ABBREVIATIONS

REFERENCE LEGEND

G8 / A502 — SECTION IDENTIFICATION, SHEET NUMBER

G8 / A502 — DETAIL IDENTIFICATION, SHEET NUMBER

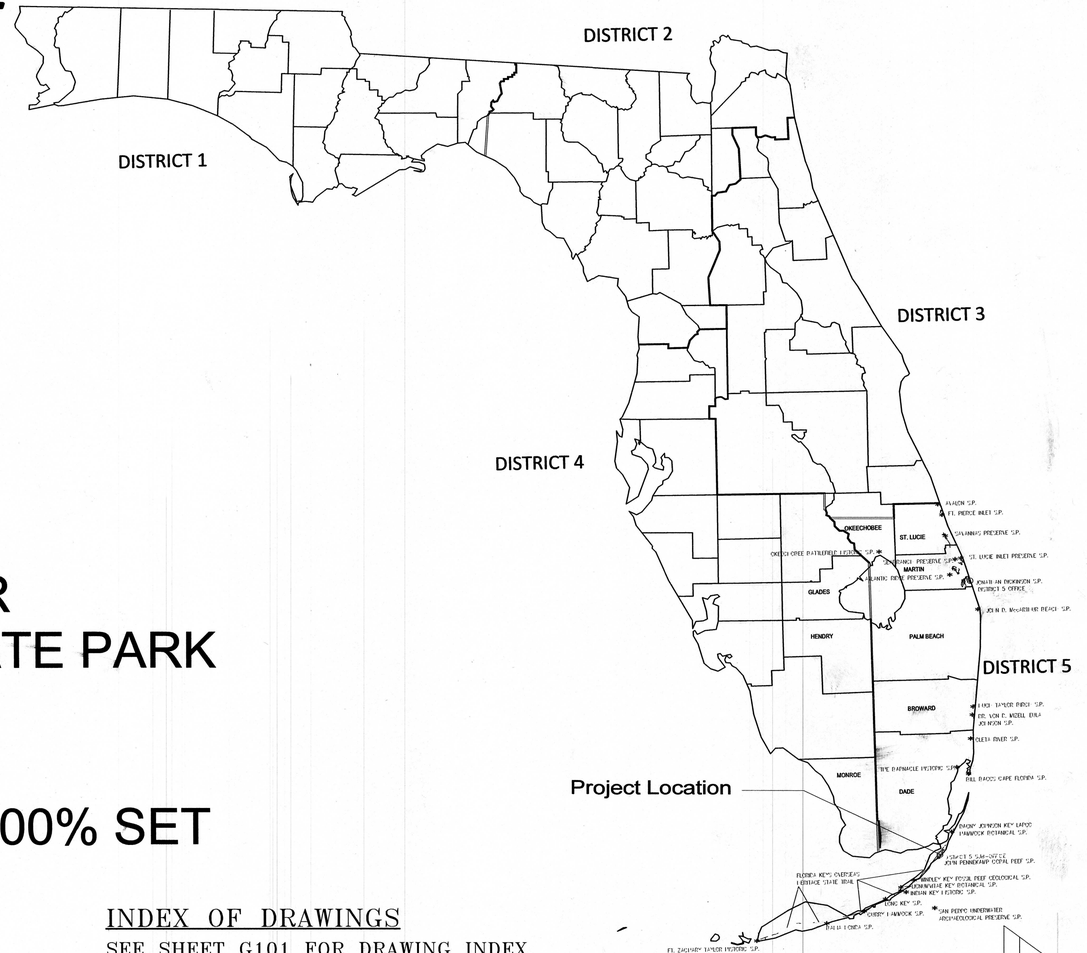
JOHN PENNEKAMP
FACILITY DESIGNATION

DISTRICT 5
MONROE COUNTY

NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

STATE PROJECT No.: CN667

CONSTRUCTION DOCUMENTATION 100% SET



APPLICABLE CODES AND DESIGN DATA

CONSTRUCTION TYPE:	TYPE IIB	TOTAL BUILDING AREA PER FLOOR:	1ST FLOOR: 15,093SF MEZZANINE: 5,526SF
OCCUPANCY CLASS:	A-3 / M	BUILDING HEIGHT:	40'
OCCUPANT LOAD:	306	REQUIRED SPRINKLER OR ALARM SYSTEM:	FULLY SPRINKLERED & ALARM
TOTAL EXITS:	6	NUMBER OF BEDROOMS:	N/A
SQ FT ALTERED AREA:	18,841SF	LEVEL OF ALTERATION:	NEW CONSTRUCTION

WALL R-VALUE = 9.8
ROOF R-VALUE = 20
FLOOR R-VALUE = NR

DESIGN LOADS (FBC-B CHAPTER 16): SEE S001

WIND LOADS (FBC-B SECTION 1609): SEE S001

CONTRACTOR GENERAL NOTES:

- ALL WORK TO BE IN ACCORDANCE WITH APPLICABLE CODES.
- WORKMANSHIP TO MEET OR EXCEED ACCEPTED STANDARDS OF RESPECTIVE TRADES.
- VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS BEFORE START OF CONSTRUCTION. NOTIFY ARCHITECT IF ANY CONFLICTS EXIST PRIOR TO COMMENCEMENT OF WORK.
- FOR ANY TYPE I OR TYPE II CONSTRUCTION PROJECTS FIRE RETARDANT TREATED WOOD (EXTERIOR OR INTERIOR GRADE) MUST BE USED IN ALL WOOD CONSTRUCTION MATERIALS.

ALL ELEVATIONS REFERENCED ARE NAVD'88. SEE CIVIL FOR CONVERSION FACTOR FOR NGVD'29.

SCOPE OF PROJECT

THE PROJECT INVOLVES THE PREPARATION OF CONSTRUCTION DOCUMENTS FOR THE NEW INTERPRETIVE CENTER AT JOHN PENNEKAMP STATE PARK. THE SCOPE INCLUDES THE ARCHITECTURAL DESIGN OF THE NEW CENTER, AS WELL AS ENGINEERING SERVICES, INTERIOR DESIGN, AND SPECIALIZED AREAS SUCH AS AQUARIUM DESIGN AND ACOUSTICS. INCLUSIVE THE DEMOLITION OF THE EXISTING VISITOR CENTER ONCE THE NEW BUILDING HAS BEEN COMPLETED AND ALL LIVING ORGANISMS HAVE BEEN SAFELY TRANSFERRED TO THE NEW FACILITY.

K2M DESIGN, INC.
DESIGNER

CN667
CONSULTANT CONTRACT No.

05/30/2025
INITIAL ISSUE DATE

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9. M MECHANICAL
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12. X AQUARIUM DESIGN
13. LSLIFE SUPPORT SYSTEMS

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JOHN PENNEKAMP
NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Division of Recreation and Parks Bureau of Design and Construction

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	X			LT102	TANK LIGHTING - CONTROL RACK LAYOUT
	X			LT200	TANK LIGHTING - FIRST FLOOR PLAN
	X			LT201	TANK LIGHTING - SECOND FLOOR PLAN
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	X	X		LS8.5	DETAILS
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X	X	X		LS9.13	DETAILS

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MONROE COUNTY
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GW K2M OCE ASSOCIATES, INC
GWO roto Kimley»Horn
ARCHITECTS

SYMBOL	REVISION	DATE

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
Architecture, Engineering, Interior Design, Facility and Management
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Key West, Florida
Miami, Florida
www.k2mdesign.com
PROF. REG. AA26001099
Building Rated Complex
Building Code Consultants
Crawford | Hollerorth | Key Largo | Key West | Monroe County | Sarasota | Tallahassee

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STATE OF FLORIDA · SCOTT C. MALONEY · 93216 · REGISTERED ARCHITECT
Scott C. Maloney
Expiration Date: 02/28/2027
CGA #: A.26001099

JOHN PENNEKAMP

Sheet Title: DRAWING INDEX

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

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GENERAL NOTES

CONTRACT DOCUMENTS & COORDINATION
1.1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS, ADDENDA, CONSTRUCTION CHANGE DIRECTIVES, CHANGE ORDERS, THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT, AND ANY OTHER MUTUALLY AGREED-UPON WRITTEN INFORMATION.
1.2. THESE DRAWINGS ARE COMPLEMENTARY AND INTERRELATED; WORK OF ANY INDIVIDUAL TRADE IS NOT NECESSARILY CONFINED TO SPECIFIC DOCUMENTS, CHAPTERS, OR LOCATIONS.
1.3. THE CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES, INCLUDING MECHANICAL, PLUMBING, ELECTRICAL, AND ARCHITECTURAL DISCIPLINES, FOR LOCATIONS AND ELEVATIONS OF EQUIPMENT, FIXTURES, AND PENETRATIONS.

COMPLIANCE & DISCREPANCIES
2.1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN EFFECT AT THE TIME THE PERMIT IS ISSUED. ANY SUSPECTED DEVIATION MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY.
2.2. IF ANY DISCREPANCIES OR INCONSISTENCIES IN THE DOCUMENTS OR ACTUAL SITE CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY USING THE ESTABLISHED "REQUEST FOR INFORMATION" PROCEDURE. WORK SHALL NOT PROCEED IN THE AFFECTED AREA UNTIL RESOLVED.
2.3. INFORMATION REGARDING EXISTING SYSTEMS, FINISHES, AND CONDITIONS SHOWN ON THESE DRAWINGS IS BASED ON INFORMATION FURNISHED TO THE ARCHITECT BY THE OWNER AND/OR PERCEIVED FIELD CONDITIONS. THE INFORMATION DOES NOT GUARANTEE EXACT CONDITIONS BEFORE WORK BEGINS. NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
2.4. THE DRAWINGS ARE SCHEMATIC IN NATURE. MODIFICATIONS IN DUCTS, PIPING, CONDUIT, AND WIRING MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
2.5. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT APPLIES TO ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

CONTRACTOR RESPONSIBILITIES
3.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCING, AND SCHEDULING.
3.2. THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING SYSTEMS AND FINISHES DESIGNATED TO REMAIN. ANY DAMAGE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, IN A MANNER ACCEPTABLE TO THE ARCHITECT.
3.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND AUTHORIZED VISITORS ON-SITE.
3.4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH THE OWNER'S SECURITY PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
3.5. THE CONTRACTOR SHALL ENSURE PROPER COORDINATION OF ALL SUBCONTRACTORS AND MAINTAIN RECORD DRAWINGS ON-SITE AT ALL TIMES.

SITE CONDITIONS & PREPARATION
4.1. THE CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH ALL SITE CONDITIONS BEFORE BEGINNING WORK.
4.2. EACH INSTALLER MUST REVIEW ALL SUBSTRATE AND SITE CONDITIONS BEFORE INSTALLATION. IF CONDITIONS COULD NEGATIVELY IMPACT INSTALLATION QUALITY, THE CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY, AND WORK SHALL NOT PROCEED UNTIL CONDITIONS ARE CORRECTED.
4.3. ALL BLOCKING AT OPENINGS, DOORS, WINDOWS, AND WALL-MOUNTED FIXTURES SHALL BE 2X FIRE-RETARDANT-TREATED (FRT) MATERIALS. BLOCKING FOR WALL-MOUNTED EQUIPMENT SHALL BE 1/2" PLYWOOD. BLOCKING IN CONTACT WITH CONCRETE OR MASONRY MUST BE PRESSURE-TREATED.

DRAWING INTERPRETATION & MEASUREMENT
5.1. DO NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT THE ARCHITECT IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
5.2. DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS.
5.3. THESE DRAWINGS DEPICT THE INTENT OF THE ARCHITECT AND ARE NOT INTENDED TO SHOW EVERY CONDITION OR DETAIL OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY ANY CONFLICTING INSTANCES, DETAILS, MATERIALS, OR METHODS DURING THE BIDDING PHASE. ONCE THE CONTRACT IS AWARDED, THE CONTRACTOR MUST ADHERE TO THE ARCHITECT'S DIRECTION IF CONFLICTS ARISE DURING CONSTRUCTION.
5.4. DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
A. TO FINISHED FACES OF EXISTING WORK.
B. TO FACE OF GYPSUM WALLBOARD IN NEW WORK.
C. TO CENTERLINE OF COLUMNS.
D. TO TOP OF FLOOR SLAB.
E. TO BOTTOM OF FINISHED CEILING.

DEBRIS REMOVAL & CLEANUP
6.1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL CONSTRUCTION AND DEMOLITION DEBRIS.
6.2. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DETAILS REGARDING DEBRIS REMOVAL, INCLUDING PATHS OF TRAVEL, STAIR AND ELEVATOR USE, WINDOW REMOVAL, AND CHUTE LOCATIONS. ANY DAMAGE CAUSED BY DEBRIS REMOVAL MUST BE REPAIRED TO ORIGINAL CONDITION OR REPLACED AT THE CONTRACTOR'S EXPENSE.

MANUFACTURER & INSTALLATION REQUIREMENTS
7.1. THE CONTRACTOR MUST FOLLOW MANUFACTURERS' SPECIFICATIONS AND INSTRUCTIONS FOR ALL MATERIALS AND SYSTEMS, INCLUDING PREPARATION, IMPLEMENTATION, AND INSTALLATION.
7.2. INSTALLATION SHALL SIGNIFY ACCEPTANCE OF CONDITIONS. IF CONDITIONS ARE FOUND TO BE INADEQUATE, INSTALLATION SHALL NOT PROCEED UNTIL CORRECTED.

LAYOUT & VERIFICATION
8.1. THE CONTRACTOR SHALL LAY OUT ALL WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING.

FINISH NOTES:
1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM THREE-COAT PAINT SYSTEM FOR EACH SUBSTRATE.
3. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.
4. ALL WALLS TO BE LEVEL 5 GWP FINISH, NO TEXTURE.

LOCATION MAP



PROJECT LOCATION ★

DRAWING APPROVALS

50% DESIGN DEVELOPMENT	SUBMITTED	12.04.2024
	APPROVED	-
DESIGN DEVELOPMENT	SUBMITTED	01.27.2025
	APPROVED	02.07.2025
CONSTRUCTION DOCUMENTS	SUBMITTED	05.15.2025
	APPROVED	-
PLANNING SUBMISSION	SUBMITTED	-
	APPROVED	-
PERMIT DOCUMENTS	SUBMITTED	-
	APPROVED	-

SYMBOLS

ROOM NAME 101A	ROOM IDENTIFICATION TAG	ROOM NAME ROOM NUMBER
X XXX	ELEVATION TAG	ELEVATION NUMBER SHEET NUMBER
X XXX	DETAIL TAG	DETAIL NUMBER SHEET NUMBER
XXX	INTERIOR ELEVATION TAG	ELEVATION NUMBER SHEET NUMBER
X XXX	SECTION TAG	SECTION NUMBER SHEET NUMBER
XXX	DOOR TAG. REFER TO DOOR SCHEDULE	
XXX	WINDOW TAG. REFER TO WINDOW SCHEDULE	
1	WALL TAG. REFER TO WALL TYPES.	
	BREAK LINE	
0' 4' 8' 16' 32'	GRAPHIC SCALE	
N	NORTH ARROW	
1 View Name 1/8" = 1'-0"	DRAWING TITLE	DETAIL # TITLE SCALE

DESIGN TEAM INFORMATION

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tel: 305.307.5846

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Maitland, FL 32751

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Al Ip, Project Manager
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AQUARIUM LIFE SUPPORT
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Mark Faulkner
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Newcastle, ME 04553

ACOUSTICS DESIGN
Newcomb & Boyd
John R. Garretson, INCE-USA
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Ste 525
Atlanta, GA 30303

CORAL NURSERY DESIGN
Mote Marine Laboratory
Lucas Skay
103800 Overseas Hwy,
Key Largo, FL 33037

COLORS LEGEND

WATER, REFER TO EXHIBITS

WATER, REFER TO EXHIBITS

SHEET NUMBERING SYSTEM

DISCIPLINE:
SERIES NUMBER
NUMBER OF DRAWINGS WITH IN SUB-SERIES

A201

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2025-030
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MONROE COUNTY PLANNING DEPT.

GWWO ARCHITECTS | K2M DESIGN | KIMLEY»HORN | roto

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN657

DESIGNER: GWWO / K2M
DRAWN BY: CVE
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
Key Largo, Florida
Key West, Florida
Maitland, Florida
www.k2mdesign.com
PROF. REG. AA26001059
Building Information Modeling
Cleveland | Indianapolis | Key Largo | Key West | Maitland | Miami | Nashville | Tallahassee | Tampa
Architecture, Engineering, Interior Design, Facility Asset Management

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Scott C. Mahoney
Expiration Date: 02/28/2027
License #: AR0001069

JOHN PENNEKAMP

Sheet Title: SYMBOLS, ABBREVIATIONS, TEAM INFO

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

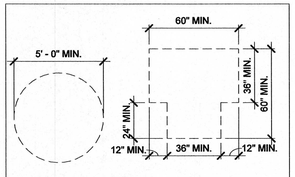
Sheet Number: G102

PLOTTED: 12/12/2025 1:07:41 PM

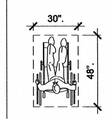
12/12/2025 1:07:41 PM
Autodesk Docs://23016 - FDEP Pennekamp/23016_FDEP Pennekamp_ARCH_K2M_R24.rvt

GENERAL NOTES:

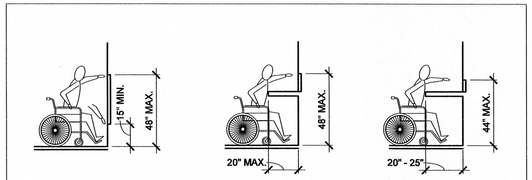
1. THESE DETAILS GOVERN IN THE EVENT OF ANY DISCREPANCIES ELSEWHERE IN THE DRAWINGS.
2. INCLUDED DETAILS MAY OR MAY NOT BE USED ON THIS PROJECT.
3. DIMENSIONS THAT ARE NOT MARKED MAXIMUM (MAX.) OR MINIMUM (MIN.) ARE ABSOLUTE, UNLESS OTHEWISE NOTED IN FOOT NOTES.
4. DRAWINGS ARE NOT TO BE SCALED.



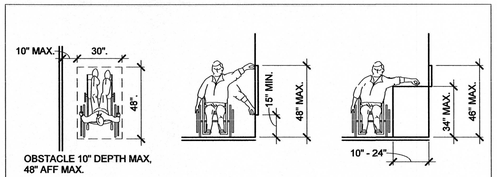
SECTION 304 TURNING SPACE
TURNING SPACE



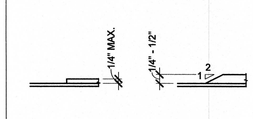
SECTION 305
CLEAR FLOOR AREA



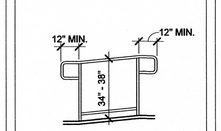
SECTION 308 REACH RANGES
FORWARD REACH RANGES



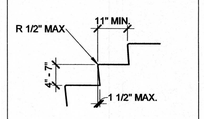
SECTION 308 REACH RANGES
SIDE REACH RANGES



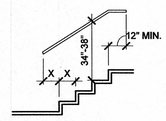
SECTION 303 CHANGES IN LEVEL
CHANGES IN LEVEL



SECTION 505 HANDRAILS
HANDRAILS AT RAMPS

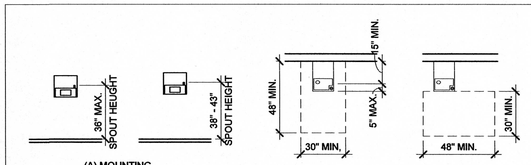


SECTION 504 STAIRWAYS
TREADS, RISERS AND NOSINGS

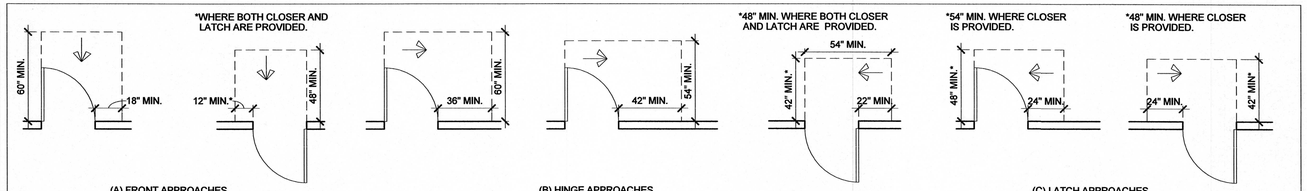


PER 505.10.3

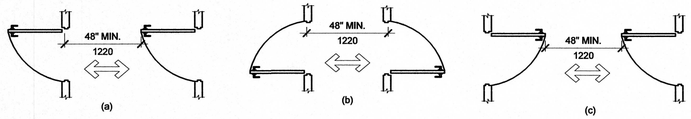
SECTION 505 HANDRAILS
HANDRAILS AT STAIRS



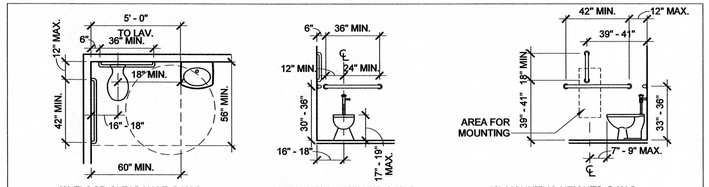
SECTION 602 DRINKING FOUNTAINS *(COMPLY WITH SECTION 305 AND 306 CLEARANCES)*
ACCESSIBLE DRINKING FOUNTAINS



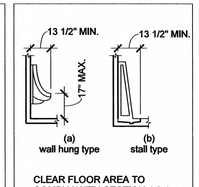
SECTION 404 DOOR, DOORWAYS, AND GATES
MANEUVERING CLEARANCE AT DOORS



SECTION 404 DOORS, DOORWAYS, AND GATES
TWO DOORS IN SERIES

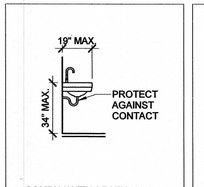


SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS
WATER CLOSET AND GRAB BAR MOUNTING HEIGHTS



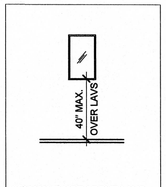
CLEAR FLOOR AREA TO COMPLY WITH SECTION 4.2.4

SECTION 605 URINALS
URINAL MOUNTING HEIGHT



COMPLY WITH SECTION 4.2.4

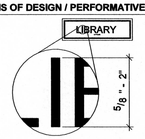
SECTION 606 LAVATORIES
LAVATORY MOUNTING HEIGHT



35" MAX IF NOT ABOVE LAVS

SECTION 603.3 FIGURE 31
MIRROR MOUNTING HEIGHT

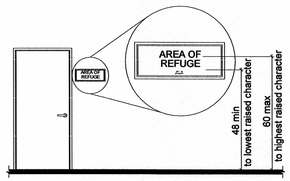
SIGNAGE - BASIS OF DESIGN / PERFORMATIVE REQUIREMENTS



NOTE(S):
1. THE UPPER CASE "I" SHALL BE USED TO DETERMINE THE ALLOWABLE HEIGHT OF ALL CHARACTERS OF A FONT.
2. FONT HEIGHT = 5/8", MIN., AND 2", MAX.

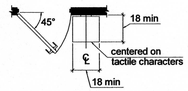
NOTES:
1. THE UPPERCASE "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS IN A FONT.
2. FONT WIDTH = THE WIDTH OF THE UPPERCASE "O" OF THE FONT SHALL BE 55%, MIN., AND 110% MAX. OF THE HEIGHT OF THE UPPERCASE "I" OF THE FONT.

703.3.6 CHARACTER WIDTH 703.3.5 CHARACTER HEIGHT



note(s):
1. measurement to the baseline of the lowest / highest
2. raised character.

703.3.10 HEIGHT OF RAISED CHARACTERS ABOVE FLOOR



NOTES:
1. WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE.
2. IF SIGN PROVIDED AT DOUBLE DOORS WITH ONE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
3. IF SIGN PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR.
4. IF NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BEON THE NEAREST ADJACENT WALL.
5. SIGNS SHALL BE LOCATED SO THAT CLEAR FLOOR AREA OF 18"-MINIMUM BY 18"-MINIMUM, CENTERED ON THE RAISED CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND THE 45-DEGREE OPEN POSITION.
6. SIGNS SHALL BE PERMITTED ON THE PUSH-SIDE OF DOORS WHIT CLOSERS AND WITHOUT-HOLD-OPEN DEVICES.

703.3.11 LOCATION OF SIGNS AT DOORS



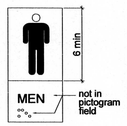
NOTES:
1. PROVIDE NON-GLARE FINISH.
2. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELDS. LIGHT-ON-DARK, OR DARK-ON-LIGHT.
3. USED TO IDENTIFY WHERE ASSISTIVE LISTENING SYSTEMS ARE AVAILABLE.

703.6.3.3 INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

SIGNAGE REQUIREMENTS

703.1 -
SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

PLEASE SEE FLORIDA DEP REQUIREMENTS FOR MORE INFORMATION.



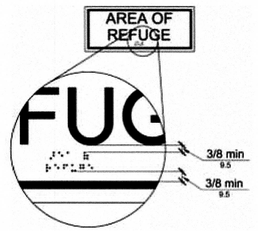
NOTES:
1. PROVIDE NON-GLARE FINISH.
2. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELDS. LIGHT-ON-DARK, OR DARK-ON-LIGHT.

703.5 PICTOGRAM FIELD



NOTES:
1. PROVIDE NON-GLARE FINISH.
2. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELDS. LIGHT-ON-DARK, OR DARK-ON-LIGHT.

703.6.3.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY



703.3.2 -
BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

SYMBOL LEGEND

36" MIN.	MINIMUM CLEAR DIMENSION.	48" MAX.	MAXIMUM DIMENSION.
33" - 36"	DIMENSION INDICATING A RANGE FROM MINIMUM TO MAXIMUM.	48".	ABSOLUTE DIMENSION.
x > 24"	DIMENSION GREATER THAN INDICATED DIMENSION.	x < 24"	DIMENSION LESS THAN INDICATED DIMENSION.
x ≥ 24"	DIMENSION GREATER THAN OR EQUAL TO INDICATED DIMENSION.	x ≤ 24"	DIMENSION LESS THAN OR EQUAL TO INDICATED DIMENSION.
	BOUNDARY OF CLEAR FLOOR SPACE OR MANEUVERING CLEARANCE.		DIRECTION OF TRAVEL OR APPROACH.
	LOCATION ZONE OF ELEMENT, CONTROL, OR FEATURE.	℄	CENTERLINE.

ADA COMPLIANCE STATEMENT

THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE TO THE 2023 FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION.

RECEIVED
2024-030
FEB 10 2026
MONROE COUNTY PLANNING DEPT.

GW K2M OCE ASSOCIATES, INC
GWO ARCHITECTS roto Kimley»Horn

SYMBOL	REVISION	DATE
1	Revision 1	10/1/2025

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: GWWO / K2M
DRAWN BY: MG
REVIEWED BY: CA/ BK
Consultant:

K2M DESIGN
Architecture, Engineering, Interior Design, Facility Asset Management
Key Largo, Florida
Fort Myers, Florida
Miami, Florida
Stuart, Florida
Weston, Florida
Manatee, Florida
www.k2mdesign.com
PROF. REG. AA26001209
Member of the American Institute of Architects
Based on Trust and Results
Member of the Florida Association of Architects

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STATE OF FLORIDA • REGISTERED ARCHITECT • Scott C. Mahoney • AR9316 • 12/12/2025

JOHN PENNEKAMP
Sheet Title: 2023 FBC, ACCESSIBILITY
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
G103

PLOTTED:
12/12/2025 1:07:42 PM

12/12/2025 1:07:42 PM
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BUILDING CODE INFORMATION

PROJECT DATA:						
PROPOSED USE:	NEW INTERPRETIVE CENTER AT JOHN PENNEKAMP CORAL REEF STATE PARK					
GROSS FLOOR AREA:	FIRST FLOOR: 15,093 SF					
	MEZZANINE: 5,526 SF					
	TOTAL: 20,619 SF					
BUILDING BASE FLOOD:	8'-0"					
BUILDING BASE FF:	10'-0"					
APPLICABLE CODES:						
2023	FLORIDA BUILDING CODE - BUILDING (FBC-B)	BUILDING				
2023	FLORIDA BUILDING CODE - MECHANICAL (FBC-M)	MECHANICAL				
2023	FLORIDA BUILDING CODE - PLUMBING (FBC-P)	PLUMBING				
2023	FLORIDA BUILDING CODE - ELECTRICAL (FBC-E)	ELECTRICAL				
2023	FLORIDA BUILDING CODE - ACCESSIBILITY (FBC-A)	ACCESSIBILITY				
2023	FLORIDA BUILDING CODE - ENERGY CONSERVATION (FBC-EC)	ENERGY CONSERVATION				
2023	FLORIDA FIRE PREVENTION CODE (FFPC)	FIRE				
2020	NFPA	FIRE				

	CODE NUMBER	CODE REQUIREMENT	PROPOSED			VARIANCE REQ'D
ENERGY CONSERVATION	PER FBC-EC CHAPTER 4					
	TABLE C402.1.3 - 1A MONROE COUNTY (PER CH. 3)	ROOF (INSULATION ABOVE DECK): R-20ci ROOF (ATTIC AND OTHER): R-38 WALLS: MASS: R-5.7ci METAL FRAMED WALLS ABOVE GRADE: R-13 + R-5ci FLOORS: NR SLAB-ON-GRADE FLOORS (UNHEATED SLAB): NR	ROOF: 20 CMU WALLS ABOVE GRADE: 9.8				NO
USE AND OCCUPANCY CLASSIFICATION:	PER FBC-B CHAPTER 3		MIXED USE			
PRIMARY	SECTION 303.1	Assembly Group A occupancy includes, among others, the use of a building or structure, or a portion thereof, for the gathering of persons for purposes such as civic, social or religious functions; recreation, food or drink consumption or awaiting transportation.	GROUP: ASSEMBLY (A-3)			N/A
SECONDARY	SECTION 309.1	Mercantile Group M occupancy includes, among others, the use of a building or structure or a portion thereof for the display and sale of merchandise, and involves stocks of goods, wares or merchandise incidental to such purposes and accessible to the public	GROUP: MERCANTILE (M)			N/A
SPECIAL REQ'S ON USE & OCCUPANCY:	PER FBC-B CHAPTER 4					
	NO SPECIAL REQ.	N/A	N/A			NO
GENERAL BUILDING HEIGHTS	PER FBC-B CHAPTER 5					
	TABLE 504.4	TYPE IIB (A-3 USE) MAX BUILDING HEIGHT IN STORIES = 3 STORIES	2 STORIES (S)			NO
	TABLE 504.3a	TYPE IIB (A-3 USE) MAX BUILDING HEIGHT IN FEET = 75'-0	40' (S)			NO
	TABLE 504.4	TYPE IIB (M USE) MAX BUILDING HEIGHT IN STORIES = 3 STORIES	2 STORY (S)			NO
	TABLE 504.3a	TYPE IIB (M USE) MAX BUILDING HEIGHT IN FEET= 75'-0"	40' (S)			NO
	SECTION 506.2	TYPE IIB (A-3 USE) ALLOWABLE BUILDING AREA = 38,000 SF	15,093 SF (S)			NO
		TYPE IIB (M USE) ALLOWABLE BUILDING AREA= 50,000 SF	5,526 SF (S)			NO
	TABLE 508.4	REQUIRED SEPARATION OF OCCUPANCIES: A-3 & M = 1HR	1 HR FIRE RATING SEPERATION PROVIDED			NO
TYPES OF CONSTRUCTION	PER FBC-B CHAPTER 6					
	SECTION 602.2	TYPE IIB - NONCOMBUSTIBLE MATERIALS	TYPE IIB - NON COMBUSTIBLE MATERIALS			NO
	TABLE 601	PRIMARY STRUCTURAL FRAMING = 0 HR FIRE RATING	PRIMARY STRUCTURAL FRAMING = 0 HR FIRE RATING			NO
	TABLE 601	BEARING WALLS = 0 HR FIRE RATING	BEARING WALLS = 0 HR FIRE RATING			NO
	TABLE 602	NONBEARING WALLS/PARTITIONS EXTERIOR (X > 30')	EXTERIOR WALLS NOT REQUIRED TO BE FIRE RATED			NO
	TABLE 601	FLOOR CONSTRUCTION & SECONDARY MEMBERS = 0 HR FIRE RATING	FLOOR AND SECONDARY MEMBERS - POURED CONCRETE IN METAL PAN (1.5) HR FIRE RATING			NO
	TABLE 601	ROOF CONSTRUCTION & SECONDARY MEMBERS = 0 HR FIRE RATING	ROOF AND SECONDARY MEMBERS - POURED CONCRETE IN METAL PAN (1.5) HR FIRE RATING			NO
FIRE AND SMOKE PROTECTION	PER FBC-B CHAPTER 7					
	TABLE 705.8	FIRE SEPARATION DISTANCE > 30' = NO LIMIT FOR UNPROTECTED, NONSPRINKLERED	SEPERATION OF ADJACENT BUILDINGS ARE GREATER THAN 30'			NO
	SECTION 707.5	FIRE BARRIER TO EXTEND FROM T.O. FOUNDATION TO UNDERSEIDE OF ROOF DECK	FIRE BARRIER EXTENDS FROM GROUND FLOOR SLAB TO UNDERSIDE OF ROOF DECK			NO
	SECTION 713.4	SHAFT ENCLOSURES (FIRE BARRIER) TO MATCH FIRE RATING OF FLOOR = POURED CONCRETE IN METAL PAN (1.5) HR FIRE RATING	NO SHAFTS			NO
	SECTION 718.4.3	DRAFTSTOPPING BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH HORIZONTAL AREA DOES NOT EXCEED 3,000 SF	DRAFTSTOPPING PROVIDED			NO
INTERIOR FINISHES	PER FBC-B CHAPTER 8					
	TABLE 803.11 - WALL/CEILING FINISH REQ'S	A-3 (S) INTERIOR EXIT STAIRWAYS/PASSAGEWAYS = (B) FINISH REQUIREMENTS	(B) FINISHES SPECIFIED			NO
		A-3 (S) CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS = (B) FINISH REQUIREMENTS	(B) FINISHES SPECIFIED			NO
		A-3 (S) ROOMS AND ENCLOSED SPACES = (C) FINISH REQUIREMENTS	(C) FINISHES SPECIFIED			NO
		M (S) INTERIOR EXIT STAIRWAYS/PASSAGEWAYS = (B) FINISH REQUIREMENTS	(B) FINISHES SPECIFIED			
		M (S) CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS = (C) FINISH REQUIREMENTS	(C) FINISHES SPECIFIED			
		M (S) ROOMS AND ENCLOSED SPACES = (C) FINISH REQUIREMENTS	(C) FINISHES SPECIFIED			NO
FIRE PROTECTION SYSTEMS	PER FBC-B CHAPTER 9					
	SECTION 903.2.3 (GROUP A-3)	REQUIRED WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS: 1. FIRE AREA EXCEEDS 12,000 SF 2. FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE 3. FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE	FIRE SUPRESSION INCLUDED: 1) AREA OF A-3 USE = 16,455 SF				NO
	SECTION 903.2.1.3 (GROUP M)	REQUIRED WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS: 1) FIRE AREA EXCEEDS 12,000 SF 2) FIRE AREA IS LOCATED MORE THAN THREE STORIES ABOVE GRADE PLANE 3) COMBINED AREA OF GROUP M ON ALL FLOORS, INCLUDING MEZZANINES, EXCEEDS 24,000 SF 4) COMBINED M OCCUPANCY USED FOR DISPLAY AND SALE OF UPHOLSTERED FURNITURE OR MATTRESSES EXCEEDS 5,000 SF	FIRE SUPRESSION INCLUDED				NO
	SECTION 907.2	AN APPROVED FIRE ALARM SHALL BE PROVIDED IN NEW BUILDINGS	AN APPROVED FIRE ALARM IS SPECIFIED				NO
MEANS OF EGRESS	PER FBC-B CHAPTER 10 (SEE LIFE SAFETY PLAN)					
	TABLE 1004.1.2	SPACE FUNCTION	OCCUPANT LOAD FACTOR	SQ.FT.	OCCUPANT LOAD	
		FIRST FLOOR:				
		ASSEMBLY UNCONCENTRATED (TABLES & CHAIRS) (NET)	15	2016	134	
		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT RM (GROSS)	300	8792	29	
		EXHIBIT GALLERY AND MUSEUM (NET)	30	2771	92	
		MERCANTILE (GROSS)	60	2380	40	
			TOTAL:	15959	297	

	SECTION 1005.3.1 STAIRWAYS	.3" PER OCCUPANT= (.3*14) = 4.2" REQUIRED .3" PER OCCUPANT= (.3*309) = 93" REQUIRED	(1) 147"; (1) 108"; (1) 60"; (1) 54" WIDE STAIRWAY(S) PROVIDED		NO
	SECTION 1005.3.2 OTHER EGRESS COMPONENTS (A-3)	.2" PER OCCUPANT = (.2*265) = 58.3" REQUIRED .2" PER OCCUPANT = (.2*136) = 30" REQUIRED (MP ROOM ONLY)	72" CLEAR WIDTH PROVIDED 64" CLEAR WIDTH PROVIDED		NO
	SECTION 1005.3.2 OTHER EGRESS COMPONENTS (M)	.2" PER OCCUPANT = (.2*44) = 8.8" REQUIRED	72" CLEAR WIDTH PROVIDED		NO
	TABLE 1006.3.1	MIN. NUMBER OF EXITS 1-500 OCUPANTS = 2 MINIMUM NUMBER OF EXITS FROM STORY	6 EXITS PROVIDED		NO
	SECTION 1007.1.1 TWO EXITS	TWO EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/2 OF THE LENGTH OF MAXIMUM OVERALL DIAGONAL DIMENSION OF BUILDING OR AREA.	M STORAGE EXITS ARE FURTHER THAN 1/2 OF THE LENGTH OF THE MAXIMUM DIAGONAL. SEE LIFE SAFETY PLAN		NO
	TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE	OCCUPANCY A & M W/ SPRINKLER SYSTEM = 250 FEET	EXIT ACCESS DISTANCE: SEE LIFE SAFETY PLAN <200		NO
	TABLE 1020.1 CORRIDOR FIRE-RESISTANCE RATING	(A) & (M) OCCUPANCY W/ GREATER THAN 30 OCCUPANTS & W/ SPRINKLER SYSTEM = 0 HR REQUIRED FIRE RATING CORRIDOR	(1) HOUR FIRE RESISTANCE RATING PROVIDED FOR CORRIDOR WALLS		NO
	TABLE 1020.2 MINIMUM CORRIDOR WIDTH	MINIMUM CORRIDOR WIDTH = 44"	CORRIDOR WIDTH PROVIDED = 64"		NO
	SECTION 1020.4 DEAD ENDS	NO DEAD END IN CORRIDORS MORE THAN 20 FEET IN LENGTH	N/A - NO DEAD END CORRIDORS WITHIN DESIGN		NO
PLUMBING FIXTURES	PER FBC-P CHAPTER 4				
	TABLE 403.1	FIRST FLOOR A-3: (264 OCC. = 132 PER SEX) WC M: 1 PER 125 = 2 REQUIRED WC F: 1 PER 65 = 3 REQUIRED LAV M/F: 1 PER 200 = 2 REQUIRED EA. SEX 1 DRINKING FOUNTAIN PER 500 = 1 REQUIRED 1 SERVICE SINK REQUIRED FIRST FLOOR MERCANTILE: (44 OCC. = 22 PER SEX) WC M/F: 1 PER 500 = 1 REQUIRED EA. SEX LAV M/F: 1 PER 750 = 1 REQUIRED EA. SEX 1 DRINKING FOUNTAIN PER 1000 = 1 REQUIRED 1 SERVICE SINK REQUIRED TOTAL REQUIRED: WC M: 3 REQUIRED WC F: 4 REQUIRED URINALS: PER SECTION 424.2 = NO MORE THAN 67% OF WC LAV M/F: 2 REQUIRED EA. SEX 2 DRINKING FOUNTAINS REQUIRED 2 SERVICE SINK REQUIRED	TOTAL PROVIDED: WC M: 2 PROVIDED URINALS M: 1 PROVIDED WC F: 4 PROVIDED LAV M/F: 3 PROVIDED EA. SEX FAMILY RESTROOMS: 1 PROVIDED WITH 1 LAVS 2 DRINKING FOUNTAINS PROVIDED 1 SERVICE SINK PROVIDED		NO

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SYMBOL	REVISION	DATE

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Division of Recreation and Parks
Bureau of Design and Construction
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ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GW/WO / K2M
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REGISTERED ARCHITECT
Scott C. Maloney (Owner) AR93181
Expiration Date: 02/28/2027
CA: #AA26001059

JOHN PENNEKAMP
Sheet Title: CODE STUDY

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
G104

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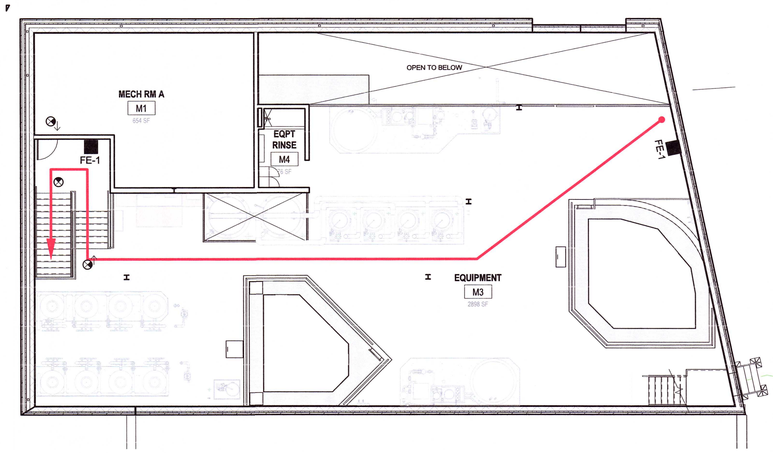

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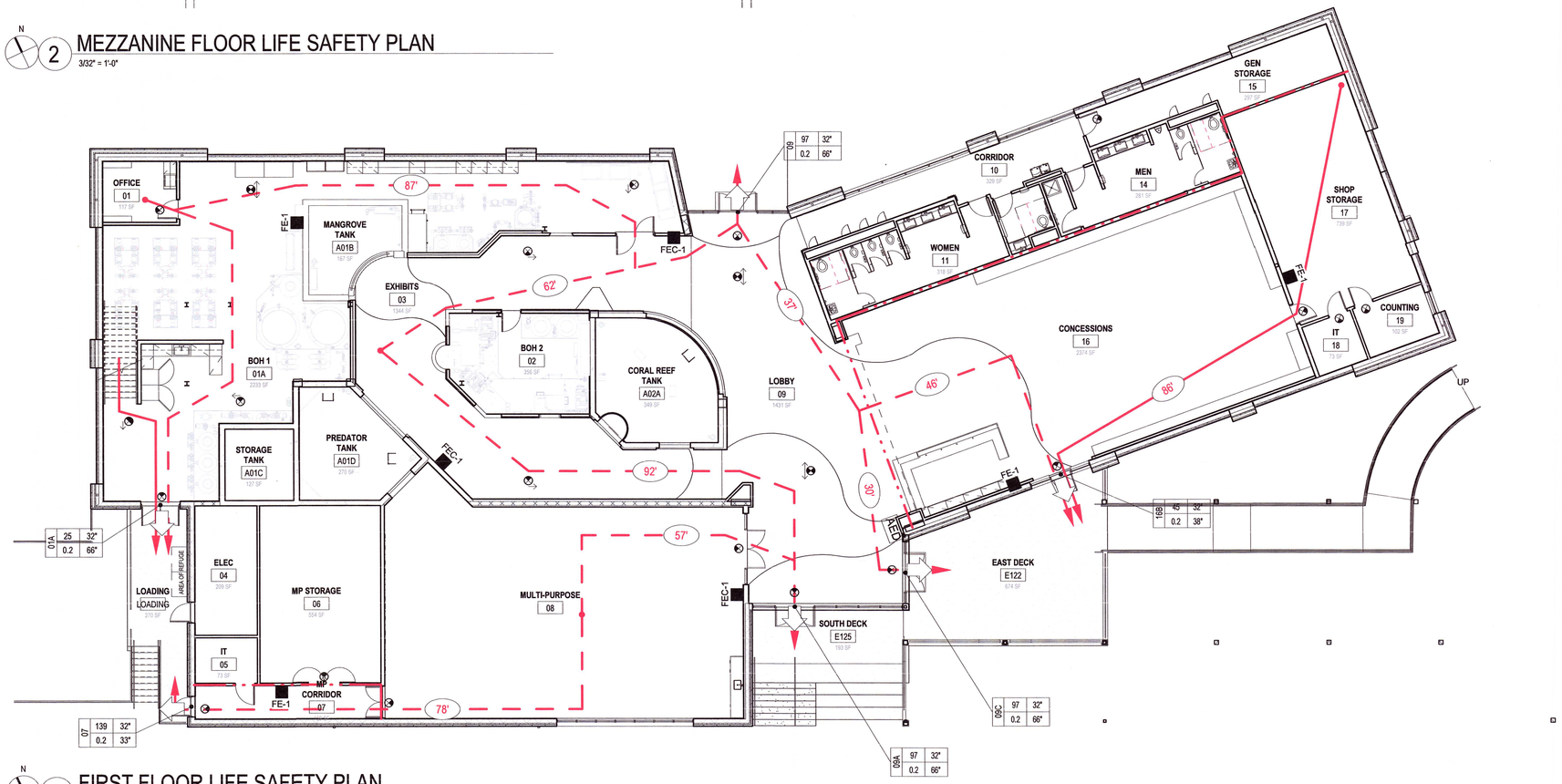
2 MEZZANINE FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"

OCCUPANT LOAD

Number	Name	Area	Use Group	Allowable per Occupant	Occupant Load	Comments
FIRST FLOOR						
01	OFFICE	117 SF	M	300 SF	1	CLG TYPE 1
01A	BOH 1	2233 SF	A-3	300 SF	8	EXPOSED CEILING
02	BOH 2	356 SF	A-3	300 SF	2	EXPOSED CEILING
03	EXHIBITS	1344 SF	A-3	30 SF	45	EXPOSED CEILING
04	ELEC	209 SF	A-3	300 SF	1	EXPOSED CEILING
05	IT	73 SF	A-3	300 SF	1	EXPOSED CEILING
06	MP STORAGE	554 SF	A-3	300 SF	2	EXPOSED CEILING
08	MULTI-PURPOSE	2016 SF	A-3	15 SF	135	CLG TYPE 1
09	LOBBY	1431 SF	A-3	30 SF	48	CLG TYPE 5
15	GEN STORAGE	297 SF	A-3	300 SF	1	EXPOSED CEILING
16	CONCESSIONS	2374 SF	M	60 SF	40	CLG TYPE 4,5, & 6
17	SHOP STORAGE	739 SF	M	300 SF	3	EXPOSED CEILING
18	IT	73 SF	M	300 SF	1	EXPOSED CEILING
19	COUNTING	102 SF	M	300 SF	1	CLG TYPE 1
A01B	MANGROVE TANK	167 SF	A-3		0	CLG TYPE 3.2
A01C	STORAGE TANK	127 SF	A-3		0	
A01D	PREDATOR TANK	270 SF	A-3		0	
A02A	CORAL REEF TANK	349 SF	A-3		0	
					289	
MEZZANINE FLOOR						
M1	MECH RM A	654 SF	A-3	300 SF	3	EXPOSED CEILING
M2	STAIR A	210 SF	A-3	300 SF	1	EXPOSED CEILING
M3	EQUIPMENT	2898 SF	A-3	300 SF	10	EXPOSED CEILING
M4	EQPT RINSE	76 SF	A-3	300 SF	1	EXPOSED CEILING
M5	MECH RM B	199 SF	M	300 SF	1	EXPOSED CEILING
					16	
TOTAL					305	



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1 FIRST FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"

LIFE SAFETY PLAN LEGEND:

- AED — AUTOMATED EXTERNAL DEFIBRILLATOR PROVIDED AND INSTALLED BY OWNER.
- EXIT SIGN
- 155' — TRAVEL DISTANCE
- 155' — COMMON PATH
- 1 HOUR FIRE BARRIER
- FE-1 — MP SERIES DRY CHEMICAL EXTINGUISHER ON MOUNTING BRACKET
- FEC-1 — INTERIOR FIRE EXTINGUISHER CABINET WND MP SERIES DRY CHEMICAL EXTINGUISHER RECESSED IN WALL AT 4'-8" A.F.F. TO TOP OF CABINET.
- BUILDING EXIT
- EMERGENCY LIGHT, REFER TO ELECTRICAL
- NUMBER OF OCCUPANTS
- DOOR XX XX — TOTAL WIDTH REQUIRED
- DOOR XX XX — TOTAL WIDTH PROVIDED
- MULTIPLIER PER 1005.1

GENERAL NOTES

1. FINAL LOCATION, TYPE, AND QUANTITY OF FIRE EXTINGUISHERS TO BE COORDINATED WITH FIRE INSPECTOR.
2. REFER TO ELECTRICAL DRAWINGS FOR FIRE ALARM BASIS OF DESIGN REQUIREMENTS AND LOCATIONS OF STROBES, HORNS, AND EXIT SIGNAGE.

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K2M DESIGN
Architecture, Engineering, Interiors, Planning, Facility Asset Management

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DRAWN BY: CVE
REVIEWED BY: CA/ BK
Consultant:

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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. PILE No.: 0000000
STATE PROJECT No.: CN667

JOHN PENNEKAMP
LIFE SAFETY PLAN
Sheet Title:
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
G106

PLOTTED:
12/12/2025 1:07:51 PM

12/12/2025 1:07:51 PM
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23016 Pennekamp Interpretive Center General Keynote Legend	
Key Value	Keynote Text
03.01	3-1/2" CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING. SEE STRUCTURAL DRAWINGS. (033100)
03.02	4" REINFORCED CAST-IN-PLACE CONCRETE SLAB. SEE STRUCTURAL DRAWINGS. (033100)
03.03	12" REINFORCED CAST-IN-PLACE CONCRETE WALL. SEE STRUCTURAL DRAWINGS. (033100)
03.05	CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
03.15	CONCRETE FLOOR FINISH - COORDINATE W/ I100 FLOOR FINISH INFORMATION
03.17	8" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
03.18	12" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
04.03	BOND BEAM, SEE STRUCTURAL FOR DETAILS
04.04	MASONRY TIE, BOD: Tie-HVR 195VB Anchor System for Rubble Stone
05.01	STEEL DECKING (053100)
05.02	1.5 WR 22 METAL ROOF DECK (053100)
05.03	COLD-FORMED STEEL FRAMING, 6" (054100)
05.04	7/8" HAT CHANNEL
05.05	STRUCTURAL STEEL FRAMING (REFER TO STRUCTURAL FOR MORE INFORMATION)
05.06	WELD PLATE IN CONCRETE WALL
05.07	STRUCTURAL STEEL ANGLE, SEE STRUCTURAL
05.08	LATERAL ADJUSTING STEEL PLATE
05.09	COLD-FORMED STEEL FRAMING TRACK
05.10	JOIST, TOP CORD EXTENSION
05.11	COLD-FORMED STEEL FRAMING, 8" (054000)
05.13	UNISTRUT BRACING
05.14	
05.15	
05.16	
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.02	5/8" PT PLYWOOD SHEATHING (061600)
06.04	WOOD BLOCKING AS REQUIRED
06.06	BACK OF HOUSE PLATFORMS W/ GUARDRAILS, FRAMING, & LADDER
06.09	ARCHITECTURAL WOOD CASEGOODS, SEE I-SHEETS.
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07 92 00.A1	
07 92 00.B1	
07.02	2" RIGID INSULATION (072100)
07.03	3" RIGID INSULATION (072100)
07.04	MODIFIED BITUMINOUS MEMBRANE ROOFING (075200)
07.05	STANDING SEAM METAL ROOF (076100)
07.06	BATT INSULATION, 5 1/2" UNO (OR MAX THICKNESS FOR LOCATION)
07.07	FLASHING
07.08	SEALANT, COLOR TO MATCH ADJACENT OPENING INFILL SURFACE.
07.09	BACKER ROD & SEALANT
07.10	COVER BOARD
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.13	UHPC ARCHITECTURAL PANEL, BOD: TAKTL
07.14	GRANULAR FILL, 4" UNO
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.16	TRANSITION MEMBRANE
07.17	SS CONTINUOUS METAL FLASHING
07.18	4" MIN. BLACK METAL EDGING
07.19	BELOW-GRADE WATERPROOFING
07.20	DRIP EDGE
07.21	SS DRIP EDGE W/ CONT. METAL CLEAT
07.23	METAL COPING
07.27	JOINT SEALANT AND BACKER ROD
07.28	SELF-ADHERING SHEET MEMBRANE UNDERLAYMENT
07.29	METAL SOFFIT, MATCH ROOF FINISH. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
07.31	1" RIGID INSULATION
07.32	IN-WALL DOWNSPOUT SYSTEM, CONNECTED FROM INSET ROOF DRAIN TO UNDERGROUND SYSTEM, SEE CIVIL. GALVANIZED OR PRE-FINISHED MATERIAL TO BE USED. INSULATE PIPE TO PREVENT CONDENSATION.
08 43 00.A3	
08.01	STOREFRONT ASSEMBLY, BASIS OF DESIGN: KAWNEER VG451T, CENTER SET GLAZING
08.02	EXTERIOR GLAZING DESIGN: VITRO VISTACOOL (2) PACIFICA GLASS + SOLARBAN 90 (3)
08.07	HOLLOW METAL DOOR FRAME, PAINTED.
08.08	OVERHEAD DOOR ASSEMBLY
09.01	DIGITAL VINYL MURAL GRAPHICS PROVIDED BY ROTO TO TERMINATE INTO CONCRETE WALL MATERIAL WITH A FINISHED EDGE. MURAL GRAPHIC DETAILS TO BE COORDINATED WITH ROTO, ARCHITECT AND DESIGNER PRIOR TO PURCHASING.
09.02	REFER TO ELECTRICAL PLANS FOR POWER COORDINATION FOR INTERACTIVE EXHIBITS.
09.04	PROVIDE TRANSITION STRIP, SEE FINISH SCHEDULE FOR DETAILS.
09.05	BRUSHED STAINLESS STEEL SCHLUTER STRIP TO BE PROVIDED, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
09.06	DOOR TRIM TO BE PAINTED (PT-07) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
09.07	REFER TO ENLARGED RCP PLANS FOR ACOUSTICAL SPECIALITY CEILING PANEL LOCATION COORDINATION.
09.08	EXPOSED CONCRETE COLUMNS AND CONCRETE WALLS TO BE SANDED & SEALED FOR A SMOOTH SURFACE APPLICATION.
09.10	ALL OUTLETS TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
09.11	GC TO PROVIDE PLYWOOD BLOCKING BEHIND ALL SPECIALITY EQUIPMENT FOR ADDITIONAL SUPPORT. GC TO REFER TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION METHODS.
09.13	FINISHED END PANEL.
09.14	CUSTOM GRAPHICS TO BE COORDINATED WITH THIRD-PARTY VENDORS. GC TO PROVIDE FRT BLOCKING FOR ADDITIONAL SUPPORT AND PROPER WALL PREPARATION FOR PROPER INSTALLATION METHODS. COORDINATION WITH GC, OWNER, DESIGNER AND ROTO ON PRODUCTION OF GRAPHIC MURALS. OVERALL WALL PAINT TO BE APPLIED AND GRAPHICS TO BE APPLIED OVER PAINTED SURFACE. REFER TO GRAPHICS VENDOR FOR PREPARATION OF WALL AND INSTALLATION RECOMMENDATIONS.
09.16	GC TO ENSURE THAT ALL OPERABLE PARTS OF TOILET ACCESSORIES FALL WITHIN ADA REACH RANGE GUIDELINES.
09.17	DOOR TRIM TO BE PAINTED (PT-08) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
09.18	WINDOW TREATMENTS TO BE PROVIDED BY G.C. ROLLER SHADES SPECIFICATION LISTED WITHIN THE FINISH SCHEDULE FOR DETAILS.
09.19	CORNER GUARDS TO BE PROVIDED; REFER TO FINISH SCHEDULE FOR DETAILS.
09.20	GC TO PROVIDE FRT PLYWOOD BLOCKING BEHIND ALL WALL MOUNTED SHELVING UNIT.
09.21	ALL MILLWORK CABINETRY TO INCLUDE LOCKABLE HARDWARE.
09.22	REFER TO M.E.P. CONSTRUCTION DOCUMENTATION FOR PLUMBING AND ELECTRICAL COORDINATION. REFER TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION. IF NECESSARY, PROVIDE WATERLINE.
09.24	B.O.H. PLUMBING FIXTURES AT CASEWORK INCLUDED:(S-01) DROP IN SINK & (P-02) FAUCET.
09.25	<OPEN>

23016 Pennekamp Interpretive Center General Keynote Legend	
Key Value	Keynote Text
09.26	DOOR TRIM TO BE PAINTED (PT-09) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
09.27	RESTROOM PLUMBING FIXTURES AT CASEWORK INCLUDED:(L-01) SQUARE UNDER MOUNT SINK THAT INCLUDES AUTOMATED FAUCET AND SOAP DISPENSER.
09.28	ACCENT WALL TILE TO DIE INTO THE INSIDE CORNER AND FINISHED WITH BRUSHED STAINLESS STEEL SCHULTER STRIP FOR FINISHED EXECUTION.
09.29	ACCESS PANELS TO BE FINISHED TO MATCH ADJACENT WALL FINISH FOR AN CONCEALED DESIGN INTENTION.
09.30	WALL APPLIED VERTICAL TRIM TO WRAP CORNER AND CONTINUE WOODEN TRIM DETAILS. WALL TO BE PAINTED WITH ADJACENT WALL PAINT PRIOR TO WOODEN TRIM PIECES APPLIED.
09.31	GC TO PROVIDE FRT PLYWOOD BLOCKING BEHIND GYPSUM WALL FOR ADDITIONAL SUPPORT FOR INTERACTIVE "LIVING" GALLERY ART WALL.
09.32	RESTROOM TILE WALL CORNERS - ALL OPEN/ VISIBLE CORNERS TO OBTAIN BRUSHED STAINLESS STEEL SCHLUTER STRIP FOR CORNER PROTECTION, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
09.33	ALL MIRRORS TO BE SHATTER-PROOF, TEMPERED WITH 2" WOODEN FRAME; FRAME CORNERS TO BE MITERED AND PAINTED PT-9; GC TO COORDINATE WITH OWNER & DESIGNER FOR FINAL APPROVAL. PROVIDE BLOCKING BEHIND MIRROR PAINT TO MATCH WALL FINISH. COORDINATE BLOCKING THICKNESS WITH TILE THICKNESS, SO THAT MIRROR HANGS FLUSH WITH MIRROR AND TILES.
09.35	REFER TO CONCESSIONS ELEVATION AND MILLWORK SECTIONS FOR ALL COORDINATION CONSULTATION. POWER TO BE COORDINATED AS SHOWN IN ELECTRICAL DRAWINGS.
09.36	CEMENTITIOUS WOOD FIBER CEILINGS, BOD: TECTUM DIRECT-ATTACHED ACOUSTICAL INTERIOR PANELS, 2". SEE FINISH SCHEDULE FOR COLOR.
09.39	GRID SUSPENSION SYSTEM
09.40	PERFORATED METAL PANEL CEILING SYSTEM, SEE RCPs
09.41	FRP PANEL, SEE FINISH SCHEDULE
09.42	REFER TO AQUARIUM DESIGN DRAWINGS FOR DETAILS.
09.43	EXHIBIT SPACE - ALL M.E.P. TO BE PAINTED (PT-10), ALL INTERIORS WALLS ABOVE MURALS TO BE PAINTED (PT-11) AT THE 11'-0" AFF. ALL CEILINGS TO BE PAINTED (PT-10) WITH (ACT-06) TECTUM PANEL SYSTEM FOR ACOUSTICAL SOUND ABSORBTION.
09.44	FLOOR FINISH INDICATED ON INTERIORS FINISH FLOOR PLANS AND ENLARGED FLOOR PLANS TO DIE INTO THE EDGE CORNER OF THE ADJACENT ARCHITECTURAL ELEMENT.
09.45	DROP DOWN DRAIN PIPE COVER TO MATCH ADJACENT METAL SOFFIT. SEE RCP FOR LAYOUT. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
09.50	SUPPORTS FOR PLASTER & GYPSUM BOARD (092200)
09.51	2-1/2" METAL STUD FRAMING (092200)
09.52	3-5/8" METAL STUD FRAMING (092200)
09.53	1/2" STUCCO, PAINTED. COLOR TBS BY ARCHITECT. (092400)
09.54	1/2" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.56	7/8" FURRING CHANNEL (092900)
09.57	ACOUSTIC CEILING TILE, 24"X24"3/4" SQUARE EDGE (095100)
09.58	ACOUSTIC CEILING TILE, 48"X24"3/4" SQUARE EDGE (095100)
09.60	CEILING ASSEMBLY, SUSPENSION WIRE (095100)
10.05	LOCKER ROOM BENCH, SEE EQUIPMENT INFO. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER FLOOR BOLTING INSTALLATION METHOD FOR LOCKER ROOM BENCH.
10.06	PRE-ENGINEERED ALUMINUM PERGOLA SYSTEM, BOD: KNOTWOOD, COLOR TO MATCH MANUF. STANDARD COLOR SELECTIONS.
12.01	ROLLER SHADE ENCLOSURE, BOD: MECHO SHADES, DOUBLE BLIND SYSTEM, CEILING JAMB MOUNTED. SEE SPECS.
12.02	STACKABLE CHAIRS, BY OTHERS.
12.03	ACOUSTIC PANELS, SEE I-SHEETS.
22.01	ROOF DRAIN, REFER TO PLUMBING SHEETS.
22.02	OVERFLOW ROOF DRAIN, REFER TO PLUMBING SHEETS.
22.03	SCUPPER & DOWNSPOUT TO DOWNSPOUT BOOT, COLOR TO MATCH ROOF.
22.04	OVERFLOW SCUPPER, COLOR TO MATCH ROOF, COPING.
26.01	BACKLIGHTING AT PERFORATED PANEL, SEE ELECTRICAL SHEETS
817	

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: GWWO / K2M
DRAWN BY: MG
REVIEWED BY: CA/ BK
Consultant:

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN657

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Interior Design,
Facility and Management

STATE OF FLORIDA · REGISTERED · SCOTT C. MALONEY · AR93961

Scott C. Maloney, AR93961
Expiration Date: 02/27/2026
EDA Inc. # AA26001059

JOHN PENNEKAMP

Sheet Title: KEYNOTES REFERENCE SHEET

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
G107

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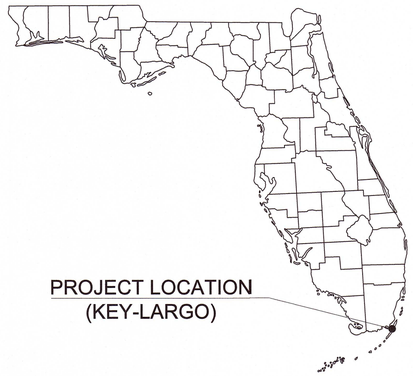

SITE DEVELOPMENT PLANS

FOR

JOHN PENNEKAMP STATE PARK

LOCATED IN

KEY LARGO, FLORIDA
SECTION 23, TOWNSHIP 61, RANGE 39

102601 OVERSEAS HWY, KEY LARGO



VICINITY
1" = 250'

PROJECT TEAM

OWNER/DEVELOPER
GARLAND SANDEL
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
(850) 245-2798

SURVEYOR
JAMES JANISSE
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ALBERT FASANO, PE
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WEST PALM BEACH, FLORIDA 33406
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KEY LARGO, FL 33037
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ENGINEERING DIVISION
MONROE COUNTY ENGINEERING SERVICES
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(305) 852-7108

ELECTRIC PROVIDER
FLORIDA KEYS ELECTRIC COOPERATIVE
3421 OVERSEAS HWY,
MARATHON, FL 33050
(305) 852-2431

BUILDING DIVISION
MONROE COUNTY BUILDING DEPARTMENT
102050 OVERSEAS HWY
KEY LARGO, FL 33037
(305) 453-8800

LEGAL DESCRIPTION:

23 61 39 NW1/4 OF NW1/4 LESS WLY 50 FT OF TR 12 ISLAND OF KEY LARGO PB 4-130 OR211-563 OR231-173 OR2483-2301

23 61 39 ISLAND OF KEY LARGO PB 4-130 PT GOV LOT 1 OR TR 1 OR283-100-104 OR327-583/605

PREPARED BY:
Kimley»Horn

Sheet List Table

Sheet Number	Sheet Title
C-000	COVER SHEET
S-001	SURVEY
S-002	SURVEY
S-003	SURVEY
S-004	SURVEY
C-001	GENERAL NOTES
C-002	SWPPP – PHASE 1
C-003	DEMOLITION PLAN
C-004	OFF-SITE IMPROVEMENTS
C-005	SWPPP – PHASE 2
C-006	SWPPP NOTES
C-050	DEMOLITION AND EROSION CONTROL DETAILS
C-100	SITE PLAN
C-101	EXISTING OVERALL PARK PLAN
C-102	PROPOSED OVERALL PARK PLAN
C-150	SITE PLAN DETAILS
C-200	PAVING AND GRADING PLAN
C-201	DRAINAGE PLAN
C-250	PAVING, GRADING, AND DRAINAGE DETAILS
C-251	PAVING, GRADING, AND DRAINAGE DETAILS
C-300	UTILITY PLAN
C-301	OFF-SITE UTILITY PLAN
C-302	UTILITY CROSSINGS
C-303	UTILITY DETAIL
C-304	UTILITY DETAIL
E-000	ELECTRICAL SYMBOLS
E-010	ELECTRICAL GENERAL NOTES
E-020	ELECTRICAL SPECIFICATIONS
E-100	ELECTRICAL SITE PLAN

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THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: AJ
Consultant:

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ALBERT J. FASANO, P.E. LICENSE No. 73531 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 12/XX/2025

Sheet Title: COVER SHEET
Project Title: JOHN PENEKAMP STATE PARK
Sheet Number: C-000

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-000 COVER SHEET December 30, 2025 11:30:49am K:\VRB_LDEV\john pennekamp state park\CAD\plansheets\C-000 COVER SHEET.dwg

NORTH

GRAPHIC SCALE IN FEET
40 0 20 40 80
1" = 40' @ 24X36

MATCH LINE PHASE 2

VICINITY MAP

NOT TO SCALE



BENCH MARK LIST

DATUM IS NAVD '88, USING GEOID 18, BASED ON GPS OBSERVATIONS.

BM #800 IR WITH CAP "LB7979" SET IN MEDIAN BETWEEN STOP AND NO LARGE VEHICLES PERMITTED SIGN ON SOUTH SIDE OF ENTRANCE DRIVE

- ELEV.= 3.48'

BM #801 IR WITH CAP "LB7979" SET IN CENTER MEDIAN OF ENTRANCE DRIVE

- ELEV.= 4.98'

BM #802 IR WITH CAP "LB7979" SET ON NORTH SIDE OF ENTRANCE DRIVE BETWEEN THE LIFT STATION AND THE EDGE OF PAVEMENT

- ELEV.= 3.94'

BM #803 IR WITH CAP "LB7979" SET AT THE NORTHEASTERN CORNER OF THE PARKING LOT BEHIND THE ROPE AND POST FENCE

- ELEV.= 2.91'

BM #804 IR WITH CAP "LB7979" SET IN THE MEDIAN ON THE SOUTHEASTERN SIDE OF THE PARKING LOT 10' EAST OF THE SIDEWALK

- ELEV.= 2.60'

BM #805 IR WITH CAP "LB7979" SET ON THE SOUTH SIDE OF THE ENTRANCE DRIVE BETWEEN THE EDGE OF PAVEMENT AND THE ONE STORY WOOD STRUCTURE.

- ELEV.= 4.55'

PARKING TABLE

TYPE	NUMBER
REGULAR	202 SPACES
HANDICAPPED	10 SPACES
TOTAL	212 SPACES

LINE TYPE LEGEND

W	WATER LINE
SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
GAS	UNDERGROUND GAS LINE
OHE	OVERHEAD UTILITY LINE
UGE	UNDERGROUND ELECTRIC LINE
TEL	UNDERGROUND TELEPHONE LINE
x x x x x x	FENCE
	ASPHALT PAVEMENT
	TREE LINE

SYMBOL LEGEND

	ELEVATION BENCHMARK		SANITARY SEWER CLEAN OUT
E	ELECTRIC BOX	S	SANITARY SEWER VALVE
E	ELECTRIC HANDHOLE		SIGN
EM	ELECTRIC METER		STORM SEWER DRAIN
	ELECTRIC SWITCH		TRAFFIC BOLLARD
T	ELECTRIC TRANSFORMER		TREE
	GUY ANCHOR		TREE-DEAD
	HANDICAPPED PARKING	U	UNIDENTIFIED BOX
	LIGHT STANDARD		UTILITY POLE
	ROOF DRAIN	WM	WATER METER
P.S.	PARKING SPACE		WATER VALVE
TOB	TOP OF BANK	TOS	TOE OF SLOPE

GENERAL NOTES:

1. THIS IS A TOPOGRAPHIC MAP PREPARED FOR SITE IMPROVEMENT AND DESIGN PURPOSES ONLY. THIS NOT A LAND TITLE SURVEY.
2. FLOOD STATEMENT: ACCORDING TO COMMUNITY PANEL NO. 12087C0768K, 12087C0769K, 12087C0931K,12087C0932K, DATED FEBRUARY 18, 2005 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED" THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN." ALL ZONE DELINEATIONS SHOWN HEREON ARE APPROXIMATE. THIS STATEMENT DOES NOT IMPLY THAT ANY PORTION OF THE SUBJECT TRACT IS TOTALLY FREE OF POTENTIAL FLOOD HAZARD. LOCALIZED FLOODING CAN OCCUR DUE TO NATURAL AND/OR MAN-MADE INFLUENCES. THIS FLOOD STATEMENT SHALL CREATE NO LIABILITY ON THE PART OF KIMLEY-HORN OR THE UNDERSIGNED.
3. GEODETIC BASIS STATEMENT:
   HORIZONTAL CONTROL: THE BEARINGS, DISTANCES, AREAS AND COORDINATES SHOWN HEREON ARE THE TEXAS STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (FIPS 901) (NAD'83), AS DETERMINED BY THE GLOBAL POSITIONING SYSTEM (GPS). ALL DISTANCES SHOWN HEREON ARE ON THE GRID. THE UNIT OF LINEAR MEASUREMENT IS U.S. SURVEY FEET.

   VERTICAL CONTROL: THIS DRAWING SHOWS EXISTING SPOT ELEVATIONS AND CONTOUR LINES BASED UPON A FIELD SURVEY CONDUCTED BY SURVEY PERSONNEL. THE CONTOUR INTERVAL IS 1 FOOT. ALL ELEVATIONS SHOWN HEREON ARE TIED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) BASED ON GPS OBSERVATIONS.
4. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SUNSHINE 811 MARKINGS LOCATED BY SURVEY CREWS, OR RECORD DRAWINGS OBTAINED FROM UTILITY COMPANIES REPRESENTATIVES. KIMLEY-HORN CANNOT GUARANTEE THE LOCATIONS OF SAID UTILITIES, EXCEPT THOSE THAT ARE OBSERVED AND READILY VISIBLE ON THE SURFACE AT THE TIME OF THIS SURVEY. KIMLEY-HORN ASSUMES NO LIABILITY FOR POORLY OR IMPROPERLY MARKED UTILITY LOCATIONS. PRIVATE INTERIOR SERVICE LINES ARE NOT SHOWN.
5. THE TREE SPECIES REFERENCED ON THIS EXHIBIT REFLECT FIELD IDENTIFICATIONS MADE BY SURVEY CREW PERSONNEL. AN ARBORIST OR OTHER EXPERT CONSULTANT SHOULD MAKE THE FINAL DETERMINATION OF TREE TYPES AND CONDITIONS. THIS SURVEY DOES NOT SHOW ALL EXISTING TREES OR LANDSCAPING.
6. THIS IS AN OSTENSIBLE BOUNDARY SHOWN FOR VISUAL AID ONLY. NOT A RESOLVED BOUNDARY.

SHEET INDEX

SHEET No.	DESCRIPTION
SHEET 1	SITE
SHEET 2	TREE LABELS
SHEET 3	TREE TABLE

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DESIGN SURVEY EXHIBIT OF A PORTION OF JOHN PENNEKAMP CORAL REEF STATE PARK

CITY OF KEY LARGO, MONROE COUNTY, FLORIDA

JAMES JANISSE
PROFESSIONAL MAPPER AND SURVEYOR NO. 7294
KIMLEY-HORN AND ASSOCIATES, INC.
10101 REUNION PLACE, SUITE 400
SAN ANTONIO, TEXAS 78216
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Kimley»Horn
10101 Reunion Place, Suite 400
San Antonio, Texas 78216 FIRM # 10193973
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Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 40'	TIA	JLJ	Aug 2025	147492002	1 OF 3

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DWG NAME: K:\SNA_SURVEY\147492002-KEY LARGO PENNEKAMP PARK\DWG\147492002 KEY LARGO PENNEKAMP PARK SURVEY BASE DWG .PLOTTED BY BARRERA, STEPHANIE | 11/10/2025 | 1:16 PM | LAST SAVED 8/14/2025 2:59 PM

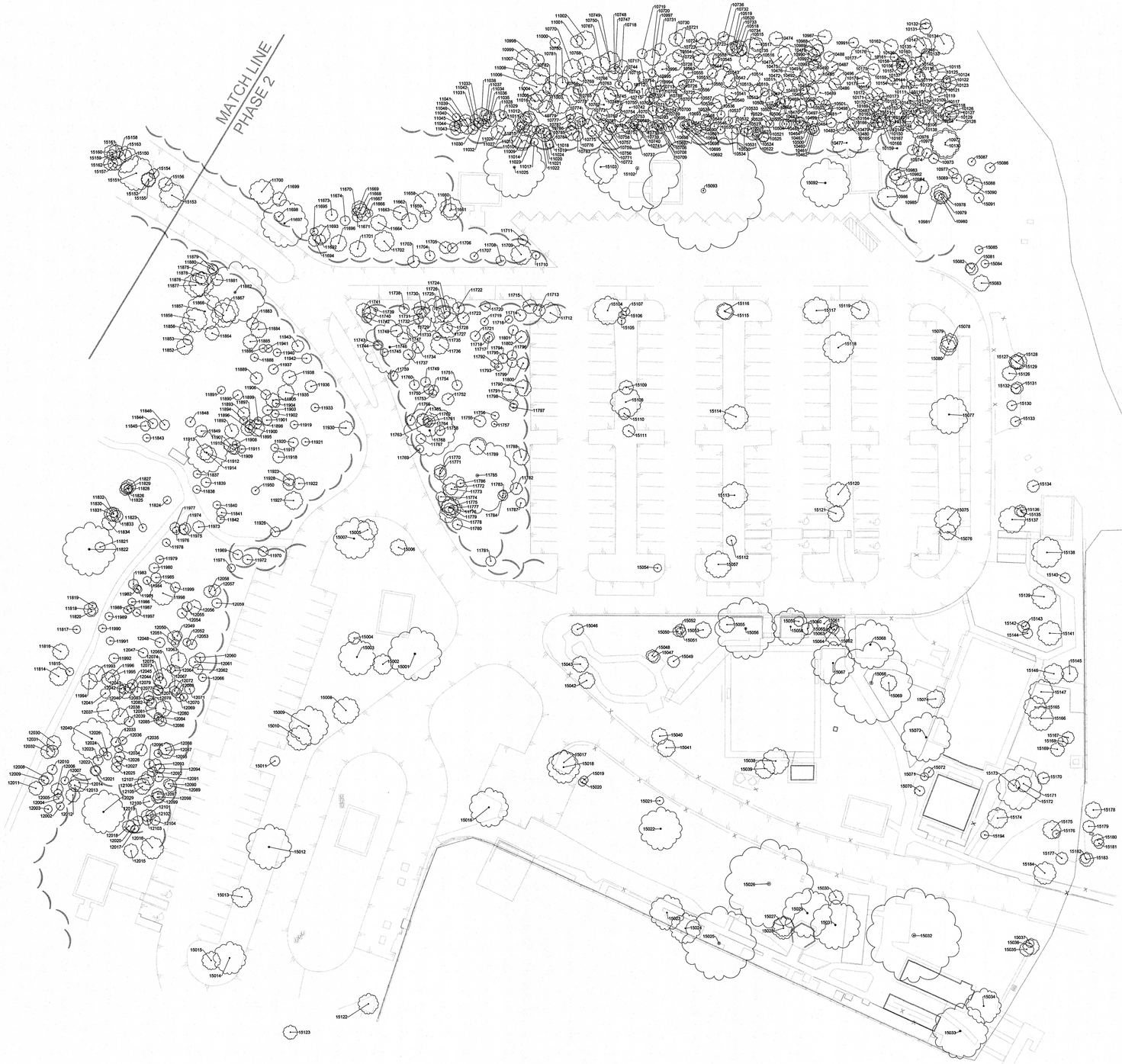
NORTH

GRAPHIC SCALE IN FEET

40 0 20 40 80

1" = 40' @ 24X36

MATCH LINE
PHASE 2



TREE LABELS

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DESIGN SURVEY EXHIBIT OF
A PORTION OF JOHN PENNEKAMP CORAL REEF STATE PARK
CITY OF KEY LARGO, MONROE COUNTY, FLORIDA

Kimley»Horn
10101 Reunion Place, Suite 400
San Antonio, Texas 78216 FIRM # 10193973
Tel. No. (210) 541-9166
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Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 40'	TIA	JLJ	11/10/2025	147492002	2 OF 3

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DWG NAME: K:\SNA_SURVEY\147492002-KEY LARGO PENNEKAMP PARK\DWG\147492002 KEY LARGO PENNEKAMP PARK SURVEY BASE.DWG PLOTTED BY: BARRERA, STEPHANIE 11/10/2025 3:38 PM LAST SAVED: 8/14/2025 2:59 PM

TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE		TREE TABLE	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
10104	5" RED-MANGROVE	10465	6" WHITE-MANGROVE	10546	4" RED-MANGROVE	10758	5" RED-MANGROVE	11021	7" RED-MANGROVE	11732	5" SEA-GRAPE	11824	4" POISONWOOD	11933	4" BUTTONWOOD	12042	4" POISONWOOD	15016	19" PALM
10105	7" RED-MANGROVE	10466	6" RED-MANGROVE	10547	5" WHITE-MANGROVE	10759	5" RED-MANGROVE	11022	4" RED-MANGROVE	11733	7" SEA-GRAPE	11825	6" POISONWOOD	11935	8" BUTTONWOOD	12043	5" POISONWOOD	15017	12" PALM
10106	5" RED-MANGROVE	10467	4" RED-MANGROVE	10548	9" WHITE-MANGROVE	10760	6" RED-MANGROVE	11023	4" RED-MANGROVE	11734	6" SOAP BERRY	11826	6" POISONWOOD	11936	6" SEA-GRAPE	12044	5" POISONWOOD	15018	16" PALM
10107	5" RED-MANGROVE	10468	12" RED-MANGROVE	10549	5" RED-MANGROVE	10761	4" RED-MANGROVE	11024	4" RED-MANGROVE	11735	4" SOAP BERRY	11827	7" POISONWOOD	11937	5" BUTTONWOOD	12045	5" SEA-GRAPE	15019	4" MAHOGANY
10108	4" RED-MANGROVE	10469	6" RED-MANGROVE	10550	6" RED-MANGROVE	10762	18" DEAD TREE RED-MANGROVE	11025	30" UNKNOWN	11736	9" BUTTONWOOD	11828	4" POISONWOOD	11938	7" BUTTONWOOD	12046	6" SEA-GRAPE	15020	4" MAHOGANY
10109	5" DEAD TREE RED-MANGROVE	10470	4" RED-MANGROVE	10551	5" RED-MANGROVE	10763	8" RED-MANGROVE	11026	7" RED-MANGROVE	11737	5" SEA-GRAPE	11829	4" POISONWOOD	11940	4" MILKBARK	12047	5" SEA-GRAPE	15021	4" MAHOGANY
10110	7" RED-MANGROVE	10471	5" DEAD TREE RED-MANGROVE	10552	6" RED-MANGROVE	10764	7" RED-MANGROVE	11027	9" RED-MANGROVE	11738	5" SEA-GRAPE	11830	7" BUTTONWOOD	11941	4" POISONWOOD	12048	5" BUTTONWOOD	15022	21" MAHOGANY
10111	6" RED-MANGROVE	10472	7" RED-MANGROVE	10553	8" RED-MANGROVE	10765	5" RED-MANGROVE	11028	6" RED-MANGROVE	11739	2" MULTI-TRUNK 8	11831	7" BUTTONWOOD	11942	5" POISONWOOD	12049	5" BUTTONWOOD	15023	17" MAHOGANY
10112	8" DEAD TREE RED-MANGROVE	10473	11" RED-MANGROVE	10554	6" RED-MANGROVE	10766	10" RED-MANGROVE	11029	4" RED-MANGROVE	11740	6" POISONWOOD	11832	4" BUTTONWOOD	11943	6" SOAP BERRY	12050	7" POISONWOOD	15024	15" PALM
10113	8" DEAD TREE RED-MANGROVE	10474	7" RED-MANGROVE	10555	5" RED-MANGROVE	10767	9" RED-MANGROVE	11030	5" RED-MANGROVE	11741	2" MULTI-TRUNK SOAPBERRY 7	11833	6" BUTTONWOOD	11950	4" POISONWOOD	12051	4" POISONWOOD	15025	36" MAHOGANY
10114	9" DEAD TREE RED-MANGROVE	10475	10" DEAD TREE RED-MANGROVE	10556	9" RED-MANGROVE	10768	8" RED-MANGROVE	11031	5" RED-MANGROVE	11742	5" POISONWOOD	11834	7" POISONWOOD	11969	5" POISONWOOD	12052	4" POISONWOOD	15026	43" MAHOGANY
10115	8" DEAD TREE RED-MANGROVE	10476	8" RED-MANGROVE	10557	6" RED-MANGROVE	10769	7" RED-MANGROVE	11032	6" RED-MANGROVE	11743	5" SEA-GRAPE	11837	4" POISONWOOD	11970	5" POISONWOOD	12053	5" BUTTONWOOD	15027	10" SEAGRAPE
10116	5" RED-MANGROVE	10477	15" GUM	10689	6" RED-MANGROVE	10770	9" RED-MANGROVE	11033	5" RED-MANGROVE	11744	4" SEA-GRAPE	11838	4" SEA-GRAPE	11971	4" MILKBARK	12054	5" POISONWOOD	15028	11" SEAGRAPE
10117	5" RED-MANGROVE	10478	6" RED-MANGROVE	10690	6" RED-MANGROVE	10771	7" WHITE-MANGROVE	11034	5" WHITE-MANGROVE	11745	4" POISONWOOD	11839	5" SEA-GRAPE	11972	5" SOAP BERRY	12055	5" POISONWOOD	15029	24" TAMARIND
10118	5" DEAD TREE RED-MANGROVE	10479	6" RED-MANGROVE	10691	5" WHITE-MANGROVE	10772	5" RED-MANGROVE	11035	7" RED-MANGROVE	11746	26" MULTI-TRUNK POISONWOOD	11840	4" POISONWOOD	11973	6" TAMARIND	12056	7" SEA-GRAPE	15030	7" SEAGRAPE
10119	9" RED-MANGROVE	10480	6" RED-MANGROVE	10692	4" RED-MANGROVE	10773	5" RED-MANGROVE	11036	6" RED-MANGROVE	11747	6" POISONWOOD	11841	5" POISONWOOD	11974	6" MULTI-TRUNK BUTTONWOOD	12057	6" POISONWOOD	15031	24" MAHOGANY
10120	6" RED-MANGROVE	10481	10" WHITE-MANGROVE	10693	6" RED-MANGROVE	10774	4" WHITE-MANGROVE	11037	6" RED-MANGROVE	11748	6" BUTTONWOOD	11842	4" POISONWOOD	11975	5" BUTTONWOOD	12058	6" MULTI-TRUNK BUTTONWOOD	15032	46" TAMARIND
10121	6" DEAD TREE RED-MANGROVE	10482	6" RED-MANGROVE	10694	5" WHITE-MANGROVE	10775	5" RED-MANGROVE	11038	8" WHITE-MANGROVE	11749	5" BUTTONWOOD	11843	4" BUTTONWOOD	11976	4" POISONWOOD	12059	5" POISONWOOD	15033	27" MAHOGANY
10122	5" DEAD TREE RED-MANGROVE	10483	6" RED-MANGROVE	10695	7" WHITE-MANGROVE	10776	8" RED-MANGROVE	11039	8" RED-MANGROVE	11750	5" POISONWOOD	11844	5" POISONWOOD	11977	5" SEA-GRAPE	12060	5" POISONWOOD	15034	17" MAHOGANY
10123	7" RED-MANGROVE	10484	5" RED-MANGROVE	10696	4" RED-MANGROVE	10777	5" RED-MANGROVE	11040	7" WHITE-MANGROVE	11751	5" TAMARIND	11845	5" POISONWOOD	11978	4" IRONWOOD	12061	6" MULTI-TRUNK MAHOGANY	15035	7" BUTTONWOOD
10124	4" RED-MANGROVE	10485	9" RED-MANGROVE	10697	5" RED-MANGROVE	10778	9" RED-MANGROVE	11041	6" RED-MANGROVE	11752	6" SOAP BERRY	11846	5" SEA-GRAPE	11979	4" POISONWOOD	12062	5" POISONWOOD	15036	8" BUTTONWOOD
10125	8" RED-MANGROVE	10486	6" RED-MANGROVE	10698	4" RED-MANGROVE	10779	10" RED-MANGROVE	11042	5" RED-MANGROVE	11753	4" BUTTONWOOD	11848	5" IRONWOOD	11980	5" SEA-GRAPE	12063	8" POISONWOOD	15037	4" BUTTONWOOD
10126	7" RED-MANGROVE	10487	6" RED-MANGROVE	10699	7" RED-MANGROVE	10780	6" RED-MANGROVE	11043	5" WHITE-MANGROVE	11754	5" POISONWOOD	11849	6" MULTI-TRUNK BUTTONWOOD	11981	4" BUTTONWOOD	12064	5" POISONWOOD	15038	13" BUTTONWOOD
10127	8" WHITE-MANGROVE	10488	5" RED-MANGROVE	10700	6" RED-MANGROVE	10781	11" RED-MANGROVE	11044	5" RED-MANGROVE	11755	6" BUTTONWOOD	11852	8" POISONWOOD	11982	4" BUTTONWOOD	12065	4" POISONWOOD	15039	10" BUTTONWOOD
10128	10" WHITE-MANGROVE	10489	12" RED-MANGROVE	10701	5" RED-MANGROVE	10782	7" RED-MANGROVE	11045	4" RED-MANGROVE	11756	4" POISONWOOD	11853	5" IRONWOOD	11983	5" BUTTONWOOD	12066	4" SOAP BERRY	15040	8" PALM
10129	4" RED-MANGROVE	10490	11" RED-MANGROVE	10702	6" WHITE-MANGROVE	10783	5" WHITE-MANGROVE	11046	4" RED-MANGROVE	11757	3" MULTI-TRUNK 5	11856	6" IRONWOOD	11984	4" POISONWOOD	12067	5" SEA-GRAPE	15041	9" PALM
10130	14" RED-MANGROVE	10491	8" RED-MANGROVE	10703	8" RED-MANGROVE	10784	7" WHITE-MANGROVE	11658	11" SEA-GRAPE	11758	5" POISONWOOD	11857	18" MAHOGANY	11985	5" POISONWOOD	12068	5" SEA-GRAPE	15042	8" PALM
10131	6" RED-MANGROVE	10492	7" RED-MANGROVE	10704	4" RED-MANGROVE	10785	5" RED-MANGROVE	11659	6" SEA-GRAPE	11759	5" BUTTONWOOD	11858	12" MAHOGANY	11986	4" POISONWOOD	12069	4" SEA-GRAPE	15043	8" PALM
10132	5" RED-MANGROVE	10493	4" RED-MANGROVE	10705	5" RED-MANGROVE	10786	4" RED-MANGROVE	11660	11" SEA-GRAPE	11760	5" POISONWOOD	11864	7" TAMARIND	11987	4" BUTTONWOOD	12070	4" POISONWOOD	15046	6" BUTTONWOOD
10133	6" RED-MANGROVE	10494	6" RED-MANGROVE	10706	5" WHITE-MANGROVE	10787	4" RED-MANGROVE	11661	7" SEA-GRAPE	11761	6" POISONWOOD	11866	12" TAMARIND	11988	4" BUTTONWOOD	12071	5" BUTTONWOOD	15047	6" BUTTONWOOD
10134	10" RED-MANGROVE	10495	8" RED-MANGROVE	10707	8" WHITE-MANGROVE	10788	4" RED-MANGROVE	11662	8" SEA-GRAPE	11762	4" POISONWOOD	11867	12" TAMARIND	11989	4" BUTTONWOOD	12072	7" MULTI-TRUNK BUTTONWOOD	15048	6" BUTTONWOOD
10135	11" DEAD TREE RED-MANGROVE	10496	8" RED-MANGROVE	10708	5" RED-MANGROVE	10789	6" RED-MANGROVE	11663	7" SEA-GRAPE	11763	4" POISONWOOD	11875	12" GUMBO-LIMBO	11990	4" BUTTONWOOD	12073	6" SEA-GRAPE	15049	6" BUTTONWOOD
10136	7" RED-MANGROVE	10497	6" RED-MANGROVE	10709	5" RED-MANGROVE	10972	14" LIVE OAK	11664	8" SEA-GRAPE	11764	12" PALM	11876	12" GUMBO-LIMBO	11991	4" BUTTONWOOD	12074	10" SEA-GRAPE	15050	5" PALM
10137	6" RED-MANGROVE	10498	4" RED-MANGROVE	10710	4" RED-MANGROVE	10973	5" RED-MANGROVE	11666	4" SEA-GRAPE	11765	6" POISONWOOD	11877	12" GUMBO-LIMBO	11992	5" BUTTONWOOD	12075	4" SEA-GRAPE	15051	5" PALM
10138	12" WHITE-MANGROVE	10499	4" WHITE-MANGROVE	10711	5" RED-MANGROVE	10974	5" RED-MANGROVE	11667	7" SEA-GRAPE	11766	5" SEA-GRAPE	11878	6" POISONWOOD	11993	8" BUTTONWOOD	12076	5" POISONWOOD	15052	5" PALM
10139	8" RED-MANGROVE	10500	5" WHITE-MANGROVE	10712	5" RED-MANGROVE	10975	5" LIVE OAK	11668	7" SEA-GRAPE	11767	5" BUTTONWOOD	11879	5" GUMBO-LIMBO	11994	8" MULTI-TRUNK TAMARIND	12077	5" POISONWOOD	15053	8" PALM
10140	6" RED-MANGROVE	10501	5" RED-MANGROVE	10713	6" RED-MANGROVE	10976	5" LIVE OAK	11669	7" SEA-GRAPE	11768	25" MULTI-TRUNK POISONWOOD	11880	5" GUMBO-LIMBO	11995	7" SEA-GRAPE	12078	5" SEA-GRAPE	15054	4" PALM
10141	6" WHITE-MANGROVE	10502	5" RED-MANGROVE	10714	6" RED-MANGROVE	10977	5" POISON-WOOD	11670	4" SEA-GRAPE	11769	4" SEA-GRAPE	11881	6" MULTI-TRUNK SOAPBERRY	11996	7" SEA-GRAPE	12079	5" SEA-GRAPE	15055	8" PALM
10142	8" RED-MANGROVE	10503	4" RED-MANGROVE	10715	7" RED-MANGROVE	10978	8"" LIVE OAK	11671	5" SEA-GRAPE	11770	6" SEA-GRAPE	11882	30" TAMARIND	11997	4" POISONWOOD	12080	8" MULTI-TRUNK MAHOGANY	15056	30" TAMARIND
10143	5" RED-MANGROVE	10504	5" RED-MANGROVE	10716	11" RED-MANGROVE	10979	10"" LIVE OAK	11673	6" SEA-GRAPE	11771	6" POISONWOOD	11883	6" BUTTONWOOD	11998	12" PALM	12081	10" PALM	15057	13" MAHOGANY
10144	4" RED-MANGROVE	10505	5" RED-MANGROVE	10717	6" RED-MANGROVE	10980	6" POISON-WOOD	11674	5" SEA-GRAPE	11772	12" POISONWOOD	11884	8" BUTTONWOOD	11999	5" POISONWOOD	12082	5" POISONWOOD	15058	18" TAMARIND
10145	4" WHITE-MANGROVE	10506	6" WHITE-MANGROVE	10718	7" RED-MANGROVE	10981	5" POISON-WOOD	11692	5" TAMARIND	11773	6" POISONWOOD	11885	7" MULTI-TRUNK BUTTONWOOD	12002	4" POISONWOOD	12083	5" SEA-GRAPE	15059	5" PALM
10146	5" RED-MANGROVE	10507	8" RED-MANGROVE	10719	5" RED-MANGROVE	10982	8" TAMARIND	11693	9" BUTTONWOOD	11774	5" SEA-GRAPE	11886	4" POISONWOOD	12003	4" POISONWOOD	12084	4" POISONWOOD	15060	6" PALM
10147	8" DEAD TREE RED-MANGROVE	10508	5" WHITE-MANGROVE	10720	8" RED-MANGROVE	10983	6" SEA-GRAPE	11694	6" SEA-GRAPE	11775	8" SEA-GRAPE	11888	4" GUMBO-LIMBO	12004	5" POISONWOOD	12085	5" POISONWOOD	15061	7" PALM
10148	5" RED-MANGROVE	10509	7" RED-MANGROVE	10721	10" RED-MANGROVE	10984	7" SEA-GRAPE	11695	4" SEA-GRAPE	11776	10" SEA-GRAPE	11889	6" SEAGRAPE	12005	4" POISONWOOD	12086	5" SEA-GRAPE	15062	10" PALM
10149	5" RED-MANGROVE	10510	9" WHITE-MANGROVE	10722	8" RED-MANGROVE	10985	7" SEA-GRAPE	11696	8" BUTTONWOOD	11777	5" SEA-GRAPE	11890	5" SEA-GRAPE	12006	6" BUTTONWOOD	12087	8" TAMARIND	15063	5" PALM
10150	4" RED-MANGROVE	10511	6" RED-MANGROVE	10723	6" RED-MANGROVE	10986	10" RED-MANGROVE	11697	23" MAHOGANY	11778	8" SEA-GRAPE	11891	4" SEA-GRAPE	12007	4" POISONWOOD	12088	6" TAMARIND	15064	5" PALM
10151	9" RED-MANGROVE	10512	4" RED-MANGROVE	10724	6" RED-MANGROVE	10987	7" RED-MANGROVE	11698	5" POISONWOOD	11779	5" SEA-GRAPE	11892	7" POISONWOOD	12008	6" BUTTONWOOD	12089	6" BUTTONWOOD	15065	4" PALM
10152	10" WHITE-MANGROVE	10513	7" RED-MANGROVE	10725	5" RED-MANGROVE	10988	9" RED-MANGROVE	11699	7" POISONWOOD	11780	5" SEA-GRAPE	11893	6" BUTTONWOOD	12009	5" BUTTONWOOD	12090	5" TAMARIND	15066	40" FIG
10153	7" RED-MANGROVE	10514	12" RED-MANGROVE	10726	4" RED-MANGROVE	10989	6" RED-MANGROVE	11700	12" SEA-GRAPE	11781	5" SOAP BERRY	11894	4" POISONWOOD	12010	5" BUTTONWOOD	12091	5" SEA-GRAPE	15067	21" TAMARIND
10154	5" WHITE-MANGROVE	10515	8" RED-MANGROVE	10727	8" RED-MANGROVE	10990	8" RED-MANGROVE	11701	6" MULTI-TRUNK BUTTONWOOD	11782	6" POISONWOOD	11895	4" POISONWOOD	12011	7" MULTI-TRUNK BUTTONWOOD	12092	5" SEA-GRAPE	15068	24" TAMARIND
10155	4" RED-MANGROVE	10516	4" RED-MANGROVE	10728	9" RED-MANGROVE	10991	5" RED-MANGROVE	11702	10" MULTI-TRUNK SEA-GRAPE	11783	4" SEA-GRAPE	11896	7" MULTI-TRUNK BUTTONWOOD	12012	7" MAHOGANY	12093	6" POISONWOOD	15069	8" PALM
10156	4" RED-MANGROVE	10517	7" RED-MANGROVE	10729	6" RED-MANGROVE	10992	5" RED-MANGROVE	11703	6" SOAP BERRY	11784	5" SEA-GRAPE	11897	5" GUMBO-LIMBO	12013	6" POISONWOOD	12094	5" BUTTONWOOD	15070	5" WILLOW
10157	8" WHITE-MANGROVE	10518	8" RED-MANGROVE	10730	7" RED-MANGROVE	10993	5" RED-MANGROVE	11704	5" POISONWOOD	11785	37" MULTI-TRUNK BUTTONWOOD	11898	5" GUMBO-LIMBO	12014	9" MAHOGANY	12095	4" SOAP BERRY	15071	4" MAHOGANY
10158	4" WHITE-MANGROVE	10519	6" RED-MANGROVE	10731	6" WHITE-MANGROVE	10994	5" WHITE-MANGROVE	11705	6" SEA-GRAPE	11786	4" POISONWOOD	11899	4" GUMBO-LIMBO	12015	7" MAHOGANY	12096	5" SEA-GRAPE	15072	5" SEAGRAPE
10159	21" EAR-TREE	10520	7" RED-MANGROVE	10732	10" RED-MANGROVE	10995	7" RED-MANGROVE	11706	5" MULTI-TRUNK SEA-GRAPE	11787	5" SEA-GRAPE	11900	8" GUMBO-LIMBO	12016	11" BUTTONWOOD	12097	6" POISONWOOD	15073	24" BUTTONWOOD
10160	4" RED-MANGROVE	10521	8" WHITE-MANGROVE	10733	6" RED-MANGROVE	10996	8" RED-MANGROVE	11707	4" POISONWOOD	11788	8" TAMARIND	11901	5" BUTTONWOOD	12017	4" POISONWOOD	12098	6" POISONWOOD	15074	9" BUTTONWOOD
10161	4" RED-MANGROVE	10522	6" WHITE-MANGROVE	10734	5" RED-MANGROVE	10997	4" RED-MANGROVE	11708	5" SEA-GRAPE	11789	8" SEA-GRAPE	11902	4" POISONWOOD	12018	6" POISONWOOD	12099	6" POISONWOOD	15075	13" SEAGRAPE
10162	7" DEAD TREE RED-MANGROVE	10523	4" RED-MANGROVE	10735	10" RED-MANGROVE	10998	6" RED-MANGROVE	11709	10" BUTTONWOOD	11790	8" SEA-GRAPE	11903	5" BUTTONWOOD	12019	5" POISONWOOD	12100	6" POISONWOOD	15076	8" SEAGRAPE
10163	8" WHITE-MANGROVE	10524	5" RED-MANGROVE	10736	5" RED-MANGROVE	10999	10" RED-MANGROVE	11710	4" BUTTONWOOD	11791	8" BUTTONWOOD	11904	4" POISONWOOD	12020	7" MULTI-TRUNK BUTTONWOOD	12101	6" MAHOGANY	15077	19" MAHOGANY
10164	5" RED-MANGROVE	10525	5" RED-MANGROVE	10737	6" RED-MANGROVE	11000	5" RED-MANGROVE	11711	5" SEA-GRAPE	11792	4" BUTTONWOOD	11905	7" BUTTONWOOD	12021	5" BUTTONWOOD	12102	5" BUTTONWOOD	15078	8" SEAGRAPE
10165	5" RED-MANGROVE	10526	4" RED-MANGROVE	10738	6" RED-MANGROVE	11001	6" RED-MANGROVE	11712	10" BUTTONWOOD	11793	4" POISONWOOD	11906	5" BUTTONWOOD	12022	5" BUTTONWOOD	12103	5" POISONWOOD	15079	8" SEAGRAPE
10166	4" WHITE-MANGROVE	10527	8" RED-MANGROVE	10739	6" RED-MANGROVE	11002	9" RED-MANGROVE	11713	6" SEA-GRAPE	11794	5" BUTTONWOOD	11907	7" MULTI-TRUNK BUTTONWOOD	12023	5" SEA-GRAPE	12104	5" POISONWOOD	15080	8" SEAGRAPE
10167	7" RED-MANGROVE	10528	6" WHITE-MANGROVE	10740	5" RED-MANGROVE	11003	8" RED-MANGROVE	11714	6" SEA-GRAPE	11795	5" BUTTONWOOD	11908	4" POISONWOOD	12024	4" MULTI-TRUNK SEA-GRAPE	12105	8" MULTI-TRUNK BUTTONWOOD	15081	6" BUTTONWOOD
10168	6" RED-MANGROVE	10529	4" RED-MANGROVE	10741	4" RED-MANGROVE	11004	11" RED-MANGROVE	11715	7" BUTTONWOOD	11796	5" BUTTONWOOD	11909	5" POISONWOOD	12025	5" POISONWOOD	12106	8" MULTI-TRUNK SEA-GRAPE	15082	5" BUTTONWOOD
10169	4" RED-MANGROVE	10530	5" RED-MANGROVE	10742	10" RED-MANGROVE	11005	8" RED-MANGROVE	11716	4" POISONWOOD	11797	4" POISONWOOD	11910	5" POISONWOOD	12026	4" SEA-GRAPE	12107	7" SEA-GRAPE	15083	8" BUTTONWOOD
10170	5" RED-MANGROVE	10531	4" RED-MANGROVE	10743	5" RED-MANGROVE	11006	14" WHITE-MANGROVE	11717	5" BUTTONWOOD	11798	4" POISONWOOD	11911	4" TAMARIND	12027	5" POISONWOOD	15001	26" SEAGRAPE	15084	4" BUTTONWOOD
10171	5" WHITE-MANGROVE	10532	6" RED-MANGROVE	10744	4" RED-MANGROVE	11007	9" RED-MANGROVE	11718	5" BUTTONWOOD	11799	5" BUTTONWOOD	11912	20" BUTTONWOOD	12028	5" POISONWOOD	15002	10" GUMBO	15085	4" BUTTONWOOD
10172	4" RED-MANGROVE	10533	9" WHITE-MANGROVE	10745	7" RED-MANGROVE	11008	8" RED-MANGROVE	11719	4" SEA-GRAPE	11800	6" MULTI-TRUNK 6	11913	8" BUTTONWOOD	12029	21" UNKNOWN	15003	18" GUMBO	15086	5" BUTTONWOOD
10173	4" RED-MANGROVE	10534	7" RED-MANGROVE	10746	11" RED-MANGROVE	11009	10" WHITE-MANGROVE	11720	5" BUTTONWOOD	11801	5" POISONWOOD	11914	8" MULTI-TRUNK BUTTONWOOD	12030	7" BUTTONWOOD	15004	6" BUTTONWOOD	15087	4" SEAGRAPE
10174	6" RED-MANGROVE	10535	4" RED-MANGROVE	10747	7" RED-MANGROVE	11010	12" WHITE-MANGROVE	11721	5" POISONWOOD	11802	6" MAHOGANY	11917	4" MAHOGANY	12031	6" BUTTONWOOD	15005	10" SEAGRAPE	15088	5" MAHOGANY
10175	6" RED-MANGROVE	10536	4" RED-MANGROVE	10748	5" RED-MANGROVE	11011	7" WHITE-MANGROVE	11722	6" BUTTONWOOD	11814	9" TAMARIND	11918	6" MAHOGANY	12032	7" BUTTONWOOD	15006	8" MAHOGANY	15089	5" POISONWOOD
10176	7" RED-MANGROVE	10537	4" RED-MANGROVE	10749	10" RED-MANGROVE	11012	6" WHITE-MANGROVE	11723	6" SEA-GRAPE	11815	4" BUTTONWOOD	11919	4" POISONWOOD	12033	5" SEA-GRAPE	15007	20" MAHOGANY	15090	8" MAHOGANY
10177	10" RED-MANGROVE	10538	7" RED-MANGROVE	10750	10" RED-MANGROVE	11013	6" RED-MANGROVE	11724	13" PALM	11816	8" TAMARIND	11920	5" POISONWOOD	12034	4" POISONWOOD	15008	13" MAHOGANY	15091	5" SEAGRAPE
10178	8" RED-MANGROVE	10539	7" RED-MANGROVE	10751	6" RED-MANGROVE	11014	6" RED-MANGROVE	11725	13" PALM	11817	4" POISONWOOD	11921	4" POISONWOOD	12035	6" TAMARIND	15009	19" MAHOGANY	15092	24" MAHOGANY
10179	7" DEAD TREE RED-MANGROVE	10540	4" RED-MANGROVE	10752	6" RED-MANGROVE	11015	4" RED-MANGROVE	11726	6" POISONWOOD	11818	7" MAHOGANY	11922	6" POISONWOOD	12036	4" SEA-GRAPE	15010	12" SEAGRAPE	15093	59" MAHOGANY
10460	5" RED-MANGROVE	10541	7" RED-MANGROVE	10753	6" RED-MANGROVE	11016	6" RED-MANGROVE	11727	5" POISONWOOD	11819	4" TAMARIND	11923	6" POISONWOOD	12037	11" TAMARIND	15011	5" PALM	15102	42" MAHOGANY
10461	5" RED-MANGROVE	10542	8" RED-MANGROVE	10754	6" RED-MANGROVE	11017	4" RED-MANGROVE	11728	13" PALM	11820	4" TAMARIND	11926	5" POISONWOOD	12038	8" MULTI-TRUNK TAMARIND	15012	22" MAHOGANY	15103	17" MAHOGANY
10462	5" RED-MANGROVE	10543	10" RED-MANGROVE	10755	5" RED-MANGROVE	11018	7" RED-MANGROVE	11729	13" PALM	11821	5" POISONWOOD	11927	9" TAMARIND	12039	5" BUTTONWOOD	15013	10" MAHOGANY	15104	14" MAHOGANY
10463	4" RED-MANGROVE	10544	4" RED-MANGROVE	10756	7" RED-MANGROVE	11019	4" RED-MANGROVE	11730	8" PALM	11822	26" MULTI-TRUNK POISONWOOD	11928	6" POISONWOOD	12040	20" BUTTONWOOD	15014	16" MAHOGANY	15105	4" MAHOGANY
10464	6" WHITE-MANGROVE	10545	5" RED-MANGROVE	10757	6" RED-MANGROVE	11020	7" RED-MANGROVE	11731	5" MULTI-TRUNK 5	11823	4" GUMBO-LIMBO	11930	7" POISONWOOD	12041	5" TAMARIND	15015	9" MAHOGANY	15106	4" BUTTONWOOD

TREE TABLES

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MONROE COUNTY
PLANNING DEPT.

DESIGN SURVEY EXHIBIT OF
A PORTION OF JOHN PENNEKAMP
CORAL REEF STATE PARK
CITY OF KEY LARGO, MONROE COUNTY, FLORIDA

Kimley»Horn
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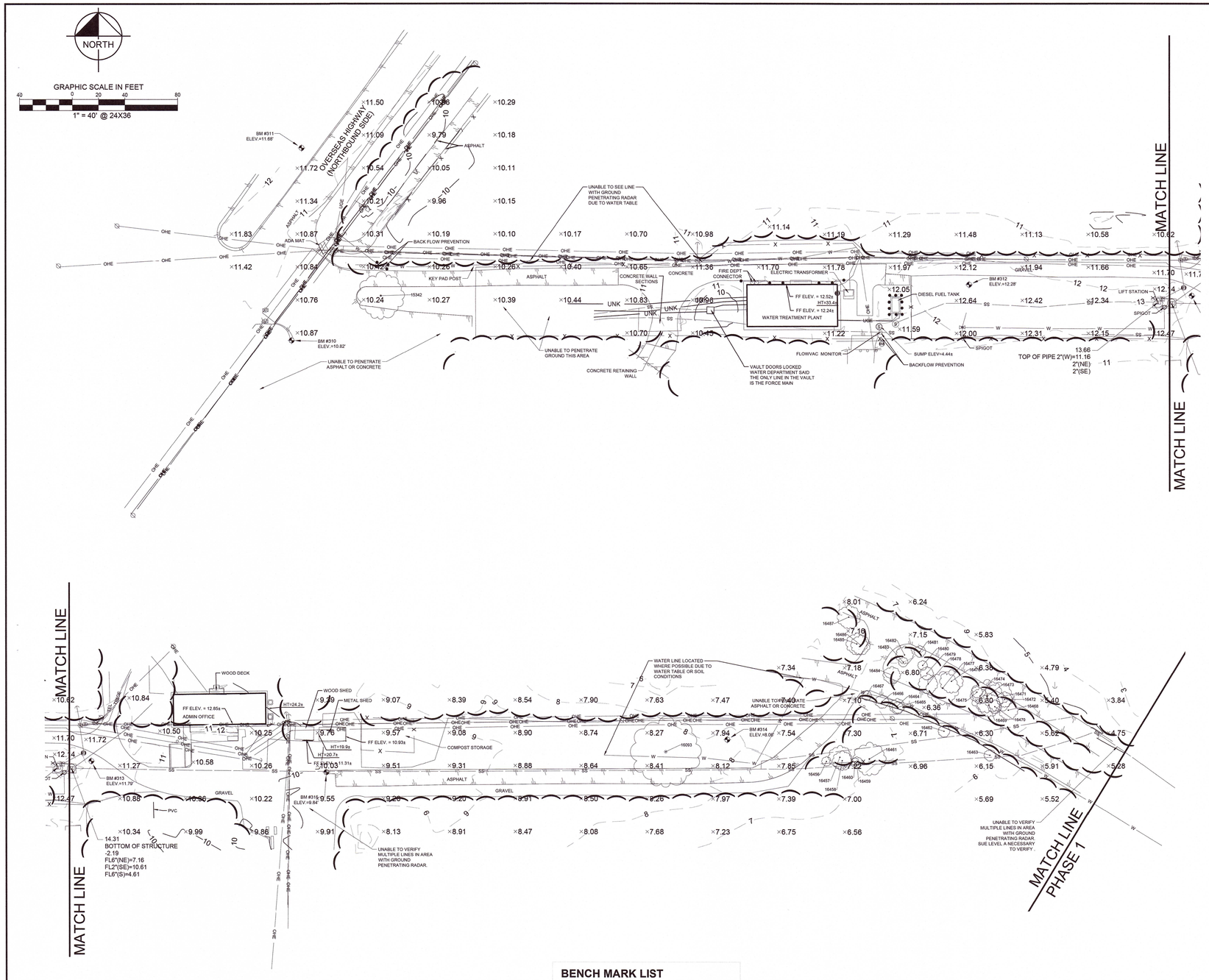
Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
N/A	TIA	JLJ	11/10/2025	147492002	3 OF 3

DWG NAME: K:\SNA_SURVEY\147492002-KEY LARGO PENNEKAMP PARK\DWG\147492002 KEY LARGO PENNEKAMP PARK SURVEY BASE DWG PLOTTED BY: BARRERA, STEPHANIE 11/10/2025 3:39 PM LAST SAVED: 8/14/2025 2:59 PM



VICINITY MAP

NOT TO SCALE



GENERAL NOTES:

1. THIS IS A TOPOGRAPHIC MAP PREPARED FOR SITE IMPROVEMENT AND DESIGN PURPOSES ONLY. THIS NOT A LAND TITLE SURVEY.
2. FLOOD STATEMENT: ACCORDING TO COMMUNITY PANEL NO. 12087C0768K, 12087C0769K, 12087C0931K,12087C0932K, DATED FEBRUARY 18, 2005 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN." ALL ZONE DELINEATIONS SHOWN HEREON ARE APPROXIMATE. THIS STATEMENT DOES NOT IMPLY THAT ANY PORTION OF THE SUBJECT TRACT IS TOTALLY FREE OF POTENTIAL FLOOD HAZARD. LOCALIZED FLOODING CAN OCCUR DUE TO NATURAL AND/OR MAN-MADE INFLUENCES. THIS FLOOD STATEMENT SHALL CREATE NO LIABILITY ON THE PART OF KIMLEY-HORN OR THE UNDERSIGNED.
3. GEODETIC BASIS STATEMENT:
   HORIZONTAL CONTROL: THE BEARINGS, DISTANCES, AREAS AND COORDINATES SHOWN HEREON ARE THE TEXAS STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (FIPS 901) (NAD'83), AS DETERMINED BY THE GLOBAL POSITIONING SYSTEM (GPS). ALL DISTANCES SHOWN HEREON ARE ON THE GRID. THE UNIT OF LINEAR MEASUREMENT IS U.S. SURVEY FEET.

   VERTICAL CONTROL: THIS DRAWING SHOWS EXISTING SPOT ELEVATIONS AND CONTOUR LINES BASED UPON A FIELD SURVEY CONDUCTED BY SURVEY PERSONNEL. THE CONTOUR INTERVAL IS 1 FOOT. ALL ELEVATIONS SHOWN HEREON ARE TIED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) BASED ON GPS OBSERVATIONS.
4. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SUNSHINE 811 MARKINGS LOCATED BY SURVEY CREWS, OR RECORD DRAWINGS OBTAINED FROM UTILITY COMPANIES REPRESENTATIVES. KIMLEY-HORN CANNOT GUARANTEE THE LOCATIONS OF SAID UTILITIES, EXCEPT THOSE THAT ARE OBSERVED AND READILY VISIBLE ON THE SURFACE AT THE TIME OF THIS SURVEY. KIMLEY-HORN ASSUMES NO LIABILITY FOR POORLY OR IMPROPERLY MARKED UTILITY LOCATIONS. PRIVATE INTERIOR SERVICE LINES ARE NOT SHOWN.
5. THE TREE SPECIES REFERENCED ON THIS EXHIBIT REFLECT FIELD IDENTIFICATIONS MADE BY SURVEY CREW PERSONNEL. AN ARBORIST OR OTHER EXPERT CONSULTANT SHOULD MAKE THE FINAL DETERMINATION OF TREE TYPES AND CONDITIONS. THIS SURVEY DOES NOT SHOW ALL EXISTING TREES OR LANDSCAPING.

LINE TYPE LEGEND

W	WATER LINE
SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
GAS	UNDERGROUND GAS LINE
OHE	OVERHEAD UTILITY LINE
UGE	UNDERGROUND ELECTRIC LINE
TEL	UNDERGROUND TELEPHONE LINE
x x x x x x	FENCE
	ASPHALT PAVEMENT
	TREE LINE

SYMBOL LEGEND

	ELEVATION BENCHMARK		SANITARY SEWER CLEAN OUT
E	ELECTRIC BOX	S	SANITARY SEWER VALVE
E	ELECTRIC HANDHOLE		SIGN
E	ELECTRIC METER		STORM SEWER DRAIN
	ELECTRIC SWITCH		TRAFFIC BOLLARD
T	ELECTRIC TRANSFORMER		TREE
	GUY ANCHOR		TREE-DEAD
	HANDICAPPED PARKING	U	UNIDENTIFIED BOX
	LIGHT STANDARD		UTILITY POLE
	ROOF DRAIN	M	WATER METER
P.S.	PARKING SPACE		WATER VALVE
TOB	TOP OF BANK	TOS	TOE OF SLOPE

TREE TABLE		TREE TABLE	
NO.	DESCRIPTION	NO.	DESCRIPTION
15342	24" MAHOGANY	16471	15" MAHOGANY
16093	36" STRANGLER FIG	16472	8" FIG
16456	5" POISONWOOD	16473	17" TAMARIND
16457	12" SEAGRAPE	16474	8" SEAGRAPE
16458	10" SEAGRAPE	16475	6" MAHOGANY
16459	6" SEAGRAPE	16476	12" POISONWOOD
16460	4" POISONWOOD	16477	17" TAMARIND
16461	17" SEAGRAPE	16478	10" GUMBOLIMBO
16462	6" FIG	16479	7" GUMBOLIMBO
16463	6" FIG	16480	5" MAHOGANY
16464	8" TAMARIND	16481	6" MAHOGANY
16465	6" POISONWOOD	16482	9" POISONWOOD
16466	7" SEAGRAPE	16483	5" SEAGRAPE
16467	5" SEAGRAPE	16484	9" GUMBOLIMBO
16468	10" TAMARIND	16485	11" GUMBOLIMBO
16469	12" TAMARIND	16486	10" MAHOGANY
16470	7" TAMARIND	16487	12" MAHOGANY

BENCH MARK LIST

DATUM IS NAVD '88, USING GEOID 18, BASED ON GPS OBSERVATIONS.

BM #310 NAIL SET IN ASPHALT PARKING LOT
- ELEV.= 10.82'

BM #311 NAIL SET IN MEDIAN OF OVERSEAS HIGHWAY
- ELEV.= 11.68'

BM #312 NAIL SET IN SOUTH SIDE OF GRAVEL ROAD
- ELEV.= 12.28'

BM #313 NAIL SET IN SOUTH SIDE OF GRACEL AREA APPROXIMATELY 12' EAST OF EDGE OF LIFT STATION
- ELEV.= 11.75'

BM #314 NAIL SET IN GRAVEL AREA
- ELEV.= 8.06'

BM #315 MAG NAIL WITH DISC STAMPED "TRAV PT LB7979" SET IN ASPHALT
- ELEV.= 4.55'

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FEB 10 2026
MONROE COUNTY
PLANNING DEPT.

DESIGN SURVEY EXHIBIT OF A PORTION OF JOHN PENNEKAMP CORAL REEF STATE PARK

CITY OF KEY LARGO, MONROE COUNTY, FLORIDA

Kimley»Horn
10101 Reunion Place, Suite 400
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Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 40'	TIA	JLJ	1/21/2025	147492002	1 OF 1

DWG NAME: K:\SNA_SURVEY\147492002-KEY LARGO PENNEKAMP PARK\TRANSFER OUT\20240121 DWG TO ENG\147492002 KEY LARGO PENNEKAMP PARK SURVEY BASE PH2.DWG PLOTTED BY: HEATH, TIA 1/21/2025 2:52 PM LAST SAVED: 1/21/2025 2:45 PM

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.

11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.

12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.

3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.

3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.

6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.

7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.

11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.

12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.

14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.

17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.

19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

WATER AND SEWER UTILITY NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.

3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.

5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.

7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.

9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

EROSION CONTROL NOTES (CONT.)

13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.

14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.

15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

18. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.

21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION).

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED TO 55 CUBIC YARDS / ACRE.

7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

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SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: AJ
Consultant:

K2M DESIGN
Key Largo, Florida
Key West, Florida
Marathon, Florida
www.k2mdesign.com
PROF. REG. AA26001039
Architecture, Engineering, Planning, Interiors
Based on Trust and Results
Construction Management | Commissioning | Energy Modeling
Maximo | Condition Assessment | Facility Asset Management

STATE OF FLORIDA
CARL ALBERT ALEXANDER
LICENSE NO. 72231
PROFESSIONAL ENGINEER
DATE: 12/30/2025

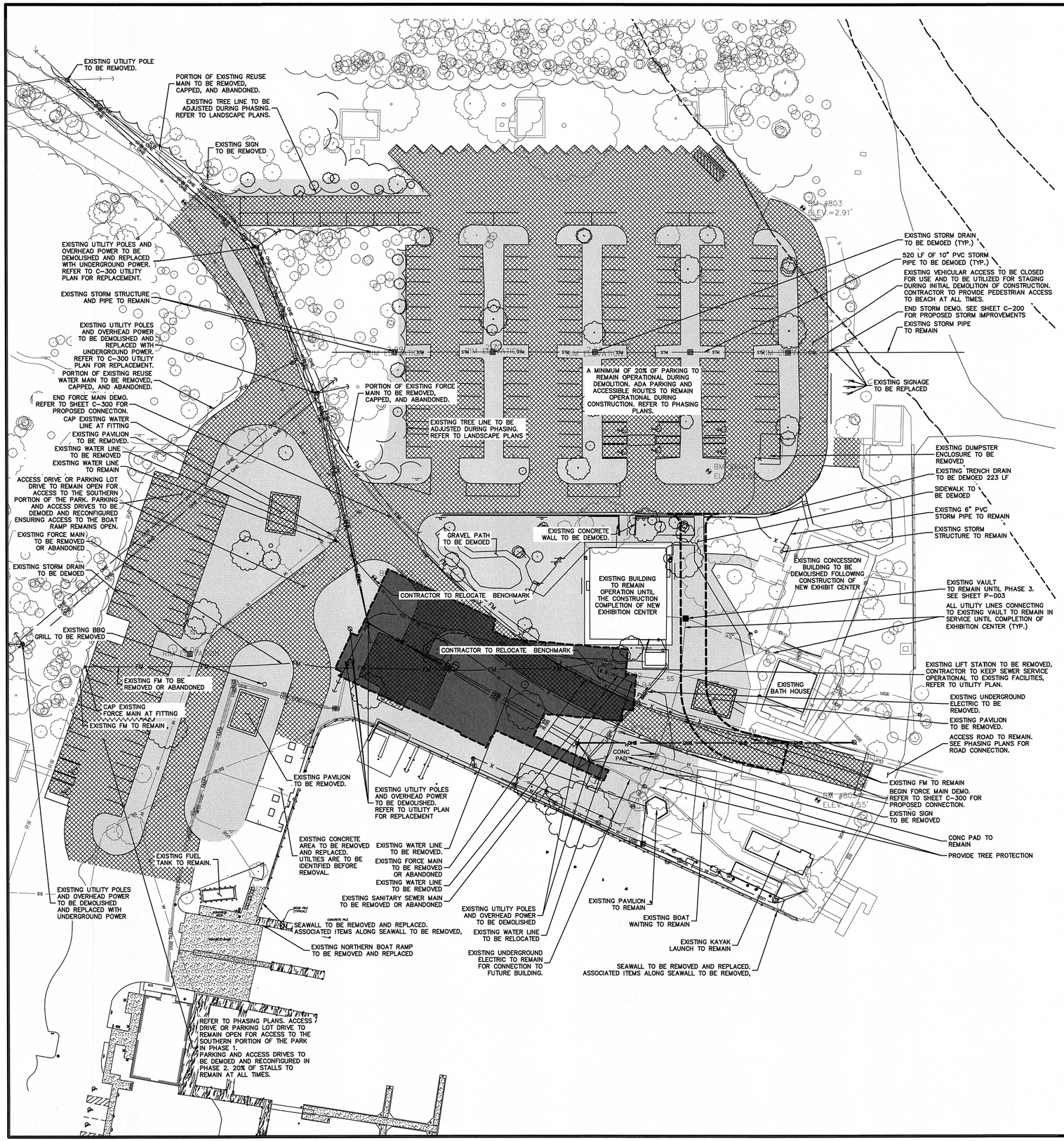
Sheet Title: GENERAL NOTES

Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: C-001

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-001 GENERAL NOTES December 30, 2025 11:31:45am K:\PRB_LDEV\John pennekamp state park\CAD\plotsheets\C-001 GENERAL NOTES.dwg



DEMOLITION LEGEND

- EXISTING ASPHALT/CONCRETE PAVEMENT TO BE REMOVED (3.12 AC)
- EXISTING LANDSCAPE/ HARDSCAPE TO BE REMOVED AND PARTIALLY REPLACED ACCORDING TO IMPROVEMENT PLANS. (2.18 AC)
- PROPOSED LOCATION OF FUTURE BUILDING
- EXISTING TREE(S) TO REMAIN
- EXISTING TREE(S) TO BE REMOVED
- OHE — EXISTING OVERHEAD ELECTRIC TO REMAIN
- OHE — EXISTING OVERHEAD ELECTRIC TO BE REMOVED
- UGE — EXISTING UNDERGROUND ELECTRIC TO REMAIN
- UGE — EXISTING UNDERGROUND ELECTRIC TO BE REMOVED
- W — EXISTING WATER LINE TO REMAIN
- W — EXISTING WATER LINE TO BE REMOVED
- SS — EXISTING SANITARY SEWER TO REMAIN
- SS — EXISTING SANITARY SEWER TO BE REMOVED
- FM — EXISTING FORCE MAIN TO REMAIN
- FM — EXISTING FORCE MAIN TO BE REMOVED
- X — EXISTING FENCE TO REMAIN
- X — EXISTING FENCE TO BE REMOVED
- TEMPORARY ACCESS ROAD TO BE MAINTAINED DURING DEMOLITION

DEMOLITION NOTES:

1. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT ALL EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
2. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
3. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION PERMITS.
4. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
5. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
6. CONTRACTOR TO COORDINATE WITH ALL UTILITY OWNERS PRIOR TO DEMOLITION TO ENSURE SERVICES HAVE BEEN DISCONNECTED.
7. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
8. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
9. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
10. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS.
11. SEE SITE AND IMPROVEMENTS PLANS FOR LIMITS AND GRADING OF RESURFACED DRIVEWAYS AND ENTRANCES.
12. CONSTRUCTION SHALL BE DISPOSED OF OFF SITE PER LOCAL ORDINANCE.
13. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY UNFORESEEN CONDITIONS.
14. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
15. IF DAMAGED AS A RESULT OF THIS CONTRACT, ANY ITEMS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
16. CONTRACTOR SHALL NOTIFY LOCAL UTILITIES 72 HOURS PRIOR TO DEMOLITION.
17. CONTRACTOR SHALL INSPECT OVER SITE PRIOR TO CONSTRUCTION START AND VERIFY THAT THE ALTA SURVEY INDICATES THE CORRECT TOPOGRAPHY. IF ANY INACCURACIES ARE NOTED, PLEASE CONTACT OWNER'S REPRESENTATIVE.
18. CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ALL UTILITIES AND COMPLY WITH REGULATIONS AND STANDARDS FOR EACH UTILITY.
19. CONTRACTOR SHALL PROVIDE BARRIERS, PERIMETER FENCING, PARTITIONS, PLANKING, BRACING, SHORING, LIGHTS AND SIGNS AS NECESSARY TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.

PHASING PLAN SEQUENCE:

SUMMARY:
THE INTENT OF THE PHASING SEQUENCE IS TO SHOW THREE PHASES OF SCHEMATIC CONSTRUCTION OPERATIONS FOR ALLOWING THE EXISTING FACILITIES TO REMAIN OPEN WHILE THE PROPOSED FACILITIES ARE TO BE ESTABLISHED. ONCE THE PROPOSED FACILITIES ARE ESTABLISHED, THE EXISTING FACILITIES ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.

PHASE 1:
THE FIRST PHASE WILL CONSIST OF EXISTING OPERATIONS OF THE SITE TO REMAIN OPEN. THIS WILL CONSIST OF THE EXISTING EXHIBIT CENTER, CONCESSION CENTER, AND BATH HOUSE TO REMAIN OPERATIONAL. THE LOCATION OF THE NEW BUILDING WILL BE LOCATED JUST SOUTH OF THE EXISTING EXHIBIT CENTER WHICH WILL IMPACT THE EXISTING LIFT STATION, EXISTING ACCESS ROAD, AND EXISTING UTILITIES. ALL EXISTING UTILITY LINES THAT SERVE THE EXISTING BUILDINGS ARE TO BE LEFT IN OPERATION BEFORE DISCONNECTION TO NEW UTILITIES. ALL SEWER LINES THAT ARE DISCHARGED TO THE EXISTING LIFT STATION WILL NEED TO BE ROUTED TO THE PROPOSED LIFT STATION BY A SEWER MAIN. ALL FORCE MAINS THAT ARE IMPACTED WILL NEED TO BE REROUTED IN ORDER TO KEEP DISCHARGE CONSTANT. THE EXISTING WATER LINES WILL ALSO NEED TO BE RELOCATED TO KEEP WATER SUPPLY AVAILABLE. NEW UNDERGROUND ELECTRICAL LINES ARE TO BE INSTALLED PRIOR TO REMOVAL OF EXISTING OVERHEAD POLES AND LINES. IN THIS PHASE ALL EXISTING IMPACTED UTILITIES ARE TO BE CONNECTED TO PROPOSED UTILITIES. THE EXISTING EASTERN ACCESS ROAD ALONG THE BEACH FRONTAGE IS TO BE CLOSED AND USED FOR PEDESTRIAN ACCESS. WESTERN PORTION OF BEACH PARKING LOT IS TO BE CLOSED FOR STAGING. A TEMPORARY ACCESS ROAD IS TO BE PROVIDED FOR CONTINUATION TO THE EASTERN PORTION OF THE PARK. ALL ADA ROUTES ARE TO REMAIN IN USE.

PHASE 2:
THE SECOND PHASE WILL CONSIST OF THE CONSTRUCTION OF THE NEW EXHIBIT BUILDING WITH THE EXISTING EXHIBIT CENTER AND OTHER FACILITIES TO REMAIN OPEN ALONG WITH UTILITIES. IN ADDITION, THE EXISTING PARKING LOTS ARE TO BE DEMOLISHED AND RECONFIGURED PER DESIGN IN THIS PHASE. THE PARKING LOTS ARE TO BE SEPARATED IN THIS PHASE FOR EASE OF AVAILABLE PARKING TO THE EXISTING FACILITIES. THE TEMPORARY ACCESS ROAD TO THE EASTERN PORTION OF THE PARK IS ALSO TO REMAIN AS IS FROM PHASE 1. THE WESTERN DRIVEWAY TO THE PARKING LOT IS TO BE CLOSED IN THIS PHASE AND CONSTRUCTED IN PHASE 3. ALL ADA ROUTES ARE TO REMAIN IN USE.

PHASE 3:
THE THIRD PHASE WILL CONSIST OF THE CONSTRUCTION OF THE NEW EXHIBIT CENTER AND DEMOLITION OF THE EXISTING EXHIBIT CENTER. THE TEMPORARY ACCESS ROAD IS TO BE REMOVED AND THE FINAL ACCESS ROAD IS TO BE INSTALLED. ALL EXISTING SIDEWALKS THAT CONFLICT WITH THE NEW LAYOUT ARE TO BE REMOVED AND REPLACED WITH PROPOSED HARDSCAPE AND LANDSCAPING. FINAL GRADING IS TO BE ESTABLISHED IN THIS PHASE. ALL NEW STORM STRUCTURES AND PIPES ARE TO BE INSTALLED PER FINAL LAYOUT. ALL PROPOSED ADA ROUTES ARE TO BE FINALIZED.

NOTE: THESE PHASES ARE ALL BASED ON SCHEMATIC DESIGN.

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3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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STATE PROJECT No.: 147402002

DESIGNER: ACF
DRAWN BY: LDA
REVIEWED BY: ACF

Consultant: K2M DESIGN
Key Largo, Florida
Fort Myers, Florida
Marathon, Florida
www.k2mdesign.com
PROFESSIONAL ENGINEERING (Civil, Structural, Building Electrical, Mechanical)
Based on Trust and Results
Construction Engineering Inspection (Level I)
Architecture, Engineering, Construction Management, Facility Asset Management

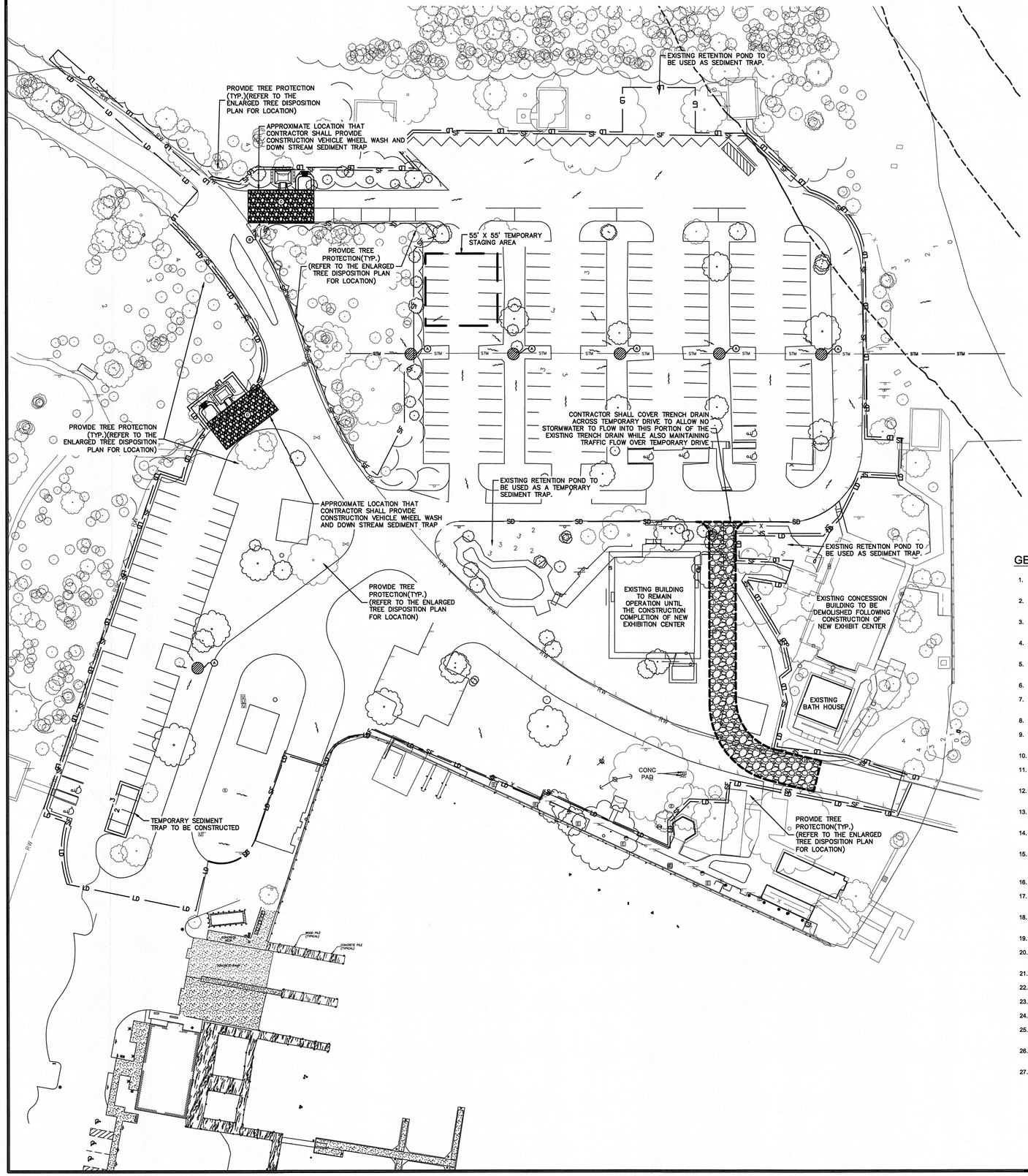
CARL ALBERT FISANO LICENSE No. 78551 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE 12/30/2025

Sheet Title: DEMOLITION PLAN
Project Title: JOHN PENNEKAMP STATE PARK

Sheet Number: C-002

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:DEMOLITION PLAN December 30, 2025 11:32:05am K:\VRB_LDEV\John pennekamp state park\CAD\plotsheets\C-003 DEMOLITION PLAN.dwg



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND

- TEMPORARY ACCESS ROAD TO BE MAINTAINED DURING DEMOLITION
- SF — PROPOSED SILT FENCE
- LD LD — PROPOSED LIMIT OF DISTURBANCE
- SD — PROPOSED SILT DIKE
- SURFACE WATER FLOW DIRECTION
- INLET PROTECTION (REFER TO DETAIL ON SHEET C-050)
- SWPP INFORMATION SIGN (REFER TO DETAIL ON SHEET C-050)
- EXISTING TREE(S) TO REMAIN
- EXISTING TREE(S) TO BE REMOVED

KEY NOTES:

- (A) CATCH BASIN PROTECTION
- (B) SWPPP SIGN
- (C) CONSTRUCTION ENTRANCE/ EXIT

TOTAL LIMITS OF DISTURBANCE = 6.32 ACRES

PHASING PLAN SEQUENCE:

SUMMARY:
THE INTENT OF THE PHASING SEQUENCE IS TO SHOW THREE PHASES OF SCHEMATIC CONSTRUCTION OPERATIONS FOR ALLOWING THE EXISTING FACILITIES TO REMAIN OPEN WHILE THE PROPOSED FACILITIES ARE TO BE ESTABLISHED. ONCE THE PROPOSED FACILITIES ARE ESTABLISHED, THE EXISTING FACILITIES ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.

PHASE 1:
THE FIRST PHASE WILL CONSIST OF EXISTING OPERATIONS OF THE SITE TO REMAIN OPEN. THIS WILL CONSIST OF THE EXISTING EXHIBIT CENTER, CONCESSION CENTER, AND BATH HOUSE TO REMAIN OPERATIONAL. THE LOCATION OF THE NEW BUILDING WILL BE LOCATED JUST SOUTH OF THE EXISTING EXHIBIT CENTER WHICH WILL IMPACT THE EXISTING LIFT STATION, EXISTING ACCESS ROAD, AND EXISTING UTILITIES. ALL EXISTING UTILITY LINES THAT SERVE THE EXISTING BUILDINGS ARE TO BE LEFT IN OPERATION BEFORE DISCONNECTION TO NEW UTILITIES. ALL SEWER LINES THAT ARE DISCHARGED TO THE EXISTING LIFT STATION WILL NEED TO BE ROUTED TO THE PROPOSED LIFT STATION BY A SEWER MAIN. ALL FORCE MAINS THAT ARE IMPACTED WILL NEED TO BE REROUTED IN ORDER TO KEEP DISCHARGE CONSTANT. THE EXISTING WATER LINES WILL ALSO NEED TO BE RELOCATED TO KEEP WATER SUPPLY AVAILABLE. NEW UNDERGROUND ELECTRICAL LINES ARE TO BE INSTALLED PRIOR TO REMOVAL OF EXISTING OVERHEAD POLES AND LINES. IN THIS PHASE ALL EXISTING IMPACTED UTILITIES ARE TO BE CONNECTED TO PROPOSED UTILITIES. THE EXISTING EASTERN ACCESS ROAD ALONG THE BEACH FRONTAGE IS TO BE CLOSED AND USED FOR PEDESTRIAN ACCESS. WESTERN PORTION OF BEACH PARKING LOT IS TO BE CLOSED FOR STAGING. A TEMPORARY ACCESS ROAD IS TO BE PROVIDED FOR CONTINUATION TO THE EASTERN PORTION OF THE PARK. ALL ADA ROUTES ARE TO REMAIN IN USE.

PHASE 2:
THE SECOND PHASE WILL CONSIST OF THE CONSTRUCTION OF THE NEW EXHIBIT BUILDING WITH THE EXISTING EXHIBIT CENTER AND OTHER FACILITIES TO REMAIN OPEN ALONG WITH UTILITIES. IN ADDITION, THE EXISTING PARKING LOTS ARE TO BE DEMOLISHED AND RECONFIGURED PER DESIGN IN THIS PHASE. THE PARKING LOTS ARE TO BE SEPARATED IN THIS PHASE FOR EASE OF AVAILABLE PARKING TO THE EXISTING FACILITIES. THE TEMPORARY ACCESS ROAD TO THE EASTERN PORTION OF THE PARK IS ALSO TO REMAIN AS IS FROM PHASE 1. THE WESTERN DRIVEWAY TO THE PARKING LOT IS TO BE CLOSED IN THIS PHASE AND CONSTRUCTED IN PHASE 3. ALL ADA ROUTES ARE TO REMAIN IN USE.

PHASE 3:
THE THIRD PHASE WILL CONSIST OF THE CONSTRUCTION OF THE NEW EXHIBIT CENTER AND DEMOLITION OF THE EXISTING EXHIBIT CENTER. THE TEMPORARY ACCESS ROAD IS TO BE REMOVED AND THE FINAL ACCESS ROAD IS TO BE INSTALLED. ALL EXISTING SIDEWALKS THAT CONFLICT WITH THE NEW LAYOUT ARE TO BE REMOVED AND REPLACED WITH PROPOSED HARDSCAPE AND LANDSCAPING. FINAL GRADING IS TO BE ESTABLISHED IN THIS PHASE. ALL NEW STORM STRUCTURES AND PIPES ARE TO BE INSTALLED PER FINAL LAYOUT. ALL PROPOSED ADA ROUTES ARE TO BE FINALIZED.

NOTE: THESE PHASES ARE ALL BASED ON SCHEMATIC DESIGN.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THE SITE MAP, THIS DRAWING ("THE STANDARD DETAILS"), THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
5. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST \ SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
17. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
21. SEE SITE PLAN FOR PERMANENT AND TEMPORARY SIGNAGE.
22. GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
23. REFER TO THE SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM PRODUCTS AND/OR HAZARDOUS WASTES.
24. REFER TO THE SPECIFICATIONS FOR RUN-OFF SAMPLING/MONITORING REQUIREMENTS IF APPLICABLE TO SITE DURING CONSTRUCTION.
25. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
26. WHERE THE LIMITS OF DISTURBANCE AND SILT FENCE FOLLOW THE PROPERTY LINE, THE LIMITS OF DISTURBANCE AND SILT FENCE SHALL RUN AT THE PROPERTY LINE THESE LINES ARE VISUALLY SHOWN 2' OUTSIDE THE PROPERTY LINE AND 1' INSIDE THE PROPERTY LINE, RESPECTIVELY FOR CLARITY.
27. TREE PROTECTION PROVIDED ON THE ENLARGED TREE DISPOSITION PLAN ON SHEETS L-102, L-103, L-104, L-105.

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (605)245-2157

SYMBOL	REVISION	DATE

DESIGNER: ACF
DRAWN BY: LDA
REVIEWED BY: ACF
Consultant: K2M DESIGN

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147402002

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Building Relationships
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ALBERT C. FISHER JR. — LICENSED LANDSCAPE ARCHITECT — No. LA0001281 — STATE OF FLORIDA — DATE: 02/06/2025 — PROFESSIONAL SEAL

Sheet Title: SWPPP - PHASE 1
Project Title: JOHN PENNEKAMP STATE PARK

Sheet Number: C-003

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:SWPPP - PHASE 1 December 30, 2025 11:31:58am K:\VRB_LDEV\John pennekamp state park\CAD\plansheets\C-002 SWPPP - PHASE 1.dwg

DEMOLITION NOTES:

1. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT ALL EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
2. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
3. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION PERMITS.
4. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
5. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
6. CONTRACTOR TO COORDINATE WITH ALL UTILITY OWNERS PRIOR TO DEMOLITION TO ENSURE SERVICES HAVE BEEN DISCONNECTED.
7. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
8. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
9. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
10. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS.
11. SEE SITE AND IMPROVEMENTS PLANS FOR LIMITS AND GRADING OF RESURFACED DRIVEWAYS AND ENTRANCES.
12. CONSTRUCTION SHALL BE DISPOSED OF OFF SITE PER LOCAL ORDINANCE.
13. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY UNFORESEEN CONDITIONS.
14. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
15. IF DAMAGED AS A RESULT OF THIS CONTRACT, ANY ITEMS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
16. CONTRACTOR SHALL NOTIFY LOCAL UTILITIES 72 HOURS PRIOR TO DEMOLITION.
17. CONTRACTOR SHALL INSPECT OVER SITE PRIOR TO CONSTRUCTION START AND VERIFY THAT THE ALTA SURVEY INDICATES THE CORRECT TOPOGRAPHY. IF ANY INACCURACIES ARE NOTED, PLEASE CONTACT OWNER'S REPRESENTATIVE.
18. CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ALL UTILITIES AND COMPLY WITH REGULATIONS AND STANDARDS FOR EACH UTILITY.
19. CONTRACTOR SHALL PROVIDE BARRIERS, PERIMETER FENCING, PARTITIONS, PLANKING, BRACING, SHORING, LIGHTS AND SIGNS AS NECESSARY TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.

DEMOLITION LEGEND

	EXISTING ASPHALT/CONCRETE/GRAVEL ROAD TO BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS (9806 SF)
	EXISTING LANDSCAPE/ HARDSCAPE TO BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS (1922 SF)
	EXISTING TREE(S) TO REMAIN
	EXISTING TREE(S) TO BE REMOVED
OHE	EXISTING OVERHEAD ELECTRIC TO REMAIN
OHE	EXISTING OVERHEAD ELECTRIC TO BE REMOVED
UGE	EXISTING UNDERGROUND ELECTRIC TO REMAIN
UGE	EXISTING UNDERGROUND ELECTRIC TO BE REMOVED
W	EXISTING WATER LINE TO REMAIN
SS	EXISTING SANITARY SEWER TO REMAIN
FM	EXISTING FORCE MAIN TO REMAIN
FM	EXISTING FORCE MAIN TO BE REMOVED
X	EXISTING FENCE TO REMAIN
X	EXISTING FENCE TO BE REMOVED
	TEMPORARY ACCESS ROAD TO BE MAINTAINED DURING DEMOLITION

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THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

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GW K2M GWIO roto Kimley»Horn

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (905)245-2157

ISSUE DATE:
COMP. FILE No.: 0000000
STATE PROJECT No.:

DESIGNER:
DRAWN BY:
REVIEWED BY:

Consultant: K2M DESIGN

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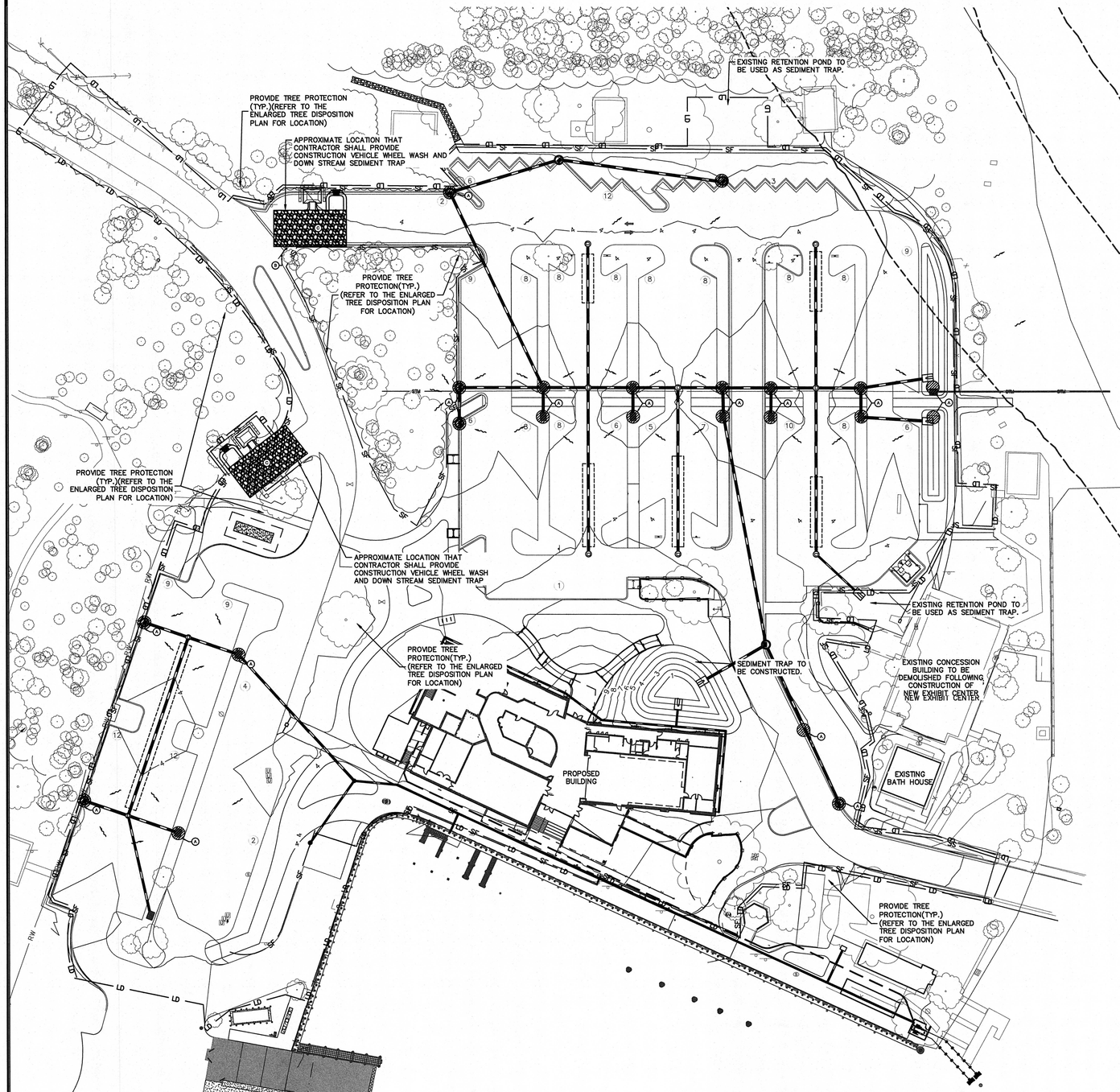
CARL FISHING LASSETT LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: 12/9/2025

Sheet Title: OFF-SITE IMPROVEMENTS

Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: C-004

PLOTTED:



LEGEND

- PROPERTY LINE
- SF — PROPOSED SILT FENCE
- LD — LD — PROPOSED LIMIT OF DISTURBANCE
- SD — PROPOSED SILT DIKE
- SURFACE WATER FLOW DIRECTION
- INLET PROTECTION (REFER TO DETAIL ON SHEET C-006)
- SWPP INFORMATION SIGN (REFER TO DETAIL ON SHEET C-006)

KEY NOTES:

- (A) CATCH BASIN PROTECTION
- (B) SWPPP SIGN
- (C) CONSTRUCTION ENTRANCE/ EXIT

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

TOTAL LIMITS OF DISTURBANCE = 6.32 ACRES

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES (2) AND INSTALL SILT FENCE. CONSTRUCT IMPROVEMENTS TO MAIN ACCESS DRIVE AND MEDIAN CUT-THROUGH.
2. CONTRACTOR TO INSTALL TEMPORARY PROTECTIVE BARRIER FENCING.
3. CONSTRUCT AND STABILIZE SEDIMENT BASIN AND DRAINAGE SWALES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL CONTROL DEVICES LISTED ABOVE)
4. INSTALL INLET PROTECTION AT EXISTING INLET(S).
5. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, CUTLET TRAPS, RISER PIPE DISCHARGE POINT, ETC.)
6. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

PHASE 2:
1. MAINTAIN APPLICABLE PHASE 1 BMPS.
2. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
3. INSTALL PROVIDED STORM, CATCH BASINS, AND UTILITIES.
4. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
5. CONSTRUCT CURB AND PAVING.
6. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.
7. PROTECT TREES AROUND PERIMETER OF SITE.

HALT ALL ACTIVITIES AND CONTACT THE CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH CONSULTANT AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION. SITE PREPARATION SHOULD BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION.

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THE SITE MAP, THIS DRAWING ("THE STANDARD DETAILS"), THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
5. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST \ SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
17. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
21. SEE SITE PLAN FOR PERMANENT AND TEMPORARY SIGNAGE.
22. GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
23. REFER TO THE SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM PRODUCTS AND/OR HAZARDOUS WASTES.
24. REFER TO THE SPECIFICATIONS FOR RUN-OFF SAMPLING/MONITORING REQUIREMENTS IF APPLICABLE TO SITE DURING CONSTRUCTION.
25. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
26. WHERE THE LIMITS OF DISTURBANCE AND SILT FENCE FOLLOW THE PROPERTY LINE, THE LIMITS OF DISTURBANCE AND SILT FENCE SHALL RUN AT THE PROPERTY LINE THESE LINES ARE VISUALLY SHOWN 2' OUTSIDE THE PROPERTY LINE AND 1' INSIDE THE PROPERTY LINE, RESPECTIVELY FOR CLARITY.
27. TREE PROTECTION PROVIDED ON THE ENLARGED TREE DISPOSITION PLAN ON SHEETS L-102, L-103, L-104, L-105.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION EXITS																								
TEMPORARY CONTROL MEASURES																								
SEDIMENT CONTROL BASINS																								
STRIP & STOCKPILE TOPSOIL																								
ROUGH GRADE																								
STORM FACILITIES																								
SITE CONSTRUCTION																								
PERMANENT CONTROL STRUCTURES																								
FOUNDATION / BUILDING CONSTRUCTION																								
FINISH GRADING																								
LANDSCAPING/SEED/FINAL STABILIZATION																								

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147402002

DESIGNER: ACF
DRAWN BY: LDA
REVIEWED BY: ACF
Consultant: K2M DESIGN
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Key West, Florida
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Building Relationships
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Owners' Representative | Key Largo | Key West | Marathon | Charlotte | Baltimore | Statewide
Architectural Design,
Interior Design,
Engineering,
Facility Asset Management

CARLOS FABANO LICENSE NO. 73291 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 1/30/2025

Sheet Title: SWPPP - PHASE 2
Project Title: JOHN PENNEKAMP STATE PARK

Sheet Number: C-005

PLOTTED:

Plotted By:Richmond, Donny Sheet Set:John Pennekamp State Park Layout:C-005 SWPPP - PHASE 2 December 30, 2025 11:32:28am K:\VRB_LDEV\john pennekamp state park\CAD\plotsheets\C-005 SWPPP - PHASE 2.dwg

Section 1	Project Name and location information:	JOHN PENNEKAMP STATE PARK, KEY LARGO, FLORIDA
Section 2	Describe the nature of the construction activity:	CONSTRUCTION ACTIVITIES CONSISTS OF THE DEMOLITION OF THE EXISTING STRUCTURE AND THE CLEARING AND MASS GRADING OF 6.32 AC OF THE FUTURE PROJECT, WHICH WILL CONSISTS OF A GAS STATION AND CONVENIENCE STORE.
Section 3	Describe the intended sequence of major soil disturbing activities:	AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 5 DAYS OF THE LAST DISTURBANCE . ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED.
Section 4	Total area of the site:	67 AC
Section 5	Total area of the site to be disturbed:	6.32 AC
Section 6	Existing data describing the soil or quality of any stormwater discharge from the site:	
Section 7	Estimate the drainage area size for each discharge point:	
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	
Section 9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments.	
	PHASE 1 1. INSTALL STABLIZED CONSTRUCTION ENTRANCE(S) AND EXIT(S) AND SWPPP SIGN 2. INSTALL ALL INLET PROTECTION DEVICES AND SILT FENCE PERTINENT TOT CURRENT LIMITS OF CONSTRUCITON. 3. PREPARE TEMPORARY PARKING AND STORAGE AREA. 4. CONSTRUCT SEDIMENT BASIN AS SHOWN. ONTACT CEEC FOR ALTERNATE LOCATION. 5. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (SWALES, ETC.) 6. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES. 7. INSTALL UNDERGROUND UTILITIES, STORM SEWERS, CURBS AND GUTTERS. 8. BEGIN GRADING.	
Section 10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.	
	TEMPORARY STABILIZATION: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA SEED AND 80 PARTS OF PENSACOLA BAHIA THE SEPARATE TYPES OF SEED SHALL BE BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE. PERMANENT STABILIZATION: DISTRUBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED PER LANDSCAPE PLAN NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.	
Section 11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.	
	STAKED SILT FENCE: THE STAKED SILT FENCES WILL BE CONSTRUCTED PER PLAN. THESE DEVICES WILL STOP AND DIVERT RUNOFF TO THE SEDIMENT BASINS. INLET PROTECTIONS: THE INLET PROTECTIONS WILL BE USED TO CAPTURE SEDIMENT RUNOFF FROM THE CONSTRUCTION SITE BEFORE DISCHARGE INTO THE MASTER STORMWATER SYSTEM. SEDIMENT TRAP: SEDIMENT TRAP WILL BE USED TO DIVERT AND TREAT SEDIMENT RUNOFF BEFORE DISCHARGE INTO THE MASTER STORMWATER SYSTEM. SILT DIKE: SILT DIKE WILL BE CONSTRUCTED PER PLAN. THESE DEVICES WILL STOP AND DIVERT RUNOFF TO THE SEDIMENT BASINS.	
Section 12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.	
	NO SEDIMENT BASINS ARE PROPOSED. SEDIMENT TRAPS ARE TO BE PLACED IN LIEU OF BASINS	
Section 13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.	
	DETENTION PONDS AND DIVERSION DITCHES.	

Section 14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site.
Section 15	Offsite vehicle tracking from construction entrances/exits:	Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.
Section 16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.
Section 17	The storage, application, generation and migration of all toxic substances:	All paints and other chemicals will be stored in a locked covered shed.
Section 18	Other:	Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A washdown area shall be designated at all times and will not be located in any area that will allow for the discharge of polluted runoff.
Section 19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.	
	Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent: • Silt fence shall be inspected at least weekly. Any required repairs shall be made immediately. Sediment deposits shall be removed when they reach approximately one-half the height of the barrier. • Maintenance shall be performed on the rock entrance when any void spaces are full of sediment. • Inlet(s)/outfalls shall be inspected immediately after each rain event and any required repairs to the filter inlets, silt fence, or filter fabric shall be performed immediately. • Bare areas of the site that were previously seeded shall be reseeded per manufactures' instructions. • Mulch and sod that has been washed out shall be replaced immediately. • Maintain all other areas of the site with proper controls as necessary.	
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	
	Qualified personnel will inspect all points of discharges, all disturbed areas of construction that have not been stabilized, constructed areas and locations where vehicles enter and exit the site, and all BMPs at least once every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater. Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice of Termination is filed.	
Section 21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	
	THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 40D-4 AND 40D-40. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH SFWMD'S "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT. 'THIS PLAN ALSO REFLECTS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.	
Section 22	All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:	
	"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."	

Section 22	Name	Title	Company Name, Address and Phone Number	Date

NOTE: CONTRACTOR SHALL FILL OUT THE RESPONSIBLE ENTITIES TABLE ABOVE.

RESPONSIBLE ENTITIES

THE SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE MEASURES IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWIN CERTIFICATION.

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THERE UNDER."

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THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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Bureau of Design and Construction
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SYMBOL	REVISION	DATE

GWK2M ARCHITECTS | CDL ENGINEERS | GWIO CURTIS + GOODEN ARCHITECTS | Kimley»Horn

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: ACF
Consultant: K2M DESIGN

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ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

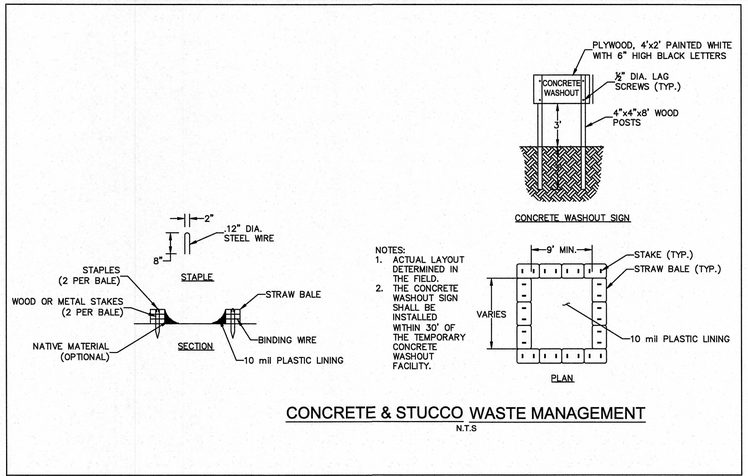
CARLOS A. PAJARO, P.E. No. 72691 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 12/30/2025

Sheet Title: SWPPP NOTES
Project Title: JOHN PENEKAMP STATE PARK
KEY LARGO FLORIDA

Sheet Number: C-006

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-006 SWPPP NOTES December 30, 2025 11:32:35am K:\VRB_LDEV\John pennekamp state park\CAD\plansheets\C-050 DEMOLITION AND EROSION CONTROL DETAILS.dwg



CONCRETE & STUCCO WASTE MANAGEMENT
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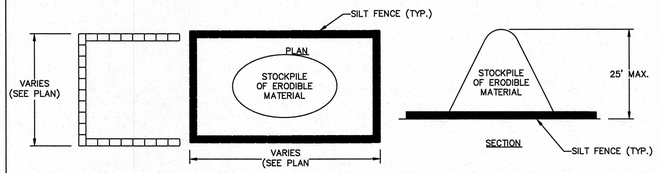

SEDIMENT CONTROL FOR STOCKPILING OF ERODIBLE MATERIAL
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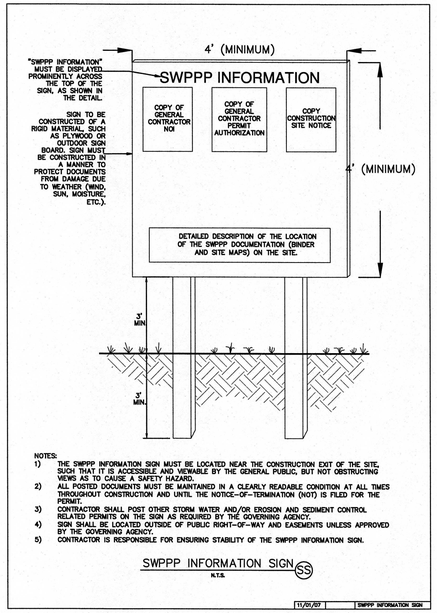
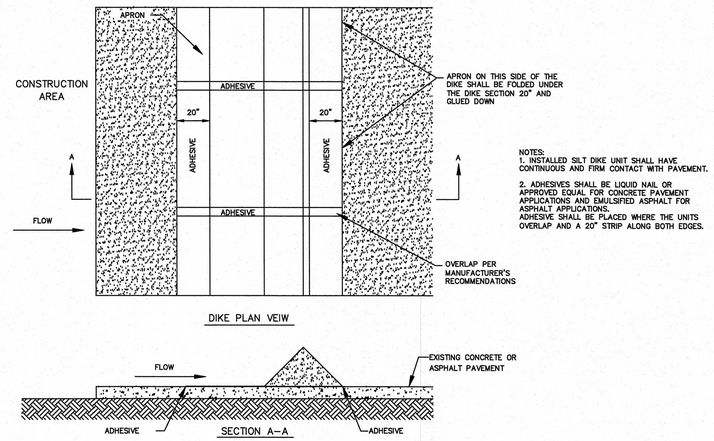


SWPPP INFORMATION SIGN (SS)
N.T.S



SILT DIKE ON EXISTING PAVEMENT
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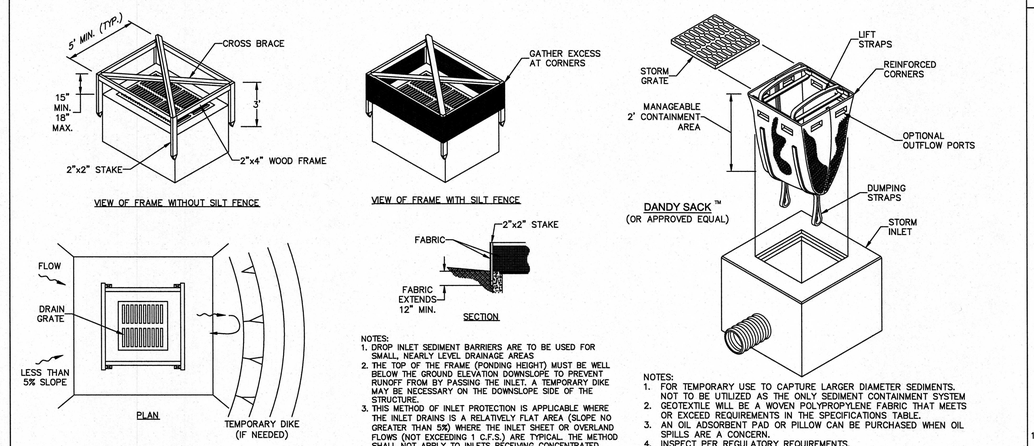

SILT FENCE INLET PROTECTION
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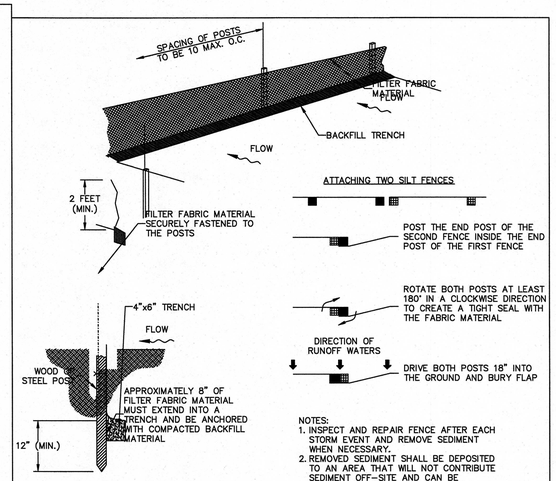
(OR APPROVED EQUAL)



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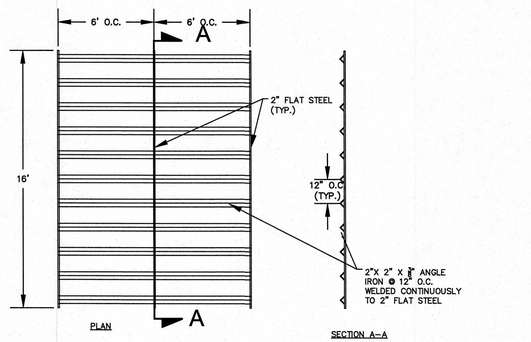
N.T.S



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N.T.S

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DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: ACF
Consultant:

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Architecture, Engineering, Interior Design, Facility Asset Management

CARLOS A. ACEVEDO FLORIDA REGISTERED ENGINEER 61531 STATE OF FLORIDA DATE: 12/30/2025 PROFESSIONAL ENGINEER

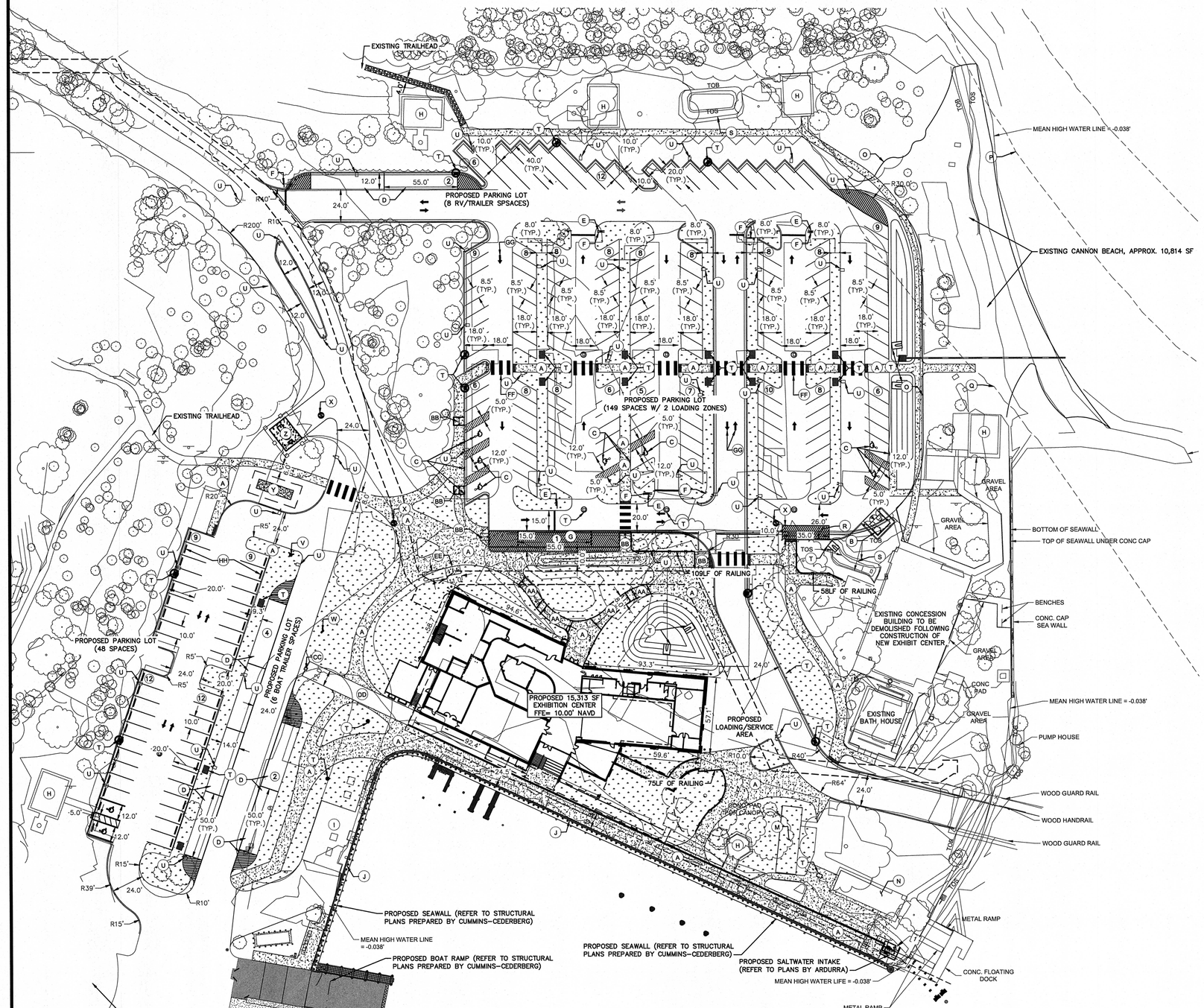
Sheet Title: DEMOLITION AND EROSION CONTROL DETAILS

Project Title: JOHN PENEKAMP STATE PARK
KEY LARGO FLORIDA

Sheet Number: C-050

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-050 DEMOLITION AND EROSION CONTROL DETAILS December 30, 2025 11:32:40am K:\VRB_LDEV\john pennekamp state park\CAD\plansheets\C-050 DEMOLITION AND EROSION CONTROL DETAILS.dwg



KEY NOTES:

- (A) SIDE WALK
- (B) PROPOSED DUMPSTER
- (C) PROPOSED ADA STALLS WITH ACCESS AISLE AND SIGNAGE
- (D) PROPOSED BOAT TRAILER PARKING
- (E) PROPOSED DO NOT ENTER SIGN
- (F) PROPOSED STOP SIGN
- (G) LOADING - DROP OFF ZONES
- (H) EXISTING PAVILION TO REMAIN
- (I) EXISTING FUELING AREA TO REMAIN
- (J) EXISTING BULKHEAD TO REMAIN
- (K) EXISTING BOAT RAMP TO REMAIN
- (L) EXISTING DIVE SHOP TO REMAIN
- (M) EXISTING BOAT WAITING AREA TO REMAIN
- (N) EXISTING KAYAK LAUNCH TO REMAIN
- (O) EXISTING LOCATION OF BEACH LINE
- (P) FEMA FLOOD LINE (ZONE VE)
- (Q) FEMA FLOOD LINE (ZONE AE)
- (R) PROPOSED NO PARKING ZONE
- (S) EXISTING POND/SWALE
- (T) PROPOSED STORM STRUCTURE
- (U) PROPOSED SITE LIGHTING FEATURE (TYP.) (MH 12 - REFER TO PHOTOMETRIC PLANS)
- (V) PROPOSED FIRE HYDRANT
- (W) PROPOSED FDC
- (X) PROPOSED SANITARY MANHOLE
- (Y) PROPOSED GENERATOR
- (Z) PROPOSED LIFT STATION
- (AA) PROPOSED ADA RAMP W/ HANDRAILS
- (BB) PROPOSED ADA CURB RAMP
- (CC) PROPOSED CHAINLINK FENCE W/ AUTHORIZED USERS ONLY SIGN
- (DD) PROPOSED 12' SERVICE DRIVE
- (EE) PROPOSED BIKE RACK
- (FF) PROPOSED CROSSWALK (REFER TO SITE PLAN DETAILS ON SHEET C-150)
- (GG) PROPOSED DIRECTIONAL ARROW
- (HH) PROPOSED WHEEL STOPS

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND

- (9) PARKING SPACES
- CONCRETE SIDEWALK
- PERVIOUS GRASS AREA
- GRAVEL WALKWAY AREA
- SITE LIGHTING FEATURE (MH 3.5 REFER TO PHOTOMETRIC PLANS)

PROJECT SITE DATA

LOCATION:

PARCEL ID: 00086010-000000, 00086650-000000, 00086970-000000
ADDRESS: 102601 OVERSEAS HIGHWAY (MM 102.5), KEY LARGO, FL 33037
ZONING: SPARSELY SETTLED(SS), NATIVE AREA (NA), OFFSHORE ISLAND AREA (OS)
LAND USE: CONSERVATION (C)
TYPE OF PROJECT: STATE PARK
FLOOD ZONE: ZONE "AE", ZONE "X"

OVERALL PROJECT AREA: 117.81 AC

PROJECT IMPROVEMENT AREA: 7.85 AC

BUILDING AREA: PROPOSED BUILDING SF = 15,804 SF

PERVIOUS AREA: 145,980 SF	3.35 AC	42.71%
BUILDING AREA: 16,824 SF	0.386 AC	4.92%
IMPERVIOUS AREA: 179,019 SF	4.11 AC	52.37%

SITE PARKING DATA

	EXISTING	PROPOSED
STANDARD STALLS	202 SPACES	189 SPACES
ADA STALLS	10 SPACES	9 SPACES
RV/BOAT TRAILER	0 SPACES	14 SPACES
TOTAL PARKING	212 SPACES	212 SPACES

TOTAL PARKING CHANGE: 0 SPACES

PROPOSED LOADING ZONES: 2 SPACES

REQUIRED PARKING

PARKING SHOWN IN THE TABLE BELOW IS TO ENCOMPASS THE PROJECT AREA AND ABUTTING USES THAT WILL UTILIZE THE GENERAL PARKING. OVERALL PARKING FOR AREAS OUTSIDE THE PROJECT AREA ARE SHOWN ON THE OVERALL SHEETS, C-101 AND C-102. THIS INCLUDES BUT NOT LIMITED TO: DIVE SHOP, RV PARKING, FAR BEACH, TRAILS, ETC.

114-67.C REQUIRED NUMBER OF OFF-STREET PARKING SPACES
COMMERCIAL (INDOOR) RECREATION - 5 SPACES FOR EVERY 1000 SF
COMMERCIAL (OUTDOOR) RECREATION - 5 SPACES FOR EVERY 1,000 SF
MARINAS (WET SLIPS)- 1.0 SPACE PER BERTH
CHARTER/GUIDE BOATS (SIX OR FEWER PASSENGERS) - 2.0 SPACES PER BERTH
PARTY AND CHARTER/GUIDE BOATS (SIX OR MORE PASSENGERS) - 0.3 SPACE PER PASSENGER CAPACITY

USE	CONDITIONS	REQUIRED
PROPOSED EXHIBITION CENTER (INDOOR REC)	15,313 SF	77
EXISTING CONCESSION CENTER AND BATH HOUSE (INDOOR REC)	5,510 SF	28
MARINAS (WET SLIPS)	5	5
CHARTER/GUIDE BOATS (SIX OR FEWER)	4	8
PARTY AND CHARTER/GUIDE BOATS (SIX OR MORE)	3 BOATS @ 25	23
CANNON BEACH (OUTDOOR REC)	10,814 SF	54
EXISTING PAVILIONS (OUTDOOR REC) (6 @ APPROX. 2,400 SF TOTAL)	2,400 SF	12
TOTAL REQUIRED PARKING		207 REQUIRED PARKING SPACES

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SITE NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS AND FOR THE SITE LIGHTING ELECTRICAL PLAN.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
6. WETLANDS ARE PRESENT.
7. MONUMENT SIGN FACES SHALL BE CONSTRUCTED BY OTHERS.
8. REFER TO ARCH. PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
9. ALL POSTS AND HARDWARE FOR ANY SIGNS INSTALLED ON THE SITE OR R/W WILL ADHERE TO THE REQUIREMENTS REFERENCED ON SHEET C-150.
10. (FFPC 1=18.3.2.4.1.1) FIRE DEPARTMENT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FT. THE DRIVING SURFACE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND MUST BE AN ALL-WEATHER DRIVING SURFACE CAPABLE OF SUPPORTING A 32-TON EMERGENCY VEHICLE.
11. CONTRACTOR TO MAINTAIN TEMPORARY CONSTRUCTION ACCESS AND SIDEWALK PATHWAY DURING CONSTRUCTION. CONTRACTOR TO CONFORM TO FDOT FY24-2025 MOT 102-650, 102-603, 102-655.
12. CONTRACTOR IS RESPONSIBLE TO PROTECT AND/OR REPLACE POST CONSTRUCTION ALL SURVEY MONUMENTATION WITHIN THE PROJECT LIMITS BY A FLORIDA LICENSED LAND SURVEYOR.
13. ALL PAVEMENT MARKINGS TO BE INSTALLED WITH SLIP RESISTANT PAINT.
14. SIDEWALK CURBING ALONG STORE FRONTAGE TO BE PAINTED TRAFFIC YELLOW.

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Division of Recreation and Parks
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DESIGNER: ACF
DRAWN BY: LDA
REVIEWED BY: ACF
Consultant:

CARL T. ALBURY JR. LICENSE NO. PE 87531 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 12/30/2025

Sheet Title: SITE PLAN
Project Title: JOHN PENNEKAMP STATE PARK

Sheet Number: C-100

PLOTTED:

Plotted By:Richmond, Donny Sheet Set:John Pennekamp State Park Layout:C-100 SITE PLAN December 30, 2025 11:33:00am K:\VRB_LDEV\John pennekamp state park\CAD\plotsheets\C-100 SITE PLAN.dwg



EXISTING OVERALL SITE DATA

PARCEL ID: 00086970-000000, 00085970-000000, 00085990-000000, 00085990-000100, 00086010-000000, 00086310-000000, 00086320-000000, 00086850-000000,
ADDRESS: 102601 OVERSEAS HIGHWAY (MM 102.5), KEY LARGO, FL 33037
ZONING: SPARSELY SETTLED(SS), NATIVE AREA (NA), OFFSHORE ISLAND AREA (OS)
FUTURE LAND USE: CONSERVATION (C)
TYPE OF PROJECT: STATE PARK

OVERALL SITE AREA:	121.97 AC	5,313,013 SF
OVERALL UPLAND AREA:	65.00 AC	2,831,400 SF
OPEN SPACE AREA:	107.48 AC	4,682,013 SF

EXISTING OSR CALCULATIONS

OPEN SPACE MEANS (IN RELATION TO OPEN SPACE RATIO CALCULATIONS) THAT PORTION OF ANY PARCEL OR AREA OF LAND OR WATER THAT IS REQUIRED TO BE MAINTAINED SUCH THAT THE AREA WITHIN ITS BOUNDARIES IS OPEN AND UNOBSTRUCTED FROM THE GROUND TO THE SKY.

REQUIRED OPEN SPACE RATIO= 95% * 5,313,013 = 5,047,362 SF/ 115.87 AC
OPEN SPACE RATIO= 107.48 AC/121.97 AC = 88.12%

BASED ON OSR CALCULATIONS ABOVE, THE EXISTING OVERALL SITE DOES NOT MEET OPEN SPACE RATIO.

EXISTING REQUIRED PARKING

PARKING SHOWN IN THE TABLE BELOW IS THE TOTAL DEVELOPED PARK AREA.
114-67.C REQUIRED NUMBER OF OFF-STREET PARKING SPACES
COMMERCIAL (INDOOR) RECREATION - 5 SPACES FOR EVERY 1,000 SF
COMMERCIAL (OUTDOOR) RECREATION - 5 SPACES FOR EVERY 1,000 SF
MARINAS (WET SLIPS)- 1.0 SPACE PER BERTH
CHARTER/GUIDE BOATS (SIX OR FEWER PASSENGERS) - 2.0 SPACES PER BERTH
PARTY AND CHARTER/GUIDE BOATS (SIX OR MORE PASSENGERS) - 0.3 SPACE PER PASSENGER CAPACITY
COMMERCIAL RETAIL 3.0 SPACES PER 1,000 SF
RV PARKS - 1.0 SPACE PER EACH RV SPACE
WAREHOUSING (STORAGE) - 1.0 SPACE PER 1,000 SF
OFFICES - 3.0 SPACES PER 1,000 SF
MOBILE HOME - 2.0 SPACES PER EACH MOBILE HOME
SINGLE-FAMILY DWELLING - 2.0 SPACES PER DWELLING UNIT OR HOME

USE	CONDITIONS	REQUIRED
EXISTING EXHIBITION CENTER (INDOOR REC)	4,452 SF	23
EXISTING CONCESSION CENTER (COMMERCIAL RETAIL)	5,510 SF	17
MARINAS (WET SLIPS)	21 SLIPS	5
CHARTER/GUIDE BOATS (SIX OR FEWER)	4 SLIPS	8
PARTY AND CHARTER/GUIDE BOATS (SIX OR MORE)	8 BOATS @ 25 EACH	60
CANNON BEACH (OUTDOOR REC)	10,814 SF	54
FAR BEACH (OUTDOOR REC)	9,717 SF	49
EXISTING PAVILIONS (OUTDOOR REC) (15 @ APPROX. 10,697 SF TOTAL)	10,697 SF	54
CONTINUED		

EXISTING DIVE SHOP (COMMERCIAL RETAIL)	2,671 SF	8
RV PARKING	53 SPACES	53
EXISTING TRAILS (OUTDOOR REC)	20,600 SF	103
EXISTING PLAYGROUND (OUTDOOR REC)	1,755 SF	9
EXISTING MAINTENANCE BUILDING (WAREHOUSE/STORAGE)	2,152 SF	3
EXISTING RANGER AND ADMIN BUILDING (OFFICE)	3,223 SF	10
EXISTING MOBILE HOME	2 HOMES	4
EXISTING SINGLE-FAMILY DWELLING	1 HOME	2
TOTAL REQUIRED PARKING		453 REQUIRED PARKING SPACES (444 STANDARD + 9 ADA)

EXISTING REQUIRED RV/BOAT TRAILER PARKING

PARKING SHOWN IN THE TABLE BELOW IS THE TOTAL DEVELOPED PARK AREA.
114-67.C REQUIRED NUMBER OF OFF-STREET PARKING SPACES

BOAT RAMPS - 6 SPACES PER RAMP (14X55 FEET STALLS)

USE	CONDITIONS	REQUIRED
BOAT RAMPS	2 RAMPS	12 SPACES

EXISTING OVERALL PROVIDED SITE PARKING DATA

	EXISTING PROVIDED
STANDARD STALLS	393
ADA STALLS	20
RV/BOAT TRAILER	93
TOTAL PARKING	506

SITE NOTES

1. ROAD WIDTHS ARE 17' EACH LANE
2. CAMPING AREAS INCLUDE ROADS AND SIZE OF SPACES
3. PARKING LORS SIZES DERIVED BY AERIAL PHOTO MEASUREMENTS WHICH WERE GROUND TRUTHED
4. SIZE OF NATURE TRAILS WERE MEASURE ON SITE FOR LENGTH AND WIDTH
5. EXISTING BUILDING SIZES WERE MEASURED ON SITE AND VERIFIED WITH SURVEY/AERIAL.
6. OPEN SPACE AREAS CALCULATED VIA AERIAL PHOTOS FROM EITHER MONROE COUNTY PROPERTY APPRAISER OR VIA MONROE COUNTY GIS AND WERE GROUND TRUTHED.
7. FLOOR AREAS INCLUDE ANY BUILDINGS THAT ARE FOUND ON SITE EXCEPT FOR BATHROOMS AND PAVILIONS.
8. IT IS ASSUMED THERE IS 4,180 LF OF TRAILS EACH AT 5' WIDE = 20,900 SF

EXISTING FAR CALCULATIONS

FLOOR AREA RATIO (FAR) MEANS THE TOTAL FLOOR AREA OF THE BUILDING(S) AND/OR ANY OTHER COVERED AND ENCLOSED STRUCTURE(S) ON A SITE DIVIDED BY THE GROSS AREA OF THE SITE.

MAXIMUM FLOOR AREA RATIO (FAR) = 0.05
EXISTING FAR: 23,347 SF/2,831,400 SF= 0.0082

BASED ON THE ABOVE CALCULATIONS, THE EXISTING SITE MEETS THE REQUIRED FAR.

BUILDING SIZES

RESIDENTIAL:

BUILDING 1:	2,604 SF
BUILDING 2:	1,024 SF
BUILDING 7:	945 SF
TOTAL:	4,574 SF

BUILDING SIZES

NON-RESIDENTIAL:

BUILDING 3:	1,314 SF
BUILDING 4:	2,188 SF
BUILDING 5:	1,909 SF
BUILDING 6:	2,152 SF
BUILDING 8:	2,671 SF
BUILDING 9:	4,087 SF
BUILDING 10:	4,452 SF
TOTAL:	18,773 SF

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3800 Commonwealth Blvd, Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147402002

DESIGNER: ACF
DRAWN BY: LDA
REVIEWED BY: ACF
Consultant: K2M DESIGN

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CARL A. LASANO, P.E. LICENSE NO. 72561 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 12/30/2025

Sheet Title: EXISTING OVERALL PARK PLAN
Project Title: JOHN PENNEKAMP STATE PARK

Sheet Number: C-101

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:EXISTING OVERALL PARK PLAN December 30, 2025 11:33:14am K:\VRB_LDEV\john pennekamp state park\CAD\plansheets\C-101 EXISTING OVERALL PARK PLAN.dwg



NORTH

GRAPHIC SCALE IN FEET
0 75 150 300

SITE NOTES

1. ROAD WIDTHS ARE 17' EACH LANE
2. CAMPING AREAS INCLUDE ROADS AND SIZE OF SPACES
3. PARKING LORS SIZES DERIVED BY AERIAL PHOTO MEASUREMENTS WHICH WERE GROUND TRUTHED
4. SIZE OF NATURE TRAILS WERE MEASURE ON SITE FOR LENGTH AND WIDTH
5. EXISTING BUILDING SIZES WERE MEASURED ON SITE AND VERIFIED WITH SURVEY/AERIAL.
6. OPEN SPACE AREAS CALCULATED VIA AERIAL PHOTOS FROM EITHER MONROE COUNTY PROPERTY APPRAISER OR VIA MONROE COUNTY GIS AND WERE GROUND TRUTHED.
7. FLOOR AREAS INCLUDE ANY BUILDINGS THAT ARE FOUND ON SITE EXCEPT FOR BATHROOMS AND PAVILIONS.
8. IT IS ASSUMED THERE IS 4,180 LF OF TRAILS EACH AT 5' WIDE = 20,900 SF
9. EXISTING CONCESSION CENTER IS TO BE DEMOLISHED AS THE NEW EXHIBITION CENTER IS OPEN, THEREFORE THOSE CALCULATIONS HAVE BEEN REMOVED IN THE PROPOSED CONDITION

PROPOSED FAR CALCULATIONS

FLOOR AREA RATIO (FAR) MEANS THE TOTAL FLOOR AREA OF THE BUILDING(S) AND/OR ANY OTHER COVERED AND ENCLOSED STRUCTURE(S) ON A SITE DIVIDED BY THE GROSS AREA OF THE SITE.

MAXIMUM FLOOR AREA RATIO (FAR) = 0.05
PROPOSED FAR: 30,121 SF/2,831,400 SF= 0.011

BASED ON THE ABOVE CALCULATIONS, THE PROPOSED SITE MEETS THE REQUIRED FAR.

BUILDING SIZES
RESIDENTIAL:

BUILDING 1:	2,604 SF
BUILDING 2:	1,024 SF
BUILDING 7:	945 SF
TOTAL:	4,574 SF

BUILDING SIZES
NON-RESIDENTIAL:

BUILDING 3:	1,314 SF
BUILDING 4:	2,188 SF
BUILDING 5:	1,909 SF
BUILDING 6:	2,152 SF
BUILDING 8:	2,671 SF
BUILDING 9:	15,313 SF
TOTAL:	25,547 SF

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PROPOSED OVERALL SITE DATA

PARCEL ID: 00086970-000000, 00085970-000000, 00085990-000000, 00085990-000100, 00086010-000000, 00086310-000000, 00086320-000000, 00086850-000000,
ADDRESS: 102601 OVERSEAS HIGHWAY (MM 102.5), KEY LARGO, FL 33037
ZONING: SPARSELY SETTLED(SS), NATIVE AREA (NA), OFFSHORE ISLAND AREA (OS)
FUTURE LAND USE: CONSERVATION (C)
TYPE OF PROJECT: STATE PARK

OVERALL SITE AREA:	121.97 AC	5,313,013 SF
OVERALL UPLAND AREA:	65.00 AC	2,831,400 SF
OPEN SPACE AREA:	107.35 AC	4,676,124 SF

PROPOSED OSR CALCULATIONS

OPEN SPACE MEANS (IN RELATION TO OPEN SPACE RATIO CALCULATIONS) THAT PORTION OF ANY PARCEL OR AREA OF LAND OR WATER THAT IS REQUIRED TO BE MAINTAINED SUCH THAT THE AREA WITHIN ITS BOUNDARIES IS OPEN AND UNOBSTRUCTED FROM THE GROUND TO THE SKY.

REQUIRED OPEN SPACE RATIO= 95% * 5,313,013 = 5,047,362 SF/ 115.87 AC
OPEN SPACE RATIO= 107.35 AC/121.97 AC = 88.01%

BASED ON OSR CALCULATIONS ABOVE, THE PROPOSED OVERALL SITE DOES NOT MEET OPEN SPACE RATIO, HOWEVER THE DECREASE IN OPEN SPACE IS NEGLIGIBLE AS THE PROPOSED DEVELOPMENT IS WITHIN OVERALL DEVELOPED/NON-OPEN SPACE AREA..

PROPOSED REQUIRED PARKING

PARKING SHOWN IN THE TABLE BELOW IS THE TOTAL DEVELOPED PARK AREA.
114-67.C REQUIRED NUMBER OF OFF-STREET PARKING SPACES
COMMERCIAL (INDOOR) RECREATION - 5 SPACES FOR EVERY 1,000 SF
COMMERCIAL (OUTDOOR) RECREATION - 0 SPACES FOR EVERY 1,000 SF
MARINAS (WET SLIPS)- 1.0 SPACE PER BERTH
CHARTER/GUIDE BOATS (SIX OR FEWER PASSENGERS) - 2.0 SPACES PER BERTH
PARTY AND CHARTER/GUIDE BOATS (SIX OR MORE PASSENGERS) - 0.3 SPACE PER PASSENGER CAPACITY
COMMERCIAL RETAIL 3.0 SPACES PER 1,000 SF
RV PARKS - 1.0 SPACE PER EACH RV SPACE
WAREHOUSING (STORAGE) - 1.0 SPACE PER 1,000 SF
OFFICES - 3.0 SPACES PER 1,000 SF
MOBILE HOME - 2.0 SPACES PER EACH MOBILE HOME
SINGLE-FAMILY DWELLING - 2.0 SPACES PER DWELLING UNIT OR HOME

USE	CONDITIONS	REQUIRED
PROPOSED EXHIBITION CENTER (INDOOR REC)	15,313 SF	77
MARINAS (WET SLIPS)	21 SLIPS	5
CHARTER/GUIDE BOATS (SIX OR FEWER)	4 SLIPS	8
PARTY AND CHARTER/GUIDE BOATS (SIX OR MORE)	8 BOATS @ 25 EACH	60
CANNON BEACH (OUTDOOR REC)	10,814 SF	54
FAR BEACH (OUTDOOR REC)	9,717 SF	49
EXISTING PAVILIONS (OUTDOOR REC) (11 @ APPROX. 8,443 SF TOTAL)	8,443 SF	43
CONTINUED		

EXISTING DIVE SHOP (COMMERCIAL RETAIL)	2,671 SF	8
RV PARKING	53 SPACES	53
EXISTING TRAILS (OUTDOOR REC)	20,600 SF	103
EXISTING PLAYGROUND (OUTDOOR REC)	1,755 SF	9
EXISTING MAINTENANCE BUILDING (WAREHOUSE/STORAGE)	2,152 SF	3
EXISTING RANGER AND ADMIN BUILDING (OFFICE)	3,223 SF	10
EXISTING MOBILE HOME	2 HOMES	4
EXISTING SINGLE-FAMILY DWELLING	1 HOME	2
TOTAL REQUIRED PARKING		488 REQUIRED PARKING SPACES (479 STANDARD + 9 ADA)

PROPOSED REQUIRED RV/BOAT TRAILER PARKING

PARKING SHOWN IN THE TABLE BELOW IS THE TOTAL DEVELOPED PARK AREA.
114-67.C REQUIRED NUMBER OF OFF-STREET PARKING SPACES

BOAT RAMPS - 6 SPACES PER RAMP (14X55 FEET STALLS)

USE	CONDITIONS	REQUIRED
BOAT RAMPS	2 RAMPS	12 SPACES

PROPOSED OVERALL PROVIDED SITE PARKING DATA

	EXISTING PROVIDED
STANDARD STALLS	373
ADA STALLS	19
RV/BOAT TRAILER	109
TOTAL PARKING	501

OVERALL COMPARISON FROM EXISTING TO PROPOSED PARKING IS A NET CHANGE OF -5. THIS IS DUE TO PROVIDING CONFORMING PARKING SPACES AND DRIVE AISLES PER THE LATEST LDC.

GW K2M TOBI Kimley»Horn roto
CORTS + GWIO ARCHITECTS

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 14740200 2

DESIGNER: ACF
DRAWN BY: LDA
REVIEWED BY: ACF
Consultant: K2M DESIGN

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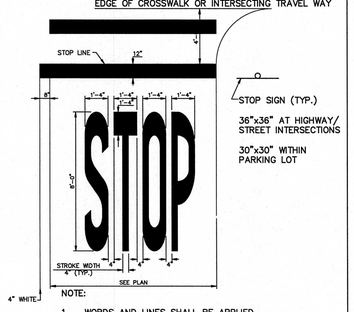
FLORIDA REGISTERED PROFESSIONAL ENGINEER
CARL F. PAGANO
No. 72951
STATE OF FLORIDA
DATE: 12/30/2025

Sheet Title: PROPOSED OVERALL PARK PLAN
Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: C-102

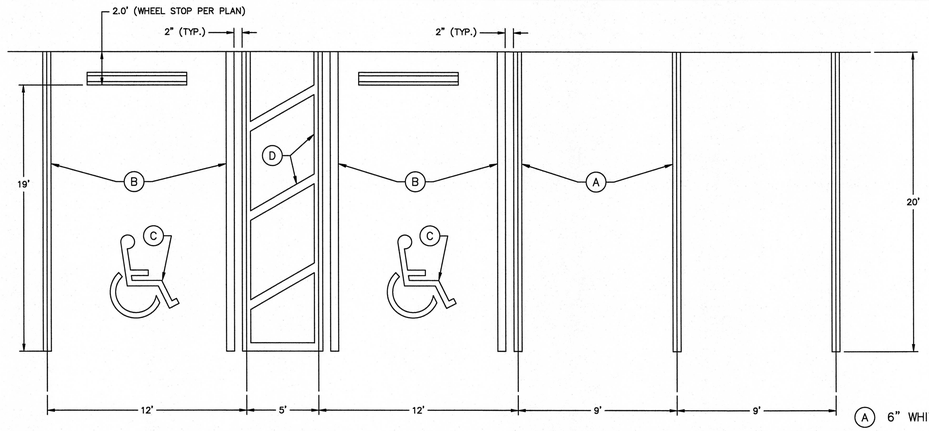
PLOTTED:



NOTE:

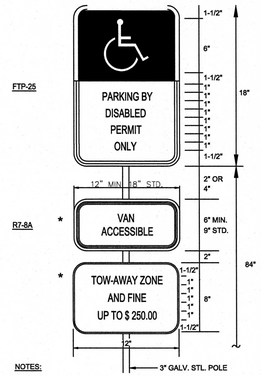
1. WORDS AND LINES SHALL BE APPLIED IN ACCORDANCE WITH SECTIONS 3B.16 AND 3B.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS AND BAR ARE TO BE PAINTED RETROREFLECTIVE WHITE.

STOP SIGNAGE AND MARKING



(A) 6" WHITE
(B) 6" BLUE
(C) 5" WHITE
(D) 6" WHITE @ 60° (EQUALLY SPACED)

PARKING
N.T.S

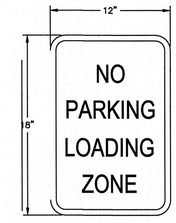


NOTES:

SIGNS FTP-25 AND R7-8A SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX NO. 17355 AND SHALL MEET THE REQUIREMENTS OF FLORIDA STATUTES 316.1955 AND 316.1956.

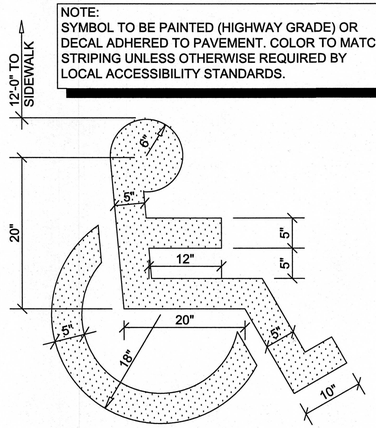
SIGNS "$250.00 FINE" AND "R7-8A" PER LOCAL REQUIREMENTS.

HANDICAPPED SIGN DETAIL



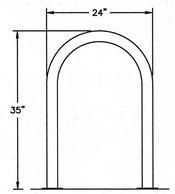
NO PARKING LOADING ZONE SIGN
N.T.S

NOTE:
SYMBOL TO BE PAINTED (HIGHWAY GRADE) OR DECAL ADHERED TO PAVEMENT. COLOR TO MATCH STRIPING UNLESS OTHERWISE REQUIRED BY LOCAL ACCESSIBILITY STANDARDS.



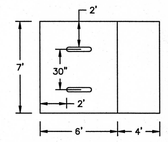
ACCESSIBLE PARKING PAVEMENT STRIPING DETAIL

SCALE: N.T.S.



DERO BIKE RACK CO.
504 MALCOLM AVENUE SE
MINNEAPOLIS, MN 55414
PHONE: 800-891-9298

HOOP RACK
(OR APPROVED EQUAL)

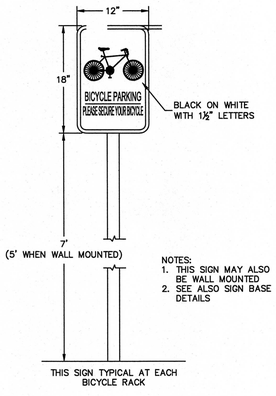


SPACE REQUIREMENTS AND CLEARANCES

PLACEMENT CONSIDERATIONS
IF RACKS ARE TO BE PLACED IN 'PARALLEL,' PLEASE ALLOW A MINIMUM OF 30" (INCHES) ON CENTER TO ALLOW SPACING BETWEEN BICYCLES.

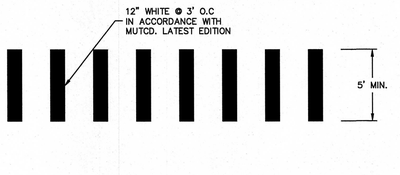
IF RACKS ARE TO BE PLACED IN 'SERIES,' PLEASE ALLOW 14' ON CENTER OF SPACING BETWEEN THE RACKS. THIS PERMITS 6' (FEET) CLEARANCE FOR BICYCLES ON EACH RACK WITH A 4' (FEET) COMMON AREA IN BETWEEN FOR INGRESS AND EGRESS.

BICYCLE RACK
N.T.S

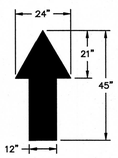


NOTES:
1. THIS SIGN MAY ALSO BE WALL MOUNTED
2. SEE ALSO SIGN BASE DETAILS

BICYCLE PARKING SIGN
N.T.S

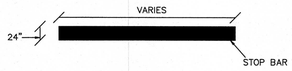


CROSSWALK DETAILS
N.T.S



NOTE: ALL TRAFFIC FLOW ARROWS TO BE REFLECTIVE WHITE PAINT

ON-SITE TRAFFIC FLOW ARROW
N.T.S



NOTE:

1. STOP BAR IS TO BE PAINTED RETROREFLECTIVE WHITE. LINES SHALL BE APPLIED IN ACCORDANCE WITH SECTIONS 3B.16 AND 3B.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE FOR STREETS AND HIGHWAYS.
2. STOP BAR SHALL BE IN LINE WITH A PROPOSED STOP SIGN (R1-1).

STOP SIGNAGE AND MARKING
N.T.S

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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Facility Asset Management

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: AJ
Consultant:

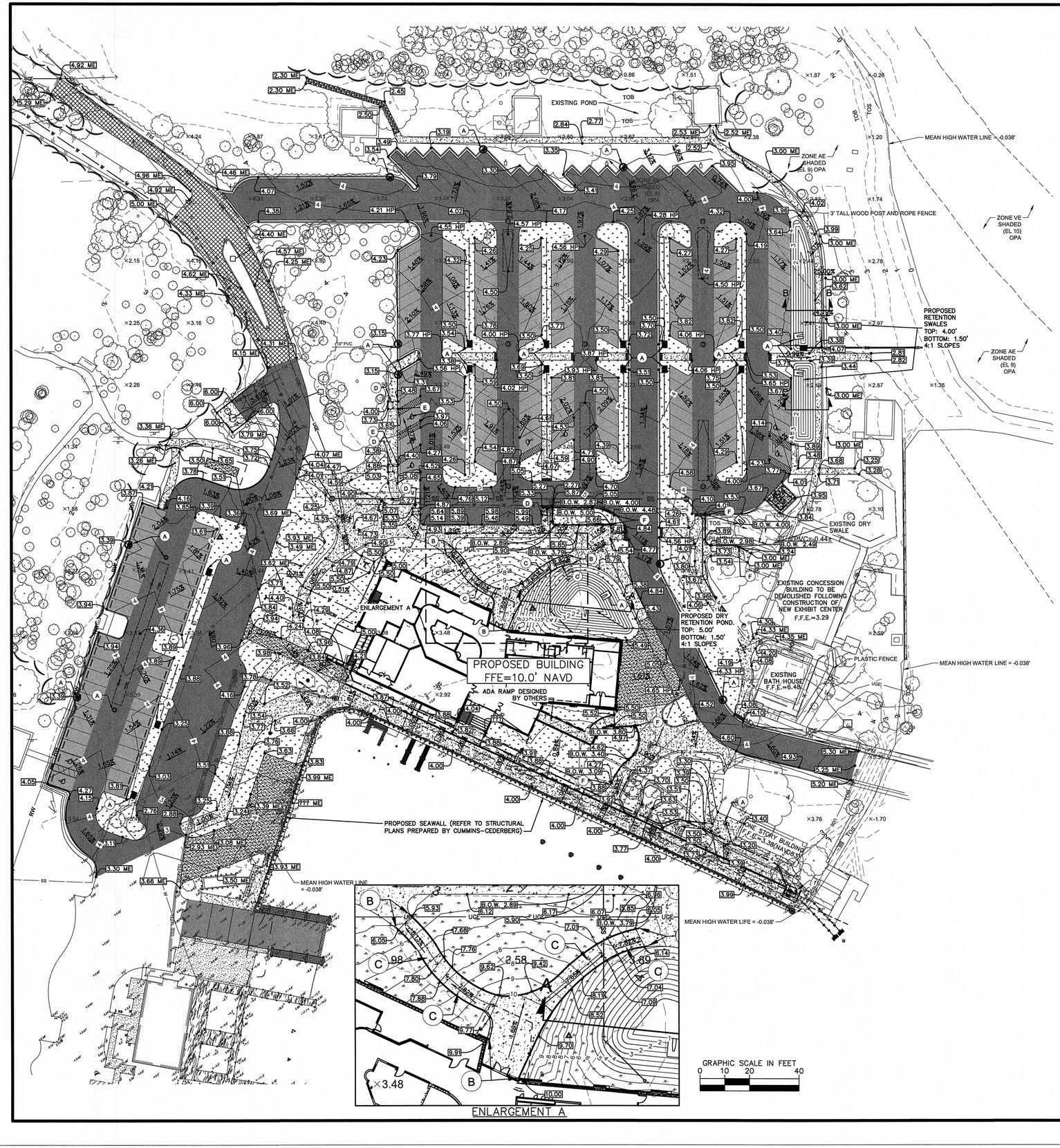


Sheet Title: SITE PLAN DETAILS
Project Title: JOHN PENEKAMP STATE PARK
KEY LARGO FLORIDA

Sheet Number: C-150

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-150 SITE PLAN DETAILS December 30, 2025 11:33:39am K:\VRB_LDEV\john pennekamp state park\CAD\plansheets\C-150 SITE PLAN DETAILS.dwg



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED DRAINAGE FLOW
- PROPOSED STORM MANHOLE (SOLID CASTING)
- PROPOSED STORM MANHOLE (ROUND INLET CASTING)
- PROPOSED STORM MANHOLE/ CATCH BASIN (CURB INLET CASTING)
- PROPOSED STORM SEWER CLENOUT
- PROPOSED FLARED END SECTION
- PROPOSED RIPRAP
- PROPOSED STORM SEWER
- 0.00 PROPOSED SPOT ELEVATION
- 0.00 HP PROPOSED HIGH POINT ELEVATION
- 0.00 LP PROPOSED LOW POINT ELEVATION
- 0.00 / 0.00 PROPOSED TOP OF CURB ELEVATION / PROPOSED PAVEMENT ELEVATION
- ±0.00 MEG MATCH EXISTING ELEVATION
- 0.0% PROPOSED DRAINAGE DIRECTION
- 0.00% PROPOSED ADA SLOPE
- STANDARD DUTY ASPHALT PAVEMENT (REFER TO DETAIL ON SHEET C-250)
- HEAVY DUTY ASPHALT (REFER TO DETAIL ON SHEET C-250)
- HEAVY DUTY CONCRETE (REFER TO DETAIL ON SHEET C-250)
- CONCRETE SIDEWALK (REFER TO SHEET C-250)
- MILL AND OVERLAY (REFER TO SHEET C-250)

KEY NOTES:

(A) PROPOSED STORM STRUCTURE
(B) PROPOSED START/END ADA HANDRAILS PER ADAAG CODE §405.8, §505
(C) PROPOSED ADA RAMP PER ADAAG CODE §405
(D) PROPOSED ADA CURB RAMP PER ADAAG CODE §406
(E) FLUSHED PAVEMENT
(F) START/END OF PROPOSED FDOT CANTILEVER RETAINING WILL (C-I-P) INDEX 400-010

PAVING AND GRADING NOTES

1. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
4. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST FDOT DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
6. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
7. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
8. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
9. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
10. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
11. ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
12. CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
13. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER-COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
14. ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED.
15. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
16. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
17. LANDSCAPE ISLANDS IN PARKING AREA TO BE BERMED 18" ABOVE BACK OF CURB ELEVATION.

ELEVATION DATUM

ELEVATIONS ESTABLISHED WITH GPS STATIC OBSERVATIONS UTILIZING ONLINE POSITIONING USER SERVICE (OPS) FOR POST-PROCESSING. THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IN US SURVEY FEET.

CONTROL MONUMENTS:

BENCHMARK NAME: BM #800
PUBLISHED ELEVATION: 3.48'
MONUMENT DESCRIPTION: IRON ROD (IR) WITH CAP LABELED "LB7979" SET IN THE MEDIAN BETWEEN A "STOP" SIGN AND A "NO LARGE VEHICLES PERMITTED" SIGN ON THE SOUTH SIDE OF THE ENTRANCE DRIVE.

BENCHMARK NAME: BM #801
PUBLISHED ELEVATION: 4.98'
MONUMENT DESCRIPTION: IR WITH CAP LABELED "LB7979" SET IN THE CENTER MEDIAN OF THE ENTRANCE DRIVE.

BENCHMARK NAME: BM #802
PUBLISHED ELEVATION: 3.94'
MONUMENT DESCRIPTION: IR WITH CAP LABELED "LB7979" SET ON THE NORTH SIDE OF THE ENTRANCE DRIVE BETWEEN THE LIFT STATION AND THE EDGE OF THE PAVEMENT.

BENCHMARK NAME: BM #803
PUBLISHED ELEVATION: 2.91'
MONUMENT DESCRIPTION: IR WITH CAP LABELED "LB7979" SET AT THE NORTHEASTERN CORNER OF THE PARKING LOT BEHIND THE ROPE AND POST FENCE.

BENCHMARK NAME: BM #804
PUBLISHED ELEVATION: 2.60'
MONUMENT DESCRIPTION: IR WITH CAP LABELED "LB7979" SET IN THE MEDIAN ON THE SOUTHEASTERN SIDE OF THE PARKING LOT, APPROXIMATELY 10 FEET EAST OF THE SIDEWALK.

BENCHMARK NAME: BM #805
PUBLISHED ELEVATION: 4.55'
MONUMENT DESCRIPTION: IR WITH CAP LABELED "LB7979" SET ON THE SOUTH SIDE OF THE ENTRANCE DRIVE BETWEEN THE EDGE OF THE PAVEMENT AND A ONE-STORY WOODEN STRUCTURE.

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DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: AJ
Consultant: K2M DESIGN

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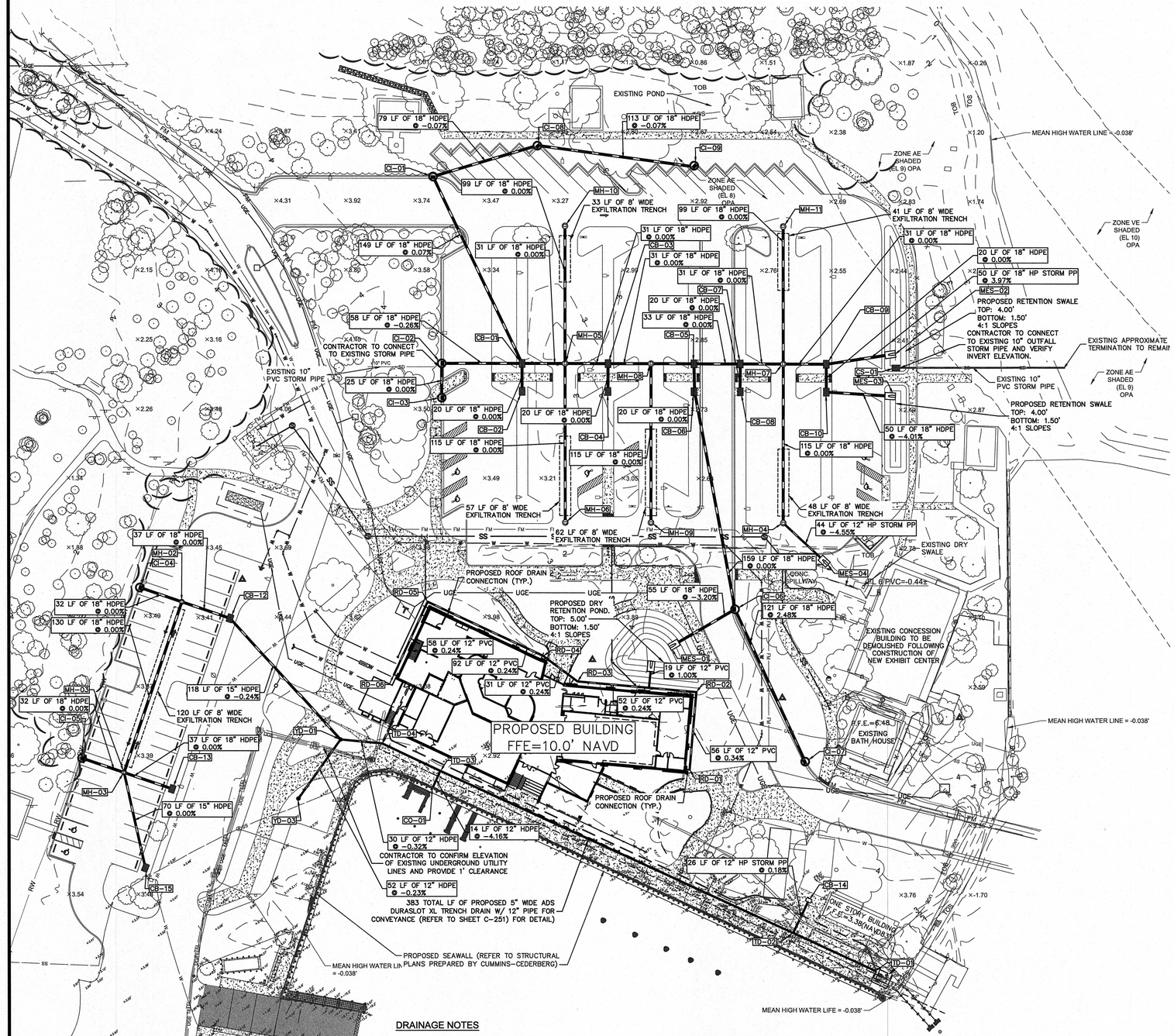
CARL PASINO — LICENSE No. 79251 — STATE OF FLORIDA — PROFESSIONAL ENGINEER — DATE: 12/30/2025

Sheet Title: PAVING AND GRADING PLAN
Project Title: JOHN PENNEKAMP STATE PARK
KEY LARGO FLORIDA

Sheet Number: C-200

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-200 PAVING GRADING AND DRAINAGE December 30, 2025 11:34:01am K:\VRB_JDE\John pennekamp state park\CAD\plotsheets\C-200 PAVING, GRADING, AND DRAINAGE.dwg



LEGEND

- PROPERTY LINE
- PROPOSED STORM MANHOLE (SOLID CASTING)
- PROPOSED STORM MANHOLE (ROUND INLET CASTING)
- PROPOSED STORM MANHOLE/ CATCH BASIN (CURB INLET CASTING)
- PROPOSED STORM SEWER CLENOUT
- PROPOSED FLARED END SECTION
- PROPOSED RIPRAP
- PROPOSED STORM SEWER

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
CB-01	CATCH BASIN W/ PRB (E) RIM: 3.50 INV IN: -0.50 (NW) 18" HDPE INV IN: -0.50 (E) 18" HDPE INV OUT: -0.50 (S) 18" HDPE INV OUT: -0.50 (W) 18" HDPE
CB-02	CATCH BASIN RIM: 3.38 INV IN: -0.50 (N) 18" HDPE
CB-03	CATCH BASIN W/ PRB (W) RIM: 3.50 INV IN: -0.50 (E) 18" HDPE INV OUT: -0.50 (W) 18" HDPE INV OUT: -0.50 (S) 18" HDPE
CB-04	CATCH BASIN RIM: 3.50 INV IN: -0.50 (N) 18" HDPE
CB-05	CATCH BASIN W/ PRB (W) RIM: 3.50 INV IN: -0.50 (W) 18" HP STORM PP INV IN: -0.50 (E) 18" HDPE INV OUT: -0.50 (S) 18" HDPE
CB-06	CATCH BASIN RIM: 3.65 INV IN: -0.50 (N) 18" HDPE INV IN: 0.50 (S) 18" HDPE
CB-07	CATCH BASIN (W) PRB (E) RIM: 3.50 INV IN: -0.50 (E) 18" HDPE INV OUT: -0.50 (W) 18" HDPE INV OUT: -0.50 (S) 18" HDPE
CB-08	CATCH BASIN RIM: 3.65 INV IN: -0.50 (N) 18" HDPE
CB-09	CATCH BASIN (W/ PRB (W) RIM: 3.50 INV IN: -0.50 (E) 18" HP STORM PP INV OUT: -0.50 (W) 18" HDPE INV OUT: -0.50 (S) 18" HDPE
CB-10	CATCH BASIN RIM: 3.50 INV IN: -0.50 (N) 18" HDPE INV OUT: -0.50 (E) 18" HDPE
CB-12	CATCH BASIN W/ PRB (NW) RIM: 3.18 INV OUT: 0.50 (W) 18" HDPE INV OUT: 0.50 (SE) 15" HDPE
CB-13	CATCH BASIN W/ PRB (NW) RIM: 3.18 INV OUT: 0.50 (W) 18" HDPE
CB-14	FDOT TYPE C CATCH BASIN RIM: 3.20 INV OUT: 1.25 (SW) 12" HP STORM PP
CI-01	CURB INLET RIM: 3.00 INV OUT: -0.39 (SE) 18" HDPE INV OUT: -0.39 (E) 18" HDPE
CI-02	CURB INLET RIM: 3.15 INV IN: -0.35 (E) 18" HDPE INV OUT: -0.25 (S) 18" HDPE
CI-03	CURB INLET RIM: 3.15 INV IN: -0.25 (N) 18" HDPE
CI-04	CURB INLET RIM: 3.39 INV IN: 0.50 (E) 18" HDPE
CI-05	CURB INLET RIM: 3.39 INV IN: 0.50 (E) 18" HDPE
CI-06	CURB INLET RIM: 4.90 INV IN: -3.25 (SE) 18" HDPE INV OUT: 0.50 (N) 18" HDPE INV OUT: -0.25 (SW) 18" HDPE
CI-07	CATCH BASIN RIM: 4.00 INV OUT: -0.25 (NW) 18" HDPE
CI-08	CURB INLET RIM: 3.00 INV IN: -0.33 (W) 18" HDPE INV OUT: -0.33 (E) 18" HDPE
CI-09	CURB INLET RIM: 3.01 INV IN: -0.25 (W) 18" HDPE
CO-01	CLEAN OUT CONNECTION RIM: 4.00 INV IN: 1.50 (NE) 12" HDPE
CS-01	CONTROL STRUCTURE 3' W X 2' D HORIZONTAL RECTAGULAR OVERFLOW RIM: 3.1' RIM: 2.36 INV OUT: -0.50 (E) 10" PVC
MES-01	MITERED END SECTION FDOT INDEX 430 RIM: 2.01 INV IN: 1.50 (NE) 18" HDPE
MES-02	MITERED END SECTION RIM: ??? INV OUT: 1.50 (W) 18" HP STORM PP
MES-03	MITERED END SECTION RIM: 1.00 INV IN: 1.50 (W) 18" HDPE

STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
MES-04	MITERED END SECTION RIM: ??? INV IN: 1.50 (NW) 12" HP STORM PP
MES-05	12" MITERED END SECTION RIM: ??? INV IN: 1.50 (S) 12" PVC
MH-02	MANHOLE RIM: 3.71 INV IN: 0.50 (E) 18" HDPE INV OUT: 0.50 (W) 18" HDPE INV OUT: 0.50 (S) 18" HDPE
MH-03	MANHOLE- FOOT TYPE J - 60" CIRCULAR BOTTOM STRUCTURE. RIM: 3.71 INV IN: 0.50 (E) 18" HDPE INV IN: 0.50 (N) 18" HDPE INV OUT: 0.50 (W) 18" HDPE INV OUT: 0.50 (S) 15" HDPE
MH-04	MANHOLE RIM: 4.60 INV IN: -0.50 (N) 18" HDPE INV OUT: -0.50 (SE) 12" HP STORM PP
MH-05	MANHOLE RIM: 4.07 INV IN: -0.50 (E) 18" HDPE INV OUT: -0.50 (W) 18" HDPE INV OUT: -0.50 (S) 18" HDPE INV OUT: -0.50 (N) 18" HDPE
MH-06	MAHHOLE RIM: 5.25 INV IN: -0.50 (N) 18" HDPE
MH-07	MANHOLE RIM: 4.13 INV IN: -0.50 (E) 18" HDPE INV OUT: -0.50 (W) 18" HDPE INV OUT: -0.50 (S) 18" HDPE INV OUT: -0.50 (N) 18" HDPE
MH-08	MANHOLE RIM: 4.04 INV OUT: -0.50 (W) 18" HDPE INV OUT: -0.50 (E) 18" HP STORM PP INV OUT: -0.50 (S) 18" HDPE
MH-09	MANHOLE RIM: 4.93 INV IN: -0.50 (N) 18" HDPE
MH-10	MANHOLE RIM: 4.22 INV IN: -0.50 (S) 18" HDPE
MH-11	MANHOLE RIM: 4.38 INV IN: -0.50 (S) 18" HDPE
RD-01	ROOF DRAIN CLEANOUT/CONNECTION RIM: 5.46 INV OUT: 2.00 (N) 12" PVC
RD-02	ROOF DRAIN CLEANOUT/CONNECTION RIM: 5.30 INV IN: 1.81 (S) 12" PVC INV OUT: 1.81 (W) 12" PVC
RD-03	ROOF DRAIN CLEANOUT/CONNECTION RIM: 7.98 INV IN: 1.82 (NW) 12" PVC INV OUT: 1.82 (E) 12" PVC
RD-04	ROOF DRAIN CLEANOUT/CONNECTION RIM: 9.68 INV IN: 1.89 (NW) 12" PVC INV OUT: 1.89 (SE) 12" PVC
RD-05	ROOF DRAIN CLEANOUT/CONNECTION RIM: 4.99 INV IN: 2.11 (SW) 12" PVC INV OUT: 2.11 (SE) 12" PVC
RD-06	ROOF DRAIN CLEANOUT/CONNECTION RIM: 5.00 INV OUT: 2.25 (NE) 12" PVC
TD-01	TRENCH DRAIN START ELEVATION: 1.75 RIM: 3.84 INV OUT: 1.27 (NW) 12" HDPE
TD-02	TRENCH DRAIN 12X12" TEE RIM: 3.75 INV IN: 1.20 (NE) 12" HP STORM PP INV IN: 1.20 (SE) 12" HDPE INV OUT: 1.20 (NW) 12" HDPE
TD-03	TRENCH DRAIN 12X12" TEE RIM: 3.88 INV IN: 0.92 (SE) 12" HDPE INV OUT: 0.92 (SW) 12" HDPE INV OUT: 0.92 (NW) 12" HDPE
TD-04	TRENCH DRAIN 12X12" TEE RIM: 3.98 INV IN: 0.88 (W) 12" HDPE INV IN: 0.88 (SE) 12" HDPE
TEE - 01	12X12" ADS TEE RIM: ??? INV IN: 1.69 (E) 12" PVC INV IN: 1.69 (W) 12" PVC INV OUT: 1.69 (N) 12" PVC
YD-01	YARD DRAIN RIM: 3.18 INV IN: 0.78 (NW) 15" HDPE INV OUT: 0.78 (E) 12" HDPE INV OUT: 0.78 (SW) 12" HDPE
YD-03	12" YARD DRAIN RIM: 3.54 INV IN: 0.90 (NE) 12" HDPE

DRAINAGE NOTES

1. CONTRACTOR TO CONSTRUCT DRAINAGE STRUCTURES WITH USF GRATES, RIMS AND COVERS AS CALLED OUT OR APPROVED EQUAL. SHOP DRAWINGS ARE TO BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
2. CONTRACTOR TO REFER TO FDOT DESIGN STANDARD (AND NOT LIMITED TO) INDEXS 200, 201, 210, 211, 214, 232 & 233 FOR MANHOLE, INLET AND GRATE SPECIFICATIONS.
3. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES.
4. CONTRACTOR TO VERIFY ALL EXISTING UTILITY RINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT RINGS AND COVERS WITH HEAVY DUTY TRAFFIC RATED RINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION.
5. ALL CLEAN-OUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
6. SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% LONGITUDINALLY. GRADES IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. IN CASES OF SIDEWALK LANDINGS AT BUILDING ENTRANCES, GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. ACCESSIBLE CURB RAMPS SHALL NOT EXCEED 8' IN LENGTH AND 1:12 SLOPE. LANDINGS AT CHANGES IN DIRECTION SHALL BE MINIMUM 60"X60" AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
7. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   - A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER.
   - B. FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 280,CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   - C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
8. ALL DRAINAGE PIPE JOINTS SHALL BE FILTER FABRIC WRAPPED PER FDOT INDEX #280. ALL DRAINAGE PIPE JOINTS NEED TO BE FILTER FABRIC WRAPPED REGARDLESS OF MATERIAL.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
10. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
11. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
12. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
13. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
14. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
15. ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES.
16. CONTRACTOR TO FLUSH AND VACUUM ENTIRE ON-SITE STORM WATER SYSTEM UPON COMPLETION OF PROPOSED WORK.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
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SYMBOL	REVISION	DATE

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: ACF
Consultant: K2M DESIGN

Architecture, Engineering, Interior Design, Facility Asset Management

Sheet Title: DRAINAGE PLAN
Project Title: JOHN PENEKAMP STATE PARK
KEY LARGO FLORIDA

Sheet Number: C-201

PLOTTED:

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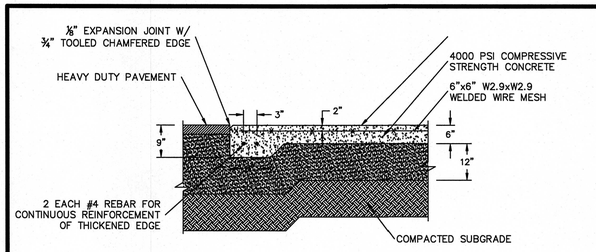
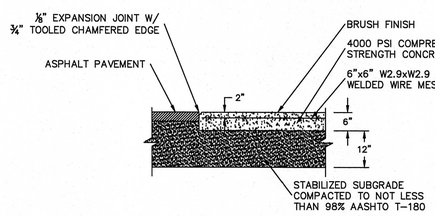


HEAVY DUTY CONCRETE THICKENED EDGE DETAIL

N.T.S



HEAVY DUTY CONCRETE EDGE DETAIL

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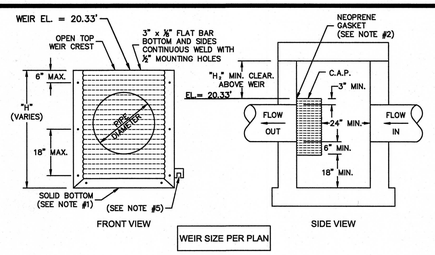
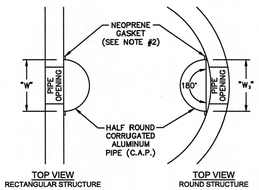




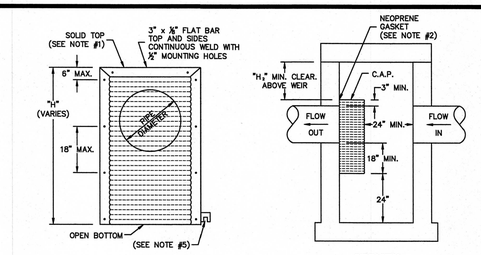
PIPE DIAM.	W (IN)	W_1 (IN)	T (GAUGE)	H_1 (IN)
15"	21"	21"	16	6
18"	24"	24"	16	7
21"	30"	30"	16	8
24"	30"	36"	16	10
30"	36"	42"	14	13
36"	42"	48"	14	16
42"	48"	54"	14	20
48"	54"	60"	14	23
54"	60"	66"	14	26

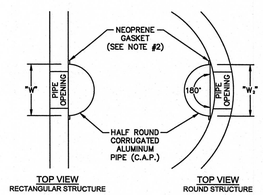
"W" RECTANGULAR STRUCTURE
"W1" ROUND STRUCTURE

NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR THE BAFFLE OR BOTTOM FOR WEIR.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
3. POLLUTION RETARDANT BAFFLE OR HALF PIPE WEIR TO BE FASTENED IN PLACE WITH ⅜" x 4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
4. FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
5. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

WEIR DETAILS

N.T.S





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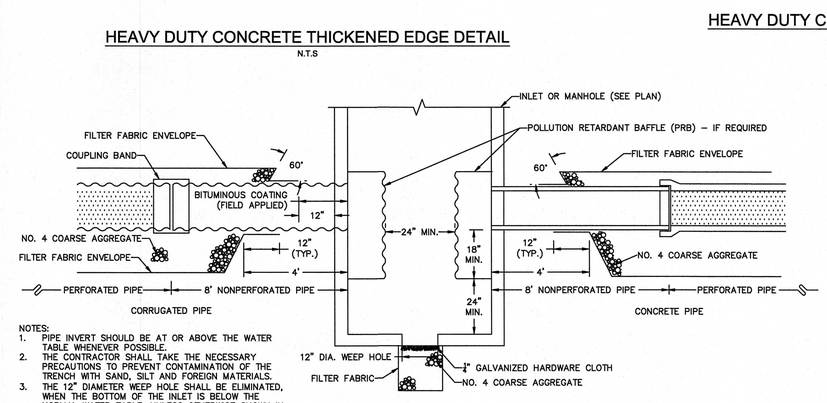
54"	60"	66"	14	26

"W" RECTANGULAR STRUCTURE
"W1" ROUND STRUCTURE

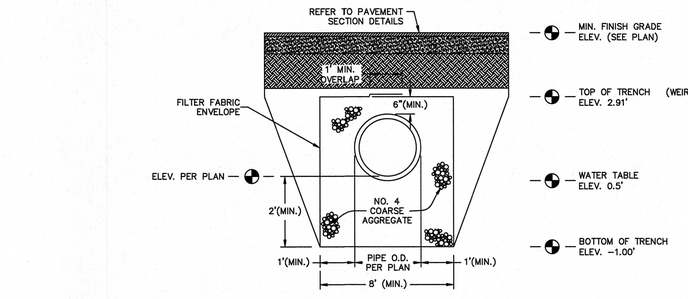
NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR THE BAFFLE OR BOTTOM FOR WEIR.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
3. POLLUTION RETARDANT BAFFLE OR HALF PIPE WEIR TO BE FASTENED IN PLACE WITH ⅜" x 4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
4. FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
5. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

POLLUTION RETARDANT BAFFLE (PRB) DETAILS

N.T.S



NOTES:
1. PIPE INVERT SHOULD BE AT OR ABOVE THE WATER TABLE WHENEVER POSSIBLE.
2. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
3. THE 12" DIAMETER WEEP HOLE SHALL BE ELIMINATED, WHEN THE BOTTOM OF THE INLET IS BELOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN IN THE PLANS.



EXFILTRATION TRENCH

N.T.S

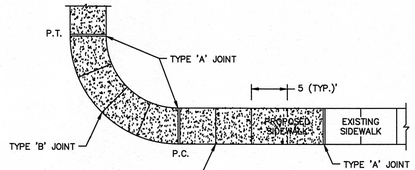


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	100' MAX. SPACING, P.C./P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.

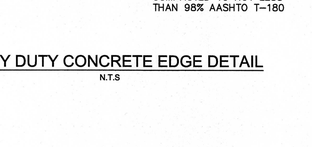


TABLE OF SIDEWALK THICKNESS	
LOCATION	"T"
PEDESTRIAN ONLY AREAS	4"
DRIVEWAYS AND OTHER TRAFFIC AREAS	6"

NOTE:
ALL SIDEWALK STREET CROSSINGS MUST MEET THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (ADA) COMPLIANCE GUIDE. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.

CONCRETE SIDEWALK

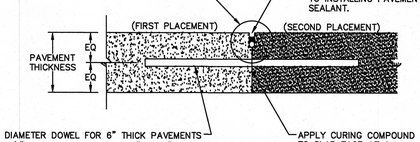
N.T.S

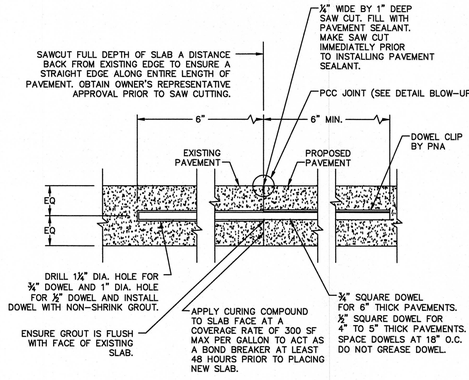
STANDARD DUTY ASPHALT

N.T.S

STANDARD DUTY CONCRETE

N.T.S





HEAVY DUTY CONCRETE JOINT DETAILS

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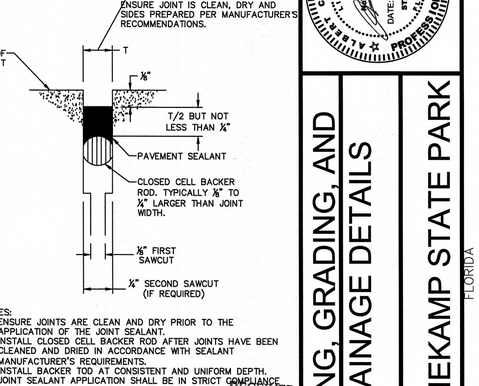
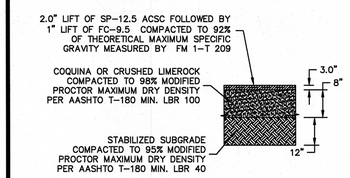


NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
3. INSTALL BACKER TOD AT CONSISTENT AND UNIFORM DEPTH.
4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

PCC JOINT DETAIL BLOW-UP (TYP.)



HEAVY DUTY ASPHALT

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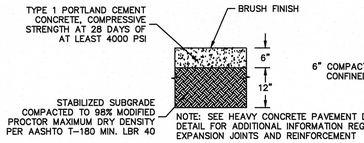
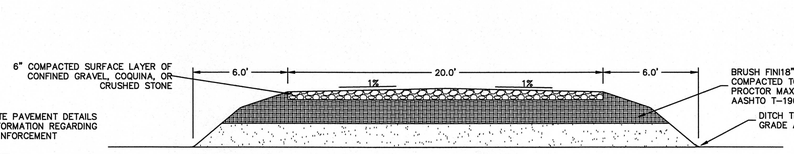


HEAVY DUTY CONCRETE

N.T.S



TEMPORARY ACCESS ROAD DETAIL

N.T.S

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SYMBOL	REVISION	DATE

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

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DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: AJ
Consultant:

K2M DESIGN

PAVING, GRADING, AND DRAINAGE DETAILS

JOHN PENNEKAMP STATE PARK

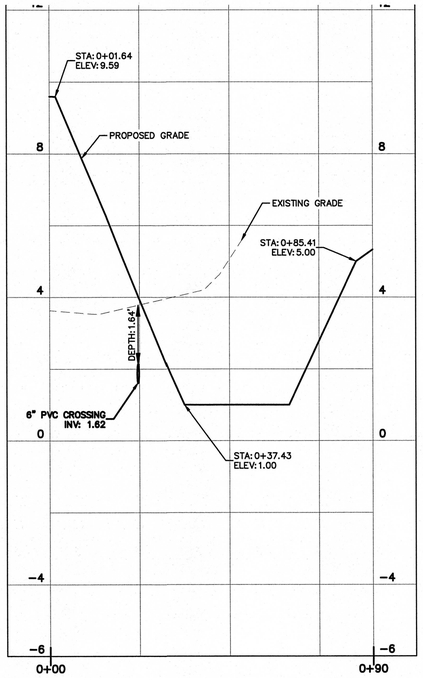
KEY LARGO FLORIDA

Sheet Title:
Project Title:

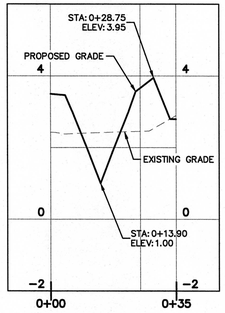
Sheet Number: C-250

PLOTTED:

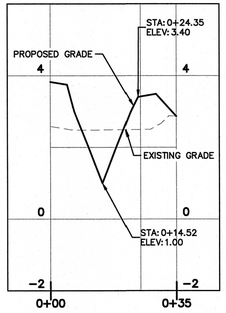
Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-250 PAVING GRADING AND DRAINAGE DETAILS December 30, 2025 11:34:28am K:\VRB_LDEV\john pennekamp state park\CAD\plansheets\C-250 PAVING, GRADING, AND DRAINAGE DETAILS.dwg

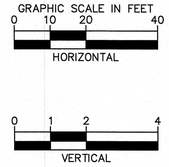


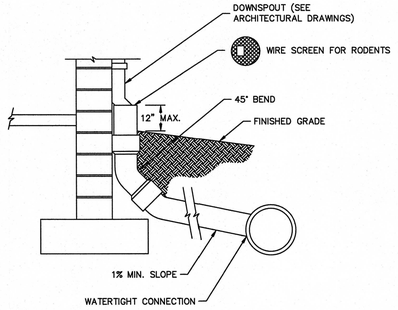
B–B



C–C







NOTES:
1. PIPE MUST BE SCHEDULE 40 PVC.
2. THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.

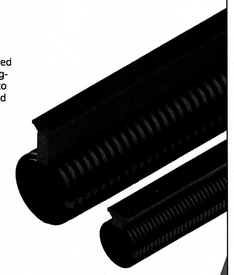
DOWNSPOUT COLLECTOR DETAIL
N.T.S

Duraslot® XL Trench Drains

Duraslot XL trench drains provide superior inlet capacity and conveyance volume and are engineered to stand up to heavy traffic loads. Manufactured with durable and corrosion-resistant materials, Duraslot XL provides a long-lasting, cost-effective solution to stormwater capture. Duraslot XL adapts to other ADS products seamlessly making for easy design and installation and requiring fewer fittings or basins.

The product is made from dual-wall corrugated polyethylene pipe with an aluminum slot mounted on top. It is a cost-effective substitute for precast trench drains or cast-in-place trench drains with steel or cast iron grates.

The product is available in standard slot or variable slot height made specific to your project's needs.



Applications
- Streets/Highways
- Commercial
- Warehouse
- Parks
- Loading Docks
- Parking lots
- Athletic fields
- Schools/Plazas

Features
- 5" (125 mm) ductile iron grates
- Up to 36" (900 mm) diameter N-12® pipe
- Tested to AASHTO HS-25
- Custom height slots
- Nyloplast® cleanouts available

Benefits
- Greater hydraulic efficiency compared to corrugated steel pipe
- High conveyance capacity makes for longer continuous runs for less cost
- N-12 pipe offers 100-year design service life with high durability and corrosion resistance

Duraslot XL Grates



Standard grate
- Increased inlet capacity
- Higher load rating

Pedestrian grate
- ADA compliant & heel proof
- Decorative pattern

///ADS

Duraslot XL Trench Drain Specification

Scope
This specification describes 6"-36" (150-900 mm) ADS Duraslot XL pipe for use in surface drain and conveyance applications.

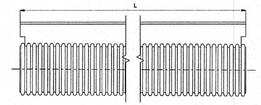
Pipe Requirements
Duraslot XL pipe, as manufactured and distributed by ADS, shall have a smooth interior and annular exterior corrugations with an aluminum slot grate frame mounted longitudinally along the length of the pipe to accept the grate, while maintaining the original pipe diameter.

- 6"-10" (150-250 mm) pipe shall meet AASHTO M252, Type S
- 12"-36" (300-900 mm) pipe shall meet AASHTO M294, Type S or ASTM F2306
- Manning's "n" value for use in design shall be 0.012

The aluminum slot grate frame shall be manufactured from 0.063" (1.6 mm) tempered commercial aluminum meeting the requirements of ASTM B209, consisting of two parallel plates separated by spacers spanning the slot width. The aluminum slot grate frame shall be coated with a primer to protect the aluminum when installed in concrete. Grates furnished by ADS shall be made of ductile iron with a 4.81" (122 mm) width and 19.69" (500 mm) length. The grate pattern, open area and load rating will vary based on the chosen design. The flange at the bottom of the aluminum slot grate frame shall be riveted to the pipe with a minimum of two rivets per linear foot.

Fittings
Duraslot XL fittings shall be modified from fittings which conform to AASHTO M252, AASHTO M294 or ASTM F2306.

Installation
Installation shall be in accordance with ADS recommended installation instructions. Contact your local ADS representative or visit adspipe.com for a copy of the latest installation guidelines.



	Nominal Diameter in (mm)								
	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
L (drain grate length)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)
H 2.5" (63 mm) slot	3.0 (76)	3.0 (76)	3.0 (76)	3.5 (89)	3.75 (95)	4.0 (102)	4.75 (121)	5.0 (127)	5.25 (133)
H 6" (150 mm) slot	6.5 (165)	6.5 (165)	6.5 (165)	7.0 (178)	7.0 (178)	7.0 (178)	7.25 (184)	8.25 (210)	8.25 (210)
O opening width in (mm)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)
R slot width in (mm)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)
S slot width in (mm)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)
W pipe width with corrugation in (mm)	0.46 (12)	0.61 (15)	0.73 (19)	1.15 (29)	1.30 (33)	1.57 (40)	1.86 (47)	2.55 (65)	2.85 (72)

NOTE:
1. Custom slot heights available up request. Production of custom slots will require approval by the Duraslot Project Engineer. Sign shopped drawings also required from interested party.
2. Other grate material options available upon request. Contact local ADS representative for availability of grate material option.

///ADS

adspipe.com
800-821-6710

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SYMBOL	REVISION	DATE

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: ACF
ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 14749200

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ARCHITECT — CURTIS L. ROGERS — LICENSE — FL AR 0017181 — STATE OF FLORIDA — DATE: 12/05/2025 — PROFESSIONAL ARCHITECT — SEAL

Sheet Title: PAVING, GRADING, AND DRAINAGE DETAILS
Project Title: JOHN PENNEKAMP STATE PARK
KEY LARGO FLORIDA
Sheet Number: C-251

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-251 December 30, 2025 11:34:47am K:\VRB_LDE\John pennekamp state park\CAD\plansheets\C-251 PAVING, GRADING, AND DRAINAGE DETAILS.dwg



UTILITY LEGEND

OHE	EXISTING OVERHEAD ELECTRIC
UGE	EXISTING UNDERGROUND ELECTRIC
UGE	PROPOSED UNDERGROUND ELECTRICAL
W	EXISTING WATER LINE
W	PROPOSED WATER LINE
SS	EXISTING SANITARY SEWER
SS	PROPOSED SANITARY SEWER
FM	EXISTING FORCE MAIN
FM	PROPOSED FORCE MAIN
RW	EXISTING FORCE MAIN
RW	PROPOSED FORCE MAIN
SW	PROPOSED SALTWATER INTAKE LINE
	PROPOSED ELECTRICAL EASEMENT

WATER AND SEWER NOTES

1. ALL EXISTING WATER, FORCE, GRAVITY, AND RECLAIMED WATER MAINS, AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL ADJUST VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, ETC., IN CONFLICT WITH CONSTRUCTION.
3. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO UTILITIES' MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY UTILITIES, UTILITIES MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
4. ALL EXISTING AND NEW UTILITIES VALVES AND VALVE BOXES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES ARE TO BE RELOCATED, AS REQUIRED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING THE CONTACT AND PHONE NUMBER FOR THE APPROPRIATE UTILITIES DISPATCH OPERATOR TO BE NOTIFIED FOR EMERGENCIES.
6. FOR ALL STANDARD DETAILS, SPECIFICATIONS, & LATEST REVISIONS, SEE MONROE COUNTY WATER UTILITIES DEPARTMENT.
7. ONLY UTILITIES SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. COORDINATE VALVE OPERATION WITH APPROPRIATE UTILITIES INSPECTOR.
8. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT ANY PROPOSED WATER MAIN TO ANY EXISTING WATER MAIN UNLESS CLEARED BY FDEP AND UTILITIES.
9. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE VARIOUS JURISDICTIONAL WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROPRIATE JURISDICTIONAL UTILITY MANUAL.
10. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
11. ALL GATE VALVES INCLUDE CAST IRON VALVE BOX.
12. ALL SERVICES SHALL BE INSTALLED PER MONROE COUNTY DETAILS AND SPECS.
13. CONTRACTOR SHALL INSTALL ALL PROPOSED BACKFLOW PREVENTERS 12-IN ABOVE FINISH GRADE.
14. ALL DISTURBED AREAS SHALL BE SODDED UNLESS OTHERWISE NOTED ON THE PLANS. SOD INSTALLED ON SLOPES 3:1 OR GREATER SHALL BE HELD IN PLACE WITH 12-IN STAPLES.
15. REFER TO MEP PLANS FOR POWER TO SITE LIGHT POLES.
16. ALL WATER AND SEWER SYSTEMS ARE PRIVATE.

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
CO-01	SANITARY CLEANOUT RIM: 3.56 INV IN: 0.00
CO-02	CLEAN OUT CONNECTION RIM: 3.67 INV IN: -0.74 INV OUT: -0.73
CO-03	CLEAN OUT CONNECTION RIM: 4.03 INV IN: -1.22 INV OUT: -1.22
CO-04	CLEN OUT CONNECTION RIM: 4.97 INV IN: -1.99 INV OUT: -1.99
CO-05	CLEAN OUT CONNECTION RIM: 4.99 INV IN: -1.49
CO-06	CONNECTION TO EXISTING BUILDING RIM: 5.35 INV IN: 2.81
CO-06 (2)	CONNECTION TO EXISTING BUILDING RIM: 3.88 INV IN: 1.85 INV OUT: 1.85
LS-01	LIFT STATION RIM: 6.00 INV IN: -3.10
MH-01	SANITARY MANHOLE RIM: 4.32 INV IN: -1.43 INV OUT: -1.42
MH-02	SANITARY MANHOLE RIM: 4.34 INV IN: -2.56 INV OUT: -2.56
MH-03	SANITARY MANHOLE RIM: 4.75 INV IN: -2.95 INV OUT: -2.95
WYE-01	6" X 6" WYE CONNECTION RIM: 3.51 INV OUT: -0.04 INV OUT: -0.04
WYE-02	6" X 8" WYE CONNECTION RIM: 5.22 INV IN: -1.86 INV OUT: -1.86 INV OUT: -1.86
WYE-03	6" X 8" WYE CONNECTION RIM: 5.08 INV IN: -2.40 INV OUT: -2.40 INV OUT: -2.44

UTILITY NOTES

1. THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
2. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES AND OTHER ABOVE AND BELOW-GRADE IMPROVEMENTS ARE APPROXIMATE AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF SUCH PRIOR TO THE START OF CONSTRUCTION.
3. A MINIMUM OF 5' SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREES.
4. GAS, PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW.
5. 4" AND 6" SANITARY LATERALS MUST MAINTAIN A 1.04% MINIMUM SLOPE TO ENSURE PROPER FLOW.
6. CONTRACTOR SHALL ADJUST EXISTING VALVES AND OTHER APPURTENANCES TO FINAL GRADE. ALL SURFACE UTILITIES TO REMAIN SHALL HAVE TRAFFIC-RATED LIDS IN PAVEMENT AREAS.
7. ALL WATER SERVICE CONNECTION SHALL HAVE PROPER BACKFLOWS AND SHALL BE CERTIFIED PRIOR TO BUILDING CERTIFICATE OF OCCUPANCY.
8. PIPE SPECIFICATIONS [C151(CLASS)/C900 (SDR-35)]
9. PIPE COLOR CODING REQUIREMENT SHALL BE IN CONFORMANCE WITH 62-555.320(21)(b)(3), F.A.C.
10. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM PIPE COVER OF 36 INCHES FOR PVC AND 30 INCHES FOR DIP.
11. ALL WATERMAIN, GRAWTY SEWER MAIN, AND STORM PIPE CROSSINGS SHALL HAVE AT LEAST 18" (MINIMUM) OF VERTICAL SEPARATION WITH OTHER PIPES, CABLES, AND GAS LINES.
12. PERFORM DISINFECTION OF INSTALLED WATER PIPE PER AWWA C651 - 05 OR LATEST REVISION
13. TEST PRESSURE (REF. TO AWWA C600-10) OR LATEST REVISION FOR DIP PIPE AND (REF. TO AWWA C605-13) OR LATEST REVISION FOR PVC PIPE FOLLOWING LEAKAGE FORMULA:
14. WATER PIPES SHALL BE PRESSURE TESTED ACCORDING TO AWWA C600-10 OR LATEST REVISION. THE FORMULA IS AS FOLLOWS: Q = LD X SQUARE ROOT OF P / 148,000. WHERE Q = QUALITY OF MAKEUP WATER (IN GALLONS PER HOUR), L = LENGTH OF PIPE SECTION BEING TESTED (IN FEET), D = NOMINAL DIAMETER OF THE PIPE (IN INCHES), AND P = AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST (IN POUNDS PER SQUARE INCH GUAGE).

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Bureau of Design and Construction
3800 Commonwealth Blvd. Tallahassee, FL 32399 (805)245-2157

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CARL FABIANO ENGINEER
No. 87931
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: 12/30/2025

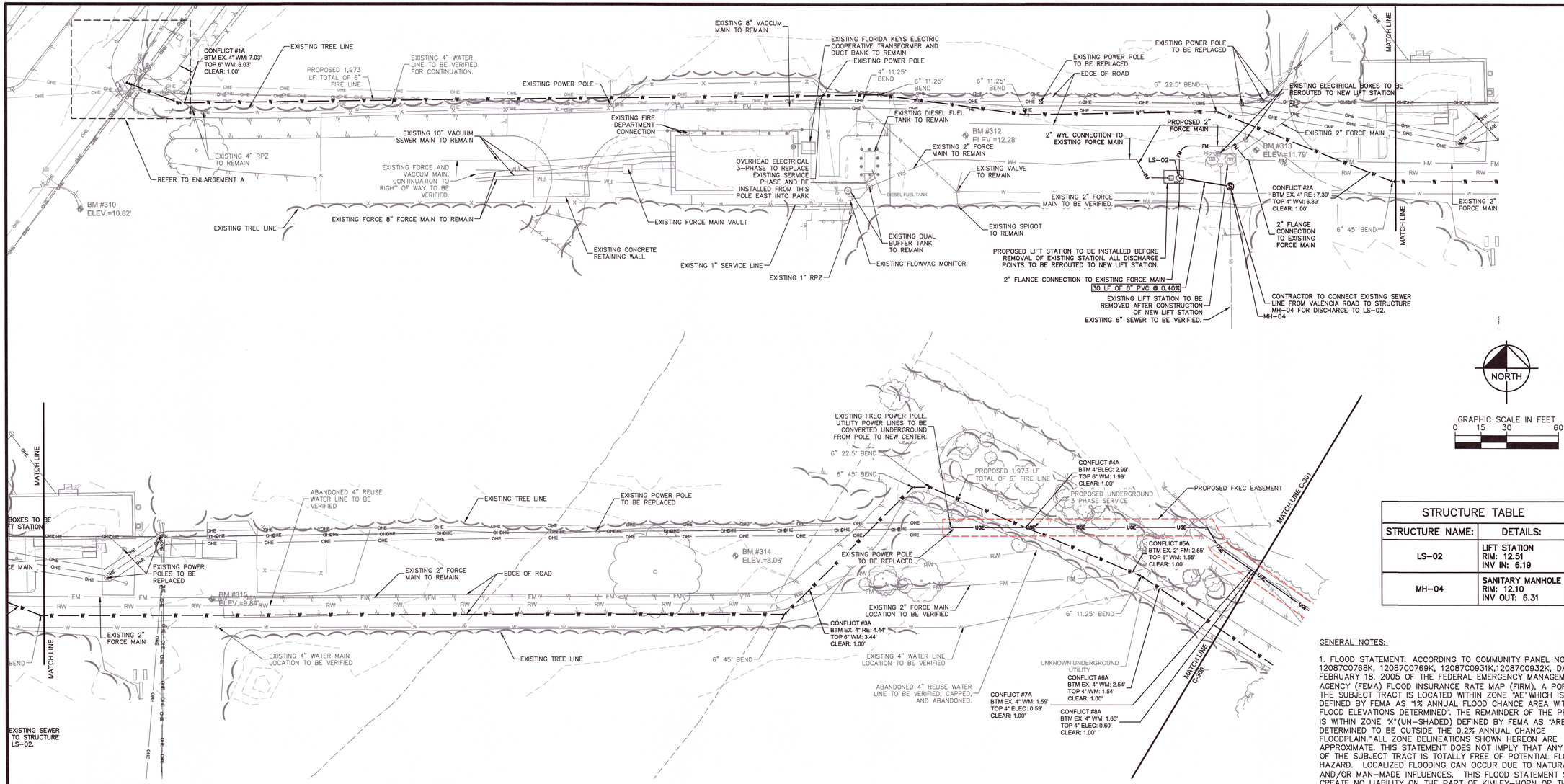
Sheet Title: UTILITY PLAN

Project Title: JOHN PENNEKAMP STATE PARK KEY LARGO FLORIDA

Sheet Number: C-300

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-300 UTILITY PLAN December 30, 2025 11:35:09am K:\VRB_LDE\John pennekamp state park\CAD\plansheets\C-300 UTILITY PLAN.dwg



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
LS-02	LIFT STATION RIM: 12.51 INV IN: 6.19
MH-04	SANITARY MANHOLE RIM: 12.10 INV OUT: 6.31

GENERAL NOTES:

1. FLOOD STATEMENT: ACCORDING TO COMMUNITY PANEL NO. 12087C0768K, 12087C0769K, 12087C0931K,12087C0932K, DATED FEBRUARY 18, 2005 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN." ALL ZONE DELINEATIONS SHOWN HEREON ARE APPROXIMATE. THIS STATEMENT DOES NOT IMPLY THAT ANY PORTION OF THE SUBJECT TRACT IS TOTALLY FREE OF POTENTIAL FLOOD HAZARD. LOCALIZED FLOODING CAN OCCUR DUE TO NATURAL AND/OR MAN-MADE INFLUENCES. THIS FLOOD STATEMENT SHALL CREATE NO LIABILITY ON THE PART OF KIMLEY-HORN OR THE UNDERSIGNED.

2. GEODETIC BASIS STATEMENT: HORIZONTAL CONTROL: THE BEARINGS, DISTANCES, AREAS AND COORDINATES SHOWN HEREON ARE THE TEXAS STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (FIPS 901) (NAD'83), AS DETERMINED BY THE GLOBAL POSITIONING SYSTEM (GPS). ALL DISTANCES SHOWN HEREON ARE ON THE GRID. THE UNIT OF LINEAR MEASUREMENT IS U.S. SURVEY FEET. VERTICAL CONTROL: THIS DRAWING SHOWS EXISTING SPOT ELEVATIONS AND CONTOUR LINES BASED UPON A FIELD SURVEY CONDUCTED BY SURVEY PERSONNEL. THE CONTOUR INTERVAL IS 1 FOOT. ALL ELEVATIONS SHOWN HEREON ARE TIED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) BASED ON GPS OBSERVATIONS.

3. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SUNSHINE 811 MARKINGS LOCATED BY SURVEY CREWS, OR RECORD DRAWINGS OBTAINED FROM UTILITY COMPANIES REPRESENTATIVES. KIMLEY-HORN CANNOT GUARANTEE THE LOCATIONS OF SAID UTILITIES, EXCEPT THOSE THAT ARE OBSERVED AND READILY VISIBLE ON THE SURFACE AT THE TIME OF THIS SURVEY. KIMLEY-HORN ASSUMES NO LIABILITY FOR POORLY OR IMPROPERLY MARKED UTILITY LOCATIONS. PRIVATE INTERIOR SERVICE LINES ARE NOT SHOWN.

4. THE TREE SPECIES REFERENCED ON THIS EXHIBIT REFLECT FIELD IDENTIFICATIONS MADE BY SURVEY CREW PERSONNEL. AN ARBORIST OR OTHER EXPERT CONSULTANT SHOULD MAKE THE FINAL DETERMINATION OF TREE TYPES AND CONDITIONS. THIS SURVEY DOES NOT SHOW ALL EXISTING TREES OR LANDSCAPING.

WATER AND SEWER NOTES

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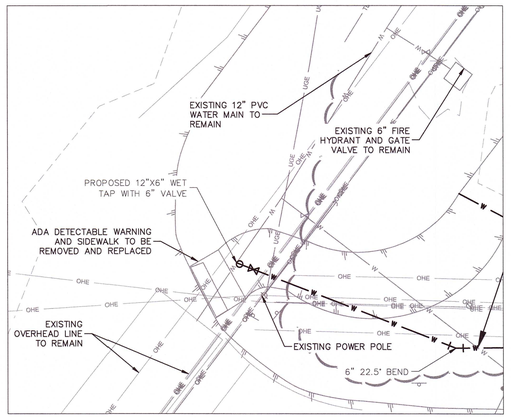
6. FOR ALL STANDARD DETAILS, SPECIFICATIONS, & LATEST REVISIONS, SEE MONROE COUNTY WATER UTILITIES DEPARTMENT.
7. ONLY UTILITIES SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. COORDINATE VALVE OPERATION WITH APPROPRIATE UTILITIES INSPECTOR.
8. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT ANY PROPOSED WATER MAIN TO ANY EXISTING WATER MAIN UNLESS CLEARED BY FDEP AND UTILITIES.
9. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE VARIOUS JURISDICTIONAL WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROPRIATE JURISDICTIONAL UTILITY MANUAL.
10. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
11. ALL GATE VALVES INCLUDE CAST IRON VALVE BOX.
12. ALL SERVICES SHALL BE INSTALLED PER MONROE COUNTY DETAILS AND SPECS.
13. CONTRACTOR SHALL INSTALL ALL PROPOSED BACKFLOW PREVENTERS 12-IN ABOVE FINISH GRADE.
14. ALL DISTURBED AREAS SHALL BE SODDED UNLESS OTHERWISE NOTED ON THE PLANS. SOD INSTALLED ON SLOPES 3:1 OR GREATER SHALL BE HELD IN PLACE WITH 12-IN STAPLES.
15. REFER TO MEP PLANS FOR POWER TO SITE LIGHT POLES.
16. ALL WATER AND SEWER SYSTEMS ARE PRIVATE.

UTILITY NOTES

1. THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
2. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES AND OTHER ABOVE AND BELOW-GRADE IMPROVEMENTS ARE APPROXIMATE AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF SUCH PRIOR TO THE START OF CONSTRUCTION.
3. A MINIMUM OF 5' SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREES.
4. GAS, PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW.
5. 4" AND 6" SANITARY LATERALS MUST MAINTAIN A 1.04% MINIMUM SLOPE TO ENSURE PROPER FLOW.
6. CONTRACTOR SHALL ADJUST EXISTING VALVES AND OTHER APPURTENANCES TO FINAL GRADE. ALL SURFACE UTILITIES TO REMAIN SHALL HAVE TRAFFIC-RATED LIDS IN PAVEMENT AREAS.
7. ALL WATER SERVICE CONNECTION SHALL HAVE PROPER BACKFLOWS AND SHALL BE CERTIFIED PRIOR TO BUILDING CERTIFICATE OF OCCUPANCY.
8. PIPE SPECIFICATIONS [C151(CLASS)/C900 (SDR-35)]
9. PIPE COLOR CODING REQUIREMENT SHALL BE IN CONFORMANCE WITH 62-555.320(21)(b)(3), F.A.C.
10. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM PIPE COVER OF 36 INCHES FOR PVC AND 30 INCHES FOR DIP.
11. ALL WATERMAIN, GRAVITY SEWER MAIN, AND STORM PIPE CROSSINGS SHALL HAVE AT LEAST 18" (MINIMUM) OF VERTICAL SEPARATION WITH OTHER PIPES, CABLES, AND GAS LINES.
12. PERFORM DISINFECTION OF INSTALLED WATER PIPE PER AWWA C651 - 05 OR LATEST REVISION
13. TEST PRESSURE (REF. TO AWWA C600-10) OR LATEST REVISION FOR DIP PIPE AND (REF. TO AWWA C605-13) OR LATEST REVISION FOR PVC PIPE FOLLOWING LEAKAGE FORMULA:
14. WATER PIPES SHALL BE PRESSURE TESTED ACCORDING TO AWWA C600-10 OR LATEST REVISION. THE FORMULA IS AS FOLLOWS: Q = LD X SQUARE ROOT OF P / 148,000. WHERE Q = QUALITY OF MAKEUP WATER (IN GALLONS PER HOUR), L = LENGTH OF PIPE SECTION BEING TESTED (IN FEET), D = NOMINAL DIAMETER OF THE PIPE (IN INCHES), AND P = AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST (IN POUNDS PER SQUARE INCH GUAGE).
15. ALL WORK UNDER FKAA PERMIT TO CONFORM WITH FKAA MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS LATEST EDITION
16. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING UTILITIES IN THE FIELD, ANY ADDITIONAL COSTS INCURRED ARE AT THE EXPENSE OF THE OWNER
17. DAMAGED PAVEMENT MARKINGS SHALL BE RESTORED TO FDOT STANDARDS

UTILITY LEGEND

OHE	PROPSED OVERHEAD ELECTRIC
OHE	EXISTING OVERHEAD ELECTRIC
UGE	EXISTING UNDERGROUND ELECTRIC
UGE	PROPOSED UNDERGROUND ELECTRICAL
W	EXISTING WATER LINE
W	PROPOSED WATER LINE
SS	EXISTING SANITARY SEWER
SS	PROPOSED SANITARY SEWER
FM	EXISTING FORCE MAIN
FM	PROPOSED FORCE MAIN
RW	EXISTING FORCE MAIN
RW	PROPOSED FORCE MAIN



ENLARGEMENT A

GRAPHIC SCALE IN FEET
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3-052-030
FEB 10 2026
MONROE COUNTY PLANNING DEPT

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

CARL FRANCIS PANO — STATE OF FLORIDA — PROFESSIONAL ENGINEER — 73281 — DATE: 12/30/2025

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: ACF
Consultant:

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Key West, Florida
Miami, Florida
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Interior Design,
Facility and Management

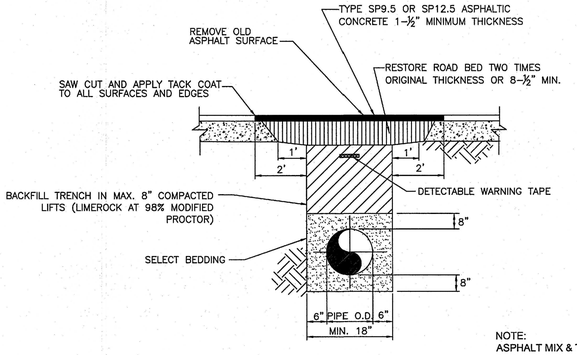
Sheet Title: OFF-SITE UTILITY PLAN

Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: C-301

PLOTTED:


CONFLICT #1
BTM EX. 4" WM: 0.36'
TOP 6" WM: -0.36'
CLEAR: 1.00'
CONFLICT #2
BTM EX. UKN: 1.31'
TOP 2" TM: 0.31'
CLEAR: 1.00'
CONFLICT #3
BTM EX. UKN: 2.35'
TOP 1" WM: -1.35'
CLEAR: 1.00'
CONFLICT #4
BTM EX. UKN: 2.42'
TOP 8" SS: 1.42'
CLEAR: 1.00'
CONFLICT #5
BTM EX. UKN: 1.66'
TOP 2" TM: 0.66'
CLEAR: 1.00'
CONFLICT #6
BTM EX. UKN: 0.84'
TOP 2" TM: -0.16'
CLEAR: 1.00'
CONFLICT #7
BTM 6" WM: 0.58'
BTM EX. 4" WM: 0.58'
TOP 6" WM: -0.42'
CLEAR: 1.00'
CONFLICT #8
BTM EX. 4" WM: 0.78'
TOP 2" TM: -0.22'
CLEAR: 1.00'
CONFLICT #9
BTM 1" WM: 0.99'
CLEAR: 1.00'
CONFLICT #10
BTM 4" ELEC: 0.87'
TOP 2" TM: -0.13'
CLEAR: 1.00'
CONFLICT #11
BTM 2" TM: 0.38'
TOP 2" TM: 0.04'
CLEAR: 1.00'
CONFLICT #12
BTM 6" WM: 0.57'
TOP 8" SS: -2.14'
CLEAR: 2.71'
CONFLICT #13
BTM 8" SS: -1.08'
TOP 8" SS: -1.92'
CLEAR: 3.00'
CONFLICT #14
BTM EX. 4" WM: 0.89'
TOP 4" ELEC: -0.01'
CLEAR: 1.00'
CONFLICT #15
BTM 2" TM: 1.07'
TOP 2" TM: 0.07'
CLEAR: 1.00'
CONFLICT #16
BTM 4" ELEC: 1.08'
TOP 2" TM: 0.08'
CLEAR: 2.96'
CONFLICT #17
BTM EX. 4" WM: 1.10'
TOP 4" ELEC: 0.10'
CLEAR: 1.00'
CONFLICT #18
BTM 8" SS: 3.16'
TOP 6" SS: 0.31'
CLEAR: 2.85'
CONFLICT #19
BTM 2" TM: -2.63'
TOP 2" TM: -2.63'
CLEAR: 1.00'
CONFLICT #20
BTM 12" STRM: -0.57'
TOP 2" TM: -0.57'
CLEAR: 1.00'
CONFLICT #21
BTM 18" WM: 0.44'
TOP 8" SS: -0.85'
CLEAR: 1.29'
CONFLICT #22
BTM 18" STRM: 0.44'
TOP 2" WM: -0.56'
CLEAR: 1.00'
CONFLICT #23
BTM 2" TM: 1.43'
TOP 2" TM: -0.82'
CLEAR: 2.25'
CONFLICT #24
BTM 18" STRM: -0.55'
CLEAR: 2.44'
CONFLICT #25
BTM 2" TM: 1.98'
CONFLICT #26
BTM 12" STRM: -0.25'
CLEAR: 2.21'
CONFLICT #27
BTM EX. 4" ELEC: 1.26'
TOP 4" ELEC: -0.86'
CLEAR: 0.33'
CONFLICT #28
BTM 4" ELEC: 1.36'
CLEAR: 0.38'
CONFLICT #29
BTM EX. 4" ELEC: 1.18'
TOP 2" TM: 0.18'
CLEAR: 1.00'
CONFLICT #30
BTM EX. 2" WM: 0.28'
TOP 2" WM: -0.28'
CLEAR: 1.00'
CONFLICT #31
BTM 12" STRM: 1.14'
CLEAR: 1.00'
CONFLICT #32
BTM 2" SW: 0.86'
TOP 2" WM: 0.34'
CLEAR: 0.62'
CONFLICT #33
BTM 12" STRM: 0.81'
TOP 4" ELEC: -0.19'
CLEAR: 1.00'
CONFLICT #34
BTM 6" SS: -1.88'
TOP 2" WM: -1.88'
CLEAR: 3.28'
CONFLICT #35
BTM 4" ELEC: 1.59'
TOP 4" ELEC: -1.47'
CLEAR: 3.06'
CONFLICT #36
BTM UKN: 1.91'
TOP 4" ELEC: 0.91'
CLEAR: 1.00'
CONFLICT #37
BTM UKN: 1.74'
TOP 4" ELEC: 0.74'
CLEAR: 1.00'
CONFLICT #38
BTM 12" STRM: 0.81'
TOP EX. 2" TEL: 0.95'
CLEAR: 2.11'
CONFLICT #39
BTM EX. 4" WM: 0.58'
TOP 6" WM: -0.42'
CLEAR: 1.00'
CONFLICT #40
BTM EX. 4" WM: 0.32'
TOP 4" ELEC: -0.68'
CLEAR: 1.00'
CONFLICT #41
BTM 15" STRM: 0.53'
TOP 6" WM: 0.07'
CLEAR: -0.14'
CONFLICT #42
BTM 4" ELEC: 0.12'
TOP 6" WM: -0.88'
CLEAR: 1.00'
CONFLICT #43
BTM 12" STRM: 0.75'
TOP EX. 2" TEL: 0.57'
CLEAR: 0.18'
CONFLICT #44
BTM 12" STRM: 0.75'
TOP EX. 2" TEL: 0.53'
CLEAR: 0.22'
CONFLICT #45
BTM 12" STRM: 0.76'
TOP EX. 4" ELEC: 0.68'
CLEAR: 0.08'
CONFLICT #46
BTM 12" STRM: 0.82'
TOP EX. 2" TEL: 0.93'
CLEAR: -0.11'
CONFLICT #47
BTM EX. 2" TEL: 0.95'
CLEAR: 2.11'
CONFLICT #48
BTM 12" STRM: 1.08'
TOP EX. 2" WM: 0.68'
CLEAR: 0.40'
CONFLICT #49
BTM 12" STRM: 0.81'
TOP EX. 2" TEL: 0.53'
CLEAR: 0.28'
CONFLICT #50
BTM 12" STRM: 0.81'
TOP EX. 4" ELEC: 0.61'
CLEAR: 0.14'
CONFLICT #51
BTM 12" STRM: 0.81'
TOP EX. 4" ELEC: 0.61'
CLEAR: 0.14'
CONFLICT #52
BTM 12" STRM: 0.81'
TOP EX. 4" ELEC: 0.61'
CLEAR: 0.14'
CONFLICT



NOTE:
ASPHALT MIX & THICKNESS SHALL BE PER MUNICIPALITY STANDARD REQUIREMENTS IF IT EXCEEDS FKAA MINIMUM STANDARDS.

SCALE N.T.S.	FLORIDA KEYS AQUEDUCT AUTHORITY KEY WEST, FLORIDA	PAVEMENT RESTORATION WITH BACKFILL	STANDARD DETAIL DRAWING NO. 1a
DATE 03/96			
REVISED 02/24			

PVC PIPE RESTRAINT JOINT SCHEDULE

LENGTH (L) TO BE RESTRAINED

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 90° BENDS L(FT.)	45° BENDS L(FT.)	22.5° BENDS L(FT.)	11.25° BENDS LR(FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) LU(FT.)	LI(FT.)	VALVES OR DEAD-ENDS L(FT.)
4	20	8	4	2	20	3	50
6	28	10	5	2	28	4	70
8	36	14	6	3	36	5	90
10	40	18	8	4	45	6	110
12	50	20	9	4	52	8	120
14	56	23	10	5	60	9	140
16	60	26	11	6	67	10	160
18	69	29	12	6	74	12	180
20	75	32	13	7	80	13	195
24	76	33	15	7	81	14	200
30	88	36	18	9	97	16	235
36	100	40	20	10	110	20	270
42	115	48	23	11	125	24	300
48	125	52	25	12	140	30	340

REDUCERS (SIZE)	L FT.
6 X 4	35
8 X 6	35
8 X 4	65
10 X 8	35
10 X 6	65
12 X 10	35
12 X 8	65
16 X 12	65
16 X 10	95
20 X 18	35
20 X 16	65
20 X 12	120
24 X 20	65
24 X 18	95
24 X 16	120
30 X 24	80
30 X 20	150
36 X 30	80
36 X 24	150
42 X 36	80
42 X 30	150
48 X 42	80
48 X 36	150

TEES (NOTE 5) RUN SIZE	BRANCH SIZE	L FT.
4"	4"	F.O.
6"	6"	10
	4"<LESS	F.O.
8"	8"	30
	6"<LESS	F.O.
10"	10"	48
	8"	14
	6"<LESS	F.O.
12"	12"	65
	10"	35
	8"<LESS	F.O.
16"	16"	100
	12"	40
	10"<LESS	F.O.
20"	20"	130
	16"	80
	12"<LESS	F.O.
24"	24"	130
	20"	90
	16"	40
	12"<LESS	F.O.
30"	30"	140
	24"	80
	20"	50
	16"<LESS	F.O.
36"	36"	180
	30"	120
	24"	50
	20"<LESS	F.O.
42"	42"	220
	36"	160
	30"	80
	24"	40
	20"<LESS	F.O.
48"	48"	250
	42"	180
	36"	90
	30"	40
	24"<LESS	F.O.

F.O. = FITTING ONLY

PVC PIPE RESTRAINT NOTES

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150 PSI, SOIL = GM OR SM, TRENCH TYPE 3, DEPTH OF COVER = 36".
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, LU IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN) SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FEET (MIN.).

SCALE N.T.S.	PVC PIPE RESTRAINT JOINT SCHEDULE	STANDARD DETAIL DRAWING NO. 4 (1 OF 2)
DATE 03/96		
REVISED 01/14		

FLORIDA KEYS AQUEDUCT AUTHORITY
KEY WEST, FLORIDA

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

LENGTH (L) TO BE RESTRAINED

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 90° BENDS L(FT.)	45° BENDS L(FT.)	22.5° BENDS L(FT.)	11.25° BENDS LR(FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) LU(FT.)	LI(FT.)	VALVES OR DEAD-ENDS L(FT.)
4	18	6	4	2	12	2	30
6	22	10	5	2	17	3	40
8	30	13	6	3	22	4	50
10	35	14	7	4	26	5	64
12	42	16	8	4	31	6	75
14	46	20	9	5	35	7	85
16	53	22	11	5	40	8	95
18	57	24	12	6	44	9	105
20	62	26	13	6	48	10	110
24	64	27	14	6	50	11	111
30	73	30	15	7	57	13	137
36	85	34	18	8	66	17	159
42	93	38	20	9	75	20	176
48	102	43	22	10	82	22	198

REDUCERS (SIZE)	L FT.
6 X 4	20
8 X 6	20
8 X 4	40
10 X 8	20
10 X 6	40
12 X 10	20
12 X 8	40
16 X 12	40
16 X 10	57
20 X 18	20
20 X 16	40
20 X 12	73
24 X 20	40
24 X 18	50
24 X 16	60
30 X 24	50
30 X 20	76
36 X 30	50
36 X 24	88
42 X 36	40
42 X 30	88
48 X 42	40
48 X 36	88

TEES (NOTE 5) RUN SIZE	BRANCH SIZE	L FT.
4"	4"	F.O.
6"	6"	6
	4"<LESS	F.O.
8"	8"	18
	6"<LESS	F.O.
10"	10"	27
	8"	8
	6"<LESS	F.O.
12"	12"	38
	10"	20
	8"<LESS	F.O.
16"	16"	60
	12"	20
	10"<LESS	F.O.
20"	20"	78
	16"	40
	12"<LESS	F.O.
24"	24"	76
	20"	53
	16"	20
	12"<LESS	F.O.
30"	30"	99
	24"	60
	20"	37
	16"<LESS	F.O.
36"	36"	118
	30"	88
	24"	52
	20"	20
	16"<LESS	F.O.
42"	42"	138
	36"	110
	30"	78
	24"	37
	20"<LESS	F.O.
48"	48"	154
	36"	132
	30"	99
	24"	59
	20"<LESS	F.O.

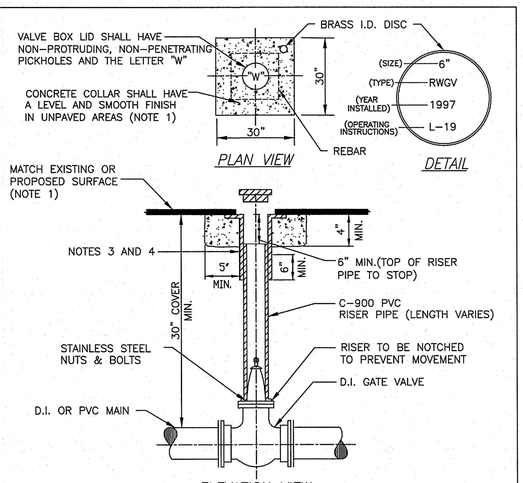
F.O. = FITTING ONLY

DIP PIPE RESTRAINT NOTES

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR = 1.5, TEST PRESSURE = 150 PSI, SOIL = GM OR SM, TRENCH TYPE 3, DEPTH OF COVER = 36".
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, LU IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN) SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. SIDE SHALL BE RESTRAINED 35 FEET (MIN.).

SCALE N.T.S.	DIP RESTRAINT JOINT SCHEDULE	STANDARD DETAIL DRAWING NO. 4 (2 OF 2)
DATE 03/96		
REVISED 01/14		

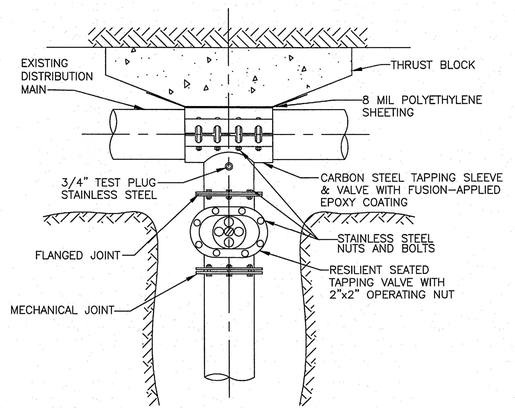
FLORIDA KEYS AQUEDUCT AUTHORITY
KEY WEST, FLORIDA



NOTES:
1. CONCRETE COLLAR ALSO MAY BE FORMED AS A 30" DIA. CIRCLE UNDER PAVEMENT.
2. IN UNPAVED AREA INSTALL VALVE BOX LID 1/2" ABOVE SURFACE. #5 REBAR SHALL BE REQUIRED.
3. U.S.F. No. 7615 OR APPROVED EQUAL WITH 6" DIA. RISER FOR VALVES 6" DIA. OR SMALLER.
4. U.S.F. No. 7630 OR APPROVED EQUAL WITH 10" DIA. RISER FOR VALVES 8" DIA. OR LARGER.
5. RESTRAIN AS REQUIRED PER DETAIL NO. 4.

SCALE N.T.S.	GATE VALVE AND BOX	STANDARD DETAIL DRAWING NO. 5
DATE 03/96		
REVISED 01/14		

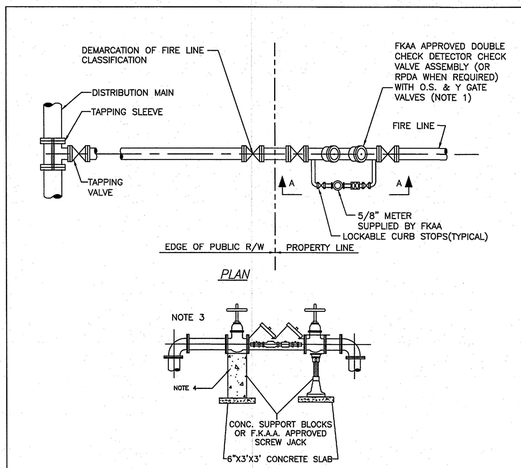
FLORIDA KEYS AQUEDUCT AUTHORITY
KEY WEST, FLORIDA



NOTES:
1. PRESSURE TEST INSTALLED TAPPING SLEEVE AND VALVE ASSEMBLY BEFORE TAPPING EXISTING MAIN. SEE FKAA MINIMUM CONSTRUCTION STANDARDS & SPECIFICATIONS.
2. SEE FKAA MINIMUM CONSTRUCTION STANDARDS & SPECIFICATIONS FOR LIST OF APPROVED TAPPING SLEEVES AND VALVES.
3. ALL TAPS SHALL BE MADE WITH AN APPROVED TAPPING DEVICE.

SCALE N.T.S.	TAPPING SLEEVE AND VALVE FOR DISTRIBUTION MAIN	STANDARD DETAIL DRAWING NO. 7
DATE 03/96		
REVISED 01/14		

FLORIDA KEYS AQUEDUCT AUTHORITY
KEY WEST, FLORIDA



NOTES:
1. REFER TO FKAA CROSS-CONNECTION CONTROL MANUAL AND FIRE PROTECTION SERVICE REQUIREMENTS IN FKAA MINIMUM CONSTRUCTION STANDARDS AND SPECIFICATIONS.
2. "Y" STRAINER NOT PERMITTED ON SEPARATE FIRE LINE.
3. REFER TO STANDARD DETAIL DRAWING No. 20, 21 or 22 FOR INSTALLATION DETAILS.
4. CONCRETE SUPPORT BLOCKS REQUIRED ON 2-1/2" AND LARGER DOUBLE CHECK VALVES.

SCALE N.T.S.	SEPARATE FIRE LINE INSTALLATION	STANDARD DETAIL DRAWING NO. 18 (2 of 2)
DATE 03/96		
REVISED 06/13		

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SYMBOL	REVISION	DATE

ISSUE DATE: 01/06/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

DESIGNER: JC
DRAWN BY: JC
REVIEWED BY: ACF
Consultant:

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CARL A. ALLEN, P.E. LICENSE NO. 73941 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 12/30/2025

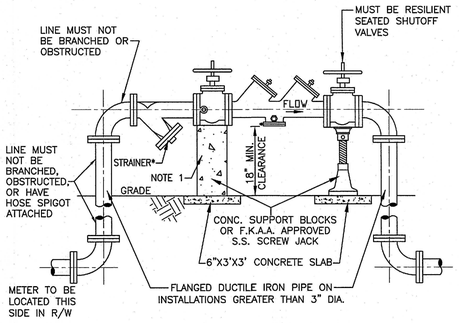
Sheet Title: UTILITY DETAIL

Project Title: JOHN PENEKAMP STATE PARK
KEY LARGO FLORIDA

Sheet Number: C-303

PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-303 UTILITY DETAIL December 30, 2025 11:35:51am K:\VRB_LDEV\John pennekamp state park\CAD\plotsheets\C-303 UTILITY DETAIL.dwg



ELEVATION VIEW

NOTES:

1. CONCRETE SUPPORT BLOCKS AND "Y" TYPE STRAINER (WITH STANDARD PERFORATED SCREEN) ON 2 1/2" AND LARGER BACKFLOW PREVENTERS.
2. THE ASSEMBLY MUST BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30" FOR THE SIDE WITH TEST COCKS AND 8" FOR THE BACK SIDE.
3. ACCEPTABLE ASSEMBLIES ARE THOSE THAT ARE APPROVED BY EITHER ASSE OR FCCCHR AND MEET THE MINIMUM DESIGN STANDARDS OF THE AWWA.

* NO STRAINER REQUIRED ON FIRE LINES.

SCALE N.T.S.	2-1/2" TO 10" REDUCED PRESSURE BACKFLOW PREVENTER INSTALLATION	STANDARD DETAIL DRAWING NO. 20
DATE 03/96		
REVISED 06/13		

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Consultant: K2M DESIGN
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Sheet Title: UTILITY DETAIL
Project Title: JOHN PENEKAMP STATE PARK
KEY LARGO FLORIDA
Sheet Number: C-304
PLOTTED:

Plotted By:Richmond, Danny Sheet Set:John Pennekamp State Park Layout:C-304 UTILITY DETAIL December 30, 2025 11:35:59am K:\VRB_LDEV\john pennekamp state park\CAD\plotsheets\C-303 UTILITY DETAIL.dwg

ELECTRICAL SYMBOLS

CONDUIT AND RACEWAY		REMARKS
———	CONDUIT RUN IN OR ON CEILING OR WALL	
- - - - - -	CONDUIT RUN IN EXPOSED AREAS	
— — — —	CONDUIT RUN UNDERGROUND	
	BRANCH CIRCUIT (DIAGRAMMATIC)	
LA-1	HOMERUN INDICATING PANEL AND CIRCUIT NUMBER.	
LA-[1,3,5]	HOMERUN WITH CIRCUIT NUMBER IN BRACKETS INDICATING MULTI-PHASE LOAD.	
ON HA-1	"ON" INDICATES CIRCUITING SPLIT AT DIFFERENT LOCATIONS	
	CONDUIT DOWN.	
	CONDUIT UP.	
	CONDUIT STUB AND CAP.	

LIGHTING SYMBOLS

LIGHTING CONTROLS		REMARKS
$	LINE VOLTAGE LIGHT SWITCH, SINGLE POLE, +48" AFF.	W, +48" AFF
$3	THREE-WAY SWITCH, +48" AFF.	W, +48" AFF
$4	FOUR-WAY SWITCH, +48" AFF.	W, +48" AFF
$D	LINE VOLTAGE DIMMER SWITCH, +48" AFF.	W, +48" AFF
$D3	THREE-WAY LINE VOLTAGE DIMMER SWITCH, +48" AFF.	W, +48" AFF
$L	LIGHT SWITCH, SINGLE POLE, LIGHTED HANDLE, +48" AFF.	W, +48" AFF
$O	MOMENTARY OVERRIDE SWITCH, +48" AFF.	W, +48" AFF
$D	LOW VOLTAGE DIMMING SWITCH, +48" AFF.	W, +48" AFF
$OS	LINE VOLTAGE DIMMING SWITCH, OCCUPANCY SENSOR +48" AFF.	W, +48" AFF
$T	DIGITAL TIME SWITCH, +48" AFF.	W, +48" AFF
(OS)	OCCUPANCY SENSOR, DUAL TECHNOLOGY.	C
(PC)	PHOTOELECTRIC SENSOR.	C
TC	TIME CLOCK	
PC	PHOTO CELL	
H#	CONTROL ETHERNET GATEWAY HUB. REFER TO LIGHTING CONTROLS RISER DIAGRAM.	FVM
PP	CONTROL POWER PACK. REFER TO LIGHTING CONTROLS RISER DIAGRAM.	FVM
S#	CONTROL DEVICE. REFER TO LIGHTING CONTROLS RISER DIAGRAM.	W, +48" AFF

LIGHTING FIXTURES

LIGHTING CONTROLS	REMARKS
HATCHED AND/OR 'EM' TAG INDICATES FIXTURE W/ 90 MIN. EMEGENCY BATTERY BACKUP.	
RECESSED TROFFER 1'X4', 2'X2', 2'X4'	
STRIP LIGHT FIXTURE	
LINEAR LIGHTING FIXTURE	
RECESSED SQUARE DOWNLIGHT FIXTURE	
RECESSED ROUND DOWNLIGHT FIXTURE	
PENDANT	
TRACK AND TRACK LIGHT FIXTURE	
WALL VANITY FIXTURE	
WALL WALL MOUNTED FIXTURE	
EXIT SIGN, SINGLE FACE, UNSWITCHED. ARROWS INDICATE PATH OF EGRESS. REFER TO ARCHITECTURAL PLANS FOR MOUNTING.	
EXIT SIGN, DOUBLE FACE, UNSWITCHED. ARROWS INDICATE PATH OF EGRESS. REFER TO PLANS FOR MOUNTING.	
SITE LIGHT	

LIGHTING DESIGNATION LEGEND

UNSHADED REGION DESIGNATES LIGHT FIXTURE FOR NORMAL OPERATION

SHADED REGION DESIGNATES LIGHT FIXTURE FOR EMERGENCY / LIFE SAFETY OPERATION

L# — LIGHT FIXTURE ID - SEE LIGHT FIXTURE SCHEDULE
PANEL - # — PANEL AND CIRCUIT DESIGNATION
— SWITCH DESIGNATION

TAG	DESCRIPTION
EM	EMERGENCY
L	LED
NL	NIGHT LIGHT (UNSWITCHED)
S	SITE LIGHTING
X	EXIT LIGHT

POWER SYMBOLS

RECEPTACLES		REMARKS
	20A, 120V, DUPLEX RECEPTACLE	W, +18" AFF
	20A, 120V, DUPLEX RECEPTACLE, ABOVE COUNTER	W. +42" AFF
GF/GP	20A, 120V, RECEPTACLE WITH GFCI PROTECTION OR PROTECTED UP STREAM	W, +18" AFF
WP	20A, 120V, RECEPTACLE WITH GFCI PROTECTION & WEATHERPROOF IN-USE COVER	W, +18" AFF
IG	20A, 120V, RECEPTACLE OUTLET W/ DEDICATED CIRCUIT & ISOLATED GROUND	W, +18" AFF
MON	20A, 120V, RECEPTACLE OUTLET FOR MONITOR. COORDINATE WITH ARCH/OWNER	W, +60" AFF
	20A, 120V, RECEPTACLE OUTLET WITH INTEGRAL USB CHARGING PORTS	W, +18" AFF
EWC	20A, 120V, DEDICATED RECEPTACLE FOR ELECTRIC WATER COOLER	W, +30" AFF
REF	20A, 120V, DEDICATED RECEPTACLE FOR REFRIGERATOR	W, +18" AFF
DISP	20A, 120V, DEDICATED RECEPTACLE FOR WASTE DISPOSAL	W, +18" AFF
	20A, 120V, QUAD RECEPTACLE	W, +18" AFF
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND VOLTAGE AS NOTED	
	20A, 120V, CEILING MOUNTED RECEPTACLE	W, +18" AFF
	20A, 120V, DUPLEX RECEPTACLE IN FLOOR	FLUSH W/ FLOOR
	20A, 120V, QUAD RECEPTACLE IN FLOOR	FLUSH W/ FLOOR
J	JUNCTION BOX, SPECIFIC USE AS INDICATED	

EQUIPMENT		REMARKS
$M	MOTOR RATED SWITCH	
$HOA	MOTOR RATED HAND-OFF-AUTO SWITCH	
	EMERGENCY POWER OFF SWITCH, MUSHROOM TYPE	AS INDICATED
	DISCONNECT SWITCH, HEAVY DUTY, NON-FUSIBLE	
	DISCONNECT SWITCH, HEAVY DUTY, FUSIBLE	
	MAGNETIC MOTOR STARTER	
	COMBINATION MOTOR STARTER & DISCONNECT SWITCH	
VFD	VARIABLE FREQUENCY DRIVE	
	120V/208V, 120V/240V ELECTRICAL PANEL	
	277V/480V ELECTRICAL PANEL	
	DISTRIBUTION PANEL	
WALL	ELECTRICAL PANEL, SURFACE MOUNTED	
WALL	ELECTRICAL PANEL, FLUSH MOUNTED	
WALL	AUXILIARY SYSTEM CABINET	AS INDICATED
WALL	INVERTER	AS INDICATED
T	TRANSFORMER	

ABBREVIATIONS

AC	ALTERNATING CURRENT	NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
AFF	ABOVE FINISHED FLOOR	NFPA	NATIONAL FIRE PROTECTION AGENCY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NORM	NORMAL
AWG	AMERICAN WIRE GAUGE	NTS	NOT TO SCALE
BLDG	BUILDING	N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
CU	COPPER	OCP	OVER CURRENT PROTECTION
DIA	DIAMETER	PH	PHASE
EX	EXISTING TO REMAIN. PROVIDE WHITE TRIM FOR NON-WHITE TRIM DEVICES	PWR	POWER
EMT	ELECTRIC METAL TUBING	PVC	POLYVINYL CHLORIDE
ENT	ELECTRIC NON-METALLIC TUBING	SES	SERVICE ENTRANCE SECTION
ETC	ETCETERA	SPD	SURGE PROTECTION DEVICE
IEEE	INSTITUTE FOR ELECTRONIC AND ELECTRICAL ENGINEERS	SWBD	SWITCHBOARD
GEC	GROUNDING ELECTRODE CONDUCTOR	TYP	TYPICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPT	UBC	UNIFORM BUILDING CODE
kW	KILOWATT	UL	UNDERWRITERS LABORATORY
KVA	KILOVOLT-AMPS	UON	UNLESS OTHERWISE NOTED
MC	METAL CLAD	UPS	UNINTERRUPTED POWER SUPPLY
MH	MOUNTING HEIGHT	W	WALL
NEC	NATIONAL ELECTRICAL CODE	XFMR	TRANSFORMER
		WP	WEATHER PROOF

COMPLIANCE DATA:

CODE:	APPLICABLE CODE BOOK AND YEAR:
BUILDING	2023 FLORIDA BUILDING CODE (2021 IBC WITH AMENDMENTS)
ELECTRICAL	2020 NATIONAL ELECTRIC CODE
ENERGY	2023 FBC ENERGY CONSERVATION, 8TH EDITION
ACCESSIBILITY	2023 FBC - ACCESSIBILITY

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REVIEWED BY: JN
Consultant:

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ISSUE DATE: NOV 2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 14749200?

Sheet Title: ELECTRICAL SYMBOLS

Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: CE-000

PLOTTED:

Plotted By:Fasano, AJ Sheet Set:John Pennekamp State Park Layout:E-000 December 12, 2025 03:36:43pm K:\VRB_LOEV\John pennekamp state park\CAD\plansheets\E-000 ELECTRICAL SYMBOLS AND ABBREVIATIONS.dwg

GENERAL ELECTRICAL CONTRACTOR NOTES

1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR IS TOTALLY FAMILIARIZED WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL OF THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.
3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
4. THE DRAWINGS INDICATE ARRANGEMENTS, APPROXIMATE SIZES, AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.
5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER
7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.
12. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.
13. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER APPROVED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE
14. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.
15. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER APPROVED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS.
16. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
17. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
18. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
19. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.
20. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.
21. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."
22. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.
23. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.
24. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.
25. WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES.
26. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.
27. GROUNDING: GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.
28. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.
29. FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
30. ALL EQUIPMENT, MATERIALS, AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
31. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
32. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. ENT TYPE CONDUIT IS NOT ALLOWED.
33. CONDUIT/CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
34. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS, AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
35. ALL CIRCUITS THAT SHARE A NEUTRAL SHALL BE PROVIDED WITH MULTIPOLE BREAKER.
36. ALL ANALOG INSTRUMENTATION WIRING SHALL BE SHIELDED.

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ISSUE FOR BID | 12/8/2025

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DESIGNER: NMS
DRAWN BY: NMS
REVIEWED BY: JN
Consultant: K2M DESIGN

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COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

Sheet Title: ELECTRICAL GENERAL NOTES
Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: CE-010

PLOTTED:

Plotted By:Fasano, AJ Sheet Set:John Pennekamp State Park Layout:E-010 December 12, 2025 03:36:51pm K:\VRB_LDEV\john pennekamp state park\LOAD\plonsheets\E-010 ELECTRICAL GENERAL NOTES.dwg

ELECTRICAL SPECIFICATIONS

PART ONE - GENERAL

1.1. THE WORK: ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR ITS INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" IS DEFINED AS ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS, WHICH SHALL BE PROVIDED BY THIS CONTRACTOR WHETHER OR NOT SPECIFICALLY INDICATED OR NOTED.

1.2. RESPONSIBILITY: THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ACTIONS OF ITS PERSONNEL, SUPPLIERS, AND SUB-CONTRACTORS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK AS MAY BE REQUIRED TO ACCOMMODATE OR SUPPORT THE ELECTRICAL WORK. EXAMPLES: PAINTING, STRUCTURAL SUPPORTS, CUTTING AND PATCHING, EXCAVATION AND BACKFILL, CONCRETE PADS, ROOF JACKS, ETC. REQUIRING THIS CONTRACTOR'S ENGAGEMENT OF APPROPRIATE TRADES TO PERFORM SUCH WORK FOR THE PROPER INSTALLATION AND OPERATION OF COMPLETE ELECTRICAL SYSTEMS.

1.3. MINIMUM REQUIREMENTS: THESE SPECIFICATIONS ESTABLISH THE MINIMUM REQUIREMENTS FOR THE WORK AND MATERIALS, EQUIPMENT AND METHODS TO BE PROVIDED. THE DRAWINGS MAY INDICATE REQUIREMENTS WHICH EXCEED THESE MINIMUMS.

1.4. GENERAL CONDITIONS: ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.

1.5. DEFINITIONS:
AHJ: AUTHORITY HAVING JURISDICTION.
ASSEMBLY: AN INSTALLATION OR SYSTEM OF MULTIPLE COMPONENTS REQUIRING MULTIPLE CONNECTIONS. (EXAMPLES: TRASH COMPACTOR, MOTORIZED DOOR, HVAC SPLIT SYSTEM, ETC.).
EQUAL: ACCEPTED BY THE ENGINEER AS EQUAL.
FF&E: FURNISHINGS, FIXTURES AND EQUIPMENT - PROVIDED BY OTHERS AT JOBSITE. RECEIVE, PROTECT, STORE, ASSEMBLE, INSTALL AND CONNECT. PROVIDE MINIMUM 6X STRUCTURAL BACKING. (EXAMPLES: CHANDELIERS, PROJECTORS, ETC.).
PROVIDE: FURNISH, INSTALL, ACTIVATE, AND COMMISSION.

1.6. CODES: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COMPLIANCE DATA LISTED ON THIS SHEET AND ALL OTHER ADOPTED APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

1.7. PERMITS: PAY ALL FEES AND OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.

1.8. DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE, AND INDICATE THE TYPE, SIZE, ARRANGEMENT AND LOCATIONS OF MATERIALS AND EQUIPMENT. WORK INCLUDES CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES THAT MAY NOT BE SHOWN. PROVIDE ALL NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO REQUIRE FINISHED WORK, TESTED AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF FEEDERS AND BRANCH CIRCUITING SHALL BE PLUMB AND AT RIGHT ANGLES TO BUILDING CONSTRUCTION, AND MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS REQUIRING ONSITE REVISIONS DURING CONSTRUCTION. (SEE ALSO "BIDDING").

1.9. COORDINATION: THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION AND COOPERATION WITH OWNER, ARCHITECT, OTHER TRADES, VENDORS, AND SPECIALTY CONTRACTORS. CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, SHOP DRAWINGS, ETC. FOR ALL GENERAL CONSTRUCTION, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SPECIALTY CONTRACTOR WORK. PRIOR TO ROUGH-IN, COORDINATE THE WORK WITH ALL OTHER TRADES, TAKING RESPONSIBILITY FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS PLANNED WITHOUT INTERFERENCE WITH OTHER WORK. ESTABLISH AND VERIFY LOCATIONS, HEIGHTS, CONNECTION METHODS, ETC. WITH EQUIPMENT INSTALLER (AND OWNER, ARCHITECT, AND/OR INTERIOR DESIGNER FOR FF&E ITEMS) AND MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES IN ORDER TO PROVIDE ACCESS FOR THE PROPER EXECUTION OF THE WORK.

1.10. IDENTICAL: ALL WORK REQUIRED FOR IDENTICAL ITEMS AND ASSEMBLIES OF THE PROJECT SHALL BE PROVIDED, ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL.

1.11. VERIFICATION: CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATION(S) OR PROBLEM(S) SHALL BE TRANSMITTED TO THE ENGINEER FOR REVIEW.

1.12. CONNECTIONS: CONNECT ALL EQUIPMENT, SYSTEMS, AND ASSEMBLIES PROVIDED BY OTHERS INCLUDING CONTROLS, SAFETY DEVICES AND INTERCONNECTIONS. EXCEPTION: DO NOT INTERCONNECT THE CONTROL SYSTEMS OF THOSE MECHANICAL AND PLUMBING SYSTEMS WHICH ARE SPECIFICALLY NOTED TO BE THE RESPONSIBILITY OF THOSE TRADES. PROVIDE FUSIBLE DISCONNECT SWITCHES AND MOTOR STARTERS FOR ALL EQUIPMENT EXCEPT THOSE ITEMS WHICH ARE SPECIFICALLY LISTED WITH INTEGRAL STARTERS/DISCONNECT SWITCHES. WHERE STARTERS AND/OR DISCONNECT SWITCHES ARE FURNISHED TOGETHER WITH EQUIPMENT, RECEIVE, INSTALL, AND CONNECT THOSE ITEMS.

1.13. SUBMITTAL: SUBMIT TO THE ENGINEER COMPLETE ELECTRONIC SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN. THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER'S FAILURE TO CORRECT ERRORS IN THE SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK AS SHOWN AND/OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING FEES NECESSARY TO CHANGE PROJECT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.

1.14. OR-EQUAL SUBSTITUTIONS: ALL PROPOSED "OR EQUAL" SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR CONSIDERATION PRIOR TO BIDDING AND AFTER ALL REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT AND/OR MATERIALS HAVE BEEN COORDINATED WITH OTHER BUILDING TRADES, INCLUDING ALL MECHANICAL, STRUCTURAL, AND/OR ARCHITECTURAL ELEMENTS. THE OWNER'S REPRESENTATIVE SHALL PRE-APPROVE ANY PROPOSED SUBSTITUTION IN WRITING. IDENTIFY AND ANNOTATE ALL REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. ALSO IDENTIFY ALL COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE AND SUMMARIZE THESE AS A TOTAL NET-TO-OWNER CHARGE OR CREDIT FOR CONSIDERATION.

1.15. AS-BUILT: UPON COMPLETION OF CONSTRUCTION, SUPPLY THE OWNER AND ENGINEER WITH AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED. PROVIDE OPERATION AND MAINTENANCE MANUAL(S) CONTAINING APPROVED SHOP DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTION FOR SWITCHGEAR, LIGHTING FIXTURES, CONTROLS, AND SPECIALTY EQUIPMENT.

1.16. GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER (LONGER IF REQUIRED BY GENERAL AND/OR SPECIAL CONDITIONS). IN ADDITION, THE INSTALLATION SHALL BE GUARANTEED TO PERFORM AS SPECIFIED AND FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTOR'S INSTRUCTIONS. SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO, THE CONTRACTOR WILL, WITHOUT DELAY AND WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CORRECT THE DEFICIENCY AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. WHERE SPECIFIED EQUIPMENT HAS A LONGER GUARANTEE PERIOD, THE TERMS OF THAT GUARANTEE SHALL GOVERN (EXAMPLE: LED SYSTEM WITH 5 YEAR GUARANTEE). INCANDESCENT LAMPS ARE EXEMPT BUT SHALL BE NEW AND UNUSED AT THE TIME OF FINAL ACCEPTANCE.

BIDDING

1.17. SITE VISIT: CONTRACT DOCUMENTS INDICATE NEW WORK TO BE PERFORMED AND DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS. COMPARE THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS AGAINST EXISTING CONDITIONS AND IDENTIFY AND ANNOTATE ALL WORK OR CONDITIONS THAT ARE DIFFERENT FROM THE CONTRACT DOCUMENTS OR THEIR INTENT. UPON DISCOVERY, IMMEDIATELY NOTIFY AND REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER. NO EXTRAS OR CHANGE ORDERS WILL BE ALLOWED FOR FAILURE TO PERFORM THE PRE-BID SITE VISIT.

1.18. BASIS OF PROPOSAL: PROPOSAL SHALL BE BASED ON MANUFACTURERS AND MODELS AS LISTED UNLESS "OR EQUAL" IS INDICATED. PROVIDE SUBSTITUTION REQUESTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING TO ALLOW TIME FOR DUE CONSIDERATION OF PROPOSED ALTERNATE AND SUBSEQUENT NOTIFICATION TO ALL OTHER BIDDERS IN THE EVENT SUBSTITUTION IS DEEMED ACCEPTABLE. DETERMINATION OF SUBSTITUTION EQUALITY RESTS SOLELY WITH THE ENGINEER.

1.19. VALUE ENGINEERING (V.E.) INITIATIVES: IN ADDITION TO THE "AS SPECIFIED/OR EQUAL" BASE BID, A COST REDUCTION INITIATIVE(S) MAY BE PROPOSED BASED ON SUBSTITUTIONS OF EQUIPMENT, MATERIALS, AND/OR METHODS. EACH SUCH PROPOSAL SHALL INCLUDE A DATA SHEET(S) ON THE SPECIFIED ITEM(S), THE PROPOSED SUBSTITUTE(S), AND THE NET CREDIT TO THE OWNER, INCLUDING ALL CREDITS AND CHARGES FROM ALL MEMBERS OF THE CONSTRUCTION TEAM. THE ENGINEER WILL REVIEW AND RENDER AN OPINION TO THE OWNER. IF THE V.E. INITIATIVE IS DECLINED, PROVIDE THE SPECIFIED EQUIPMENT/MATERIAL/METHOD. IF THE V.E. INITIATIVE IS ACCEPTED, AND IF SUCH ACCEPTANCE RESULTS IN A REQUIREMENT TO REVISE ANY DESIGN DOCUMENTS, THE CHARGES FOR THESE REVISIONS SHALL BE BILLED TO THE CONTRACTOR AND THE INVOICING SHALL BE SETTLED BEFORE THE PROJECT IS SIGNED OFF FOR FINAL ACCEPTANCE.

1.20. BIDDING: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN, AND/OR INTERIOR DRAWINGS CONTAIN DETAILED DESCRIPTIONS, CIRCUITING, AND CONNECTION REQUIREMENTS WHICH ARE PART OF THIS CONTRACTOR'S RESPONSIBILITIES. DO NOT SUBMIT BIDS ON THIS PROJECT PRIOR TO REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS, AND ADDENDA.

PART TWO - PRODUCTS

2.1. EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). EQUIPMENT SHALL BE CONSTRUCTED TO NEMA STANDARDS AND SHALL BE LABELED FOR THEIR INTENDED PURPOSE BY A RECOGNIZED TESTING AGENCY ACCEPTABLE TO THE AHJ (U.L., CSA, ETL, ETC.).

2.2. ACCEPTABLE MANUFACTURERS AND SUPPLIERS: WHERE EQUIPMENT AND MATERIALS ARE NOT SPECIFIED BY NAME THEY ARE DEEMED TO GENERIC, SUBJECT TO THE REQUIREMENTS LISTED HEREIN. THESE MANUFACTURERS ARE CONSIDERED CAPABLE OF OFFERING EQUIVALENT PRODUCTS. MINIMUM STANDARD IN ALL INSTANCES IS COMMERCIAL GRADE:
SWITCHGEAR: EATON, GENERAL ELECTRIC, SIEMENS, SQUARE D
LIGHT FIXTURES: ACUITY, COOPER, HUBBELL, THOMAS
WIRING DEVICES: HUBBELL, LEVITON, LEGRAND, WIREMOLD

2.3. CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED WHERE POSSIBLE EXCEPT WHERE NOTED. EMT WITH STEEL COMPRESSION TYPE FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. IMC OR RIGID CONDUIT BELOW GRADE SHALL BE HALF-LAP WRAPPED WITH 20 MIL PVC TAPE. TYPE ENT RACEWAY IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND/OR VIBRATING EQUIPMENT WITH STEEL FLEX OR SEALTITE CONDUIT. ALL CONDUIT SHALL HAVE PULL-STRING IF OTHERWISE EMPTY.

2.4. MC CABLE: HOSPITAL GRADE MC CABLE MAY BE USED ONLY WITH SPECIFIC PERMISSION FROM THE ENGINEER. MC CABLE USE SHALL BE LIMITED TO CIRCUITING SOLUTIONS IN TIGHT CONDITIONS WHERE CONDUIT AND WIRE CIRCUITING CANNOT FIT. HOMERUNS AND FEEDERS SHALL BE CONDUIT AND WIRE.

2.5. WIRING: ALL WIRE SHALL BE COPPER UNLESS OTHERWISE NOTED. ALL WIRE SHALL BE STRANDED IN SIZES #10 AWG AND LARGER WITH XHHW INSULATION. SINGLE PHASE BRANCH CIRCUITS SHALL INCLUDE A SEPARATE NEUTRAL WIRE WITH EACH PHASE WIRE. HOMERUNS TO PANELBOARDS SHALL BE MINIMUM #10 AWG CU IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.

2.6. FUSES AND CIRCUIT BREAKERS: FUSES AND CIRCUIT BREAKERS SHALL BE SIZED PER ACTUAL RESPECTIVE APPLICATION (i.e., MOTOR CIRCUIT PROTECTOR, GROUND FAULT CIRCUIT INTERRUPTER, ARC FAULT CIRCUIT INTERRUPTER, ETC.). FUSES SHALL BE DUAL ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. PROVIDE LOCKABLE SPARE FUSE CABINET WITH (3) SPARE FUSES OF EACH SIZE USED.

2.7. DISTRIBUTION SWITCHGEAR: SWITCHGEAR SHALL HAVE COPPER BUS AND HEAVY GAUGE HOUSINGS. SWITCHGEAR IN LOCATIONS OTHER THAN LOCKED ELECTRIC ROOMS SHALL HAVE LOCKABLE COVERS. SWITCHGEAR SHALL HAVE NO LESS THAN 20% SPARE BUSSED AND USABLE SPACE, MEASURED AS A PERCENTAGE OF THE SPACE OCCUPIED BY SPECIFIED CIRCUIT BREAKERS, SWITCHES, ETC.

2.8. SERVICE SWITCHGEAR: IN ADDITION TO THE ABOVE, SERVICE SWITCHGEAR SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY.

2.9. PANELBOARDS: PANELS SHALL HAVE COPPER BUS AND HARDWARE, BOLT-ON CIRCUIT BREAKERS, FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR-IN-DOOR) WITH LOCKABLE MASTER-KEYED FLUSH LATCHES. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: (1) 3/4" CONDUIT FOR EACH THREE (3) SPARE/SPACE CIRCUITS.

2.10. SAFETY SWITCHES: SWITCHES SHALL BE GENERAL DUTY UP TO 250 VOLTS, HEAVY DUTY ABOVE 250 VOLTS. FUSIBLE SWITCHES SHALL BE FUSED PER THE NAMEPLATE REQUIREMENTS OF THE EQUIPMENT BEING CONNECTED.

2.11. MOTOR STARTERS: STARTERS SHALL BE MINIMUM NEMA SIZE 1 WITH INTEGRAL CONTROL TRANSFORMER, RED NEON "RUN" PILOT LIGHT AND "ON-OFF-AUTO" SELECTOR SWITCH ON COVER. OVERLOAD DEVICES SHALL BE SIZED PER THE NAMEPLATE AMPERAGE OF THE EQUIPMENT BEING CONTROLLED.

2.12. VARIABLE FREQUENCY DRIVE (VFD): RATED FOR MOTOR HORSEPOWER WITH MINIMUM EFFICIENCY OF 95% AND MINIMUM POWER FACTOR RATING OF 0.95 AT FULL LOAD.

2.13. LIGHTING CONTROLLER: SHALL BE DIGITAL TIME SWITCH RATED FOR OPERATING VOLTAGE, WITH 365 DAY PROGRAMMING AND AUTOMATIC ADJUSTMENT. NEMA ENCLOSURE SHALL BE RATED FOR INSTALL LOCATION ENVIRONMENT.

2.14. CONTACTORS: CONTACTORS SHALL BE ELECTRICALLY HELD WITH "ON-OFF-AUTO" SELECTOR SWITCH ON COVER.

2.15. RATINGS: ALL ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR BRACING IN EXCESS OF THE MAXIMUM AVAILABLE FAULT CURRENT CALCULATED AND SHOWN AT THE EQUIPMENT CONNECTION POINT WITHIN THE DISTRIBUTION SYSTEM. MINIMUM RATING SHALL BE 10K AIC.

2.16. WIRING DEVICES: WIRING DEVICES (SWITCHES, RECEPTACLES, ETC.) SHALL BE SPECIFICATION GRADE "DECORA" STYLE, MINIMUM 20-AMP RATED. COVER PLATES SHALL BE NYLON. DEVICE AND PLATE COLOR(S) SHALL BE AS SPECIFIED BY ARCHITECT OR INTERIOR DESIGNER -VERIFY PRIOR TO COMMENCEMENT OF WORK. WIRING DEVICES EXPOSED TO THE ELEMENTS SHALL HAVE WEATHERPROOF-IN-USE LOCKABLE COVERS. RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. REFER TO FOOD SERVICE NOTES (IF APPLICABLE TO THIS PROJECT) FOR ADDITIONAL REQUIREMENTS.

2.17. TRANSFORMERS: TRANSFORMERS SHALL BE TYPE TP-1 MINIMUM, WITH COPPER WINDINGS, RATED FOR 150°C RISE (UNLESS OTHERWISE NOTED), MOUNTED ON RUBBER-IN-SHEAR VIBRATION ISOLATORS, CONNECTED WITH FLEXIBLE CONDUIT. PUBLISHED AND MEASURED NOISE RATING SHALL NOT EXCEED NEMA TP-20 MAXIMUM.

2.18. LIGHTING FIXTURES: LIGHT FIXTURES SHALL BE PROVIDED WITH ALL ASSOCIATED HARDWARE (HANGER BARS, PENDANTS, STEMS, RESTRAINTS, CHAINS, CORDS, LAMPS, ETC.). LENSES SHALL BE ACRYLIC; REFLECTORS SHALL BE ANODIZED. LED FIXTURES SHALL BE PROVIDED WITH INTERNAL MULTI-VOLT DIMMABLE DRIVERS, CRI OF 80 OR HIGHER, AND ENCLOSURE SUITABLE FOR APPLICATION. EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED TO PREVENT WATER, DUST, AND INSECT INTRUSION, WITH GASKETING FOR DOOR/BACKPLATE AND SEALANT AT THE WIRING ENTRY POINT. REFER TO LIGHTING FIXTURE SCHEDULE WITHIN PLAN SET FOR ADDITIONAL REQUIREMENTS (LED CRITERIA, ETC.).

2.19. TAMPERPROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE DEMONSTRATED TO BE TAMPERPROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PAD LOCKABLE.

PART THREE - EXECUTION

3.1. GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH THE REQUIREMENTS OF NEC ARTICLE 250. PROVIDE CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUIT RACEWAYS. WHERE ISOLATED GROUNDS ARE INDICATED, PROVIDE INSULATED CONDUCTOR (GREEN WITH YELLOW STRIPE).

3.2. POWER STUDIES: CONTRACTOR TO PROVIDE ARC FLASH STUDY AND LABELING ON ALL NEW EQUIPMENT IN ACCORDANCE WITH NFPA 70 AND NFPA 70E AND SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID.

3.3. UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY OTHERS).

3.4. TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER DISTRIBUTION AND LIGHTING AS REQUIRED FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT IN COMPLIANCE WITH ALL NEC AND OSHA REQUIREMENTS. OWNER SHALL NOT BE RESPONSIBLE FOR TEMPORARY POWER CHARGES. CONTRACTOR TO PROVIDE TEMPORARY GENERATORS IN ACCORDANCE WITH THE PHASING PLANS. CONTRACTOR SHALL PROVIDE TEMPORARY GENERATOR PLAN AS A SUBMITTAL DURING CONSTRUCTION FOR FINAL REVIEW AND APPROVAL. NO OUTAGE SHALL OCCUR WITHOUT WRITTEN AUTHORIZATION. COORDINATE OUTAGES WITH FACILITY STAFF, OWNER, AND OTHER DISCIPLINES.

3.5. LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER AT NO ADDED COST.

3.6. WORKMANSHIP: THE WORK SHALL BE INSTALLED PARALLEL AND AT RIGHT ANGLES TO THE BUILDING LINES, LEVEL AND PLUMB. THE WORK SHALL BE WELL SUPPORTED AND SOLIDLY MOUNTED. DRESS AND TIE WIRING IN PANELBOARDS AND SWITCHGEAR. THE WORK SHALL BE LEFT CLEAN WITH NO DIRT, DENTS, ABRASIONS, PAINT SPLATTERS, OR OTHER IRREGULARITIES.

3.7. FIRE STOPPING: ALL PENETRATED FIRE RATED SURFACES SHALL BE FIRE SEALED WITH APPROVED U.L. LISTED SEALANTS AS LISTED WITHIN ARCHITECTURAL SPECIFICATIONS. DO NOT EXCEED MAXIMUM ALLOWABLE SURFACE PENETRATIONS DEPENDENT ON RATING OF SURFACES. REFER TO ARCHITECTURAL DRAWINGS FOR DETERMINATION OF PENETRATION LOCATIONS THROUGH FIRE RATED ASSEMBLIES.

3.8. SUPPORTS AND HANGERS: PROVIDE 3" HIGH HOUSEKEEPING CONCRETE PAD BENEATH FLOOR MOUNTED EQUIPMENT, EXTENDING 3" BEYOND EQUIPMENT FOOTPRINT. SUPPORT AND ALIGN ALL RACEWAYS, CABINETS, BOXES, BACK BOXES, FIXTURES, AND EQUIPMENT FROM STRUCTURE. SECURE ALL SUPPORTING METHODS BY MEANS OF TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION BOLTS IN SOLID MASONRY, CONCRETE PRESET INSERTS OR EXPANSION BOLTS IN CONCRETE, MACHINE SCREWS OR BOLTS IN METAL, AND WOOD SCREWS IN WOOD CONSTRUCTION. ALL SUPPORTING SYSTEMS AND COMPONENTS SHALL BE RATED FOR A MINIMUM OF FIVE (5) TIMES THE ACTUAL LOAD.

3.9. SLEEVES AND PENETRATIONS: PENETRATIONS OF ALL SURFACES SHALL BE PROVIDED WITH SLEEVES THAT SHALL BE SEALED WITH LIKE MATERIALS AND SHALL BE FINISHED WITH ESCUTCHEON PLATES. PENETRATIONS BELOW GRADE LEVEL SHALL BE WATERTIGHT. PENETRATIONS AT EXTERIOR WALLS SHALL BE WEATHERPROOF. ROOF PENETRATIONS SHALL BE FLASHED AND COUNTER FLASHED.

3.10. EXPANSION AND CONTRACTION: RACEWAYS PASSING THROUGH BUILDING EXPANSION JOINTS, ON ROOF, AND IN AREAS OF TEMPERATURE VARIATIONS GREATER THAN 30°F SHALL BE INSTALLED WITH EXPANSION FITTINGS.

3.11. IDENTIFICATION FOR ELECTRICAL SYSTEMS:

3.11.1. IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS AND ELECTRICALLY CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. BOXES SHALL BE MARKED WITH PANEL AND CIRCUIT NUMBERS (PERMANENT PEN ACCEPTABLE ABOVE CEILING). NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED. CONDUCTORS SHALL BE TAGGED WITH CIRCUIT NUMBERS AT SOURCE, JUNCTION BOXES, AND ALL OUTLET BOXES WITH PERMANENT ADHESIVE MARKER STRIP. PANEL DIRECTORIES SHALL BE TYPED. IDENTIFY WIRING DEVICES WITH SELF ADHESIVE CLEAR SATIN FINISH LABELS WITH SOURCE AND CIRCUIT NUMBER.

3.11.2. CONDUCTOR COLOR-CODING FOR PHASE AND VOLTAGE-LEVEL, 600V OR LESS: USE COLORS LISTED BELOW FOR UNGROUNDED SERVICE, FEEDER, AND BRANCH-CIRCUIT CONDUCTORS. COLOR SHALL BE FACTORY APPLIED.

208/120V CIRCUITS	PHASE A - BLACK	PHASE B - RED	PHASE C - BLUE
240V CIRCUITS	PHASE A - BLACK	PHASE B - RED	
480/277V CIRCUITS	PHASE A - BROWN	PHASE B - ORANGE	PHASE C - YELLOW
NEUTRAL	WHITE OR GRAY		
EQUIPMENT GROUNDS	BARE COPPER, GREEN, GREEN WITH YELLOW STRIPE		
ISOLATED GROUNDS	GREEN WITH TWO OR MORE YELLOW STRIPES		

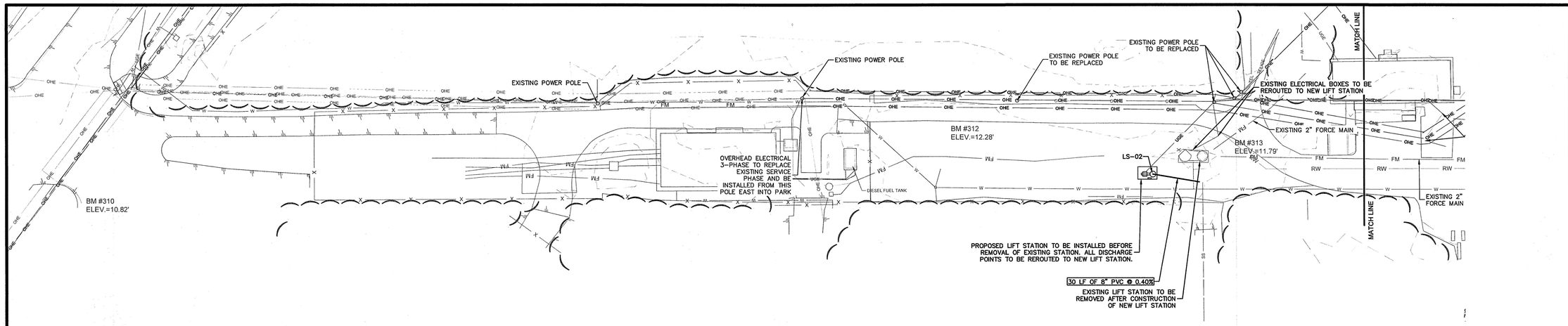
3.12. ELECTRIC ROOM CODE COMPLIANCE: DUE TO THE DIAGRAMMATIC NATURE OF THE DESIGN DOCUMENTS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, ETC.), COORDINATE WITH ALL OTHER SUBCONTRACTORS AT THE START OF THIS PROJECT TO INFORM AND VERIFY THAT NO FOREIGN SYSTEMS OR EQUIPMENT ARE MOUNTED ABOVE ELECTRICAL EQUIPMENT OR PASS THROUGH THE DESIGNATED ELECTRIC ROOMS, AND THAT A MINIMUM OF 7'-0" IS PROVIDED AS CLEAR HEADROOM ALONG ACCESS PATHS TO ELECTRIC ROOMS. ANY REROUTING OR RELOCATION OF SYSTEMS THAT A SUBCONTRACTOR FEELS WILL COMPROMISE THE DESIGN INTENT SHALL BE DESCRIBED IN WRITING AND FORWARDED TO THE DESIGN ENGINEER FOR FURTHER REVIEW. ALL PIPING TO HVAC UNITS THAT COOL ELECTRIC ROOMS SHALL BE LOCATED ABOVE ENTRY DOOR. THE SPRINKLER PIPING TO PROVIDE PROTECTION FOR THE ELECTRIC ROOM IS PREFERRED TO ENTER THE ROOM ABOVE THE ENTRY DOOR AND RUN DOWN THE AISLE SPACES OF THE ROOM. ALL INSTALLATIONS SHALL BE FULLY COORDINATED AMONGST ALL TRADES.

3.13. ELECTRICALLY OPERATED EQUIPMENT: VERIFICATION AND SUBSTITUTION: FEEDERS AND OVER-CURRENT DEVICES (INCLUDING STARTERS, DISCONNECTS, ETC.) HAVE BEEN DESIGNED BASED ON INFORMATION PROVIDED BY THE RESPONSIBLE CONSULTANT AND/OR DESIGNATED SUPPLIER. PRIOR TO ROUGH-IN, COORDINATE WITH THE APPROPRIATE TRADE AND/OR DETERMINE THAT THE ACTUAL NAMEPLATE ELECTRICAL REQUIREMENTS MATCH THIS DESIGN. ALL ADDITIONAL ELECTRICAL COSTS RELATED TO THE CONNECTION OF EQUIPMENT WHICH VARIES FROM THE ORIGINAL INSTALLER TO SPECIFICATIONS SHALL BE RESOLVED WITHIN THE CONSTRUCTION TEAM AT NO ADDITIONAL COST TO THE OWNER.

3.14. ADDITIONAL SYSTEMS AND EQUIPMENT CONNECTIONS: IN ADDITION TO EQUIPMENT POWER FEEDERS AND CONNECTIONS INDICATED ON THE ELECTRICAL DRAWINGS, PROVIDE 120V CONTROL POWER CONNECTIONS TO SMOKE/FIRE DAMPERS, VAV BOXES, TEMPERATURE CONTROL, FIRE ALARM PANELS, DOOR HOLDING/LATCHING DEVICES, ETC. AS INDICATED IN THE PROJECT DRAWINGS AND SPECIFICATIONS AS WELL AS ALL DESIGN-BUILD SYSTEM DRAWING.

ITEM	POWER SOURCE	MAX NO. PER 20A CIRCUIT	PROVIDE SMOKE DETECTOR
FIRE/SMOKE DAMPER	EMERGENCY	10	YES
VAV TERMINAL (NO FAN)	NORMAL (VERIFY)	10	NO
TEMPERATURE CONTROL PANEL	EMERGENCY (VERIFY)	1	NO
FIRE ALARM PANEL	EMERGENCY	1	NO
DOOR HOLDING/LATCHIN DEVICES	EMERGENCY	10	NO

3.15. HOURS OF OPERATION: CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING BUSINESS OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT, AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS



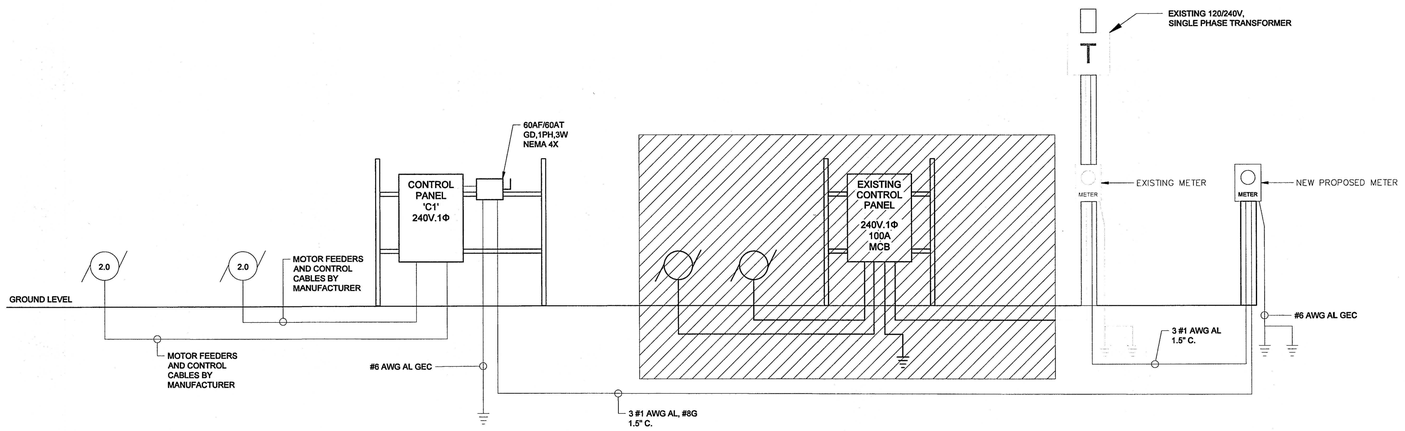
1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'

GENERAL NOTES

A. PROPOSED LIFT STATION TO BE INSTALLED BEFORE REMOVAL OF EXISTING STATION.

B. EXISTING LIFT STATION TO BE REMOVED AFTER CONSTRUCTION OF NEW LIFT STATION.

C. EXISTING ELECTRICAL BOXES TO BE REROUTED TO NEW LIFT STATION.



2 ELECTRICAL RISER DIAGRAM
SCALE: NO SCALE

LOAD CALCULATIONS

MOTORS:					
PUMP NO. 1	2.0 HP,	240 VAC,	1 Ø,	12.0 A	
PUMP NO. 2	2.0 HP,	240 VAC,	1 Ø,	12.0 A	
	MOTOR SUB-TOTAL			24.0 A	
	+ 25% OF LARGEST MOTOR			3.0 A	
	SUB-TOTAL			27.0 A	
AUXILIARY EQUIPMENT				10.0 A	
TOTAL MAXIMUM PHASE AMPERES				37.0 A	
SERVICE SIZE:					
60 A,	240 VAC,	1 Ø,	2 - WIRE MINIMUM.		

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THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

GW K2M roto Kimley»Horn

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE
	ISSUE FOR BID	12/9/2025

ISSUE DATE: NOV 2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 147492002

DESIGNER: NMS
DRAWN BY: NMS
REVIEWED BY: JN

Consultant: K2M DESIGN
Architecture, Engineering, Interior Design, Facility Asset Management

Key Largo, Florida
Key West, Florida
Marathon, Florida
www.k2mdesign.com
PROF. REG. AA26001059
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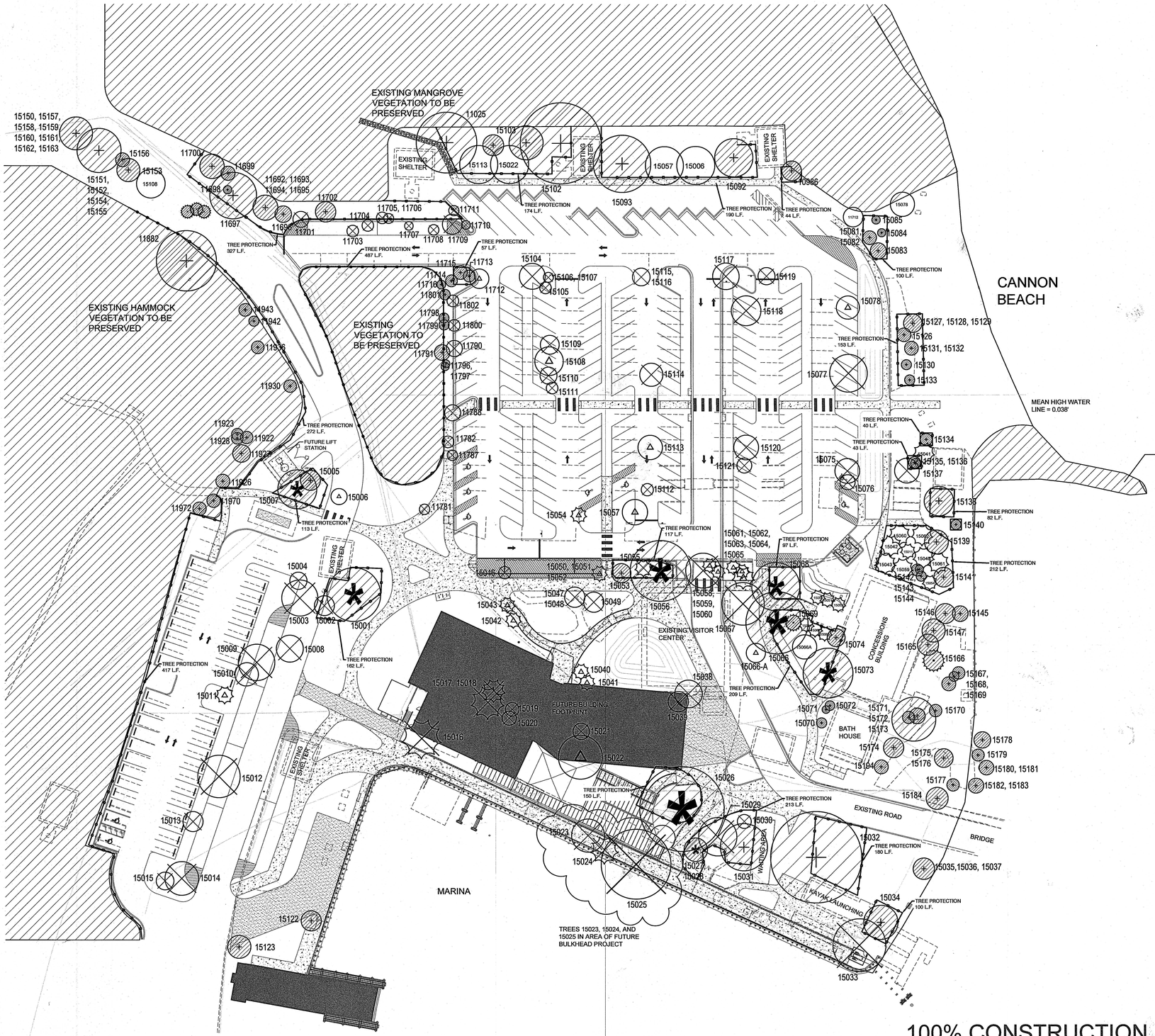
Sheet Title: ELECTRICAL SITE PLAN

Project Title: JOHN PENEKAMP STATE PARK

Sheet Number: CE-100

PLOTTED:



TREE DISPOSITION LEGEND

- TREE/PALM TO REMAIN
- TREE/PALM TO REMOVE
- TREE/PALM TO RELOCATE
- ## TREE/PALM RELOCATED TO NEW LOCATION
- TREE PROTECTION BARRIER
- EXISTING TREE TO BE BRACED

BRANCH & ROOT PRUNING NOTE:
FOR TREES 15001, 15007, 15014, 15015, 15026, 15027,15028, 15029, 15056, 15066, 15068, 15077 AND 15118 BRANCH AND ROOT PRUNING BY AN ISA CERTIFIED ARBORIST WILL BE REQUIRED ONLY WHERE THERE WILL BE INTERFERENCE FROM CONSTRUCTION EQUIPMENT/ACTIVITIES.

NOTES:
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- REMOVE ALL INVASIVE AND NATURALIZED PLANTS AROUND TREES TO REMAIN AND WITHIN PROJECT AREA.

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TREE DISPOSITION SITE PLAN
Scale 1" = 40'

0 20 40 80 120
SCALE IN FEET

NORTH

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SYMBOL	REVISION	DATE
1	REVISION 1	12/17/25

ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

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West Palm Beach, Florida
Marathon, Florida
www.k2mdesign.com
Professional Landscape Architecture
Planning, Restoration
Based on Trust and Results
Certified Arborists (Palm Beach, Miami, Martin) | Certified Balloonist | Certified Pilot

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LA 6667386
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667386

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JOHN PENNEKAMP

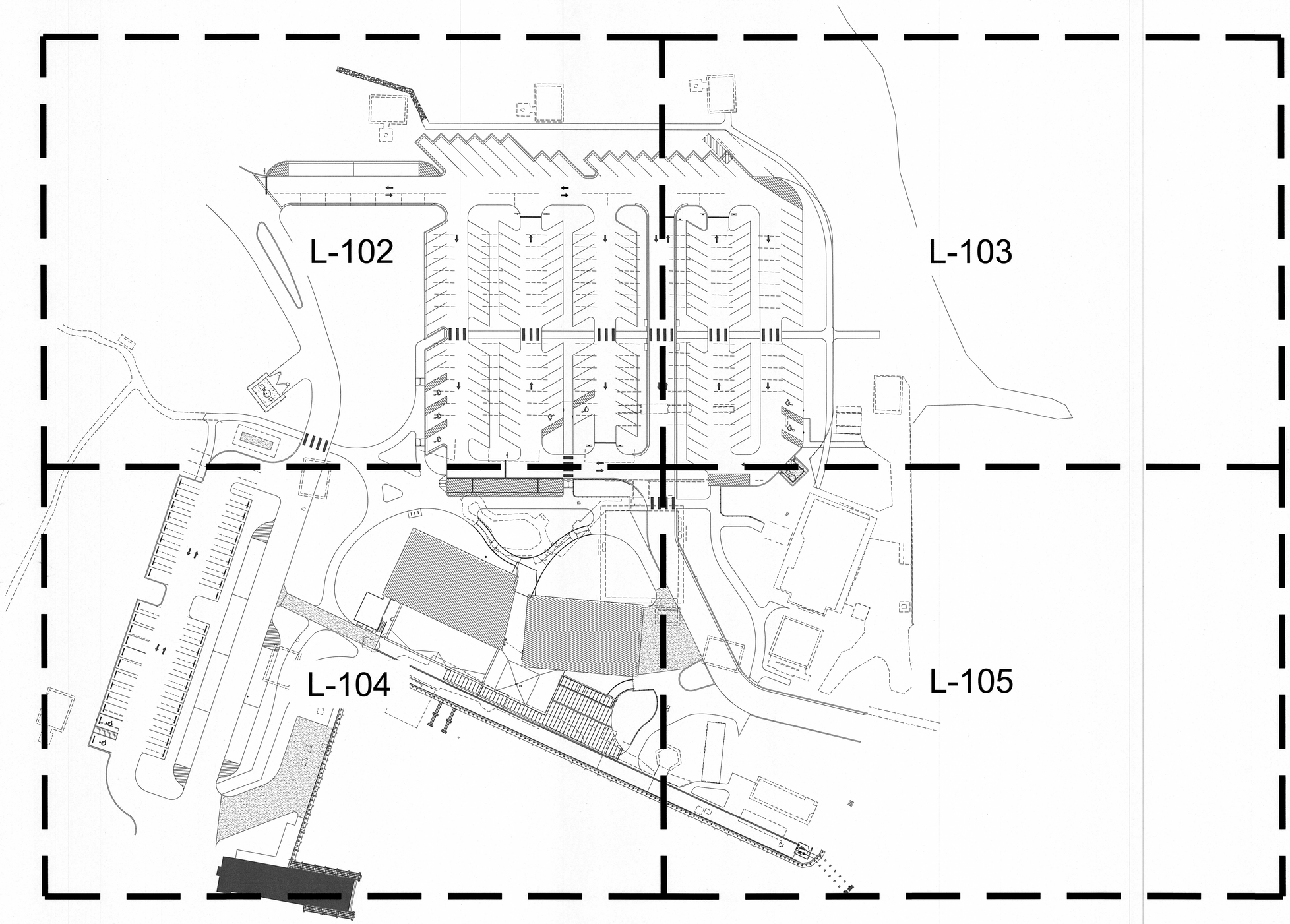
Sheet Title: TREE DISPOSITION SITE PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L100

PLOTTED: 12/23/2025

12/23/2025



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TREE DISPOSITION LAYOUT PLAN
Scale 1" = 40'

0 20 40 80 120
SCALE IN FEET

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ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

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Key West, Florida
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REGISTERED LANDSCAPE ARCHITECT
RAFAEL J. FERRER
LA 6667366
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

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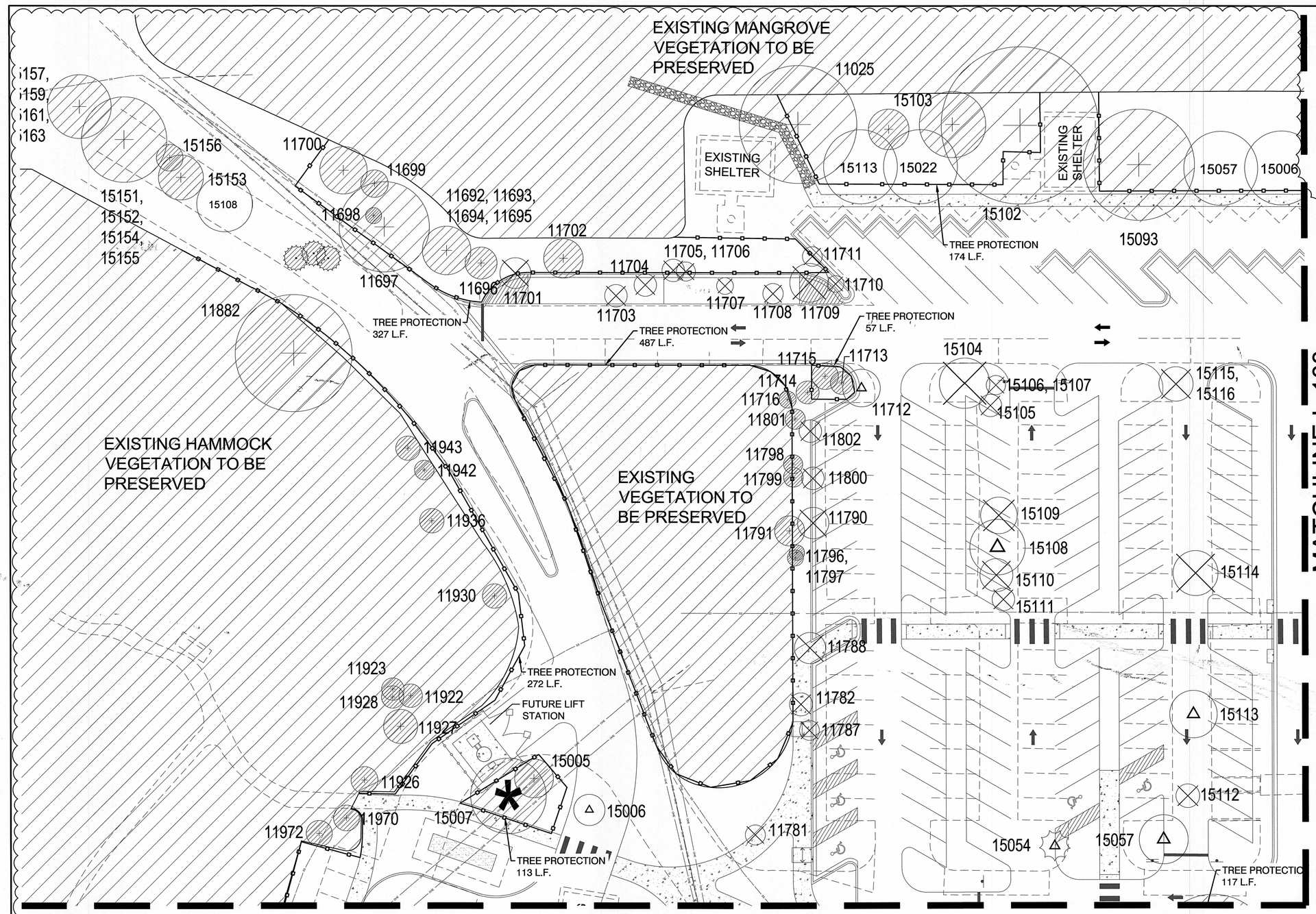
Sheet Title: TREE DISPOSITION LAYOUT SITE PLAN

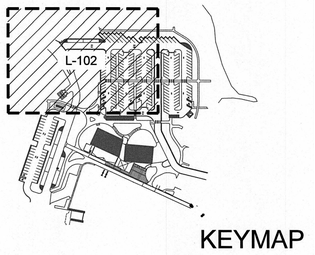
Project Title: INTERPRETATIVE CENTER

Sheet Number: L101

PLOTTED: 12/23/2025

12/23/2025





KEYMAP

TREE DISPOSITION LEGEND

- TREE/PALM TO REMAIN
- TREE/PALM TO REMOVE
- TREE/PALM TO RELOCATE
- TREE/PALM RELOCATED TO NEW LOCATION
- TREE PROTECTION BARRIER
- EXISTING TREE TO BE BRACED

BRANCH & ROOT PRUNING NOTE:
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- REMOVE ALL INVASIVE AND NATURALIZED PLANTS AROUND TREES TO REMAIN AND WITHIN PROJECT AREA.

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ENLARGED TREE DISPOSITION PLAN
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

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ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

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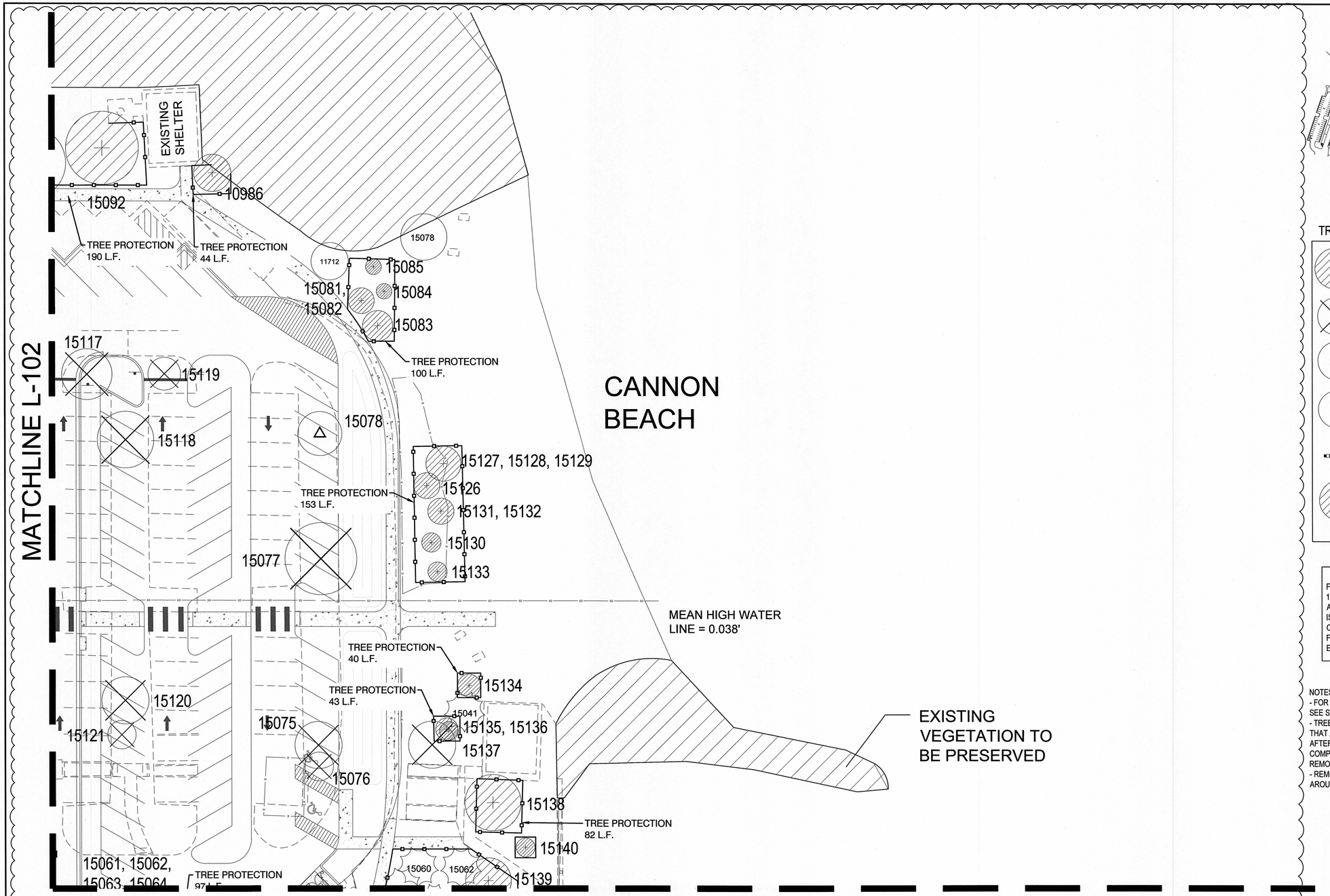
Sheet Title: ENLARGED TREE DISPOSITION PLAN

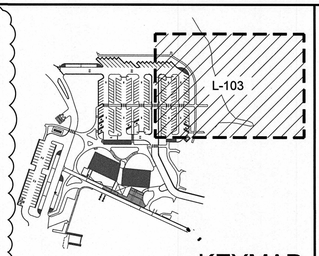
Project Title: INTERPRETATIVE CENTER

Sheet Number: L102

PLOTTED: 12/23/2025

12/23/2025





KEYMAP

TREE DISPOSITION LEGEND

- TREE/PALM TO REMAIN
- TREE/PALM TO REMOVE
- TREE/PALM TO RELOCATE
- TREE/PALM RELOCATED TO NEW LOCATION
- TREE PROTECTION BARRIER
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ENLARGED TREE DISPOSITION PLAN
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

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ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

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REGISTERED LANDSCAPE ARCHITECT
RAFAEL J. FERRER
LA 6667366
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

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JOHN PENNEKAMP

Sheet Title: ENLARGED TREE DISPOSITION PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L103

PLOTTED: 12/23/2025

12/23/2025

MATCHLINE L-102

MATCHLINE L-105

15004
15003
15002
15001
EXISTING SHELTER
15009
15008
15010
15011
15012
15013
15015
15014
EXISTING SHELTER
15122
15123
15046
15050, 15051, 15052
15055
15053
15047, 15048
15049
15043
15042
15056
15505
15502
15506
15040
15041
15503
15017, 15018
15019
15020
15016
15021
15022
15039
15023
15024
15027, 15028
15025
EXISTING VISITOR CENTER
FUTURE BUILDING FOOTPRINT
MARINA
TREE PROTECTION
417 L.F.
TREE PROTECTION
162 L.F.
TREE PROTECTION
150 L.F.
TREES 15023, 15024, AND 15025 IN AREA OF FUTURE BULKHEAD PROJECT

L-104

KEYMAP

TREE DISPOSITION LEGEND

- TREE/PALM TO REMAIN
- TREE/PALM TO REMOVE
- TREE/PALM TO RELOCATE
- ## TREE/PALM RELOCATED TO NEW LOCATION
- TREE PROTECTION BARRIER
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ENLARGED TREE DISPOSITION PLAN
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

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ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

Architecture, Engineering, Landscape Architecture, Facility Asset Management

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Key West, Florida
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REGISTERED LANDSCAPE ARCHITECT
RAFAEL J. FERRER
LA 6667366
STATE OF FLORIDA
12-23-2025
Rafael J. Ferrer, LA 6667366

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Sheet Title: ENLARGED TREE DISPOSITION PLAN
Project Title: INTERPRETATIVE CENTER

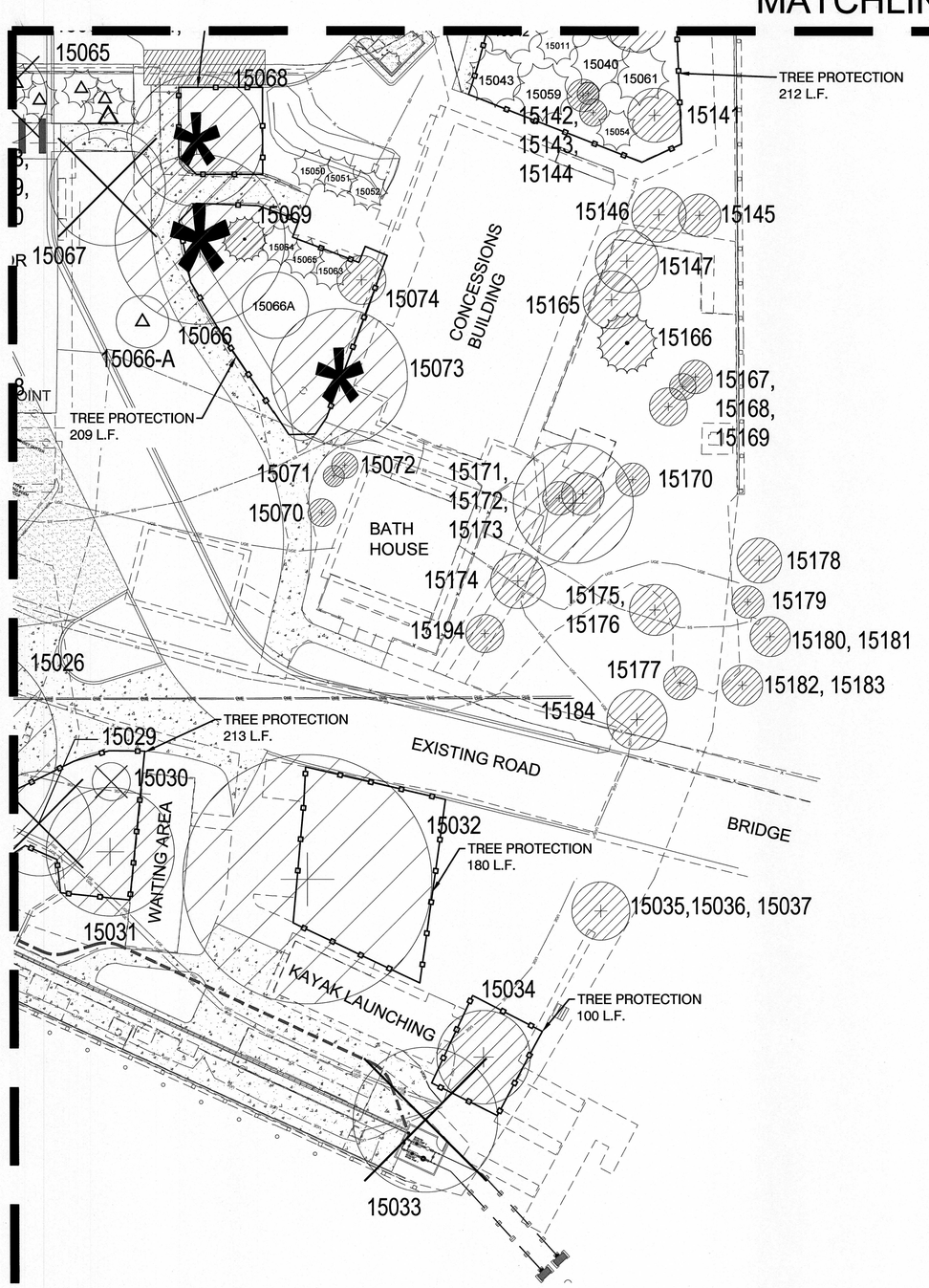
Sheet Number:
L104

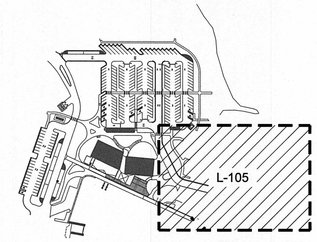
PLOTTED:
12/23/2025

12/23/2025

MATCHLINE L-103

MATCHLINE L-104





KEYMAP

TREE DISPOSITION LEGEND

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- TREE/PALM TO REMOVE
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ENLARGED TREE DISPOSITION PLAN
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

1

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DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

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Rafael J. Ferrer, Digitally signed by Rafael J. Ferrer
Date: 2026.02.10 12:23:20 -05'00'

JOHN PENNEKAMP

Sheet Title: ENLARGED TREE DISPOSITION PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L105

PLOTTED: 12/23/2025

12/23/2025

ON-SITE TREE INVENTORY & DISPOSITION SCHEDULE

Tree No.	Scientific Name	Common Name	DBH		Trunks	Condition	Action	Notes
10986	Rhizophora mangle	Red Mangrove	10	in		Good	REMAIN	
11025	Swietenia mahagoni	Mahogany	30	in		Good	REMAIN	
11692	Lysiloma latisiliquum	Wild Tamarind	5	in		Good	REMAIN	
11693	Conocarpus erectus	Buttonwood	9	in		Good	REMAIN	
11694	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	
11695	Coccoloba uvifera	Seagrape	4	in		Good	REMAIN	
11696	Conocarpus erectus	Buttonwood	8	in		Good	REMAIN	
11697	Swietenia mahagoni	Mahogany	23	in		Good	REMAIN	
11698	Metopium toxiferum	Poisonwood	5	in		Good	REMAIN	
11699	Metopium toxiferum	Poisonwood	7	in		Good	REMAIN	
11700	Coccoloba uvifera	Seagrape	12	in		Good	REMAIN	
11701	Conocarpus erectus	Buttonwood	8	in		Good	REMOVE	
11702	Coccoloba uvifera	Seagrape	10	in		Good	REMAIN	
11703	Ficus aurea	Strangler Fig	6	in		Good	REMOVE	
11704	Metopium toxiferum	Poisonwood	5	in		Good	REMOVE	
11705	Coccoloba uvifera	Seagrape	6	in		Good	REMOVE	
11706	Coccoloba uvifera	Seagrape	5	in		Good	REMOVE	
11707	Metopium toxiferum	Poisonwood	4	in		Good	REMOVE	
11708	Coccoloba uvifera	Seagrape	5	in		Good	REMOVE	
11709	Conocarpus erectus	Buttonwood	10	in		Good	REMOVE	
11710	Conocarpus erectus	Buttonwood	4	in		Good	REMOVE	
11711	Coccoloba uvifera	Seagrape	5	in		Good	REMOVE	
11712	Conocarpus erectus	Buttonwood	10	in		Good	RELOCATE	
11713	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	
11714	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	
11715	Conocarpus erectus	Buttonwood	7	in		Good	REMAIN	
11716	Metopium toxiferum	Poisonwood	4	in		Good	REMAIN	
11781			5	in		Good	REMOVE	
11782	Metopium toxiferum	Poisonwood	6	in		Good	REMOVE	
11787	Coccoloba uvifera	Seagrape	5	in		Good	REMOVE	
11788	Lysiloma latisiliquum	Wild Tamarind	8	in		Good	REMOVE	
11790	Coccoloba uvifera	Seagrape	8	in		Good	REMOVE	
11791	Conocarpus erectus	Buttonwood	8	in		Good	REMAIN	
11796	Conocarpus erectus	Buttonwood	5	in		Good	REMAIN	
11797	Metopium toxiferum	Poisonwood	4	in		Good	REMAIN	
11798	Metopium toxiferum	Poisonwood	4	in		Good	REMAIN	
11799	Conocarpus erectus	Buttonwood	5	in		Good	REMAIN	
11800	Coccoloba uvifera	Seagrape	6	in		Good	REMOVE	
11801	Metopium toxiferum	Poisonwood	5	in		Good	REMAIN	
11802	Swietenia mahagoni	Mahogany	6	in		Good	REMOVE	
11882	Lysiloma latisiliquum	Wild Tamarind	30	in		Good	REMAIN	
11922	Metopium toxiferum	Poisonwood	6	in		Good	REMAIN	
11923	Metopium toxiferum	Poisonwood	6	in		Good	REMAIN	
11926	Metopium toxiferum	Poisonwood	5	in		Good	REMAIN	
11927	Lysiloma latisiliquum	Wild Tamarind	9	in		Good	REMAIN	
11928	Metopium toxiferum	Poisonwood	6	in		Good	REMAIN	
11930	Metopium toxiferum	Poisonwood	7	in		Good	REMAIN	
11936	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	
11942	Metopium toxiferum	Poisonwood	5	in		Good	REMAIN	
11943			6	in		Good	REMAIN	
11970	Metopium toxiferum	Poisonwood	5	in		Good	REMAIN	
11972			5	in		Good	REMAIN	
15001	Coccoloba uvifera	Seagrape	26	in		Good	REMAIN	
15002	Bursera simaruba	Gumbo Limbo	10	in		Fair	REMOVE	One sided
15003	Bursera simaruba	Gumbo Limbo	18	in		Good	REMOVE	
15004	Conocarpus erectus	Green Buttonwood	6	in		Poor	REMOVE	Trunk damage
15005	Coccoloba uvifera	Seagrape	10	in		Good	REMAIN	
15006	Swietenia mahagoni	Mahogany	8	in		Good	RELOCATE	
15007	Swietenia mahagoni	Mahogany	20	in		Fair	REMAIN	Dieback
15008	Swietenia mahagoni	Mahogany	13	in		Fair	REMOVE	Large trunk wound
15009	Swietenia mahagoni	Mahogany	19	in		Fair	REMOVE	Trunk damage
15010	Coccoloba uvifera	Seagrape	12	in		Poor	REMOVE	
15011	Thrinax radiata	Thatch Palm	5	in		Good	RELOCATE	
15012	Swietenia mahagoni	Mahogany	22	in		Poor	REMOVE	Large wound cavity, poor structure, dieback
15013	Swietenia mahagoni	Mahogany	10	in		Poor	REMOVE	Large wound cavity, poor structure, dieback
15014	Swietenia mahagoni	Mahogany	16	in		Poor	REMOVE	Large wound cavity, poor structure, dieback
15015	Swietenia mahagoni	Mahogany	9	in		Poor	REMOVE	Large wound cavity, poor structure, dieback
15016	Sabal palmetto	Sabal Palm	19	in		Fair	REMOVE	Naturalized
15017	Sabal palmetto	Sabal Palm	12	in		Fair	REMOVE	Naturalized
15018	Sabal palmetto	Sabal Palm	16	in		Fair	REMOVE	Naturalized
15019	Conocarpus erectus var. sericeus	Silver Buttonwood	4	in		Fair	REMOVE	
15020	Conocarpus erectus var. sericeus	Silver Buttonwood	4	in	Multi	Fair	REMOVE	
15021	Conocarpus erectus var. sericeus	Silver Buttonwood	4	in	Multi	Poor	REMOVE	
15022	Swietenia mahagoni	Mahogany	21	in		Good	RELOCATE	
15023	Swietenia mahagoni	Mahogany	17	in		Poor	REMOVE	In area of future Bulkhead Project
15024	Sabal palmetto	Sabal Palm	15	in		Good	REMOVE	In area of future Bulkhead Project | Naturalized
15025	Swietenia mahagoni	Mahogany	36	in		Fair	REMOVE	In area of future Bulkhead Project
15026	Swietenia mahagoni	Mahogany	43	in		Good	REMAIN	
15027	Coccoloba uvifera	Seagrape	10	in		Fair	REMAIN	Corrective pruning
15028	Coccoloba uvifera	Seagrape	11	in		Fair	REMAIN	Corrective pruning
15029	Lysiloma latisiliquum	Wild Tamarind	24	in		Poor	REMOVE	Poor strucuture
15030	Coccoloba uvifera	Seagrape	7	in		Poor	REMOVE	Poor strucuture
15031	Swietenia mahagoni	Mahogany	24	in		Good	REMAIN	
15032	Lysiloma latisiliquum	Wild Tamarind	46	in		Good	REMAIN	
15033	Swietenia mahagoni	Mahogany	27	in		Good	REMOVE	Trunk damage, dieback
15034	Swietenia mahagoni	Mahogany	17	in		Good	REMAIN	
15035	Conocarpus erectus	Buttonwood	7	in		Good	REMAIN	
15036	Conocarpus erectus	Buttonwood	8	in		Good	REMAIN	
15037	Conocarpus erectus	Buttonwood	4	in		Good	REMAIN	
15038	Conocarpus erectus	Green Buttonwood	13	in		Poor	REMOVE	Trunk damage
15039	Conocarpus erectus	Green Buttonwood	10	in		Poor	REMOVE	Trunk damage
15040	Sabal palmetto	Sabal Palm	8	in		Good	RELOCATE	
15041	Sabal palmetto	Sabal Palm	9	in		Good	RELOCATE	

ON-SITE TREE INVENTORY & DISPOSITION SCHEDULE

Tree No.	Scientific Name	Common Name	DBH		Trunks	Condition	Action	Notes
15042	Sabal palmetto	Sabal Palm	8	in		Good	RELOCATE	
15043	Sabal palmetto	Sabal Palm	8	in		Good	RELOCATE	
15046	Conocarpus erectus var. sericeus	Silver Buttonwood	6	in		Fair	REMOVE	
15047	Conocarpus erectus var. sericeus	Silver Buttonwood	6	in		Fair	REMOVE	
15048	Conocarpus erectus var. sericeus	Silver Buttonwood	6	in		Fair	REMOVE	
15049	Conocarpus erectus var. sericeus	Silver Buttonwood	6	in		Fair	REMOVE	
15050	Thrinax radiata	Thatch Palm	5	in		Good	RELOCATE	
15051	Thrinax radiata	Thatch Palm	5	in		Good	RELOCATE	
15052	Thrinax radiata	Thatch Palm	5	in		Good	RELOCATE	
15053	Guaiacum sanctum	Lignum vitae	8	in		Good	REMAIN	Leaning
15054	Thrinax radiata	Florida thatch palm	4	in		Good	RELOCATE	
15055	Sabal palmetto	Sabal Palm	8	in		Fair	REMOVE	
15056	Lysiloma latisiliquum	Wild Tamarind	30	in		Good	REMAIN	
15057	Swietenia mahagoni	Mahogany	13	in		Good	RELOCATE	Surface roots
15058	Lysiloma latisiliquum	Wild Tamarind	18	in		Poor	REMOVE	Decay
15059	Sabal palmetto	Sabal Palm	5	in	2	Good	RELOCATE	15060
15060	Sabal palmetto	Sabal Palm	6	in	2	Good	RELOCATE	15059
15061	Sabal palmetto	Sabal Palm	7	in		Good	RELOCATE	
15062	Sabal palmetto	Sabal Palm	10	in		Good	RELOCATE	
15063	Thrinax radiata	Florida thatch palm	5	in	Multi	Good	RELOCATE	
15064	Thrinax radiata	Florida thatch palm	5	in	Multi	Good	RELOCATE	
15065	Thrinax radiata	Florida thatch palm	4	in	Multi	Good	RELOCATE	
15066	Ficus aurea	Strangler Fig	40	in		Good	REMAIN	Partially growing on boulder
15066-A	Guaiacum sanctum	Lignum vitae	3	in	Multi	Good	RELOCATE	
15067	Lysiloma latisiliquum	Wild Tamarind	21	in		Poor	REMOVE	Internal decay, dieback, surface roots damage, fungal body, cavity at base,
15068	Lysiloma latisiliquum	Wild Tamarind	24	in		Good	REMAIN	Corrective pruning
15069	Sabal palmetto	Sabal Palm	8	in		Good	REMAIN	
15070	Sideroxylon salicifolium	Willow Bustic	5	in		Good	REMAIN	
15071	Sideroxylon salicifolium	Willow Bustic	4	in		Good	REMAIN	
15072	Coccoloba diversifolia	Pigeon Plum	5	in		Good	REMAIN	
15073	Conocarpus erectus	Green Buttonwood	24	in		Good	REMAIN	Leaning away from building, corrective pruning
15074	Conocarpus erectus var. sericeus	Silver Buttonwood	9	in		Good	REMAIN	Leaning away from building
15075	Coccoloba uvifera	Seagrape	13	in		Poor	REMOVE	Trunk damage, corrective pruning
15076	Coccoloba uvifera	Seagrape	8	in		Poor	REMOVE	Trunk damage
15077	Swietenia mahagoni	Mahogany	19	in		Poor	REMOVE	Significant dieback, salt water stress
15078	Coccoloba uvifera	Seagrape	8	in	Multi	Good	RELOCATE	
15081	Conocarpus erectus	Green Buttonwood	6	in		Good	REMAIN	
15082	Conocarpus erectus	Green Buttonwood	5	in		Good	REMAIN	
15083	Conocarpus erectus	Green Buttonwood	8	in		Good	REMAIN	
15084	Conocarpus erectus	Green Buttonwood	4	in		Good	REMAIN	
15085	Conocarpus erectus	Green Buttonwood	4	in		Good	REMAIN	
15092	Swietenia mahagoni	Mahogany	24	in		Good	REMAIN	
15093	Swietenia mahagoni	Mahogany	59	in		Good	REMAIN	
15102	Swietenia mahagoni	Mahogany	42	in		Good	REMAIN	
15103	Swietenia mahagoni	Mahogany	17	in		Fair	REMAIN	Trunk damage
15104	Swietenia mahagoni	Mahogany	14	in		Good	REMOVE	
15105	Swietenia mahagoni	Mahogany	4	in		Fair	REMOVE	
15106	Conocarpus erectus var. sericeus	Silver Buttonwood	4	in		Fair	REMOVE	
15107	Conocarpus erectus var. sericeus	Silver Buttonwood	4	in		Fair	REMOVE	
15108	Lysiloma latisiliquum	Wild Tamarind	15	in		Good	RELOCATE	
15109	Swietenia mahagoni	Mahogany	7	in		Fair	REMOVE	
15110	Swietenia mahagoni	Mahogany	6	in		Fair	REMAIN	
15111	Swietenia mahagoni	Mahogany	6	in		Fair	REMOVE	One-side
15112	Conocarpus erectus var. sericeus	Silver Buttonwood	5	in		Poor	REMOVE	
15113	Swietenia mahagoni	Mahogany	13	in		Good	RELOCATE	
15114	Coccoloba uvifera	Seagrape	12	in		Fair	REMOVE	Poor structure
15115	Conocarpus erectus	Buttonwood	8	in	Multi	Fair	REMOVE	
15116	Conocarpus erectus	Green Buttonwood	8	in	Multi	Fair	REMOVE	
15117	Swietenia mahagoni	Mahogany	13	in		Poor	REMOVE	Poor structure and trunk damage
15118	Lysiloma latisiliquum	Wild Tamarind	15	in		Good	REMOVE	
15119	Coccoloba uvifera	Seagrape	9	in		Fair	REMOVE	Trunk damage
15120	Coccoloba uvifera	Seagrape	12	in		Poor	REMOVE	Poor structure and trunk damage
15121	Coccoloba uvifera	Seagrape	8	in		Poor	REMOVE	Poor structure and trunk damage
15122	Coccoloba uvifera	Seagrape	10	in		Good	REMAIN	
15123	Conocarpus erectus	Green Buttonwood	7	in		Good	REMAIN	
15126	Conocarpus erectus	Green Buttonwood	7	in	Multi	Good	REMAIN	
15127	Conocarpus erectus	Green Buttonwood	7	in	Multi	Good	REMAIN	
15128	Conocarpus erectus	Green Buttonwood	8	in	Multi	Good	REMAIN	
15129	Conocarpus erectus	Green Buttonwood	7	in	Multi	Good	REMAIN	
15130	Conocarpus erectus	Green Buttonwood	5	in	Multi	Good	REMAIN	
15131	Conocarpus erectus	Green Buttonwood	6	in	Multi	Good	REMAIN	
15132	Conocarpus erectus	Green Buttonwood	5	in	Multi	Good	REMAIN	
15133	Conocarpus erectus	Green Buttonwood	5	in	Multi	Good	REMAIN	
15134	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	Multi-trunk Character
15135	Coccoloba uvifera	Seagrape	5	in		Good	REMAIN	Multi-trunk Character
15136	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	Multi-trunk Character
15137	Swietenia mahagoni	Mahogany	13	in		Poor	REMOVE	Some dieback, poor condition
15138	Swietenia mahagoni	Mahogany	15	in		Good	REMAIN	Some pruning
15139	Conocarpus erectus	Green Buttonwood	12	in		Good	REMAIN	
15140	Conocarpus erectus	Green Buttonwood	5	in		Good	REMAIN	
15141	Ficus aurea	Strangler Fig	12	in		Fair	REMAIN	Sparse
15142	Coccoloba uvifera	Seagrape	6	in		Good	REMAIN	Character
15143	Coccoloba uvifera	Seagrape	4	in		Good	REMAIN	Character
15144	Ficus aurea	Strangler Fig	5	in		Good	REMAIN	
15145	Piscidia piscipula	Jamaica Dogwood	8	in		Good	REMAIN	
15146	Swietenia mahagoni	Mahogany	10	in		Good	REMAIN	Small
15147	Coccoloba uvifera	Seagrape	12	in		Good	REMAIN	
15150	Lysiloma latisiliquum	Wild Tamarind	13	in		Good	REMAIN	
15151	Conocarpus erectus	Green Buttonwood	17	in		Good	REMAIN	
15152	Bursera simaruba	Gumbo Limbo	7	in		Good	REMAIN	
15153	Lysiloma latisiliquum	Wild Tamarind	12	in		Good	REMAIN	
15154	Metopium toxiferum	Poisonwood	5	in		Good	REMAIN	
15155	Metopium toxiferum	Poisonwood	7	in		Good	REMAIN	

ON-SITE TREE INVENTORY & DISPOSITION SCHEDULE

Tree No.	Scientific Name	Common Name	DBH		Trunks	Condition	Action	Notes
15156	Piscidia piscipula	Jamaica Dogwood	7	in		Good	REMAIN	
15157	Bursera simaruba	Gumbo Limbo	7	in		Good	REMAIN	
15158	Swietenia mahagoni	Mahogany	7	in		Good	REMAIN	
15159	Coccoloba uvifera	Seagrape	5	in		Good	REMAIN	
15160	Coccoloba uvifera	Seagrape	8	in		Good	REMAIN	
15161	Coccoloba uvifera	Seagrape	7	in		Good	REMAIN	
15162	Coccoloba uvifera	Seagrape	7	in		Good	REMAIN	
15163	Ficus aurea	Strangler Fig	6	in		Good	REMAIN	
15165	Conocarpus erectus	Green Buttonwood	11	in		Good	REMAIN	Multi-trunk Character
15166	Cocos nucifera	Coconut Palm	12	in		Good	REMAIN	
15167	Piscidia piscipula	Jamaica Dogwood	6	in		Good	REMAIN	
15168	Conocarpus erectus	Green Buttonwood	5	in		Good	REMAIN	
15169	Lysiloma latisiliquum	Wild Tamarind	7	in		Good	REMAIN	
15170	Lysiloma latisiliquum	Wild Tamarind	6	in		Good	REMAIN	
15171	Lysiloma latisiliquum	Wild Tamarind	8	in		Good	REMAIN	
15172	Lysiloma latisiliquum	Wild Tamarind	22	in		Good	REMAIN	
15173	Lysiloma latisiliquum	Wild Tamarind	6	in		Good	REMAIN	
15174	Ficus aurea	Strangler Fig	10	in		Good	REMAIN	
15175	Lysiloma latisiliquum	Wild Tamarind	9	in		Good	REMAIN	
15176	Swietenia mahagoni	Mahogany	4	in		Good	REMAIN	
15177	Swietenia mahagoni	Mahogany	6	in		Good	REMAIN	
15178	Conocarpus erectus	Green Buttonwood	8	in		Good	REMAIN	
15179	Conocarpus erectus	Green Buttonwood	6	in		Good	REMAIN	
15180	Conocarpus erectus	Green Buttonwood	6	in		Good	REMAIN	
15181	Conocarpus erectus	Green Buttonwood	5	in		Good	REMAIN	
15182	Conocarpus erectus	Green Buttonwood	5	in		Good	REMAIN	
15183	Conocarpus erectus	Green Buttonwood	7	in		Good	REMAIN	
15184	Conocarpus erectus	Green Buttonwood	11	in		Good	REMAIN	
15194	Conocarpus erectus	Green Buttonwood	4	in		Good	REMAIN	

TOTAL TREES TO BE REMOVED: 62
TOTAL PALMS TO BE REMOVED: 05

100% CONSTRUCTION DOCUMENTS

PLANS ARE NOT COMPLETE WITHOUT WRITTEN SPECIFICATIONS

SYMBOL	REVISION	DATE
	Text	Date
1	REVISED	12/12/25

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PLANNING DEPT.

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
Rafael J. Ferrer, LA 6667366
12/23/2025

ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

JOHN PENNEKAMP

Sheet Title: TREE DISPOSITION LIST

Project Title: INTERPRETATIVE CENTER

Sheet Number: L106

CURTIS + ROGERS DESIGN STUDIO INC
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PLOTTED: 12/23/2025

12/23/2025

TREE RELOCATION NOTES

1.01 PERMITS AND CODES

A. The Contractor shall procure all necessary permits to accomplish all of the work.

B. The Contractor shall be responsible for performing all work in accordance with all applicable regulations, ordinances and code requirements from the appropriate city, county, state and/or federal jurisdiction the project is located in.

C. All Contractors shall be responsible for providing all labor and materials needed to completely and accurately perform the work outlined in these specifications. Equipment and materials furnished shall be of the appropriate type, size and quantity needed to adequately accomplish the specified work. 3

D. All Contractors shall be responsible for regularly inspecting all equipment to be used on the job site and for providing scheduled preventative maintenance, so as to prevent any damage or injury to landscaping, structures or the environment. 3

2.0 PREPARATION PRIOR TO TRANSPLANTING

A. Crown Pruning

1. Hardwood tree crowns shall be pruned to remove dead or damaged branches, and to raise or reduce them only as needed to facilitate handling, as directed by the Consulting Arborist. All pruning shall be performed following the latest revision of the American National Standards Institute A-300 pruning standards (ANSI A-300), with the following exceptions:
2. Palms shall have their lower fronds removed up to, but not any more than, the horizontal plane. All inflorescences and fruits shall be removed prior to relocation. Crowns shall be tied-up during the move to prevent damage.

B. Watering and Fertilization

1. Clear the root ball area of all foreign material, trash, etc. to expose undisturbed soil.
2. Trees shall be deep injection fertilized within 24 hours after crown pruning, a minimum of 8 days prior to root pruning. Fertilizer shall be "Micro Mix" liquid as produced by Lesco, Inc., to be diluted at a rate of 1 gallon per 100 gallons of water.
3. Inject into root zone within the limits of proposed rootball at the rate of 50 gallons fluid per 1,000 square feet of tree canopy, using only approved spray equipment.
4. Trees to be root pruned shall be watered two weeks prior to root severance. During this period, the soil moisture in the root zone shall be maintained at an optimum level for growth. This is interpreted to mean that two (2) to three (3) inches shall be applied to the root zone each week to achieve deep watering of the area.

C. Root Pruning

1. Beginning at least 8 to 12 weeks prior to tree relocation all hardwood trees to be relocated shall have their roots pruned.
2. Hardwood trees with trunk diameters (DBH) of 18 inches or greater shall have their roots pruned in two separate operations beginning with two opposite sides of the tree, followed by the other two opposite sides of the tree 8 to 12 weeks later. The trees can typically be moved 8 to 12 weeks after the second root pruning operation. Contractor shall verify this with the tree permit requirements.
3. Palms do not require root pruning prior to digging and moving. They can be pruned the same day as relocation.
4. Rootball sizes for hardwood trees shall be based upon ANSI A-300 Guidelines (8” diameter per 1” DBH), with some variations due to tree- and site-specific conditions.
5. Rootball sizes for Bismarck palms and dwarf sugar palms shall be 36 to 48 inches in diameter. Rootball sizes for latan palms, coconut palms, hurricane palms, and pygmy date palms shall be 24 to 36 inches in diameter. Rootball sizes for cabbage palms shall be 12 to 18 inches in diameter.
6. Rootball depth for all trees and palms to be relocated shall be at least 18 to 24 inches, greater if soil conditions permit.
7. There shall be some allowance for field adjustments in rootball sizes and depths depending on tree and site conditions, as directed by the Consulting Arborist.
8. Root pruning shall be performed using a stump-grinder or more refined equipment such that cuts are clean, smooth and thorough without cuts or tears in the bark, wood or cambium.
9. Following root pruning, the edges of the rootballs of hardwood trees and palms shall be backfilled with 70:30 landscape soil mix, then wrapped with burlap and secured with wire. The trenches shall also be backfilled with 70:30 landscape mix.
10. If cabbage palms and coconut palms are moved the same day they are root-pruned, the rootballs shall not require backfilling and wrapping.
11. Backfilling Trench:
12. All trenches are to be backfilled with planting soil consisting of a mixture 25 % allgrow compost (or approved equal) 60 % sand and 15 % muck. Trenches shall be flooded to remove air pockets. Fill entire trench.
13. Re-establish a 6" berm, 12" outside the root pruning trench using excavated soil.
14. Mulching: Spread Florimulch -shredded maleleuca mulch, 3" thick within the bermed area.
15. Watering After Root Pruning
16. Watering after root pruning shall be three times per week.
17. Watering shall be accomplished by a water truck, or by on-site water supply as required to provide sufficient quantity and pressure. It is the contractor's responsibility to pay for any fees for water use.
18. Watering shall continue until the root generation period is over.
19. Root Regeneration Period shall be 60 days, unless otherwise specified.

2.01 DIGGING AND MOVING

A. The trees and palms shall be dug manually or with the usage of a backhoe and lifted using cranes, loaders, backhoes or other equipment which is appropriate for the size and weight of the trees. They shall be carried directly to the site of relocation and installed.

B. The trees and palms shall be lifted using fiber rope tree slings or other appropriate materials. During lifting the trees and palms shall be balanced in an upright position with their rootballs intact. Tree trunks and branches shall be heavily padded with burlap beneath the braces or lifting straps such that damage to the bark, wood or cambium is prevented. If using a fiber rope lifting strap, it shall be double-wrapped around the burlap and fastened in such a manner as to prevent slippage and subsequent wood, bark or cambium damage.

C. The trees and palms shall not be “pinned” using steel dowels through their trunks or branches, unless otherwise directed by the Consulting Arborist.

D. The rootballs shall be cradled with lifting straps, cables, or within a loader bucket such that the bulk of the tree's weight rests on the rootball, not on the lifting straps attached to the trunks or branches.

E. Once lifting begins, any uncut roots which become apparent around or under the rootball shall be immediately severed with the appropriate pruning tools (saws, loppers, pruning clippers) so as to minimize tearing.

F. The trees and palms shall be set in pre-dug pits, which are slightly wider and approximately the same depth as the rootball. The trees shall be set at or slightly above (no more than 2 inches) final grade. The trees shall be backfilled using a 1:1 mixture of existing soil and 70:30 topsoil mix (70% coarse grade sand and 30% Everglades muck), thoroughly incorporated together. The trees shall be watered in during installation to prevent the formation of air pockets, which could cause settling.

G. Organic wood mulch shall be layered to a depth of 2 to 3 inches over the top and surrounding 6 to 8 inches of the rootballs. Mulch shall not be applied to, or allowed to accumulate directly against the tree trunks

2.02 BRACING AND STAKING

A. The trees and single-trunked palms shall be braced and staked, using a minimum per tree of 3 4”x 4” wooden stakes, attached to 2” x 4” wood battens, double-banded around the burlap-wrapped trunks and branches. Nails shall be driven into the wood battens, not into tree trunks or branches. Damage or injury to trunks or branches shall be avoided.

B. Stakes shall be properly anchored and remain in place for at least 6 to 8 months, or until the trees show adequate signs of healthy new growth

3.00 MAINTENANCE

A. IRRIGATION

1. Beginning at least two weeks prior to root pruning and continuing until the time of root pruning, the trees to be relocated shall be irrigated one time each two to three days using a high volume of water to thoroughly moisten the root zones.
2. Following root pruning and until the time of relocation, the trees to be relocated shall be watered daily at high volume.
3. For at least the first month after relocation, the relocated trees shall be irrigated daily at high volume. After that time, irrigation rates shall be reduced to three times per week, continuing at high rates, for at least three more months.
4. There shall be some allowance for field adjustments in irrigation rates and frequencies due to site, weather, or tree conditions, as directed by the Consulting Arborist.

3.01 FERTILIZATION

A. The trees to be relocated shall be fertilized by Contractor prior to root pruning using a chelated micronutrient mix, mixed at label rates, drenching at least 10 gallons of mixture around the root zone of each tree. Biostimulants and other supplements may also be used if approved by Consulting Arborist.

B. Approximately 6 weeks after relocation, following the trees' first flush of new growth, the contractor shall fertilize the trees at standard rates, as per tree size, using a granular “Palm Special” 8-2-12 product, broadcast on the soil surface beneath the canopy of each tree.

C. During the remainder of the project, the trees shall be fertilized with “Palm Special” 8-2-12 and a chelated micronutrient mix one time each three months, at the rates specified in 3.7 A and B, above.

3.01 CLEAN-UP & DEBRIS REMOVAL

A. Contractor shall be responsible for the timely clean-up and removal of all debris generated by the activities specified in this document. All debris shall be collected and properly disposed of at authorized dumping or recycling sites.

3.02 GUARANTEE

A. The trees shall be guaranteed for a period of eighteen (18) months.

B. If the trees are damaged or die during the relocation process they shall be mitigated at no cost to Owner. Contractor shall replace the dead/damaged tree with new trees as needed to satisfy the City of Coral Gables mitigation requirements found in the Tree Protection and Preservation Ordinance.

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REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

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Sheet Title: TREE DISPOSITION NOTES

Project Title: INTERPRETATIVE CENTER

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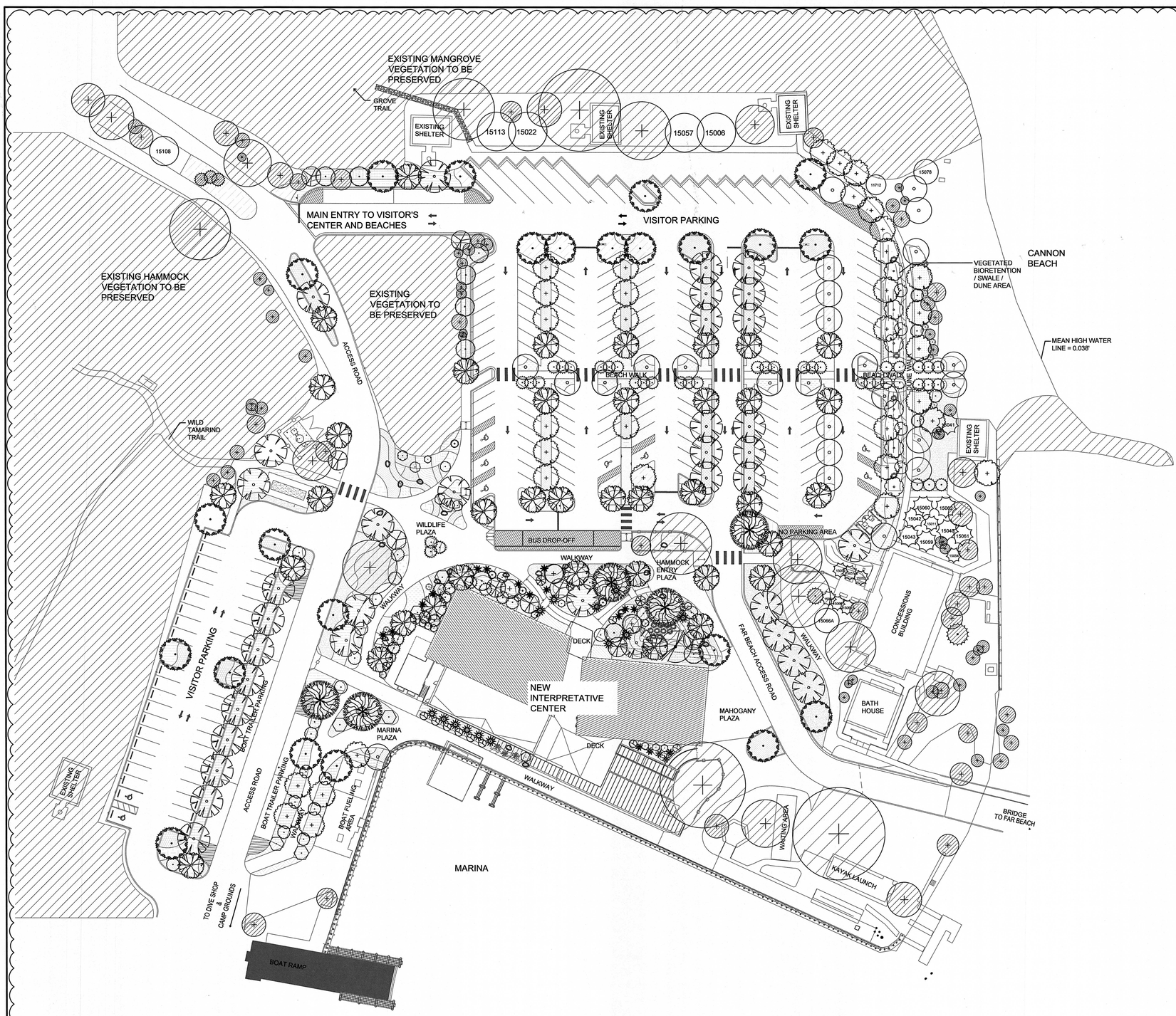

TREE SYMBOL LEGEND

SYMBOL	BOTANICAL / COMMON NAME
LARGE TREE	
	Avicennia germinans Black Mangrove
	Bursera simaruba Gumbo Limbo
	Chrysophyllum oliviforme Satinleaf
	Coccoloba diversifolia Pigeon Plum
	Coccoloba uvifera Seagrape
	Conocarpus erectus Green Buttonwood
	Ficus aurea Strangler Fig
	Ficus aurea Strangler Fig
	Lysiloma latisiliqua Wild Tamarind
	Piscidia piscipula Jamaica Dogwood
	Rhizophora mangle Red Mangrove
	Simarouba glauca Paradise Tree
	Swietenia mahagoni Mahogany
PALM TREES	
	Sabal palmetto Sabal Palm
	Sabal palmetto Sabal Palm
SMALL PALM TREE	
	Thrinax morrisii Key Thatch Palm
	Thrinax radiata Florida Thatch Palm
SMALL TREES/ACCENT SHRUBS	
	Ardisia escallonioides Marlberry
	Bourreria ovata Bahama Strongbark
	Canella winterana Cinnamon Bark
	Capparis cynophallophora Jamaica Caper
	Citharexylum fruticosum Fiddlewood
	Conocarpus erectus f. sericeus Silver Buttonwood
	Eugenia rhombea Red Stopper
	Guaiacum sanctum Lignum Vitae
	Myrcianthes fragrans Simpson's Stopper
	Tree/Palm to remain
##	Relocated Tree/Palm

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LANDSCAPE SITE PLAN
Scale 1" = 40'

0 20 40 80 120
SCALE IN FEET

NORTH

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RAFAEL J. FERRER
LA 6667366
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, 6667366

JOHN PENNEKAMP
Sheet Title: LANDSCAPE SITE PLAN
Project Title: INTERPRETATIVE CENTER

Sheet Number: L120

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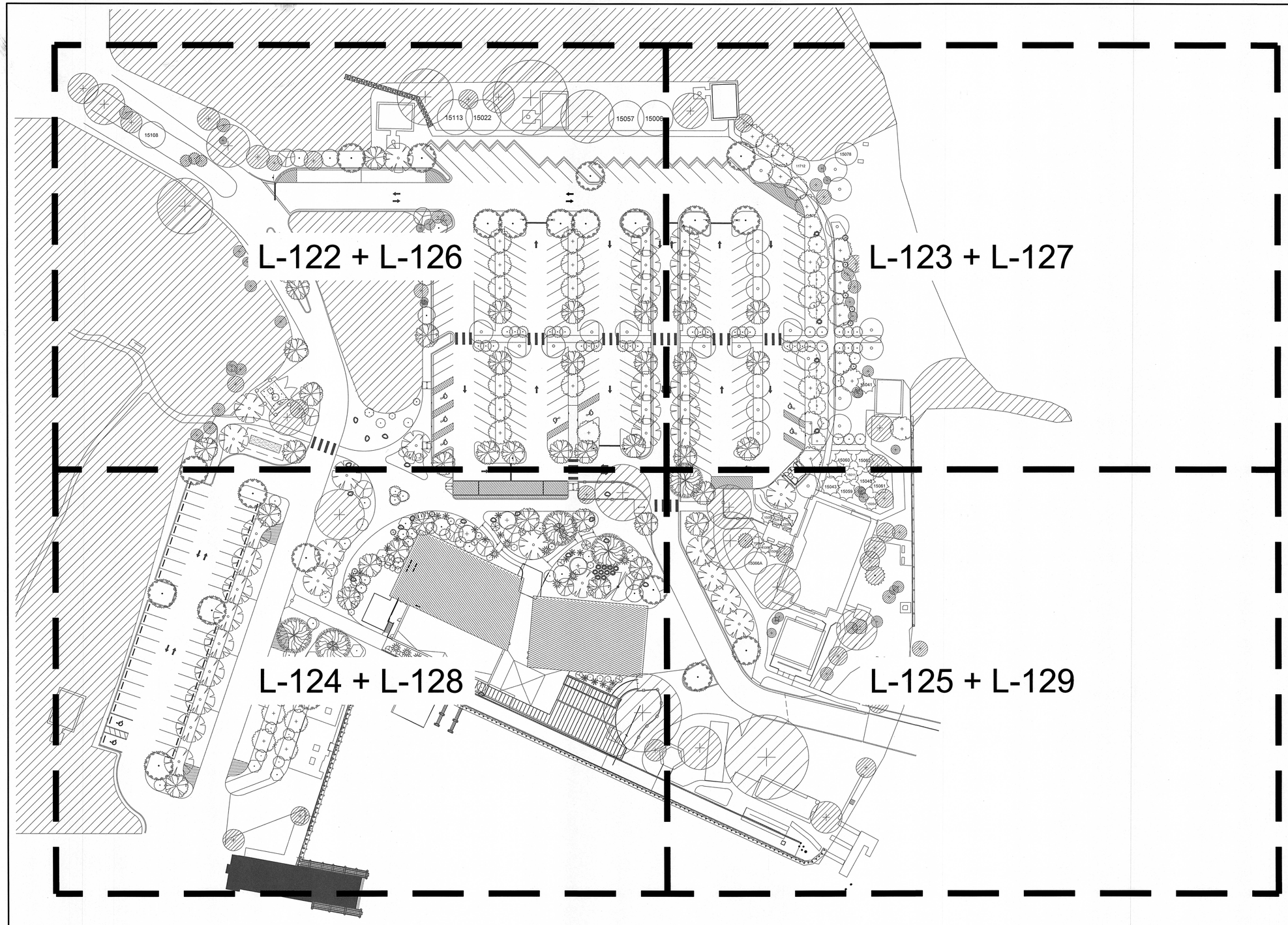

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LANDSCAPE LAYOUT PLAN
Scale 1" = 40'

0 20 40 80 120
SCALE IN FEET

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LA 6667366
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Rafael J. Ferrer, LA 6667366

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Sheet Title: JOHN PENNEKAMP
LANDSCAPE LAYOUT PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L121

PLOTTED: 12/23/2025

12/23/2025

EXISTING MANGROVE VEGETATION TO BE PRESERVED

GROVE TRAIL

EXISTING SHELTER

EXISTING SHELTER

15108 15113 15022 15057 15006

MAIN ENTRY TO VISITOR'S CENTER AND BEACHES

VISITOR PARKING

EXISTING HAMMOCK VEGETATION TO BE PRESERVED

EXISTING VEGETATION TO BE PRESERVED

ACCESS ROAD

WILD TAMARIND TRAIL

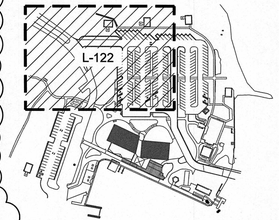
PROP. BOULDER

BEACH WALK

MATCHLINE L-123

MATCHLINE L-124

1



KEYMAP

L122 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
LARGE TREE	
	Bursera simaruba Gumbo Limbo
	Chrysophyllum oliviforme Satinleaf
	Coccoloba diversifolia Pigeon Plum
	Coccoloba uvifera Seagrape
	Conocarpus erectus Green Buttonwood
	Lysiloma latisiliqua Wild Tamarind
	Swietenia mahagoni Mahogany
PALM TREES	
	Sabal palmetto Sabal Palm
SMALL TREES/ACCENT SHRUBS	
	Ardisia escallonioides Marlberry
	Bourreria ovata Bahama Strongbark
	Capparis cynophallophora Jamaica Caper
	Citharexylum fruticosum Fiddlewood
	Guaiacum sanctum Lignum Vitae
	Tree/Palm to remain
##	Relocated Tree/Palm
	Proposed Boulder

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ENLARGEMENT LANDSCAPE PLAN
TREES & PALMS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

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REVIEWED BY: RJF
Consultant:

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Sheet Title: ENLARGED LANDSCAPE PLAN - TREES & PALMS

Project Title: INTERPRETATIVE CENTER

Sheet Number: L122

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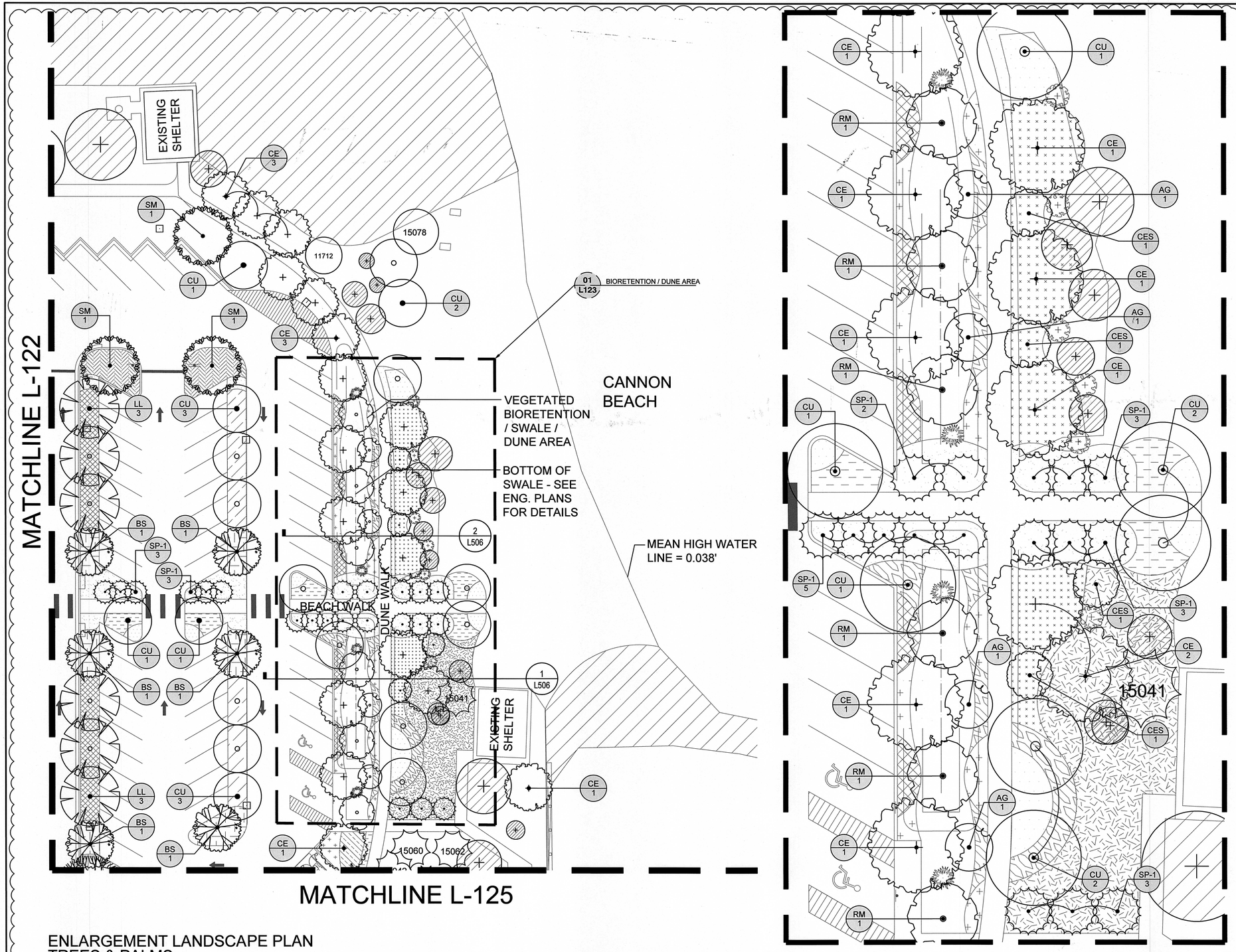

ENLARGEMENT LANDSCAPE PLAN
TREES & PALMS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

01 ENLARGEMENT BIORETENTION / DUNE AREA
SHRUBS & GROUNDCOVERS
Scale 1" = 10'

0 5 10 20 30
SCALE IN FEET

NORTH

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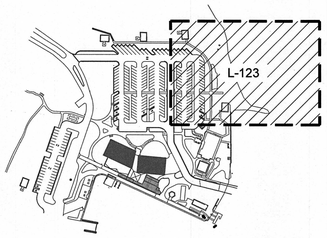

KEYMAP

L123 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
LARGE TREE	
	Avicennia germinans Black Mangrove
	Bursera simaruba Gumbo Limbo
	Coccoloba uvifera Seagrape
	Conocarpus erectus Green Buttonwood
	Lysiloma latisiliqua Wild Tamarind
	Rhizophora mangle Red Mangrove
	Swietenia mahagoni Mahogany
PALM TREES	
	Sabal palmetto Sabal Palm
SMALL TREES/ACCENT SHRUBS	
	Conocarpus erectus f. sericeus Silver Buttonwood
	Tree/Palm to remain
## ##	Relocated Tree/Palm

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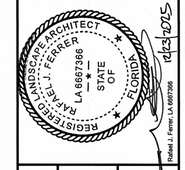

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Sheet Title: ENLARGED LANDSCAPE PLAN - TREES & PALMS

Project Title: INTERPRETATIVE CENTER

Sheet Number: L123

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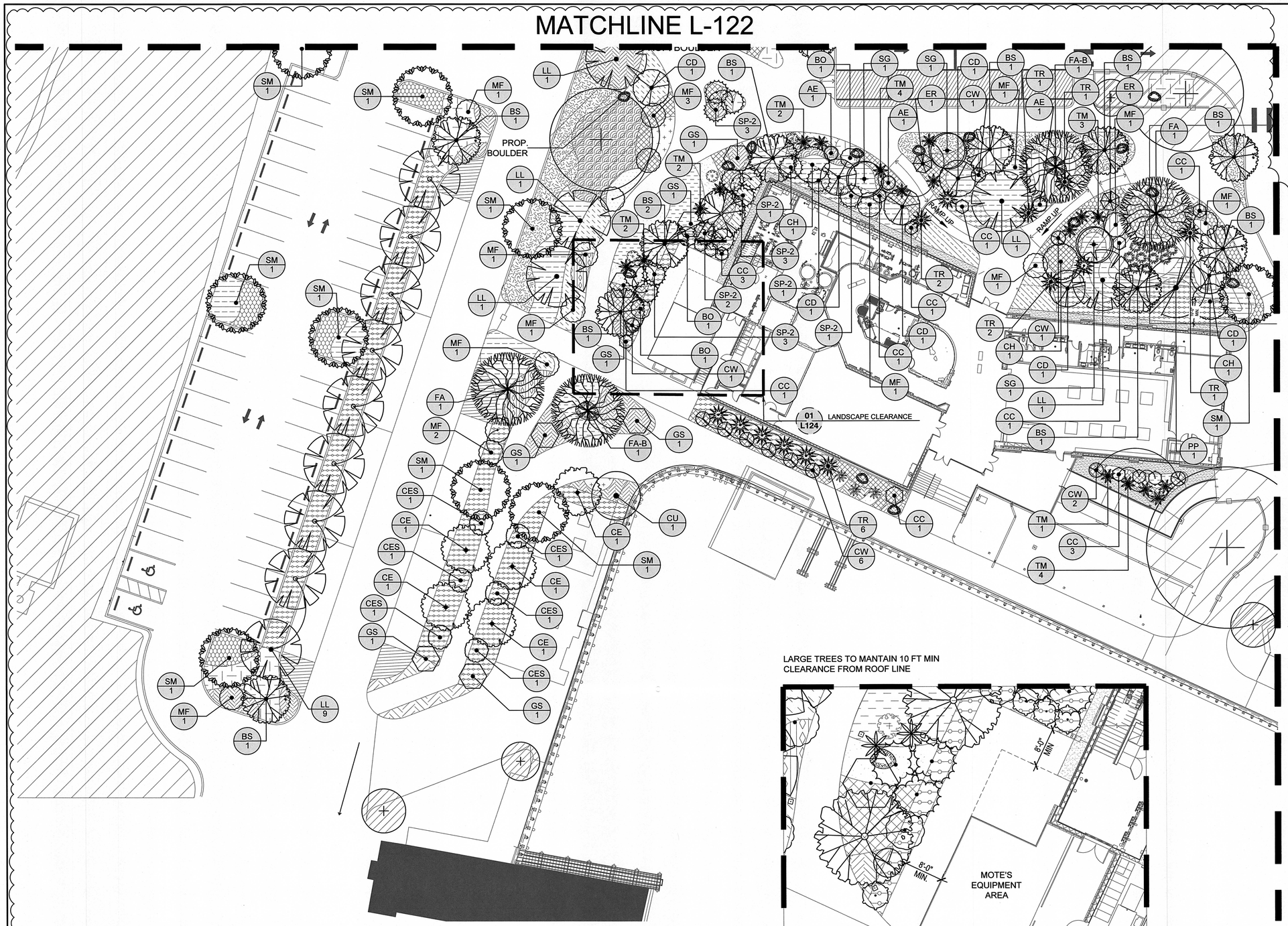

ENLARGEMENT LANDSCAPE PLAN
TREES & PALMS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET
NORTH

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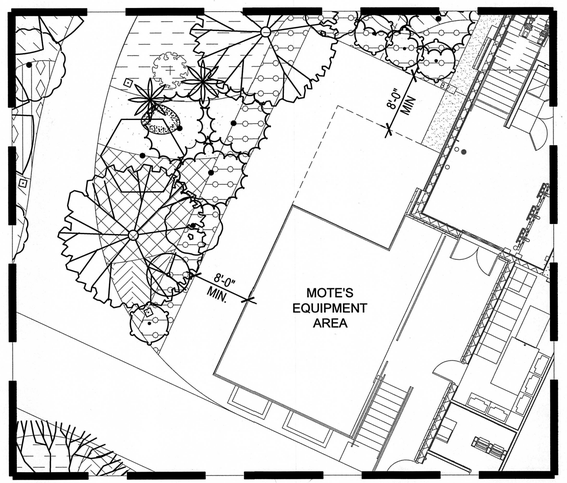
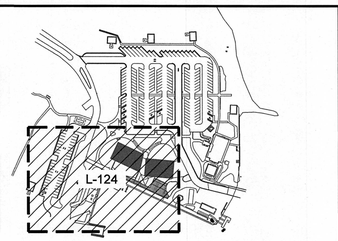
LARGE TREES TO MANTAIN 10 FT MIN CLEARANCE FROM ROOF LINE



01 ENLARGEMENT LANDSCAPE CLEARANCE
SHRUBS & GROUNDCOVERS
Scale 1" = 10'

0 5 10 20 30
SCALE IN FEET
NORTH



KEYMAP

L124 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
LARGE TREE	
	Bursera simaruba Gumbo Limbo
	Chrysophyllum oliviforme Satinleaf
	Coccoloba diversifolia Pigeon Plum
	Coccoloba uvifera Seagrape
	Conocarpus erectus Green Buttonwood
	Ficus aurea Strangler Fig
	Ficus aurea Strangler Fig
	Lysiloma latisiliqua Wild Tamarind
	Piscidia piscipula Jamaica Dogwood
	Simarouba glauca Paradise Tree
	Swietenia mahagoni Mahogany
PALM TREES	
	Sabal palmetto Sabal Palm
SMALL PALM TREE	
	Thrinax morrisii Key Thatch Palm
	Thrinax radiata Florida Thatch Palm
SMALL TREES/ACCENT SHRUBS	
	Ardisia escallonioides Marlberry
	Bourreria ovata Bahama Strongbark
	Canella winterana Cinnamon Bark
	Capparis cynophallophora Jamaica Caper
	Conocarpus erectus f. sericeus Silver Buttonwood
	Eugenia rhombea Red Stopper
	Guaiacum sanctum Lignum Vitae
	Myrcianthes fragrans Simpson's Stopper
	Tree/Palm to remain
	Relocated Tree/Palm
	Proposed Boulder
	Crushed Shell Gravel

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LA 6667366
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Project Title: INTERPRETATIVE CENTER

Sheet Number: L124

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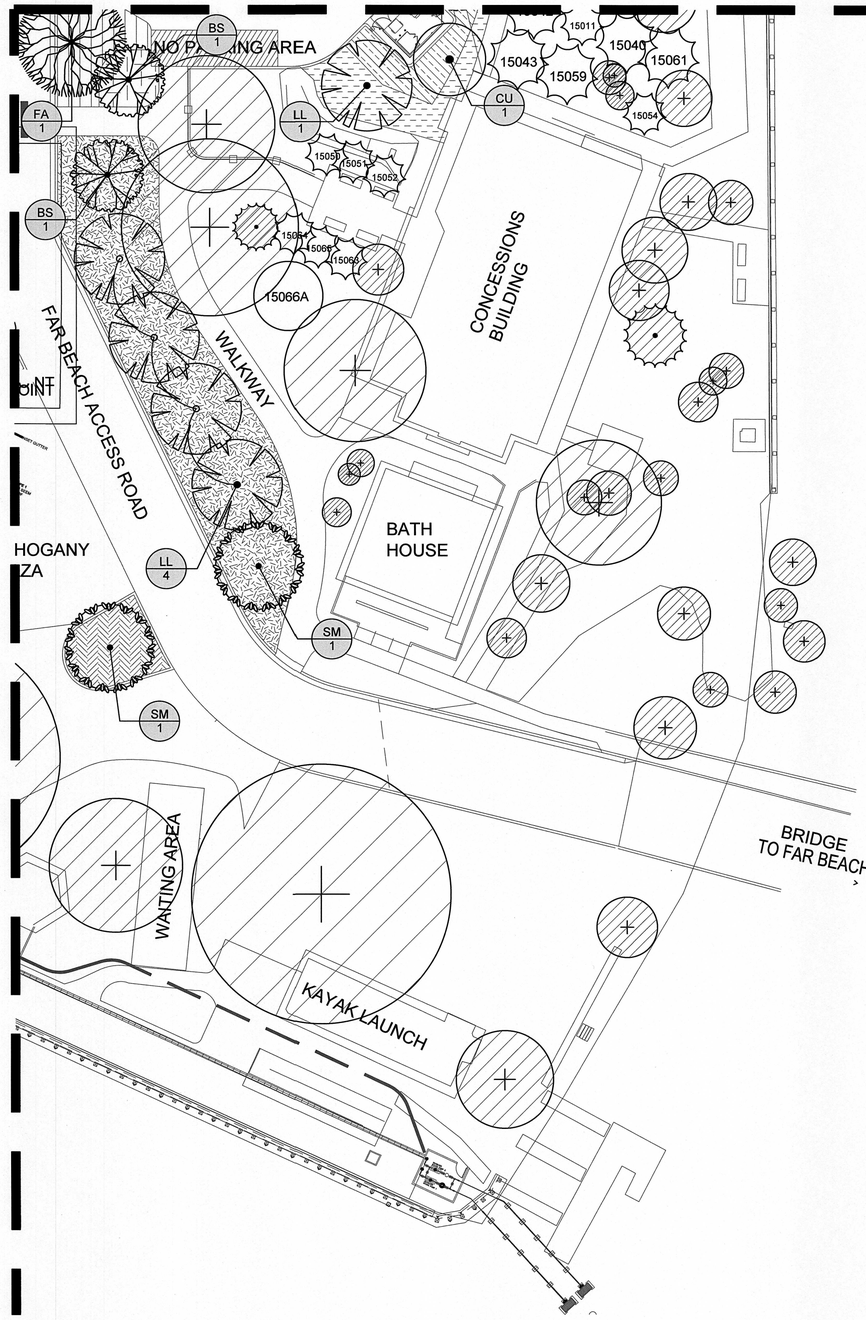

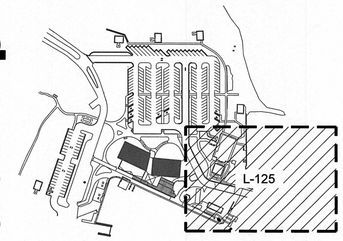

KEYMAP

L125 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
LARGE TREE	
	Bursera simaruba Gumbo Limbo
	Coccoloba uvifera Seagrape
	Ficus aurea Strangler Fig
	Lysiloma latisiliqua Wild Tamarind
	Swietenia mahagoni Mahogany
	Tree/Palm to remain
##	Relocated Tree/Palm

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TREES & PALMS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

1

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12/23/2025
Rafael J. Ferrer, LA 6667366

Sheet Title: ENLARGED LANDSCAPE PLAN - TREES & PALMS
Project Title: INTERPRETATIVE CENTER
JOHN PENNEKAMP

Sheet Number: L125

PLOTTED: 12/23/2025

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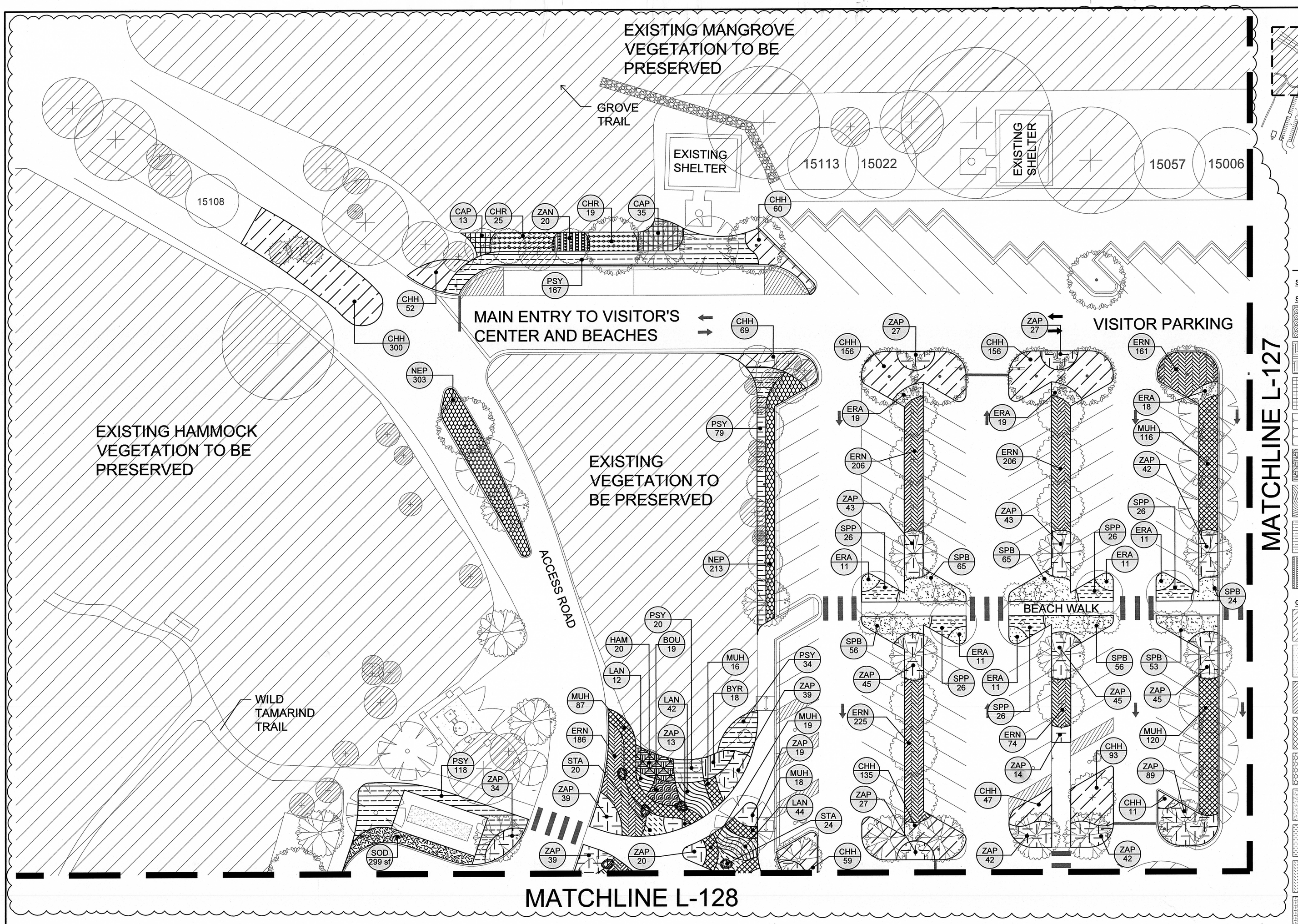

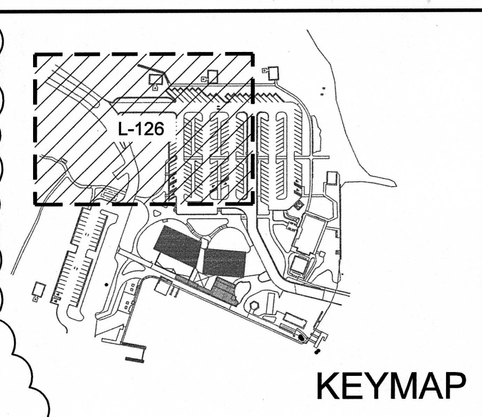

KEYMAP

L126 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
SHRUB AREAS	
	Bourreria cassinifolia Little Strongbark
	Byrsonima lucida Locustberry
	Capparis cynophallophora Jamaica Caper
	Chrysobalanus icaco 'Red Tip' Red Tip Cocoplum
	Hamelia patens Firebush
	Lantana involucrata Wild Sage
	Psychotria nervosa Shinyleaf Wild Coffee
	Zanthoxylum fagara Wild Lime
GROUND COVERS	
	Chrysobalanus icaco 'Horizontalis' Horizontal Cocoplum
	Eragrostis elliottii Elliot's Lovegrass
	Ernodea littoralis Golden Creeper
	Muhlenbergia capillaris Pink Muhly Grass
	Nephrolepis exaltata Boston Fern
	Spartina bakeri Sand Cordgrass
	Spartina patens Saltmeadow Cordgrass
	Stachytarpheta jamaicensis Blue Porterweed
	Zamia pumila Coontie
SOD	
	Paspalum vaginatum Seashore Paspalum

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ENLARGEMENT LANDSCAPE PLAN
SHRUBS & GROUNDCOVERS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

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REVIEWED BY: RJF
Consultant:

Architecture, Engineering, Interior Design, Facility Asset Management

REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

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JOHN PENNEKAMP

Sheet Title: ENLARGED LANDSCAPE PLAN - SHRUBS & GROUNDCOVERS

Project Title: INTERPRETATIVE CENTER

Sheet Number: L126

PLOTTED: 12/23/2025

12/23/2025

MATCHLINE L-126

EXISTING SHELTER

15078

11712

ERN 155

ERN 175

ERA 13

ERA 12

MUH 121

CHH 121

ZAP 42

ZAP 42

SPB 62

SPB 62

SPB 18

SPB 18

ERA 11

ERA 11

SPP 26

SPP 26

ZAP 42

ZAP 42

MUH 126

CHH 114

ZAP 73

ZAP 30

01 L127 BIORETENTION / DUNE AREA

CANNON BEACH

VEGETATED BIORETENTION / SWALE / DUNE AREA

BOTTOM OF SWALE - SEE ENG. PLANS FOR DETAILS

2 L506

MEAN HIGH WATER LINE = 0.038'

BEACH WALK

DUNE WALK

1 L506

EXISTING SHELTER

BOR 47

15060

15062

MATCHLINE L-129

ENLARGEMENT LANDSCAPE PLAN
SHRUBS & GROUNDCOVERS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

ACR 1

BOR 21

MUH 16

SES 22

BOR 22

BOR 29

MUH 16

SES 22

BOR 22

BOR 32

MUH 18

SPP 24

ACR 1

ERA 9

SPB 54

ERA 48

SUR 1

UNI 235

SUR 1

SUR 1

SUR 1

SUR 1

SPB 64

SPP 25

ERA 12

SPB 81

SES 30

ACR 1

SES 15

BOR 29

MUH 16

SES 22

BOR 22

MUH 16

BOR 29

BOR 14

SES 21

ACR 1

BOR 15

ERA 12

SPP 26

SPB 62

SUR 1

UNI 94

ERA 39

SOD 1,758 sf

SES 91

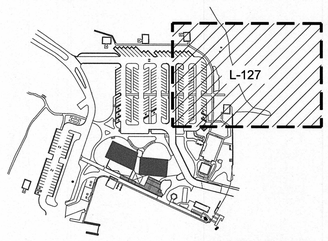
15041

01 ENLARGEMENT BIORETENTION / DUNE AREA
SHRUBS & GROUNDCOVERS
Scale 1" = 10'

0 5 10 20 30
SCALE IN FEET

NORTH

PLANS ARE NOT COMPLETE WITHOUT WRITTEN SPECIFICATIONS



KEYMAP

L127 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
ACCENTS	
	Acrostichum danaeifolium Leather Fern
	Suriana maritima Bay Cedar
GROUND COVERS	
	Borrichia arborescens Sea Ox-Eye Daisy
	Chrysobalanus icaco 'Horizontalis' Horizontal Cocoplum
	Eragrostis elliottii Elliot's Lovegrass
	Ernodea littoralis Golden Creeper
	Muhlenbergia capillaris Pink Muhly Grass
	Sesuvium portulacastrum Sea Purslane
	Spartina bakeri Sand Cordgrass
	Spartina patens Saltmeadow Cordgrass
	Uniola paniculata Sea Oats
	Zamia pumila Coontie
SOD	
	Paspalum vaginatum Seashore Paspalum

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SYMBOL | REVISION | DATE
1 | REI REV 1 | 12/17/25

ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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Key West, Florida
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LANDSCAPE ARCHITECT
RAFAEL J. FERRER
LA 6667366
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

JOHN PENNEKAMP

Sheet Title: ENLARGED LANDSCAPE PLAN - SHRUBS & GROUNDCOVERS

Project Title: INTERPRETATIVE CENTER

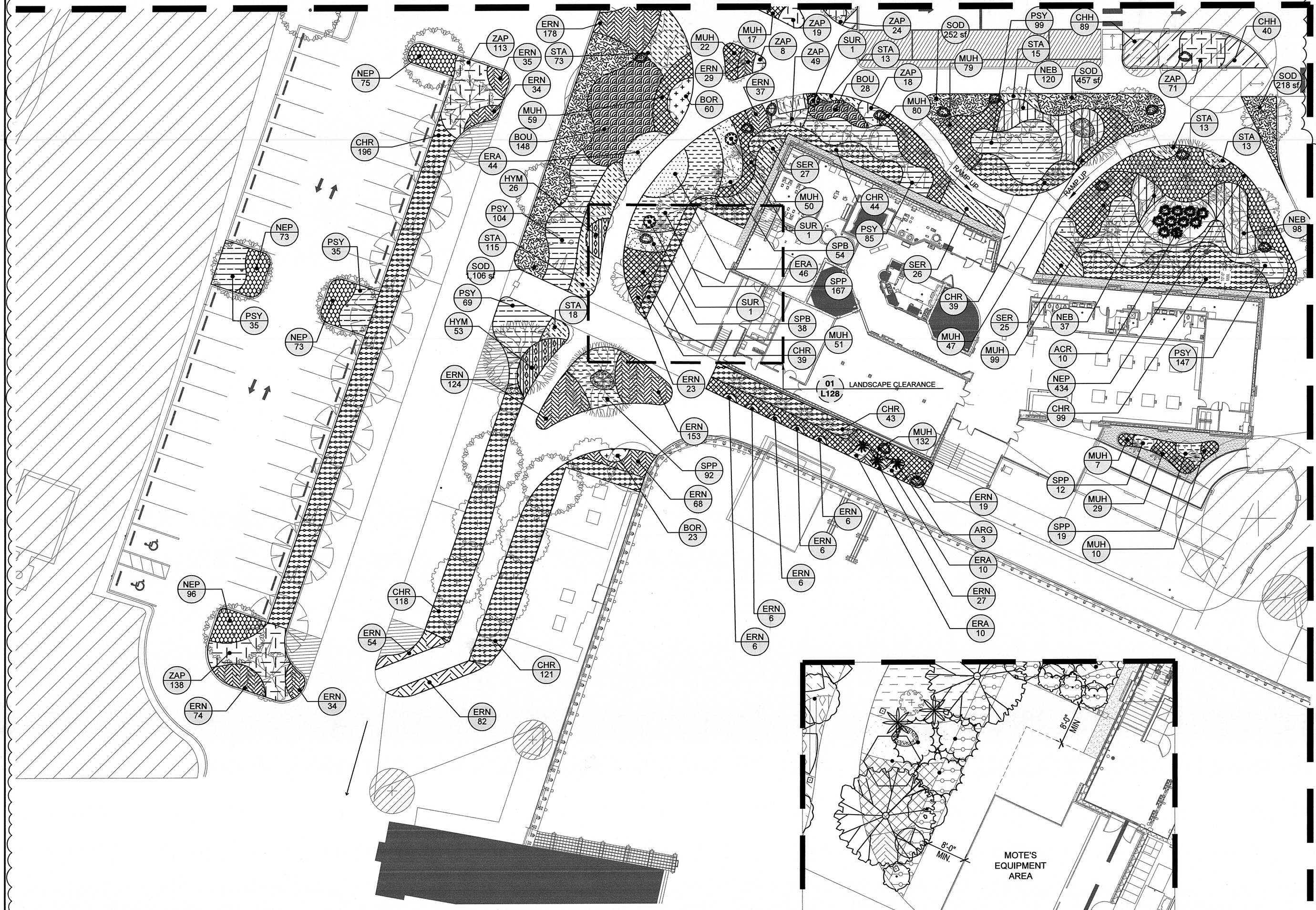
Sheet Number: L127

PLOTTED: 12/23/2025

12/23/2025

MATCHLINE L-126

MATCHLINE L-129



L128 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
ACCENTS	
	Acrostichum danaeifolium Leather Fern
	Argusia gnaphalodes Sea Lavander
	Suriana maritima Bay Cedar
SHRUB AREAS	
	Bourreria cassinifolia Little Strongbark
	Chrysobalanus icaco 'Red Tip' Red Tip Cocoplum
	Nephrolepis biserrata Giant Sword Fern
	Psychotria nervosa Shinyleaf Wild Coffee
	Serenoa repens Saw Palmetto
GROUND COVERS	
	Borrichia arborescens Sea Ox-Eye Daisy
	Chrysobalanus icaco 'Horizontalis' Horizontal Cocoplum
	Eragrostis elliottii Elliot's Lovegrass
	Ernodea littoralis Golden Creeper
	Hymenocallis latifolia Spider Lily
	Muhlenbergia capillaris Pink Muhly Grass
	Nephrolepis exaltata Boston Fern
	Spartina bakeri Sand Cordgrass
	Spartina patens Saltmeadow Cordgrass
	Stachytarpheta jamaicensis Blue Porterweed
	Zamia pumila Coontie
SOD	
	Paspalum vaginatum Seashore Paspalum
SOFTSCAPE	
	Crushed Shell Gravel

ENLARGEMENT LANDSCAPE PLAN
TREES & PALMS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

01 ENLARGEMENT LANDSCAPE CLEARANCE
SHRUBS & GROUNDCOVERS
Scale 1" = 10'

0 5 10 20 30
SCALE IN FEET

NORTH

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Division of Recreation and Parks
Bureau of Design and Construction
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SYMBOL	REVISION	DATE
	REF REV 1	12/23/25

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DRAWN BY: CO
REVIEWED BY: RJF
ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

Consultant:
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Key West, Florida
Miami, Florida
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LANDSCAPE ARCHITECT
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LA #6667386
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA #6667386

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JOHN PENNEKAMP

Sheet Title: ENLARGED LANDSCAPE PLAN - SHRUBS & GROUNDCOVERS

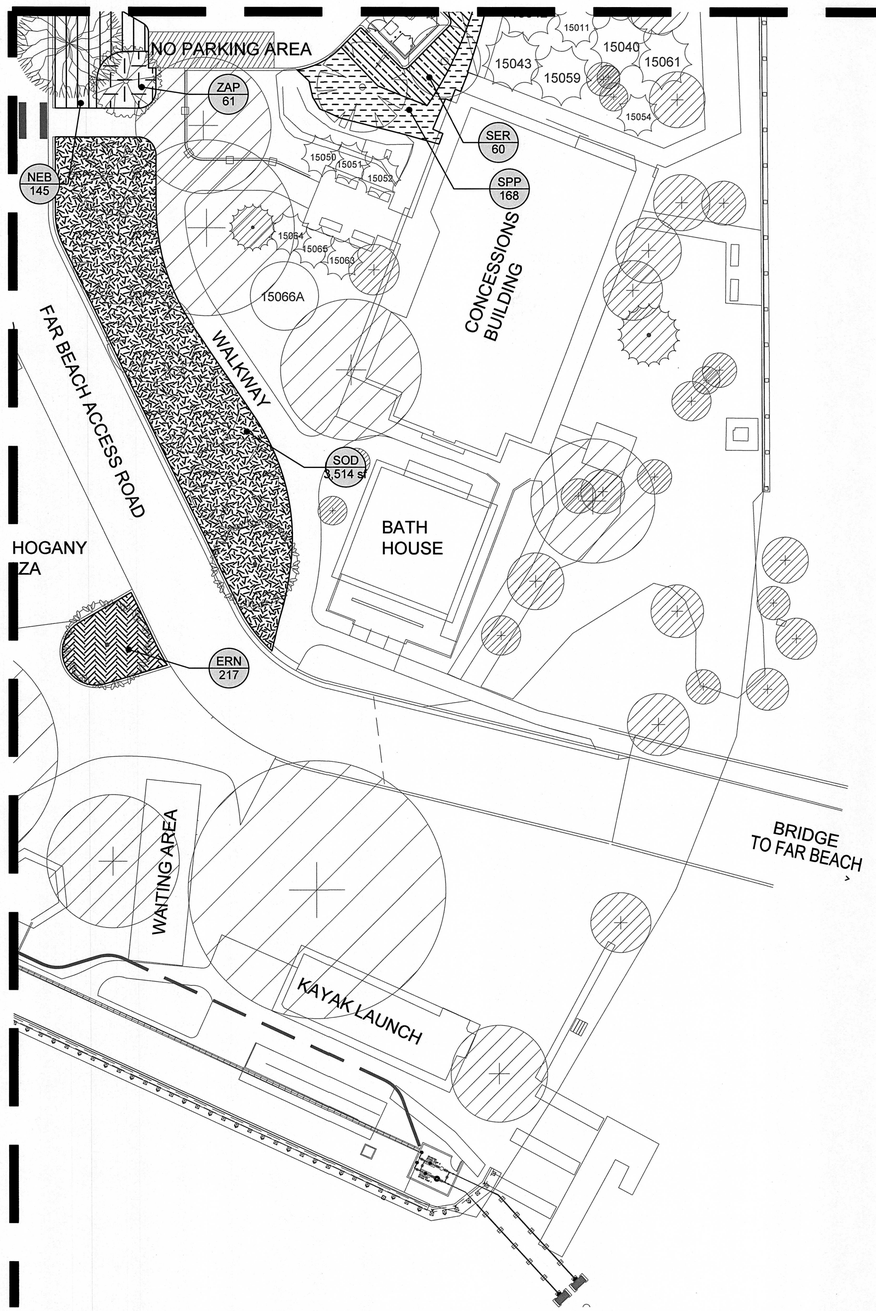
Project Title: INTERPRETATIVE CENTER

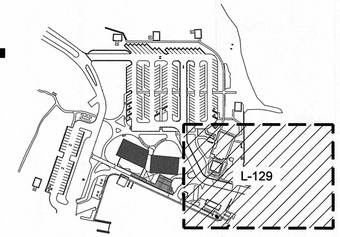
Sheet Number: L128

PLOTTED: 12/23/2025

12/23/2025

MATCHLINE L-127





KEYMAP

L129 - LEGEND

SYMBOL	BOTANICAL / COMMON NAME
SHRUB AREAS	
	Nephrolepis biserrata Giant Sword Fern
	Serenoa repens Saw Palmetto
GROUND COVERS	
	Ernodea littoralis Golden Creeper
	Spartina patens Saltmeadow Cordgrass
	Zamia pumila Coontie
SOD	
	Paspalum vaginatum Seashore Paspalum

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ENLARGEMENT LANDSCAPE PLAN
SHRUBS & GROUNDCOVERS
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

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SYMBOL	REVISION	DATE
	Init	Date
1	REI REV 1	12/22/25

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF

Consultant:

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REGISTERED LANDSCAPE ARCHITECT
RAFAEL J. FERRER
LA 6667368
STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667368

JOHN PENNEKAMP

Sheet Title: ENLARGED LANDSCAPE PLAN - SHRUBS & GROUNDCOVERS

Project Title: INTERPRETATIVE CENTER

ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

Sheet Number:
L129

PLOTTED:
12/23/2025

12/23/2025

PLANT SCHEDULE OVERALL

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	NATIVE	
LARGE TREE						
	AG	4	Avicennia germinans Black Mangrove	16` Ht. Min., 8` Spr. Min., 3.5" DBH Min.	Yes	
	BS	38	Bursera simaruba Gumbo Limbo	16' Ht. Min, 6' Spr., 3" DBH Min., 4' CT, Red Trunk	Yes	
	CH	9	Chrysophyllum oliviforme Satinleaf	14' Ht. Min., 5' Spr. 3" DBH Min., 4' CT	Yes	
	CD	9	Coccoloba diversifolia Pigeon Plum	14' Ht. Min., 5' Spr. 3" DBH Min., 4' CT	Yes	
	CU	25	Coccoloba uvifera Seagrape	16' Ht. Min., 5' Spr., 3" DBH Min., 4' CT	Yes	
	CE	34	Conocarpus erectus Green Buttonwood	14' Ht. Min., 5' Spr. 3" DBH Min., 4' CT	Yes	
	FA-B	2	Ficus aurea Strangler Fig	20' Ht. Min., 14' Spr., 8" DBH Min., 4' CT., Growing on Oolite Boulder	Yes	
	FA	3	Ficus aurea Strangler Fig	20' Ht. Min., 8' Spr., 5" DBH Min., 4' CT	Yes	
	LL	36	Lysiloma latisiliqua Wild Tamarind	16' Ht. Min., 6' Spr., 3" DBH Min., 4' CT	Yes	
	PP	1	Piscidia piscipula Jamaica Dogwood	16' Ht. Min, 6' Spr., 3" DBH Min., 4' CT, Red Trunk	Yes	
	RM	6	Rhizophora mangle Red Mangrove	16' ht. min, 8' spr., 3" DBH min, 4' CT	Yes	
	SG	3	Simarouba glauca Paradise Tree	14' Ht. Min, 6' Spr. Min., 3" DBH Min., 4' CT	Yes	
	SM	23	Swietenia mahagoni Mahogany	16' Ht. Min., 6' Spr., 3" DBH Min., 4' CT	Yes	
PALM TREES						
	SP-2	11	Sabal palmetto Sabal Palm	16'-20' OA Ht. Min., Curved, Half Slick/Half Booted, Staggered	Yes	
	SP-1	37	Sabal palmetto Sabal Palm	20' OA Ht. Min., Half Slick/Half Booted	Yes	
SMALL PALM TREE						
	TM	18	Thrinax morrisii Key Thatch Palm	8' OA Ht. Min., Single, 3' CT Min.	Yes	
	TR	13	Thrinax radiata Florida Thatch Palm	8' OA Ht. Min., Single, 3' CT Min.	Yes	
SMALL TREES/ACCENT SHRUBS						
	AE	4	Ardisia escallonioides Marlberry	6' Ht. Min., 4' Spr. Min., Full to base	Yes	
	BO	7	Bourreria ovata Bahama Strongbark	10' Ht. Min., 5' Spr. Min., 2" DBH Min.	Yes	
	CW	11	Canella winterana Cinnamon Bark	10' Ht. Min., 5' Spr. Min., 2" DBH Min.	Yes	
	CC	14	Capparis cynophallophora Jamaica Caper	8' Ht. Min., 5' Spr. Min., Full to base	Yes	
	CF	1	Citharexylum fruticosum Fiddlewood	6' Ht. Min., 4' Spr. Min., Full to base	Yes	
	CES	10	Conocarpus erectus f. sericeus Silver Buttonwood	10' Ht. Min., 5' Spr. Min. 2 1/2" DBH Min., 3' CT	Yes	
	ER	2	Eugenia rhombea Red Stopper	8' Ht. Min., 4' Spr. Min., 2" DBH Min.	Yes	
	GS	8	Guaiacum sanctum Lignum Vitae	8' Ht. Min., 6' Spr. Min., 2" DBH Min., 3' CT	Yes	
	MF	15	Myrcianthes fragrans Simpson's Stopper	10' Ht. Min., 5' Spr. Min., Multi-trunk, 3' CT	Yes	
ACCENTS						
	ACR	14	Acrostichum danaeifolium Leather Fern	36" Ht. Min., 36" Spr. Min., Full	Yes	
	ARG	3	Argusia gnaphalodes Sea Lavander	30" Ht. Min., 30" Spr. Min., Full	Yes	
	SUR	9	Suriana maritima Bay Cedar	6' Ht. Min., 4' Spr. Min., 2" DBH Min., 2' CT	Yes	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	NATIVE	SPACING
SHRUB AREAS						
	BOU	195	Bourreria cassinifolia Little Strongbark	24" Ht. Min., 20" Spr. Min., 30" oc, Full	Yes	30" o.c.
	BYR	18	Byrsonima lucida Locustberry	24" Ht. Min., 20" Spr. Min., 30" oc, Full	Yes	30" o.c.
	CAP	48	Capparis cynophallophora Jamaica Caper	24" Ht. Min., 20" Spr. Min., 30" oc, Full	Yes	30" o.c.
	CHR	743	Chrysobalanus icaco 'Red Tip' Red Tip Cocoplum	24" Ht. Min., 24" Spr. Min., 36" oc, Full	Yes	36" o.c.
	HAM	20	Hamelia patens Firebush	24" Ht. Min., 24" Spr. Min., 36" oc, Full	Yes	36" o.c.
	LAN	98	Lantana involucrata Wild Sage	24" Ht. Min., 18" Spr. Min., 24" oc, Full	Yes	24" o.c.
	NEB	400	Nephrolepis biserrata Giant Sword Fern	24" Ht. Min., 24" Spr. Min., 24" oc, Full	Yes	24" o.c.
	PSY	992	Psychotria nervosa Shinyleaf Wild Coffee	24" Ht. Min., 20" Spr. Min., 30" oc, Full	Yes	30" o.c.
	SER	138	Serenoa repens Saw Palmetto	36" Ht. Min., 36" Spr. Min., 36" oc, Full		36" o.c.
	ZAN	20	Zanthoxylum fagara Wild Lime	24" Ht. Min., 20" Spr. Min., 30" oc, Full	Yes	30" o.c.
GROUND COVERS						
	BOR	416	Borrichia arborescens Sea Ox-Eye Daisy	18" Ht. Min., 12" Spr. Min., 18" oc, Full	Yes	18" o.c.
	CHH	1,502	Chrysobalanus icaco 'Horizontalis' Horizontal Cocoplum	14" Ht. Min., 12" Spr. Min., 24" oc, Full	Yes	24" o.c.
	ERA	388	Eragrostis elliottii Elliot's Lovegrass	18" Ht. Min., 12" Spr. Min., 24" oc, Full	Yes	24" o.c.
	ERN	2,606	Ernodea littoralis Golden Creeper	18" Ht. Min., 12" Spr. Min., 18" oc, Full	Yes	18" o.c.
	HYM	79	Hymenocallis latifolia Spider Lily	14" Ht. Min., 12" Spr. Min., 24" oc, Full	Yes	24" o.c.
	MUH	1,372	Muhlenbergia capillaris Pink Muhly Grass	18" Ht. Min., 12" Spr. Min., 24" oc, Full	Yes	24" o.c.
	NEP	1,298	Nephrolepis exaltata Boston Fern	18" Ht. Min., 12" Spr. Min., 18" oc, Full	Yes	18" o.c.
	SES	223	Sesuvium portulacastrum Sea Purslane	12" Ht. Min., 18" Spr. Min., 18" oc, Full	Yes	18" o.c.
	SPB	832	Spartina bakeri Sand Cordgrass	18" Ht. Min., 18" Spr. Min., 24" oc, Full	Yes	24" o.c.
	SPP	684	Spartina patens Saltmeadow Cordgrass	18" Ht. Min., 18" Spr. Min., 24" oc, Full	Yes	24" o.c.
	STA	304	Stachytarpheta jamaicensis Blue Porterweed	14" Ht. Min., 12" Spr. Min., 24" oc, Full	Yes	24" o.c.
	UNI	329	Uniola paniculata Sea Oats	18" Ht. Min., 18" Spr. Min., 24" oc, Full	Yes	24" o.c.
	ZAP	1,506	Zamia pumila Coontie	18" Ht. Min., 18" Spr. Min., 24" oc, Full	Yes	24" o.c.
SOD						
	SOD	7,604 sf	Paspalum vaginatum Seashore Paspalum	Solid Sod	Yes	

PARKING LOT LANDSCAPING STANDARDS COMPLIANCE
LDC SECTION 114-100(a)(1)-(15)

Project Area	140,700	SF
Trees Removed	62	EA

Planting Material	Required		Proposed	
Mitigation Requirements (2:1)	124	EA		
Trees - Units required per code (one every 1000 SF)	141	EA		
TOTAL	**265**	**EA**	**291**	**EA**
Shrubs & Groundcovers - SF (20% of overall area)	28,140	SF	54,326	SF

* Specifications noted are minimum standards, all plant material shall meet or exceed ALL specifications. Trees must meet the minimum DBH specified. Shrubs must meet the minimum height specified.
* Contractor shall inspect all rootballs prior to installation. If any circling roots are found they shall follow the corrective actions shown in the details on these drawings. If the roots cannot be corrected the plant will be rejected.
* No substitutions of plant material shall be allowed without prior written authorization from the Landscape Architect.
* All areas not covered by buildings, shrubs, groundcovers, or paving shall be sodded with Seashore paspalum Sod (or whatever sod is adjacent) and Irrigated with whichever system is specified for this project.

PLANS ARE NOT COMPLETE WITHOUT WRITTEN SPECIFICATIONS

SYMBOL	REVISION	DATE
1	REVISED PER REV 1	12/23/2025

ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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RAFAEL J. FERRER
LA 6667366
STATE OF FLORIDA
REGISTERED
12/23/2025
Rafael J. Ferrer, LA 6667366

JOHN PENNEKAMP

Sheet Title: PLANT LIST

Project Title: INTERPRETATIVE CENTER

Sheet Number: L130

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12/23/2025

LANDSCAPE SPECIFICATIONS

1. GENERAL

1.01 The contractor shall obtain and pay for all permits related to this section of work unless previously excluded.

1.02 Before changes or substitutions can be made due to unavailability of plant material, submit evidence of having undertaken methods of locating plant material that is acceptable to the Landscape Architect.

1.03 In the case of discrepancy in the plant quantities between the plan drawings, plant call outs, plant list or plant schedule, the number of plants or square footage of the planting bed actually drawn on the plan drawings shall be deemed correct and prevail.

1.04 Evidence of inadequate protection following digging, carelessness in transit, or improper storage or handling shall be cause for rejection.

1.05 Submittals: Contractor to submit all product submittals 8 weeks prior to installation of plantings.

a) Product Data: submit manufacturer product data and literature describing all products required by this section to the Landscape Architect for approval.
b) Samples: submit samples of each product and material where required, to the Landscape Architect for approval. Label samples to indicate product, characteristics and locations in the work. Samples will be reviewed for appearance only. Compliance with other requirements is the responsibility of the Contractor.
c) Plant sources: submit sources of plants to the Landscape Architect for approval.

1.06 Pre-Construction Conference: Contractor shall schedule a pre-construction conference with the Landscape Architect at least seven (7) days before beginning the work, to review any questions the Contractor may have regarding the work, administrative procedures during construction and project work schedule.

1.07 The Landscape Architect shall be informed of the progress of the work so that the work may be observed at the following key times in the construction process.
a) Site Conditions Prior to Start of Planting - to review soil and drainage conditions
b) Completion of Plant layout staking- review of plant layout
c) Plant Quality- Review of plant quality at time of delivery and prior to installation. The Landscape Architect reserves the right to select and observe all plants at the nursery prior to delivery. If a particular defect or substandard element can be corrected at the nursery as determined by the landscape architect, the agreed upon remedy may be applied by the nursery or contractor provided that the correction allows the plant to meet the requirements stipulated in this section. Any work to correct defects shall be at the contractor's expense.
The landscape architect may choose to attach their seal to each plant or a representative sample. Viewing or sealing of plants by the Owner's representative at the nursery does not preclude the landscape architect to reject the plant material while on site.
d) Completion of the Planting- review the completed planting.

1.08 The Landscape Architect shall inspect all work for Substantial Completion upon notice of completion. Upon completion and re-inspection of all repairs or renewals necessary in the judgement of the Landscape Architect, the Landscape Architect will recommend to the Owner the Acceptance of the work.

1.09 Following Acceptance, maintenance of the plant material shall become the Owners responsibility. The Contractor shall provide the Owner with a typewritten recommended maintenance program at the time of Acceptance. Make periodic inspections of the Owners maintenance during the guarantee period. Submit written report to the Owner of any corrective measures required to keep the guarantee valid.

1.10 It is the responsibility of the contractor to be aware of all surface and subsurface conditions, and to notify the Landscape Architect, in writing of any circumstances that would negatively impact the health of plantings. Do not proceed with work until satisfactory conditions have been corrected.

1.11 All plant material shall be guaranteed for a period of one (1) year from the time of Acceptance.

1.12 Sod shall be guaranteed for a period of 90 days from the time of Acceptance. Replacement sod under this guarantee shall be guaranteed for an additional 90 days from the date of installation. Repair any damage caused by sod replacement at no cost to the Owner.

1.13 Plants shall be healthy, free of pests and disease, and in flourishing condition at the end of the guarantee period. Plants shall be free of dead and dying branches and branch tips, and shall bear foliage of normal density, size and color.

1.14 Replace dead plants and all plants not in a vigorous, thriving condition, as determined by the Landscape Architect, during and at the end of the guarantee period, without cost to Owner, as soon as weather conditions permit and within the specified planting period.

a. Replacements shall closely match adjacent specimens of the same species. Replacements shall be subject to all requirements stated in these specifications.

b. Make all necessary repairs caused by plant replacement activities.

c. The guarantee of all replacement plants shall extend for an additional one year period from the date of their acceptance after replacement. In the event that a replacement plant is not acceptable during or at the end of the said extended guarantee period, the Owner may elect either one more replacement, without guarantee, or credit for each item.

1.15 At the end of the guarantee period, the Landscape Architect will inspect the work for Final Acceptance. Upon completion of all repairs or replacements necessary, in the judgement of the Landscape Architect, the work will be recommended for Final Acceptance by the Owner.

II PRODUCTS

2.01 All plant material shall be Florida No. 1, as specified in the Grades and Standards for Nursery Plants, 2015 or latest edition unless otherwise noted.

2.02 All plant material shall meet or exceed the size requirements as specified in the plant list. No substitutions shall be accepted without the Landscape Architect's approval. If a range of size is given, no plant shall be less than the minimum size and not less than 50 percent of the plants shall be as large as the maximum size specified.

2.03 Contractor shall schedule with Landscape Architect a time in which to view plant material in the nursery prior to installation.

2.04 Planting soil shall consist of a mixture of 60% sand and 40% muck with a PH between 5.5 and 6.5.

2.05 Mulch shall be shredded Grade “A” Eucalyptus as manufactured by AACTION Nursery Products or approved equal. Submit suppliers product specification data sheet and a one gallon sample for approval.

2.06 Fertilizer for planting shall be Agriform planting tablets 20-10-5 formula, 21 gram. Fertilizer for palms shall be “Palm Special” - from AFEC 8-4-12. Submit suppliers product specification data sheet.

2.07 Fertilizer for sod shall be granular fertilizer having a 12-6-8 analysis. Submit suppliers product specification data sheet.

2.08 Weed control fabric shall be Pro5 Weed barrier by Dewitt or approved equal. Submit suppliers product specification data sheet.

2.09 Sod shall be free of weeds and the roots shall be thoroughly knit to the soil. At Substantial Completion all areas shall show a uniform stand of the specified grass in a healthy condition with no visible gaps or joints. Roll sod, except on pegged areas, with roller weighing no more than 150 lbs. per foot of roller width to eliminate air pockets. Sod shall be irrigated immediately before and/or after rolling. Topdressing with a 80-20 mix of sand and soil to fill cracks and low spots shall be repeated throughout the guarantee period as needed.

2.10 Tree guying and staking material shall be as shown in the details. Submit manufacturer's product data for approval.

2.11 Watering Bags: Plastic watering bags holding a minimum of 25 gallons of water and with a slow drip hole water release system, specifically designed to water establishing trees. Water should release over a several day period, not within a few hours. Watering bags shall be Treegator Irrigation Bags sized to appropriate model for the requirements of the plant, as manufactured by Spectrum Products, Inc,. Youngsville, NC. 27596, or approved equal. Submit suppliers product specification data sheet and a 2 bag- samples for approval.

III EXECUTION

3.01 Contractor is responsible for verifying all underground utilities and obtaining the necessary clearances prior to planting.

3.02 Contractor shall examine subgrade and rough grade before planting and alert Landscape Architect of any unacceptable subgrade or rough grade. The Contractor shall notify the Landscape Architect, in writing, of all soil or drainage conditions that he/she considers detrimental to growth of plant material. If the contractor fails to notify the Landscape Architect of such conditions, he/she shall remain responsible for the plant material through the guarantee period.

3.03 Volumetric soil moisture level, in both the planting soil and the root balls of all plants, prior to, during and after planting shall be above permanent wilting point and below field capacity for each type of soil texture within the following ranges.

Soil Type	Permanent Wilting Point	Field Capacity
Sand, Loamy sand, Sandy Loam	5-8%	12-18%
Loam, Sandy Clay, Sandy Clay Loam	14-25%	27-36%

Volumetric soil moisture shall be measured with a digital moisture meter. The meter shall be the Digital Soil Moisture Meter, DSMM500 by General Specialty Tools and Instruments, or approved equivalent.

The Contractor shall confirm the soil moisture levels with a moisture meter. If the moisture is too high, suspend planting operations until the soil moisture drains to below field capacity.

3.04 Subgrade of planting areas shall be loosened or scarified to a minimum depth of 6 inches prior to spreading planting soil. Subgrade shall be brought to true and uniform grade and shall be cleared of stones greater than 2 inch, sticks and other extraneous material.

3.05 Excavation of the Planting Space: Using hand tools or tracked mini-excavator, excavate the planting hole into the existing soil to the depth of the root ball measured after any root ball modification to correct root problems, and wide enough for working room around the root ball or to the size indicated on the drawing or as noted below.

1. For trees and shrubs planted in soil areas that are NOT tilled or otherwise modified to a depth of at least 12 inches over a distance of more than 10 feet radius from each tree, or 5 feet radius from each shrub, the soil around the root ball shall be loosened as defined below or as indicated on the drawings.
   a. The area of loosening shall be a minimum of 3 times the diameter of the root ball at the surface sloping to 2 times the diameter of the root ball at the depth of the root ball.
   b. Loosening is defined as digging into the soil and turning the soil to reduce the compaction. The soil does not have to be removed from the hole, just dug, lifted and turned. Lifting and turning may be accomplished with a tracked mini excavator, or hand shovels.
2. If an auger is used to dig the initial planting hole, the soil around the auger hole shall be loosened as defined above for trees and shrubs planted in soil areas that are NOT tilled or otherwise modified.
3. The measuring point for root ball depth shall be the average height of the outer edge of the root ball after any required root ball modification.
4. If motorized equipment is used to deliver plants to the planting area over exposed planting beds, or used to loosen the soil or dig the planting holes, all soil that has been driven over shall be tilled to a depth of 6 inches.

3.06 For trees to be planted in prepared planting soil that is deeper than the root ball depth, compact the soil under the root ball using a mechanical tamper to assure a firm bedding for the root ball. If there is more than 12 inches of planting soil under the root ball excavate and tamp the planting soil in lifts not to exceed 12 inches.

3.07 Backfill the space around the root ball with the same planting soil or existing soil that was excavated for the planting space. See Planting Soil- above, for requirements to modify the soil within the planting bed.

A. When the planting hole has been backfilled to three quarters of its depth, water shall be poured around the root ball and allowed to soak into the soil to settle the soil. Do not flood the planting space. If the soil is above field capacity, allow the soil to drain to below field capacity before finishing the planting. Air pockets shall be eliminated and backfill continued until the planting soil is brought to grade level.
B. Where indicated on the drawings, build a 4 inch high, level berm of planting soil around the outside of the root ball to retain water. Tamp the berm to reduce leaking and erosion of the saucer.
C. Thoroughly water the planting soil and root ball immediately after planting.

3.08 All areas to receive shrub planting shall be prepared with planting soil.

3.09 All areas to receive sod shall have a minimum of 2" of planting soil.

3.10 New trees, palms, shrubs and groundcovers shall be fertilized in accordance with manufacturers recommendations.

3.11 Sodded areas shall be fertilized with granular fertilizer at a rate of 12 lbs per 1000 S.F. of lawn and in accordance with the manufacturer's recommendations.

3.12 After planting, smooth out all grades between plants before mulching. Separate the edges of planting beds and lawn areas with a smooth, formed edge cut into the turf with the bed mulch level slightly lower, 1 and 2 inches, than the adjacent turf sod or as directed by Landscape Architect. Bed edge lines shall be a depicted on the drawings.

3.13 All planted areas are to receive a 2" layer of mulch.

3.13 Weed control fabric shall be installed as per manufacturer's recommendations.

3.14 Do not stake or guy trees unless specifically required by the Contract Documents, or in the event that the Contractor feels that staking is the only alternative way to keep particular trees plumb.

1. The Landscape Architect shall have the authority to require that trees are staked or to reject staking as an alternative way to stabilize the tree.
2. Trees that required heavily modified root balls to meet the root quality standards may become unstable. The Landscape Architect may choose to reject these trees rather than utilize staking to temporarily support the tree.

G. Trees that are guyed shall have their guys and stakes removed after one full growing season or at other times as required by the Landscape Architect.
H. If tree guying is necessary, Contractor shall utilize the tree staking and guying materials specified.

3.15 The contractor shall be fully responsible to ensure that adequate water is provided to all plants from the point of installation until the date of substantial completion acceptance. The contractor shall adjust the automatic irrigation system, if available, and apply additional or adjust for less water using hoses as required.

3.16. Contractor shall maintain all plant material including sod until acceptance. Maintenance shall consist of mowing, edging, pruning, watering, weeding, mulching, removal of dead material, maintaining plants in a plumb position, resetting plants to proper grades and upright position, and furnishing and applying such sprays as are necessary to keep plants free of insects and disease, and in a healthy growing condition.

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REVIEWED BY: RJF
Consultant:

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12/23/2025
Rafael J. Ferrer, LA 6667368

JOHN PENNEKAMP

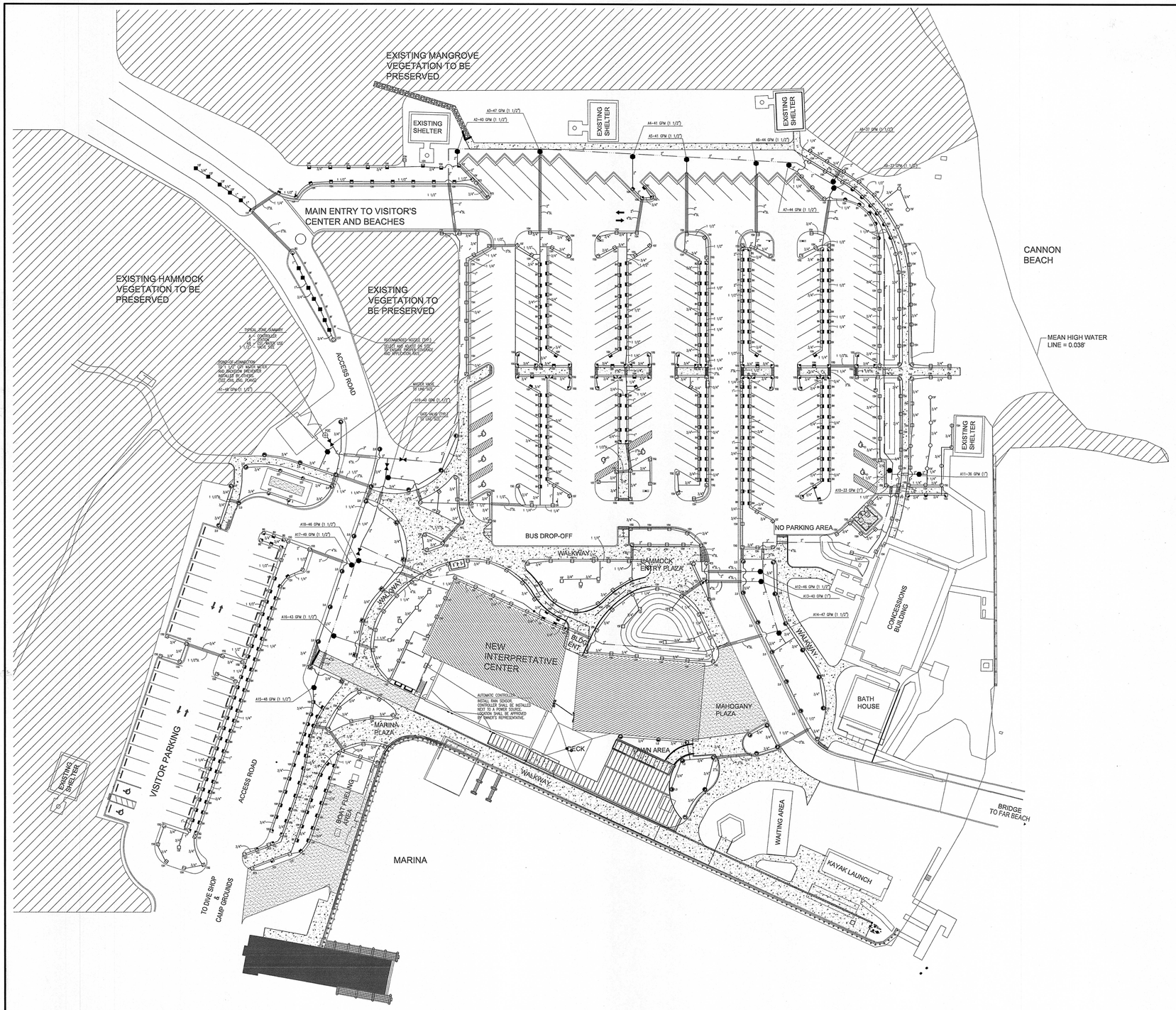
Sheet Title: LANDSCAPE NOTES

Project Title: INTERPRETATIVE CENTER

Sheet Number: L135

PLOTTED: 12/23/2025

12/23/2025



NOTES:

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IRRIGATION SHALL BE INSTALLED TO MATCH SITE CONDITIONS.

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IRRIGATION SITE PLAN
Scale 1" = 40'

0 20 40 80 120
SCALE IN FEET

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REVIEWED BY: RJF
Consultant: K2M DESIGN

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REGISTERED
RAFAEL J. FERRER
LA 6667386
STATE OF FLORIDA

12/29/2025

Rafael J. Ferrer, LA #6667386

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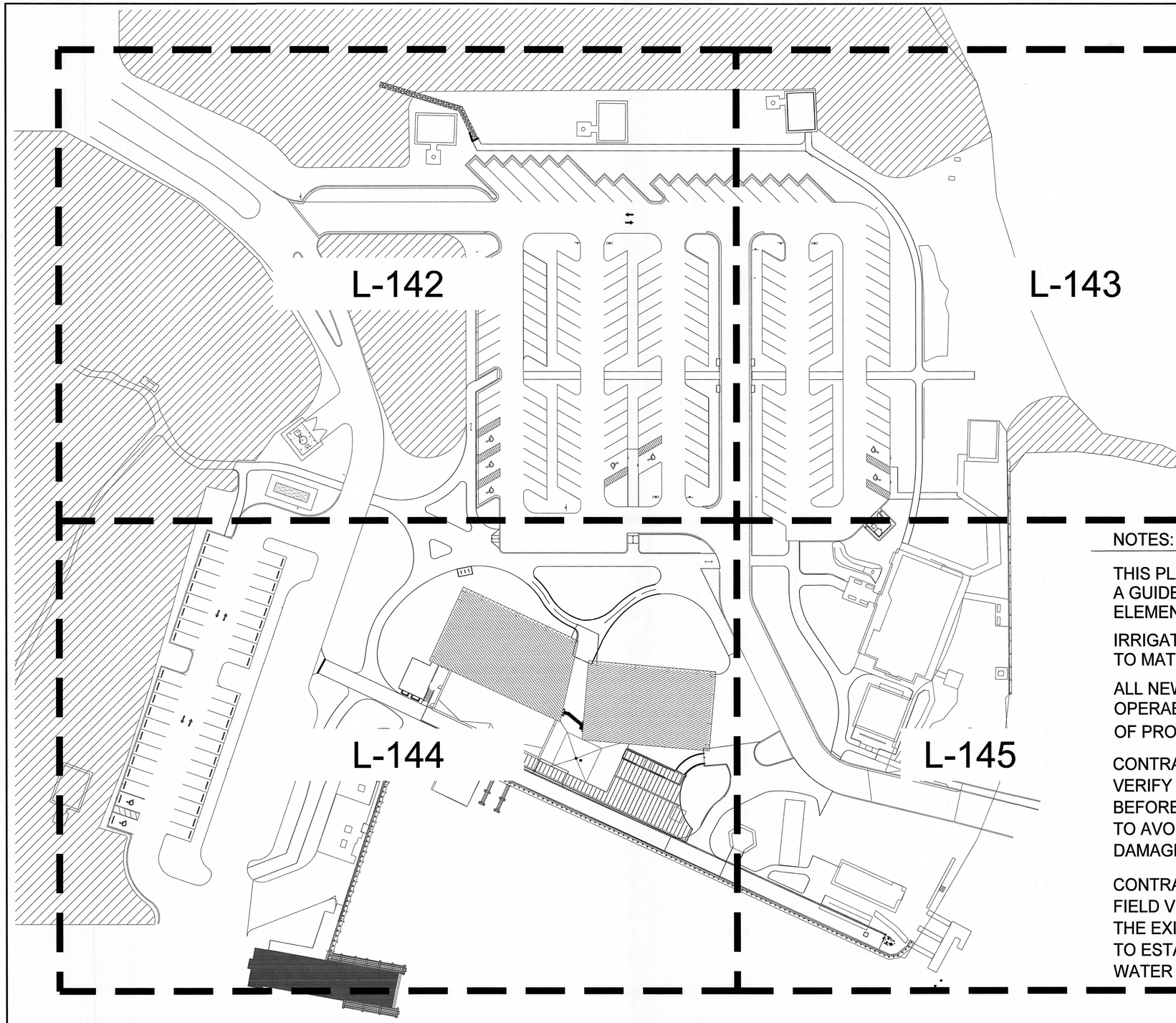
Sheet Title: IRRIGATION SITE PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L140

PLOTTED: 12/29/2025

12/29/2025



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IRRIGATION LAYOUT PLAN
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0 20 40 80 120
SCALE IN FEET

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DRAWN BY: CO
REVIEWED BY: RJF

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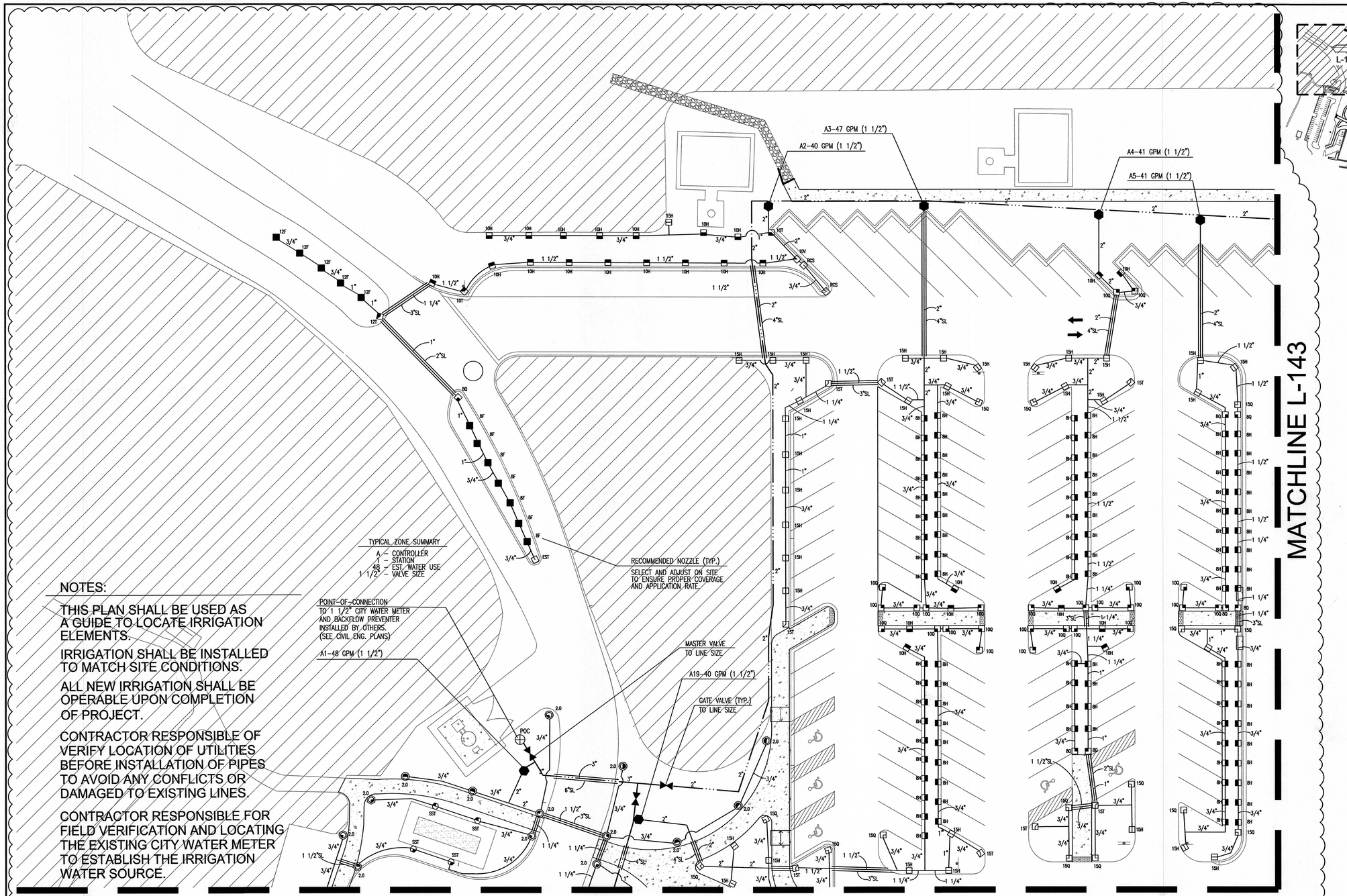
Sheet Title: JOHN PENNEKAMP IRRIGATION LAYOUT PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L141

PLOTTED: 12/29/2025

12/29/2025



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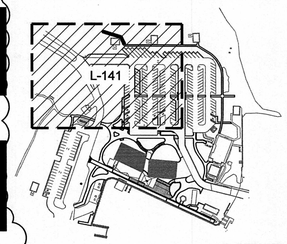

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Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

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DRAWN BY: CO
REVIEWED BY: RJF

Consultant: K2M DESIGN
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Sheet Title: JOHN PENNEKAMP
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Project Title: INTERPRETATIVE CENTER

Sheet Number: L142

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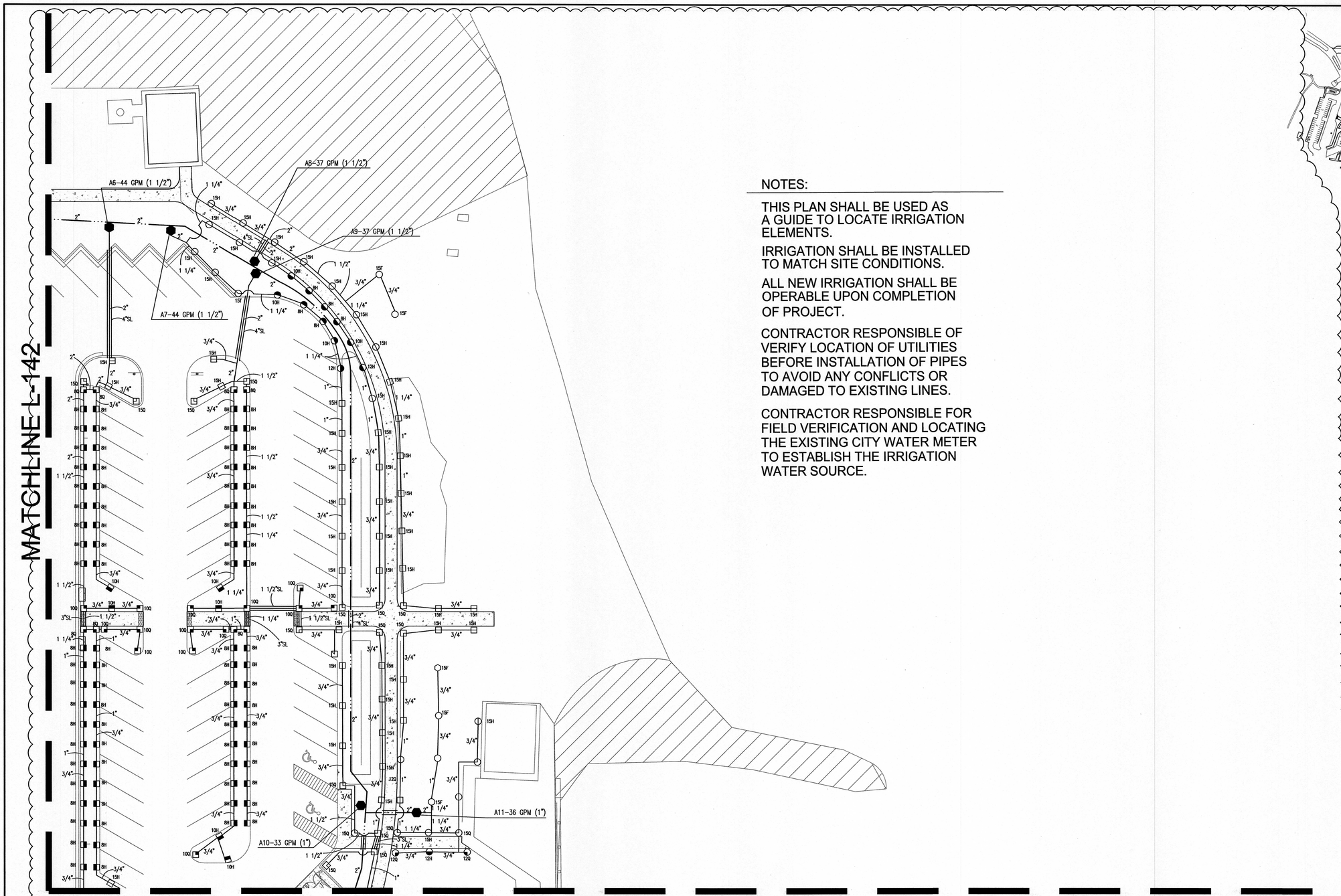

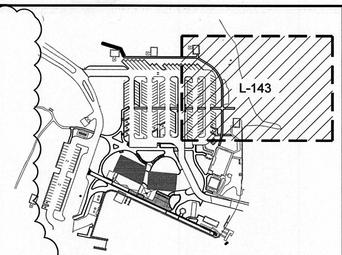

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0 10 20 40 60
SCALE IN FEET

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REVIEWED BY: RJF

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Sheet Title: ENLARGED IRRIGATION PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L143

PLOTTED: 12/29/2025

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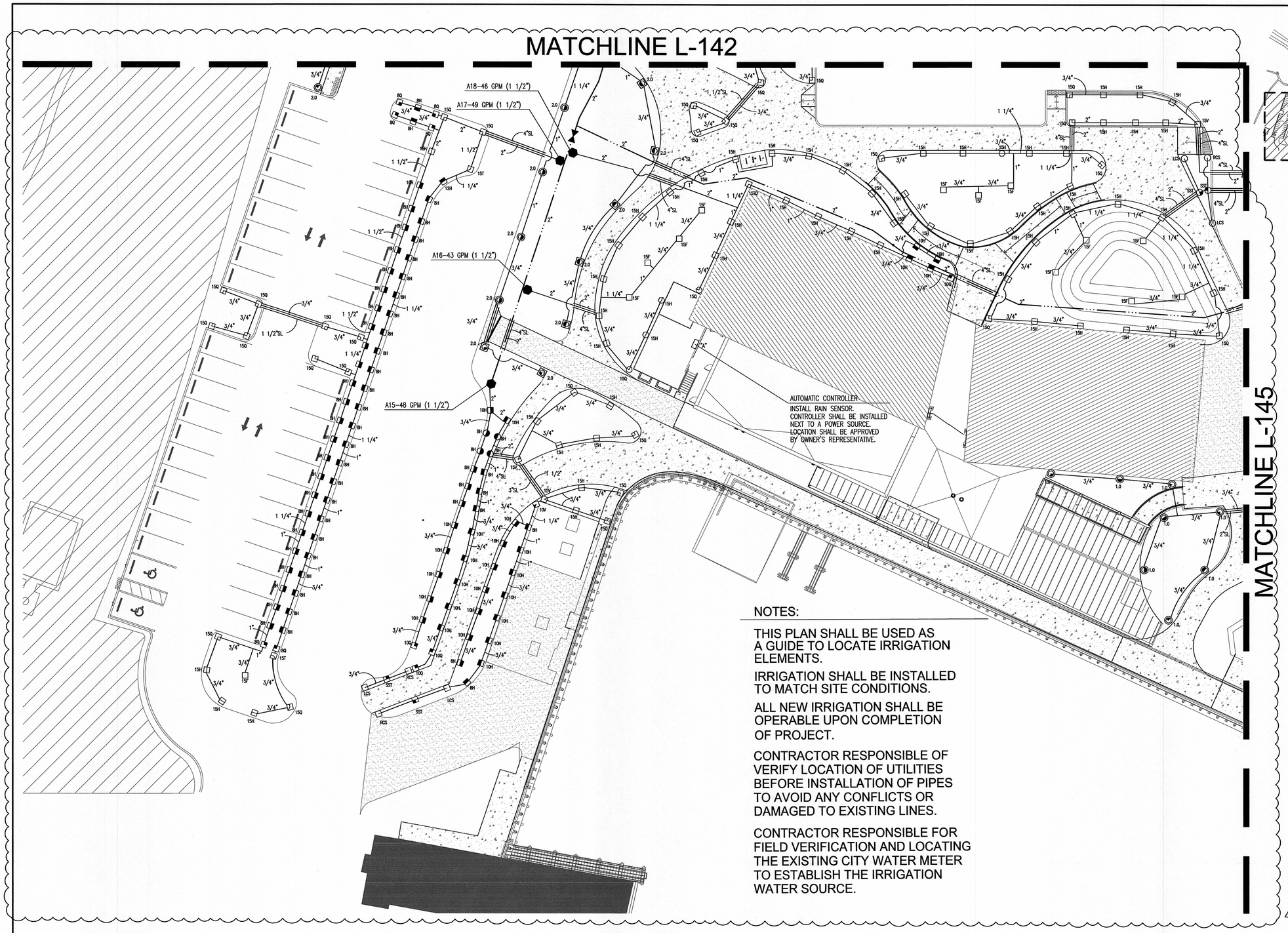

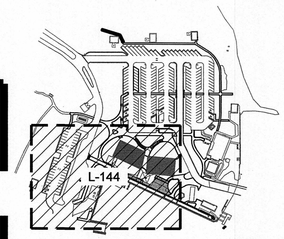

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0 10 20 40 60
SCALE IN FEET

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Sheet Title: ENLARGED IRRIGATION PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L144

PLOTTED: 12/29/2025

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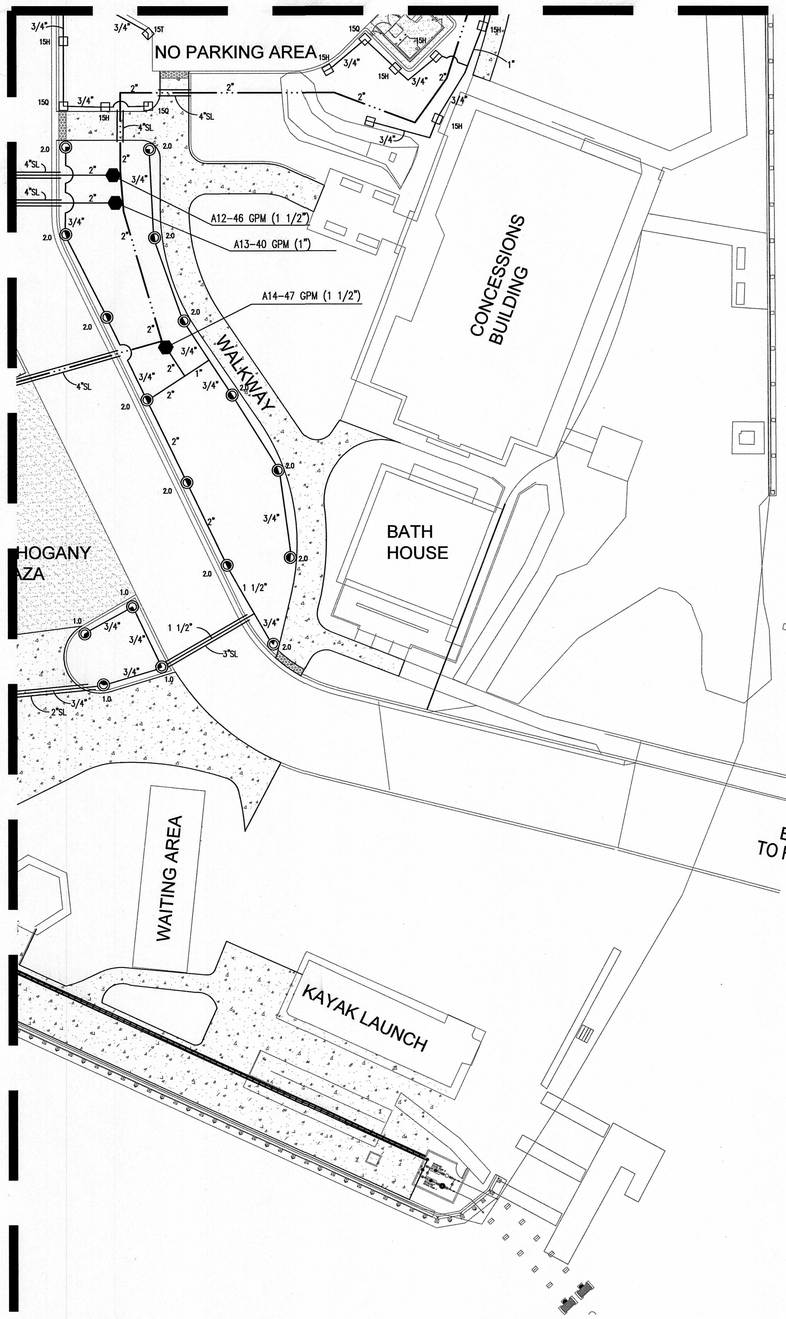

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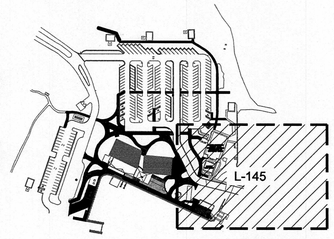

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REGISTERED LANDSCAPE ARCHITECT
RALPH J. FERRER
LA 6667366
STATE OF FLORIDA

Ralph J. Ferrer, LA 6667366
12/29/2025

JOHN PENNEKAMP

Sheet Title: ENLARGED IRRIGATION PLAN

Project Title: INTERPRETATIVE CENTER

Sheet Number: L145

PLOTTED: 12/29/2025

1

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ENLARGED IRRIGATION PLAN
Scale 1" = 20'

0 10 20 40 60
SCALE IN FEET

NORTH

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Landscape Architecture
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SOUTH MIAMI, FLORIDA 33143
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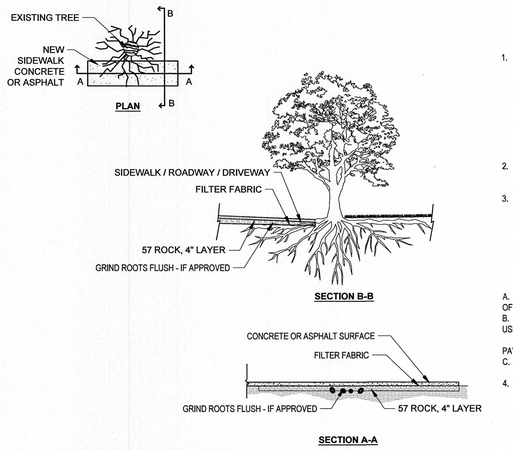


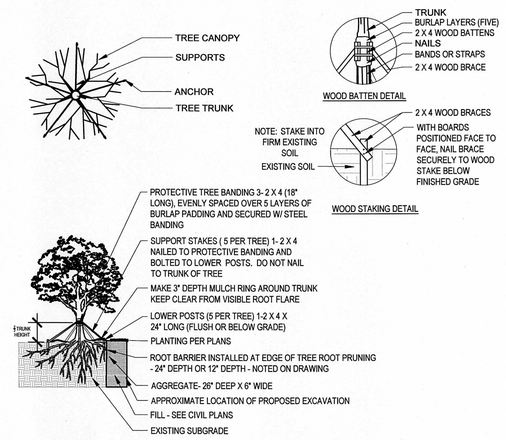
ROOT PRUNING NOTES:

1. EXPOSE ANY SURFACE ROOTS WITHIN LIMITS OF WORK, BY HAND. IF THERE ARE ONLY ROOTS LESS THAN 3" IN DIAMETER, A SUPERVISED CONTRACTOR CAN CUT WHAT IS NECESSARY TO ACHIEVE AN EVEN GRADE FOR PAVING, FOLLOWING THE CUTTING DIRECTIONS BELOW. IF ROOTS LARGER THAN 3" ARE ENCOUNTERED, AN ISA CERTIFIED ARBORIST SHALL ASSESS ROOTS AND MAKE DETERMINATION IF THEY CAN BE PRUNED AND IF ANY OTHER COURSE OF ACTION IS REQUIRED.
2. ALL CUTS SHALL BE MADE USING SHARP SAWS OR OTHER APPROPRIATE PRUNING EQUIPMENT.
3. AFTER ROOTS HAVE BEEN EXPOSED, MIST THEM SEVERAL TIMES A DAY. SCHEDULE WORK SUCH THAT THE NEW PAVING BASE COURSE LAYER CAN BE INSTALLED ON THE SAME DAY AS THE ROOT EXCAVATION. IF A DELAY IN PLACING THE BASE COURSE MATERIAL IS UNAVOIDABLE, MIST THE ROOTS AND COVER WITH FILTER FABRIC SECURED IN PLACE WITH WEIGHTS.

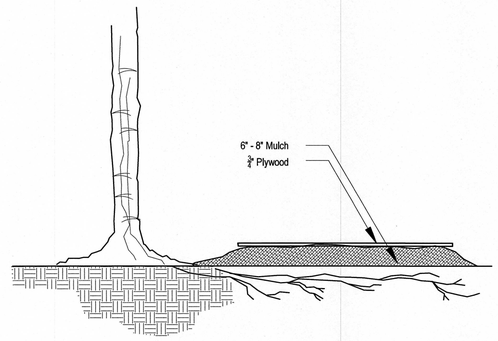
A. PLACE PAVING BASE COURSE LAYER DIRECTLY ON TOP OF THE EXPOSED ROOTS TO THE DEPTHS REQUIRED.
B. SPREAD THE MATERIAL BY HAND. COMPACT MATERIAL USING THE SMALLEST EQUIPMENT SUFFICIENT TO ATTAIN THE REQUIRED COMPACTION DEFINED IN SECTION PAVING.
C. WET THE BASE COURSE MATERIAL WHEN COMPLETED.

4. ALL WORK IS TO BE SUPERVISED ON SITE BY AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST AND PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS.

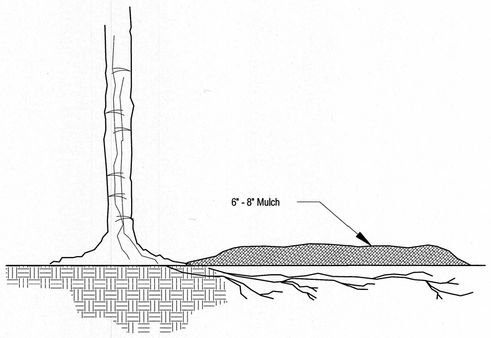
1 ROOT PRUNING DETAILS
1/16" = 1'-0"



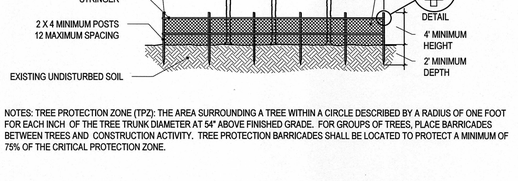
2 LARGE EXISTING TREE STAKING DETAIL
1/8" = 1'-0"



3 HEAVY MACHINERY ROOT PROTECTION DETAIL
1/4" = 1'-0"

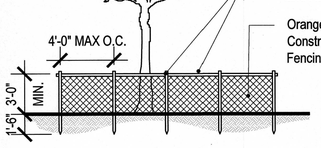


4 PEDESTRIAN ROOT PROTECTION DETAIL
1/4" = 1'-0"

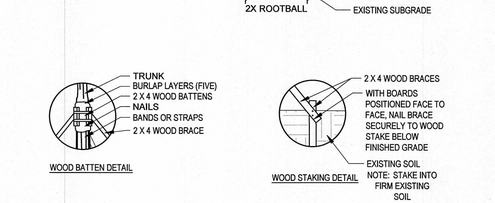


NOTES: TREE PROTECTION ZONE (TPZ): THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE TRUNK DIAMETER AT 54" ABOVE FINISHED GRADE. FOR GROUPS OF TREES, PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY. TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.

5 TREE PROTECTION DETAIL - TREE GROUPINGS
1/8" = 1'-0"



6 STAKING FOR TREE PROTECTION - INDIVIDUAL TREE
3/16" = 1'-0"



7 LARGE TREE PLANTING DETAIL
1/8" = 1'-0"

Tree Protection Notes

1.0 A Tree Protection Zone (TPZ) shall be established around all trees which are to be retained. The TPZ shall include all such trees in a single cluster, with protective fencing around the perimeter of the cluster.

2.0 The TPZ fencing shall be 4 feet high min., with wood posts spaced max. 10 feet o.c., with 2 x 2 mesh. Orange construction mesh shall be securely attached to posts and rails.

3.0 The area within the TPZ shall be maintained in its current condition. There shall be no grade changes, bulldozing, scarifying or any other type of soil disturbance within this area. No new utilities shall be installed in this area.

4.0 The area within the TPZ shall be kept free of heavy equipment operation. There shall be no movement of heavy equipment within these areas.

5.0 The area within the TPZ shall not be used for any type of materials storage or dumping (including wash water).

6.0 There shall be no damage, wounding, or other types of physical injury made to the tree trunks, buttress roots, surface roots, limbs, branches, or other exposed parts of the trees. No signage shall be attached to the trees and no work stations set up beneath the trees.

7.0 Prior to construction activities, any tree limbs which may interfere with, or are at risk of damage or injury from, construction activities, shall be pruned following the guidelines in the most recent edition of the American National Standards Institute A-300 document. All trees to be retained shall be pruned to clean their crowns, as defined in the ANSI A-300 document (remove dead, diseased, or broken branches).

8.0 Any tree roots which are at risk of being cut, damaged or exposed during excavation activities shall be pruned beforehand using appropriate pruning tools (saws, loppers or clippers) and techniques, leaving clean, smooth cuts at a maximum distance allowable from the tree trunks. When digging trenches using trenchers, backhoes or similar equipment, tree roots shall be cut by hand, using appropriate pruning tools, at least 2 to 4 inches further back, toward the tree, from the edge of the trench and behind the equipment-damaged roots. Trenches shall then be backfilled with sand or existing soil.

9.0 Heavy equipment shall be routed around all TPZ's. Heavy equipment routes shall have gravel or mulch maintained at a minimum depth of 3 to 4 inches at all times to help disperse weight loads and minimize soil compaction and root damage.

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	Date	

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Division of Recreation and Parks
Bureau of Design and Construction
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DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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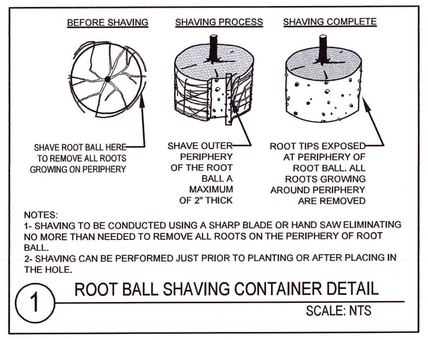
REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
12/23/2025
Rafael J. Ferrer, LA 6667366

Project Title: INTERPRETATIVE CENTER
Sheet Title: TREE DISPOSITION DETAILS
JOHN PENNEKAMP

Sheet Number: L500

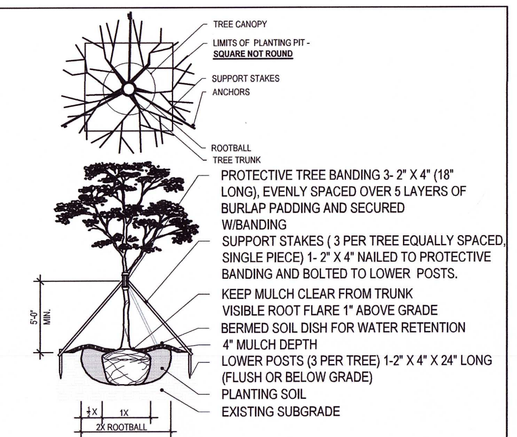
PLOTTED: 12/23/2025

12/23/2025

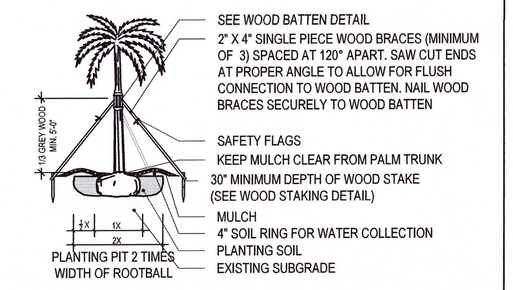


NOTES:
1- SHAVING TO BE CONDUCTED USING A SHARP BLADE OR HAND SAW ELIMINATING NO MORE THAN NEEDED TO REMOVE ALL ROOTS ON THE PERIPHERY OF ROOT BALL.
2- SHAVING CAN BE PERFORMED JUST PRIOR TO PLANTING OR AFTER PLACING IN THE HOLE.

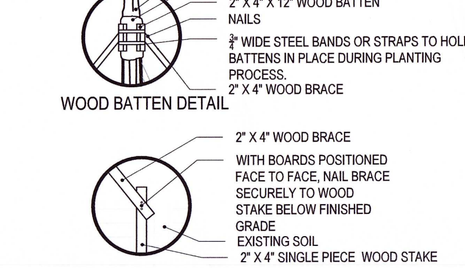
1 ROOT BALL SHAVING CONTAINER DETAIL
SCALE: NTS



4 LARGE TREE PLANTING DETAIL
3" CALIPER AND GREATER
SCALE: 1/8" - 1' - 0"

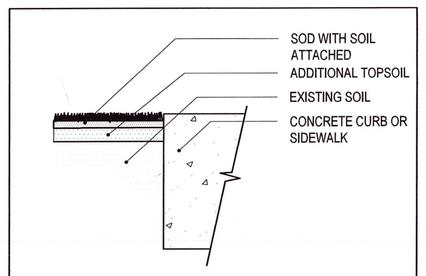


8 PALM PLANTING DETAIL
SCALE: 1/8" - 1' - 0"

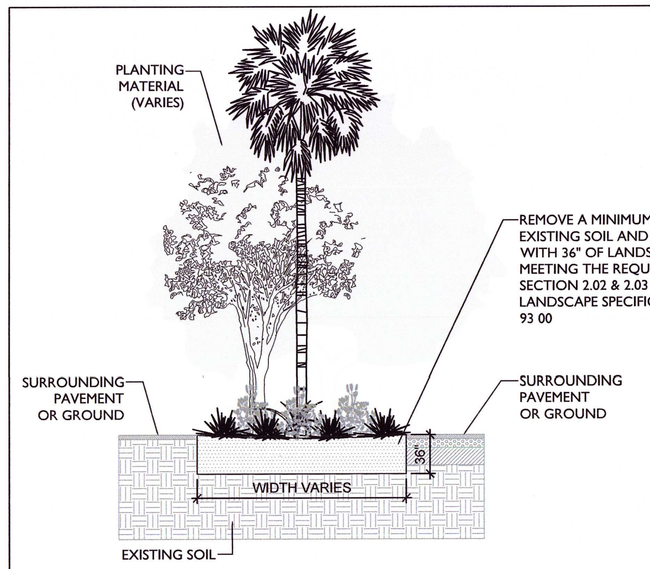


NOTE: STAKE INTO FIRM EXISTING SOIL

13 WOOD STAKING DETAIL
SCALE: 1/8" - 1' - 0"



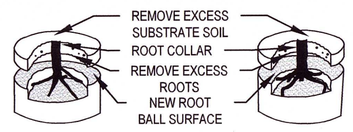
15 SOD ADJACENT TO CONCRETE DETAIL
SCALE: NTS



NOTES:
1- BED PREPARATION APPLIES TO ALL PLANTING AREAS REGARDLESS OF TYPE (TREES, PALMS, SHRUBS, GRASSES AND/OR GROUNDCOVERS).
2- EXISTING SOIL CONSIST OF ROCK FORMATIONS, CONCRETE, OR COMPACTED SUBGRADE THAT OFFER HIGH RESISTANCE TO EXCAVATION. SPECIAL EQUIPMENT AND BREAKING TOOLS WILL BE REQUIRED TO EXCAVATE THESE LAYERS

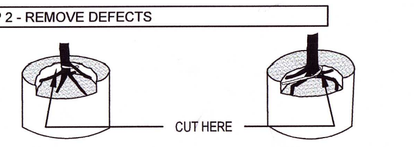
16 PLANTING BED PREPARATION TYPICAL DETAIL
SCALE: NTS

STEP 1 - REMOVE SUBSTRATE OVER ROOT COLLAR



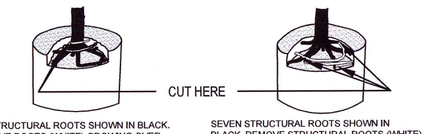
TREE PLANTED TOO DEEPLY IN ROOT BALL. REMOVE EXCESS SUBSTRATE AND ROOTS TO MEET ROOT INSPECTION DETAIL.

STEP 2 - REMOVE DEFECTS



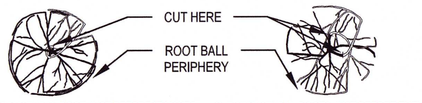
FIVE STRUCTURAL (LARGE) ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOT (WHITE) WRAPPING ROOT COLLAR.

FOUR STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE ROOT (WHITE) GROWING OVER STRUCTURAL ROOTS.



SIX STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE ROOTS (WHITE) GROWING OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

SEVEN STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOTS (WHITE) GROWING AROUND OR OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

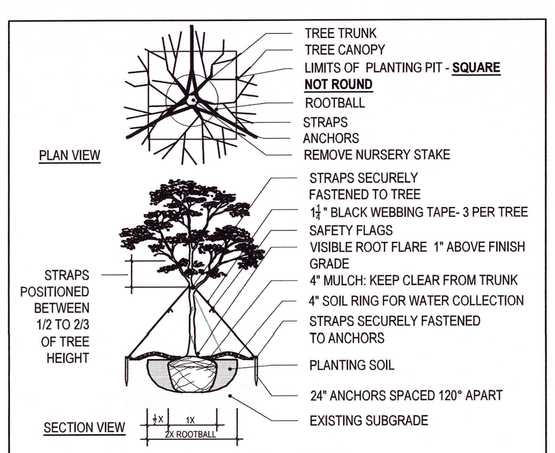


CUT STRUCTURAL ROOT JUST BEFORE IT MAKES ABRUPT TURN. PRUNING CUT SHOULD BE MADE TANGENT (PARALLEL) TO THE TRUNK.

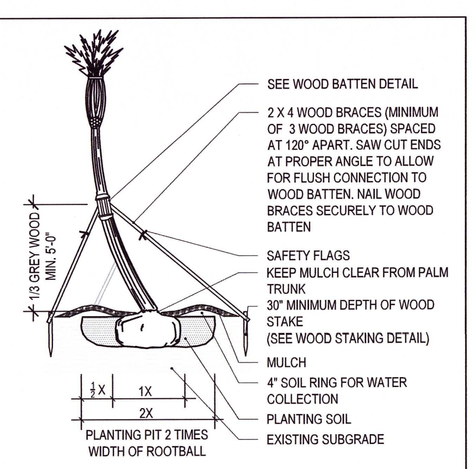
CUT STRUCTURAL ROOTS JUST BEFORE THEY MAKE ABRUPT TURN BY CUTTING TANGENT (PARALLEL) TO THE TRUNK (TWO CUTS SHOWN).

NOTES:
1- ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED CORRECTION.
2- FIRST STEP 1, THEN STEP 2. ROOTS AND SOIL MAY BE REMOVED DURING THE CORRECTION PROCESS. SUBSTRATE/SOIL SHALL BE REPLACED AFTER CORRECTION HAS BEEN COMPLETED.
3- TREES SHALL MEET ROOT OBSERVATIONS DETAIL FOLLOWING CORRECTION.
4- SMALL ROOTS (1/4" OR LESS) ON THE PERIPHERY OF THE ROOT BALL ARE COMMON WITH CONTAINER PLANT PRODUCTION. THESE SMALL ROOTS ARE NOT DEFINED AS "DEFECTS" AND CAN BE ADDRESSED AT THE TIME OF INSTALLATION (SEE ROOT BALL SHAVING CONTAINER DETAIL).

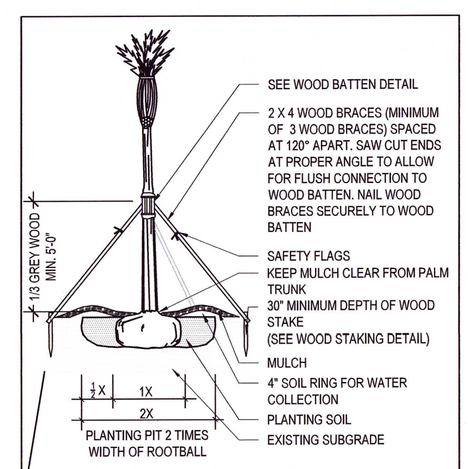
2 ROOT CORRECTION DETAIL - CONTAINER
SCALE: NTS



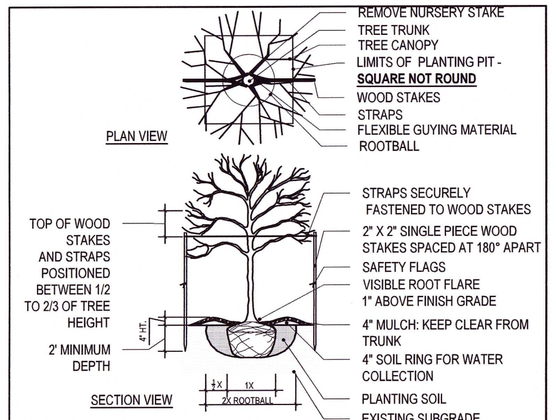
5 MEDIUM TREE PLANTING DETAIL
2" - 3" CALIPER
SCALE: 1/8" - 1' - 0"



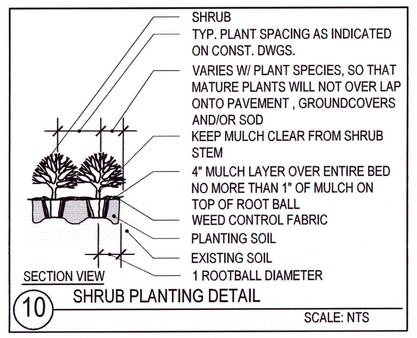
9 CURVED SABAL PALM PLANTING DETAIL
Scale: 1/8"=1'-0"



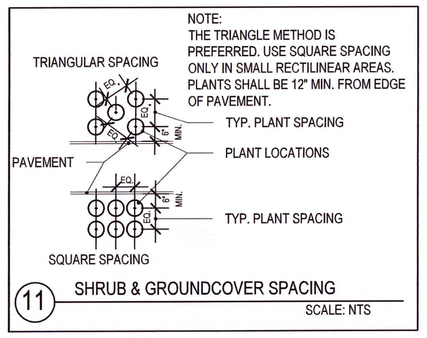
14 SABAL PALM PLANTING DETAIL
Scale: 1/8"=1'-0"



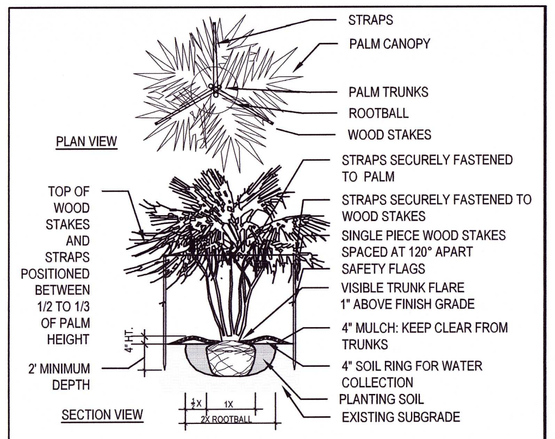
6 SMALL TREE PLANTING DETAIL
1" - 2" CALIPER
SCALE: 1/8" - 1' - 0"



10 SHRUB PLANTING DETAIL
SCALE: NTS

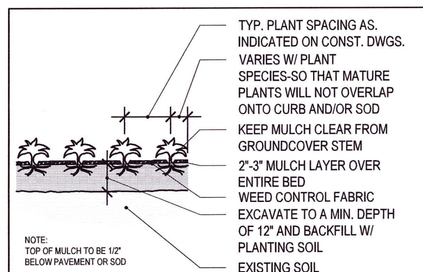


11 SHRUB & GROUNDCOVER SPACING
SCALE: NTS



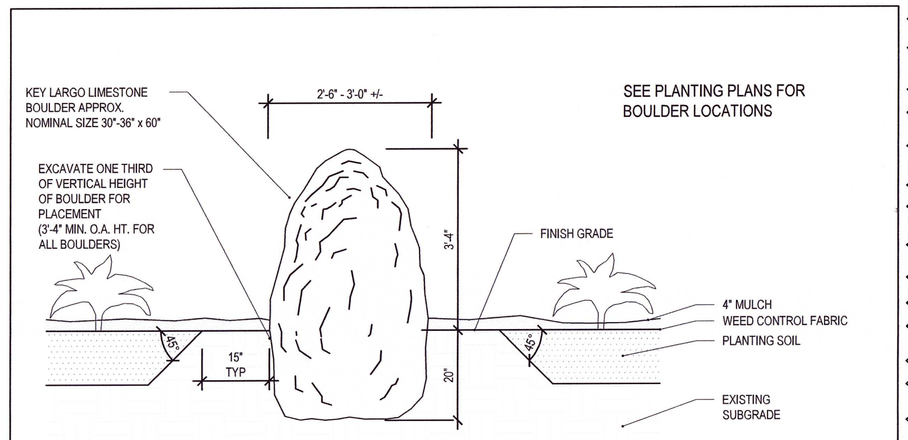
3 MULTI TRUNK TREE PLANTING DETAIL
SCALE: 1/8" - 1' - 0"

7 MULTI TRUNK PALM PLANTING DETAIL
SCALE: 1/8" - 1' - 0"



NOTES:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING.
2- SMALL ROCKS (4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS AT THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING .
4- GROUNDCOVER PLANTS SHALL BE 12" MINIMUM FROM EDGE OF PAVEMENT.

12 GROUNDCOVER PLANTING DETAIL
SCALE: NTS



NOTE:

1. BOULDERS CAN BE CAREFULLY EXTRACTED FROM SITEWORK EXCAVATION AND PRESERVED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

2. CONTRACTOR SHALL STAKE LOCATIONS OF BOULDERS AS SHOWN ON PLANS AND RECEIVE LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.

17 KEY LARGO LIMESTONE BOULDER INSTALLATION DETAIL
Scale: NTS

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SYMBOL	REVISION	DATE
1	RFI REV 1	12/12/25

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

ISSUE DATE 01.24.2025
COMP. FILE No.: 00000000
STATE PROJECT No.: 21088

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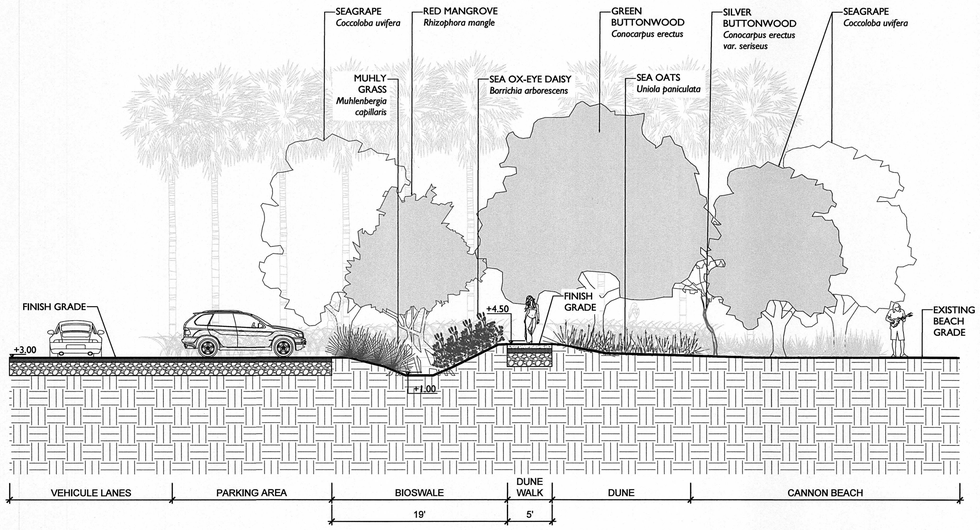
REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
Rafael J. Ferrer, LA 6667366
12/23/2025

JOHN PENNEKAMP
Sheet Title: LANDSCAPE DETAILS
Project Title: INTERPRETATIVE CENTER

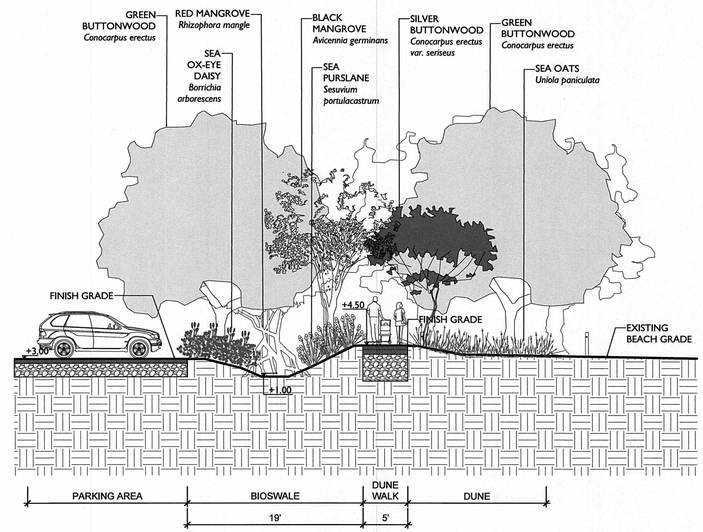
Sheet Number: L505

PLOTTED: 12/23/2025

12/23/2025



1 BIOSWALE SECTION
Scale 1/8" = 1'-0"



2 BIOSWALE SECTION
Scale 1/8" = 1'-0"

PLANS ARE NOT COMPLETE WITHOUT WRITTEN SPECIFICATIONS

100% CONSTRUCTION DOCUMENTS

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2026-030
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MONROE COUNTY
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CURTIS + ROGERS
DESIGN STUDIO INC
Landscape Architecture
7520 S RED ROAD, SUITE M
SOUTH MIAMI, FLORIDA 33143
305.442.1774 | 305.445.9488 FAX
www.curtisrogers.com

SYMBOL	REVISION	DATE
	Text	Date

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: CO
DRAWN BY: CO
REVIEWED BY: RJF
Consultant:

Architecture, Engineering,
Interior Design,
Facility Asset Management

Key Limo, Florida
Key West, Florida
Marathon, Florida
www.pennekamp.com
PHONE: (305) 451-1202
Building Relationships
Ownership Based on Three Keys (Key West | Marathon | Charities | Bahamas) Nationwide

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REGISTERED LANDSCAPE ARCHITECT RAFAEL J. FERRER LA 6667366 STATE OF FLORIDA
Rafael J. Ferrer, LA 6667366
12/23/2025

Sheet Title: LANDSCAPE DETAILS
Project Title: INTERPRETATIVE CENTER

Sheet Number: L506

PLOTTED: 12/23/2025

12/23/2025

LEGEND

SYMBOL	MODEL NO.	DESCRIPTION	* EST. QUANTITY
8Q	1800-HE-VAN-8Q	RAINBIRD ADJ. SHRUB SPRAY (RISER)	21
8H	1800-HE-VAN-8H	RAINBIRD ADJ. SHRUB SPRAY (RISER)	265
10V	1800-HE-VAN-10V	RAINBIRD ADJ. SHRUB SPRAY (RISER)	01
10Q	1800-HE-VAN-10Q	RAINBIRD ADJ. SHRUB SPRAY (RISER)	46
10T	1800-HE-VAN-10T	RAINBIRD ADJ. SHRUB SPRAY (RISER)	02
10H	1800-HE-VAN-10H	RAINBIRD ADJ. SHRUB SPRAY (RISER)	62
12H	1800-HE-VAN-10H	RAINBIRD ADJ. SHRUB SPRAY (RISER)	01
12F	1800-HE-VAN-10F	RAINBIRD ADJ. SHRUB SPRAY (RISER)	05
15Q	1800-HE-VAN-15Q	RAINBIRD ADJ. SHRUB SPRAY (RISER)	61
15H	1800-HE-VAN-15H	RAINBIRD ADJ. SHRUB SPRAY (RISER)	149
15TQ	1800-HE-VAN-TQ	RAINBIRD ADJ. SHRUB SPRAY (RISER)	01
15F	1800-HE-VAN-15F	RAINBIRD ADJ. SHRUB SPRAY (RISER)	10
15CS	1800-HE-VAN-15LCS	RAINBIRD ADJ. SHRUB SPRAY (RISER)	03
15RCS	1800-HE-VAN-15RCS	RAINBIRD ADJ. SHRUB SPRAY (RISER)	03
15ST	1800-HE-VAN-15ESST	RAINBIRD ADJ. SHRUB SPRAY (RISER)	01
15SST	1800-HE-VAN-15SST	RAINBIRD ADJ. SHRUB SPRAY (RISER)	02
8H	1806-HE-VAN-8H	RAINBIRD ADJ POP-UP SPRAY (6")	05
10H	1806-HE-VAN-10H	RAINBIRD ADJ POP-UP SPRAY (6")	04
12Q	1806-HE-VAN-12Q	RAINBIRD ADJ POP-UP SPRAY (6")	02
12H	1806-HE-VAN-12H	RAINBIRD ADJ POP-UP SPRAY (6")	03
15Q	1806-HE-VAN-15Q	RAINBIRD ADJ POP-UP SPRAY (6")	04
15H	1806-HE-VAN-15H	RAINBIRD ADJ POP-UP SPRAY (6")	18
15F	1806-HE-VAN-15F	RAINBIRD ADJ POP-UP SPRAY (6")	05
15CS	1806-HE-VAN-15LCS	RAINBIRD ADJ POP-UP SPRAY (6")	02
15RCS	1806-HE-VAN-15RCS	RAINBIRD ADJ POP-UP SPRAY (6")	02
15SST	1806-HE-VAN-15SST	RAINBIRD ADJ POP-UP SPRAY (6")	02
15Q	1812-HE-VAN-15Q	RAINBIRD ADJ. POP-UP SPRAY (12")	02
15H	1812-HE-VAN-15H	RAINBIRD ADJ. POP-UP SPRAY (12")	02
15F	1812-HE-VAN-15F	RAINBIRD ADJ. POP-UP SPRAY (12")	01
15ST	1812-HE-VAN-	RAINBIRD ADJ. POP-UP SPRAY (12")	03
15SST	1812-HE-VAN-	RAINBIRD ADJ. POP-UP SPRAY (12")	04
2.0	5006-PC/FC-2.0	RAINBIRD POP-UP ROTOR	07
1.0	3504-PC/FC-1.0	RAINBIRD POP-UP ROTOR	12
2.0	5006-PC/FC-2.0	RAINBIRD POP-UP ROTOR	28
2.0	5012-PC/FC-2.0	RAINBIRD POP-UP ROTOR	03
	PESB SERIES	RAINBIRD 1 1/2" SOLENOID VALVE	19
A	ESP-12LXME	RAIN BIRD AUTO CONTROLLER	01
	ESPLXMSM-B	RAIN BIRD 8 STATION MODULE	01
NOT SHOWN	RSD-BEx	RAINBIRD RAIN SENSOR	01
	765	FEBCO PRESSURE VACUUM BREAKER	01
NOT SHOWN		PAIGE DIRECT BURIAL UF WIRE #14 AWG VALVE CONTROL #12 AWG VALVE COMMON	AS REQUIRED
NOT SHOWN		SCH 40 GALVANIZED STEEL	AS REQUIRED
		SCH 40 PVC MAIN LATERALS SLEEVES SHRUB RISERS	AS REQUIRED
NOT SHOWN		PVC FITTINGS	
		MASTER VALVE (TO LINE SIZE)	01
		GATE VALVES (TO LINE SIZE)	03
		VALVE BOXES	23
NOT SHOWN		GROUNDING LOCATION	01
POC		POINT-OF-CONNECTION TO 1 1/2" CITY WATER METER	01

NOTE: ABOVE QUANTITIES ARE FOR COMPARISON ONLY.
CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID.

ZONE SUMMARY CHART

STA NO.	VALVE	SPRINKLER TYPE	VALVE SIZE	WATER DEMAND	RUN *TIME	WEEKLY USAGE	
1	A1	ROTOR	1 1/2"	48 GPM	90 MIN/WK	4320	GAL/WK
2	A2	SPRAY	1 1/2"	40 GPM	60 MIN/WK	2400	GAL/WK
3	A3	SPRAY	1 1/2"	47 GPM	60 MIN/WK	2820	GAL/WK
4	A4	SPRAY	1 1/2"	41 GPM	60 MIN/WK	2460	GAL/WK
5	A5	SPRAY	1 1/2"	41 GPM	60 MIN/WK	2460	GAL/WK
6	A6	SPRAY	1 1/2"	44 GPM	60 MIN/WK	2640	GAL/WK
7	A7	SPRAY	1 1/2"	44 GPM	60 MIN/WK	2220	GAL/WK
8	A8	SPRAY	1 1/2"	37 GPM	60 MIN/WK	2220	GAL/WK
9	A9	SPRAY	1 1/2"	37 GPM	60 MIN/WK	1800	GAL/WK
10	A10	SPRAY	1 1/2"	33 GPM	60 MIN/WK	1980	GAL/WK
11	A11	SPRAY	1 1/2"	36 GPM	60 MIN/WK	2160	GAL/WK
12	A12	SPRAY	1 1/2"	46 GPM	60 MIN/WK	2700	GAL/WK
13	A13	SPRAY	1 1/2"	40 GPM	60 MIN/WK	2400	GAL/WK
14	A14	ROTOR	1 1/2"	47 GPM	90 MIN/WK	2880	GAL/WK
15	A15	SPRAY	1 1/2"	48 GPM	60 MIN/WK	2580	GAL/WK
16	A16	SPRAY	1 1/2"	43 GPM	60 MIN/WK	2940	GAL/WK
17	A17	SPRAY	1 1/2"	49 GPM	60 MIN/WK	2760	GAL/WK
18	A18	SPRAY	1 1/2"	46 GPM	60 MIN/WK	2760	GAL/WK
19	A19	SPRAY	1 1/2"	40 GPM	60 MIN/WK	2400	GAL/WK
20	SPARE						
						48,120	GAL/WK

* TO APPLY 1.5 IN/WK

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM
WATER DEMAND / ZONE — REFER TO PLAN
WATER SOURCE — 1 1/2" CITY WATER METER
PRESSURE REQUIRED — 55 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, AND CONTRACT SPECIFICATIONS.

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH APPENDIX "F" OF THE SOUTH FLORIDA BUILDING CODE.

IRRIGATION DESIGN BASED ON CURTIS+ROGERS "LANDSCAPE PLAN" DATED DECEMBER 2025. CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL INSTALL IRRIGATION TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS SCALED AT 1" = 20'.

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING RAINBIRD SPRAY SPRINKLERS, ROTOR SPRINKLERS, IN-LINE VALVES, AND A CONTROL SYSTEM. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE WATER.

THE WATER SOURCE SHALL BE A 1 1/2" CITY WATER METER. CONTRACTOR SHALL TEST CITY WATER PRESSURE AT THE SOURCE PRIOR TO INSTALLATION AND SHALL VERIFY THAT CITY PRESSURE IS MANTAINED ABOVE 55 PSI WHEN IRRIGATION IS PROGRAMMED TO OPERATE.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. A PRESSURE VACUUM BREAKER HAS BEEN SPECIFIED.

CONTRACTOR IS ADVISED TO STUDY THE PLANS FOR ADDITIONAL INFORMATION AND TO VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.

TO INSURE PROPER OPERATION, PRESSURE REQUIRED, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, SPRINKLER SPACING, PIPE AND WIRE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

ANY DAMAGE TO EXISTING STRUCTURES AND UTILITIES DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATING THE EXISTING CITY WATER METER TO ESTABLISH THE IRRIGATION WATER SOURCE.

CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR CONSULTANT'S REVIEW.

PIPING

PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL: (1) BE BURIED TO A MINIMUM DEPTH OF 18", (2) BE TWO PIPE SIZES LARGER THAN THE CARRIER PIPE, AND (3) EXTEND 3' BEYOND HARDSCAPED AREA. CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LOCATION OF ALL EXISTING SLEEVES.

PIPE INSTALLED ABOVE GRADE FOR THE BACKFLOW PREVENTER SHALL BE SCH 40 GALVANIZED STEEL. ALL OTHER PIPING SHALL BE SCH 40 PVC.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

THE BACKFLOW PREVENTER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SHALL BE LOCATED TO BE CONCEALED FROM VIEW.

MASTER AND GATE VALVES SHALL BE INSTALLED FOR ISOLATION. THESE VALVES SHALL BE TO LINE SIZE AND SHALL BE INSTALLED IN VALVE BOXES. POROUS MATERIAL SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

FLUSH IRRIGATION SYSTEM WITH WATER TO CLEAR LINES OF FOREIGN MATERIAL AFTER SYSTEM ASSEMBLY IS COMPLETE AND PRIOR TO INSTALLATION OF SPRINKLER HEADS. CAP AND PLUG OUTLETS AND FILL LINES WITH WATER. PRESSURIZE ASSEMBLY TO 100 PSI AND SHUT OFF PUMP. SYSTEM SHALL HOLD AT 100 PSI FOR ONE HOUR AT NO LOSS OF PRESSURE. INSTALL SPRINKLER HEADS AFTER APPROVAL OF TEST RESULTS.

SPRINKLERS

SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, SITE LIGHTING, PREVAILING WIND, MOUNDING, SIGNAGE, ETC. TO INSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW ONTO WALKWAYS.

SPRAY HEADS SHALL BE RAINBIRD 1800 SERIES. SIX INCH POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH SOD AND MULCH, TWELVE INCH POP UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH GROUNDCOVER AND LOW SHRUBS AND SHRUB HEADS AND BUBBLERS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH TALL SHRUBS AND PALMS.

POP-UP TYPE SHALL BE INSTALLED ON FLEXIBLE SWING JOINTS CONSISTING OF THICK WALLED POLY PIPE AND 1/2" INSERT ELBOWS.

SHRUB TYPE AND BUBBLERS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS. SHRUB HEADS SHALL BE INSTALLED A STANDARD HEIGHT OF 6" ABOVE PLANTS AND SHALL BE INSTALLED WITHIN PLANTS TO BE CONCEALED FROM VIEW. BUBBLERS SHALL BE INSTALLED AT THE BASE OF TALL SHRUBS FOR LOW LEVEL WATERING. RISERS SHALL BE PAINTED FLAT BLACK TO BE LESS VISIBLE.

EACH SPRAY HEAD SHALL BE EQUIPPED WITH THE APPROPRIATE HE-VAN NOZZLE.

POP-UP ROTARY HEADS SHALL BE RAINBIRD 3500 AND 5000 SERIES, WHICH SHALL BE INSTALLED ON FLEXIBLE SWING JOINTS CONSISTING OF THICK WALLED POLY PIPE AND 3/4" INSERT ELBOWS.

POP-UP ROTOR INSTALLED IN SHRUB MASSES SHALL BE INSTALLED ON PVC SWING JOINTS CONSISTING OF MARLEX STREET ELBOWS, SCH 80 NIPPLES, AND SCH 40 RISERS WHICH SHALL BE STAKED TO STABILIZE.

ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO INSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. LOW ANGLE, FLAT SPRAY, AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO MINIMIZE OVERTHROW.

SPRINKLERS LOCATED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED AWAY FROM HARDSCAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANCE OF DAMAGE BY VEHICLES, PEDESTRIANS, AND LAWN MAINTENANCE PERSONNEL. AS A GENERAL RULE, 4" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 4", SHRUB HEADS AND 12" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 12", AND ROTOR HEADS SHALL BE INSTALLED IN 6".

CONTROL SYSTEM

A RAIN BIRD ESP-LXME SERIES ELECTRIC CONTROL SYSTEM SHALL BE INSTALLED. ONE 20 STATION CONTROLLER SHALL ACTIVATE 19 IN-LINE VALVES. ONE VALVE SHALL BE CONTROLLED PER STATION EXCEPT AS NOTED. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE WATER.

CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 120 VAC ELECTRIC SOURCE IS REQUIRED PER LOCATION.

CONTROL LINES FROM THE AUTOMATIC CONTROLLER TO IN-LINE AUTOMATIC VALVES SHALL BE #14 AWG DIRECT BURIAL UNDERGROUND FEED TYPE WHICH SHALL BE: (1) INSTALLED IN ACCORDANCE WITH LOCAL CODES, (2) SLEEVED WHEN ROUTED UNDER PAVEMENT, (3) BURIED TO A MINIMUM DEPTH OF 15", (4) COLOR CODED TO FACILITATE TROUBLESHOOTING AND, (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM THE CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

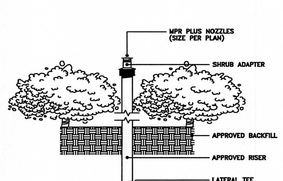
AN INDIVIDUAL CONTROL WIRE SHALL BE ROUTED TO EACH VALVE AND VALVES WHICH OPERATE SIMULTANEOUSLY SHALL BE TEED TOGETHER AT THE CONTROLLER.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

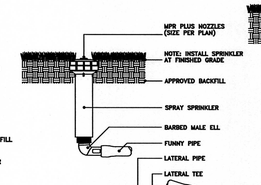
WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE RAIN SENSOR SHALL BE PLACED ON A STATIONARY STRUCTURE, MINIMUM OF 5' CLEARANCE FROM OTHER OUTDOOR EQUIPMENT, FREE AND CLEAR OF ANY TREE CANOPY OR OTHER OVERHEAD OBSTRUCTION, AND ABOVE THE HEIGHT OF SPRINKLER COVERAGE.

TIMING AND PRECIPITATION

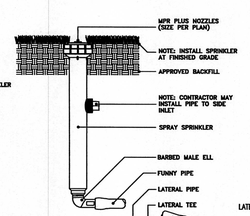
TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.5 INCHES/WEEK.



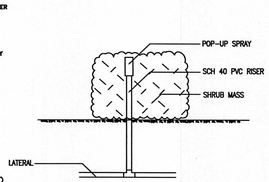
SHRUB/BUBBLER SPRINKLER
NOT TO SCALE



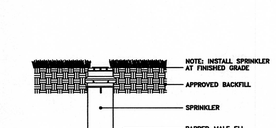
POP-UP SPRINKLER ON POLY PIPE SWING JOINT
NOT TO SCALE



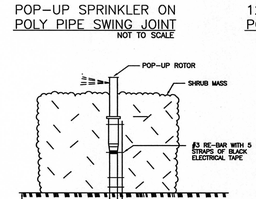
12" POP-UP SPRINKLER ON POLY PIPE SWING JOINT
NOT TO SCALE



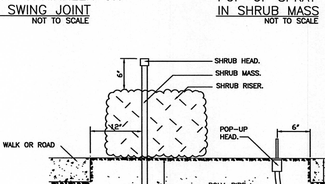
POP-UP SPRAY IN SHRUB MASS
NOT TO SCALE



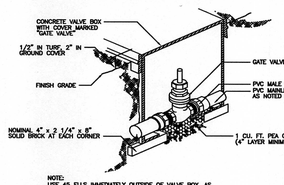
ROTOR ON POLY PIPE SWING JOINT
NOT TO SCALE



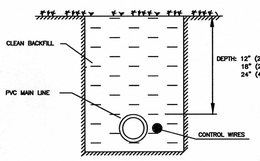
POP-UP ROTOR INSTALLATION
NOT TO SCALE



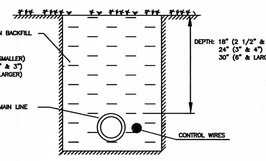
SPRINKLER LOCATION DETAIL
NOT TO SCALE



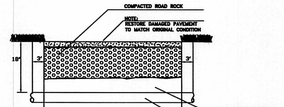
NOTE: USE 45 ELLS IMMEDIATELY OUTSIDE OF VALVE BOX, AS NECESSARY, FOR TRANSITION TO REQUIRED MAINLINE DEPTH.
GATE VALVE DETAIL
NOT TO SCALE



TRENCHING DETAIL
NON-VEHICLE TRAFFIC AREA
NOT TO SCALE

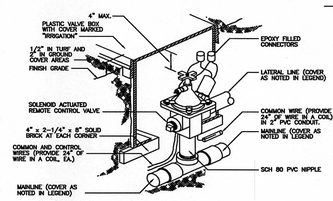


TRENCHING DETAIL
VEHICLE TRAFFIC AREA
NOT TO SCALE

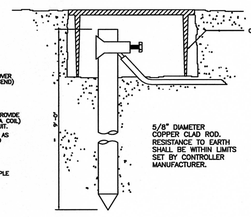


PIPE SLEEVE DETAIL
NOT TO SCALE

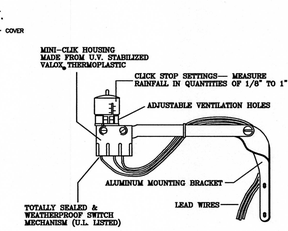
WIRE COLOR CODING CHART	
STATION #	WIRE COLOR
1 , 11	BLACK
2 , 12	RED
3 , 13	GREEN
4 , 14	YELLOW
5 , 15	ORANGE
6 , 16	BLUE
7 , 17	BROWN
8 , 18	PURPLE
9 , 19	TAN
10 , 20	GREY
COMMON	WHITE
SPARE	PINK



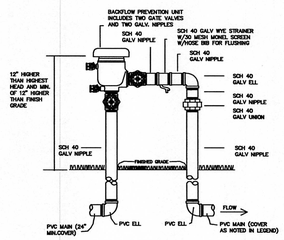
NOTE: USE 45 ELLS IMMEDIATELY OUTSIDE OF VALVE BOX, AS NECESSARY, FOR TRANSITION TO REQUIRED LATERAL LINE DEPTH.
REMOTE CONTROL VALVE DETAIL
NOT TO SCALE



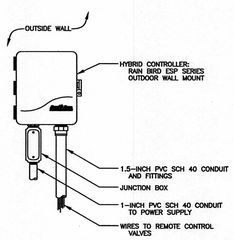
GROUNDING ROD INSTALLATION
NOT TO SCALE



MINI-CLIK II RAIN SENSOR
NOT TO SCALE



PRESSURE VACUUM BREAKER
NOT TO SCALE



ESP WALL MOUNT CONTROLLER
NOT TO SCALE

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IRRIGATION NOTES AND DETAILS
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100% CONSTRUCTION DOCUMENTS

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ISSUE DATE: 01.24.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

SYMBOL	REVISION	DATE
1	PER REV 1	10/27/25

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JOHN PENNEKAMP

Sheet Title: IRRIGATION NOTES & DETAILS

Project Title: INTERPRETATIVE CENTER

Sheet Number: L520

PLOTTED: 12/29/2025

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REGISTERED LANDSCAPE ARCHITECT RALPH J. FERRER LA 6667386 STATE OF FLORIDA
14/29/2025

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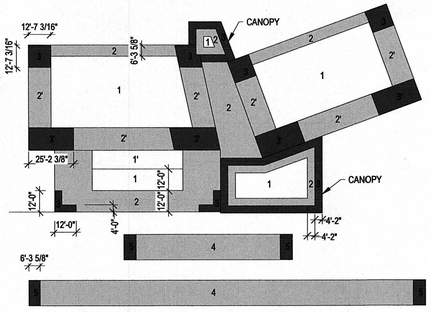
DESIGN CRITERIA

APPLICABLE BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE W/ 2023 FLORIDA BUILDING AMENDMENTS

DESIGN LIVE LOADS		
-	FLOOR LOADS	
1	ASSEMBLY AREAS	
·	FIRST FLOOR	100 PSF
·	UPPER FLOORS	100 PSF
2	MEZZANINES	125 PSF
3	STAIRS AND EXITS	100 PSF
-	ROOF LOADS	
1	MINIMUM ROOF SNOW OR LIVE LOAD	
·	DICTATED BY BUILDING OFFICIAL	N/A
2	MINIMUM ROOF LIVE LOAD BY CODE	20 PSF
3	RAIN OR SNOW	5 PSF

DESIGN WIND LOADS				
-	BASIC WIND SPEED (3 SECOND GUST) (ULTIMATE)			177 MPH
1	EXPOSURE			D
2	RISK CATEGORY			II
3	GCpi (ONLY USE FOR METHOD 2)			0.55
-	MAIN WIND-PRIMARY FRAME (ULTIMATE)			
	HEIGHT	INTERIOR ZONE	END ZONE	
1	0-32'	55.3 PSF	83.3 PSF	
-	COMPONENTS AND CLADDING WIND LOADS (PSF) (ULTIMATE)			SEE SCHEDULE
-	COMPONENTS AND CLADDING: USE THE MOST STRINGENT WIND LOAD OBTAINED FROM CODE, UNDERWRITER CRITERIA (FACTORY MUTUAL, ETC.), AND THE PROJECT SPECIFICATIONS. CLADDING MANUFACTURER SHALL CONSIDER INCREASED PRESSURE COEFFICIENTS AT BUILDING PERIMETER, CORNERS, EAVES, AND RAKES. LOADS NOTED IN GENERAL NOTES ARE OBTAINED FROM CODE			

SEISMIC LOADS		
-	Ss	0.046
-	S1	0.018
-	Sds	0.041
-	Sd1	0.026
-	SEISMIC IMPORTANCE FACTOR (Ie)	1.0
-	RISK CATEGORY	II
-	SEISMIC SITE CLASS	D
-	SEISMIC DESIGN CATEGORY	A
-	RESPONSE MODIFICATION FACTOR (R)	3
-	SEISMIC RESPONSE COEFFICIENT (Cs)	0.010
-	BASIC SEISMIC FORCE RESISTANCE SYSTEM	INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
-	ANALYSIS PROCEDURES	EQUIVALENT LATERAL FORCE METHOD
-	DESIGN BASE SHEAR (v)	25 KIPS (ULTIMATE)



ROOF WIND UPLIFT DIAGRAM

COMPONENTS AND CLADDING WIND PRESSURES

ROOF COMPONENTS (PSF)

ZONE	ZONE WIDTH (FT)	CONTROLLING TRIBUTARY OR EFFECTIVE WIND AREA (FT²)	POSITIVE PRESSURE	NEGATIVE PRESSURE
1/1'	SEE PLAN	10	68.1	132.2
		100	60.1	132.2
		200	60.1	132.2
		500	60.1	132.2
2	SEE PLAN	10	68.1	148.2
		100	60.1	140.2
		200	60.1	140.2
		500	60.1	140.2
2'	SEE PLAN	10	68.1	172.3
		100	60.1	164.3
		200	60.1	164.3
		500	60.1	164.3
3	SEE PLAN	10	68.1	188.3
		100	60.1	140.2
		200	60.1	140.2
		500	60.1	140.2
3'	SEE PLAN	10	68.1	252.4
		100	60.1	172.3
		200	60.1	172.3
		500	60.1	172.3
CANOPY 1,2 AND 3	SEE PLAN	100	79.3	72.0

WALL COMPONENTS (PSF)

ZONE	ZONE WIDTH (FT)	CONTROLLING TRIBUTARY OR EFFECTIVE WIND AREA (FT²)	POSITIVE PRESSURE	NEGATIVE PRESSURE
4	SEE PLAN	10	116.2	123.4
		100	103.4	110.7
		200	99.6	106.8
		500	94.5	101.8
5	SEE PLAN	10	116.2	145.0
		100	103.4	119.6
		200	99.6	111.9
		500	94.5	101.8

NOTES:

1. PRESSURES SHOWN ARE CALCULATED IN ACCORDANCE WITH THE WIND PROVISIONS OF ASCE 7 (REFER TO DESIGN CRITERIA FOR APPLICABLE VERSION) AND DO NOT INCLUDE ANY LOAD FACTORS. IT SHALL BE THE RESPONSIBILITY OF THE DELEGATED DESIGNER TO APPLY APPLICABLE LOAD FACTORS PER LOAD COMBINATIONS DEFINED IN CHAPTER 2 OF ASCE 7.

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THE SAFETY OF THE CONSTRUCTION PERSONNEL, PUBLIC, BUILDING AND ITS COMPONENT PARTS, AND ADJACENT BUILDING AND PROPERTIES. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY OR PERMANENT SHORING, BRACING, ETC. THAT MAY BE NECESSARY TO BRACE NEW CONSTRUCTION, ADJACENT BUILDINGS, SO THAT THE STRUCTURE IS BRACED FOR WIND, SEISMIC, GRAVITY, CONSTRUCTION LOADS, ETC. AND THAT NO HORIZONTAL OR VERTICAL SETTLEMENT OR ANY DAMAGE OCCURS TO THE ADJACENT EXISTING STRUCTURE. TEMPORARY SUPPORTS SHALL BE MAINTAINED IN PLACE UNTIL PERMANENT SUPPORTS OR SHORING AND BRACING ARE INSTALLED. DESIGN OF THESE SUPPORTS SHALL BE BY A REGISTERED ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED IN THE EMPLOY OF THE CONTRACTOR.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
4. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RE-SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER TRADES DRAWINGS FOR THE REQUIRED OPENINGS AND SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE APPROPRIATE TRADE CONTRACTOR. PROVIDING ALL OPENINGS REQUIRED FOR THE MECHANICAL, ELECTRICAL, PLUMBING, OR OTHER TRADES SHALL BE A PART OF THE GENERAL CONTRACT, WHETHER OR NOT SHOWN IN THE STRUCTURAL DRAWINGS. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR REVIEW.
6. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
7. DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF CLARIFICATIONS REGARDING APPLICABILITY OF "TYPICAL DETAILS".
8. WORK THESE DRAWINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
9. DO NOT SCALE DRAWINGS.
10. ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
11. SHOULD ANY OF THE GENERAL NOTES CONFLICT WITH ANY DETAILS OR INSTRUCTIONS ON PLANS, OR IN THE SPECIFICATIONS, THE STRICTEST PROVISION SHALL GOVERN.
12. SHOP DRAWINGS AND SUBMITTALS:
    a. THESE DRAWINGS SHALL BE CHECKED AND COORDINATED WITH OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTRACTOR AND SHOP DRAWINGS AND SUBMITTALS SHALL BEAR THE CONTRACTOR'S REVIEW STAMP WITH THE CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
    b. WHEN THE FABRICATOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT AND ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS AND ANY OTHER REFERENCES TO THE ARCHITECT AND ENGINEER FROM THAT ERECTION DRAWING. THE FABRICATOR'S NAME AND TITLE SHALL BE PLACED ON THE ERECTION DRAWINGS.
    c. WHERE DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION COULD AFFECT THE NEW CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE FIELD MEASUREMENTS IN TIME FOR THEIR INCORPORATION IN THE SHOP DRAWINGS.

BUILDING PAD PREPARATION

1. ALL BUILDING PAD PREPARATION SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT (UNO).
2. ALL TREES, BRUSH, ROOTS, TOPSOIL, RUBBLE, ORGANICALLY CONTAMINATED OR OTHERWISE OBJECTIONABLE MATERIALS ENCOUNTERED ARE TO BE REMOVED FROM STRUCTURAL AREAS OF THE SITE PER THE GEOTECHNICAL REPORT.
3. SUBGRADE SECTORS WHICH WILL EXIST IN CUT AND THOSE WHICH ARE TO SUPPORT FILL STRUCTURES ARE TO BE PROOF ROLLED. AREAS EXHIBITING INSTABILITY ARE TO BE UNDERCUT AND BACK FILLED ON A LIFT-BY-LIFT BASIS WITH EACH LIFT CAREFULLY COMPACTED.
4. IF UNSTABLE SUBGRADE SECTORS CANNOT BE STABILIZED BY EXCAVATION AND RE-COMPACTION, THEN CRUSHED STONE OR SIMILAR COARSE AGGREGATE MATERIALS SHALL BE ROLLED INTO THE SUBGRADE UNTIL A FIRM SUBGRADE REACTION IS ACHIEVED.
5. THE GEOTECHNICAL ENGINEER SHALL DETERMINE ON SITE OR OFF SITE IMPORTED MATERIAL THAT CAN BE USED FOR ENGINEERED FILL. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
6. THE PROPOSED ENGINEERED FILL MATERIALS ARE TO BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE MEASURED THICKNESS. EACH LIFT IS TO BE COMPACTED AS FOLLOWS:
    A. SLAB ON GRADE: MINIMUM OF 95% MAXIMUM DENSITY BY ASTM D698.
    B. FOOTINGS BEARING ON FILL: A MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D698.
8. THE EARTHWORK PROGRAM SHOULD BE CONDUCTED UNDER THE SUPERVISION OF A SOILS TESTING LABORATORY. THE IN-PLACE DENSITIES ACHIEVED ARE TO BE VERIFIED BY TESTS.

FOUNDATION

1. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SURVEY AND THE GEOTECHNICAL INVESTIGATION REPORT BEFORE STARTING CONSTRUCTION. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT BY ECS FLORIDA, LLC. DATED NOVEMBER 11, 2024 EXCEPT WHERE NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.
2. A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATION, BACK FILL, AND FOUNDATION PHASES OF THE PROJECT.
3. THE SOILS TESTING LABORATORY SHALL:
    A. DISCUSS WITH THE ENGINEER THE DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS AND THE TESTING PROCEDURES USED TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS BEFORE CONSTRUCTION BEGINS.
    B. INFORM THE ENGINEER OF ANY VARIANCE IN THESE PROCEDURES.
4. IT SHALL BE THE RESPONSIBILITY OF THE SOILS TESTING LABORATORY TO:
    a. DETERMINE TOPSOIL AND EXCAVATION STRIPPING DEPTH;
    b. INSPECT ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, AND EXCAVATION OPERATIONS;
    c. APPROVE FILL MATERIALS, PERFORM DENSITY TESTS OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS;
    d. FIELD VERIFY ASSUMED BEARING PRESSURE AND COORDINATE WITH GEOTECHNICAL ENGINEER;
    e. INSPECT FOUNDATION BEARING SURFACES.
5. FOUNDATION DESIGN IS BASED ON 3000 PSF BEARING PRESSURE ON FIRM, UNDISTURBED SOIL.
6. TOP OF FOOTING ELEVATIONS, FOOTING STEPS AND THICKNESS OF FOOTINGS ARE SHOWN ON THE DRAWINGS AND ARE BASED UPON THE INFORMATION FROM THE GEOTECHNICAL REPORT AND THE CIVIL DRAWINGS AVAILABLE AT THE TIME OF DESIGN. THE TOP AND BOTTOM OF FOOTING MAY VARY DEPENDING ON THE CONDITIONS ENCOUNTERED AT THE SITE. FROST DEPTH SHALL BE MAINTAINED AND COORDINATED WITH FINAL GRADING AND LOCATION OF FOOTING STEPS. IF PROPER FOUNDATION BEARING IS FOUND TO BE DEEPER THAN THAT SHOWN ON THE DRAWINGS THEN FOUNDATIONS SHALL BE THICKENED MAINTAINING THE TOP OF FOOTING ELEVATION TO ASSURE PROPER FOUNDATION BEARING. THE CONTRACTOR SHALL SUBMIT UNIT PRICES FOR SUCH WORK AND SHALL QUALIFY THE EXTENT OF WORK IN THE BASE BID. IF TOP OF FOOTING ELEVATIONS NEED TO VARY FOR FINAL SITE CONDITIONS THEN THE GENERAL CONTRACTOR SHALL COORDINATE THE EFFORT OF OTHER TRADES.
7. STEP FOOTINGS, WHERE REQUIRED, AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.
8. INUNDATION AND LONGTERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.

FOUNDATION CONT'D

9. BACK FILLING AGAINST PIT WALLS SHALL NOT BE PERMITTED UNTIL THE SUPPORTING FLOORS ARE IN PLACE AND ARE ABLE TO RESIST THE IMPOSED LATERAL FORCES EXCEPT FOR CANTILEVER RETAINING WALLS OR UNLESS NOTED OTHERWISE ON DRAWINGS, THE WALLS ARE SUPPORTED BY THE FLOOR ABOVE AND BELOW. PROPER TEMPORARY BRACING MAY BE USED IN LIEU OF THE FLOOR SUPPORT BASED UPON THE DESIGN BY A PROFESSIONAL ENGINEER. THE DESIGN OF TEMPORARY BRACING IS THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.
10. ALL FILL MATERIALS SHALL BE FREE OF ORGANIC CONTAMINATIONS AND OTHER DELETERIOUS MATTER.
11. FOR BACK FILL AGAINST RETAINING WALLS, FOOTINGS, ETC., PLACE IN 8" THICK LAYERS, WITH EACH LIFT COMPACTED AT NEAR OPTIMUM MOISTURE CONTENT, UNTIL A MINIMUM IN PLACE DENSITY OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 IS ACHIEVED.
12. NOTIFY STRUCTURAL ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT.

AUGER CAST CONCRETE PILES

1. PILE CAPACITY: (1)
    A. GRAVITY = 81 TONS
    B. UPLIFT = 20 TONS
    C. LATERAL = 3.5 TONS
2. PILE DIAMETER= 14"
3. ALL MORTAR FOR THE PILES SHALL BE HIGH STRENGTH WITH A MIXTURE OF PORTLAND CEMENT, MINERAL FILLER, FLUIDIFIER, SAND AND WATER. ULTIMATE COMPRESSIVE STRENGTH OF THE MORTAR SHALL BE A MINIMUM OF 4000 PSI IN 28 DAYS.
4. PILE LENGTHS SHOWN ON THE DRAWINGS ARE ESTIMATES FOR BIDDING PURPOSES. FINAL LENGTH SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
5. THE AUGER CAST PILES ARE TO EXTEND TO THE REQUIRED DEPTH OR REFUSAL, WHICHEVER OCCURS FIRST. THE TOP FINISHED ELEVATION OF THE PILE SHALL BE ACCORDING TO PLAN, PILE REINFORCING SHALL PROJECT INTO THE FOUNDATION AS SHOWN ON THE DRAWINGS.
6. A HEAD OF 5' SHALL BE MAINTAINED AT ALL TIMES.
7. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO BEGINNING WORK. PROTECT UTILITIES FROM DAMAGE WHEN THEY OCCUR IN CLOSE PROXIMITY TO PILING OPERATIONS. DRILL PILOT HOLES AS REQUIRED.
8. THE AUGER CAST PILES ARE TO BE REINFORCED WITH (4) #6 FULL LENGTH OF PILE AND AS SHOWN ON THE STRUCTURAL DRAWINGS.
9. THE PILES SHALL BE SOLID CONCRETE WITH NO SOIL INTRUSION. ADJACENT PILES SHALL NOT BE PLACED CLOSER THAN 3'-6" O/C UNTIL THE MORTAR IN THE PREVIOUS PILE HAS SET FOR 24 HOURS.
10. AUGER FLIGHTS SHALL BE CONTINUOUS FROM TOP TO BOTTOM WITH NO GAPS.
11. UPON COMPLETION OF THE WORK, A CERTIFIED PILE REPORT SHALL BE SUBMITTED BY THE CONTRACTOR RECORDING THE FOLLOWING:
    A. ACTUAL ELEVATION AT BOTTOM & TOP, ELEVATION OF ROCK (IF ANY)
    B. FINAL CENTERLINE LOCATION AT TOP
    C. VARIATION OF PILE FROM PLUMB
    D. ACTUAL ALLOWABLE BEARING CAPACITY OF BOTTOM
    E. ANY UNUSUAL CONDITIONS
    F. COMPLETION OF PILING
    G. INSPECTION, TESTING AND PLACEMENT OF CONCRETE (INCLUDE ANY DELAYS IN CONCRETING AND LOCATION OF CONSTRUCTION JOINTS IN SHAFTS)
    H. VOLUME OF CONCRETE PLACED
12. PILE LOAD TESTS SHALL BE PERFORMED FOR EACH SIZE AND/OR CAPACITY OF AUGER CAST PILES PER THE BUILDING CODE AND THE GEOTECHNICAL ENGINEER'S REQUIREMENTS AS DEFINED IN THE GEOTECHNICAL REPORT. THE LOAD TESTS SHALL BE PERFORMED AND THE RESULTS APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PRODUCTION PILES ARE INSTALLED.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE FOR THE YEAR REFERENCED IN THE APPLICABLE BUILDING CODE.
2. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 117, AS REFERENCED IN THE APPLICABLE BUILDING CODE, AND THE LATEST ACI DETAILING MANUAL.
3. CONCRETE PRODUCTION: GENERAL AS PER ACI 301, SECTION 4, ARTICLE 4.3, EXCEPT AS NOTED.
4. READY-MIXED CONCRETE: USE FOR ALL WORK, EXCEPT THAT WHEN SMALL QUANTITIES (NOT OVER 1/2 CUBIC YARD) ARE NEEDED FOR ISOLATED OR RELATIVELY UNIMPORTANT ITEMS.
5.

CONCRETE TYPES SCHEDULE						
TYPE OF CONCRETE	MINIMUM CEMENTITIOUS CONTENT (LB/CU. YD)	MAXIMUM WATER CEMENT RATIO	SPECIFIED 28-DAY COMPRESSIVE STRENGTH (PSI)	SPECIFIED SLUMP RANGE FOR PLACEMENT WITH W.R. (INCHES)	SPECIFIED AIR CONTENT RANGE (% BY VOLUMN)	MAXIMUM SIZE AGGREGATE (INCHES)
INTERIOR CONCRETE GRADE BEAMS PILE CAPS	564	0.48	4000	3-5	0-3 ENTRAPPED	1
AUGER CAST PILES	564	0.48	4000	5-8	4 (+/-1.5%)	1/2

   A. ALL CEMENT SHALL BE TYPE I OR TYPE III PORTLAND CEMENT PER ASTM C150. TYPES IA AND IP ARE NOT ACCEPTABLE. USE ONE BRAND OF CEMENT THROUGHOUT PROJECT.
   B. MINIMUM CEMENTITIOUS CONTENT SHALL CONSIST OF 100% CEMENT OR A COMBINATION OF CEMENT AND FLY ASH PER NOTE C, OR A COMBINATION OF CEMENT AND GROUND GRANULATED BLAST FURNACE SLAG (GGBFS) PER NOTE D. FLY ASH SHALL NOT BE USED IN COMBINATION WITH GGBFS AS A SUBSTITUTE FOR CEMENT.
   C. FLY ASH IS PERMITTED AND SHALL CONFORM TO ASTM C618 TYPE C OR F, BUT SHALL NOT EXCEED 20% OF CEMENTITIOUS CONTENT BY WEIGHT INDICATED ABOVE ON A SUBSTITUTION BASIS AND SHALL BE INCLUDED IN THE WATER-TO-CEMENT RATIO. IF FLY ASH IS USED, THE MIX DESIGN SUBMITTALS SHALL HAVE TESTS USING THE SAME AMOUNT OF FLY ASH. THE CONTRACTOR'S SCHEDULE SHALL ACCOUNT FOR THE USE OF FLY ASH.
   D. GROUND GRANULATED BLAST FURNACE SLAG (GGBFS) IS PERMITTED AND SHALL CONFORM TO ASTM C989, BUT SHALL NOT EXCEED 15% OF CEMENTITIOUS CONTENT BY WEIGHT INDICATED ABOVE ON A SUBSTITUTION BASIS AND SHALL BE INCLUDED IN THE WATER-TO-CEMENT RATIO. IF GGBFS IS USED, THE MIX DESIGN SUBMITTALS SHALL HAVE TESTS USING THE SAME AMOUNT OF GGBFS. THE CONTRACTOR'S SCHEDULE SHALL ACCOUNT FOR THE USE OF GGBFS.
   E. CONCRETE USED FOR FLOORS SHALL HAVE 1800 PSI, 3 DAY STRENGTH. MIXES TO BE PUMPED SHALL BE SO IDENTIFIED ON THE MIX DESIGN SUBMITTAL. ALL PUMPED MIXES SHALL HAVE A MID-RANGE OR HIGH-RANGE WATER REDUCER.
   F. ALL ADMIXTURES OTHER THAN SUPERPLASTICIZERS SHALL BE ADDED AT THE BATCH PLANT. SUPERPLASTICIZERS, DESIGNED FOR ADDITION TO THE MIX AT THE PLANT, MAY BE ADDED AT THE BATCH PLANT WITH VERIFICATIONS FROM THE STRUCTURAL ENGINEER AND VERIFICATIONS THAT THE WATER-TO-CEMENT RATIO HAS NOT BEEN EXCEEDED. SUPERPLASTICIZERS ADDED AT THE SITE SHALL BE SENT IN PRE-MEASURED CONTAINERS FROM THE BATCH PLANT.
   G. ALL CONCRETE USED FOR CAST-IN-PLACE CONCRETE SLABS SHALL CONTAIN THE SPECIFIED WATER REDUCING OR WATER REDUCING/RETARDING ADMIXTURE. ALL CONCRETE SLABS, PLACED AT AIR TEMPERATURE BELOW 50° F SHALL CONTAIN THE SPECIFIED NON-CORROSIVE, NON-CHLORIDE ACCELERATOR. ALL CONCRETE PLACED AT AIR TEMPERATURE ABOVE 80° SHALL CONTAIN SPECIFIED WATER-REDUCING/RETARDER ADMIXTURE. ALL CONCRETE REQUIRED TO BE AIR-ENTRAINED SHALL CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE. ALL PUMPED CONCRETE SHALL CONTAIN THE SPECIFIED HIGH-RANGE WATER-REDUCING ADMIXTURE. CONCRETE WITH A WATER-CEMENT RATIO ABOVE 0.40 TO 0.60 SHALL CONTAIN THE SPECIFIED WATER REDUCER.
   H. ALL CONCRETE REQUIRING A HIGH SLUMP FOR PLACEMENT (I.E. PUMPING, DRILLED PIERS, ETC.) SHALL CONTAIN MID-RANGE AND HIGH-RANGE SUPERPLASTICIZER. INCREASED SLUMP MAY NOT BE ACHIEVED BY EXCEEDING THE SPECIFIED MAXIMUM WATER CEMENT RATIO. MAXIMUM SLUMP IS 8 INCHES WITH USE OF WATER REDUCING ADMIXTURE (ASTM C494).
   I. CALCIUM CHLORIDE SHALL NOT BE PERMITTED NOR SHALL ANY ADMIXTURE CONTAINING CALCIUM CHLORIDE BE PERMITTED.
6. NORMAL WEIGHT AGGREGATE: ASTM C33, FROM A SINGLE SOURCE.
7. AIR-ENTRAINING ADMIXTURE: ASTM C260
8. WATER-REDUCING ADMIXTURE: ASTM C494, TYPE A, CONTAINING NOT MORE THAN 0.1% CHLORIDE IONS.

CONCRETE - CONT

9. HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): ASTM C494, TYPE F OR G, CONTAINING NOT MORE THAN 0.1% CHLORIDE IONS.
10. WATER-REDUCING, NON-CHLORIDE ACCELERATING ADMIXTURE: ASTM C494, TYPE E, CONTAINING NOT MORE THAN 0.1% CHLORIDE IONS.
11. WATER-REDUCING, RETARDING ADMIXTURE: ASTM C494, TYPE D, CONTAINING NOT MORE THAN 0.1% CHLORIDE IONS.
12. CERTIFICATION: UPON ENGINEER'S REQUEST, PROVIDE ADMIXTURE MANUFACTURER'S WRITTEN CERTIFICATION THAT CHLORIDE ION CONTENT COMPLIES WITH SPECIFIED REQUIREMENTS.
13. CURING COMPOUND: LIQUID MEMBRANE-FORMING TYPE (SODIUM SILICATE TYPE NOT APPROVED) MEETING ALL REQUIREMENTS OF ASTM C309, TYPE 1-D CLEAR OR TRANSLUCENT, HAVING A FUGITIVE DYE TO FACILITATE VISUAL CHECK OF COVERAGE. USE OF TYPE 2 WHITE PIGMENTED TYPE IS RECOMMENDED DURING HOT WEATHER.
14. MOISTURE-RETAINING SHEET MATERIALS: ANY OF THE TYPES LISTED IN AND MEETING REQUIREMENTS OF ASTM C171: WATERPROOF PAPER, 4 MIL. (0.004") POLYETHYLENE FILM, WHITE BURLAP/POLYETHYLENE SHEET.
15. SEALING MATERIALS: FOR LAPS IN SHEET COVER, PROVIDE PRESSURE SENSITIVE TAPE, NON-STAINING MASTIC, OR OTHER EFFECTIVE ADHESIVE RECOMMENDED BY COVERING MANUFACTURER.
16. WATERSTOPS: PROVIDE FLAT, DUMBBELL TYPE OR CENTERBULB TYPE WATERSTOPS AT CONSTRUCTION JOINTS AND OTHER JOINTS AS INDICATED, SIZED TO SUIT JOINTS, EITHER RUBBER, CORPS OF ENGINEERS (CE) CRD-C 513, OR POLYVINYL CHLORIDE (PVC), CE CRD-C 572.
17. PREMOLDED JOINT FILLER: FOR USE IN EXPANSION OR ISOLATION JOINTS, SIZE ½" THICK X FULL DEPTH OF SLAB; EITHER ASTM D1751 OR D1752, AND COMPATIBLE WITH TYPE OF JOINT SEALANT USED.
18. MOISTURE BARRIER: POLYETHYLENE SHEET NOT LESS THAN 10 MILS THICK, WHICH COMPLIES WITH ASTM E 1745, CLASS C.
19. DOVETAIL SLOTS: DOVETAIL SLOTS CAST INTO CONCRETE FOR ANCHORAGE OF OTHER MATERIALS SHALL BE FORMED OF NOT LESS THAN 24 GAUGE ZINC-COATED STEEL WITH 1 INCH WIDE BY 1 INCH DEEP BY 5/8" WIDE THROAT, FURNISHED WITH FELT OR FIBER FILLERS, OF LENGTHS REQUIRED BY INSTALLATION.
20. BOND BREAKER FELT: 15# FELT.
21. ALL PIPE SLEEVE OPENINGS THROUGH CONCRETE SLABS SHALL BE FORMED WITH STANDARD STEEL PIPE.
22. NO ELECTRICAL CONDUIT SHALL BE PLACED ABOVE THE WELDED WIRE FABRIC OR TOP REINFORCING OF SLABS.
23. ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH TWO COATS COAL TAR EPOXY, APPROVED BY THE ARCHITECT, UNLESS OTHERWISE NOTED.
24. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1 1/2 HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE PERMITTED. ALL WATER MUST BE ADDED AT THE BATCH PLANT. SLUMP MAY BE ADJUSTED ONLY THROUGH THE USE OF ADDITIONAL WATER REDUCING ADMIXTURE OR HIGH RANGE WATER REDUCING ADMIXTURE.
25. ALL CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS, EXCEPT WHERE SPECIFICALLY NOTED. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH VERTICAL CONSTRUCTION JOINTS.
26. CONSTRUCTION JOINT LOCATIONS OTHER THAN SHOWN ON THE DRAWINGS ARE PERMITTED SUBJECT TO PRIOR APPROVAL OF THE ENGINEER. EXPANSION JOINT AND CONTROL JOINT LOCATIONS ARE MANDATORY AS SHOWN. CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING INTENDED PLACING SEQUENCES AND LOCATION OF CONSTRUCTION JOINTS TO THE ENGINEER FOR APPROVAL. AT POURED IN PLACE WALLS, CONSTRUCTION JOINTS SHALL BE LOCATED SO AS TO PROVIDE A 60'-0" MAXIMUM HORIZONTAL LENGTH OF CONCRETE PLACEMENT IN ANY DIRECTION.
27. ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED 3/4" UNLESS SHOWN OTHERWISE ON ARCHITECTURAL DRAWINGS.
28. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, MASONRY ANCHORS, AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
29. THE PLACEMENT OF SLEEVES, OUTLET BOXES, BOX-OUTS, ANCHORS, ETC., FOR THE MECHANICAL, ELECTRICAL, AND PLUMBING TRADES IS THE RESPONSIBILITY OF THE TRADE INVOLVED; HOWEVER, ANY BOX-OUTS NOT COVERED BY TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
30. REINFORCING STEEL S

CONCRETE - CONT

1. FORM WORK FOR STRUCTURAL ELEMENTS SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED 75% OF ITS DESIGN STRENGTH.
2. HOT WEATHER PLACING: COMPLY WITH ACI 305.

MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE

1. 4000 PSI NORMAL WEIGHT CONCRETE, Fy=GRADE 60, NON-COATED BAR

	TOP BARS		OTHER BARS		
BAR SIZE	LAP	ANCHORAGE	BAR SIZE	LAP	ANCHORAGE
#3	24"	19"	#3	19"	15"
#4	33"	25"	#4	25"	19"
#5	41"	31"	#5	31"	24"
#6	49"	37"	#6	37"	29"
#7	71"	54"	#7	54"	42"
#8	81"	62"	#8	62"	48"

2. WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BAR. USE WHICHEVER DIMENSION IS LARGER.

MINIMUM CONCRETE COVER FOR REINFORCING

1. CONCRETE REINFORCING SHALL BE PLACED PER THE TOLERANCES OF ACI 117 AND ACI 318 AS REFERENCED IN APPLICABLE BUILDING CODE REGARDING MINIMUM COVER.
2.

LOCATION		MINIMUM COVER
FOOTINGS AND GRADE BEAMS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3"
SLAB ON GRADE W.W.F. AND SLAB ON COMPOSITE DECK (W.W.F.)		1/3 SLAB THICKNESS FROM TOP OF SLAB
INTERIOR SLAB AND STAIRS		3/4"
EXTERIOR SLAB AND STAIRS	#5 AND SMALLER	1 1/2"
	#6 AND LARGER	2"
WALLS INTERIOR FACE		3/4"
WALLS EXTERIOR FACE	#5 AND SMALLER	1 1/2"
	#6 AND LARGER	2"
COLUMNS AND PIERS (VERT. REINF.)		2"
COLUMN AND PIER TIES		1 1/2"

1. MAXIMUM DEVIATION FROM THE ABOVE REQUIREMENTS SHALL BE ±1/4 INCH FOR SECTIONS 10 INCHES THICK OR LESS; AND ±1/2 INCH FOR SECTIONS OVER 10 INCHES THICK. SEE ACI 318 LISTED IN THE APPLICABLE BUILDING CODE REFERENCE STANDARDS, SECTION 7.7.1 FOR CONDITIONS NOT LISTED.

FLOOR FINISH

1. INTERIOR FLOOR SLABS: MACHINE TROWEL UNLESS NOTED OTHERWISE.
2. EXTERIOR SLAB AREAS: LIGHT FLEXIBLE BRISTLE BROOM UNLESS NOTED OTHERWISE.
3. PROVIDE ACI 'CLASS A' TOLERANCE, 1/8" VARIATION IN 10 FEET, MEASURED WITH A STRAIGHT EDGE LAID IN ANY DIRECTION.
4. CONTROL JOINTS IN SLABS ON GRADE: CONTROL JOINTS IN SLABS ON GRADE SHALL BE PROVIDED AT THE LOCATIONS INDICATED ON THE DRAWINGS. JOINTS SHALL BE MADE BY SAW CUTTING 0-2 HOURS AFTER THE FINAL FINISH AT EACH JOINT LOCATION USING THE EARLY-ENTRY DRY-CUT PROCESS PER ACI 302.1 R. JOINT DEPTH SHALL BE PER DRAWING DETAIL. THE SAW SHALL USE A DIAMOND-IMPREGNATED BLADE AND EMPLOY THE USE OF A SKID PLATE TO PREVENT SPALLING AND RAVELING OF THE SLAB. APPROVED SUPPLIER: SOFF-CUT INTERNATIONAL OR EQUAL.

CURING

1. CURING COMPOUND SHALL BE PROVIDED AS PRESCRIBED ON ARCHITECTURAL DRAWINGS BASED ON FLOOR USE. COORDINATE FOR COMPATIBILITY OF FINISH MATERIAL.
2. MOISTURE-RETAINING SHEET MATERIAL MEETING ASTM C171 MAY BE USED.
3. MAINTAIN INITIAL CURING FOR 12 HOURS AFTER FINISHING, 24 HOURS FOR AIR TEMPERATURE OF 75 DEGREES F AND ABOVE.

SUBMITTALS

1. PRODUCT DATA: SUBMIT DATA FOR PROPRIETARY MATERIALS AND ITEMS INCLUDING ADMIXTURES, PATCHING COMPOUNDS, WATERSTOPS, JOINT SYSTEMS, CURING COMPOUNDS, FINISH MATERIALS, AND OTHERS AS REQUESTED BY ARCHITECT/ENGINEER.
2. SHOP DRAWINGS/REINFORCEMENT: SEE ACI 301, SECTION 3.1 DETAILING SHALL CONFORM TO ACI 315, AS REFERENCED IN APPLICABLE BUILDING CODE, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
3. SHOP DRAWING SUBMITTALS SHALL CONSIST OF 3 PRINTS OF EACH DRAWING FOR THE STRUCTURAL ENGINEER, 1 PRINT FOR THE ARCHITECT AND A MINIMUM OF 1 PRINT FOR THE GENERAL CONTRACTOR.
4. MIX DESIGN: SUBMIT MIX DESIGNS FOR EACH CONCRETE MIX FOR THE PROJECT PER CHAPTER 5 OF ACI 318. MIX DESIGNS SHALL INCLUDE ALL BACK UP MATERIAL WITH COMPRESSIVE STRENGTH BREAKS BASED ON FIELD EXPERIENCE OR BREAKS FROM A TRIAL MIX PER CHAPTER 5.

QUALITY ASSURANCE

1. MOLD AND CURE THREE SPECIMENS (CYLINDERS) IN ACCORDANCE WITH ASTM C31. THREE SPECIMENS CONSTITUTE A STRENGTH TEST. TEST ONE CYLINDER AT 7 DAYS AND 2 AT 28 DAYS. ACCEPTANCE OF STRUCTURE WILL BE BASED ON RESULTS OF 28-DAY TESTS.
2. OBTAIN AT LEAST ONE SET OF CYLINDERS FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF, OF EACH CONCRETE MIXTURE PLACED IN ANY ONE DAY.
3. AIR CONTENT
   A. DETERMINE AIR CONTENT OF CONCRETE FOR EACH STRENGTH. TEST BY EITHER THE PRESSURE METHOD (ASTM C231) OR THE VOLUMETRIC METHOD (ASTM C173). THE "CHASE" AIR INDICATOR SHALL NOT BE USED.
   B. A MINIMUM OF ONE AIR CONTENT TEST SHALL BE MADE IN THE MORNING AND ONE IN THE AFTERNOON. AIR CONTENT TESTS SHALL BE MADE ON ALL CONCRETE WHETHER THE CONCRETE IS DESIGNATED AS AIR-ENTRAINED OR NOT.
   C. ADDITIONAL AIR CONTENT TESTS, FOR CONCRETE SPECIFIED AS AIR-ENTRAINED, SHALL BE MADE WHEN ANY OF THE FOLLOWING CONDITIONS OCCUR:
      - A CHANGE IN APPEARANCE OR CONSISTENCY OF CONCRETE.
      - POSSIBLE REDUCTION OF AIR CONTENT DUE TO TIME DELAYS OF TRUCK AND/OR HOT WEATHER
      - WHEN AIR TEMPERATURE IS OVER 80°F, CHECK EACH TRUCK LOAD.
4. SLUMP TEST: PERFORM SLUMP TEST ON EACH TRUCK LOAD OF CONCRETE.
5. INFORM ENGINEER IMMEDIATELY OF ANY SLUMP AND/OR AIR CONTENT TESTS THAT DO NOT MEET THESE SPECIFICATIONS. IF STRENGTH, DURABILITY OR AESTHETICS OF THE STRUCTURE WOULD BE IMPAIRED, THAT CONCRETE SHALL NOT BE USED.
6. CONCRETE TEST REPORTS SHALL CONTAIN THE FOLLOWING INFORMATION: CONCRETE SUPPLIER, QUANTITY OF CONCRETE REPRESENTED, LOCATION OF SAMPLES TAKEN, DESIGN STRENGTH REQUIREMENT AT 28 DAYS, LIST OF ALL MATERIALS AND ADMIXTURES USED WITH QUANTITY AND BRAND OR SOURCE, ACTUAL SLUMP, ACTUAL AIR CONTENT, AIR TEMPERATURE, CONCRETE TEMPERATURE, WEATHER, CYLINDER WEIGHT AS RECEIVED, DATE MOLDED, NUMBER OF DAYS ON JOB SITE, DATE TESTED, TEST RESULTS FOR 7 AND 28 DAYS, AND ANY OTHER INFORMATION NECESSARY TO EVALUATE TEST RESULTS.
7. SEND ONE COPY OF REPORTS ON ALL REQUIRED LABORATORY TESTING DIRECTLY TO THE STRUCTURAL ENGINEER, TWO COPIES TO THE ARCHITECT, ONE COPY TO THE CONTRACTOR AND ONE COPY TO THE CONCRETE SUPPLIER. A COPY OF ALL TEST REPORTS SHALL BE IN THE ENGINEER'S OFFICE WITHIN A MAXIMUM OF FIVE (5) WORKING DAYS FROM DATE OF TEST OR INSPECTION.
8. ACCEPTANCE OF STRUCTURE: IF 28-DAY TEST RESULTS DO NOT MEET REQUIREMENTS, THE ENGINEER SHALL HAVE THE RIGHT TO ORDER A CHANGE IN MIX PROPORTIONS FOR REMAINING PORTIONS OF STRUCTURE. HE MAY REQUIRE CORE TESTS TO BE MADE AT CONTRACTOR'S EXPENSE. ANY SUCH TESTING SHALL BE DONE BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE ENGINEER.

MASONRY

1. ALL MASONRY SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602) AS REFERENCED IN THE APPLICABLE BUILDING CODE.
2. ALL BRICK AND CONCRETE MASONRY AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INDUSTRY ASSOCIATION (BIA) AND THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED AS REFERENCED IN THE APPLICABLE BUILDING CODE.
3. GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS.
4. CONCRETE MASONRY UNITS (CMU) SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90.
5. ASTM C270 TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY. MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'M)=2000 PSI UNLESS NOTED OTHERWISE.
6. WHEN STRUCTURAL REINFORCEMENT IS INCORPORATED IN MASONRY CEMENT MORTAR, THE MAXIMUM AIR CONTENT SHALL BE 18%.
7. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
8. ALL MASONRY UNITS SHALL HAVE GALVANIZED HORIZONTAL JOINT REINFORCEMENT AS FOLLOWS:
   A. 9 GA. SIDE AND CROSS RODS (LADDER TYPE) SPACED 16" O.C. VERTICALLY.
   B. 9 GA. SIDE AND CROSS RODS (LADDER TYPE) SPACED 8" O.C. VERTICALLY IN PARAPETS.
9. LAP JOINT REINFORCING AS SHOWN IN THE TABLE BELOW.

WIRE JOINT REINFORCING	SPLICE LENGTH
a. W1.1 (11 ga.)	6"
b. W1.7 (9 ga.)	7"
c. W2.1 (8 ga.)	8"
d. W2.8 (3/16 wire)	9"
e. W4.9 (1/4 wire)	12"

10. ALL CORES WITH REINFORCEMENT SHALL BE FILLED SOLID WITH GROUT. ALL GROUT SHALL BE CONSOLIDATED IN PLACE BY VIBRATION TO ENSURE COMPLETE FILLING OF CELLS.
11. PLACE REINFORCING BARS BEFORE GROUTING. PLACE GROUTS IN LIFTS NOT EXCEEDING 5 FEET. CONSOLIDATE EACH LIFT BY MECHANICAL VIBRATION. THE NEXT LIFT OF THE POUR MAY BE MADE AFTER THE INITIAL WATER LOSS AND RECONSOLIDATION OF THE PRIOR LIFT, WHILE IT IS STILL PLASTIC.
12. PROPERLY SECURE REINFORCING BARS TO MAINTAIN THE POSITIONS INDICATED ON THE DRAWINGS. BARS TO BE LOCATED IN CENTER OF CELLS UNLESS OTHERWISE NOTED.
13. MORTAR PROTRUSIONS, EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND FILLED, SHALL BE REMOVED.
14. LAY MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN STARTING COURSE OF FOOTING AND IN ALL COURSES OF COLUMN AND PILASTERS, AND WHERE ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE GROUT.
15. GROUT ONE (1) COURSE OF MASONRY SOLID UNDER ALL WALL BEARING SLABS.
16. PROVIDE 16" OF SOLID MASONRY UNDER WALL BEARING BEAMS AND JOIST GIRDERS UNLESS NOTED OTHERWISE.
17. ALL CORNERS TO BE TIED BY MASONRY BOND.
18. GROUT CORES SOLID A MINIMUM OF ONE COURSE BELOW ANY CHANGE IN WALL THICKNESS.
19. PROVIDE 8" SOLID MASONRY 24" WIDE MINIMUM UNDER WALL BEARING JOISTS.
20. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 25'. COORDINATE WITH LOCATIONS INDICATED ON ARCHITECTURAL DRAWINGS. CONTROL JOINTS SHALL EXTEND THROUGH THE ENTIRE WALL THICKNESS, EXCEPT AT CONTINUOUS BOND BEAMS AT THE ROOF LINE THE MASONRY SHALL BE SCORED ONLY.
21. ALL CMU SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION FOR THE GOVERNING BUILDING CODE FOR LATERAL DESIGN LOADS UNTIL PERMANENT RESTRAINTS HAVE BEEN INSTALLED. TEMPORARY BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRS RESULTING FROM IMPROPER OR INSUFFICIENT BRACING.
22. THE COLLAR JOINT IN MULTI-WYTHE WALLS BELOW GRADE SHALL BE FULLY GROUTED AS THE WALL IS CONSTRUCTED.
23. CMU WALLS 12" OR LESS IN WIDTH SHALL BE SINGLE-WYTHE. CMU WALLS GREATER THAN 12" WIDE MAY BE CONSTRUCTED AS MULTI-WYTHE, PROVIDED THAT THE COLLAR JOINT IS CONTINUOUSLY GROUTED SOLID AND CONTINUOUS HEADER COURSE IS LOCATED AT 40" O.C. MAXIMUM VERTICALLY AND OVERLAYS THE SINGLE-WYTHE COLLAR JOINT 3" MINIMUM. USE SINGLE-WYTHE FOR WALLS GREATER THAN 12" AND EXPOSED TO VIEW.
24. MISCELLANEOUS STEEL LINTEL SCHEDULE
   A. FOR MASONRY WALLS 8" OR THICKER OR MASONRY VENEER AND STEEL STUDS:
      a. FOR OPENINGS UP TO 4'-0" USE L3 1/2X3 1/2X5/16.
      b. FOR OPENINGS FROM 4'-0" TO 5'-0" USE L4X3 1/2X5/16 LLV.
      c. FOR OPENINGS FROM 5'-0" TO 6'-0" USE L5X3 1/2X5/16 LLV.
      d. FOR OPENINGS FROM 6'-0" TO 7'-0" USE L6X3 1/2X5/16 LLV.
      e. FOR OPENINGS FROM 7'-0" TO 10'-0" USE W8X21-6/16" BOTTOM PLATE.
      f. USE ONE ANGLE FOR EACH 4" WYTHE OF MASONRY.
   B. FOR WALLS 8" OR THICKER, ANGLES SHALL BE ORIENTED WITH VERTICAL LEGS BACK-TO-BACK.
   C. ALL LINTELS SHALL HAVE A BEARING AT EACH END OF 1 INCH PER FOOT OF OPENING WITH A MINIMUM OF 6".
   D. ALL LINTELS SHALL BEAR ON 16" SOLID MASONRY EXTENDING 16" BEYOND END OF LINTEL.
   E. ALL LINTELS ON THE BUILDING EXTERIOR SHALL BE GALVANIZED.
   F. WHERE SUFFICIENT BEARING IS NOT AVAILABLE, PROVIDE ATTACHMENT OF THE LINTEL TO THE STRUCTURE.
   G. REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MASONRY WALL OPENING LENGTHS AND LOCATIONS.
25. QUALITY ASSURANCE

AN INDEPENDENT TESTING LABORATORY SHALL BE RETAINED TO PERIODICALLY INSPECT AND PERFORM MATERIAL TESTING OF MASONRY MATERIALS AND CONSTRUCTION TO CONFORM WITH THE BUILDING CODE AND THE FOLLOWING:

MINIMUM TESTS AND SUBMITTALS

CERTIFICATES FOR MATERIALS USED IN MASONRY CONSTRUCTION INDICATING COMPLIANCE WITH THE CONTRACT DOCUMENTS.

VERIFICATION OF SPECIFIED MASONRY COMPRESSIVE STRENGTH (F'M) IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B 'SPECIFICATION FOR MASONRY STRUCTURES' (TMS 602) PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402).

SEE SPECIAL INSPECTION SECTION FOR LEVEL 2 REQUIRED INSPECTIONS.

AN INDEPENDENT TESTING LABORATORY SHALL BE RETAINED TO PERIODICALLY INSPECT AND PERFORM MATERIAL TESTING OF MASONRY MATERIALS AND CONSTRUCTION TO CONFORM WITH THE BUILDING CODE AND MINIMUM TESTING AND SUBMITTALS LISTED IN TABLE 4, TABLE 5 OF SPECIAL INSPECTIONS SECTION.

STEEL JOISTS

1. STEEL JOIST DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST SPECIFICATIONS AND CODE OF STANDARD PRACTICE OF THE STEEL JOIST INSTITUTE, THE REQUIREMENTS OF OSHA SECTION 1926.757, OR AS SHOWN ON THE DRAWINGS. ALL JOIST GIRDERS TO CONFORM TO LATEST EDITION OF AISC AND SJI SPECIFICATIONS. JOIST GIRDER SUPPLIER SHALL SUPPLY A COPY OF ALL GIRDER CALCULATIONS AND SECTION PROPERTIES WITH SHOP DRAWINGS. JOISTS SHOWN AS "SPECIAL" JOISTS ON THE DRAWINGS SHALL BE DESIGNED FOR THE LOAD DIAGRAMS SHOWN.
2. ALL STEEL JOISTS SHALL RECEIVE ONE STANDARD SHOP COAT OF WHITE OR LIGHT GRAY OXIDE PAINT UNLESS NOTED OTHERWISE ON DRAWINGS. ASPHALTIC PAINTS ARE NOT ACCEPTABLE.
3. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO RESIST NET UPLIFT FORCES SHOWN AT BEGINNING OF GENERAL NOTES.
4. STEEL JOISTS AND JOIST GIRDERS SHALL BE COATED WITH A SPRAY FIRE-RESISTANT COATING. JOISTS AND JOIST GIRDERS SHALL BE FURNISHED UNPRIMED.
5. ENDS OF EVERY JOIST WHICH RESTS ON STEEL SUPPORTS SHALL BE WELDED PER SJI REQUIREMENTS.

STEEL JOISTS - CONT.

6. GENERAL CONTRACTOR SHALL VERIFY ALL STRUCTURAL STEEL JOIST LOCATIONS, MECHANICAL UNIT WEIGHTS AND OPENING SIZES AND LOCATIONS WITH MECHANICAL CONTRACTOR AND VENDOR'S DRAWINGS FOR ACTUAL MECHANICAL UNITS PURCHASED.
7. NO LIGHT GAGE FRAMING, MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT SHALL BE SUSPENDED FROM OR ATTACHED TO ANY INTERIOR BRIDGING.
8. FIELD MODIFICATIONS TO JOISTS ARE PROHIBITED WITHOUT THE WRITTEN CONSENT FROM THE JOIST MANUFACTURER. THE CONTRACTOR SHALL COPY THE ARCHITECT AND ENGINEER ON ALL CORRESPONDENCE.
9. EXTENDED ENDS: PROVIDE EXTENDED ENDS ON JOISTS WHERE SHOWN, COMPLYING WITH MANUFACTURER'S STANDARDS AND REQUIREMENTS OF APPLICABLE SJI SPECIFICATIONS AND LOAD TABLES.
10. WHERE LIGHTING, DUCTWORK OR MECHANICAL EQUIPMENT IS LOCATED IN JOIST SPACES, CONTRACTOR SHALL REMOVE HORIZONTAL AND/OR DIAGONAL BRIDGING INTERFERING WITH DUCT OR EQUIPMENT INSTALLATION ONCE JOISTS ARE ERECTED AND DECK IS INSTALLED. ONCE DUCTWORK OR EQUIPMENT IS INSTALLED, HORIZONTAL BOTTOM CHORD BRIDGING SHALL BE REINSTALLED. COORDINATE ALL PROPOSED REMOVAL LOCATION WITH E.O.R. AND JOIST SUPPLIER PRIOR TO REMOVING.

STRUCTURAL STEEL

1. DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST AISC SPECIFICATION AS REFERENCED IN THE APPLICABLE BUILDING CODE.

   STRUCTURAL STEEL: (W SHAPES, PLATE GIRDERS) ASTM A992 (FY=50KSI)
   (C SHAPES) ASTM A36 U.N.O.
   (PLATE, ANGLES) ASTM A36 U.N.O.

   HSS: (TUBULAR SHAPES) ASTM A500 GRADE C (FY=50KSI)
   (ROUND SHAPES) ASTM A500 GRADE C (FY=46KSI)

   ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 U.N.O.

   ALL STRUCTURAL STEEL NOT TO RECEIVE FIREPROOFING SHALL BE PRIMED WHITE OR LIGHT GREY; ASPHALTIC PAINTS ARE NOT ACCEPTABLE.

   ALL STRUCTURAL STEEL TO RECEIVE SPRAY FIREPROOFING SHALL REMAIN UNPRIMED.

   ALL COLUMN BASE PLATES SHALL HAVE A MINIMUM OF FOUR ANCHOR RODS.
2. CONNECTIONS SHOWN ON THESE DRAWINGS ARE GENERALLY SCHEMATIC. THEY ARE INTENDED TO DEFINE THE SPATIAL RELATIONSHIP OF THE FRAMED MEMBERS AND SHOW A FEASIBLE METHOD OF MAKING THE CONNECTION. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE FABRICATOR. DETAILS AND CONNECTIONS MAY BE DESIGNED TO CONFORM TO AISC STEEL CONSTRUCTION MANUAL, AS REFERENCED PER APPLICABLE BUILDING CODE. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE SHOP DETAIL DRAWINGS:
   A. ALL PLATE DIMENSIONS AND GRADE.
   B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.
   C. ALL HOLE SIZES AND SPACINGS.
   D. NUMBER AND TYPE OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.
   E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR CONNECTION.
   F. METHOD OF DESIGN.
3. SUBMIT CALCULATIONS STAMPED AND SIGNED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED FOR ALL MOMENT CONNECTIONS THAT ARE NOT COMPLETELY DETAILED (FLEXIBLE AND FULLY RESTRAINED MOMENT CONNECTIONS).
4. DETAILS AND CONNECTIONS COMPLETELY DETAILED IN THE CONTRACT DRAWINGS MAY NOT BE ALTERED WITHOUT WRITTEN APPROVAL BY THE ENGINEER. WHERE APPROVED, ALTERED CONNECTIONS SHALL BE COMPLETELY DETAILED BY THE FABRICATOR'S ENGINEER CLEARLY ON THE SHOP DRAWINGS.
5. ALTERATIONS OF SCHEMATIC CONNECTION DETAILS MAY IMPACT ARCHITECTURAL CONCEPT AND SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
6. MINIMUM CONNECTION PLATE THICKNESS SHALL BE 3/8", UNLESS OTHERWISE INDICATED IN THE CONTRACT DRAWINGS.
7. FOR W AND C SHAPES, UNLESS OTHERWISE NOTED, BEAM TO BEAM CONNECTIONS AND BEAM TO COLUMN CONNECTIONS SHALL BE ONE OF THE FOLLOWING DOUBLE ANGLE (T MIN=5/16") FRAMED BEAM CONNECTIONS:
   A. SHOP WELDED PER TABLE 10-3, AISC MANUAL, AS REFERENCED IN THE APPLICABLE BUILDING CODE FOR USING WELD A, AND USING 3/4" DIAMETER ASTM 325-N BOLTS IN STANDARD OR HORIZONTALLY SLOTTED HOLES FOR THE FIELD CONNECTION.
   B. ALL BOLTED CONNECTIONS PER TABLE 10-1, AISC MANUAL AS REFERENCED IN THE APPLICABLE BUILDING CODE. CONTROLLING STRENGTH OF CONNECTION SHALL BE LEAST OF BOLT / ANGLE STRENGTH OR BEAM WEB STRENGTH TAKING INTO ACCOUNT COPED FLANGES.

   THE MINIMUM LENGTH OF CONNECTION ANGLES SHALL BE EQUAL TO ONE-HALF THE DEPTH OF THE MEMBER TO BE SUPPORTED.
8. UNLESS OTHERWISE NOTED, ALL CONNECTIONS AT HSS SECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE AISC "HOLLOW STRUCTURAL SECTIONS CONNECTION MANUAL," SECOND EDITION.
9. WHERE THE REACTIONS OF UNIFORMLY LOADED BEAMS AND GIRDERS ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE MAXIMUM ALLOWABLE UNIFORM LOAD AS INDICATED IN THE LOAD TABLES OF AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN BEAM SIZE AND SPAN. FOR BEAMS AND GIRDERS NOT UNIFORMLY LOADED SEE PLAN FOR REACTIONS; IF NO REACTION IS SHOWN, CONTACT ENGINEER OF RECORD FOR REACTIONS.
10. SLIP CRITICAL BOLTS (FRICTION BOLTS) SHALL BE USED AT THE FOLLOWING LOCATIONS:
    A. MOMENT CONNECTIONS
    B. COLUMN SPLICES
    C. CROSS BRACING CONNECTIONS
11. SLIP CRITICAL BOLTS SHALL BE TIGHTENED PER AISC SPECIFICATIONS.
12. TWIST-OFF TYPE TENSION CONTROL BOLTS ARE NOT PERMITTED TO BE USED AS BEARING BOLTS.
13. ALL OTHER BOLTS NOT DESIGNATED AS SLIP CRITICAL BOLTS SHALL BE CONSIDERED BEARING BOLTS. DO NOT OVER TIGHTEN BEARING BOLTS, ESPECIALLY FOR BEAMS TO SUPPORT CONCRETE SLABS. TIGHTEN BEARING BOLTS TO A SNUG CONDITION ONLY, PER AISC SPECIFICATIONS.
14. ALL MOMENT PLATE CONNECTIONS SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY (AS TABULATED BY THE STEEL CONSTRUCTION, MANUAL PART 12, FIFTEENTH EDITION) OF THE BEAM, UNLESS NOTED OTHERWISE. LOCAL STRESSES AT BOLT HOLES DO NOT GOVERN. ALL CONNECTIONS TO TUBES AND PIPES SHALL USE THRU PLATES UNLESS NOTED OTHERWISE.
15. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS.
16. WORK THESE DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR NAILER HOLES AND ARCHITECTURAL CLEARANCES.
17. GENERAL CONTRACTOR SHALL VERIFY ALL STRUCTURAL BEAM LOCATIONS, MECHANICAL UNIT WEIGHTS AND OPENING SIZES AND LOCATIONS WITH MECHANICAL CONTRACTOR AND VENDOR'S DRAWINGS FOR ACTUAL MECHANICAL UNIT PURCHASED.
18. SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
19. SCREED PLATES, POUR STOPS AND SLAB SUPPORTS AT SLAB OPENINGS, AT SLAB EDGES AND SUPPORTS FOR METAL DECK AROUND COLUMNS SHALL BE FURNISHED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK.
20. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, UNLESS SPECIFICALLY APPROVED IN EACH CASE BY THE STRUCTURAL ENGINEER.
21. ALL HSS SHAPES (ROUND, SQUARE, RECTANGULAR, ETC.) ARE TO HAVE A 1/4" CAP PLATE AT ALL EXPOSED ENDS. CAP PLATES TO BE SEAL WELDED ALL AROUND, UNO. PROVIDE 3/8" Ø WEEP HOLES IN THE CENTER OF THE PLATE.
22. ALL WELD SIZES NOT SHOWN IN DETAILS HEREIN SHALL BE THE MINIMUM REQUIRED SIZE BASED ON THICKNESS OF THE THINNER PART JOINED AS PER AISC FIFTEENTH EDITION, TABLES J2.3 & J2.4. EXCEPTION: AT MEMBER SPLICES WELDS OR BOLTS SHALL DEVELOP FULL STRENGTH OF THE MEMBER OR COMPONENTS BEING CONNECTED.
23. ALL AROUND WELDS INDICATED HEREIN SHALL BE DISCONTINUOUS AT THE FLANGE TIPS OF OPEN SECTIONS.
24. ALL STRUCTURAL STEEL, INCLUDING BASE PLATES AND TOPS OF ANCHOR BOLTS, TO BE EXPOSED TO SOIL ARE TO BE COATED WITH AN APPROVED COAL TAR EPOXY, 16 MILS MINIMUM THICKNESS.

STRUCTURAL STEEL - CONT

25. ANY ALTERATION MADE BY THE DETAILER ON THE STRUCTURAL STEEL SHOP DRAWINGS TO SCHEMATIC OR COMPLETELY DETAILED CONNECTIONS SHOWN ON THE CONTRACT DRAWINGS MUST BE CLEARLY IDENTIFIED BY CLOUDING OR BY DIRECT NOTE ON THE SHOP DRAWING BY THE DETAILER PRIOR TO SUBMISSION TO THE ENGINEER.
26. ANY MEMBER SIZES SHOWN ON THE PLANS, AND CURRENTLY LISTED IN THE AISC STEEL CONSTRUCTION MANUAL LATEST EDITION, WHICH ARE NOT CURRENTLY AVAILABLE MUST BE BROUGHT TO THE ARCHITECT AND STRUCTURAL ENGINEER'S ATTENTION PRIOR TO AWARD OF STEEL CONTRACT. NO CLAIM FOR ADDITIONAL COST WILL BE ACCEPTED AFTER THE AWARD, FOR MEMBER/BUILT UP MEMBER SUBSTITUTIONS FOR THESE SIZES.
27. FILLER BEAMS SHALL BE SPACED EQUALLY BETWEEN ESTABLISHED DIMENSIONS, UNLESS NOTED OTHERWISE.
28. ALL SUPPLEMENTAL STEEL REQUIRED FOR ROOF UNITS AND ROOF OPENINGS OVER 12"X12" TO BE SUPPLIED BY STRUCTURAL STEEL FABRICATOR AND BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST FABRICATOR, MECHANICAL DRAWINGS, AND MECHANICAL EQUIPMENT SUPPLIER.
29. ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE ADJUSTABLE MASONRY ANCHORS AT 2'-0" O.C.
30. HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION THE FOLLOWING STRUCTURAL STEEL MEMBERS
    A. SHELF ANGLES SUPPORTING MASONRY.
    B. LINTELS SUPPORTING SINGLE OR MULTIPLE WYTHE EXTERIOR MASONRY WALLS.
    C. ITEMS IDENTIFIED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. FOR MEMBERS SHOWN TO BE GALVANIZED ALL CONNECTION MATERIALS SHALL ALSO BE GALVANIZED (UNO).
31. CAMBER VALUES SHOWN ON THE PLANS FOR BEAMS AND GIRDERS SHALL BE THE AMOUNT OF CAMBER IN THE MEMBER FOLLOWING ERECTION. CONTRACTOR SHALL VERIFY THAT CAMBER INDICATED ON PLANS CORRESPONDS TO ACTUAL FIELD CONDITIONS PRIOR TO REPLACEMENT OF STRUCTURAL SLAB. CONTRACTOR IS TO NOTE THAT THE STRUCTURAL STEEL BEAMS HAVE BEEN CAMBERED IN AN EFFORT TO LIMIT EXTRA CONCRETE PLACEMENT DUE TO THE DEFLECTION OF THE STRUCTURAL STEEL BEAMS AND GIRDERS. HOWEVER, THE AMOUNT OF ACTUAL CAMBER FOR EACH STRUCTURAL STEEL MEMBER MAY VARY DUE TO MILL OR SHOP TOLERANCE AND BEAMS WITH COMPUTED INITIAL DEFLECTIONS LESS THAN 3/4" ARE NOT CAMBERED AT ALL. THEREFORE, THE CONTRACTOR MAY NOT ASSUME THAT THE CAMBERS INDICATED ELIMINATE THE NEED FOR EXTRA CONCRETE PLACEMENT.
32. THE CONCRETE SLABS AND/OR NON-COMPOSITE STEEL DECKS ARE PART OF THE STABILITY SYSTEM FOR A COMPLETED STRUCTURE. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING TO MAINTAIN STRUCTURAL STEEL IN PROPER POSITION UNTIL PERMANENTLY SECURED. REMOVE TEMPORARY BRACING AND THEIR CONNECTIONS ONLY AFTER

STRUCTURAL STEEL - CONT

3. THE FABRICATOR SHALL USE SPECIAL CARE TO AVOID BENDING, TWISTING OR OTHERWISE DISTORTING OF INDIVIDUAL MEMBERS OR ASSEMBLIES.

4. ERECTION SHALL BE PERFORMED SO AS TO PROVIDE A CLOSE FIT AND NEAT APPEARANCE OF THE STRUCTURE.

5. UNLOADING, HANDLING AND ERECTION SHALL BE EXECUTED WITH CARE TO MINIMIZE DAMAGE TO ANY SHOP PAINT. IF TEMPORARY BRACES OR ERECTION CLIPS ARE USED, UPON REMOVAL, STEEL SURFACES SHALL BE GROUND SMOOTH AND HOLES FILLED WITH WELD METAL OR BODY SOLDER AND SMOOTHED BY GRINDING OR FILING. TOUCH UP ABRASIONS OF THE SHOP COAT SHALL BE PERFORMED BY THE PAINTING CONTRACTOR.

6. PRIMER COATS SHALL BE COMPATIBLE AND MAY BE PART OF THE ARCHITECTURAL PAINT SYSTEM FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL. COORDINATE WITH ARCHITECTURAL REQUIREMENTS.

STEEL STAIRS

1. ALL STAIR LANDINGS, STAIRS AND STAIR SUPPORTS TO BE DESIGNED BY STAIR MANUFACTURER. SUPPLY DESIGN CALCULATIONS AND DRAWINGS STAMPED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED TO THE STRUCTURAL ENGINEER FOR REVIEW. LIVE LOAD 100 PSF. STAIR MANUFACTURER SHALL PROVIDE ALL POSTS, BRACKETS, HANGERS, ETC. TO SUPPORT STAIRS. HANGERS AND POSTS SHALL BE LOCATED IN PARTITION WALLS. POSTS OR HANGERS SHALL LOAD THE STRUCTURE CONCENTRICALLY.

COMPOSITE METAL FLOOR DECKING

1. DECK AND ACCESSORIES SHALL BE GALVANIZED. METAL FLOOR DECKING SHALL SPAN OVER A MINIMUM OF FOUR SUPPORTS. IF LESS THAN FOUR SUPPORTS, THE DECK MANUFACTURER SHALL NOTE ACCORDINGLY ON THE SHOP DRAWINGS FOR ENGINEERS APPROVAL.

2. SEE PLANS FOR COMPOSITE DECK DEPTH AND GAUGE. DESIGN IS BASED ON DECK MANUFACTURED BY VULCRAFT WITH UNSHORED CONSTRUCTION. DECK SUBSTITUTES OF EQUAL DEPTH AND GAUGE ARE PERMITTED PROVIDED THEY HAVE EQUAL OR GREATER UNSHORED SPANNING CAPABILITIES AND LOAD CAPACITY.

3. CONNECTIONS TO STEEL SUPPORTS SHALL BE FUSION TYPE WELDS PERFORMED BY COMPETENT WELDERS WHO HAVE QUALIFIED BY TESTS AS PRESCRIBED BY THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED. DECK SHALL BE PUDDLE WELDED (5/8" DIAMETER MINIMUM) TO THE SUPPORTS AT 12" CENTERS MAXIMUM. SHEAR STUDS, WELDED THROUGH THE DECK MAY REPLACE PUDDLE WELDING. THE FIRST AND THE LAST RIB OF EACH SHEET OF DECKING MUST BE WELDED TO ALL SUPPORTS. AT LAPS, DECK MUST BE WELDED THROUGH ALL THICKNESS. SIDE LAPS SHALL BE MECHANICALLY FASTENED AT A MAXIMUM OF 3'-0" O.C. BETWEEN SUPPORTS.

4. CEILINGS, DUCTWORK AND LIGHTS MAY BE HUNG FROM THE COMPOSITE FLOOR DECK AFTER CONCRETE HAS REACHED 75% OF ITS DESIGN STRENGTH. CONTRACTOR SHALL LIST ALLOWABLE HANGER TAB CAPACITY ON SHOP DRAWINGS. HUNG LOADS SHALL NOT EXCEED TAB CAPACITY.

5. PROVIDE METAL POUR STOP AT ALL EDGES OF CONCRETE CONSTRUCTION (INCLUDING FLOOR OPENINGS) EXCEPT WHERE EDGE ANGLE IS DETAILED. POUR STOP SHALL BE OF GAGE AS RECOMMENDED BY MANUFACTURER FOR SPECIFIC CONDITIONS WITH A MINIMUM OF 20 GA. ATTACH TO DECK WITH #10 TEK SCREWS @ 2'-0" O.C. WHERE NOT CONTINUOUSLY SUPPORTED.

METAL ROOF DECK

1. ALL METAL ROOF DECKING SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE STEEL DECK INSTITUTE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION AND UNDERWRITER REQUIREMENTS (FACTORY MUTUAL, ETC.).

2. DECK THAT IS TO BE ARCHITECURALLY EXPOSED SHALL BE CLEANED, PRETREATED AND PRIMED WITH MANUFACTURERS STANDARD BAKED-ON RUST INHIBITIVE PAINT.

3. DECK AND ACCESSORIES SHALL BE GALVANIZED.

4. NO LIGHT GAUGE FRAMING, MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT SHALL BE SUSPENDED FROM OR ATTACHED TO ANY METAL ROOF DECK.

5. SEE PLANS FOR DECK ATTACHMENT.

SPECIAL INSPECTION

1. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE APPLICABLE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY THE OWNER.

REQUIRED SPECIAL INSPECTIONS

1. IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.

   A. SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION (COMPACTING FILL, SPECIAL GRADING)
   B. STRUCTURAL CONCRETE OVER 2,500 PSI
   C. STRUCTURAL STEEL FABRICATION
   D. FIELD WELDING
   E. HIGH STRENGTH BOLTS
   F. STRUCTURAL MASONRY
   G. DRILLED PIERS

2. SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS AS STATED IN THE APPLICABLE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN THE APPLICABLE BUILDING CODE. THE SPECIAL INSPECTOR SHALL PROVIDE A WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUALITIES. THESE QUALIFICATIONS ARE IN ADDITION TO THE QUALIFICATIONS SPECIFIED IN OTHER SECTIONS OF THE APPLICABLE BUILDING CODE.

3. SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE. SPECIAL INSPECTOR(S) SHALL BE HIRED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES OF PERSONS OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE FORWARDED TO THE BUILDING OFFICIAL FOR APPROVAL. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS REQUIRED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

4. ACCESS FOR SPECIAL INSPECTION: THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS.

5. THE SPECIAL INSPECTOR(S) SHALL:

   A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS.
   B. FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED TO THE ENGINEER AND THE BUILDING DEPARTMENT.
   C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE BUILDING CODE.

6. SPECIAL INSPECTION NOTES:

   A. CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS SPECIFICALLY NOTED BELOW.
   B. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED BY THE APPLICABLE BUILDING CODE AND UNLESS SPECIFICALLY NOTED BELOW.
   C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN ONE WORKING DAY, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.

7. CONTRACTOR RESPONSIBILITY: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

8. STRUCTURAL OBSERVATION: WHERE REQUIRED, THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED BELOW:

   A. STRUCTURAL OBSERVATIONS FOR STRUCTURES: THE STRUCTURAL OBSERVER SHALL VISUALLY OBSERVE REPRESENTATIVE LOCATIONS OF STRUCTURAL SYSTEMS, DETAILS, AND LOAD PATHS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED FOR THOSE STRUCTURES WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXISTS:
      a. THE STRUCTURES IS CLASSIFIED AS RISK CATEGORY III OR IV.
      b. THE STRUCTURE IS A HIGH-RISE BUILDING.
      c. THE STRUCTURE IS ASSIGNED TO SEISMIC DESIGN CATEGORY E, AND IS GREATER THAN TWO STORIES ABOVE THE GRADE PLANE.
      d. SUCH OBSERVATION IS REQUIRED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN.
      e. SUCH OBSERVATION IS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

9. TYPES OF WORK REQUIRING SPECIAL INSPECTION ARE:

   A. STRUCTURAL STEEL ELEMENTS OF BUILDINGS AND STRUCTURES AS REQUIRED BY AISC 360 AS REFERENCED IN THE APPLICABLE BUILDING CODE. EXCEPTIONS ARE AS FOLLOWS:
      a. SPECIAL INSPECTION OF THE STEEL FABRICATION PROCESS SHALL NOT BE REQUIRED WHERE THE FABRICATOR DOES NOT PERFORM ANY WELDING, THERMAL CUTTING, OR HEATING OPERATION OF ANY KIND AS PART OF THE FABRICATION PROCESS. IN SUCH CASES, THE FABRICATOR SHALL BE REQUIRED TO SUBMIT A DETAILED PROCEDURE FOR MATERIAL CONTROL THAT DEMONSTRATES THE FABRICATOR'S ABILITY TO MAINTAIN PUTTABLE RECORDS AND PROCEDURES SUCH THAT, AT ANY TIME DURING THE FABRICATION PROCESS, THE MATERIAL SPECIFICATION, AND GRADE FOR THE MAIN STRESS-CARRYING ELEMENTS ARE CAPABLE OF BEING DETERMINED. MILL TEST REPORTS SHALL BE IDENTIFIABLE TO THE MAIN STRESS-CARRYING ELEMENTS WHEN REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.

   B. STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL AS REQUIRED BY TABLE 2.

   C. CONCRETE CONSTRUCTION AS REQUIRED BY APPLICABLE BUILDING CODE AND TABLE 3. EXCEPTIONS ARE AS FOLLOWS:
      a. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
      b. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
      c. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS, ON GRADE.

   D. MASONRY CONSTRUCTION AS REQUIRED IN THE APPLICABLE BUILDING CODE AND TABLE 4.

   E. SPECIAL INSPECTION FOR EXISTING SITE SOIL CONDITIONS, DURING SITE PREPARATION AND FILL PLACEMENT, TO ENSURE LOAD-BEARING REQUIREMENTS IN COMPLIANCE WITH APPLICABLE BUILDING CODE AND TABLE 6 EXCEPT AS ALLOWED IN APPLICABLE BUILDING CODE.

   F. SPECIAL INSPECTION FOR DEEP DRIVEN FOUNDATIONS, CAST-IN-PLACE DEEP FOUNDATION AND HELICAL PILE FOUNDATIONS AS REQUIRED BY THE APPLICABLE BUILDING CODE AND TABLES 7 & 8.
      a. WHENEVER THERE IS A REASONABLE DOUBT AS TO THE STRUCTURAL INTEGRITY OF A DEEP FOUNDATION ELEMENT, AN ENGINEERING ASSESSMENT SHALL BE REQUIRED. THE ENGINEERING ASSESSMENT SHALL INCLUDE TESTS OF DEFECTS PERFORMED IN ACCORDANCE WITH ASTM D4945, ASTM D5882, ASTM D6760 OR ASTM D7949, OR OTHER APPROVED METHOD.

1. ADDITIONAL TYPES OF WORK REQUIRING SPECIAL INSPECTIONS FOR WIND RESISTANCE DEFINED AS WIND EXPOSURE CATEGORY B, WHERE THE ULTIMATE DESIGN WIND SPEED IS **150 MPH** OR GREATER OR WIND EXPOSURE CATEGORY C OR D, WHERE THE ULTIMATE WIND SPEED IS **140 MPH** OR GREATER.

   A. WIND-RESISTING COMPONENTS PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING SYSTEM AND COMPONENTS.
      a. ROOF CLADDING.
      b. WALL CLADDING.

ABBREVIATIONS

MARK		MARK	
A.B.	ANCHOR BOLT	H.P.	HIGH PIONT
ABV	ABOVE	HT.	HEIGHT
ADD'L	ADDITIONAL	I.D.	INSIDE DIAMETER
AFF	ABOVE FINISH FLOOR	I.F.	INSIDE FACE
ALT	ALTERNATE	INT.	INTERIOR
APPROX	APPROXIMATE	INSUL.	INSULATION
ARCH.	ARCHITECTURAL	J/B	JOIST BEARING
B. PL.	BASE PLATE	JST.	JOIST
BFF	BELOW FINISHED FLOOR	JT.	JOINT
BLDG.	BUILDING	K	KIP
BLK.	BLOCK	L	ANGLE
BM.	BEAM	LAT.	LATERAL
BOD	BOTTOM OF DECK	L.H.	LEFT HAND
BOT.	BOTTOM	LG.	LONG
BRDG.	BRIDGING	L.L.	LIVE LOAD
BRG.	BEARING	L.P.	LOW POINT
BTJ.	BOLTED TIE JOINT	(LLH)	LONG LEG HORIZONTAL
CAP	CAPACITY	(LLV)	LONG LEG VERTICAL
CANT'L.	CANTILEVER	L.W.	LONG WAY
CFS	COLD FORMED STEEL	L.W.C.	LIGHT WEIGHT CONCRETE
C.I.P.	CAST-IN-PLACE	MAT.	MATERIAL
C.J.	CONTROL JOINT	MAS.	MASONRY
CL.	CENTERLINE	MAX.	MAXIMUM
CLR.	CLEAR	MC	MOMENT CONNECTION
CMU	CONCRETE MASONRY UNIT	MECH.	MECHANICAL
COL.	COLUMN	MFR.	MANUFACTURING
CONC.	CONCRETE	MIN.	MINIMUM
CONN.	CONNECTION	MISC.	MISCELLANEUOUS
CONSTR.	CONSTRUCTION	MTL.	METAL
CONT.	CONTINUOUS	(N)	NEW
C.Y.	CUBIC YARD	(NIC)	NOT IN CONTRACT
DBL	DOUBLE	N.A.	NOT APPLICABLE
DBA	DEFORMED BAR ANCHOR	NO / #	NUMBER
DEMO	DEMOLITION / DEMOISH	NOM.	NOMINAL
DET.	DETAIL	N.S.	NEAR SIDE
DIAG.	DIAGONAL	NTS.	NOT TO SCALE
Ø / DIA.	DIAMETER	O.C.	ON CENTER
DJ	DOUBLE JOINT	O.D.	OUTISDE DIAMETER
DK.	DECK	O.F.	OUTSIDE FACE
D.L.	DEAD LOAD	O.H.	OPPOSITE HAND
DWG.	DRAWINGS	O/O	OUT TO OUT
DWLS.	DOWELS	OPP.	OPPOSITE
EA.	EACH	OPNG.	OPENING
E.F.	EACH FACE	PAF	POWDER-ACTUATED FASTENER
E.J.	EXPANSION JOINT	PC	PRECAST CONCRETE
EL. OR ELEV.	ELEVATION	PL.	PLATE
ELV	ELEVATOR	PLCS.	PLACES
ENG	ENGINEER	PRELIM.	PRELIMINARY
EOS	EDGE OF SLAB	PROJ.	PROJECT
E.S.	EACH SIDE	P.S.F.	POUNDS PER SQUARE FOOT
EQ.	EQUAL	P.S.I.	POUNDS PER SQUARE INCH
EQUIP.	EQUIPMENT	QTY.	QUANTITY
E.W.	EACH WAY	R OR RAD.	RADIUS
EXP.	EXPANSION	R.D.	ROOF DRAIN
(E) OR EXIST.	EXISTING	REINF.	REINFORCING
EXP.	EXPANSION	REQ'D	REQUIRED
EXT.	EXTERIOR	RET.	RETAINING
FND.	FOUNDATION	SECT.	SECTION
F.F.	FINISHED FLLOR	SIM.	SIMILAR
F/	FACE OF	S.O.G.	SLAB ON GRADE
F.D.	FLOOR DRAIN	SPA.	SPACE
FIN.	FINISH	SQ.	SQUARE
FLG.	FLANGE	STIFF.	STIFFENER
FLR.	FLOOR	STL.	STEEL
F/BRK.	FACE OF BRICK	STRUCT.	STRUCTURAL
F/CONC.	FACE OF CONCRETE	S.W.	SHORT WAY
F.S.	FAR SIDE OR FOOTING STEP	SYM.	SYSTEM
FT.	FEET	T/	TOP OF
FTG.	FOOTING	TYP.	TYPICAL
GA.	GUAGE	UNO.	UNLESS NOTED OTHERWISE
G.B.	GRADE BEAM	VERT.	VERTICAL
G.C.	GENERAL CONTRACTOR	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	W.P.	WORK POINT
HD'D	HEADED	W.W.F.	WELDED WIRE FABRIC
HORIZ.	HORIZONTAL	W/	WITH

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ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STEVEN S. GRASLEY LICENSE No. 73110 STATE OF FLORIDA PROFESSIONAL ENGINEER
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Completion Date 02/28/2027
Cer# 32645

JOHN PENNEKAMP

Sheet Title: GENERAL NOTES

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: S003

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SPECIAL INSPECTIONS - TABLE 1

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCED STANDARDS:
X	1) MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN AISC 360 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	X	-	
	2) INSPECTIONS PRIOR TO WELDING:			IBC 2012 - AISC 360-10 TABLE N5.4-1 IBC 2018 & 2021 - AISC 360-16 TABLE C-N5.4-1, AWS D1.1
X	a. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X	-	
X	b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	X	
X	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	-	X	
X	d. WELDER IDENTIFICATION SYSTEM	-	X	
X	e. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	-	X	
X	f. CONFIGURATION AND FINISH OF ACCESS HOLES	-	X	
X	g. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	-	X	
X	h. CHECK WELDING EQUIPMENT	X	-	
	3) INSPECTIONS DURING WELDING			IBC 2012 - AISC 360-10 TABLE N5.4-2 IBC 2018 & 2021 - AISC 360-16 TABLE C-N5.4-2, AWS D1.1
X	a. USE OF QUALIFIED WELDERS	-	X	
X	b. CONTROL AND HANDLING OF WELDING CONSUMABLES: - PACKAGING - EXPOSURE CONTROL	-	X	
X	c. NO WELDING OVER CRACKED TACK WELDS	-	X	
X	d. ENVIRONMENTAL CONDITIONS: - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	-	X	
X	e. WPS FOLLOWED: - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAR TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH)	-	X	
X	f. WELDING TECHNIQUES: - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	-	X	
	4) INSPECTIONS AFTER WELDING			IBC 2012 - AISC 360-10 TABLE N5.4-3 IBC 2018 & 2021 - AISC 360-16 TABLE C-N5.4-3, AWS D1.1
X	a. WELDS CLEANED	-	X	
X	b. SIZE, LENGTH, AND LOCATION OF WELDS	X	-	
X	c. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	X	-	
X	d. ARC STRIKES	X	-	
X	e. k-AREA	X	-	
X	f. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	-	
X	g. REPAIR ACTIVITIES	X	-	
X	h. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	-	
X	5) WHEN REQUIRED BE AISC 360 APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHIC OR ULTRASONIC INSPECTION SHALL BE TESTED BY SPECIAL INSPECTOR AS PRESCRIBED IN AISC 360.	X	-	
	6) INSPECTIONS PRIOR TO BOLTING			IBC 2012 - AISC 360-10 TABLE N5.6-1 IBC 2018 & 2021 - AISC 360-16 TABLE C-N5.6-1, RCSC 2014
X	a. MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	-	
X	b. FASTERNERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	-	X	
X	c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	-	X	
X	d. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	-	X	
X	e. CONNECTIONG ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IS SPECIFIED, MEET APPLICABLE REQUIREMENTS	-	X	
X	f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	-	X	
X	g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	-	X	
	7) INSPECTIONS DURING BOLTING			IBC 2012 - AISC 360-10 TABLE N5.6-2 IBC 2018 & 2021 - AISC 360-16 TABLE C-N5.6-2, RCSC 2014
X	a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	-	X	
X	b. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	-	X	
X	c. FASTENER COMPNENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	-	X	
X	d. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TO THE FREE EDGES	-	X	
	8) INSPECTIONS AFTER BOLTING			IBC 2012 - AISC 360-10 TABLE N5.6-3 IBC 2018 & 2021 - AISC 360-16 TABLE C-N5.6-3
X	a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	-	

SPECIAL INSPECTIONS - TABLE 2

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

APPLICABLE TO PROJECT	VERIFICATIONAND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCED STANDARD
	1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
X	a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVAL CONSTRUCTION DOCUMENTS	–	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS
X	b. MANUFACTURER'S CERTIFIED TEST REPORTS	–	X	–
	2. INSPECTION OF WELDING			
X	a. COLD-FORMED STEEL DECK:			
	1) FLOOR AND ROOF DECK WELDS	–	X	AWS D1.3
	b. REINFORCING STEEL			
X	1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	–	X	AWS D1.4 ACI 318: SECTION 3.5.2
X	2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT	X	–	
X	3) SHEAR REINFORCEMENT	X	–	
X	4) OTHER REINFORCING STEEL	–	X	

SPECIAL INSPECTIONS - TABLE 3

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

APPLICABLE TO PROJECT	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODICALLY SPECIAL INSPECTION	REFERENCED STANDARD (A)	IBC REFERENCE
X	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	–	X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
X	2. REINFORCING BAR WELDING:			AWS D1.4 ACI 318:26.6.4	–
	a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	–	X		
	b. INSPECT SINGLE PASS FILLET WELDS MAXIMUM 5/16"	–	X		
	c. INSPECT ALL OTHER WELDS	X	–		
X	3. INSPECT OF ANCHORS CAST IN CONCRETE.	–	X	ACI 318: 17.8.2	
X	4. INSPECT ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS.(B)				
	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	X	–	ACI 318: 17.8.2.4	
	b. MECHANICAL ANCHORS OR ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	–	ACI 318: 17.8.2	
X	5. VERIFY USE OF REQUIRED DESIGN MIX.	X	–	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
X	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE...	X	–	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
X	7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION...	X	–	ACI 318: 26.5	1908.6, 1908.7, 1908.9
X	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X	ACI 318: 29.5.3 - 29.5.5	1908.9
	9. INSPECT OF PRESTRESSED CONCRETE FOR:			ACI 318: 26.10	–
	a. APPLICATION OF PRESTRESSING FORCES	X	–		
	b. GROUTING OF BONDING PRESTRESSING TENDONS.	X	–		
	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	–	X	ACI 318: 26.9	–
	11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	X	–	ACI 318: 26.13.1.3 ACI 550.5	–
	a. INSTALLATION OF THE EMBEDDED PARTS				
	b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS				
	c. COMPLETION OF CONNECTIONS IN THE FIELD				
	12. INSPECT INSTALLATION TOLERANCE OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	–	X	ACI 318: 26.13.1.3	–
	13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	–	X	ACI 318: 26.11.2	
X	14. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED	–	X	ACI 318: 26.11.1.2 (b)	

A. WHERE APPLICABLE, ALSO SEE SECTION 1705.12 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SPECIAL INSPECTIONS - TABLE 4

LEVEL 2 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

APPLICABLE TO PROJECT	MINIMUM VERIFICATION REQUIREMENTS
X	PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.
X	PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND f'aac, EXCEPT WHERE SPECIFICALLY EXTEMPTED BY THE CODE.
X	DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.

MINIMUM SPECIAL INSPECTION

		FREQUENCY (A)		REFERENCE FOR CTITERIA	
	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	TMS 402	TMS 602
	1) AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
X	a. PROPORTION OF THE SITE-PREPARED MORTAR	–	X		ART. 2.1, 2.6 A, & 2.6C
X	b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	–	X		ART. 2.4 B & 2.4 H
X	c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	–	X		ART. 3.4 & 3.6 A
X	d. PRESTRESSING TECHNIQUE	–	X		ART. 3.6 B
X	e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X (b)	X (c)		ART 2.1 C.1
X	f. SAMPLE PANEL CONSTRUCTION	–	X		ART. 1.6 D
	2) PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
X	a. GROUT SPACE	–	X		ART. 3.2 D. 3.2 F
X	b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	–	X	SEC. 10.8 & 10.9	ART. 2.4, 3.6
X	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	–	X	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.2 E & 3.4
X	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	–	X		ART. 2.6 B, 2.4 G.1.b
	3) VERIFY DURING CONSTRUCTION:				
X	a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	–	x		ART. 1.5
X	b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	–	X		ART. 3.3 B
X	c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	x	X		ART. 3.3 F
X	d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	–	X	SEC. 1.2.1(E), 6.2.1, & 6.3.1	
	e. WELDING OF REINFORCEMENT	X	–	SEC. 6.1.6.1.2	
X	f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	–	X		ART. 1.8 C & 1.8 D
	g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	–		ART. 3.6 B
	h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	–		ART. 3.5 & 3.6 C
	i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X (b)	X (c)		ART. 3.3 B.9 & 3.3 F.1.B
X	4) OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	–	X		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

a. FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

b. REQUIRED FOR THE FIRST 5000 SQUARE FEET OF AAC MASONRY.

c. REQUIRED AFTER THE FIRST 5000 SQUARE FEET OF AAC MASONRY.

SPECIAL INSPECTIONS - TABLE 6

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
X	1) VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	–	X
X	2) VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	–	X
X	3) PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	–	X
X	4) DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	–
X	5) PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	–	X

SPECIAL INSPECTIONS - TABLE 8

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
X	1) INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	–
X	2) VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	–
X	3) FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	

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SYMBOL	REVISION	DATE

ISSUE DATE: 05/30/2025
COMP. FILE No.: 00000000
STATE PROJECT No.: CN667

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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Steven S. Grasley, License # 73110
Expiration Date 02/28/2027
CA # 30645

JOHN PENNEKAMP

Sheet Title: SPECIAL INSPECTIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: S004

PLOTTED: 12/12/2025 3:46:53 PM

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COLUMN FOOTING SCHEDULE 3000 PSF

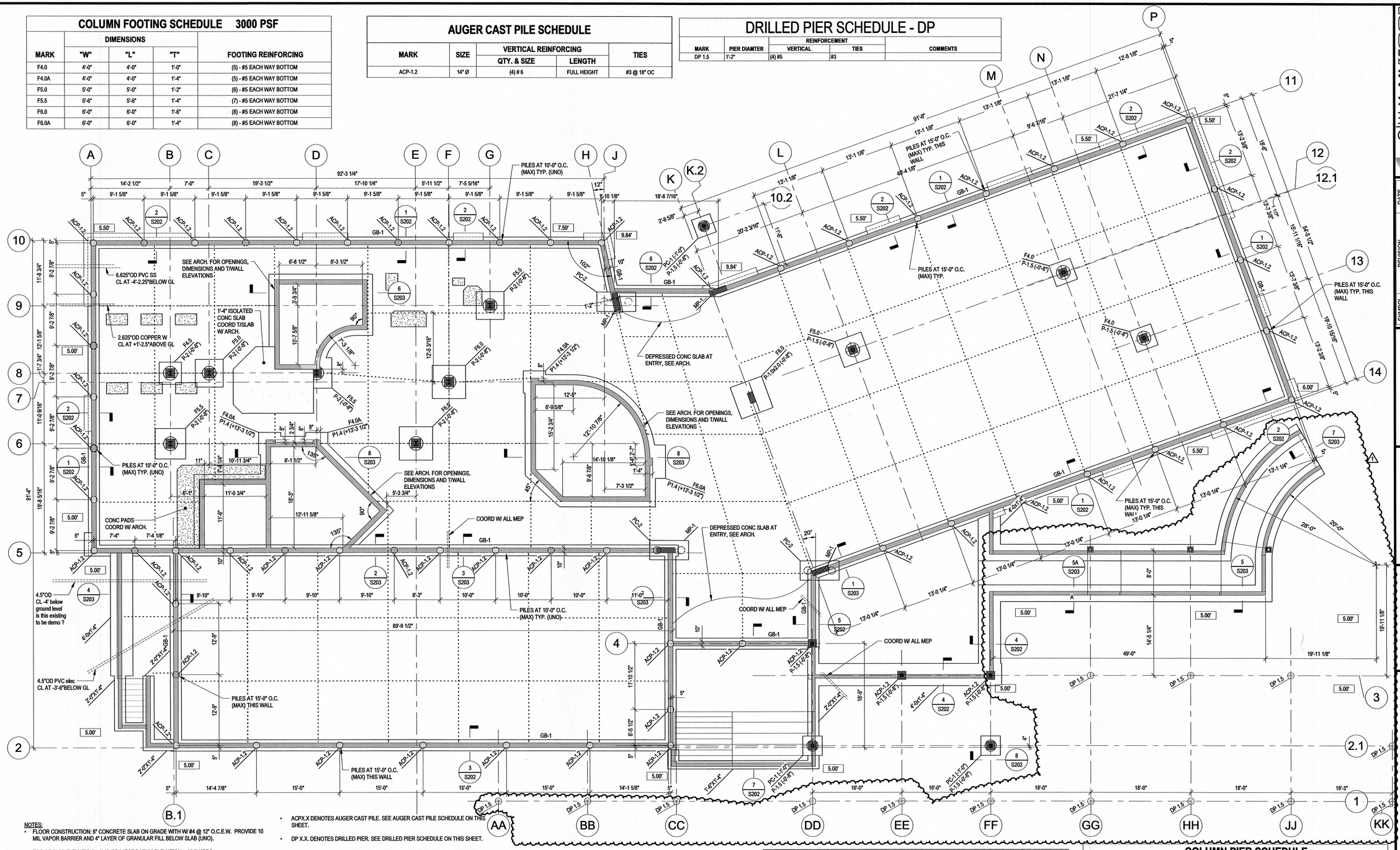
MARK	DIMENSIONS "W"	"L"	"T"	FOOTING REINFORCING
F4.0	4'-0"	4'-0"	1'-0"	(5) - #5 EACH WAY BOTTOM
F4.0A	4'-0"	4'-0"	1'-4"	(5) - #5 EACH WAY BOTTOM
F5.0	5'-0"	5'-0"	1'-2"	(6) - #5 EACH WAY BOTTOM
F5.5	5'-6"	5'-6"	1'-4"	(7) - #5 EACH WAY BOTTOM
F6.0	6'-0"	6'-0"	1'-6"	(8) - #5 EACH WAY BOTTOM
F6.0A	6'-0"	6'-0"	1'-4"	(8) - #5 EACH WAY BOTTOM

AUGER CAST PILE SCHEDULE

MARK	SIZE	VERTICAL REINFORCING QTY. & SIZE	VERTICAL REINFORCING LENGTH	TIES
ACP-1.2	14" Ø	(4) # 6	FULL HEIGHT	#3 @ 18" OC

DRILLED PIER SCHEDULE - DP

MARK	PIER DIAMTER	REINFORCEMENT VERTICAL	REINFORCEMENT TIES	COMMENTS
DP 1.5	1'-2"	(4) #5	#3	



NOTES:

- FLOOR CONSTRUCTION: 6" CONCRETE SLAB ON GRADE WITH W #4 @ 12" O.C.E.W. PROVIDE 10 MIL VAPOR BARRIER AND 4" LAYER OF GRANULAR FILL BELOW SLAB (UNO).
- TOP OF SLAB ELEVATION = 0'-0", PROJECT DATUM ELEVATION = 10.0' USGS.
- ELEVATIONS NOTED THUS (+X'-X") ARE TO TOP OF PILE CAP/GRADE BEAM/FOUNDATION REFERENCED FROM SLAB ON GRADE ELEVATION (UNO).
- TOP OF INTERIOR PILE CAP FOUNDATION ELEVATION = (-6'-0") (UNO).
- TOP OF EXTERIOR PILE CAP/GRADE BEAM/FOUNDATION ELEVATION = (-6'-0") (UNO).
- CONTINUOUS FOOTING ARE MARKED THUS: WIDTHxDEPTH (TOP OF FTG. EL.)
- PROVIDE (2) #4X3'-0" LONG AT ALL REENTRANT CORNERS.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND FINISH OF SLAB ON GRADE AND ANY FLOOR DEPRESSIONS, UNDERFLOOR CONDUITS, DRAINS, ETC.
- SEE SHEET S001, S002, & S003 FOR GENERAL NOTES.
- SEE SHEET S200 FOR TYPICAL DETAILS.
- PCX.X DENOTES PILE CAP. SEE SHEET S200 FOR PILE CAP DETAILS.
- ACPX.X DENOTES AUGER CAST PILE. SEE AUGER CAST PILE SCHEDULE ON THIS SHEET.
- DP X.X. DENOTES DRILLED PIER. SEE DRILLED PIER SCHEDULE ON THIS SHEET.
- GBX.XXX.X-X DENOTES GRADE BEAM. SEE GRADE BEAM SCHEDULE ON THIS SHEET.
- PX.X DENOTES CONCRETE PIER. SEE CONCRETE PIER SCHEDULE ON THIS SHEET.
- MPX.X DENOTES MASONRY PIER. SEE SHEET S200. PROVIDE DOWELS AND EXTEND REINFORCING FULL HEIGHT OF WALL.
- FX.X DENOTES SPREAD FOOTING. SEE THIS SHEET FOR SPREAD FOOTING SCHEDULE.
- FOUNDATIONS ADJACENT TO EXISTING STRUCTURES SHALL BEAR ON UNDISTURBED SOIL AT THE SAME ELEVATION OF THE EXISTING FOOTINGS.
- XXX.XX DENOTES PRESUMED FINISH GRADE AT LOCATION SHOWN. VERIFY VALUE WITH FINAL SITE PLAN AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- DENOTES LOCATIONS FOR EQUIPMENT CONCRETE PADS, COORDINATE FINAL QUANITY, SIZES AND LOCATIONS WITH ARCHITECT AND LIFE SAFETY DRAWINGS.

N

FOUNDATION PLAN

1/8" = 1'-0"

GRADE BEAM SCHEDULE

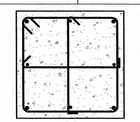
MARK	PIER SIZE WIDTH	PIER SIZE DEPTH	REINFORCING BOTTOM	REINFORCING TOP	STIRRUPS
GB-1	24"	24"	(4) #7	(4) #7	#4 @ 7" OC
GB-2	16"	20"	(4) #6	(4) #6	#4 @ 9" OC

GRADE BEAM NOTES

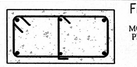
- BOTTOM REINFORCEMENT TO LAP AT CENTERLINE OF SUPPORTS AND TOPO REINFORCEMENT TO LAP AT MIDDLE THIRD OF GRADE BEAM SPAN.
- LAP SPLICES SEE GENERAL NOTES.
- TOP REINFORCEMENT TO EXTEND TO ENDS OF DISCONTINUOUS GRADE BEAMS AND HOOK 1'-0" MINIMUM.
- PROVIDE CORNER BARS TOP AND BOTTOM TO MATCH SIZE AND QUANTITY OF GRADE BEAM REINFORCEMENT.
- LOCATE CONSTRUCTION JOINTS IN MIDDLE THIRD OF SPAN.

COLUMN PIER SCHEDULE

MARK	PIER SIZE	TYPE	REINFORCING
P-1.4	1'-4"x1'-4"	I	(4) #6 VERT., #3 TIES @ 12" O.C.
P-1.6	1'-6"x1'-6"	I	(8) #6 VERT., #3 TIES @ 12" O.C.
P-2.0	2'-0"x2'-0"	I	(8) #6 VERT., #3 TIES @ 12" O.C.
P-1.0x2.0	1'-0"x2'-0"	II	(6) #6 VERT., #3 TIES @ 8" O.C.



TYPE I



TYPE II

CONCRETE PIER TYPES

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1	Revision 1	12/12/2025

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

Steven S. Grasley, P.E. No. 73110
Expiration Date 02/28/2027
Not Valid Without Signature and Original Seal

Sheet Title: FOUNDATION PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

JOHN PENNEKAMP

Sheet Number: S101

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COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PLATE	TYPE	ANCHOR RODS
C-1	W8x24	PL 1"x14"x1'-2"	1	(4) - 3/4"
C-2	W8x31	PL 1"x14"x1'-2"	1	(4) - 3/4"
C-3	W8x58	PL 1"x14"x1'-2"	1	(4) - 3/4"
C-5	HSS6x6x1/4	PL 3/4"x12"x1'-0"	1	(4) - 3/4"
C-6	HSS5x5x1/4	PL 3/4"x11"x0'-11"	1	(4) - 3/4"

MEZZANINE/LOW ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

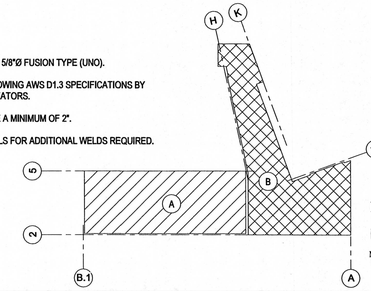
- FLOOR CONSTRUCTION: 3 1/2" NORMAL WEIGHT CONCRETE SLAB ON TOP OF 3"X22GA. GALVANIZED COMPOSITE METAL DECK (6.5" TOTAL THICKNESS). REINFORCE WITH 6x6-W2.9xW2.9 W.W.F. SEE TYPICAL COMPOSITE FLOOR PLAN DETAILS AND REINFORCEMENT ON SHEET S3.0 FOR ADDITIONAL REINFORCEMENT. DECK IS DESIGNED FOR 3-SPAN CONDITION. DECK MANUFACTURER SHALL VERIFY SPAN CONDITION AND INCREASE DECK GAUGE AS REQUIRED FOR 1 OR 2 SPAN CONDITIONS.
- TOP OF CONCRETE ELEVATION= 13'-10" REFERENCED TO SLAB ON GRADE ELEVATION OF 0'-0" (UNO).
- DENOTES TOP OF FLOOR SLAB ELEVATION=9'-9" REFERENCED TO SLAB ON GRADE ELEVATION OF 0'-0" (UNO).
- TOP OF STEEL ELEVATION = 13'-3 1/2". BEAMS NOTED THUS (+/-) ARE REFERENCED FROM TOP OF STEEL ELEVATION OF 13'-3 1/2" (UNO).
- DESIGN IS LRFD COMPOSITE DESIGN. DESIGN IS BASED ON UNSHORED DECK AND BEAMS. BEAMS AND GIRDERS ARE APPROXIMATLEY CAMBERED FOR THE WEIGHT OF THE SLAB AND BEAMS.
- ALL REACTIONS ARE UNFACTORED SERVICE.
- PROVIDE (2) #4x3'-0" LONG REINFORCEMENT BAR AT EACH SLAB OPENING CORNER. SEE TYPICAL DETAIL ON S3.0.
- PROVIDE FLOOR CLOSURES AROUND ALL COLUMNS.
- PROVIDE L2 1/2x2x1/4 AT ALL CHANGES IN DECK DIRECTION AND ALL LOCATIONS WHERE DECK IS CUT ON A SKEW (UNO).
- COORDINATE SIZE AND LOCATION OF ALL FLOOR OPENINGS AND EDGE OF SLAB LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- SEE BEAM DESIGNATION LEGEND FOR SHEAR STUD PLACEMENT ON S3.0 AND SHEAR CONNECTOR PLACEMENT NOTES IN THE GENERAL NOTES.
- SEE SHEET S0.1, S0.2, & S0.3 FOR GENERAL NOTES.
- SEE SHEET S3.0 FOR TYPICAL DETAILS.
- C-X DENOTES COLUMNS. SEE THIS SHEET FOR SCHEDULE..
- MP-X.X DENOTES MASONRY PIER. SEE SHEET S201 FOR DETAILS. PROVIDE DOWELS AND EXTEND REINFORCING FULL HEIGHT OF WALL.
- DENOTES LOW ROOF CONSTRUCTION: 1 1/2"x22GA. PAINTED GALVANIZED WIDE RIB DECK (TYPE B) WELDED TO SUPPORT STEEL. SEE LOW ROOF DECK CONNECTION SCHEDULE ON THIS SHEET. MINIMUM 3-SPAN CONDITION (UNO).
- ROOF JOIST BEARING AT 14'-9" REFERENCED FROM SLAB ON GRADE ELEVATION OF 0'-0".
- SEE SHEET S103 FOR ADDITIONAL ROOF FRAMING PLAN NOTES.
- DENOTES LOCATIONS FOR EQUIPMENT CONCRETE PADS, COORDINATE FINAL QUANITY, SIZES AND LOCATIONS WITH ARCHITECT AND LIFE SAFETY DRAWINGS.
- PX.X DENOTES CONCRETE PIER. SEE CONCRETE PIER SCHEDULE ON SHEET S101.

LOW ROOF AND CANOPY DECK CONNECTIONS SCHEDULE

MARK	ATTACHMENT		
	PERPENDICULAR TO SUPPORT	PARALLEL TO SUPPORT	SEAMS
A	PUDDLE WELD AT 12"O.C. (36/7 PATTERN)	PUDDLE WELD AT 12"O.C.	(3)-#10 TEK SCREWS PER SPAN
B	PUDDLE WELD AT 12"O.C. (36/7 PATTERN)	PUDDLE WELD AT 6"O.C.	(5)-#10 TEK SCREWS PER SPAN

NOTES:

- ALL PUDDLE WELDS TO BE 5/8"Ø FUSION TYPE (UNO).
- WELDS TO BE MADE FOLLOWING AWS D1.3 SPECIFICATIONS BY QUALIFIED WELDING OPREATORS.
- ALL DECK END LAPS TO BE A MINIMUM OF 2".
- SEE SECTIONS AND DETAILS FOR ADDITIONAL WELDS REQUIRED.



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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE
	Revision 1	12/12/2025

ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM

Consultant: K2M DESIGN
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Kay Vinet, Florida
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STEVEN S. GRASLEY LICENSE No. 73110 STATE OF FLORIDA PROFESSIONAL ENGINEER
Steven S. Grasley, PE
Signature Date: 12/12/2025
COA #: 30845

JOHN PENNEKAMP

Sheet Title: MEZZANINE/LOW ROOF FRAMING PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: S102

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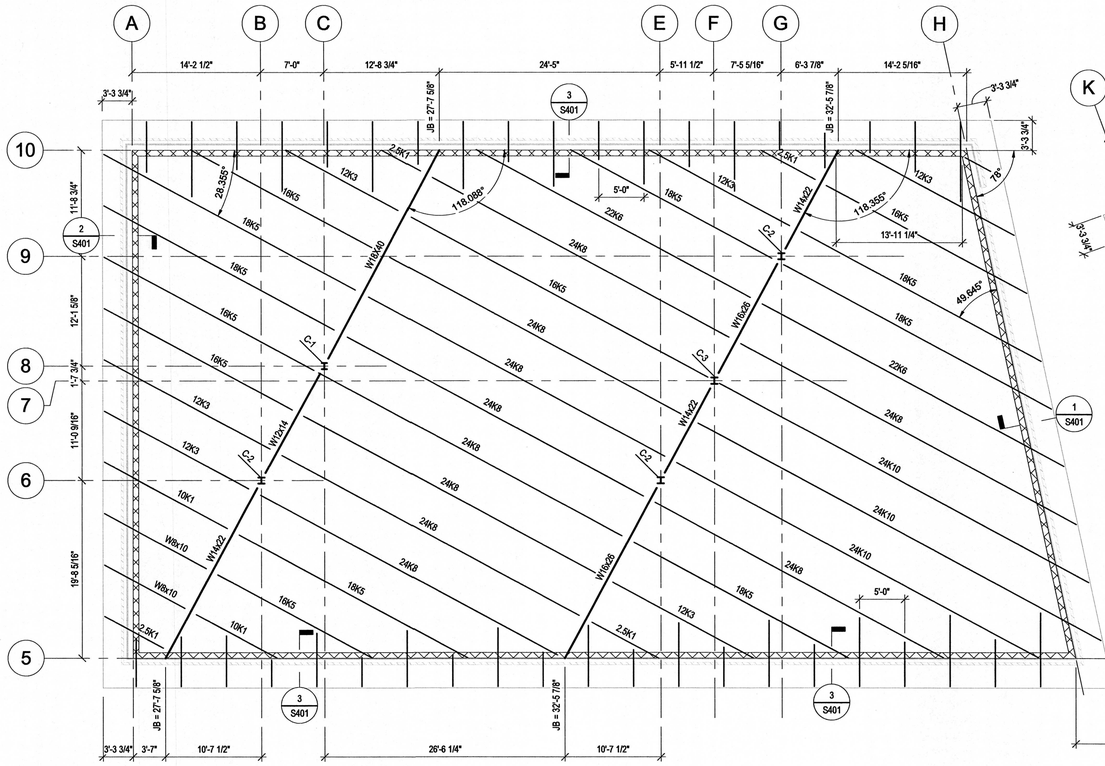
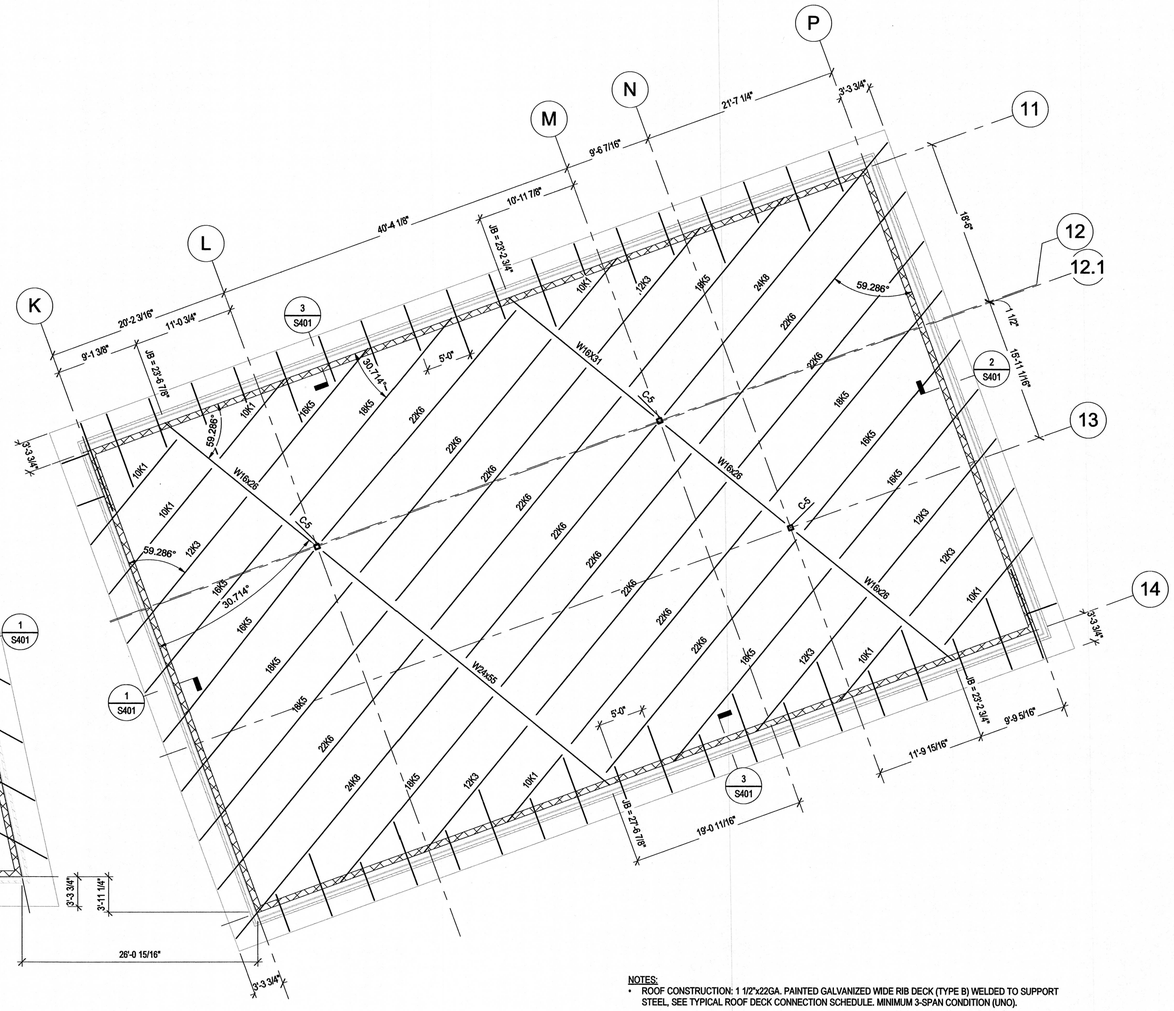




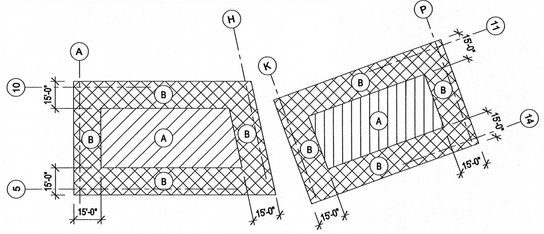
ROOF FRAMING PLAN

1/8" = 1'-0"

HIGH ROOF DECK CONNECTIONS SCHEDULE			
MARK	ATTACHMENT		
	PERPENDICULAR TO SUPPORT	PARALLEL TO SUPPORT	SEAMS
A	PUDDLE WELD AT 12"O.C. (36/7 PATTERN)	PUDDLE WELD AT 12"O.C.	(3)-#10 TEK SCREWS PER SPAN
B	PUDDLE WELD AT 12"O.C. (36/7 PATTERN)	PUDDLE WELD AT 6"O.C.	(5)-#10 TEK SCREWS PER SPAN

NOTES:

- ALL PUDDLE WELDS TO BE 5/8"Ø FUSION TYPE (UNO).
- WELDS TO BE MADE FOLLOWING AWS D1.3 SPECIFICATIONS BY QUALIFIED WELDING OPREATORS.
- ALL DECK END LAPS TO BE A MINIMUM OF 2".
- SEE SECTIONS AND DETAILS FOR ADDITIONAL WELDS REQUIRED.



NOTES:

- ROOF CONSTRUCTION: 1 1/2"x22GA. PAINTED GALVANIZED WIDE RIB DECK (TYPE B) WELDED TO SUPPORT STEEL, SEE TYPICAL ROOF DECK CONNECTION SCHEDULE. MINIMUM 3-SPAN CONDITION (UNO).
- ROOF JOIST BEARING ELEVATIONS ARE REFERENCED FROM SLAB ON GRADE ELEVATION OF 0'-0".
- ROOF BEAM ELEVATION NOTED THUS (±) INDICATE TOP OF BEAM ABOVE OR BELOW J/B ELEVATION NOTED.
- PROVIDE JOIST BRIDGING IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (UNO). SEE TYPICAL DETAIL ON S400
- PROVIDE ADDITIONAL ROW OF BRIDGING AT 1st PANEL POINT OF ALL JOISTS SUBJECTED TO NET UPLIFT LOADING – SEE GENERAL NOTES.
- PROVIDE L2 1/2x2x1/4 AT ALL CHANGES IN DECK DIRECTION AND ALL LOCATIONS WHERE DECK IS CUT ON A SKEW (UNO).
- COORDINATE ALL OPENINGS AND EDGE CONDITIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE SHEET S400 FOR TYPICAL OPENING DETAIL.
- DESIGN JOIST SUBSTITUTES FOR 400 PLF (UNO).
- SEE SHEET S001, S002, & S003 FOR GENERAL NOTES.
- SEE SHEET S400 FOR TYPICAL DETAILS.
- C-X DENOTES COLUMNS. SEE SHEET S102 FOR SCHEDULE.
- JOISTS ARE DESIGNED TO SUPPORT EQUIPMENT INDICATED ON PLAN. IF EQUIPMENT LOCATION VARIES OR WEIGHT EXCEEDS THAT NOTED THEN NOTIFY ENGINEER.

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DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

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STEVEN S. GRASLEY
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STATE OF FLORIDA
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PROFESSIONAL ENGINEER
Steven S. Grasley, P.E.
Executive Date: 05/30/2025
COA #: 30845

JOHN PENNEKAMP

Sheet Title: HIGH ROOF FRAMING PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S103

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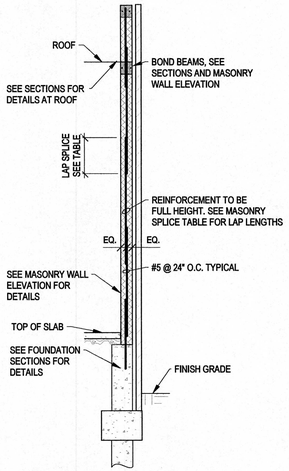
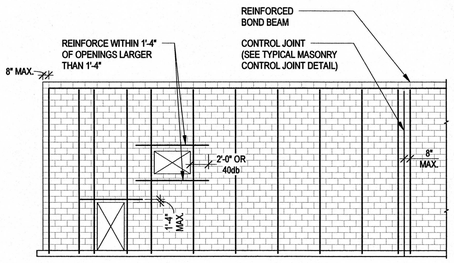


TYPICAL WALL SECTION



TYPICAL MASONRY WALL REINFORCING (UNO)

NOTES

VERTICAL REINFORCING

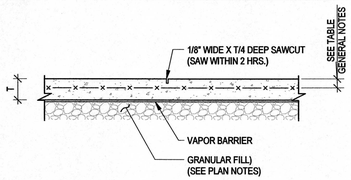
- PROVIDE TYPICAL REINFORCING SHOWN IN TYPICAL WALL SECTIONS ON THIS SHEET.
- ALL VERTICAL BARS SPECIFIED BELOW ARE #5 BARS AT 8" CMU AND #6 BARS AT 12" CMU UNO.
- PROVIDE (2) BARS FULL HEIGHT WITHIN 16" OF EACH SIDE OF WALL OPENING UNLESS SHOWN ON PLAN. REINFORCING TO CLEAR END OF LINTEL.
- PROVIDE (1) BAR AT EACH CORNER.
- PROVIDE (1) BAR AT EACH SIDE OF A CONTROL JOINT.
- PROVIDE (1) BAR WITHIN 8" OF ENDS OF DISCONTINUOUS WALLS.
- ALL VERTICAL BARS SHALL HAVE DOWELS TO MATCH.

HORIZONTAL REINFORCING

- PROVIDE HORIZONTAL JOINT REINFORCING GALVANIZED 9 GA. SIDE AND CROSS RODS SPACED AT 16" O.C. VERTICALLY. TRUSS TYPE AT NON-VERTICALLY REINFORCED WALLS AND LADDER TYPE AT VERTICALLY REINFORCED WALLS.
- PROVIDE (2) #4 AT THE TOP AND BOTTOM OF ALL OPENINGS 1'-4" OR LARGER. EXTEND 24" OR 40db WHICHEVER IS GREATER PAST THE EDGE OF OPENING. PROVIDE LINTEL AT ALL OPENINGS 16" AND LARGER IN ADDITION TO REINFORCING, SEE LINTEL SCHEDULE.
- PROVIDE 8" BOND BEAM W/ (2) #4 CONT. AT TOP OF ALL WALLS THAT DO NOT CONTINUE UP AND BRACE TO STRUCTURE ABOVE. EXTEND REINFORCING INTO CROSS WALLS EA. END.

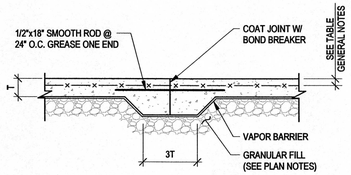
GENERAL

- LAP LENGTHS SHALL COMPLY WITH MASONRY SPLICE TABLE.
- REINFORCING SHALL BE COORDINATED W/ ARCHITECTURAL ELEVATIONS, PLANS & DETAILS.
- MASONRY PIERS SHALL BE SIZED AND LOCATED AS DETAILED ON THE PLANS.
- FOR CONDITIONS AT BEAM BEARINGS AND LINTELS SEE TYPICAL DETAILS.
- PROVIDE BOND BEAMS AS SHOWN IN SECTIONS.



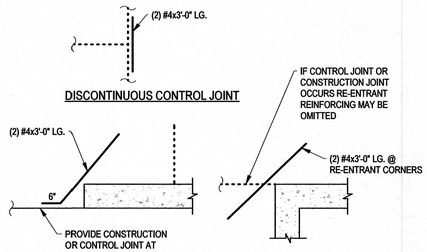
CONTROL JOINT

(SEE PLAN FOR LOCATIONS)



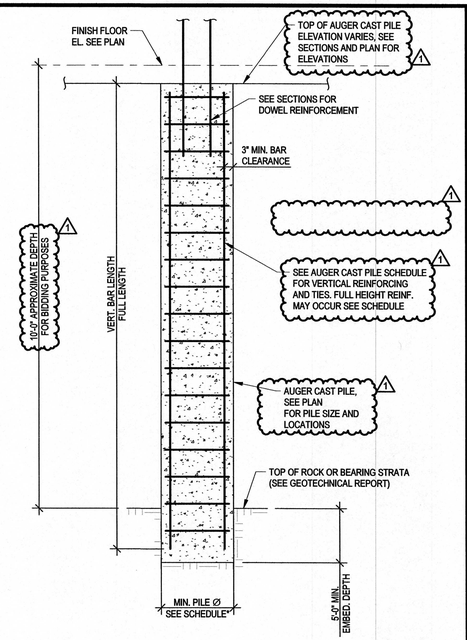
CONSTRUCTION JOINT

TYPICAL SLAB JOINT DETAILS



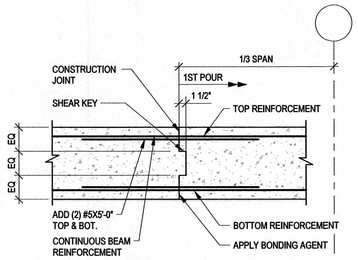
TYPICAL RE-ENTRANT AND DISCONTINUOUS CONTROL JOINT SLAB REINFORCING

1/2"=1'-0"



TYPICAL AUGER CAST PILE SECTION

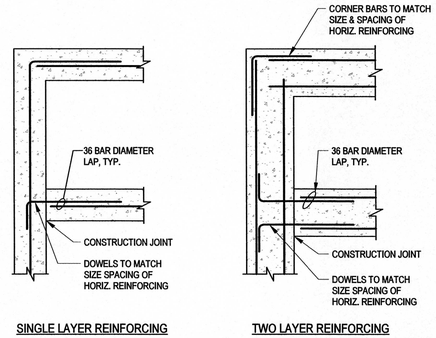
* MINIMUM DRILLED PIER DIAMETER SHALL BE REQUIRED WITHIN ROCK OR BEARING STRATA. OVERSIZED SHAFT MAY BE REQUIRED ABOVE TO ACHIEVE THIS.



TYPICAL CONSTRUCTION JOINT AT GRADE BEAM

NOTES:

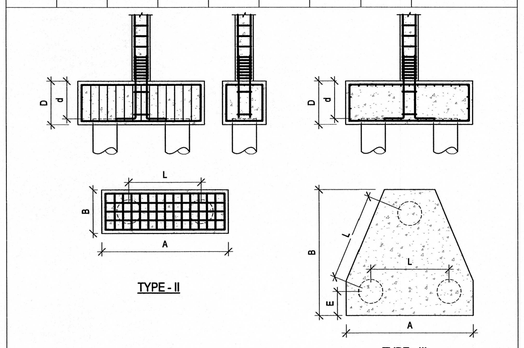
- CONSTRUCTION JOINTS ARE PERMITTED IN MIDDLE THIRD OF CLEAR SPAN.
- CONTRACTOR SHALL SUBMIT IN DRAWING FORM THE PROPOSED CONSTRUCTION JOINT LAYOUTS FOR THE PROJECT. REINFORCING SHOP DRAWINGS SHALL REFLECT THE APPROVED CONSTRUCTION JOINT LAYOUT WITH THE REINFORCING DETAILED ACCORDINGLY.

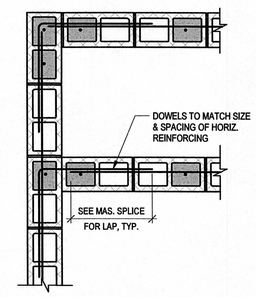


TYPICAL CONCRETE WALL HORIZONTAL REINFORCING DETAILS

PILE CAP SCHEDULE

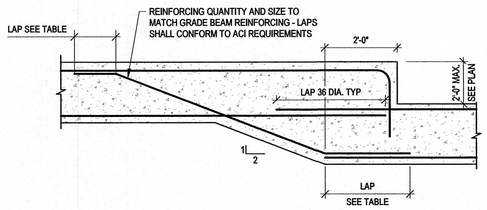
MARK	TYPE	A	B	E (in.)	L (in.)	D	d (in.)	REINFORCING
PC-1	I	3'-6"	3'-6"	21		2'-6"	24	(5) #7 E.W T&B
PC-2	II	7'-0"	3'-6"	21	42	2'-6"	24	(12) #5 x (5) #5 T&B
PC-3	III	7'-0"	6'-6"	21	42	2'-5"	24	(7) #7 E.W T&B



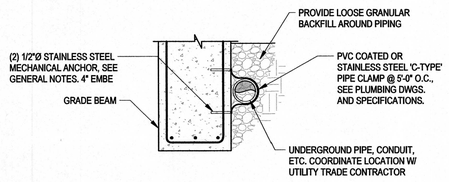


SINGLE LAYER REINFORCING

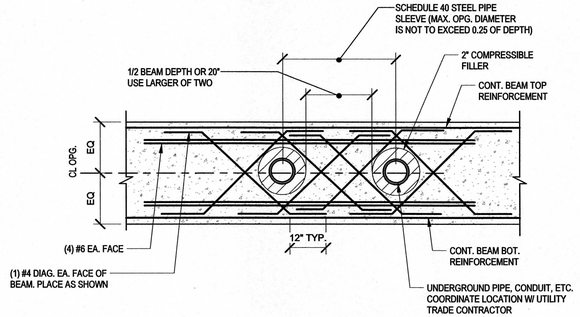
TYPICAL MASONRY WALL REINFORCING DETAILS



TYPICAL GRADE BEAM STEP DETAIL

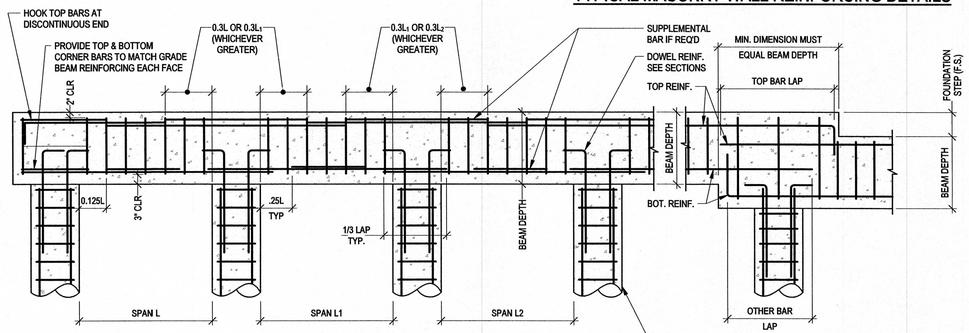


TYPICAL PIPE CLAMP CONNECTION TO GRADE BEAM



TYPICAL ROUND OPENING THRU GRADE BEAM

NOTE:
ALL OPENINGS ARE TO BE KEPT IN THE MIDDLE THIRD OF THE CLEAR SPAN OF THE BEAM OR GIRDER, UNO ON STRUCTURAL PLANS



GRADE BEAM NOTES:

1. BOTTOM REINFORCEMENT TO LAP AT CENTERLINE OF SUPPORTS AND TOP REINFORCEMENT TO LAP AT MIDDLE OF THIRD GRADE BEAM SPAN.
2. TOP REINFORCEMENT TO EXTEND TO ENDS OF DISCONTINUOUS GRADE BEAMS AND HOOK 1'-0" MINIMUM.
3. PROVIDE CORNER BARS TOP AND BOTTOM TO MATCH SIZE AND QUANTITY OF GRADE BEAM REINFORCEMENT.
4. LOCATE CONSTRUCTION JOINTS IN MIDDLE THIRD OF SPAN.
5. GRADE BEAM REINFORCING TO RUN CONTINUOUS THROUGH PILE CAPS.

TYPICAL AUGERCAST GRADE BEAM REINFORCING DETAIL

FOR LAP LENGTH - SEE GENERAL NOTES

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DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

Steven S. Grasley, License #: 73110, State of Florida, Professional Engineer
COA #: 32645

JOHN PENNEKAMP

Sheet Title: TYPICAL FOUNDATION DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: S200

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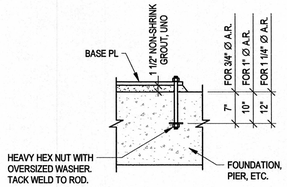
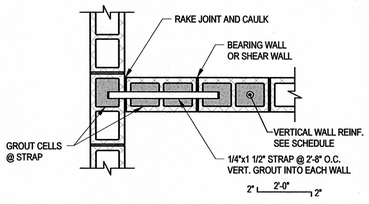


TYPICAL ANCHOR ROD DETAIL

(ASTM F1554 GR. 36)

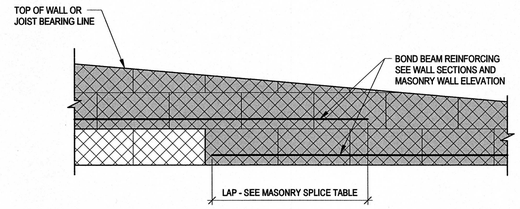
- CONTRACTOR MAY USE LEVELING NUTS OR LEVELING PLATES AT CONTRACTOR'S OPTION.
- AN INCREASE IN GROUT THICKNESS FOR LARGE BASE PLATES IS PERMISSIBLE IF APPROVED BY THE ENGINEER. COORDINATION DUE TO INCREASE IN GROUT THICKNESS FOR OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.



NOTE: AT NON-LOAD BEARING (PARTITION) WALLS, PROVIDE CONTINUOUS T-SHAPED WIRE JOINT REINFORCEMENT.

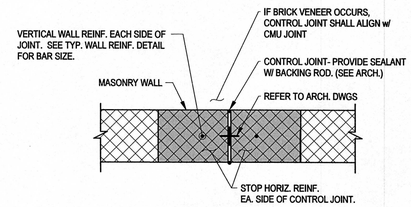
TYPICAL DETAIL AT INTERSECTING MASONRY WALLS

MASONRY SPLICE TABLE		
REINFORCING SIZE	8" MASONRY	12" MASONRY
#3	27"	27"
#4	36"	36"
#5	45"	45"
#6	54"	54"
#7	63"	63"



TYPICAL BOND BEAM LAP AT CHANGE IN BOND BEAM ELEVATION

NOTE: PROVIDE MINIMUM 8" DEEP BOND BEAM



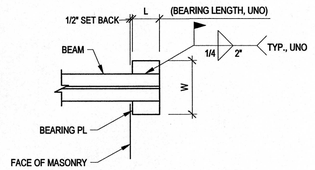
DO NOT CONTINUE CONTROL JOINT THRU BOND BEAMS. SCORE MASONRY AT BOND BEAMS. REINFORCMENT IN BOND BEAMS TO BE CONTINUOUS ACROSS SCORED JOINT.

TYPICAL MASONRY CONTROL JOINT

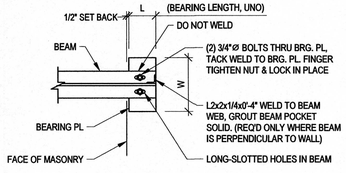
SPACE @ 25'-0" O.C. MAX., SEE ARCH DRAWINGS FOR LOCATIONS

BEARING PLATE SCHEDULE

MARK	SIZE (TxLxW)	COMMENTS	ANCHORS (STUD TYPE, UNO)
BP-1	3/8"x4"x0'-9"	K-SERIES JOISTS	(2) 1/2"Ø x 6" LONG
BP-2	3/8"x7 1/2"x1'-0"	K-SERIES/COMMON BEARING	(4) 1/2"Ø x 6" LONG
BP-3	1/2"x7 1/2"x0'-10"	LH-SERIES JOISTS	(2) 1/2"Ø x 6" LONG
BP-4	3/8"x7 1/2"x0'-7 1/2"	MINIMUM BEAM/LINTEL BEARING PLATE (TYP., UNO)	(2) 1/2"Ø x 6" LONG



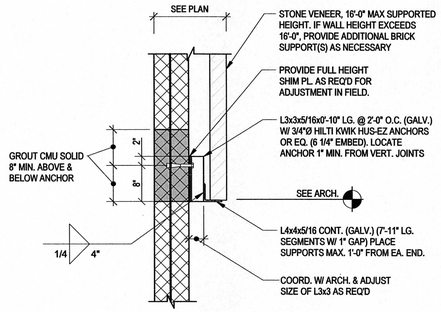
WELDED CONNECTION - USE AT ONE END OF BEAM ONLY



BOLTED CONNECTION - TYPICAL, EXCEPT WHERE WELDED

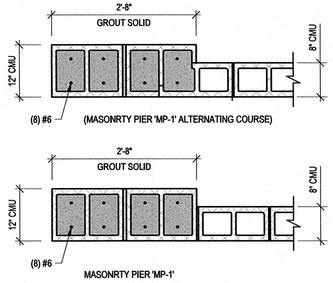
NOTES:

- BEARING PLATE "BP-4" IS THE MINIMUM REQUIRED BEARING PLATE, UNLESS NOTED OTHERWISE. THIS PLATE IS REQUIED AT ALL LOCATIONS WHERE A BEAM CROSSES OR ENDS AT A BEARING WALL.
- PROVIDE ONE OF THE CONNECTIONS SHOWN ABOVE AT ALL BEAM BEARING PLATES.
- SEE SECTIONS & DETAILS AND SJI REQUIREMENTS AT JOIST BEARING PLATES.



G.C. NOTE:
STEEL-FABRICATED ASSEMBLY AS SHOWN PROVIDES LIMITED ADJUSTABILITY IN FIELD AND THEREFORE REQUIRES CAREFUL COORDINATION TO INSTALL BRICK SUPPORT IN PROPER LOCATION. IN LIEU OF THIS, A PRE-FABRICATED, FULLY-ENGINEERED ADJUSTABLE BRICK WORK SUPPORT SYSTEM MAY BE SUBSTITUTED, SEE MASONRY SPECS.

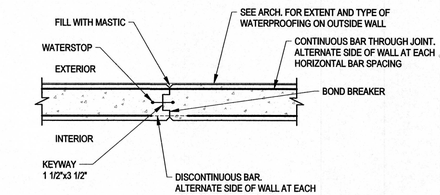
TYPICAL BRICK/STONE VENNER SUPPORT DETAIL AT MASONRY WALL BACK UP



MASONRTY PIER DETAILS

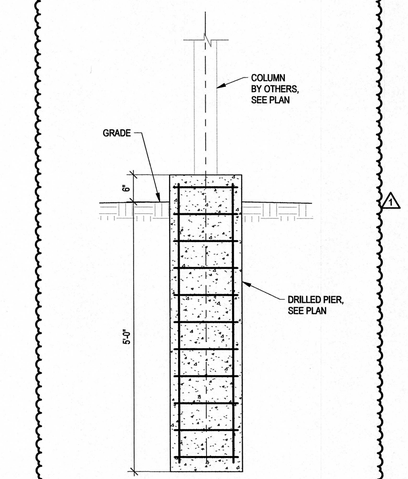
NOTES:

- ALL VERTICAL WALL REINFORCEMENT TO HAVE FOOTING DOWELS TO MATCH.
- ALL VERTICAL REINF. IS TO BE CONTINUOUS FROM FOUNDATION TO BOND BEAM AT FLOOR OR ROOF ABOVE BEAM OR LINTEL THAT BEARS ON MASONRY PIER.
- WHERE LINTEL OR BEARING PLATE INTERRUPTS VERT. REINF. CONTINUE REINFORCING BEYOND LINTEL AND EXTEND BELOW LINTEL OR BEARING PLATE TO PROVIDE PROPER LAP SPLICE LENGTH (SEE TABLE ON S200).
- MASONRY UNIT LAYOUTS ARE SHOWN FOR REFERENCE. ALL PIERS SHALL BE LAID UP IN RUNNING BOND.
- GROUT ALL CORES WITH BARS OR SHADED CORES.
- WHERE (1) BAR PER CORE IS SHOWN, BAR SHALL BE POSITIONED IN CENTER OR WALL WIDTH.
- WHERE (2) BARS PER CORE ARE SHOWN, BARS SHALL BE POSITIONED 2" CLEAR FROM EACH FACE OF WALL (UNO).



TYPICAL BUILDING CONCRETE WALL CONSTRUCTION JOINT DETAIL

(50% CONTINUOUS REBAR)



TYPICAL DRILLED PIER SECTION

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN687

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

K2M DESIGN
Architecture, Engineering, Interior Design, Facility Asset Management
Key Largo, Florida
Key West, Florida
Miami, Florida
www.k2mdesign.com
PROF. REG. AA26001059
Building Code Info:
Based on Florida Building Code 8th Edition (2023)
Chapter(s) / Section(s) Used (key map):
Table 2304.13.1 Masonry Requirements

STEVEN S. GRASLEY ★ LICENSE ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★ No. 73110

Steven S. Grasley, License # 73110
Expiration Date 02/28/2027
CA # 30445

JOHN PENNEKAMP
Sheet Title: TYPICAL FOUNDATION DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S201

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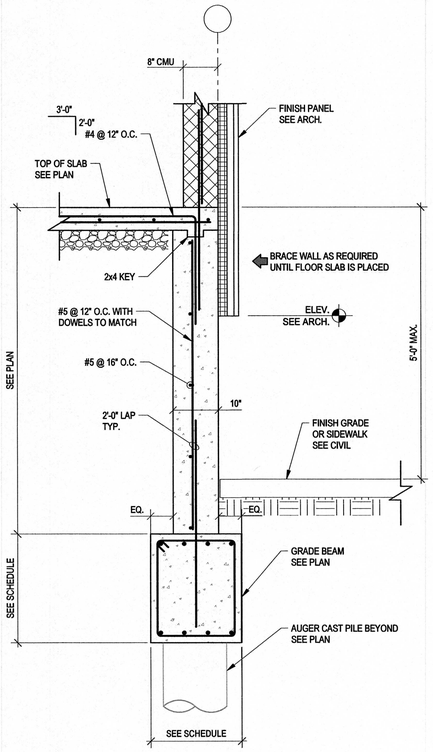
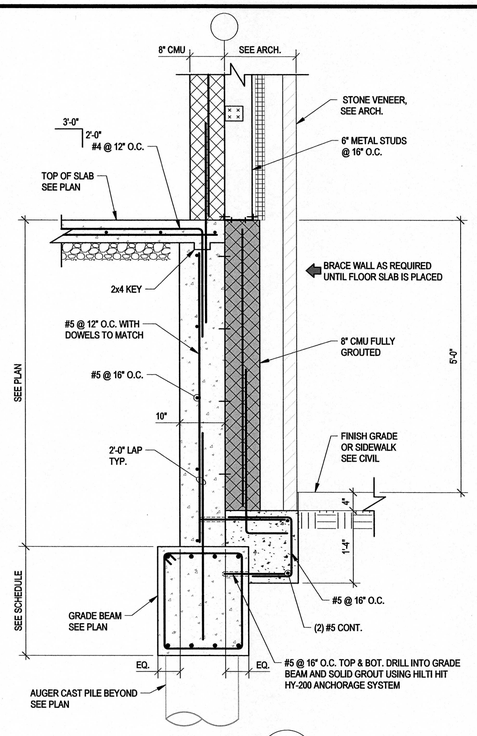


SECTION 1
3/4" = 1'-0"



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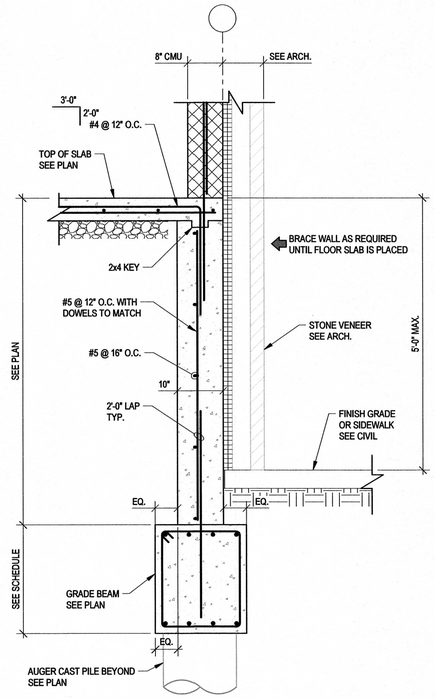

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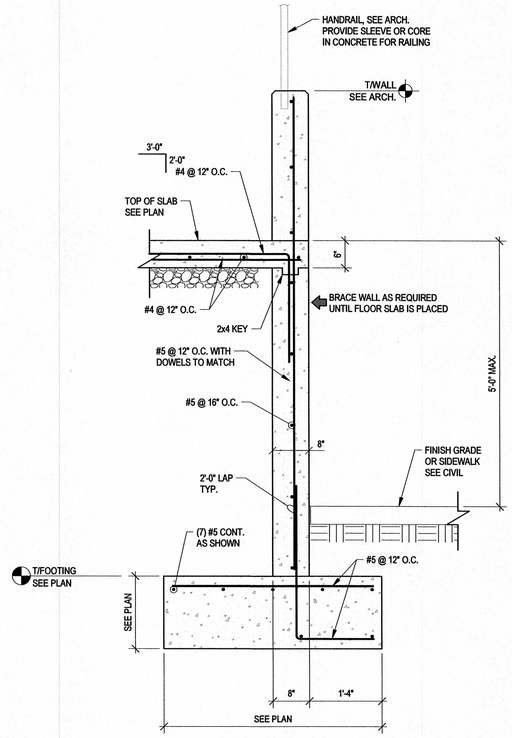

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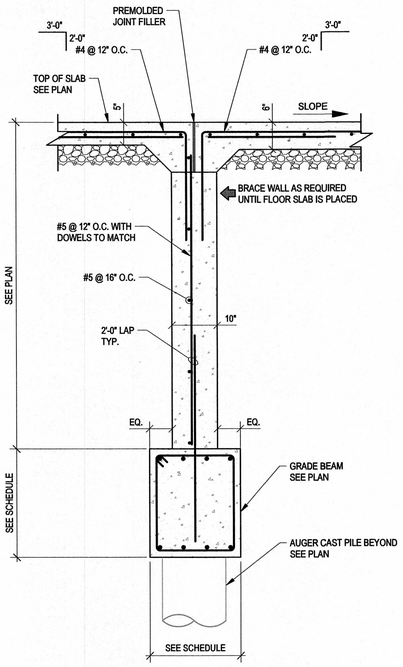

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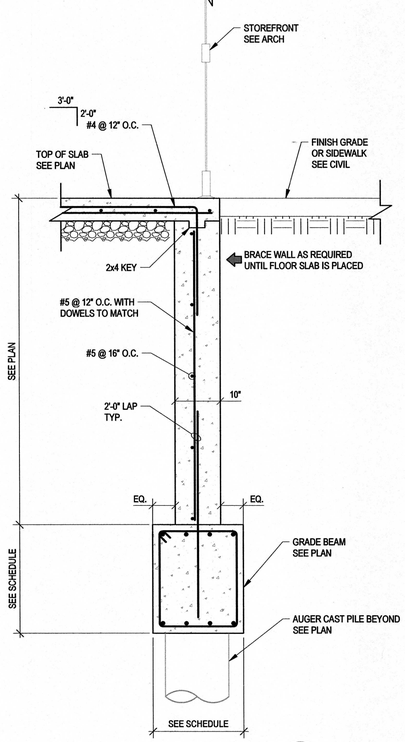

SECTION 6
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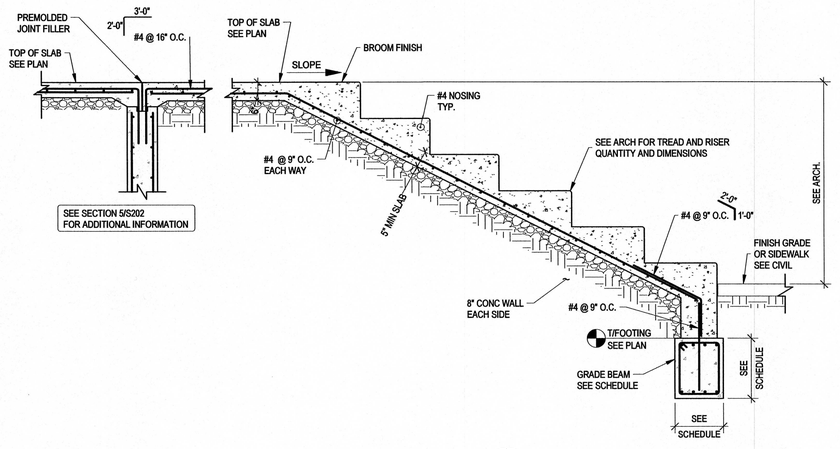

SECTION 7
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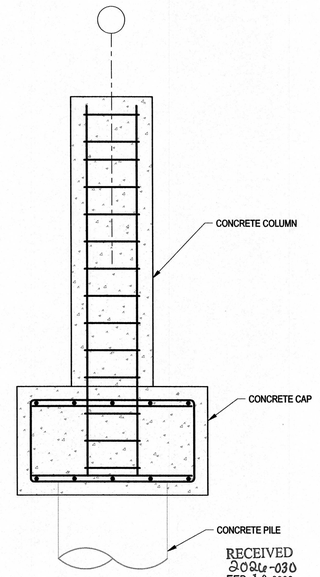

SECTION 8
3/4" = 1'-0"

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant: K2M DESIGN

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ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN557

STATE OF FLORIDA
STEVEN S. GRASLEY
LICENSE
No. 73110
PROFESSIONAL ENGINEER
Steven S. Grasley License No. 73110
Expiration Date: 02/28/2027
CAA # 30445

JOHN PENNEKAMP

Sheet Title: FOUNDATION SECTIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S202

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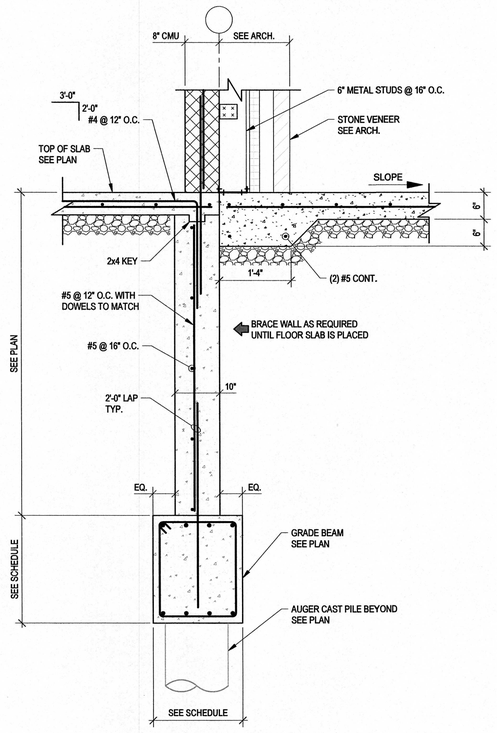

SECTION 1
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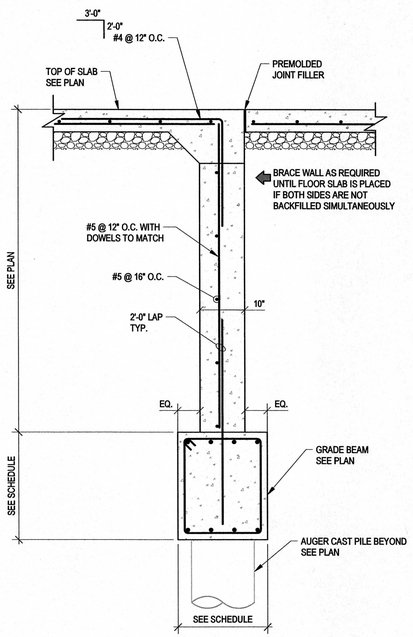

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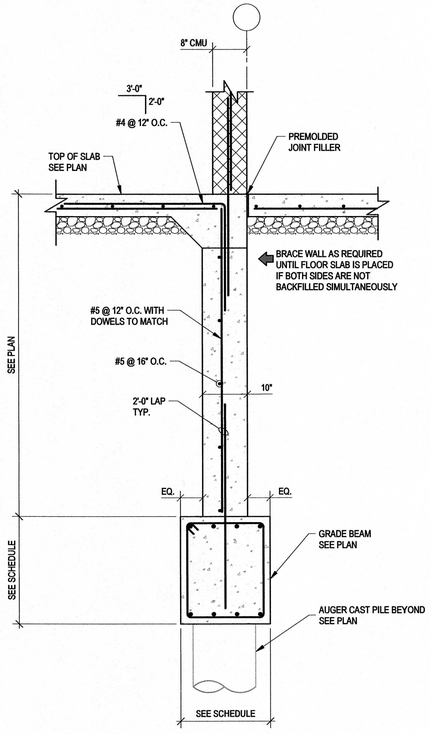

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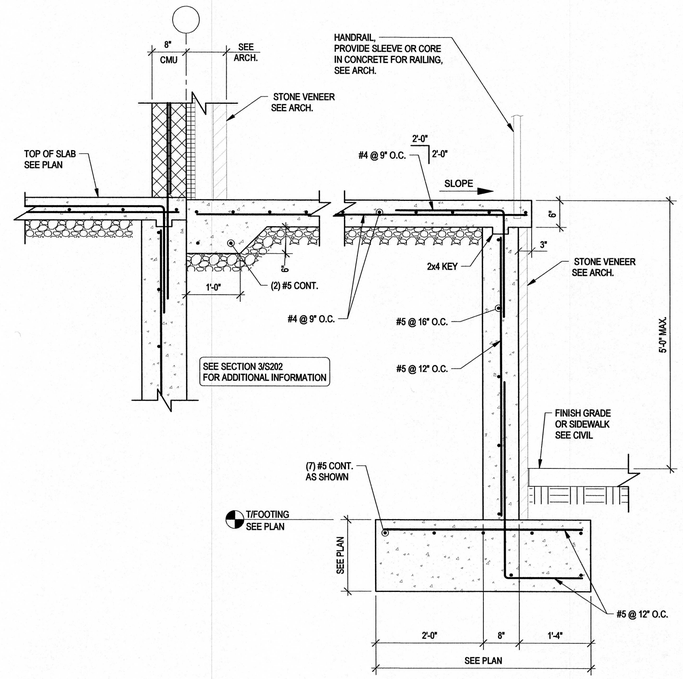

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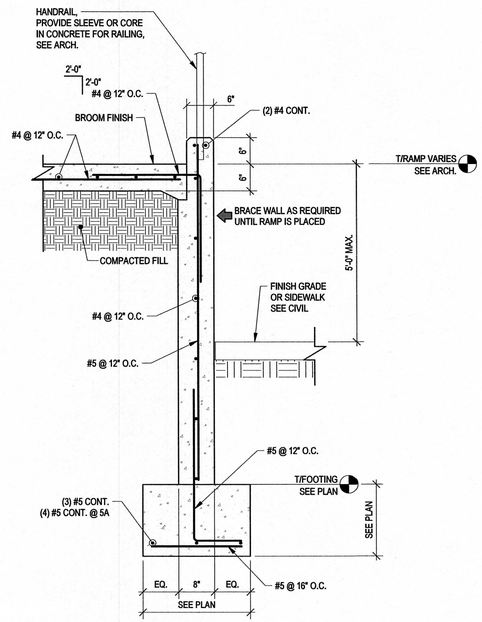
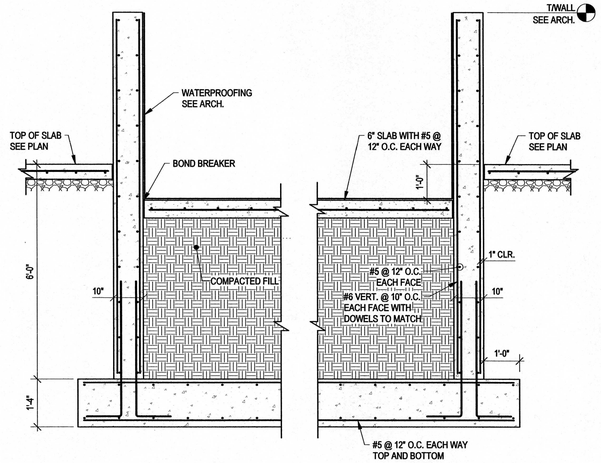
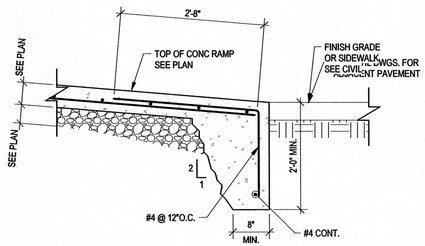


SECTION 5 / 5A
3/4" = 1'-0"



SECTION 6
1/2" = 1'-0"



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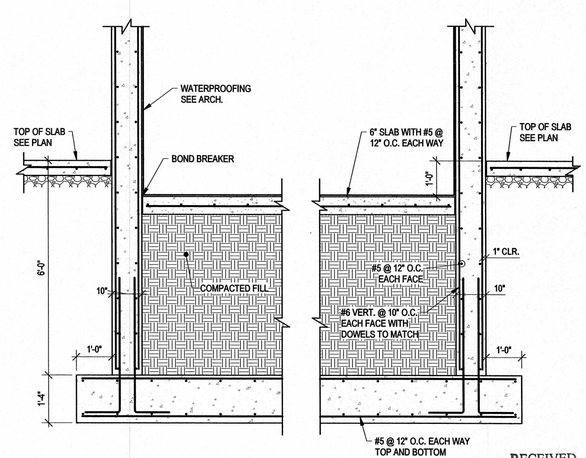

SECTION 8
1/2" = 1'-0"

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant: K2M DESIGN

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ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STATE OF FLORIDA PROFESSIONAL ENGINEER
STEVEN S. GRASLEY LICENSE No. 73110
Steven S. Grasley, License # 73110
Date: 05/30/2025
COA #: 33045

JOHN PENNEKAMP
Sheet Title: FOUNDATION SECTIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S203

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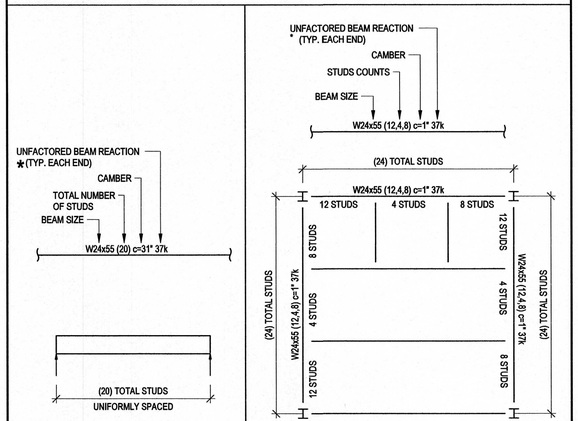
COMPOSITE BEAM AND GIRDER STUD PLACEMENT LEGEND

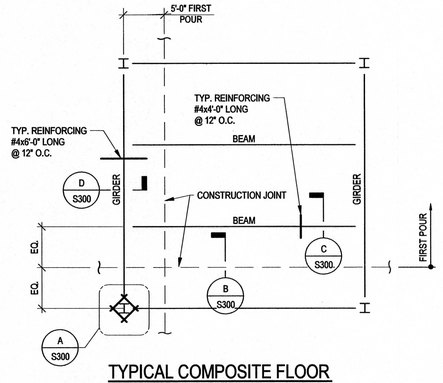


* FOR BEAMS WITH REACTIONS NOT SHOWN, USE REACTIONS FROM ALLOWABLE UNIFORM LOAD TABLES IN AISC.

STUDS SHOWN THUS (X, Y, Z) INDICATE THE NUMBER OF STUDS BETWEEN EACH PURLIN CONNECTION LEFT TO RIGHT AS YOU READ IT. SEE GRAPHIC REPRESENTATION ON PLACEMENT LEGEND PLAN

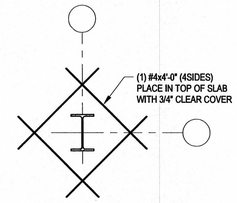
STANDARD SHEAR CONNECTION SCHEDULE

BEAM SIZE	MINIMUM NO. OF ROWS OF A325 3/4" Ø BOLTS IN DOUBLE SHEAR	
	FLOOR	ROOF
W12	3	3
W14	3	3
W16	4	4
W18	5	5
W21	6	6
W24	7	6
W27	8	7
W30	8	7



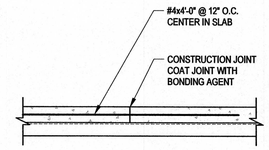
TYPICAL COMPOSITE FLOOR DETAILS & REINFORCEMENT

NOTES:
- PROVIDE TOP REINFORCEMENT SHOWN ABOVE ON ALL BEAMS & GIRDERS IN COMPOSITE FLOORS (TYPICAL UNO ON PLAN).
- FOR BEAMS AND GIRDERS AT PERIMETER FLOOR OPENINGS AND EDGE OF SLAB PROVIDE STANDARD HOOK AT END OF BAR OVER BEAM OR GIRDER.



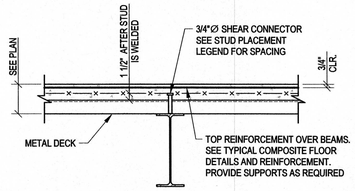
TYPICAL SLAB REINF. AT COLUMNS

DETAIL A S300 — SCALE 3/4"=1'-0"



TYPICAL COMPOSITE SLAB CONSTRUCTION JOINT DETAIL

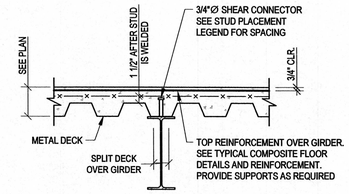
DETAIL B S300 — SCALE 3/4"=1'-0"



SEE ARCH. FOR SPRAY APPLIED FIREPROOFING

TYPICAL COMPOSITE BEAM DETAIL

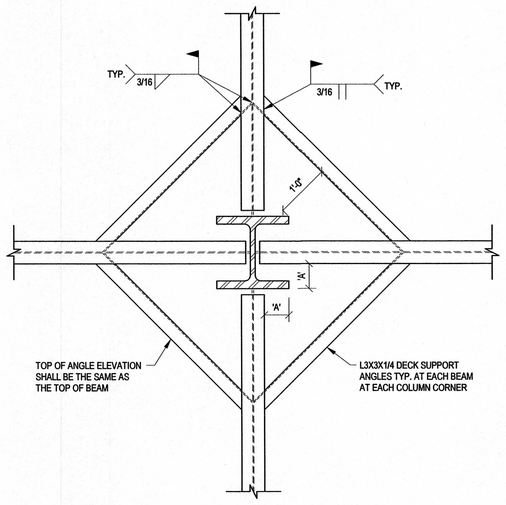
DETAIL C S300 — SCALE 3/4"=1'-0"



SEE ARCH. FOR SPRAY APPLIED FIREPROOFING

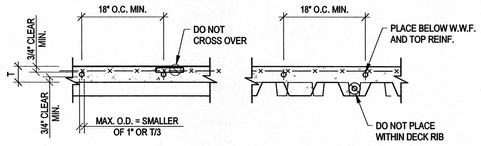
TYPICAL COMPOSITE GIRDER DETAIL

DETAIL D S300 — SCALE 3/4"=1'-0"

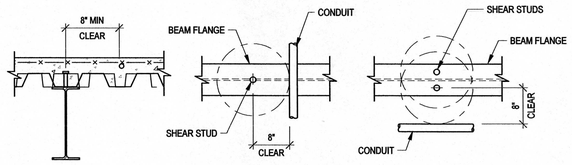


TYPICAL METAL DECK SUPPORT ANGLES

NOTE:
PROVIDE DECK SUPPORT ANGLE WHEN 'A' IS EQUAL TO OR GREATER THAN 6" OR WHEN MECHANICAL OR ELECTRICAL VERTICAL PIPE EQUIPMENT IS NEXT TO THE COLUMN AND INTERRUPTS DECK SPAN.



SLABS ON COMPOSITE METAL DECK



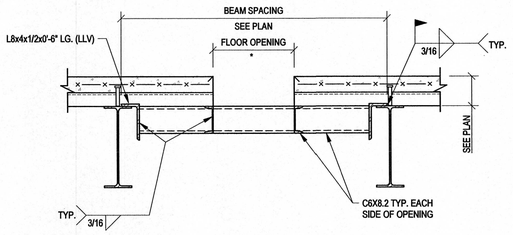
PLAN VIEW

COMPOSITE BEAMS

NOTE: IF A CONDUIT PASSES WITHIN 8" OF A SHEAR STUD, THAT STUD SHALL BE CONSIDERED INEFFECTIVE. IN SUCH CASE, AN ADDITIONAL STUD SHALL BE ADDED 8" CLEAR OF CONDUIT IN THE DIRECTION AWAY FROM THE MID-POINT OF BEAM SPAN.

EMBEDDED CONDUIT IN SLABS ON METAL DECK

NOTE:
- CONDUITS ARE PRHOBITED WITHIN FIRE RATED SLABS.
- CONDUITS SHALL BE SECURED IN PLACE TO PREVENT SHIFTING DURING CONCRETE PLACEMENT.
- UNCOATED ALUMINUM CONTRACT WITH CONCRETE IS PROHIBITED.

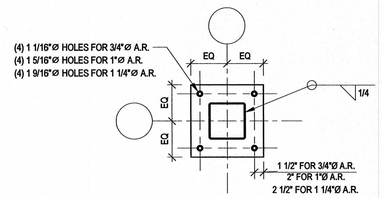


* FOR ALL FLOOR OPENINGS 12" OR GREATER. COORDINATE OPENING SIZES AND LOCATIONS WITH ARCHITECT & MECHANICAL CONTRACTOR.

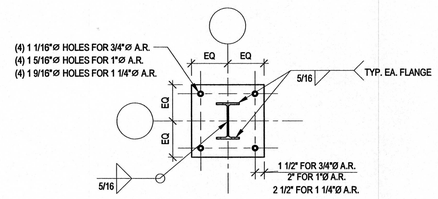
TYPICAL FLOOR OPENING DETAIL

CONCRETE BEAM SCHEDULE

MARK	BEAM SIZE		REINFORCING				STIRRUPS			TYPE	REMARKS
	WIDTH	DEPTH	BOTTOM	TOP			QUANTITY				
				L. SUPP.	CONT.	R. SUPP.	SIZE/SET	L. SUPP.	R. SUPP.		
CB-1	12"	60"	(3) - #7	(3) - #7	(3) - #7	(3) - #7	#3/1	12" OC	12" OC	CLOSED	-



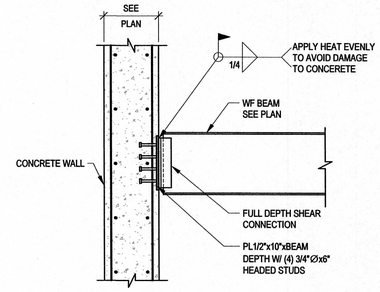
TUBE COLUMN



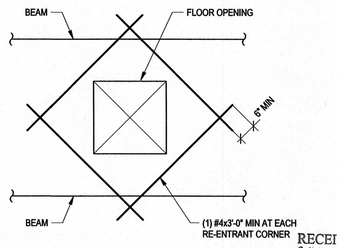
WIDE FLANGE COLUMN

COLUMN BASE PLATE DETAILS

*NOTE: LARGER HOLES FOR ANCHOR RODS ARE PERMITTED, PROVIDED THAT PLATE WASHERS ARE USED IN ACCORDANCE WITH AISC 15th EDITION MANUAL, TABLE 14-2.



TYPICAL BEAM TO CONCRETE WALL DETAIL



TYPICAL REINFORCING AT FLOOR OPENINGS BETWEEN BEAMS

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Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant: K2M DESIGN

K2M DESIGN
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Key West, Florida
Naples, Florida
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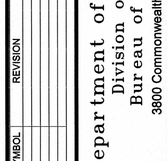

Steven S. Grasley, PE No. 73110
Expiration Date: 02/28/2027
CA #: 30645

JOHN PENNEKAMP

Sheet Title: TYPICAL FRAMING DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: S300

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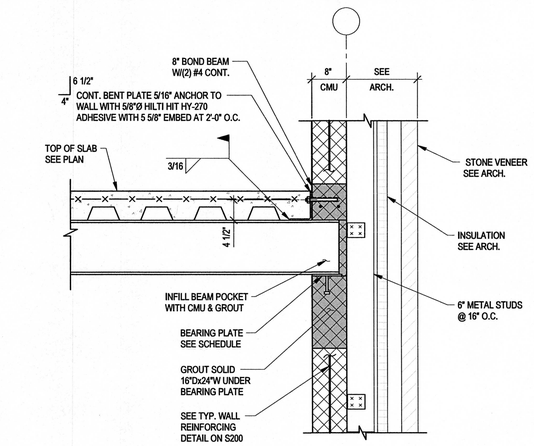
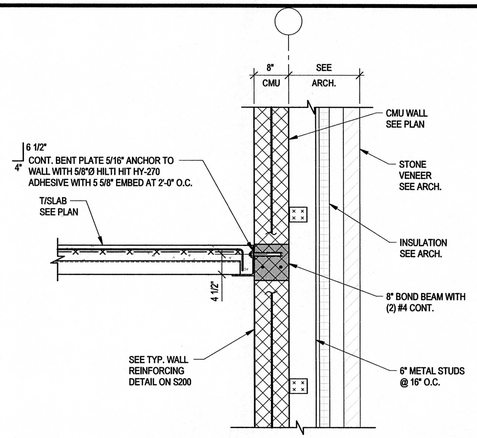


SECTION 1
3/4" = 1'-0"



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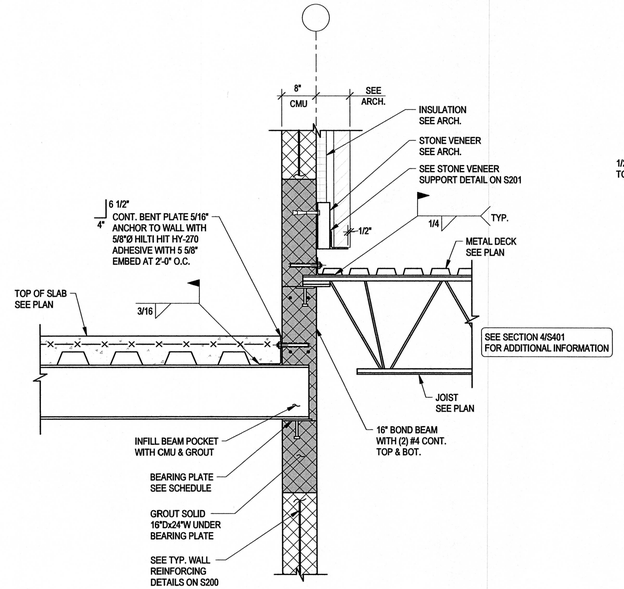

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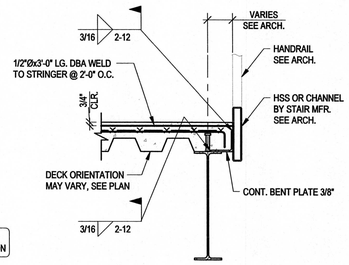

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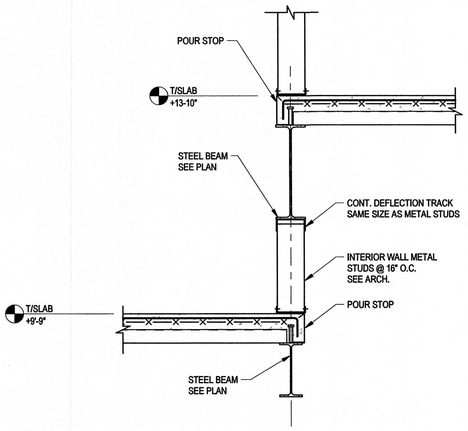

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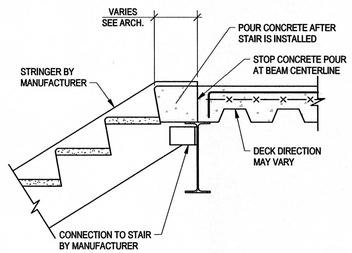

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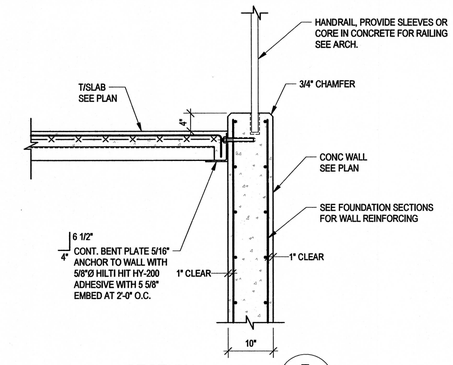

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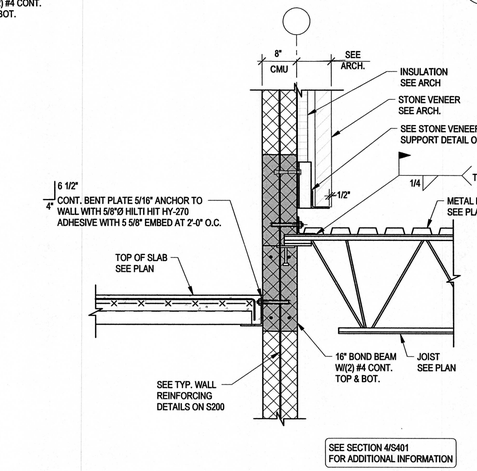

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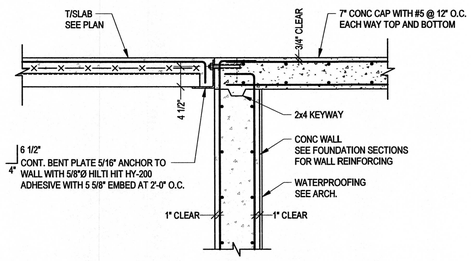

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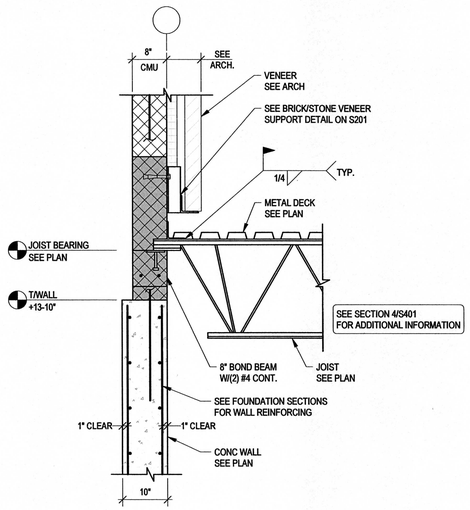

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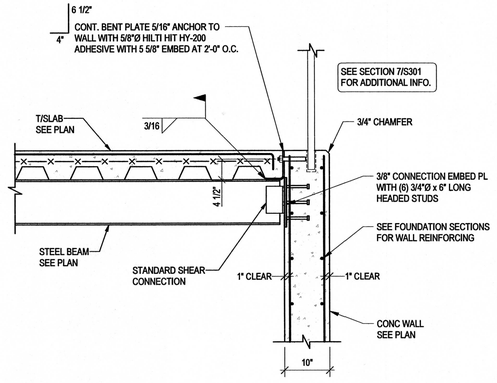

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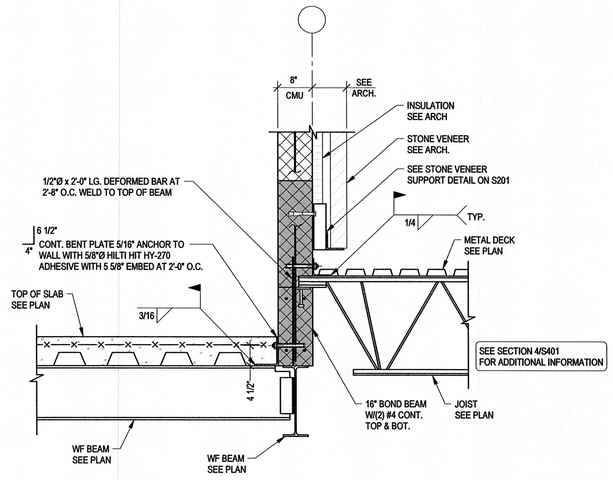

SECTION 12
3/4" = 1'-0"

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Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 05/02/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

DESIGN
K2M
Key Largo, Florida
Key West, Florida
Miami, Florida
www.k2mdesign.com
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Architecture, Engineering, Interior Design, Facility Asset Management

STEVEN S. GRASLEY LICENSE No. 73110 STATE OF FLORIDA PROFESSIONAL ENGINEER
Steven S. Grasley, P.E. #73110
Expiration Date 02/28/2027
CA/LA # 30844

JOHN PENNEKAMP
FRAMING SECTIONS
Sheet Title:

Project Title:
NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S301

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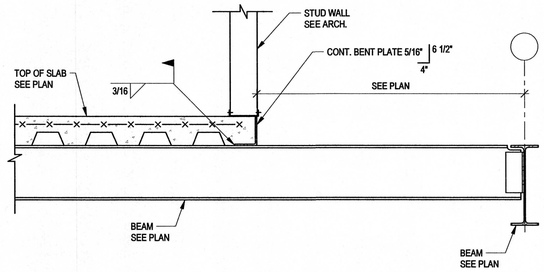

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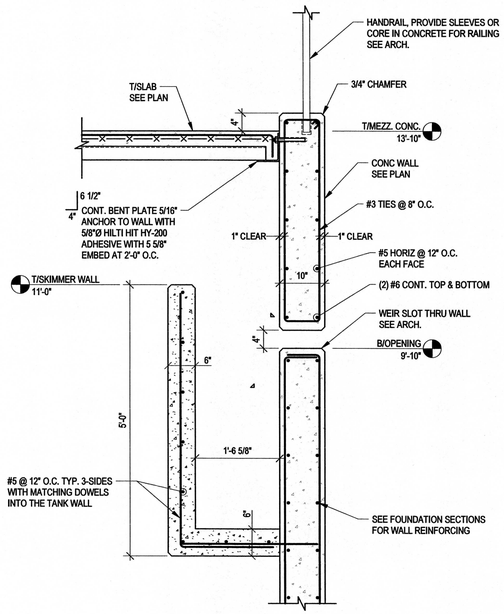

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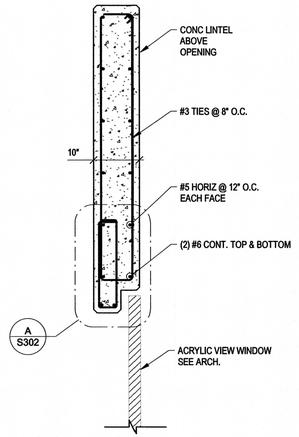

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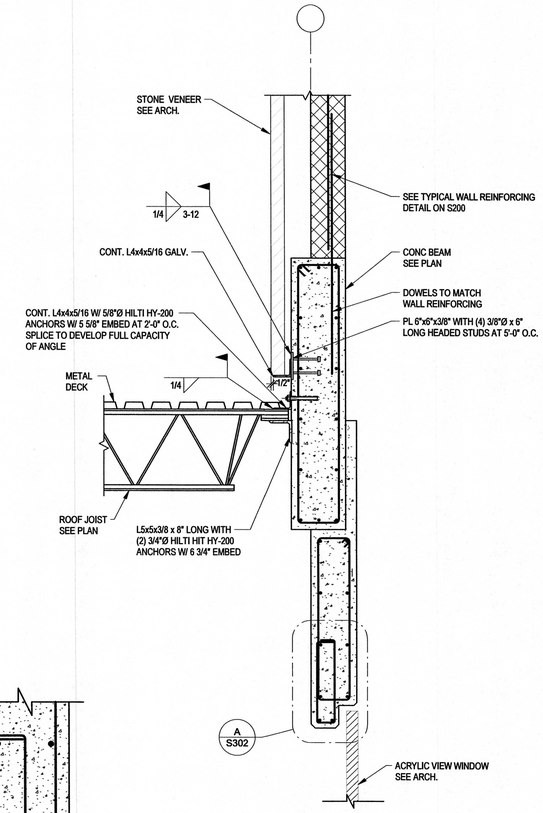

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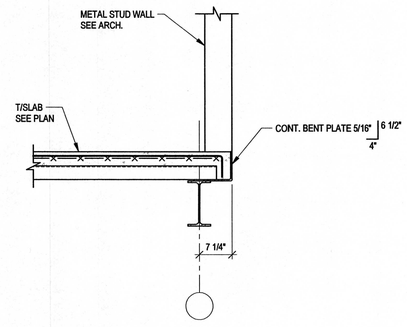
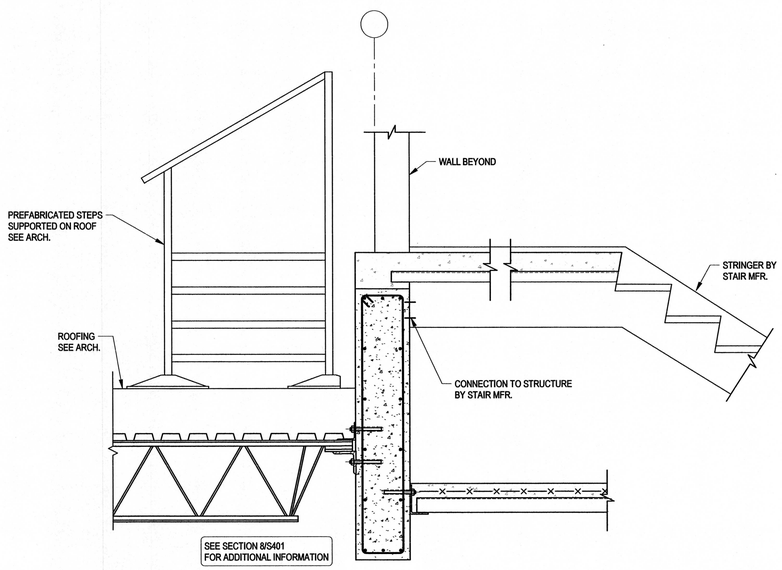


SECTION 5 / 3/4" = 1'-0"



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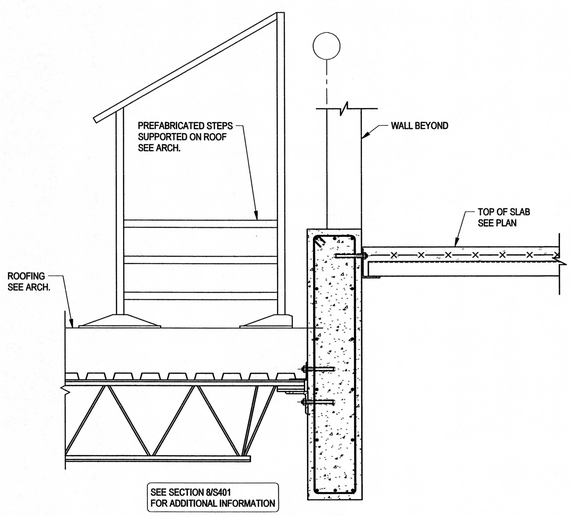
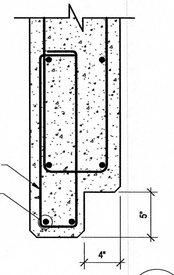
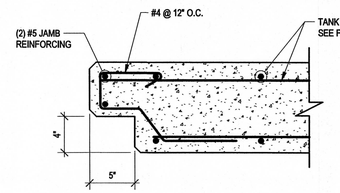


SECTION 7 / 3/4" = 1'-0"

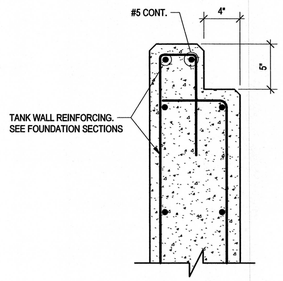


DETAIL A / 1 1/2" = 1'-0"



ACRYLIC WINDOW JAMB DETAIL

DETAIL B / 1 1/2" = 1'-0"



ACRYLIC WINDOW SILLE DETAIL

DETAIL C / 1 1/2" = 1'-0"

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DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

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Key West, Florida
Miami, Florida
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Steven S. Grasley, License # 73110
Expiration Date: 02/28/2027
CA, Sheet(s)

JOHN PENNEKAMP

Sheet Title: FRAMING SECTIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S302

PLOTTED:
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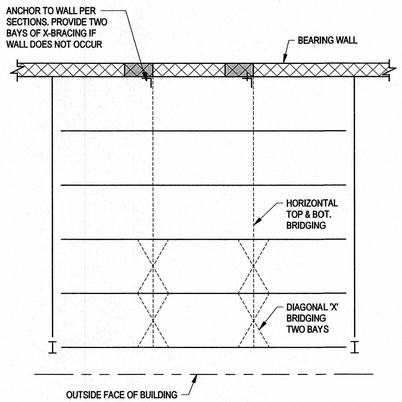
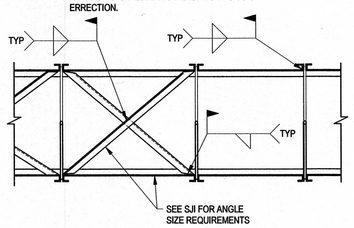
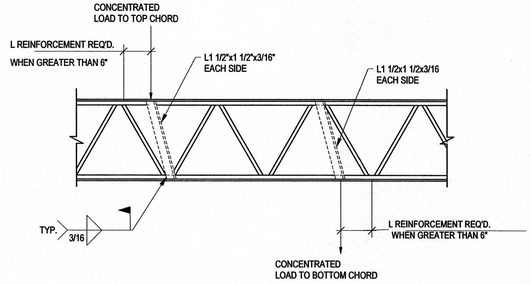


NOTES:

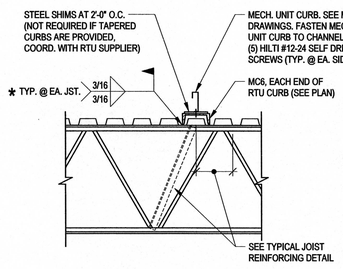
- SEE STEEL JOIST INSTITUTE FOR NUMBER OF ROWS OF BRIDGING PER BAY.
- JOIST SUPPLIER TO PROVIDE ADDITIONAL ROWS OF BRIDGING AS REQUIRED FOR UPLIFT.
- EACH DISCONTINUOUS END OF EACH LINE OF BRIDGING SHALL TERMINATE WITH X-BRACING AS SHOWN.
- X-BRIDGING SHALL BE INSTALLED DURING JOIST ERRECTION.



TYPICAL BRIDGING DETAILS

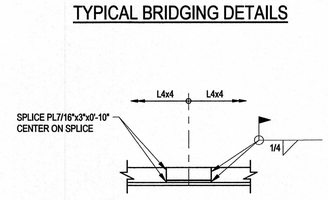


TYPICAL JOIST REINFORCING DETAIL

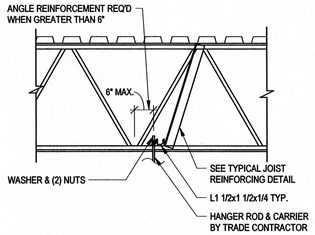


✱ USE CAUTION WHEN WELDING AS NOT TO DAMAGE JOIST

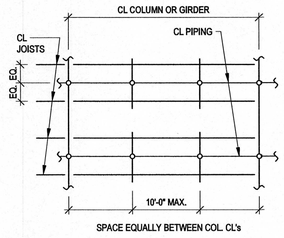
TYPICAL ROOFTOP MECHANICAL UNIT SUPPORTS



ANGLE CHORD SPLICE DETAIL

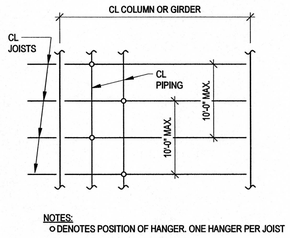


PIPE HANGER CONNECTION DETAIL



SPACE EQUALLY BETWEEN COL. CL's

PIPING PARALLEL TO JOIST



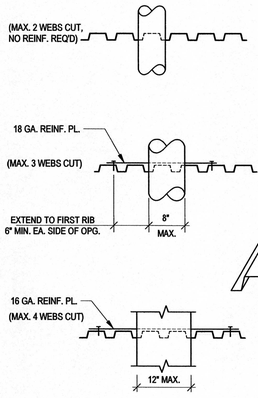
NOTES:
○ DENOTES POSITION OF HANGER. ONE HANGER PER JOIST

PIPING PERPENDICULAR TO JOIST

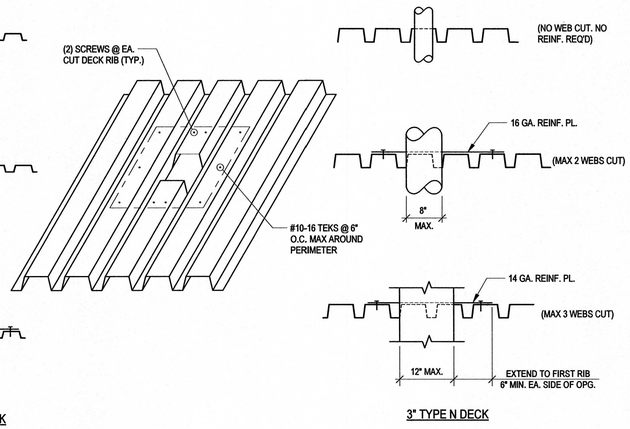
PIPE HANGER SPACING DIAGRAMS

(FOR PIPES HAVING DIAMETER OF 8" OR LARGER)

NOTE:
THIS DETAIL INDICATES HOW LARGE PIPES SHOULD BE SUPPORTED. THIS DOES NOT PERMIT THE HANGING OF LARGE PIPES FROM JOISTS. UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER. CONTRACTOR TO COORDINATE LOCATION OF PIPES WITH STRUCTUREAL ENGINEER.



1 1/2" TYPE B DECK



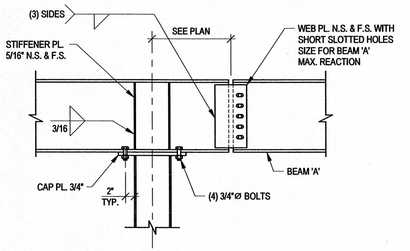
3" TYPE N DECK

TYPICAL ROOF DECK PENETRATION REINFORCING DETAILS

NOTES:

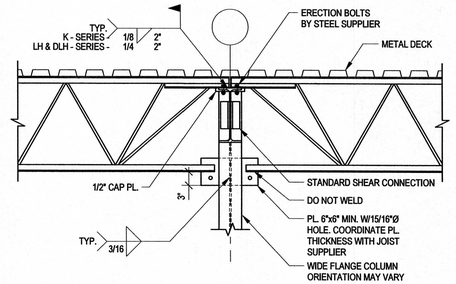
- HOLES ARE LIMITED TO ONE PER SPAN PER DECK SHEET. FOR MULTIPLE HOLES, CONSULT ENGINEER OR PROVIDE SUPPORT FRAME PER TYPICAL ROOF OPENING DETAIL.
- SEE TYPICAL ROOF OPENING DETAIL FOR OPENINGS GREATER THAN 12".

HSS COLUMN



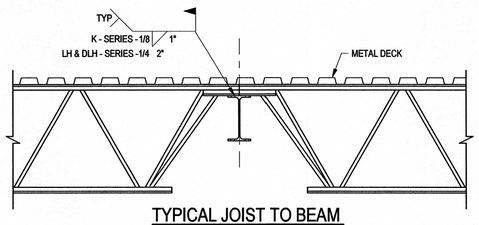
WF COLUMN

TYPICAL BEAM OVER COLUMN DETAIL

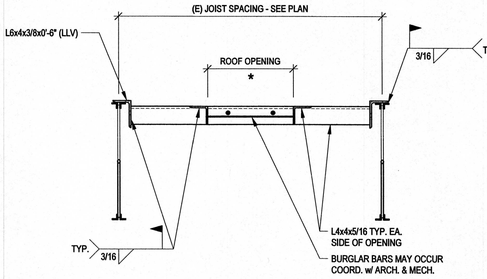


NOTE:
BOLT TOP CHORD OF JOIST TO COLUMN. PLUMB BUILDING. FIELD WELD TOP CHORD AS INDICATED.

TYPICAL JOIST TO COLUMN CONNECTION DETAIL - ROOF



TYPICAL JOIST TO BEAM CONNECTION DETAIL - ROOF



✱ FOR ALL ROOF OPENINGS 12" OR GREATER. COORD. OPENING SIZES AND LOCATIONS WITH ARCHITECT & MECHANICAL CONTRACTOR.

TYPICAL ROOF OPENING DETAIL

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Bureau of Design and Construction
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SYMBOL	REVISION	DATE

ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN867

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

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Key West, Florida
Miami, Florida
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Architecture, Engineering, Interior Design, Planning, Facility Asset Management



Steven S. Grasley, License # 73110
Expiration Date 02/28/2027
EA # 30464

JOHN PENNEKAMP

Sheet Title: TYPICAL ROOF DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S400

PLOTTED:
12/12/2025 3:47:09 PM

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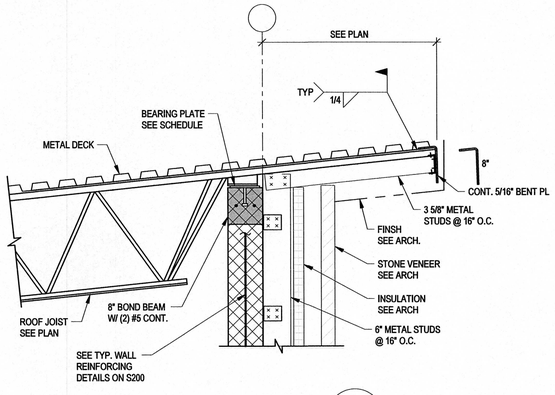
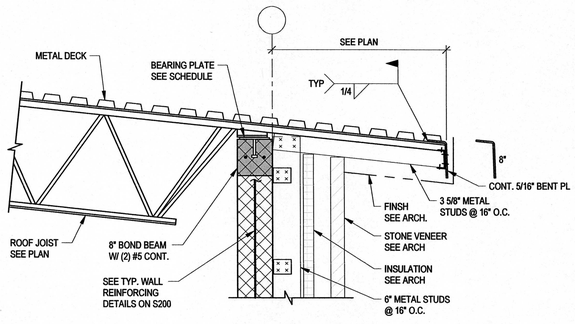


SECTION 1
3/4" = 1'-0"



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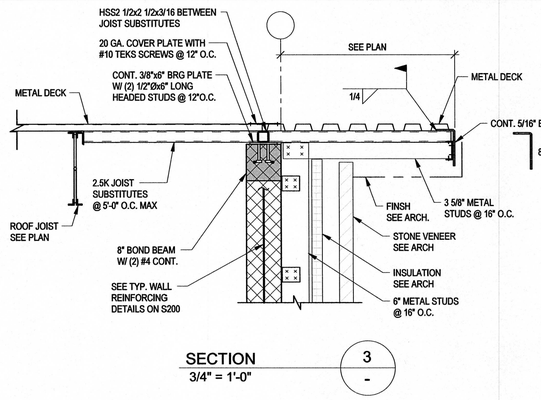

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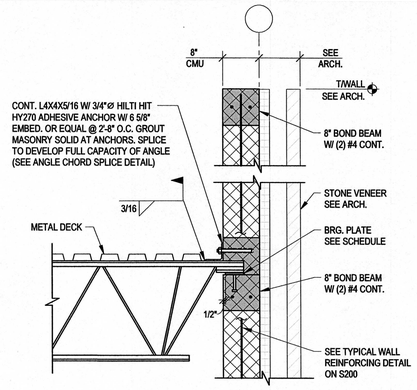

SECTION 4
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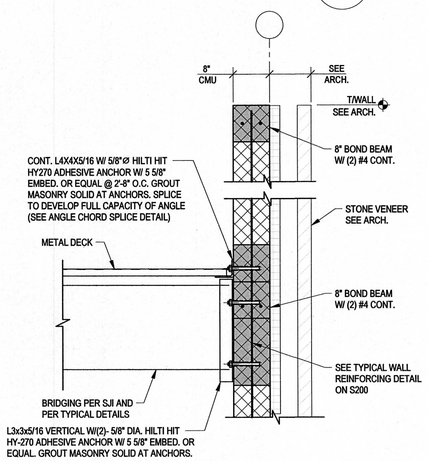

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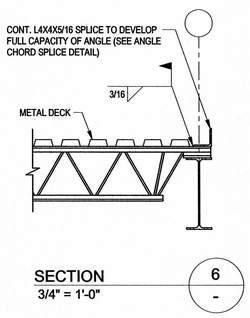

SECTION 6
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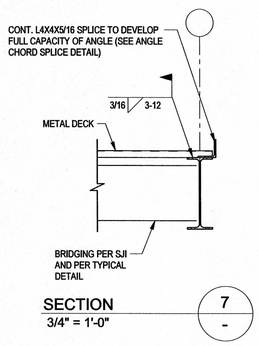

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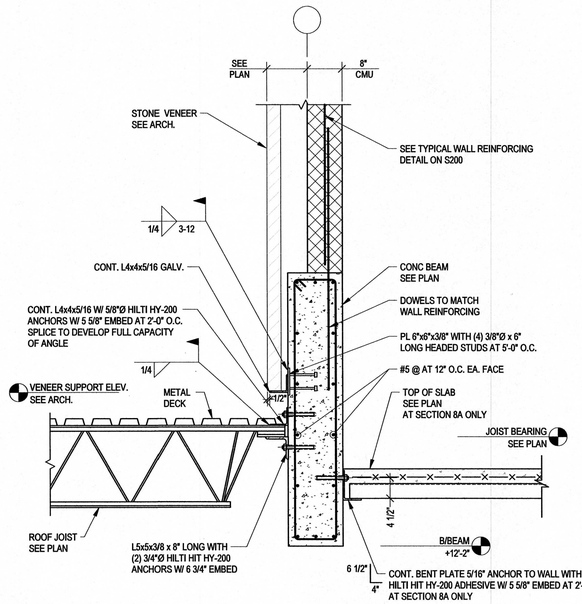
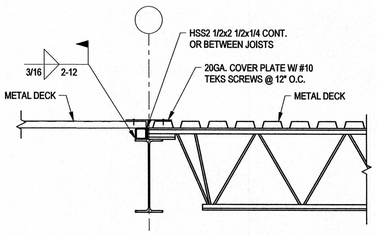
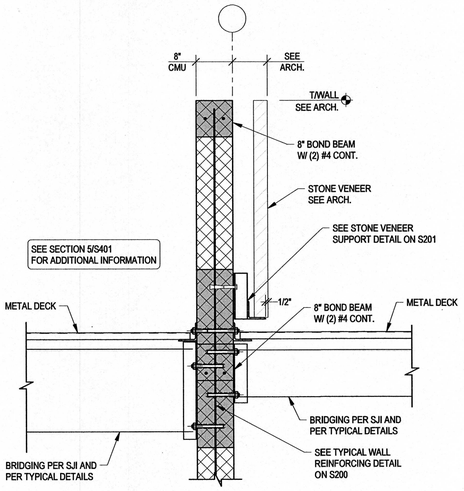


SECTION 8 8A
3/4" = 1'-0"



TYPICAL ROOF DECK DIRECTION
CHANGING WITH BEAM

SECTION 9
3/4" = 1'-0"



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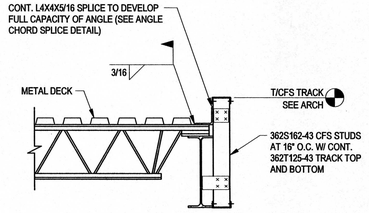

SECTION 11
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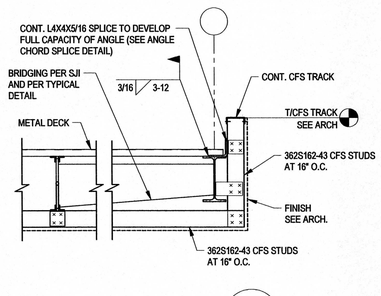

SECTION 12
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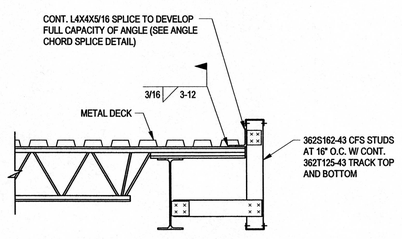
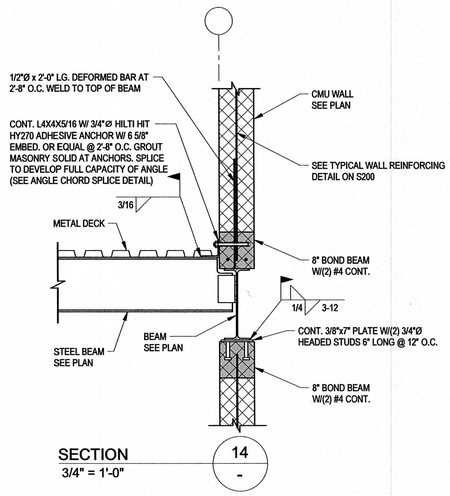


SECTION 13
3/4" = 1'-0"



SECTION 14
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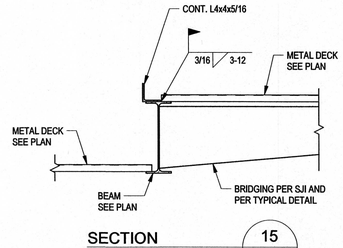

SECTION 15
3/4" = 1'-0"

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Based on True and Reasonable
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Construction Cost Guidelines

DESIGNER: RM
DRAWN BY: SJ
REVIEWED BY: RM
Consultant:

K2M DESIGN
Architecture, Engineering,
Planning
Facility Asset Management

SYMBOL	REVISION	DATE

ISSUE DATE: 05/30/2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STEVEN S. GRASLEY * STATE OF FLORIDA * REGISTERED PROFESSIONAL ENGINEER * No. 73110 * LICENSED
Steven S. Grasley, License # 73110
Expiration Date 02/28/2027
CA # 30643

JOHN PENNEKAMP

Sheet Title: ROOF SECTIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
S401

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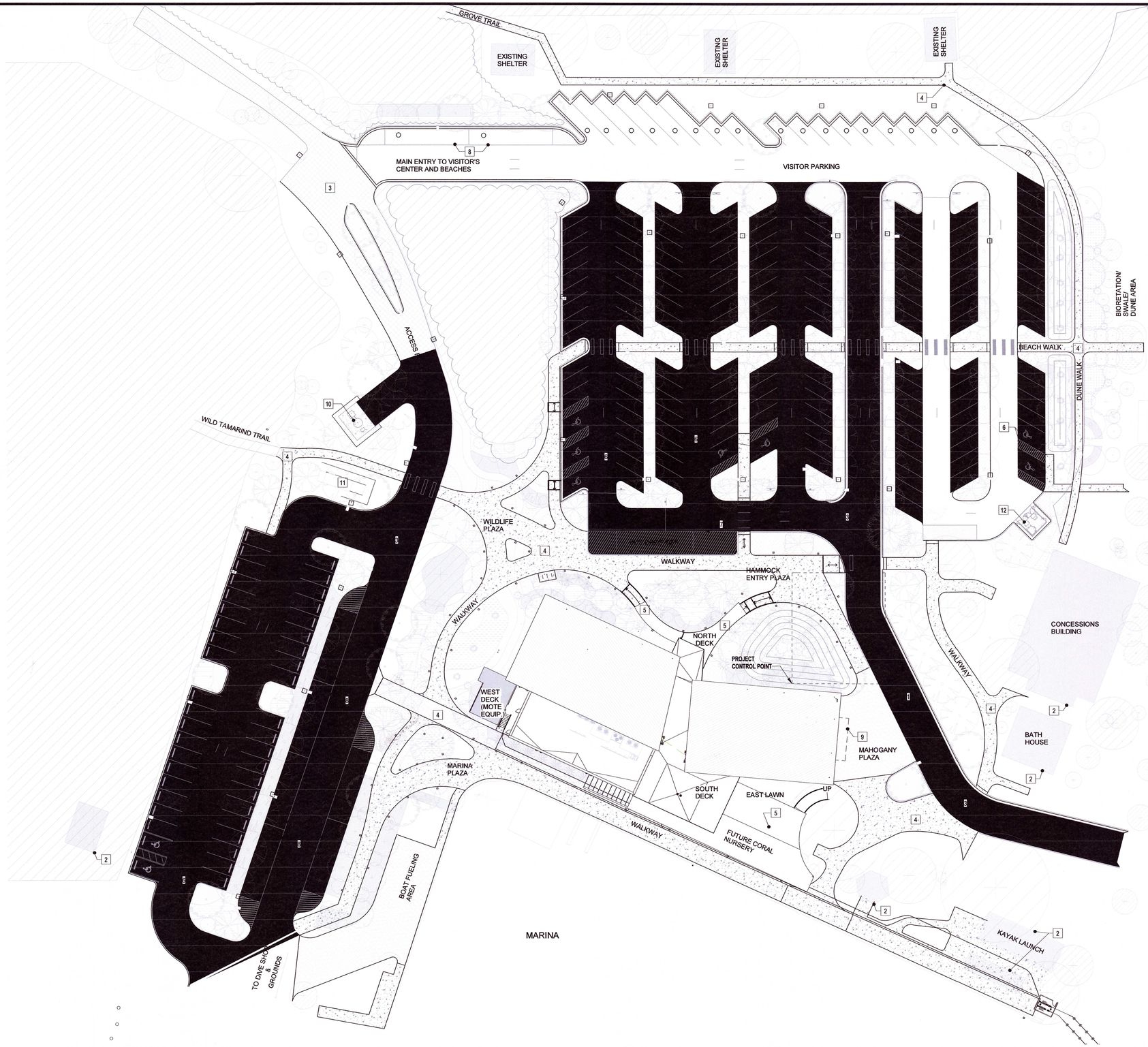

N

1 SITE PLAN

1/32" = 1'-0"

0' 8' 16' 32' 64'

GENERAL SITE NOTES:

1. REFER TO CIVIL AND LANDSCAPE FOR SITE WORK
2. EXISTING EXHIBITS BUILDING TO REMAIN OPERATIONAL UNTIL THE COMPLETION OF NEW INTERPRETIVE CENTER.
3. ROAD WORK TO BE PHASED TO MINIMALLY IMPACT SITE OPERATIONS
4. GC TO PROVIDE PUMP HOUSE FOR SEAWATER INTAKE PUMP STATION. BASIS-OF-DESIGN: JACOBS MANUF. CORP.: FIBERGLASS BUILDING: https://jacobsmfgcorp.com/building, 4'-0" MAX. HEIGHT, STYLE TO BE CONFIRMED AND APPROVED BY OWNER / ARCHITECT VIA SUBMITTAL.

CODED NOTES SITE PLAN

NUMBER	NOTE
1	EXISTING EXHIBITS BUILDING TO REMAIN OPERATIONAL UNTIL THE COMPLETION OF NEW INTERPRETIVE CENTER. REFER TO CIVIL.
2	EXISTING STRUCTURE TO REMAIN. REFER TO CIVIL.
3	NEW ROAD, REFER TO CIVIL
4	NEW SIDEWALK, REFER TO CIVIL
5	ACCESSIBLE RAMP
6	ADA PARKING STALLS
7	BUS DROP OFF ZONE
8	BOAT TRAILER PARKING
9	FOOD TRUCK AND PARKING PAD.
10	NEW LIFT STATION, REFER TO CIVIL
11	GENERATOR PAD, REFER TO CIVIL
12	DUMPSTER ENCLOSURE

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
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Key West, Florida
Marathon, Florida
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ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STATE OF FLORIDA
SCOTT C. MALONEY
REGISTERED ARCHITECT
Scott C. Maloney, AR0015659
Date: 12/12/2025
COA # AA26001059

JOHN PENNEKAMP

Sheet Title: ARCHITECTURAL SITE PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
AS100

PLOTTED:
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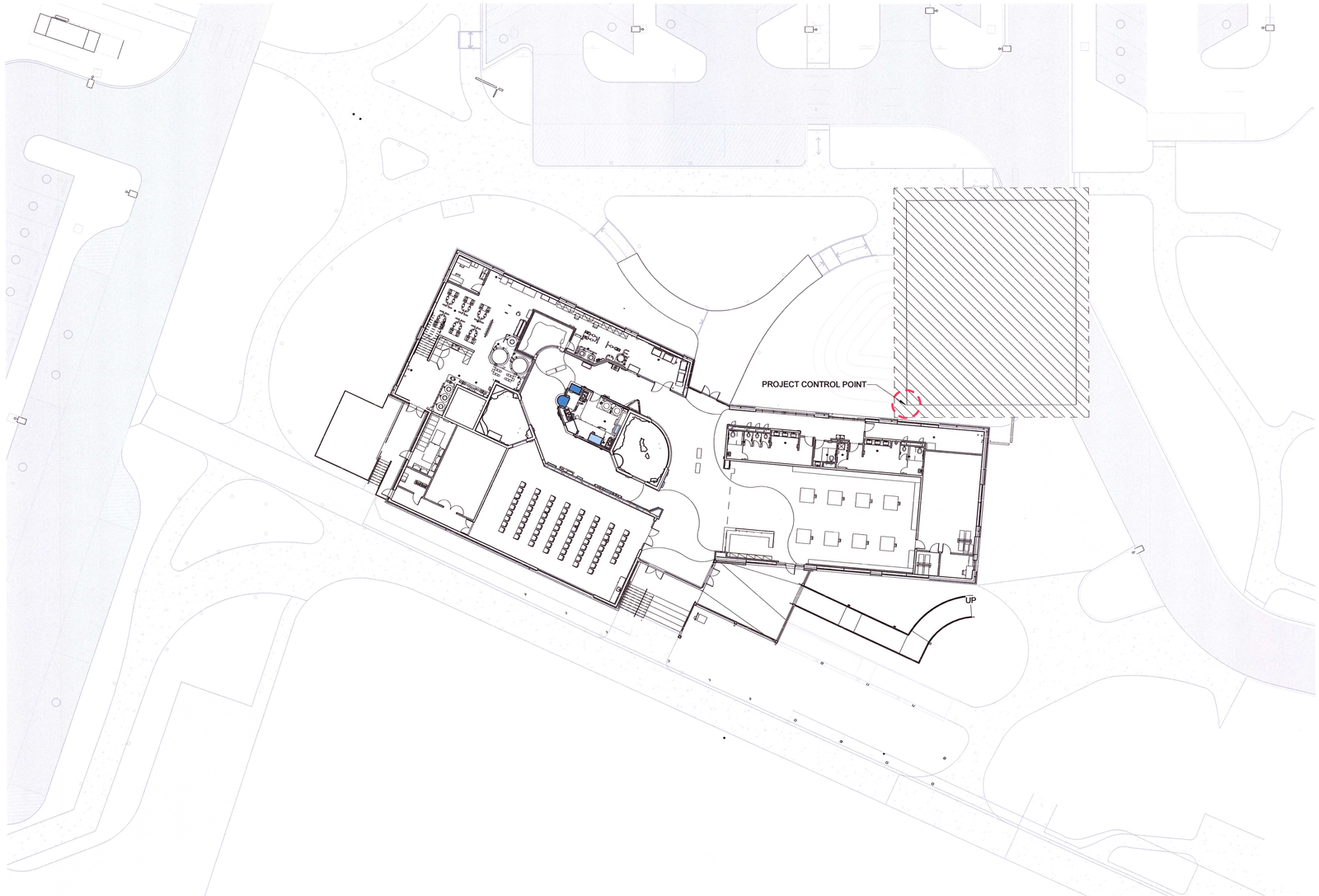

1 01 Demo Site Plan
3/64" = 1'-0"

GENERAL DEMOLITION NOTES:

1. EXISTING BUILDING TO REMAIN DURING CONSTRUCTION OF NEW STRUCTURE. CONTRACTOR MUST TAKE CARE TO ALLOW THE EXISTING BUILDING TO BE COMPLETELY OPERATIONAL DURING CONSTRUCTION.
2. ONCE PROPOSED BUILDING IS COMPLETED AND THE MARINE LIFE FROM THE EXISTING BUILDING IS SUCCESSFULY TRANSFERRED OVER TO THE NEW TANKS SHAL THE CONTRACTOR BEGIN THE PROCESS OF DEMOLITION OF THE EXISTING STRUCTURE.
3. SEE GENERAL PROJECT NOTES FOR RELATED INFORMATION.
4. ALL DIRECTIVES GIVEN HENCEFORTH ARE RELATED TO THE "CONTRACTOR'S" SCOPE OF WORK UNLESS EXPLICITLY NOTED OTHERWISE.
5. THE EXISTING CONDITION/DEMOLITION DRAWINGS ARE INTENDED AS A GENERAL GUIDE TO THE DEMOLITION REQUIRED FOR THIS PROJECT. DEMOLITION IS NOT SHOWN IN COMPLETE DETAIL AND IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTORS TO REMOVE EXISTING CONSTRUCTION AS REQUIRED TO ACCOMPLISH THE NEW DESIGN INTENT AND/OR WORK SHOWN OR REASONABLY IMPLIED FOR CONSTRUCTION OF THE FLOOR PLAN. REMOVE ALL EXISTING ITEMS SHOWN IN THE DRAWING SET INDICATED TO BE DEMO'D WITHIN THE ENTIRE DRAWING THE SET UNLESS OTHERWISE NOTED TO REMAIN OR TO BE REUSED. COORDINATE ALL DEMOLITION WITH OTHER TRADES AND AS NOTED IN THE MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DEMOLITION DRAWINGS AND NOTES.
6. WHERE ANYTHING INDICATED TO BE REMOVED, REMOVE THE ENTIRE SYSTEM INCLUDING ALL APPURTENANCES TO FACILITATE NEW CONSTRUCTION AS SHOWN IN THE CONSTRUCTION DOCUMENTS UNLESS DIRECTED OTHERWISE BY THE ARCHITECT.
7. WHERE ANYTHING IS INDICATED TO BE SALVAGED, "REMOVED AND RELOCATED," OR ANY OTHER SIMILAR TERM, THE CONTRACTOR SHALL STORE THE ITEM IN A LOCKED, SECURE, AND ENVIRONMENTALLY PROTECTED LOCATION OF THE CONTRACTOR'S CHOICE UNTIL FUTURE REINSTALLATION. ANY REQUEST FOR ON SITE STORAGE MUST BE MADE IN WRITING AND APPROVED BY THE ARCHITECT. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY CONDITIONAL ISSUE OF ANY SALVAGED ITEM PRIOR TO STORAGE. CONTRACTOR IS LIABLE FOR THE SALVAGED ITEM AND SHALL REPLACE ALL BROKEN OR DAMAGED ITEMS DEEMED UNSUITABLE FOR REUSE BY THE ARCHITECT.
8. CONTRACTOR TO COORDINATE WITH THE ARCHITECT BEFORE REMOVING UNFORESEEN CONDITION ITEMS FOUND WITHIN WALLS, FLOORS, AND CEILINGS THAT RUN THROUGH THE SPACE AND APPEAR TO FEED ADJACENT AREA(S) INCLUDING BUT NOT LIMITED TO ELECTRICAL, PLUMBING, FIRE PROTECTION, AND MECHANICAL.
9. EXISTING TO REMAIN J-BOXES, SWITCHES, CONTROLS, ETC. LOCATED ON TO BE REMOVED SUBSTRATES ARE TO BE RELOCATED TO ACCOMMODATE CONSTRUCTION ON EITHER NEW CONSTRUCTION OR THE NEAREST EXISTING WALL. COORDINATE WITH THE ARCHITECT.
10. REMOVE ALL ABANDONED CONDUIT, DUCTWORK, HANGERS, CEILING TILE, GRID, FRAMING, PIPING, ETC. THROUGHOUT WORK AREA.
11. EXERCISE CARE SO THAT ONLY THE CONSTRUCTION INDICATED OR REASONABLY IMPLIED TO BE REMOVED SHALL BE DEMOLISHED. THE EXISTING CONSTRUCTION TO REMAIN SHALL BE LEFT INTACT AND UNDAMAGED. ANY DAMAGE WILL BE REQUIRED TO BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PROJECT INCLUDING AREAS OUTSIDE OF THE EXTENTS OF WORK.
12. KEEP THE PROJECT SITE CLEAN AT ALL TIMES. THE CONTRACTOR SHALL SHALL REMOVE THE CONTAINERS FROM THE PROJECT SITE WHEN FULL AND IS RESPONSIBLE FOR FINAL CLEANING OF THE PROJECT SITE. THE CONTRACTOR SHALL REMOVE ALL TOOLS, SURPLUS MATERIALS, AND DEBRIS FROM THE PROJECT SITE AT THE COMPLETION OF THIS PROJECT.
13. LOCATE DUMPSTERS AWAY FROM OPERATING HVAC OUTDOOR AIR INTAKES AND EXTERIOR DOORS TO OCCUPIED AREAS. ALL FLUORESCENT, MERCURY VAPOR, AND LIGHT BALLASTS SHALL BE PROPERLY PACKAGED AND DISPOSED OF AT AN APPROPRIATE DISPOSAL SITE. ALL TEMPORARY POWER IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR. ALL FREON REFRIGERANT SHALL BE REMOVED/RECLAIMED BY A LICENSED CONTRACTOR.
14. ISOLATE WORK AREAS FROM OCCUPIED AREAS USING PHYSICAL BARRIERS, NEGATIVE PRESSURIZATION, AND HEPA FILTRATION. USE LOCAL EXHAUST VENTILATION WITH HIGH-EFFICIENCY PARTICULATE AIR (HEPA) FILTRATION WHERE DUST AND FUME GENERATION WILL OCCUR. NEGATIVELY PRESSURIZE WORK AREAS TO PREVENT MIGRATION OF AIR CONTAMINANTS FROM WORK AREAS TO OCCUPIED AREAS. USE WORK PRACTICES AND MATERIALS THAT RESULT IN LITTLE OR NO GENERATION OF AIRBORNE CONTAMINANTS DURING CONSTRUCTION OR RENOVATION ACTIVITIES, SUCH AS WET METHODS TO SUPPRESS DUST GENERATION. USE HEPA VACUUMS REGULARLY TO CLEAN FLOORS AND LEDGES DURING CONSTRUCTION ACTIVITIES. BLOCK OR SEAL RETURN AIR GRILLES IN CONSTRUCTION OR RENOVATION AREAS. ENSURE EXHAUST FROM AIR FILTRATION UNITS ARE VENTED TO THE OUTSIDE OF THE BUILDING AND AWAY FROM ANY BUILDING AIR INTAKES, EXTERIOR DOORS, AND PERSONNEL.
15. ALL MECHANICAL FLOOR PREPARATION SHALL BE PERFORMED IN EITHER A NEGATIVE PRESSURE ENCLOSURE, WITH HEPA FILTERED PREP EQUIPMENT, OR UTILIZING WET METHODS TO CONTROL DUST. RESPIRATORY PROTECTION IS REQUIRED FOR ALL WORKERS PERFORMING WORK DURING THE PREPARATION AND DURING CLEAN UP ACTIVITIES.
16. ALL CONCRETE CUTTING SHALL BE PERFORMED UTILIZING WET METHODS OR OTHER APPROVED DUST FREE METHOD.
17. CUTTING AND WELDING SHALL COMPLY WITH OSHA REQUIREMENTS. PROVIDE MECHANICAL VENTILATION AND RESPIRATORY PROTECTION DURING WELDING, GRINDING, AND CUTTING OPERATIONS. USE OF HEPA FILTER "SMOKE EATER" VENTILATION IS REQUIRED IN ENCLOSED AND OCCUPIED AREAS. CONTRACTOR WILL PROVIDE FOR A VISUAL BARRIER BETWEEN THE IMMEDIATE WORK AREA AND THE GENERAL PUBLIC DURING WELDING OPERATIONS FOR UV LIGHT CONSIDERATIONS.

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ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN657

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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STATE OF FLORIDA
SCOTT C. MALONEY
ARCHITECT
AR93161
Scott C. Maloney, AR93161
Expiration Date: 02/28/2027
COA # AA26001059

JOHN PENNEKAMP

Sheet Title: BUILDING DEMOLITION COORDINATION PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
AD100

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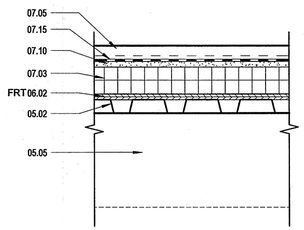
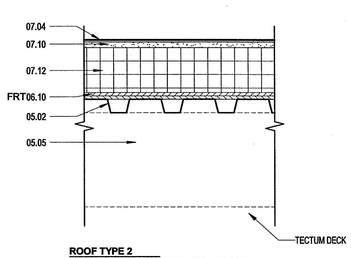


ROOF TYPE 1
STANDING SEAM METAL ROOF ON METAL DECK

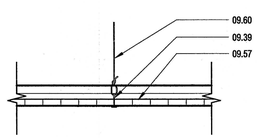


ROOF TYPE 2
SINGLE PLY TPO ROOF ON METAL DECK

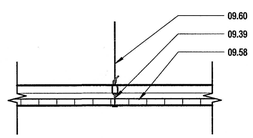
NOTE	DESCRIPTION
03.01	3-1/2" CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING. SEE STRUCTURAL DRAWINGS. (033100)
03.02	4" REINFORCED CAST-IN-PLACE CONCRETE SLAB. SEE STRUCTURAL DRAWINGS. (033100)
03.03	12" REINFORCED CAST-IN-PLACE CONCRETE WALL. SEE STRUCTURAL DRAWINGS. (033100)
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
05.01	STEEL DECKING (053100)
05.02	1.5 WR 22 METAL ROOF DECK (053100)
05.03	COLD-FORMED STEEL FRAMING, 6" (054100)
05.04	7/8" HAT CHANNEL
05.05	STRUCTURAL STEEL FRAMING (REFER TO STRUCTURAL FOR MORE INFORMATION)
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.02	5/8" PT PLYWOOD SHEATHING (061600)
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.03	3" RIGID INSULATION (072100)
07.04	MODIFIED BITUMINOUS MEMBRANE ROOFING (075200)
07.05	STANDING SEAM METAL ROOF (076100)
07.10	COVER BOARD

NOTE	DESCRIPTION
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.13	UHPC ARCHITECTURAL PANEL, BOD: TAKTL
07.14	GRANULAR FILL, 4" UNO
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
09.36	CEMENTITIOUS WOOD FIBER CEILINGS, BOD: TECTUM DIRECT-ATTACHED ACOUSTICAL INTERIOR PANELS, 2". SEE FINISH SCHEDULE FOR COLOR.
09.39	GRID SUSPENSION SYSTEM
09.40	PERFORATED METAL PANEL CEILING SYSTEM, SEE RCPs
09.41	FRP PANEL, SEE FINISH SCHEDULE
09.50	SUPPORTS FOR PLASTER & GYPSUM BOARD (092200)
09.51	2-1/2" METAL STUD FRAMING (092200)
09.52	3-5/8" METAL STUD FRAMING (092200)
09.53	1/2" STUCCO, PAINTED. COLOR TBS BY ARCHITECT. (092400)
09.54	1/2" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.56	7/8" FURRING CHANNEL (092900)
09.57	ACOUSTIC CEILING TILE, 24"X24"3/4" SQUARE EDGE (095100)
09.58	ACOUSTIC CEILING TILE, 48"X24"3/4" SQUARE EDGE (095100)
09.60	CEILING ASSEMBLY, SUSPENSION WIRE (095100)
26.01	BACKLIGHTING AT PERFORATED PANEL, SEE ELECTRICAL SHEETS

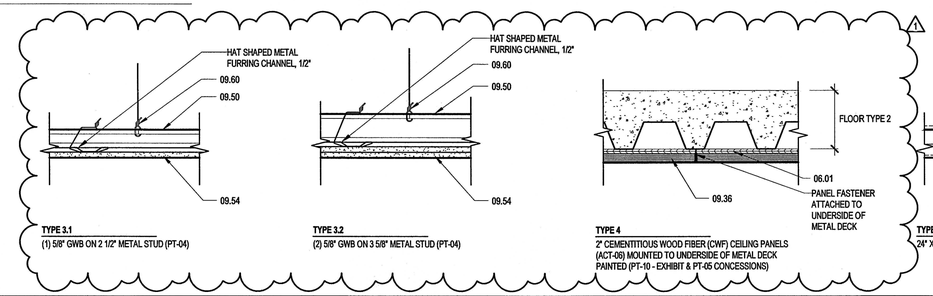
1 ROOF TYPES
1 1/2" = 1'-0"



TYPE 1
24" X 24" ACOUSTIC CEILING PANEL (ACP-01)



TYPE 2
24" X 48" ACOUSTIC CEILING PANEL (ACP-07)



TYPE 3.1
(1) 5/8" GWB ON 2 1/2" METAL STUD (PT-04)

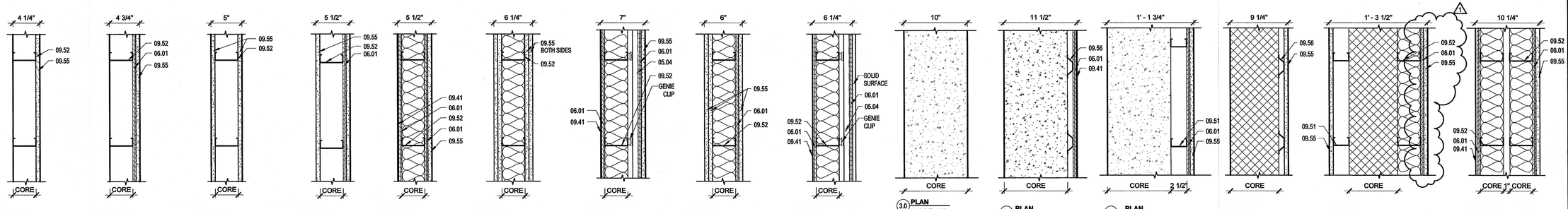
TYPE 3.2
(2) 5/8" GWB ON 3 5/8" METAL STUD (PT-04)

TYPE 4
2" CEMENTITIOUS WOOD FIBER (CWF) CEILING PANELS (ACT-06) MOUNTED TO UNDERSIDE OF METAL DECK PAINTED (PT-10 - EXHIBIT & PT-05 CONCESSIONS)

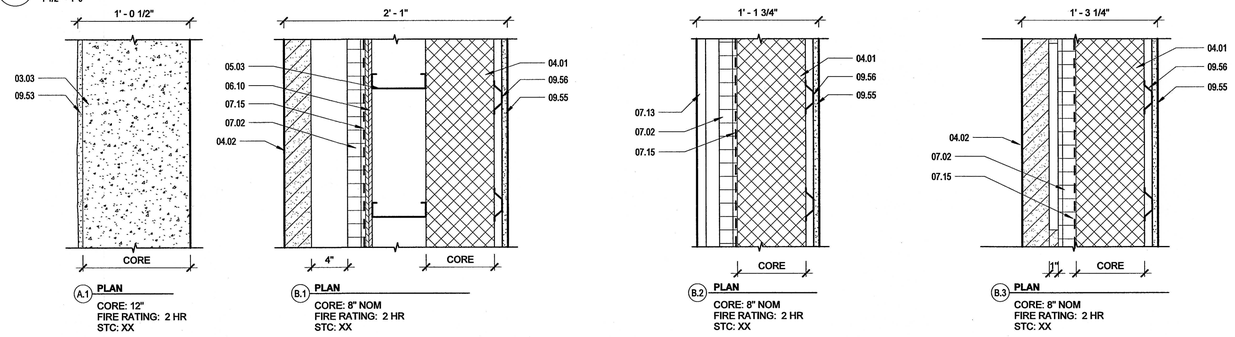
TYPE 5
24" X 48" PERFORATED METAL PANEL (ACT-02, ACT-03 & ACT-04)

TYPE 6
24" X 48" CURVED, PERFORATED METAL PANEL (ACT-05)

2 CEILING TYPES
1 1/2" = 1'-0"

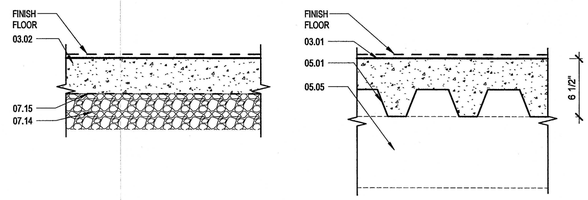


3 INTERIOR WALL TYPES
1 1/2" = 1'-0"



4 EXTERIOR WALL TYPES
1 1/2" = 1'-0"

5 FLOOR TYPES
1 1/2" = 1'-0"



FLOOR TYPE 1
SLAB ON GRADE

FLOOR TYPE 2
CONCRETE SLAB ON COMPOSITE METAL DECK

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: Author
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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CHRISTOPHER C. MALONEY
LICENSED ARCHITECT
No. AR0011611
REGISTERED
Seal: C. Maloney
Expiration Date: 02/28/2027
CAA #: AA26001059

JOHN PENNEKAMP
CONSTRUCTION TYPES
NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Title:
Project Title:
Sheet Number: A001

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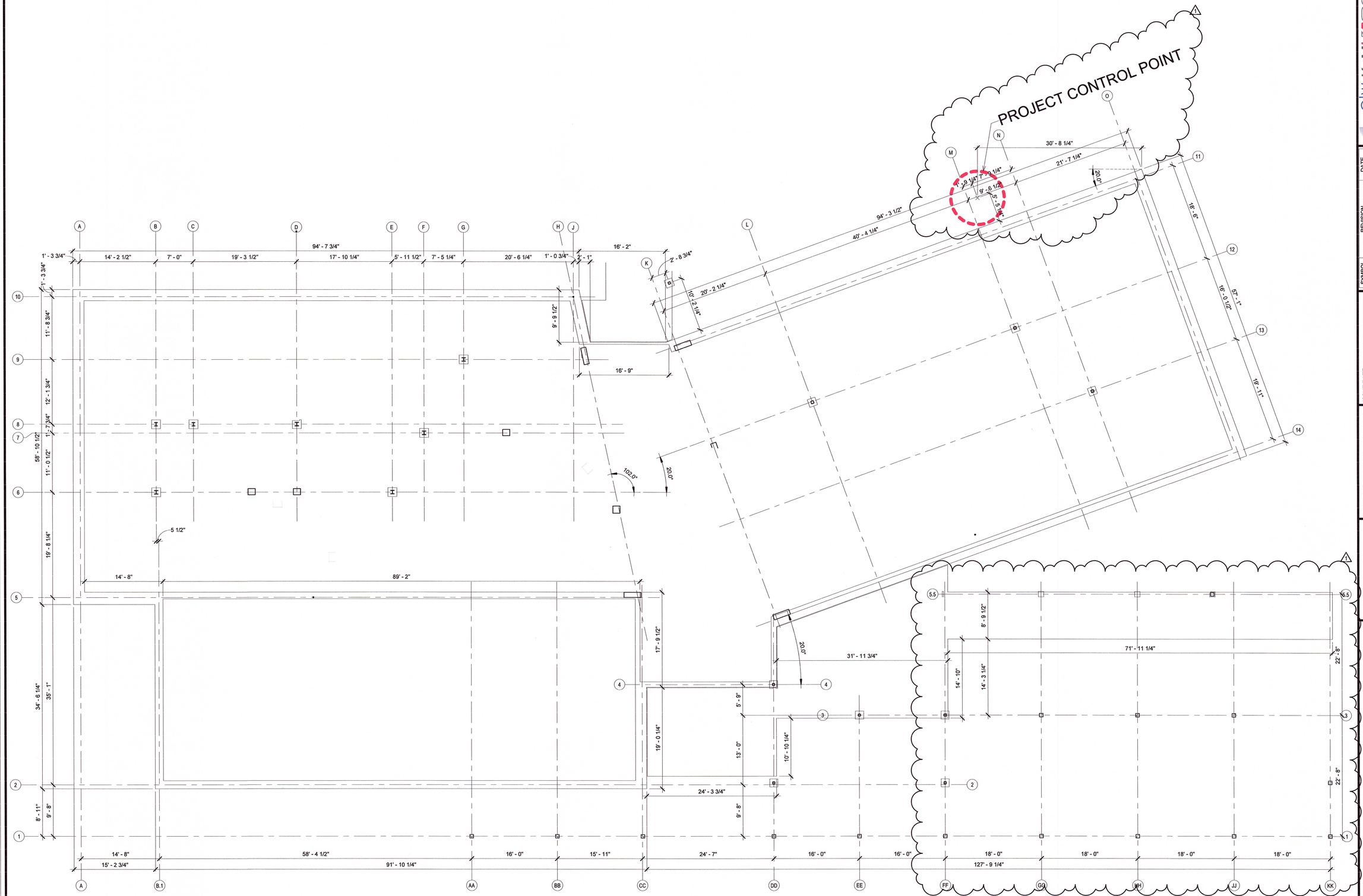

1 REFERENCE PLAN - FIRST FLOOR GRIDS
1/8" = 1'-0"

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
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SCOTT C. MALONEY
REGISTERED ARCHITECT
Scott C. Maloney, Licensed Architect
Engineering Date: 12/12/2025
COA #: AA26001059

JOHN PENNEKAMP

Sheet Title: REFERENCE PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A002

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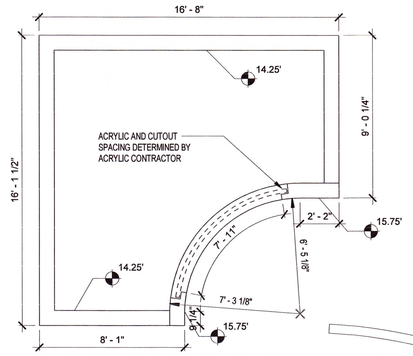
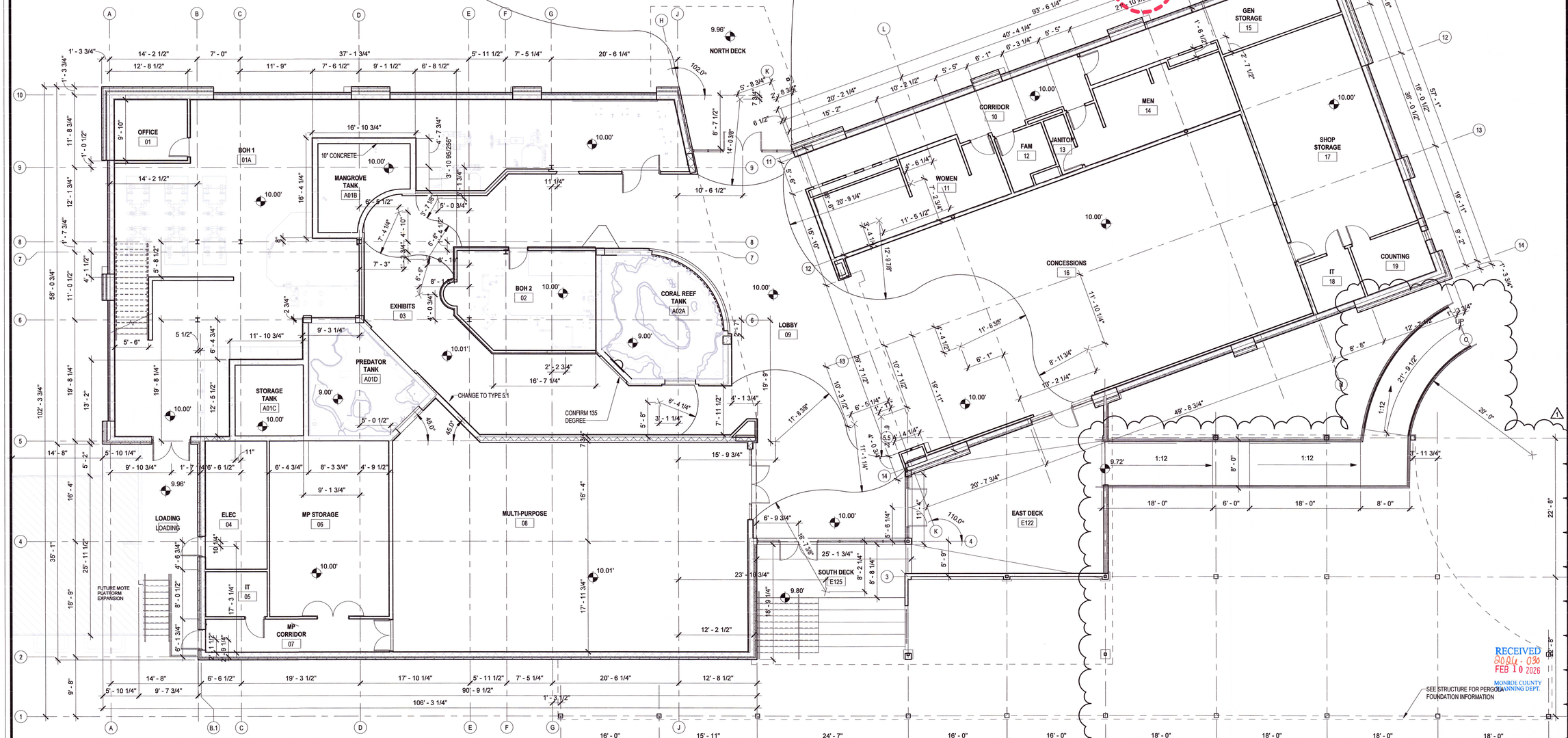


2 MANGROVE CONCRETE DIMENSION PLANS

1/4" = 1'-0"



1 FIRST FLOOR PLAN

1/8" = 1'-0"

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Scott C. Mondell, License No. 0089661
Date signed: 12/12/2025
COA #: AA26001059

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Title: FIRST FLOOR DIMENSION PLAN

Sheet Number: A003

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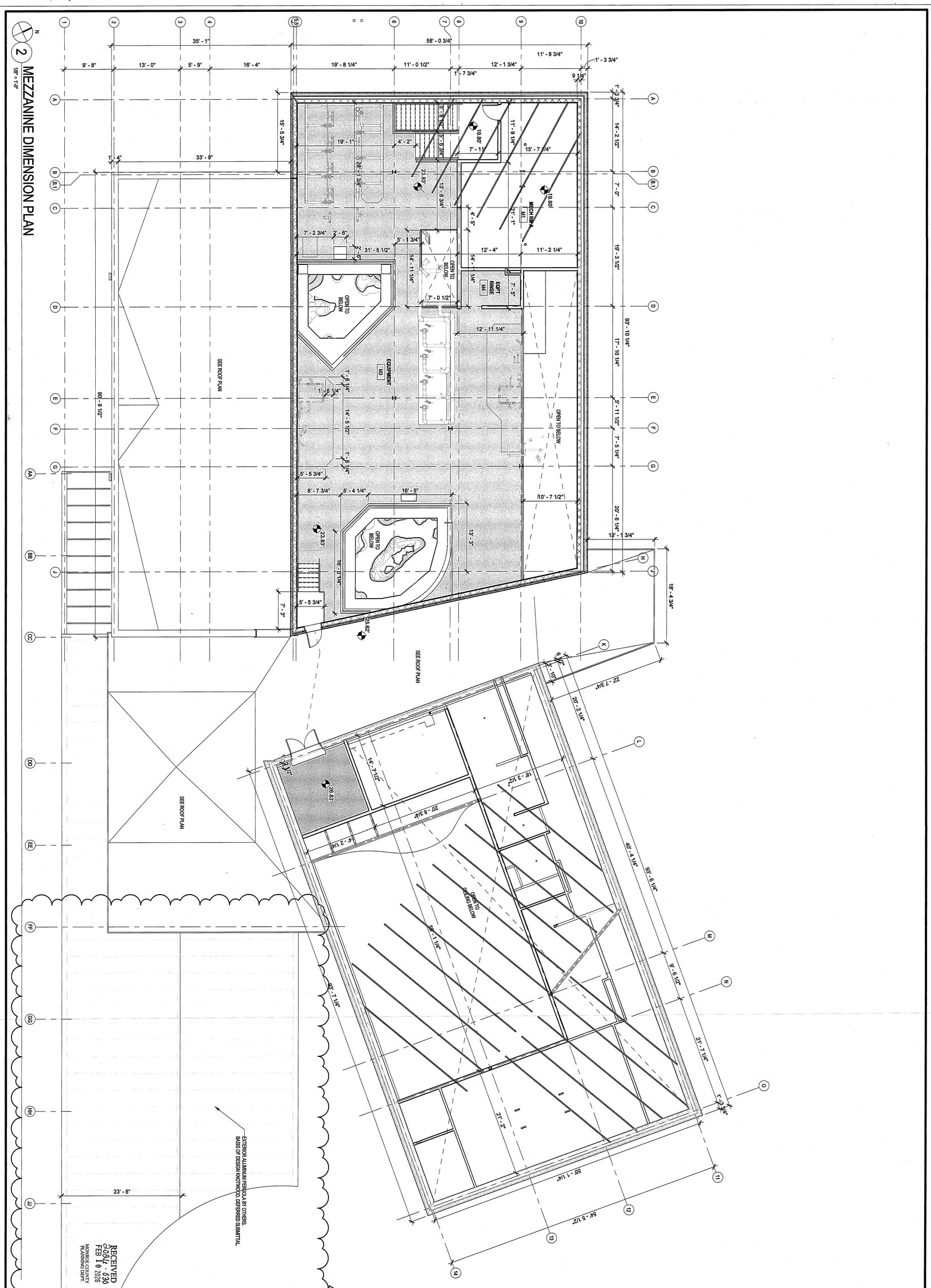

Sheet Number: A004

JOHN PENNEKAMP

Sheet Title: MEZZANINE DIMENSION PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

STATE OF FLORIDA
SCOTT C. MALONEY
AR93161
REGISTERED ARCHITECT
Scott C. Maloney, License # AR93161
Expiration Date 02/28/2027
COA # AA26001059

DESIGNER: GWWO / K2M	ISSUE DATE: 05.16.2025
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1	Revision 1	12/12/2025

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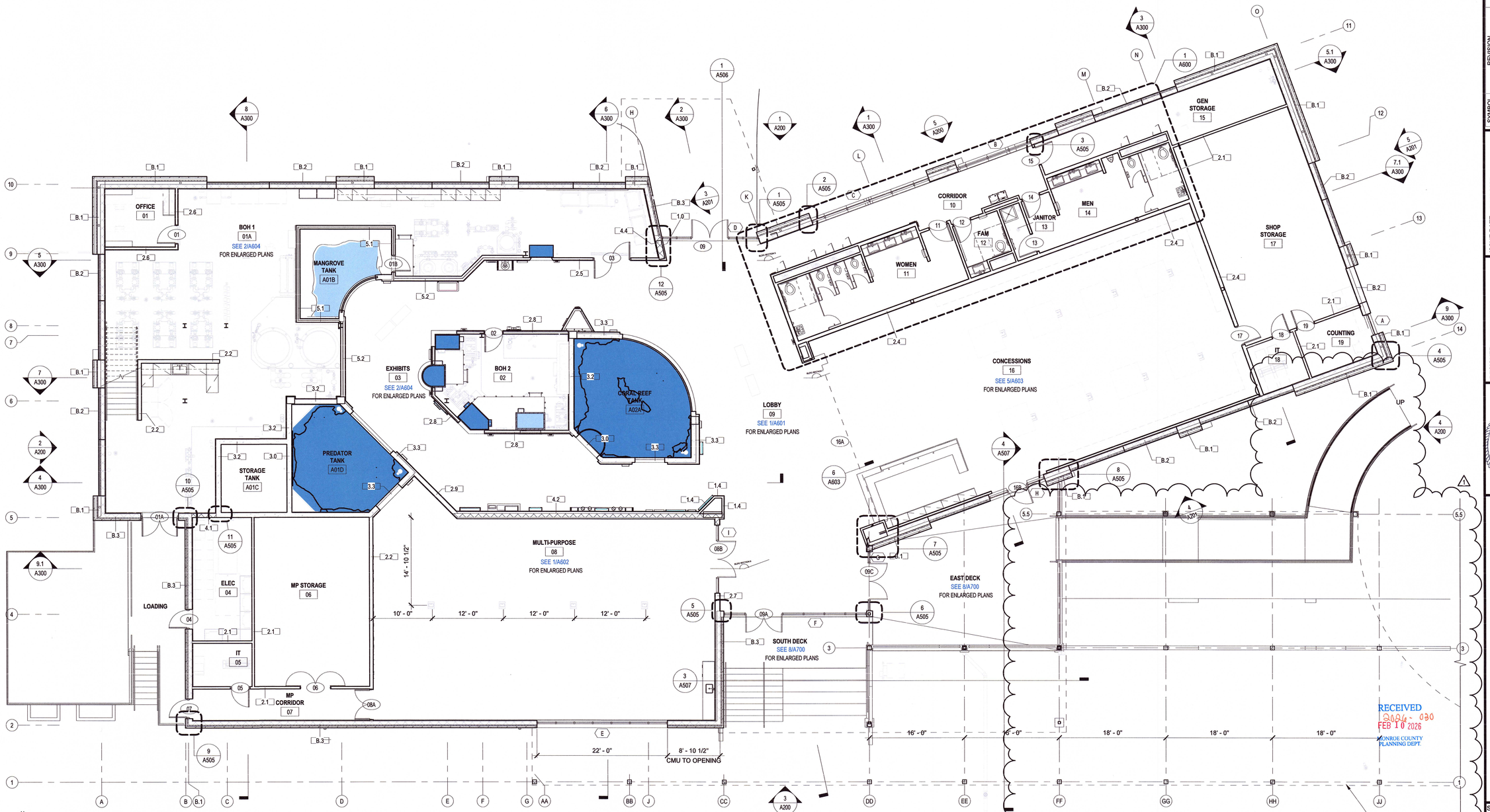
PLAN LEGEND

	NEW PARTIAL HEIGHT WALL
	NEW WALL/ REFER TO WALL TYPES
1	REFER TO WALL TYPES ON A001
101	NEW DOOR. REFER TO DOOR SCHEDULE
	NOTE: DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS OTHERWISE NOTED



1 FIRST FLOOR PLAN
1/8" = 1'-0"

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STATE PROJECT No.: CN667

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REVIEWED BY: CA/ BK
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SCOTT C. MALONEY
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REGISTERED ARCHITECT
Scott C. Maloney, Licensed Architect
Expiration Date: 02/28/2027
COA #: AA26001059

JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A101

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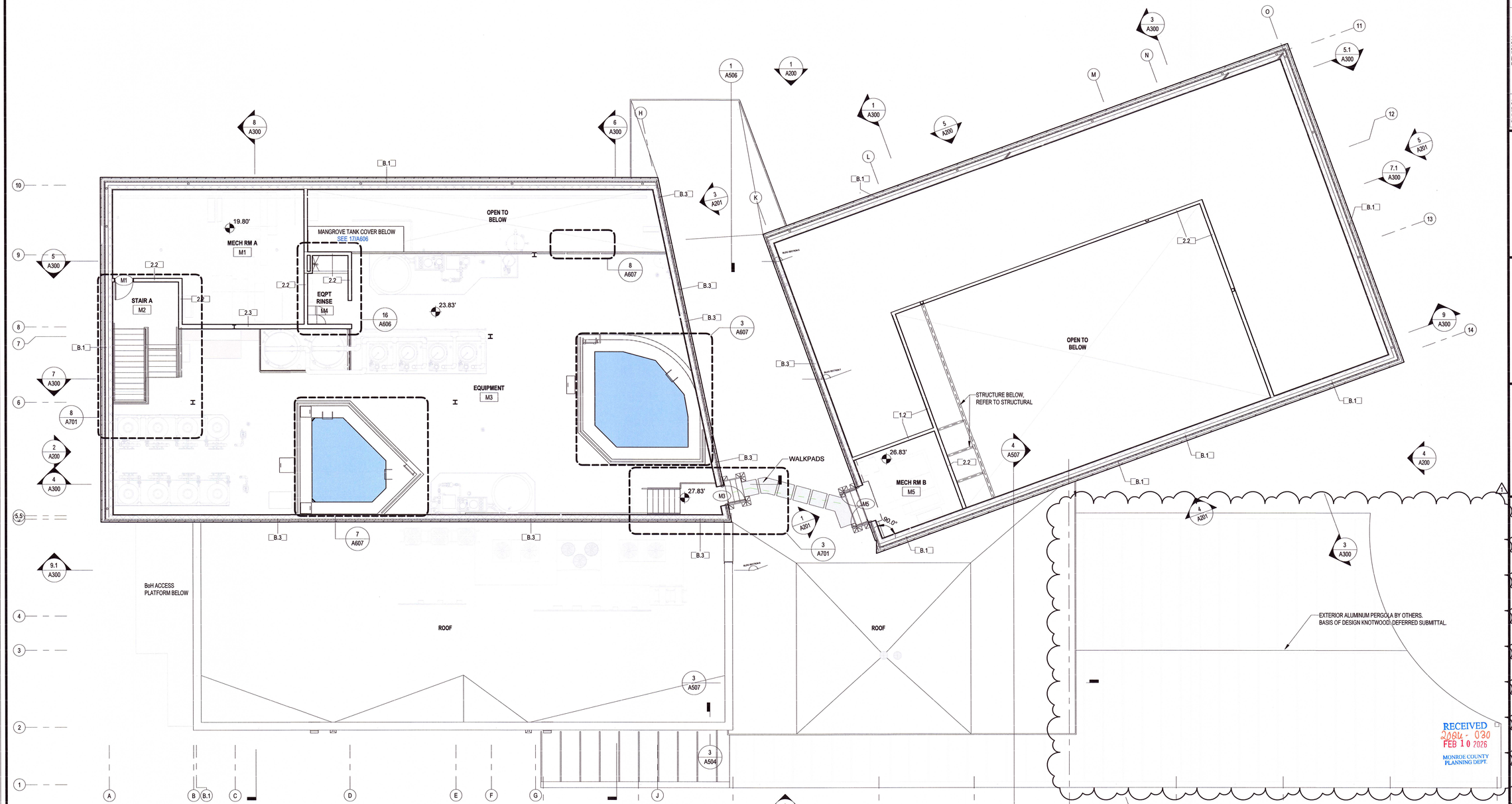
PLAN LEGEND

	NEW PARTIAL HEIGHT WALL
	NEW WALL/ REFER TO WALL TYPES
1	REFER TO WALL TYPES ON A001
101	NEW DOOR. REFER TO DOOR SCHEDULE
	NOTE: DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS OTHERWISE NOTED



1 02 MEZZANINE FLOOR PLAN
1/8" = 1'-0"

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1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK

Consultant: K2M DESIGN
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SCOTT C. MALONEY
AR93161
REGISTERED ARCHITECT

Scott C. Maloney, Licensed Architect
Expiration Date: 02/28/2027
COA # AA26001059

Sheet Title: JOHN PENNEKAMP MEZZANINE FLOOR PLAN

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A102

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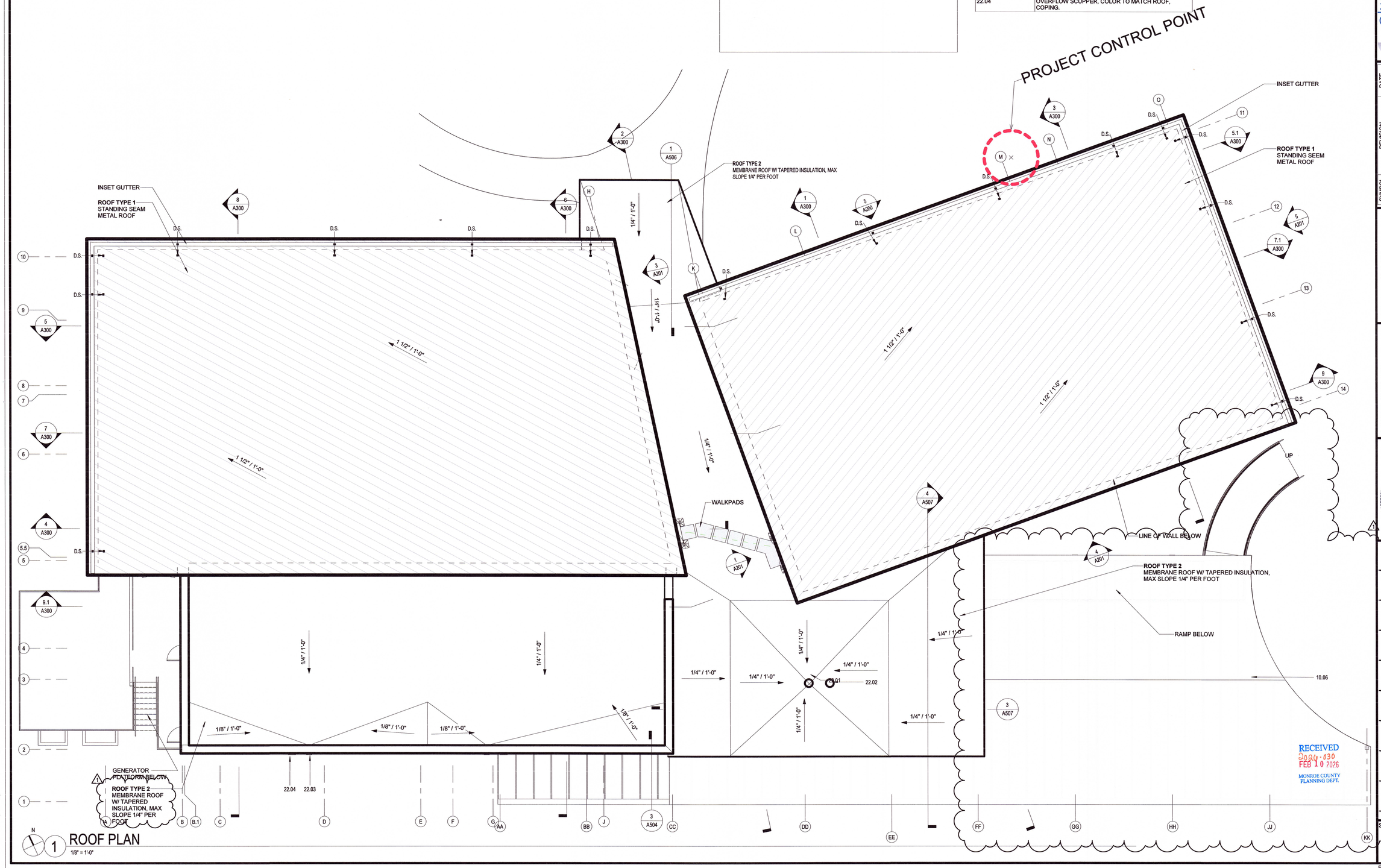
GENERAL ROOFING NOTES:

1. HIDDEN EAVES BOX GUTTER W/ 4"X6" PVC LEADER RAN INTO STUD PORTION OF EXTERIOR WALL, TYP. FOR ROOF TYPE #1. COORDINATE WITH BOOT LOCATION ON CIVIL DRAWINGS. LEADER SHALL BE ENCAPSULATED BY EXTERIOR WALL AND HIDDEN IN EAVE.
2. STANDING SEAMS TO BE INSTALLED PARALLEL TO SLOPE DIRECTION.

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND

Key Value	Keynote Text
10.06	PRE-ENGINEERED ALUMINUM PERGOLA SYSTEM, BOD: KNOTWOOD, COLOR TO MATCH MANUF. STANDARD COLOR SELECTIONS.
22.01	ROOF DRAIN, REFER TO PLUMBING SHEETS.
22.02	OVERFLOW ROOF DRAIN, REFER TO PLUMBING SHEETS.
22.03	SCUPPER & DOWNSPOUT TO DOWNSPOUT BOOT, COLOR TO MATCH ROOF.
22.04	OVERFLOW SCUPPER, COLOR TO MATCH ROOF, COPING.



1 ROOF PLAN
1/8" = 1'-0"

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STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
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Sheet Title: ROOF PLAN
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A104

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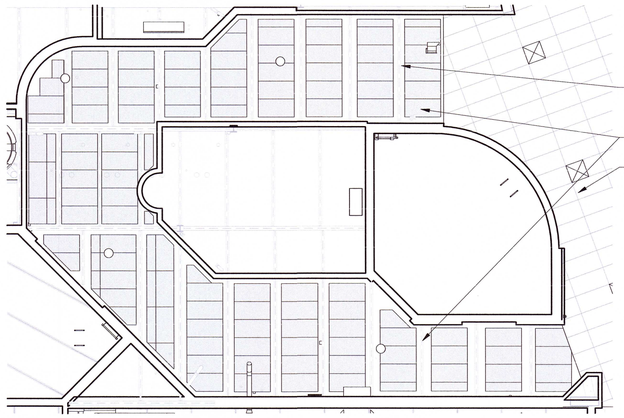
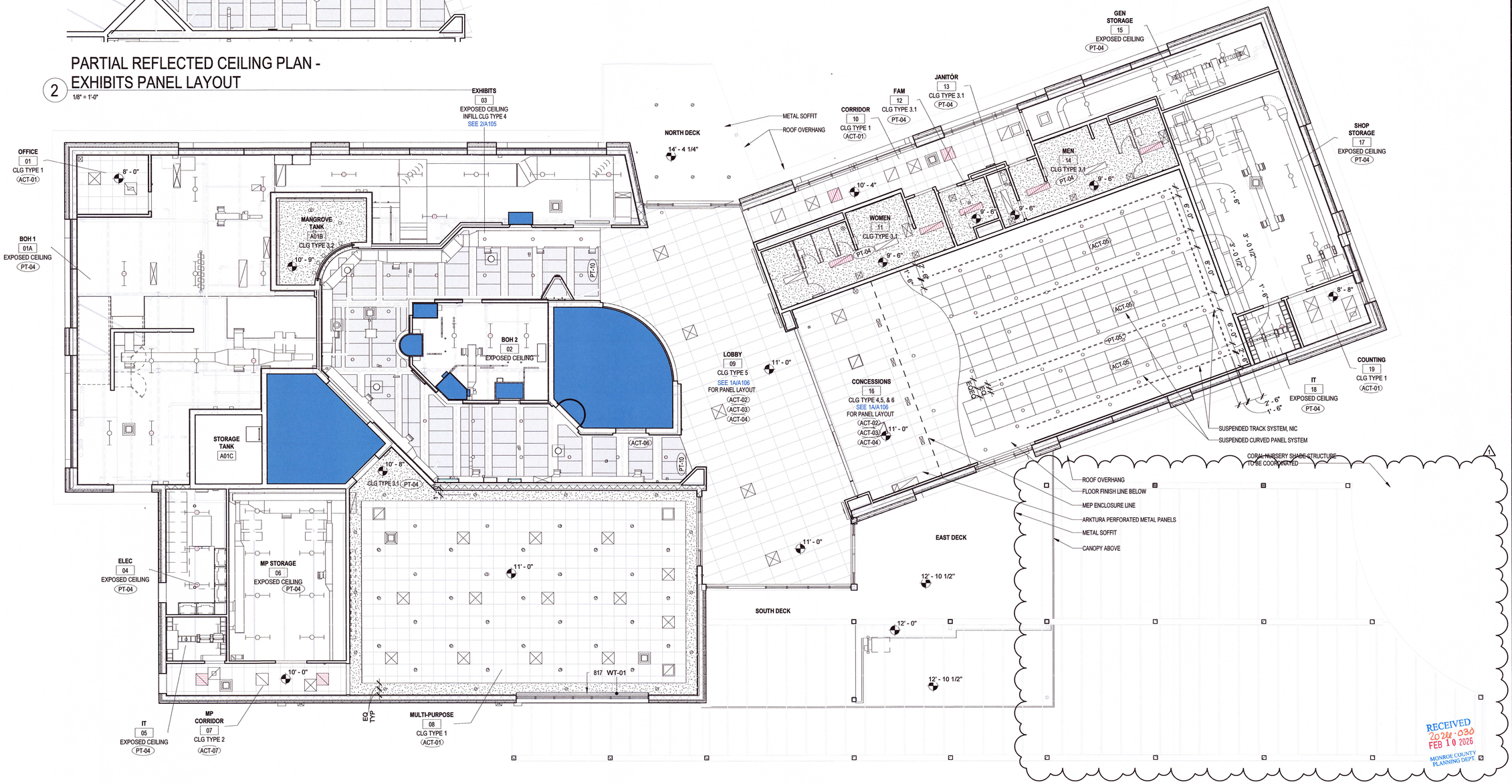


2 PARTIAL REFLECTED CEILING PLAN - EXHIBITS PANEL LAYOUT

1/8" = 1'-0"

CEILING LEGEND

2X2 PARABOLIC LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.	2X4 PARABOLIC LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.
AIR SUPPLY GRILLE. REFER TO MECH.	UTILITY LIGHT. REFER TO ELECTRICAL PLANS.
AIR RETURN GRILLE. REFER TO MECH.	DOWNLIGHTS, REFER TO ELECTRICAL PLANS
2X2 CEILING GRID	WIRELESS ACCESS POINT, REFER TO ELECTRICAL PLANS
2X4 PANEL GRID, CEILING TYPE VARIES, REFER TO CEILING TYPES FOR MATERIAL	SPEAKER, REFER TO ELECTRICAL PLANS
ACOUSTICAL CEILING PANEL (TEXTURED)	CCTV CAMERA, REFER TO ELECTRICAL PLANS
	O.T.S. = OPEN TO STRUCTURE A.C.T. = ACOUSTICAL CEILING TILE



1 FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN567

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REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
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SCOTT C. MATHEWS
LICENSE NO. 70353
REGISTERED LANDSCAPE ARCHITECT
Scott C. Mathews, PLA
Certificate No. 70353
Date: 12/12/2025

JOHN PENNEKAMP

Sheet Title: FIRST FLOOR REFLECTED CEILING PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A105

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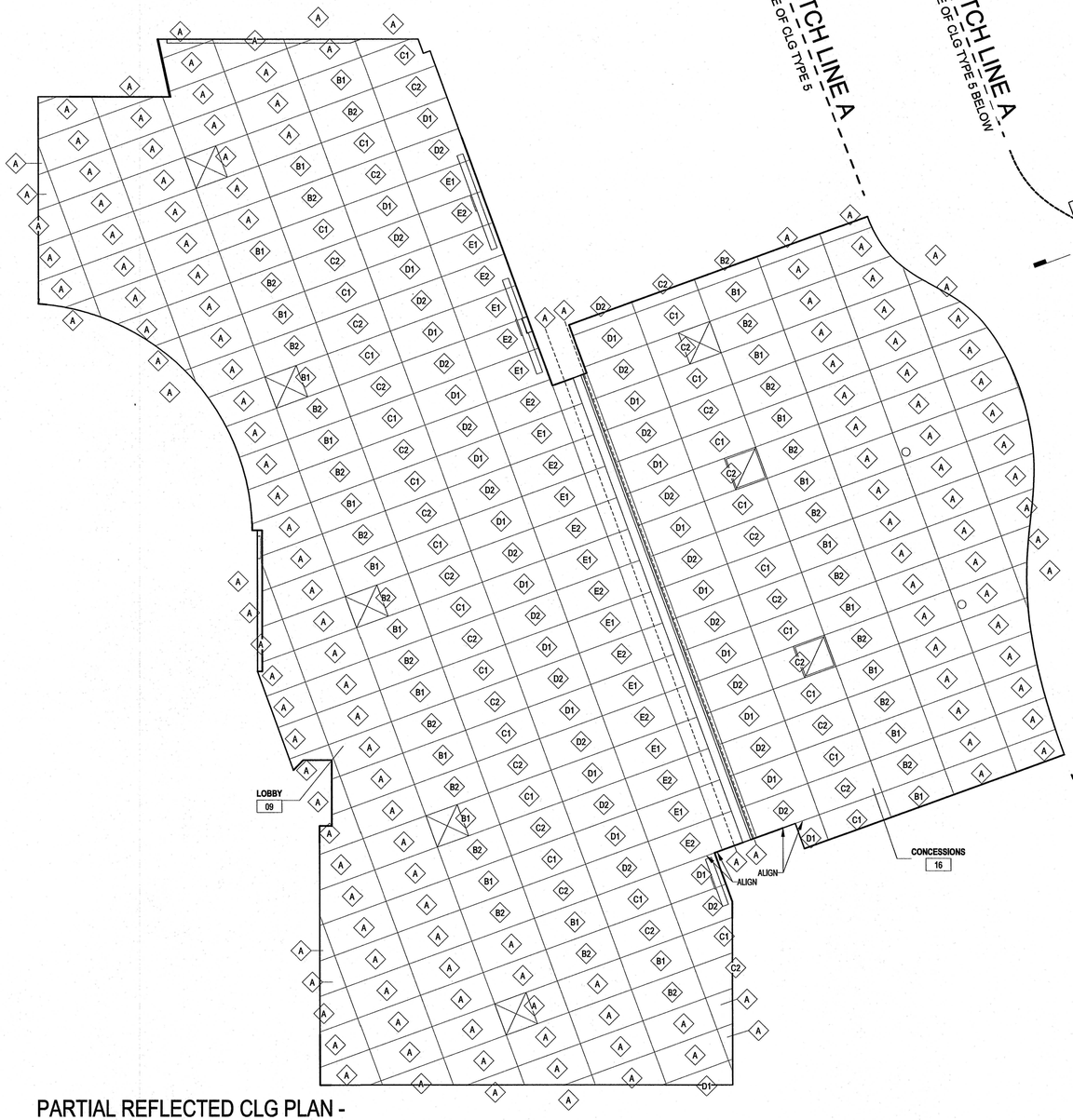
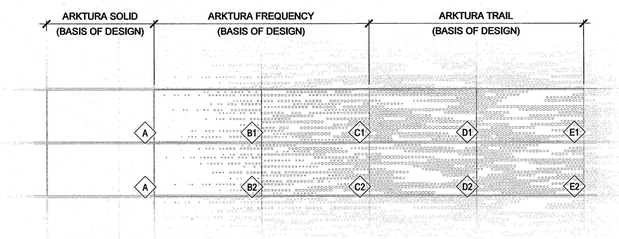


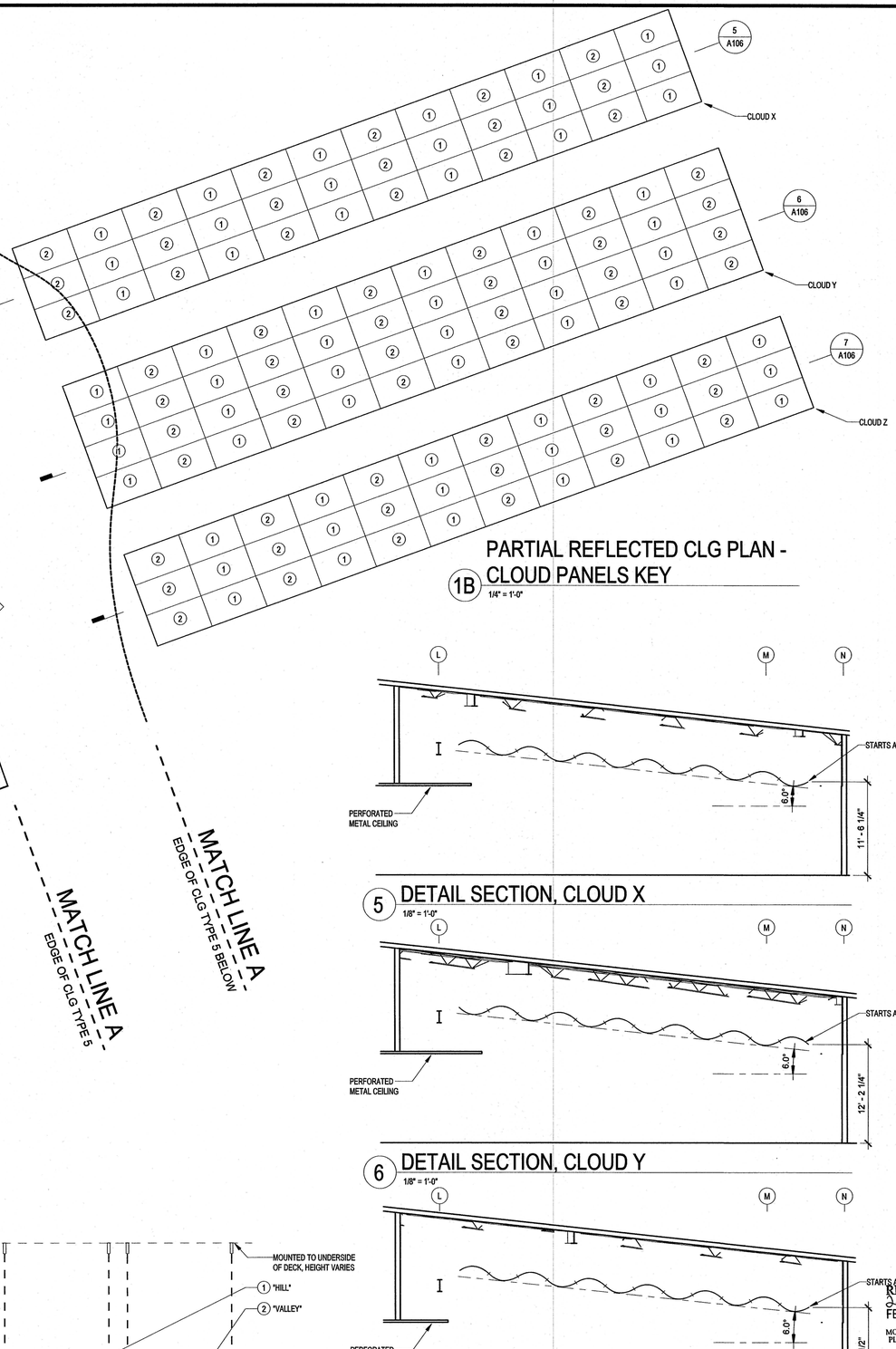
PARTIAL REFLECTED CLG PLAN - PERFORATED PANELS KEY

1A 1/4" = 1'-0"



PERFORATED PANELS PATTERN GUIDE

3 3/8" = 1'-0"



PARTIAL REFLECTED CLG PLAN - CLOUD PANELS KEY

1B 1/4" = 1'-0"



CLOUD CEILING PANEL GUIDE

1 1/2" = 1'-0"

DETAIL SECTION, CLOUD X

5 1/8" = 1'-0"

DETAIL SECTION, CLOUD Y

6 1/8" = 1'-0"

DETAIL SECTION, CLOUD Z

7 1/8" = 1'-0"

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COMP. FILE No.: 0000000
STATE PROJECT No.: CN657

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DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant:

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SCOTT C. MALONEY
LICENSE
No. 0090181
REGISTERED ARCHITECT
Scott C. Maloney, Architect
Expiration Date: 02/28/2027
CA# 26001059

JOHN PENNEKAMP

Sheet Title: FIRST FLOOR ENLARGED REFLECTED CEILING

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A106

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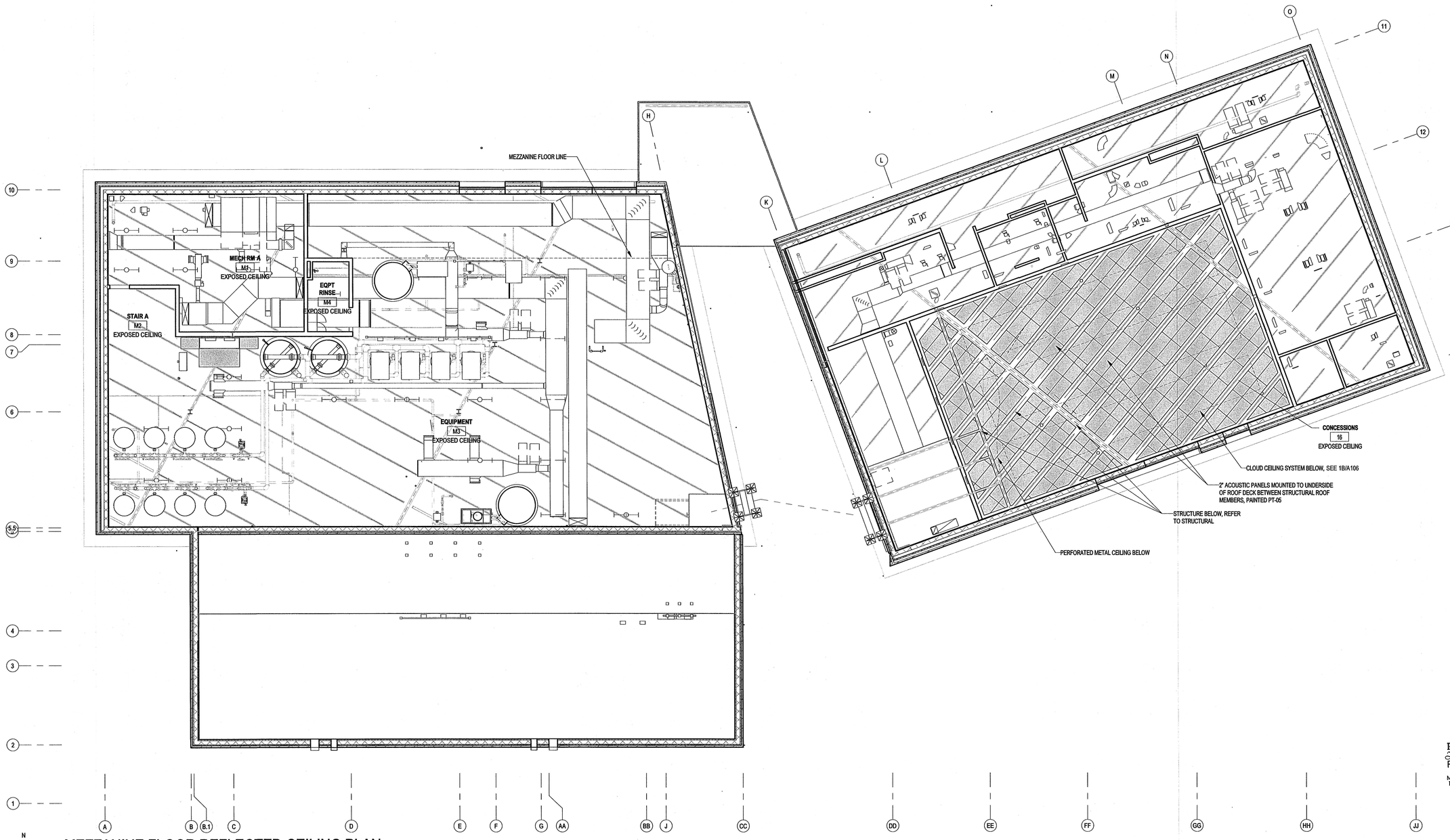
CEILING LEGEND

	2X2 PARABOLIC LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.		2X4 PARABOLIC LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.
	AIR SUPPLY GRILLE. REFER TO MECH.		UTILITY LIGHT. REFER TO ELECTRICAL PLANS.
	AIR RETURN GRILLE. REFER TO MECH.		DOWNLIGHTS, REFER TO ELECTRICAL PLANS
	2X2 CEILING GRID		WIRELESS ACCESS POINT, REFER TO ELECTRICAL PLANS
	2X4 PANEL GRID, CEILING TYPE VARIES, REFER TO CEILING TYPES FOR MATERIAL		SPEAKER, REFER TO ELECTRICAL PLANS
			CCTV CAMERA, REFER TO ELECTRICAL PLANS
	ACOUSTICAL CEILING PANEL (TEXTURED)		O.T.S. = OPEN TO STRUCTURE A.C.T. = ACOUSTICAL CEILING TILE



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1 MEZZANINE FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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STATE PROJECT No.: CN557

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DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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Brad C. Curtis
Expiration Date: 02/28/2027
COA #: AA26001059

JOHN PENNEKAMP

Sheet Title: MEZZANINE REFLECTED CEILING PLAN

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A107

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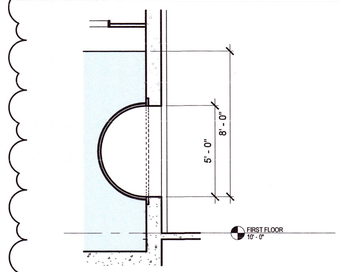
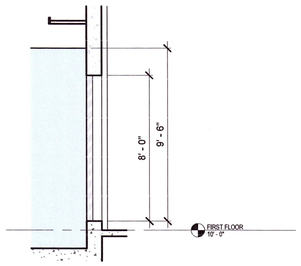
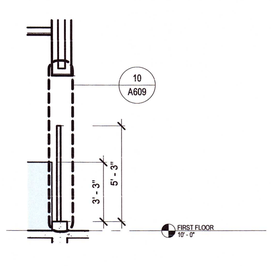


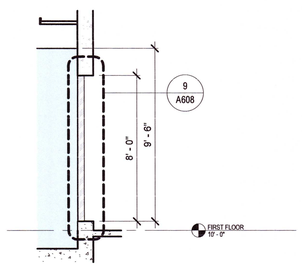
5 MAIN TANK 2
1/4" = 1'-0"



4 MAIN TANK
1/4" = 1'-0"



3 MANGROVE TANK
1/4" = 1'-0"



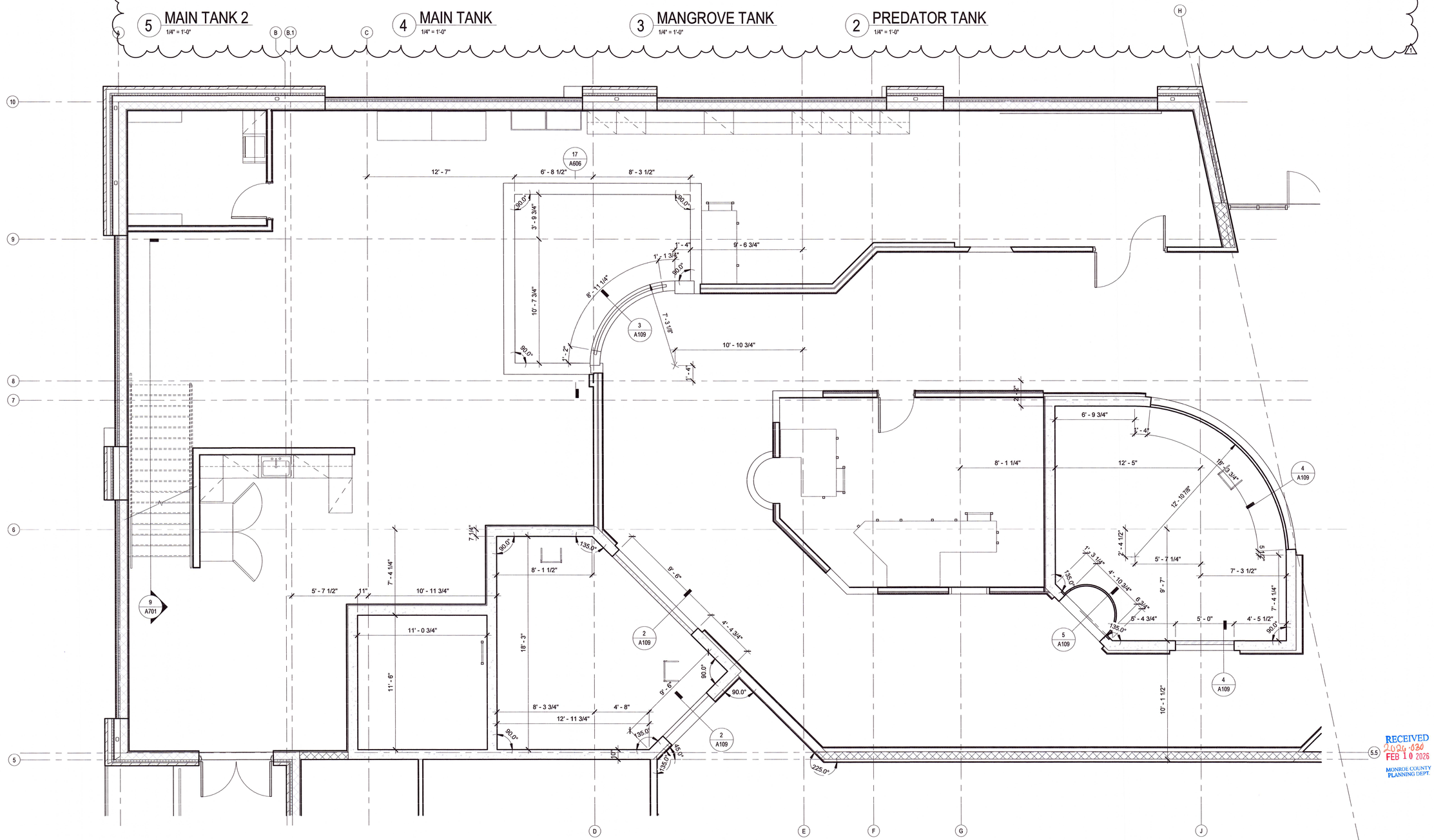
2 PREDATOR TANK
1/4" = 1'-0"

Pennekamp Aquarium
12/5/2025

roto

Acrylic Panel Schedule

Area / Exhibit	Panel No.	Panel Location	Panel Type	Under Window Opening Width Interior (Min) inches	Height inches	Area square feet	Panel Radius Interior Radius inches	Window Supports	Water Depth (above dry sill) inches	Notes
T-01 Coral Reef	T-01.1	Wall	Curved - concave	219.75	96	147	154.75	4 sided	114	
	T-01.2	Wall	Flat	69	96	38		4 sided	114	
	T-01.3	Wall	Hemisphere	58.75	58.75		30	All sides	96	Bloom Dome / Hemisphere
T-03 Mangrove	T-03.1	Wall - Split View	Curved - concave	95	63	43	84	3 sided	20	Polished top edge
T-04 Predator Tank	T-04.1	Wall	Flat	114	96	76		4 sided	114	
	T-04.2	Wall	Flat	63	96	42		4 sided	114	
					Total Sq. ft	345				



1 ENLARGED PLAN
1/4" = 1'-0"

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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JOHN PENNEKAMP

Sheet Title: ENLARGED PLAN TANK DIMENSIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A109

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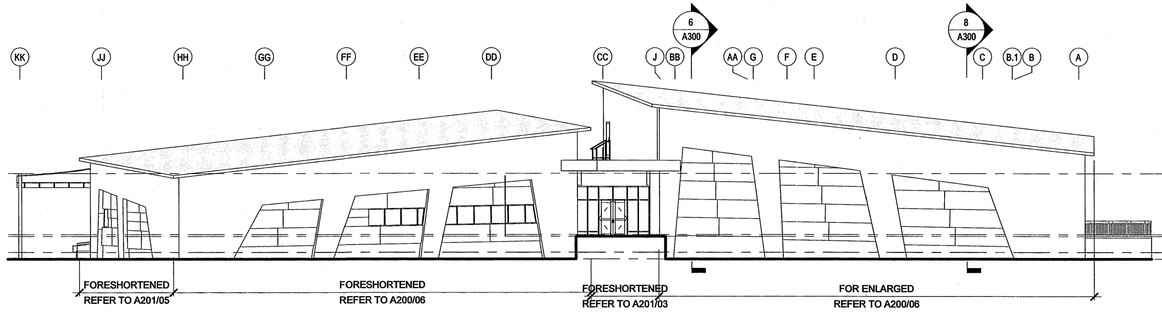
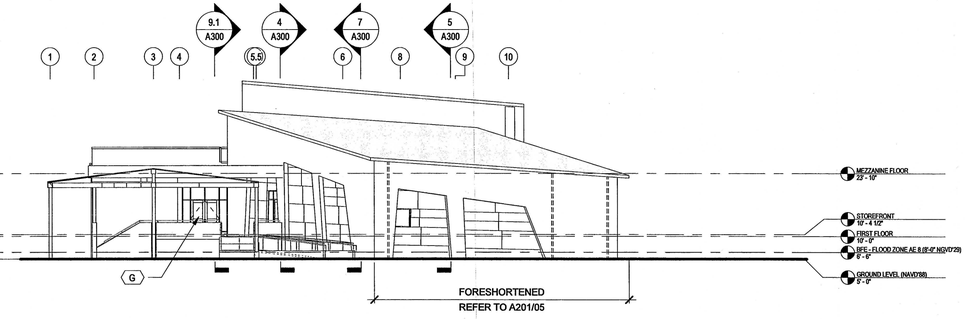


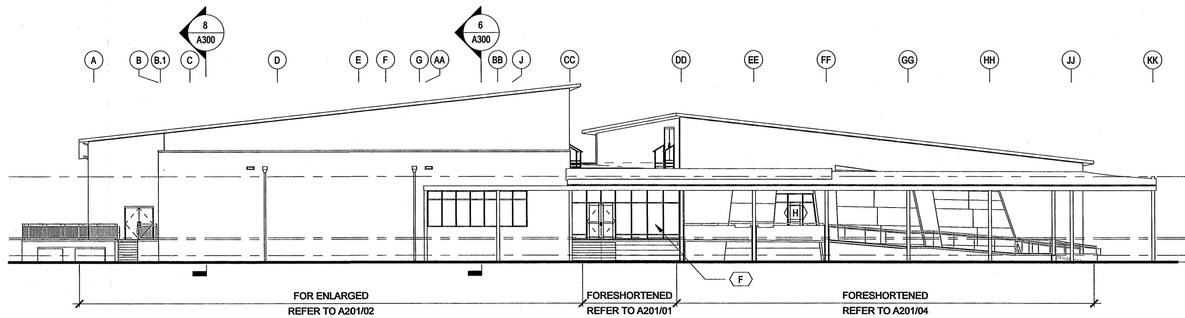
1 NORTH ELEVATION

1/16" = 1'-0"



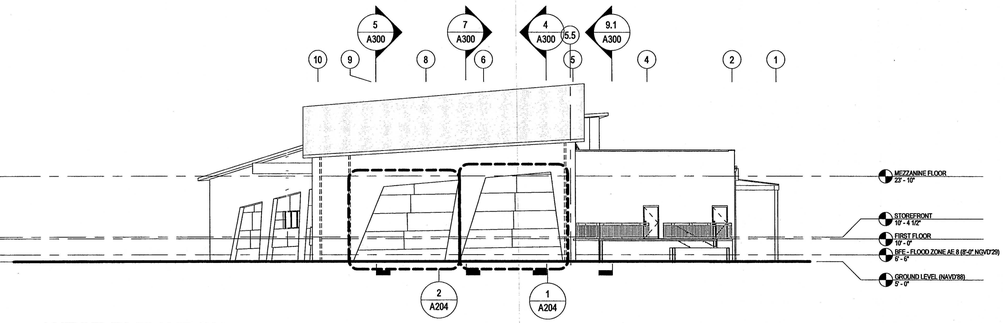
2 EAST ELEVATION

1/16" = 1'-0"



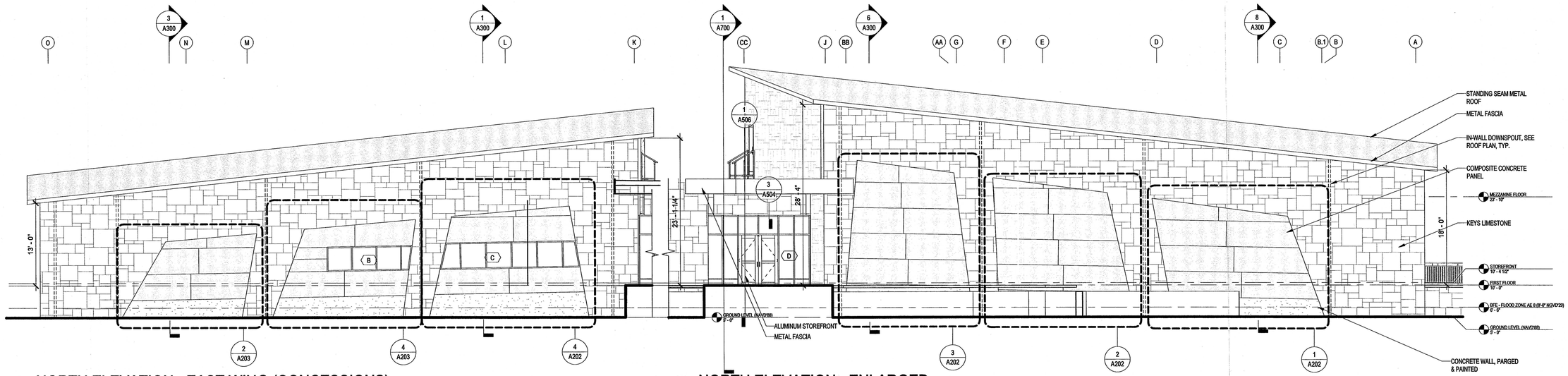
3 SOUTH ELEVATION

1/16" = 1'-0"



4 WEST ELEVATION

1/16" = 1'-0"



5 NORTH ELEVATION - EAST WING (CONCESSIONS)

1/8" = 1'-0"

6 NORTH ELEVATION - ENLARGED

1/8" = 1'-0"

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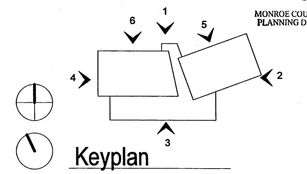

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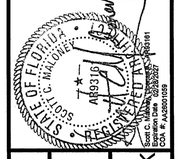
SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT NO.: CN857

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:



Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Title: JOHN PENNEKAMP
EXTERIOR ELEVATIONS

Sheet Number:
A200

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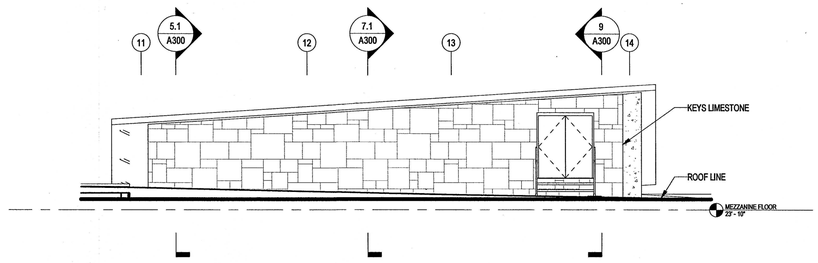
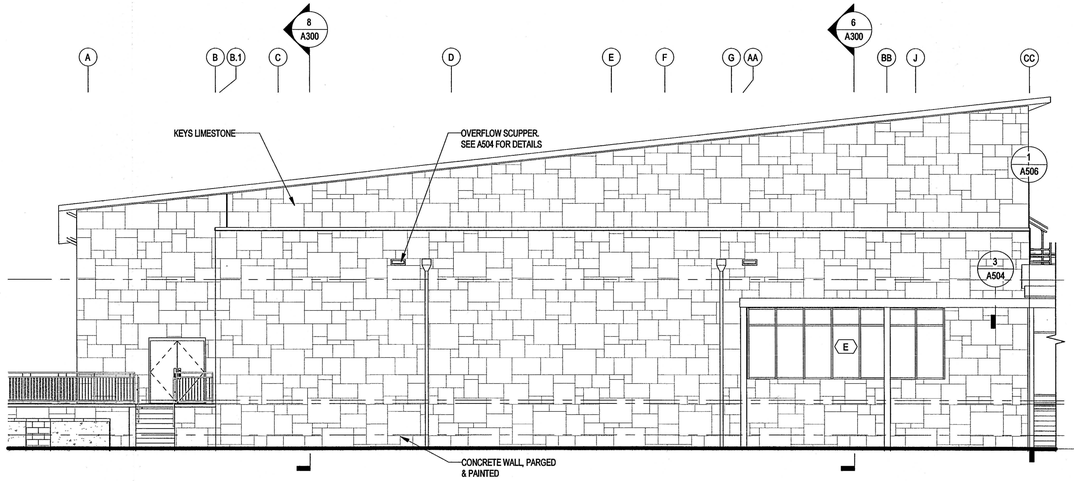
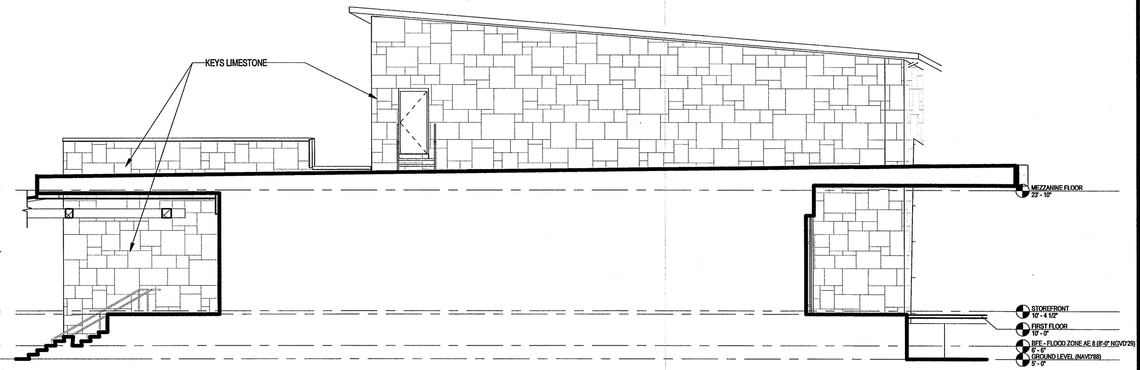


1 WEST ELEVATION - EAST WING (CONCESSIONS)

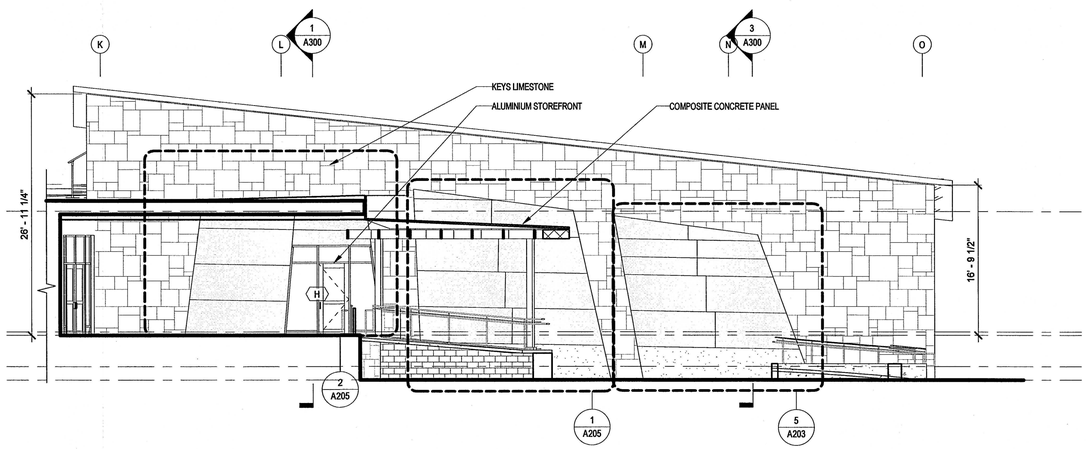
1/8" = 1'-0"





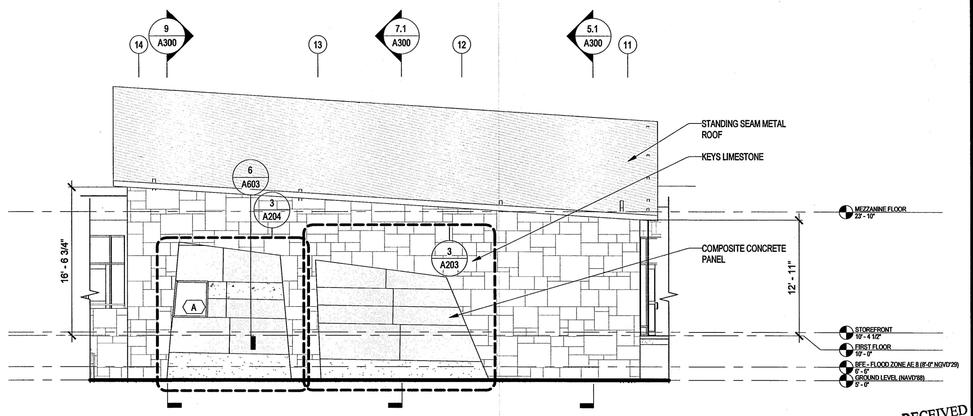
2 SOUTH ELEVATION - ENLARGED

1/8" = 1'-0"



3 EAST ELEVATION - WEST WING (EXHIBITS)

1/8" = 1'-0"



4 SOUTH ELEVATION - EAST WING (CONCESSIONS)

1/8" = 1'-0"

5 EAST ELEVATION - EAST WING (CONCESSIONS)

1/8" = 1'-0"

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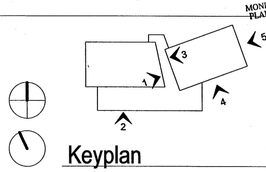

Keyplan

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DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

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CARLOS C. MARTINEZ
LICENSE NO. AR0009261
APPROVED
Scott C. Maddox, AIA, LEED AP
License No. AR0009261
COA # AA0001059

Sheet Title: EXTERIOR PARTIAL ELEVATIONS
JOHN PENNEKAMP

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A201

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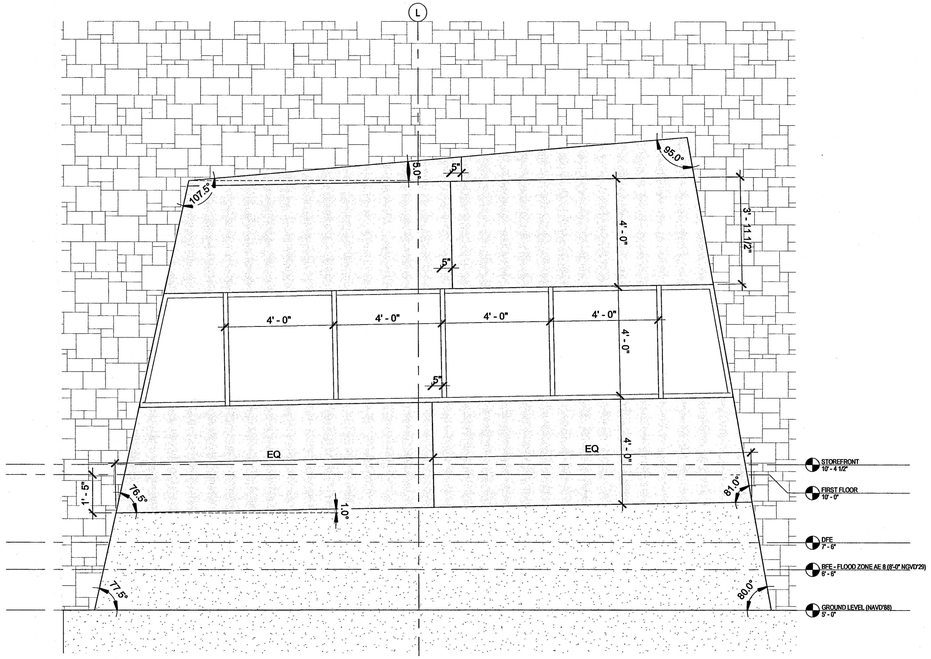
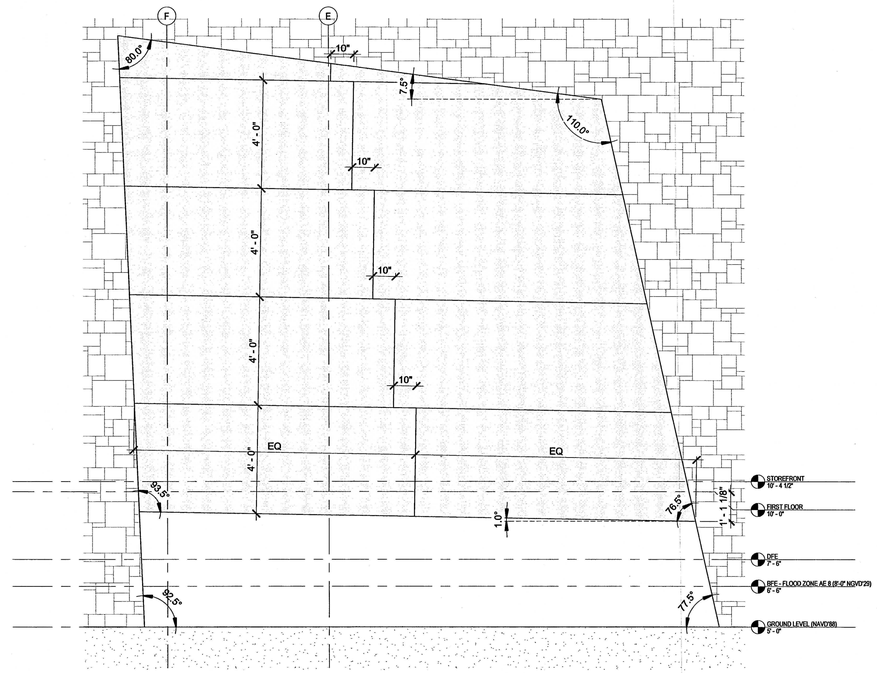
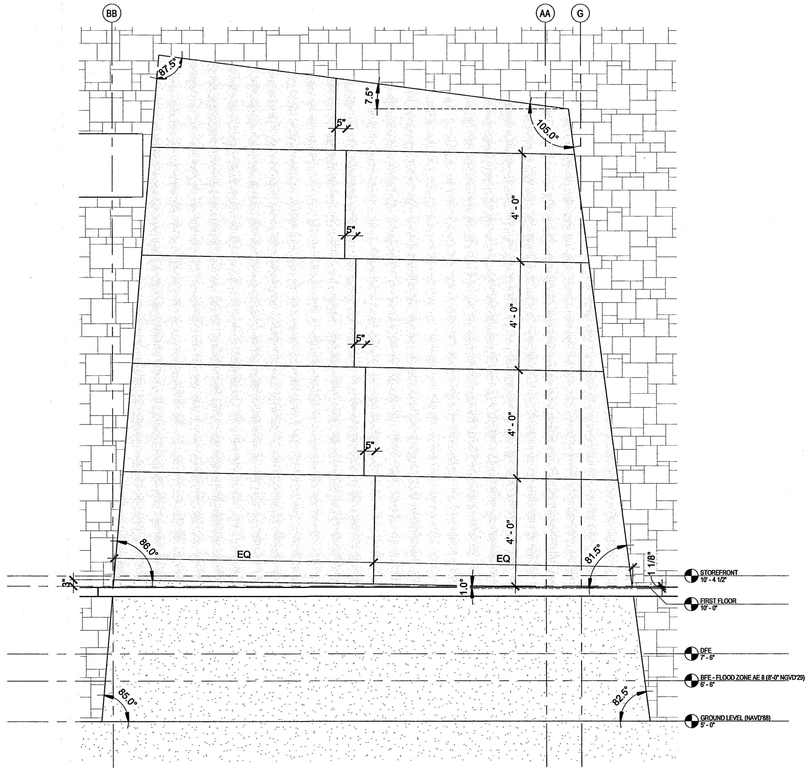


4 TAKTL PANEL B-1
3/8" = 1'-0"



2 TAKTL PANEL A-2
3/8" = 1'-0"



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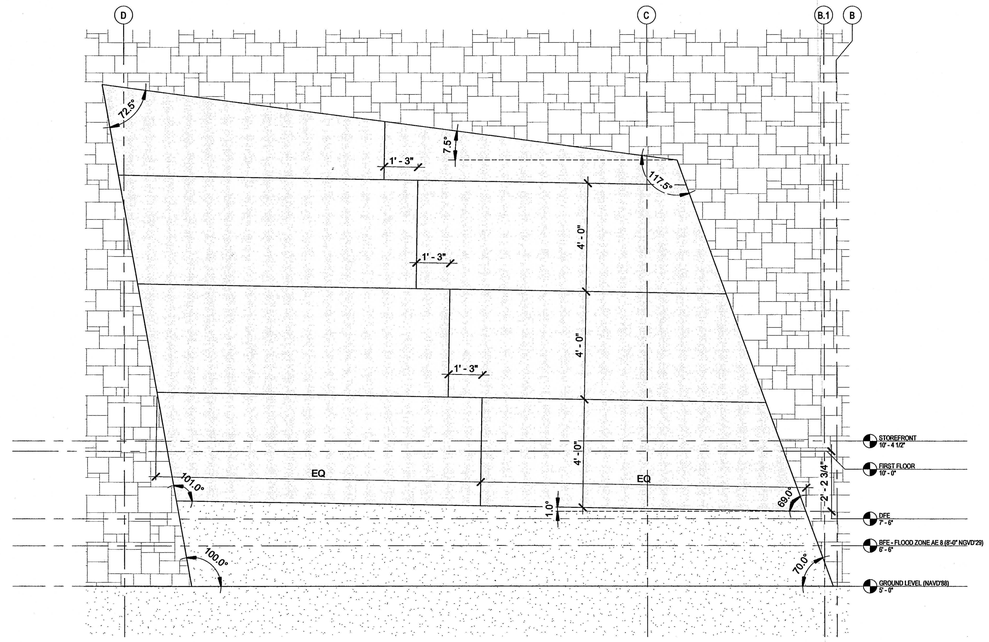
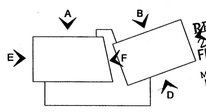


1 TAKTL PANEL A-1
3/8" = 1'-0"



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COMP. FILE No.: 0000000
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DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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AR93181
Expiration Date: 02/28/2027
COA #: AA26001058

Agent: Christopher A. Marinello
License No.: AR93181

JOHN PENNEKAMP

Sheet Title: EXTERIOR PANEL ELEVATIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A202

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5 TAKTL PANEL D-1
3/8" = 1'-0"

3 TAKTL PANEL C-1
3/8" = 1'-0"

4 TAKTL PANEL B-2
3/8" = 1'-0"

2 TAKTL PANEL B-3
3/8" = 1'-0"

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DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA / BK
Consultant:

STATE OF FLORIDA · SCOTT C. MALONEY · REGISTERED ARCHITECT · AR93401
Scott C. Maloney, Registered Architect
Expiration Date: 02/28/2026
Cert. # AR0009586

JOHN PENNEKAMP

Sheet Title: EXTERIOR PANEL ELEVATIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A203

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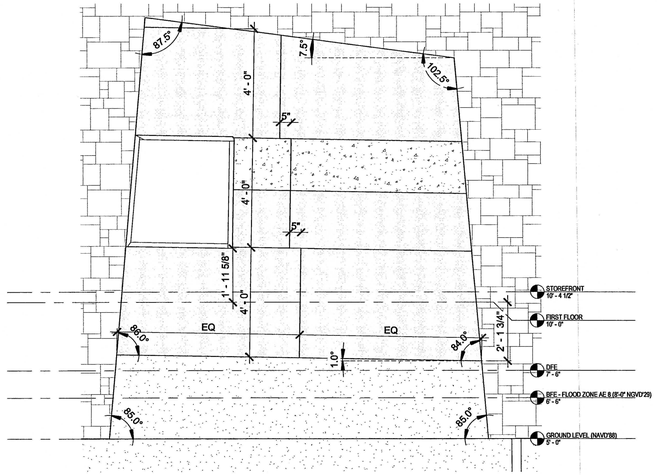
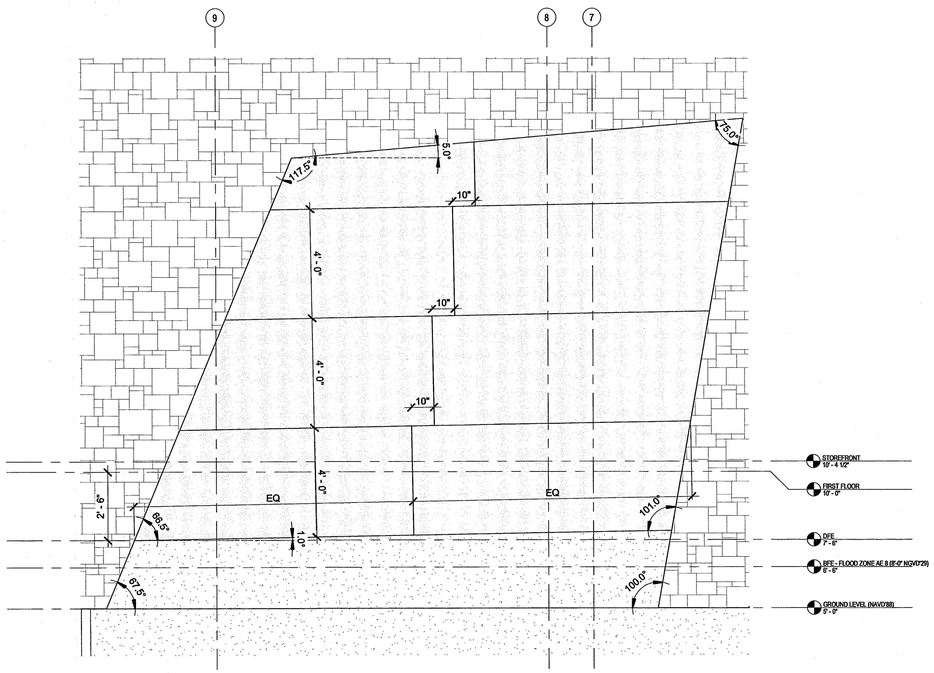


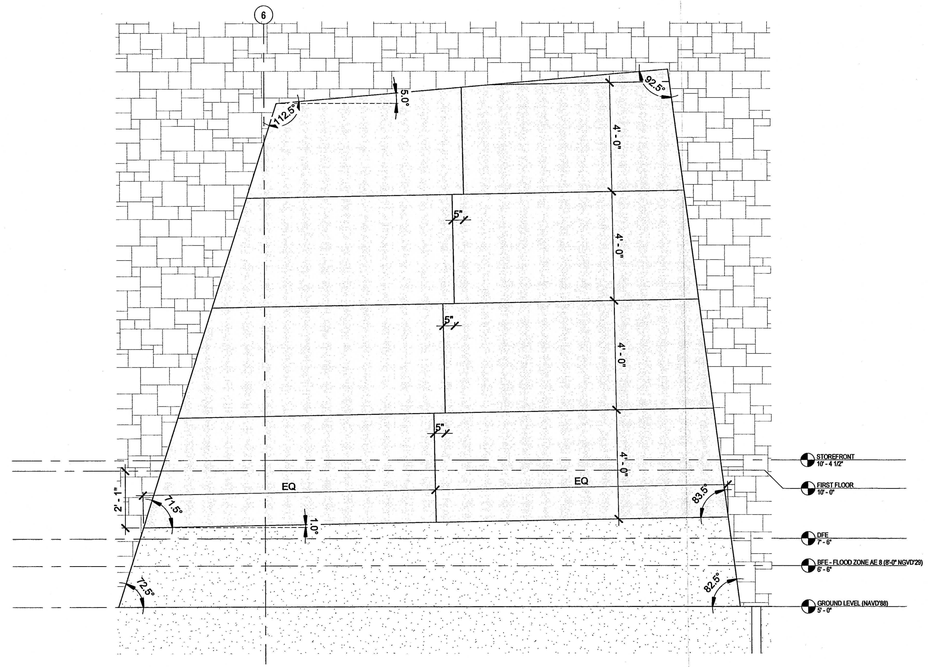
3 TAKTL PANEL C-2

3/8" = 1'-0"



2 TAKTL PANEL E-2

3/8" = 1'-0"



1 TAKTL PANEL E-1

3/8" = 1'-0"

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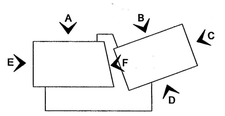

Keyplan

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DRAWN BY: K2M
REVIEWED BY: CA/ BK
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Scott C. Maloney | 0095161
Certificate of Authorization
COA #: AA26001009

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

Sheet Title: EXTERIOR PANEL ELEVATIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

JOHN PENNEKAMP

Sheet Number:
A204

PLOTTED:
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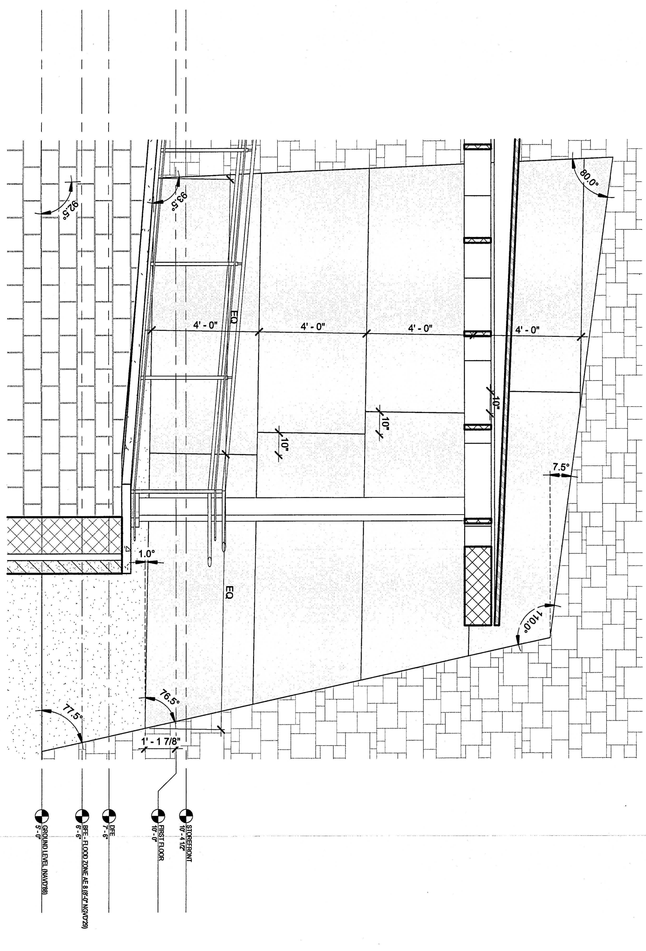
1 TAKTL PANEL D-2
3/8" = 1'-0"



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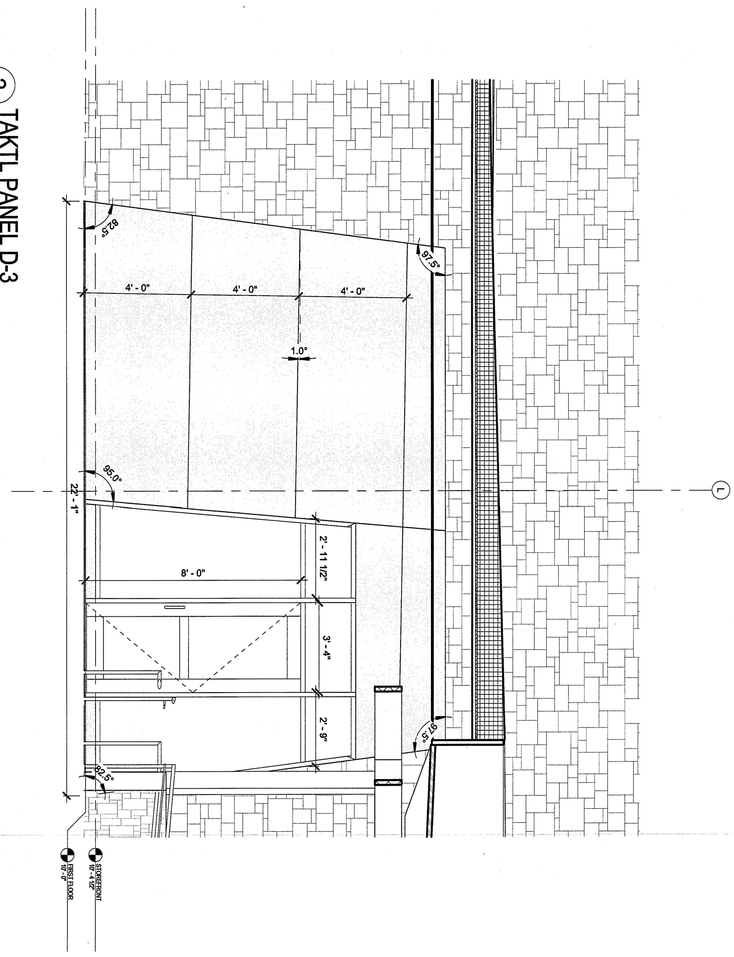
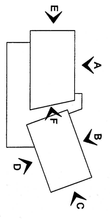
3/8" = 1'-0"



1 Keyplan



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Sheet Number:	A205
Sheet Title:	EXTERIOR PANEL ELEVATIONS
Project Title:	NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

JOHN PENNEKAMP

STATE OF FLORIDA
SCOTT C. MALONEY
REGISTERED ARCHITECT
AR92181

Scott C. Maloney, AR92181
Expiration Date 02/28/2027
CGA #: AA26001059

DESIGNER: GWWO / K2M	ISSUE DATE: 05.16.2025
DRAWN BY: K2M	COMP. FILE No.: 0000000
REVIEWED BY: CA/ BK	STATE PROJECT No.: CN667

Consultant: K2M DESIGN
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Key West, Florida
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www.k2mdesign.com
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SYMBOL	REVISION	DATE

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
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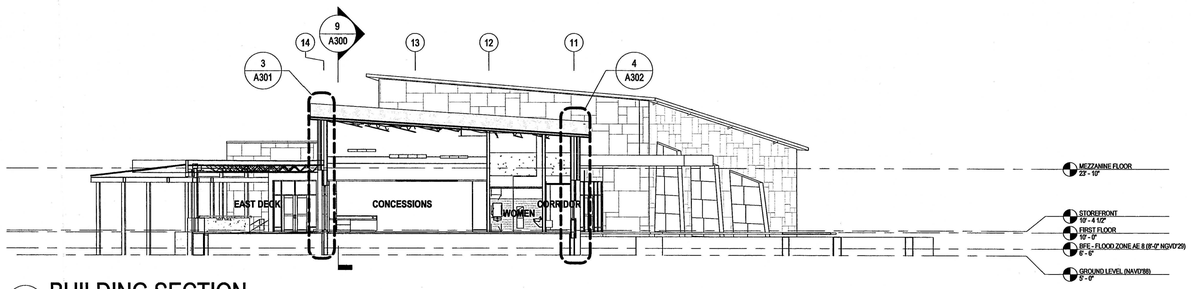
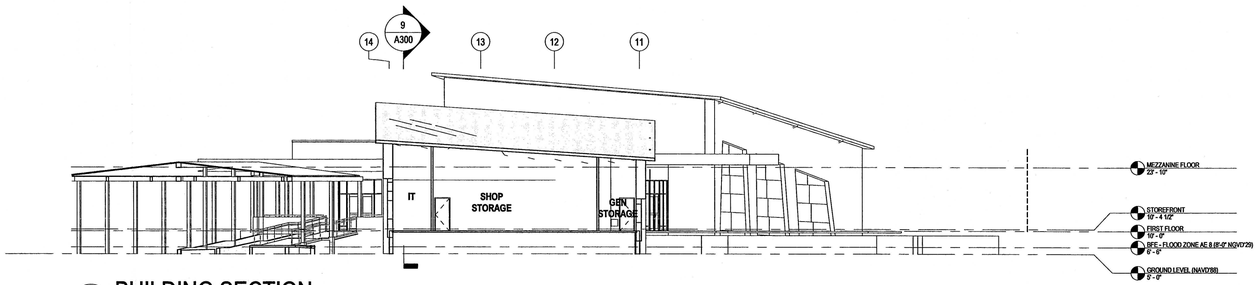


1 BUILDING SECTION
1/16" = 1'-0"



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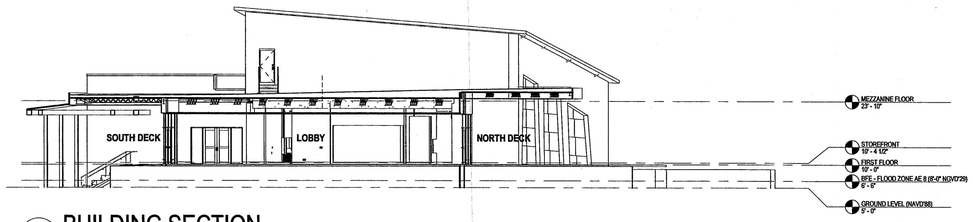

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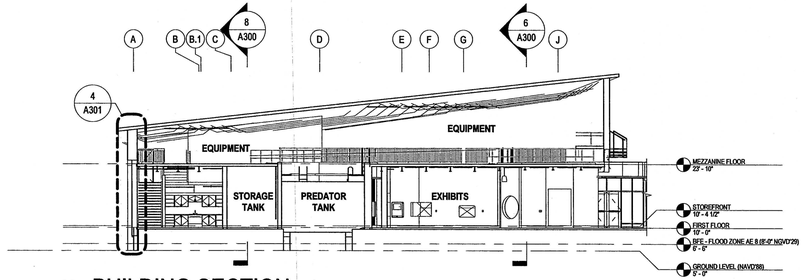
1/16" = 1'-0"



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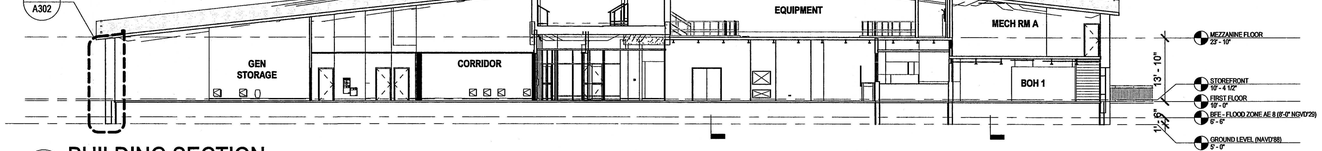
1/16" = 1'-0"



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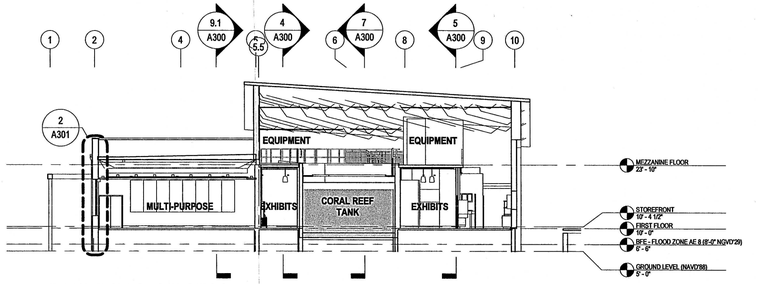

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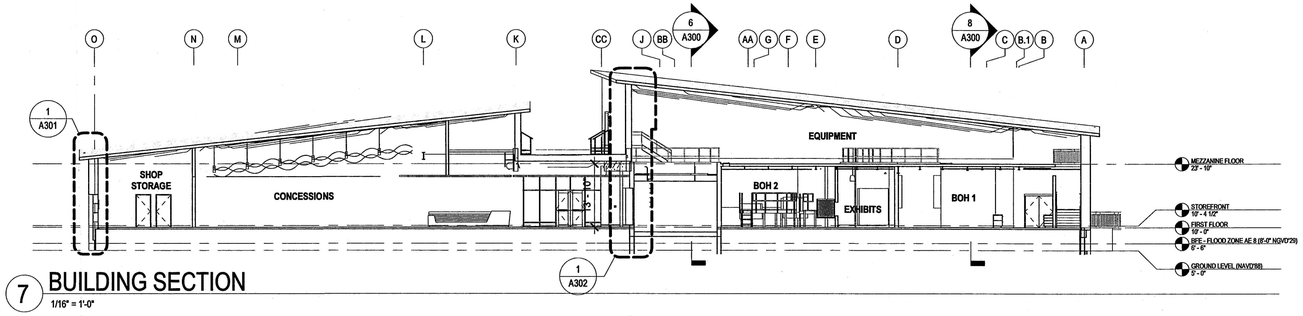
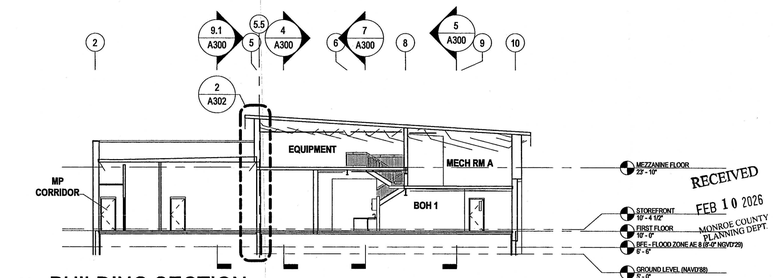
1/16" = 1'-0"



7 BUILDING SECTION
1/16" = 1'-0"



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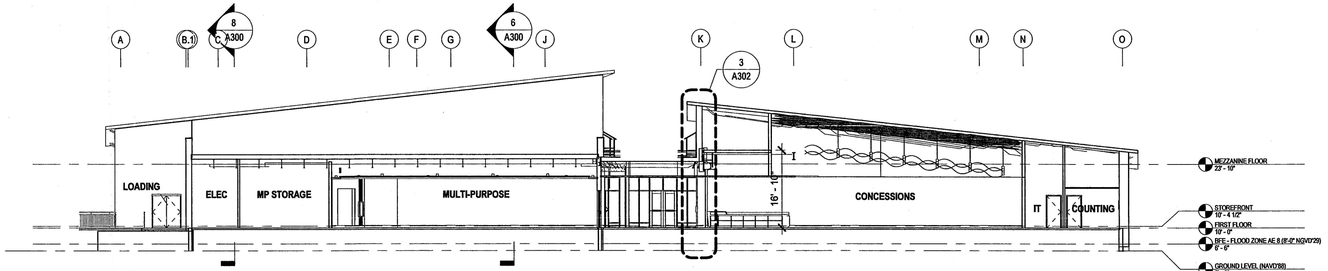
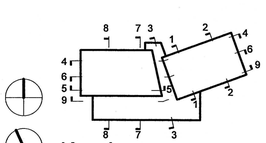
8 BUILDING SECTION
1/16" = 1'-0"



9 BUILDING SECTION
1/16" = 1'-0"



Keyplan

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Division of Recreation and Parks
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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
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STATE PROJECT No.: CN557

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DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CAV/ BK
Consultant:

K2M DESIGN
Architecture, Engineering,
Interior Design,
Facility Asset Management

STATE OF FLORIDA
SCOTT C. MALONEY
LICENSE NUMBER AR93181
REGISTERED ARCHITECT
Scott C. Maloney, AR93181
Expiration Date: 02/28/2027
COA #: AA26001559

JOHN PENNEKAMP

Sheet Title: BUILDING SECTIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A300

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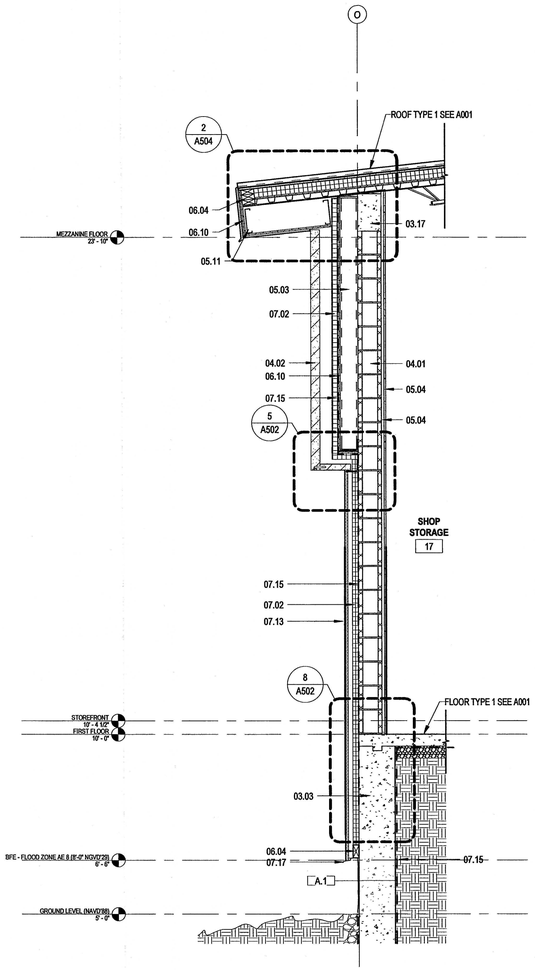
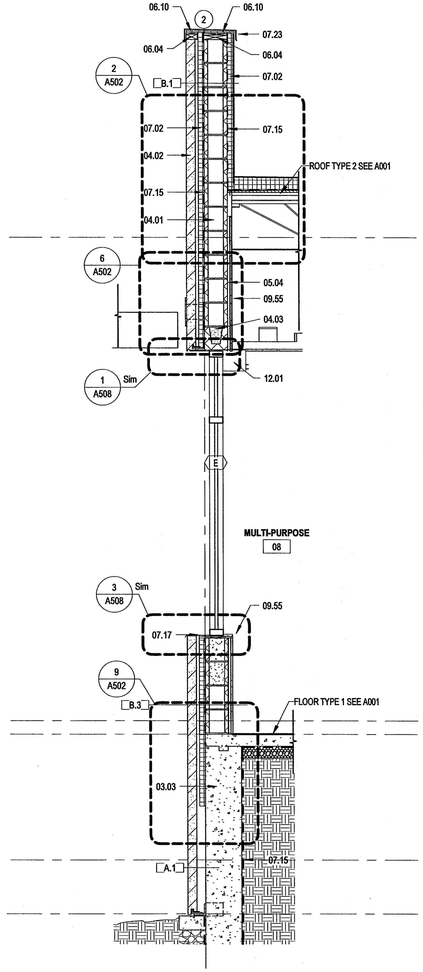
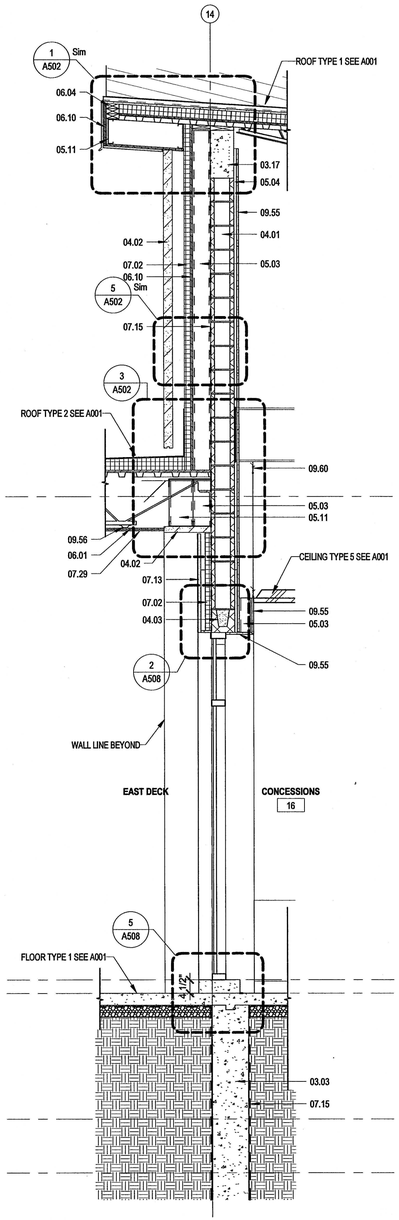
FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
03.03	12" REINFORCED CAST-IN-PLACE CONCRETE WALL. SEE STRUCTURAL DRAWINGS. (033100)
03.17	8" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
04.03	BOND BEAM, SEE STRUCTURAL FOR DETAILS
05.03	COLD-FORMED STEEL FRAMING, 6" (054100)
05.04	7/8" HAT CHANNEL
05.11	COLD-FORMED STEEL FRAMING, 8" (054000)
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.04	WOOD BLOCKING AS REQUIRED
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.13	UHPC ARCHITECTURAL PANEL, BOD: TAKTL
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.17	SS CONTINUOUS METAL FLASHING
07.23	METAL COPING
07.29	METAL SOFFIT, MATCH ROOF FINISH. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.56	7/8" FURRING CHANNEL (092900)
09.60	CEILING ASSEMBLY, SUSPENSION WIRE (095100)
12.01	ROLLER SHADE ENCLOSURE, BOD: MECHO SHADES, DOUBLE BLIND SYSTEM, CEILING JAMB MOUNTED. SEE SPECS.



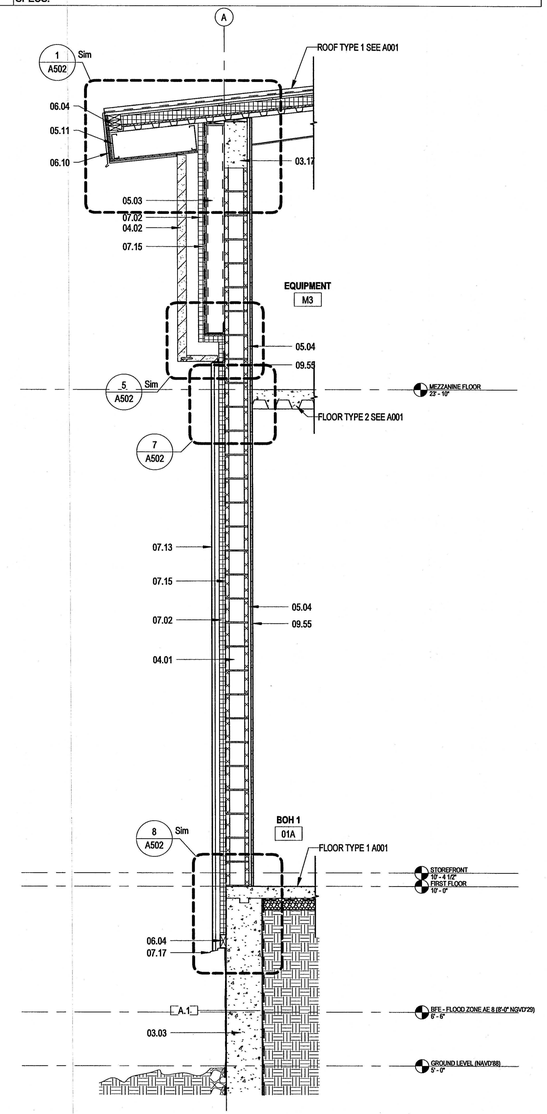
1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



4 WALL SECTION
1/2" = 1'-0"

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ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN567

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

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Ben Ackerman
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Landscape Architecture Facility Asset Management

STATE OF FLORIDA · SCOTT C. MALONEY · REGISTERED ARCHITECT · No. AR93481
Scott C. Maloney 12/12/2025
COA# 26000551 COA# AA26001099

JOHN PENNEKAMP
Sheet Title: WALL SECTIONS
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A301

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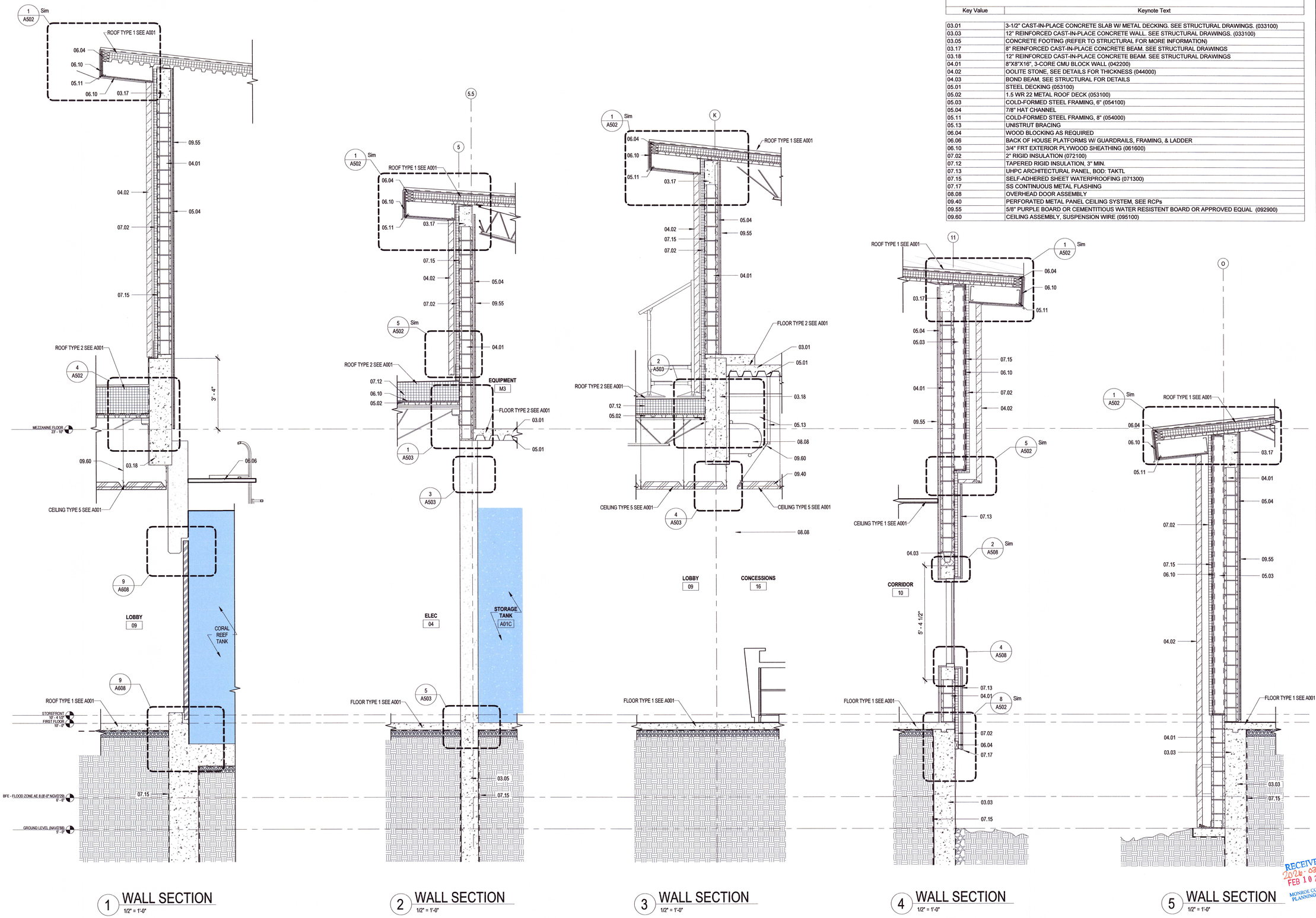

1 WALL SECTION
1/2" = 1'-0"

2 WALL SECTION
1/2" = 1'-0"

3 WALL SECTION
1/2" = 1'-0"

4 WALL SECTION
1/2" = 1'-0"

5 WALL SECTION
1/2" = 1'-0"

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
03.01	3-1/2" CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING. SEE STRUCTURAL DRAWINGS. (033100)
03.03	12" REINFORCED CAST-IN-PLACE CONCRETE WALL. SEE STRUCTURAL DRAWINGS. (033100)
03.05	CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
03.17	8" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
03.18	12" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
04.03	BOND BEAM, SEE STRUCTURAL FOR DETAILS
05.01	STEEL DECKING (053100)
05.02	1.5 WR 22 METAL ROOF DECK (053100)
05.03	COLD-FORMED STEEL FRAMING, 6" (054100)
05.04	7/8" HAT CHANNEL
05.11	COLD-FORMED STEEL FRAMING, 8" (054000)
05.13	UNISTRUT BRACING
06.04	WOOD BLOCKING AS REQUIRED
06.06	BACK OF HOUSE PLATFORMS W/ GUARDRAILS, FRAMING, & LADDER
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.13	UHPC ARCHITECTURAL PANEL, BOD: TAKTL
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.17	SS CONTINUOUS METAL FLASHING
08.08	OVERHEAD DOOR ASSEMBLY
09.40	PERFORATED METAL PANEL CEILING SYSTEM, SEE RCPs
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.60	CEILING ASSEMBLY, SUSPENSION WIRE (095100)

GWWO ARCHITECTS | K2M DESIGN | CPI ASSOCIATES, INC | roto | Kimley»Horn

SYMBOL	REVISION	DATE

Department of Environmental Protection
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Bureau of Design and Construction
3800 Commonwealth Blvd, Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 05.16.2025
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DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

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STATE OF FLORIDA · SCOTT C. MALONEY · LICENSED · REGISTERED ARCHITECT · 0093161
Scott C. Maloney, Registered #: 0093161
Date: 12/12/2025
COA: # AA26001059

JOHN PENNEKAMP
Sheet Title: WALL SECTIONS
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A302

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HARDWARE SETS:

#	DESCRIPTION	MANUFACTURER	PRODUCT #	FINISH	NOTES
HARDWARE SET #1 - BUILDING ENTRANCE - DOUBLE DOORS					
1	PANIC HARDWARE	VON	9847EO	626	
1	PANIC HARDWARE	VON	9847-NL-OP-110MD	626	
6	HINGES	IVE	5BB1 4.5X4.5 NRP	630	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	SFIC CYLINDER	MBS	ICR7	626	
2	90 DEG OFFSET PULL	IVE	8190HD 10"	630	
2	SURF. AUTO OPERATOR	LCN	9563 REG/STD HL/D AS REQU. (120/240 VAC))	ANCLR	
2	ROCKER SWITCH (ON/OFF/HOLD OPEN)	LCN	8310-806R		
2	ACTUATOR, TOUCH	LCN	8310-818	630	

BALANCE OF HARDWARE BY DOOR MANUFACTURER. VERIFY HARDWARE WITH DOOR MANUFACTURER PRODUCT APPROVALS.
LATCHBOLT RETRACTED BY KEY OR PUSH PAD.
EXIT BAR ALLOWS FREE EGRESS AT ALL TIMES
DOOR CLOSED AND LATCHBOLT RETRACTED (DOCCED) DURING BUSINESS HOURS.
AUTO DOOR OPERATOR TURNED ON AND OFF BY SWITCH TO PREVENT OPERATION WHEN EXIT DEVICES ARE LATCHED.

#	DESCRIPTION	MANUFACTURER	PRODUCT #	FINISH	NOTES
HARDWARE SET #2 - MULTIPURPOSE/LOBBY - DOUBLE DOORS					
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	SFIC CYLINDER	MBS	ICR7	626	
	NOTE	BYO	BALANCE OF HARDWARE BY DOOR MANUFACTURER		

BALANCE OF HARDWARE BY DOOR MANUFACTURER. VERIFY HARWARE WITH DOOR MANUFACTURER PRODUCT APPROVAL.

#	DESCRIPTION	MANUFACTURER	PRODUCT #	FINISH	NOTES
HARDWARE SET #3 - BOH1/MECH ROOM B - DOUBLE DOOR					
2	SURFACE BOLT	IVE	SB360 12" T	604	
1	STOREROOM W/ DEADBOLT	SCH	L9480BD 06A 09-544	626	
6	HINGE	IVE	5BB1 4.5X4.5 NRP	630	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
2	SURFACE CLOSERS	LCN	4040XP SCUSH	689	
2	KICK PLATE	IVE	8400 10"X2" LDW B-CS	630	
1	RAIN DRIP	ZER	142AA	AA	
1	GASKETING	ZER	188SBK PSA	BK	
1	DOOR SWEEP	ZER	39A	A	
1	THRESHOLD	ZER	566A-223	A	

FBC/NOA 12400 BASIS OF DESIGN.

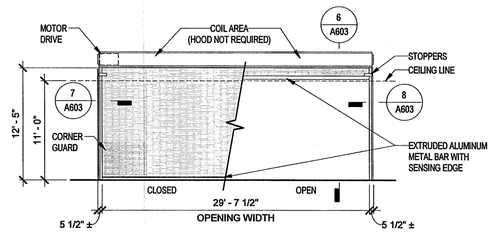
#	DESCRIPTION	MANUFACTURER	PRODUCT #	FINISH	NOTES
HARDWARE SET #4 - PRIVATE ROOMS - SINGLE DOOR					
1	PANIC HARDWARE	VON	9847-NL-OP-110MD	626	
3	HINGES	IVE	5BB1 4.5x4.5 NRP	626	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	SFIC CYLINDER	MBS	ICR7	626	
1	SURFACE CLOSER	LCN	4040XP SCUSH	689	
	NOTE	BYO	BALANCE OF HARDWARE BY DOOR MANUFACTURER		
HARDWARE SET #5 - BACK OF HOUSE - SINGLE DOOR					
2	MANUAL FLUSH BOLT	IVE	FB358	626	
6	HINGES	IVE	5BB1 4.5x4.5	652	
1	STOREROOM LOCK	SCH	ND80BD RHO	626	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
2	SURFACE CLOSER	LCN	4040XP EDA	689	
2	KICK PLATE	IVE	8400 10" X 1" LDW B-CS	630	
2	WALL STOP/HOLDER	IVE	WS40	626	
2	SILENCER	IVE	SR64	GRY	
HARDWARE SET #6 - MP STORAGE, MULTI-PURPOSE - DOUBLE DOOR					
1	STOREROOM LOCK	SCH	ND80BD RHO	626	
3	HINGES	IVE	5BB1 4.5x4.5	652	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	WALL STOP	IVE	WS406/407CCV	630	
3	SILENCER	IVE	SR64	GRY	
HARDWARE SET #6A - MP STORAGE, MULTI-PURPOSE - DOUBLE DOOR					
1	STOREROOM LOCK	SCH	ND80BD RHO	626	
3	HINGES	IVE	5BB1 4.5x4.5	652	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	OH STOP	GLY	450S	689	
3	SILENCER	IVE	SR64	GRY	
HARDWARE SET #7 - FAMILY ROOM - SINGLE DOOR					
1	PUSH PLATE	IVE	8200 6" X 16"	630	
1	PULL PLATE	IVE	8303 8" 6" X 16"	630	
3	HINGES	IVE	5BB1 4.5x4.5	652	
1	SURFACE CLOSER	LCN	4040XP REQ OR PA AS REQ	689	
1	KICK PLATE	IVE	8400 10" X 1" LDW B-CS	630	
1	GASKETING	ZER	488SBK PSA	BK	
HARDWARE SET #8 - MULTI-USER RESTROOM - SINGLE DOOR					
1	CLASSROOM DEADBOLT W/ OUTSIDE INDICATOR	SCH	B663BD OS-OCC	626	
3	HINGES	IVE	5BB1 4.5x4.5	652	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	PUSH PLATE	IVE	8200 6" X 16"	630	
1	PULL PLATE	IVE	8303 8" 6" X 16"	630	
1	SURFACE CLOSER	LCN	4040XP REG OR PA AS REQ	689	
1	KICK PLATE	IVE	8400 10" X 1" LDW B-CS	630	
1	GASKETING	ZER	488SBK PSA	BK	
HARDWARE SET #10 - JANITOR, MANGROVE TANK ROOM					
2	PUSH PLATE	IVE	8200 6" X 16"	630	
6	HINGES	IVE	5BB1 4.5x4.5	652	
2	SURF. AUTO OPERATOR	LCN	9563 REG/STD HL/D AS REQ (120/240 VAC)	ANCLR	
2	ACTUATOR, TOUCHLESS	LCN	8310-813	BLK	
2	KICK PLATE	IVE	8400 10" X 1" LDW B-CS	630	
2	SILENCER	IVE	SR64	GRY	
HARDWARE SET #11 - FAMILY ROOM - SINGLE DOOR					
1	ENTRANCE/ OFFICE LOCK	SCH	ND50BD RHO	626	
3	HINGES	IVE	5BB1 4.5x4.5	652	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	WALL STOP	IVE	WS406/407CCV	630	
1	GASKETING	ZER	488SBK PSA	BK	
HARDWARE SET #12 - MP STORAGE, MULTI-PURPOSE - DOUBLE DOOR					
1	PASSAGE SET	SCH	ND10S RHO	626	
3	HINGES	IVE	5BB1 4.5x4.5	652	
1	SURFACE CLOSER	LCN	4040XP REG OR PA AS REQ	689	
1	WALL STOP	IVE	WS406/407CCV	630	
3	SILENCER	IVE	SR64	GRY	
HARDWARE SET #14 - BUILDING ENTRANCE - DOUBLE DOORS					
1	PANIC HARDWARE	VON	9847EO	626	
1	PANIC HARDWARE	VON	9847-L06	626	
6	HINGES	IVE	5BB1 4.5X4.5	652	
1	SFIC RIM HOUSING	SCH	80-129	626	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
2	SURFACE CLOSER	LCN	4040XP REG OR PA AS REQ	689	
2	KICK PLATE	IVE	8400 10" X 1" LDW B-CS	630	
2	WALL STOP	IVE	WS406/407CCV	630	
1	MEETING STILE	ZER	328AA-S	AA	
1	GASKETING	ZER	488SBK PSA	BK	

#	DESCRIPTION	MANUFACTURER	PRODUCT #	FINISH	NOTES
HARDWARE SET #14A - BUILDING ENTRANCE - DOUBLE DOORS					
1	PANIC HARDWARE	VON	9847EO	626	
1	PANIC HARDWARE	VON	9847-L06	626	
6	HINGES	IVE	5BB1 4.5X4.5	652	
1	SFIC RIM HOUSING	SCH	80-129	626	
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
2	SURFACE CLOSER	LCN	4040XP SCUSH	689	
2	KICK PLATE	IVE	8400 10" X 1" LDW B-CS	630	
1	MEETING STILE	ZER	328AA-S	AA	
1	GASKETING	ZER	488SBK PSA	BK	
HARDWARE SET #15 - MULTIPURPOSE/LOBBY - DOUBLE DOORS					
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
1	SFIC CYLINDER	MBS	ICR7	626	
	NOTE	BYO	BALANCE OF HARDWARE BY DOOR MANUFACTURER		

BALANCE OF HARWARE BY DOOR MANUCATURER. VERIFY HARWARE WITH DOOR MANUFACTURERS PRODUCT APPROVAL.

#	DESCRIPTION	MANUFACTURER	PRODUCT #	FINISH	NOTES
HARDWARE SET #15 - MULTIPURPOSE/LOBBY - DOUBLE DOORS					
1	KEYING AS REQUIRED		OWNERS STANDARD	626	
	NOTE	BYO	BALANCE OF HARDWARE BY DOOR MANUFACTURER		

BALANCE OF HARWARE BY ROLL DOOR MANUFACTURER.



16A OVERHEAD DOOR

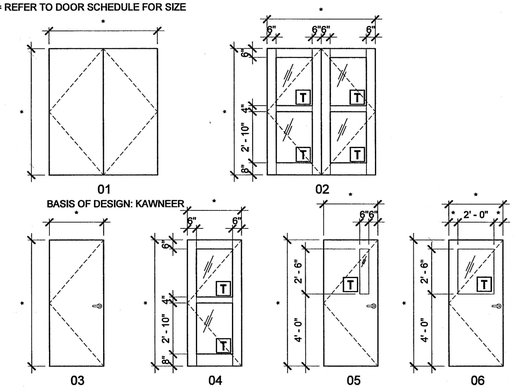
01A

DOOR SCHEDULE

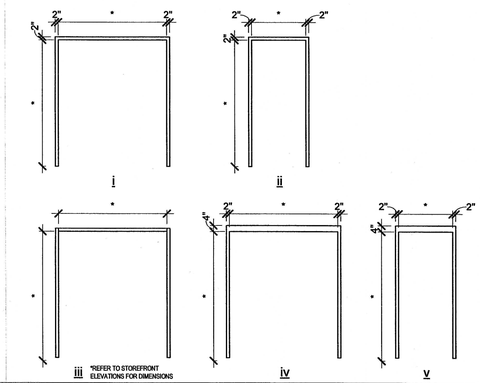
DOOR NO.	ROOM FROM	ROOM TO	DOOR NOMINAL SIZE	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	GLAZING	THRES MATL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH	HARDWARE	FIRE RATING	STC RATING	DESIGN PRESSURE	REMARKS
01	01	01A	7' - 0" X 3' - 0"	05	SWD	PTD	ii	HM	PTD	TYPE 1	ALUM	18/A500	19/A500	14/A500	11		45	-	
01A	01A	LOADING	7' - 0" X 6' - 0"	01	FIBR	PTD	iii	HM	PTD		ALUM	04/A500	05/A500	06/A500	03	45 MIN		+75, -75	INSTALL PER NOA
01B	01A	A01B	6' - 0" X 2' - 6"	03	FIBR	PTD	ii	HM	PTD			05/A500	06/A500		10		50	-	
02	02	03	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			15/A500	16/A500	17/A500	06A		50	-	
03	01A	03	7' - 0" X 6' - 0"	01	FIBR	PTD	i	HM	PTD			10/A500	11/A500	09/A500	10		45	-	PROVIDE DOUBLE EGRESS FRAMES
04	04	LOADING	7' - 0" X 3' - 0"	03	FIBR	PTD	v	HM	PTD		ALUM	04/A500	05/A500	06/A500	04	45 MIN		+75, -75	INSTALL PER NOA
05	07	05	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD		ALUM	07/A500	08/A500	09/A500	06			-	
06	07	06	7' - 0" X 5' - 0"	01	FIBR	PTD	i	HM	PTD		ALUM	07/A500	08/A500	09/A500	05	45 MIN		-	
07	07	LOADING	7' - 0" X 3' - 0"	03	FIBR	PTD	v	HM	PTD		ALUM	04/A500	05/A500	06/A500	04	45 MIN		+75, -75	INSTALL PER NOA
08A	08	07	7' - 0" X 5' - 0"	01	FIBR	PTD	i	HM	PTD			07/A500	08/A500	09/A500	14	45 MIN		-	
08B	09	08	7' - 11" X 6' - 2"	02	ALUM.	PTD	iii	ALUM.	PTD	TYPE 2		01/A500	02/A500	03/A500	02			-	
09	09	NORTH DECK	7' - 11" X 6' - 2"	02	ALUM.	PTD	iii	ALUM.	PTD	TYPE 6	ALUM	01/A500	02/A500	03/A500	01			+70, -70	INSTALL PER NOA
09A	SOUTH DECK	09	7' - 11" X 6' - 2"	02	ALUM.	PTD	iii	ALUM.	PTD	TYPE 6	ALUM	01/A500	02/A500	03/A500	01			+70, -70	INSTALL PER NOA
09C	09	EAST DECK	7' - 11" X 6' - 2"	02	ALUM.	PTD	iii	ALUM.	PTD	TYPE 6	ALUM	01/A500	02/A500	03/A500	01			+70, -70	INSTALL PER NOA
11	11	10	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	07			-	
12	12	10	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	08			-	
13	13	14	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	06			-	
14	14	10	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	07			-	
15	15	10	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	06			-	
16A	16	09	12' - 5" X 29' - 7 3/8"			PTD			PTD			5/A603		6,7/A603	-			-	OVERHEAD COILING DOOR
16B	16	EAST DECK	8' - 0" X 3' - 4"	04	ALUM.	PTD	iii	ALUM	PTD	TYPE 6	ALUM	04/A500	05/A500	06/A500	15	45 MIN		+70, -70	INSTALL PER NOA
17	17	16	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	06			-	
18	17	18	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	06A			-	
19	17	19	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD			07/A500	08/A500	09/A500	04			-	
M1	M2	01A	7' - 0" X 3' - 0"	03	SWD	PTD	ii	HM	PTD		ALUM	15/A500	16/A500	17/A500	06	45 MIN	40	-	
M3	M3	ROOF	7' - 0" X 3' - 0"	03	FIBR	PTD	v	HM	PTD		ALUM	04/A500	05/A500	06/A500	04	45 MIN		+75, -75	INSTALL PER NOA
M5	M5	ROOF	7' - 0" X 6' - 0"	01	ALUM	PTD	i	ALUM.	PTD						-			+75, -75	INSTALL PER NOA

DOOR TYPES

* = REFER TO DOOR SCHEDULE FOR SIZE



FRAME TYPES



SYMBOLS

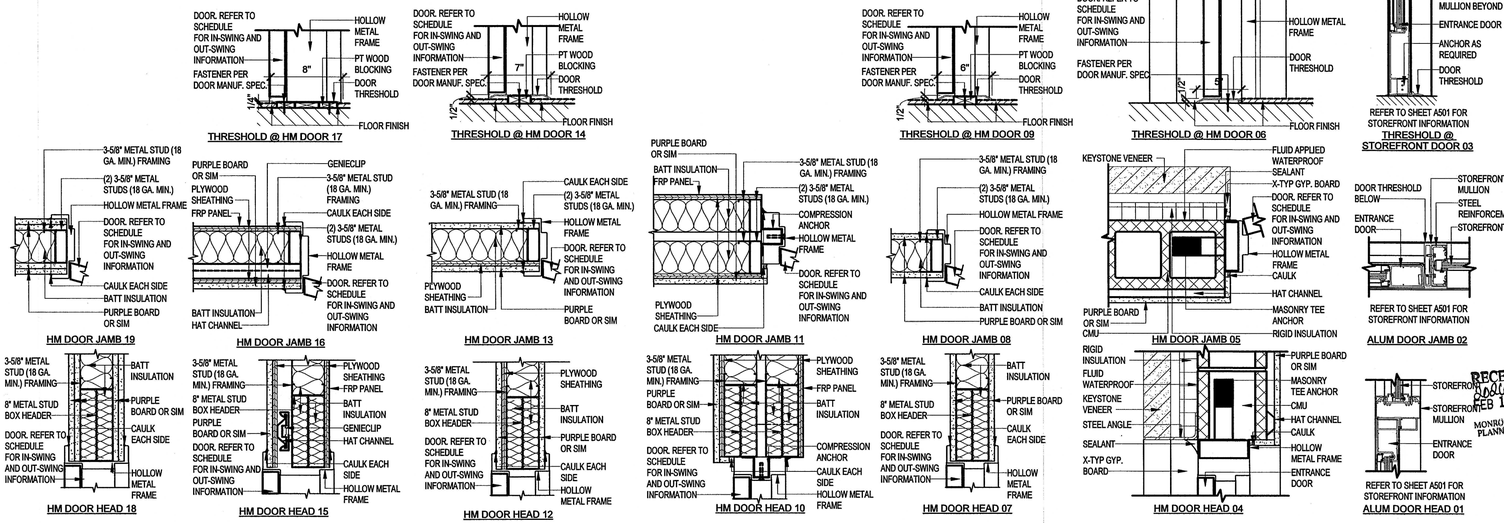
T	TEMPERED SAFETY GLASS
ALUM	ALUMINUM, FINISHED BY MANUFACTURER
HM	HOLLOW METAL, PAINTED
SWD	SOLID WOOD DOOR
HWD	HOLLOW WOOD DOOR
FIBR	FIBERGLASS DOOR

GLAZING TYPES

TYPE 1 – 1/4" TEMPERED
TYPE 2 – 1/4" FIRE RATED GLASS
TYPE 3 –9/16" LAMINATED POLYCARBONATE (60 MIN.)
TYPE 4 –7/16" LAMINATED POLYCARBONATE
TYPE 5 – 1" INSULATED
TYPE 6 – 1.25" SECURITY GLASS (EXTERIOR ONLY)
TYPE 7 – ONE WAY MIRROR GLASS

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY SPECIFIC ROUGH OPENING SIZES PRIOR TO ORDERING ALL WINDOWS AND DOORS.
2. REFER TO EXTERIOR ELEVATIONS, A200'S, FOR EXTERIOR FINISHES.
3. ALL DOOR GLAZING, SIDELIGHTS, AND TRANSITIONS TO BE TEMPERED SAFETY GLASS WHETHER NOTED OR NOT.
4. ANY HOLLOW METAL FRAME IN CONTACT WITH ANY WET AREAS SHALL BE GALVANIZED MIN. G-60 WHETHER NOTED OR NOT.
5. EGRESS DOORS TO THE EXTERIOR, TO A STAIRWELL, OR TO EXIT PASSAGEWAY SHALL RECEIVE A TACTILE SIGN STATING 'EXIT' ADJACENT TO THE DOOR.
6. ANY ENTRY DOORS WITH DEADBOLT TO RECEIVE A SIGN ON OR ADJACENT TO THE DOOR STATING 'THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.' THE SIGN SHALL BE IN LETTERS 1" HIGH ON A CONTRASTING BACKGROUND.
7. ALL DOORS TO HAVE EITHER FLOOR STOP OR WALL STOP, DEPENDING ON LOCATION OF ADJACENT WALLS. DOOR MFGR TO DETERMINED APPROPRIATE TYPE OF STOP.
8. LISTED HARDWARE MAKES AND MODELS ARE A BASIS OF DESIGN, AND DESCRIBE THE INTENDED FUNCTIONALITY OF THE DOORS. ADDITIONAL ITEMS, PRODUCT OPTIONS, OR ACCESSORIES MAY BE REQUIRED FOR COMPLETE INSTALLATION AND OPERATION. THE HARDWARE SUPPLIER AND/OR INSTALLER IS TO COORDINATE AND PROVIDE ALL REQUIRED HARDWARE AND ACCESSORIES FOR A FULLY FUNCTIONAL DOOR.
9. PROVIDE FIBERGLASS DOORS & FRAMES FOR AQUARIUM-RELATED BACK OF HOUSE AREAS, TYPICAL.



DOOR HEAD & JAMB DETAILS

RECEIVED
Code - 030
FEB 10 2026
MONROE COUNTY PLANNING DEPT

STATE OF FLORIDA
ERIC MALONEY
REGISTERED ARCHITECT
Scott C. Maloney (Kimley»Horn)
Florida Registration #26161
COA #: AA26001059

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT NO.: CN667

SYMBOL	DATE	REVISION
1	10/7/2025	Revision 1

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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Key Largo, Florida
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www.k2mdesign.com
PROP. REG. AA26001059
Architecture, Engineering, Facility Asset Management
Based on Trust and Results
Charles Kramer (Architect) | Jeff Kramer (Principal Planner)
Matthew Lambert (Architect) | Jeff Kramer (Principal Planner)

Sheet Title: DOOR HARDWARE, DETAILS, SCHEDULE
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A500

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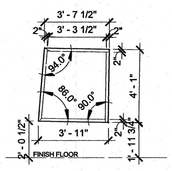
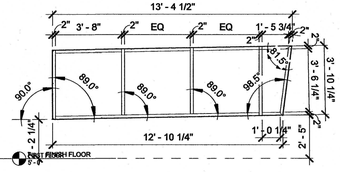
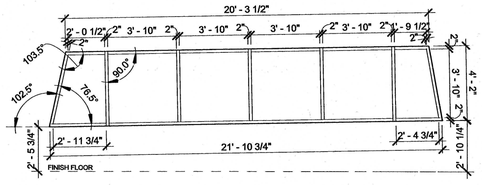
STOREFRONT SCHEDULE

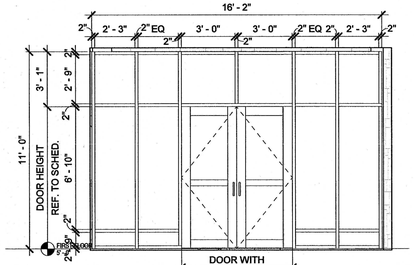
STOREFRONT No.	WIDTH	HEIGHT	LOCATION	FRAME TYPE	SILL	JAMB	INTER.	HEAD	REMARKS
A	3' - 11"	11' - 0 119/128"	Exterior	ALUM.					
B	13' - 4 1/2"	12' - 10"	Exterior	ALUM.					
C	21' - 10 3/4"	22' - 4"	Exterior	ALUM.					
D	16' - 9 187/256"	11' - 0"	Exterior	ALUM.					
E	22' - 0"	7' - 11"	Exterior	ALUM.					
F	24' - 1"	11' - 2"	Exterior	ALUM.					
F	13' - 1"	15' - 3 37/128"	Exterior	ALUM.					
F	24' - 3 7/64"	4' - 10 203/256"	Exterior	ALUM.					
F	21' - 4 209/256"	4' - 10 203/256"	Exterior	ALUM.					
F	6' - 0 169/256"	4' - 10 203/256"	Exterior	ALUM.					
G	10' - 0"	11' - 2"	Exterior	ALUM.					
H	11' - 0"	18' - 2 11/32"	Exterior	ALUM.					
H	21' - 6"	15' - 10"	Exterior	ALUM.					
I	11' - 6"	8' - 1"	Interior	ALUM.					
XX	3 1/4"	14' - 4 1/2"	Exterior						
XX	83/128"	13' - 3 1/2"	Exterior						
XX	1 1/2"	14' - 4 1/2"	Exterior						

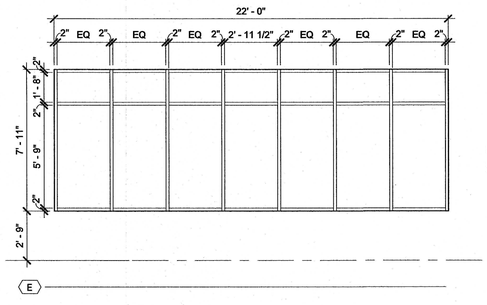
WINDOW TYPES

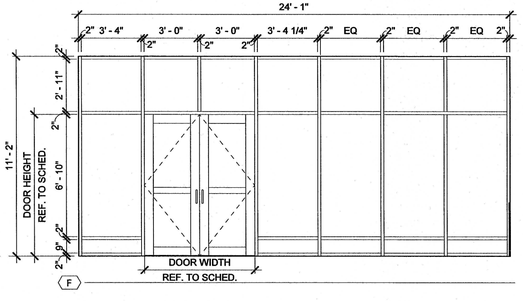


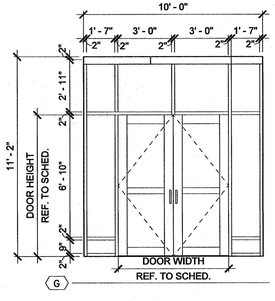


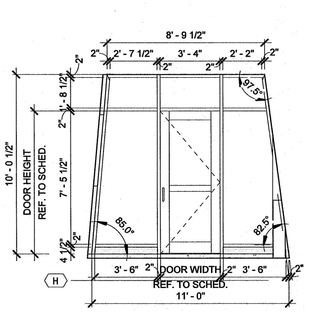


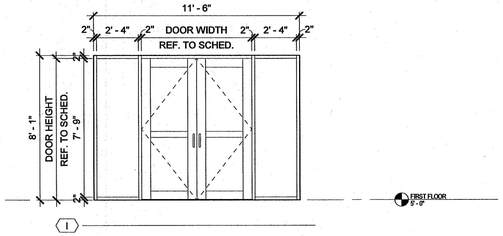








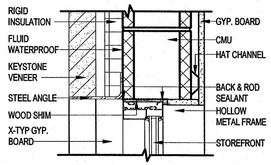




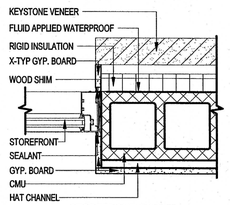
SYMBOLS		GLAZING TYPES
T	TEMPERED GLASS	TYPE 1 – 1/4" TEMPERED
HM	HOLLOW METAL.	TYPE 2 – 1/4" FIRE RATED GLASS
WD	SOLID CORE WOOD DOOR.	TYPE 3 –9/16" LAMINATED POLYCARBONATE (60 MIN.)
ALUM	ALUMINUM.	TYPE 4 –7/16" LAMINATED POLYCARBONATE
PTD	PAINTED. REFER TO FINISH SCHEDULE.	TYPE 5 – 1" INSULATED
MANUF	FACTORY APPLIED FINISH. REFER TO FINISH SCHEDULE.	TYPE 6 – 1.25" SECURITY GLASS (EXTERIOR ONLY)
STN	STAINED. REFER TO FINISH SCHEDULE.	TYPE 7 – ONE WAY MIRROR GLASS
STL	STEEL	
S	SMOKE LABELED / SEALED	

ABBREVIATIONS	
FH	FRAME HEAD
FJ	FRAME JAMB 1
1	FRAME JAMB 2
FJ	INTERMEDIATE
2	VERTICAL
IV	INTERMEDIATE
IH	HORIZONTAL
FS	FRAME SILL

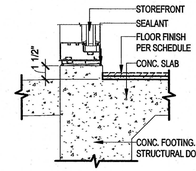
GENERAL NOTES	
1.	CONTRACTOR SHALL VERIFY SPECIFIC ROUGH OPENING SIZES PRIOR TO ORDERING ALL WINDOWS,
2.	REFER TO EXTERIOR ELEVATIONS, A311 SERIES, FOR EXTERIOR FINISH SCHEDULE.
3.	ALL GLAZING DIRECTLY ADJACENT TO DOORS TO BE TEMPERED SAFETY GLASS WHETHER NOTED OR NOT.



STOREFRONT HEAD 03



STOREFRONT JAMB 02



STOREFRONT SILL 01

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MONROE COUNTY PLANNING DEPT.

GW K2M WO ROTO Kimley»Horn ASSOCIATES, INC.
CURRIS + MOSER ARCHITECTS

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN657

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

Key Largo, Florida
Key West, Florida
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Architecture, Engineering,
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STATE OF FLORIDA
SCOTT C. MARONEY
LICENSED
AR 0019161
REGISTERED ARCHITECT
Scott C. Maroney AR0019161
Expiration Date: 02/28/2027
Lic. # AA26001059

JOHN PENNEKAMP

Sheet Title: STOREFRONT AND WINDOW SCHEDULE

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A501

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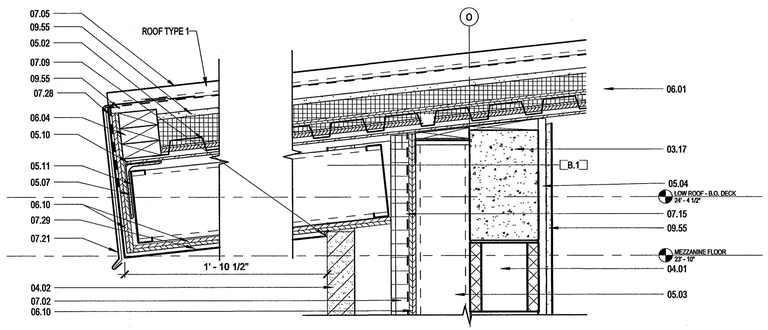
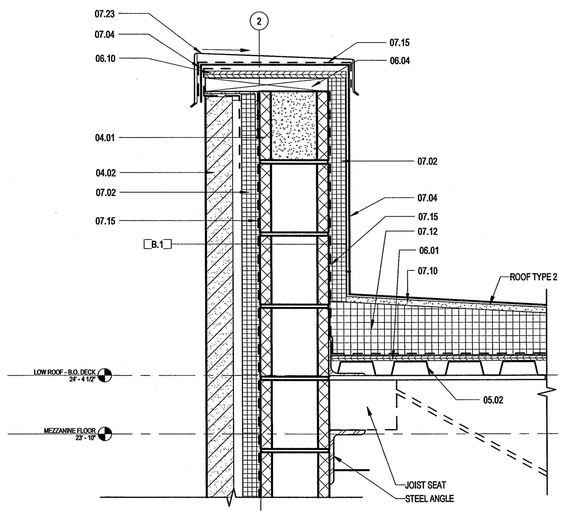
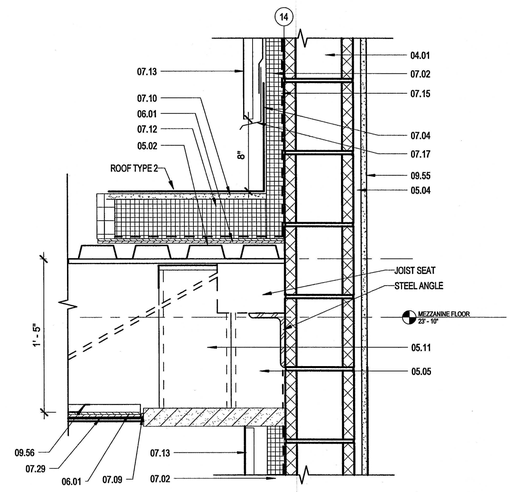


1 DETAIL AT T.O. WALL B.1, TYP
1 1/2" = 1'-0"



2 DETAIL AT PARAPET WALL, TYP
1 1/2" = 1'-0"

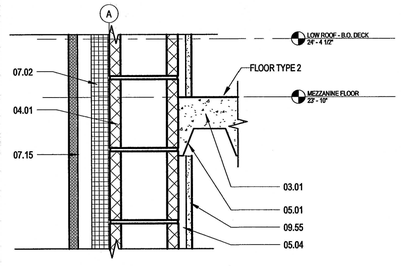


3 DETAIL AT ROOF TYPE 2 AND WALL B.2
1 1/2" = 1'-0"

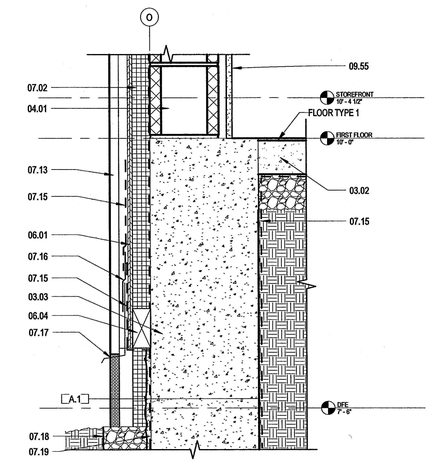
4 DETAIL AT ROOF TYPE 2 AND WALL B.1
1 1/2" = 1'-0"

5 DETAIL AT EXTERIOR WALL INSET
1 1/2" = 1'-0"

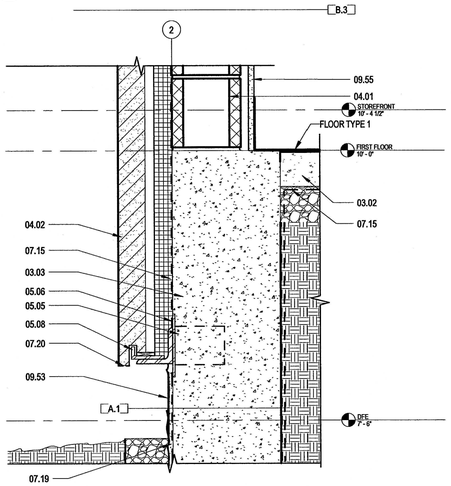
6 DETAIL AT MEZZANINE LEVEL ROOF
1 1/2" = 1'-0"



7 DETAIL AT MEZZANINE FLOOR
1 1/2" = 1'-0"



8 DETAIL AT B.O. WALL B.2
1 1/2" = 1'-0"



9 DETAIL AT B.O.WALL B.1
1 1/2" = 1'-0"

NOTE	DESCRIPTION
03.01	3-1/2" CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING. SEE STRUCTURAL DRAWINGS. (033100)
03.02	4" REINFORCED CAST-IN-PLACE CONCRETE SLAB. SEE STRUCTURAL DRAWINGS. (033100)
03.03	12" REINFORCED CAST-IN-PLACE CONCRETE WALL. SEE STRUCTURAL DRAWINGS. (033100)
03.17	8" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
03.18	12" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
04.03	BOND BEAM, SEE STRUCTURAL FOR DETAILS
05.01	STEEL DECKING (053100)
05.02	1.5 WR 22 METAL ROOF DECK (053100)
05.03	COLD-FORMED STEEL FRAMING, 8" (054100)
05.04	7/8" HAT CHANNEL
05.05	STRUCTURAL STEEL FRAMING (REFER TO STRUCTURAL FOR MORE INFORMATION)
05.06	WELD PLATE IN CONCRETE WALL
05.07	STRUCTURAL STEEL ANGLE, SEE STRUCTURAL
05.08	LATERAL ADJUSTING STEEL PLATE
05.09	COLD-FORMED STEEL FRAMING TRACK
05.10	JOIST, TOP CORD EXTENSION
05.11	COLD-FORMED STEEL FRAMING, 8" (054000)
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.04	WOOD BLOCKING AS REQUIRED
06.10	3/4" PRT EXTERIOR PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.04	MODIFIED BITUMINOUS MEMBRANE ROOFING (075200)
07.05	STANDING SEAM METAL ROOF (076100)
07.06	BATT INSULATION, 5 1/2" UNO (OR MAX THICKNESS FOR LOCATION)
07.07	FLASHING
07.09	BACKER ROD & SEALANT
07.10	COVER BOARD
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.13	UHPC ARCHITECTURAL PANEL, BOD: TAKTL
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.16	TRANSITION MEMBRANE
07.17	SS CONTINUOUS METAL FLASHING
07.18	4" MIN. BLACK METAL EDGING
07.19	BELOW-GRADE WATERPROOFING
07.20	DRIP EDGE
07.21	SS DRIP EDGE W/ CONT. METAL CLEAT
07.23	METAL COPING
07.27	JOINT SEALANT AND BACKER ROD
07.28	SELF-ADHERING SHEET MEMBRANE UNDERLAYMENT
07.29	METAL SOFFIT, MATCH ROOF FINISH. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
09.53	1/2" STUCCO, PAINTED. COLOR TBS BY ARCHITECT. (092400)
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.56	7/8" FURRING CHANNEL (092900)

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SYMBOL	REVISION	DATE
1	Revision 1	12/10/2025

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

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Interior Design,
Facility Asset Management

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: GN687

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Scott C. Maloney, License No. AR93116
Date: 12/10/2025
Signature Not Valid Unless Signed and Sealed
CA# ★ AA26001059

JOHN PENNEKAMP

Sheet Title: EXTERIOR DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A502

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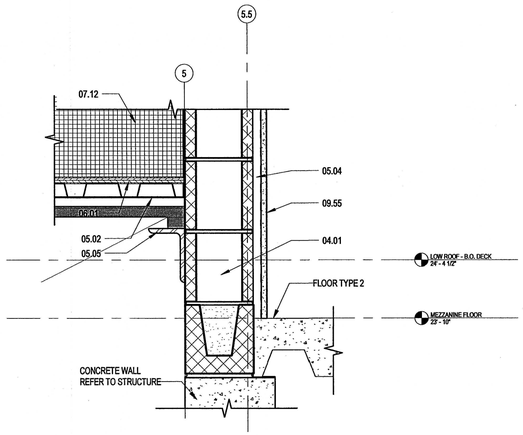
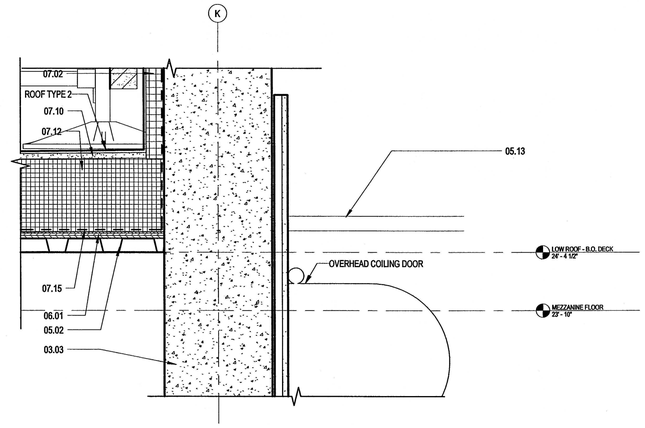
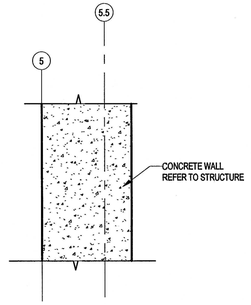


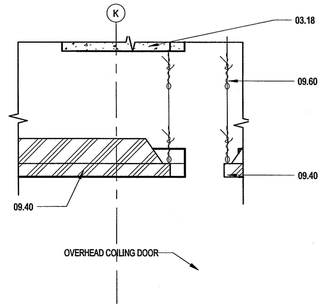
1 DETAIL AT MEZZANINE FLOOR
1 1/2" = 1'-0"



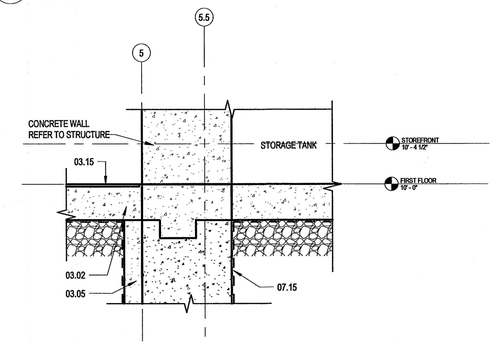
2 DETAIL AT MEZZANINE FLOOR
1 1/2" = 1'-0"



3 WALL
1 1/2" = 1'-0"



4 DETAIL BELOW MEZZANINE FLOOR
1 1/2" = 1'-0"



5 DETAIL AT FIRST FLOOR
1 1/2" = 1'-0"

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
03.02	4" REINFORCED CAST-IN-PLACE CONCRETE SLAB. SEE STRUCTURAL DRAWINGS. (033100)
03.03	12" REINFORCED CAST-IN-PLACE CONCRETE WALL. SEE STRUCTURAL DRAWINGS. (033100)
03.05	CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
03.15	CONCRETE FLOOR FINISH - COORDINATE W/ I100 FLOOR FINISH INFORMATION
03.18	12" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
05.02	1.5 WR 22 METAL ROOF DECK (053100)
05.04	7/8" HAT CHANNEL
05.05	STRUCTURAL STEEL FRAMING (REFER TO STRUCTURAL FOR MORE INFORMATION)
05.13	UNISTRUT BRACING
06.01	1/2" PT PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.10	COVER BOARD
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
09.40	PERFORATED METAL PANEL CEILING SYSTEM, SEE RCPs
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.60	CEILING ASSEMBLY, SUSPENSION WIRE (095100)

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SYMBOL	REVISION	DATE

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DRAWN BY: K2M
REVIEWED BY: CA/ BK
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COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

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SCOTT C. MALONEY
LICENSE
NUMBER
AR0018961
REGISTERED ARCHITECT
Scott C. Maloney, Registered Architect
License #AR0018961
COA: # AA26001069

JOHN PENNEKAMP

Sheet Title: EXTERIOR DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A503

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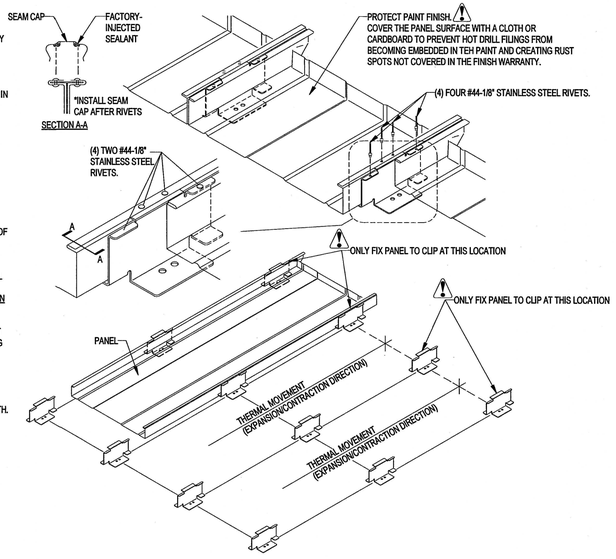
ERECTOR NOTE: FIXED PANEL INSTALLATION METHOD:

- TYPICALLY, PANELS ARE 'FIXED' ALONG THE RIDGE/HIP/HEAD CONDITIONS AND PANEL THERMAL MOVEMENT IS DIRECTED TOWARD THE EAVE/SILL/VALLEY CONDITIONS.
- FIX (MECHANICAL ATTACHED) PANELS TO CLIPS AS SHOWN.
- PROTECT THE PANEL'S PAINT FINISH FROM HOT DRILL FILINGS. THESE FILINGS WILL BECOME SELF-EMBEDDED IN THE PAINT AND CREATE RUST SPOTS NOT COVERED IN THE FINISH WARRANTY.
- SNAP ON THE SEAM CAP AFTER THE PANEL HAS BEEN RIVETED TO THE PANEL CLIPS. SEE DRAWING.
- USE THE HAND CRIMPING TOOL AND CRIMP THE SEAM CAPS AT THESE FIXED LOCATIONS.
- DO NOT RUN THE MOTORIZED ELECTRIC SEAMING MACHINE OVER THESE FIXED LOCATIONS.
-

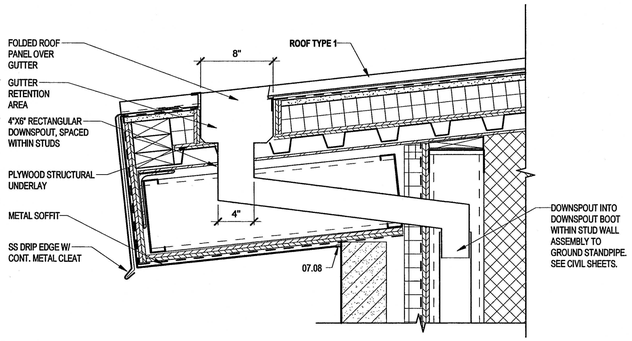
ERECTOR NOTE: FIXED PANEL LOCATION EXPLANATION

- THE FIXED PANEL LOCATIONS ILLUSTRATED ON THE ROOF PLAN DESIGNATE A "FIXED LOCATION" BETWEEN THE PANEL AND PANEL CLIP.
- THIS "FIXED LOCATION" IS A MECHANICAL CONNECTION BETWEEN THESE TWO COMPONENTS, PANEL AND PANEL CLIP.
- A "FIXED LOCATION" CAN ONLY OCCUR AT ONE LOCATION ON EACH PANEL.
- DO NOT ATTACH EACH PANEL CLIP TO THE PANEL.
- THE PANEL MUST BE FIXED (MECHANICAL ATTACHED) AT ONE LOCATION AND ALL REMAINING PANEL CLIPS ALONG THE PANEL MUST NOT BE ATTACHED.
- ONCE THE PANEL IS FIXED AT THE ONE LOCATION, THE REMAINING NON-ATTACHED PANEL CLIPS WILL ALLOW PANEL THERMAL MOVEMENT.
- THIS THERMAL MOVEMENT IS EXPANSION AND CONTRACTION OF THE PANEL ALONG ITS' ENTIRE LENGTH.



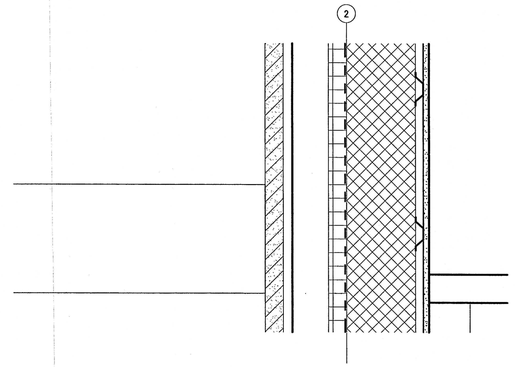
1 DETAIL - ROOF PANEL SPAN

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
07.08	SEALANT, COLOR TO MATCH ADJACENT OPENING INFILL SURFACE.
10.06	PRE-ENGINEERED ALUMINUM PERGOLA SYSTEM, BOD: KNOTWOOD, COLOR TO MATCH MANUF. STANDARD COLOR SELECTIONS.



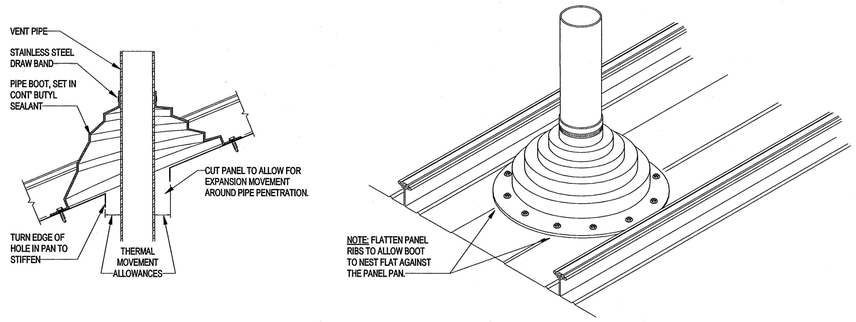
2 DETAIL AT CONCEALED GUTTER

1 1/2" = 1'-0"

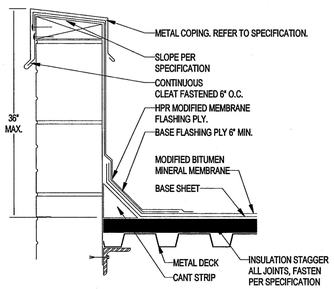


3 DETAIL - PERGOLA AT SOUTH WALL

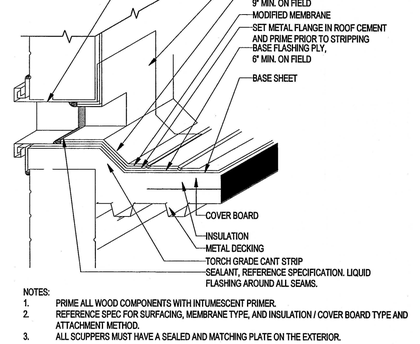
1 1/2" = 1'-0"



4 DETAIL - ROOF SS PENETRATION

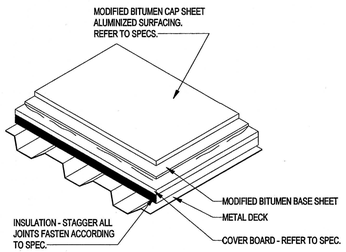


5 DETAIL - ROOF PARAPET W/ COPING

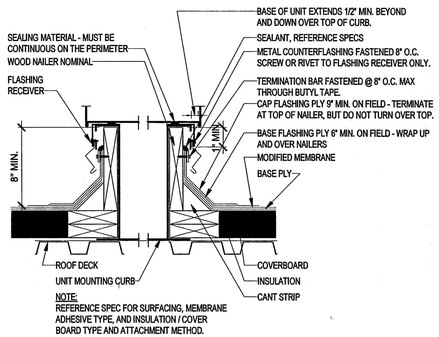


NOTES:
1. PRIME ALL WOOD COMPONENTS WITH INTUMESCENT PRIMER.
2. REFERENCE SPEC FOR SURFACING, MEMBRANE TYPE, AND INSULATION / COVER BOARD TYPE AND ATTACHMENT METHOD.
3. ALL SCUPPERS MUST HAVE A SEALED AND MATCHING PLATE ON THE EXTERIOR.

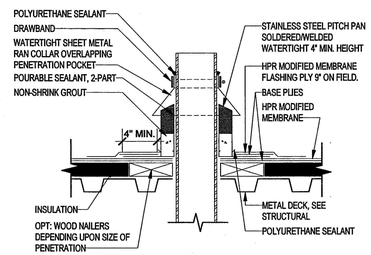
6 DETAIL - ROOF SCUPPER OVERFLOW



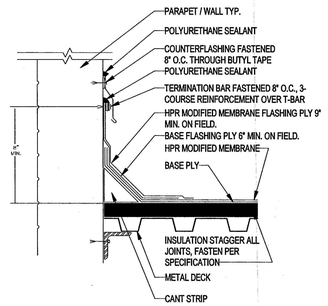
7 DETAIL - ROOF MINERAL FINISH



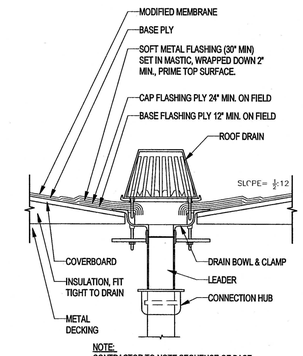
8 DETAIL - ROOF CURB - AC UNIT



9 DETAIL - ROOF PITCH POCKET



10 DETAIL - ROOF COUNTERFLASHING



11 DETAIL - ROOF DRAIN

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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: ON667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M

STATE OF FLORIDA • CHRISTOPHER A. MADDEN • LICENSED • REGISTERED ARCHITECT
Scott C. Madden, AR0026591
Expiration Date 02/28/2027
COA # AA26001059

JOHN PENNEKAMP
ROOF DETAILS
Sheet Title:
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A504

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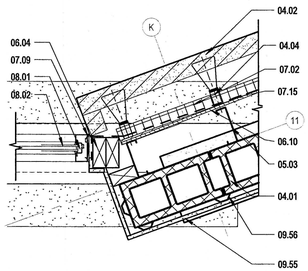
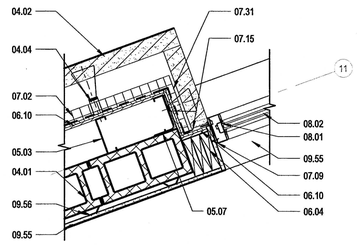
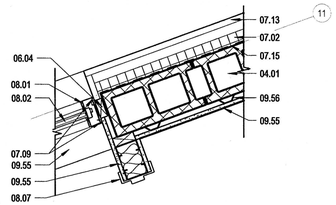


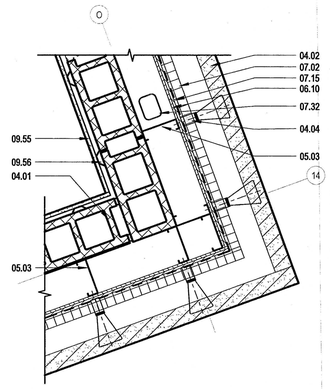
1 PLAN DETAIL - NORTH ENTRY EAST
1" = 1'-0"



2 PLAN DETAIL - WINDOW JAMB B.1
1" = 1'-0"

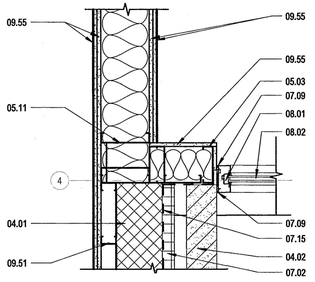


3 PLAN DETAIL - WINDOW JAMB B.2
1" = 1'-0"

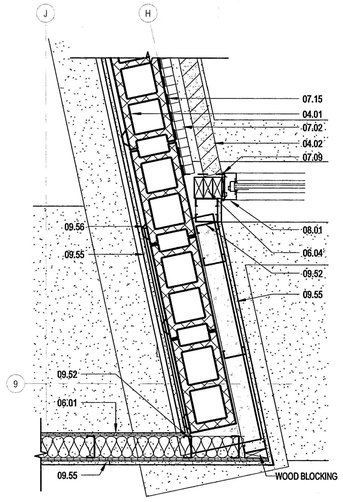


4 PLAN DETAIL - SOUTHEAST CORNER B.1
1" = 1'-0"

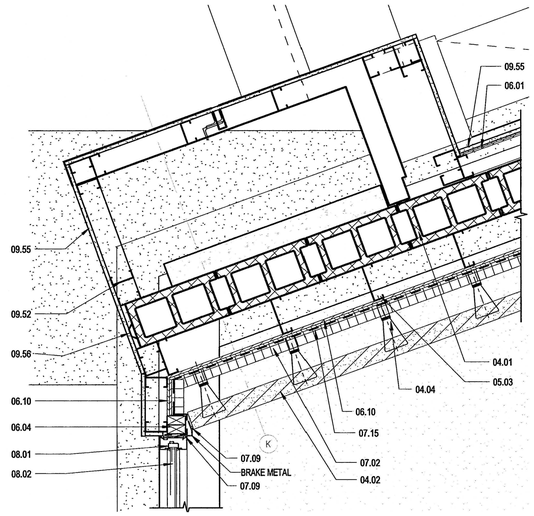
FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	**Keynote Text**
03.17	8" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
04.04	MASONRY TIE, BOD: Tie-HVR 195VB Anchor System for Rubble Stone
05.03	COLD-FORMED STEEL FRAMING, 6" (054100)
05.05	STRUCTURAL STEEL FRAMING (REFER TO STRUCTURAL FOR MORE INFORMATION)
05.07	STRUCTURAL STEEL ANGLE, SEE STRUCTURAL
05.11	COLD-FORMED STEEL FRAMING, 8" (054000)
05.13	UNISTRUT BRACING
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.04	WOOD BLOCKING AS REQUIRED
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.09	BACKER ROD & SEALANT
07.13	UHPC ARCHITECTURAL PANEL, BOD: TAKTL
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.31	1" RIGID INSULATION
07.32	IN-WALL DOWNSPOUT SYSTEM, CONNECTED FROM INSET ROOF DRAIN TO UNDERGROUND SYSTEM, SEE CIVIL. GALVANIZED OR PRE-FINISHED MATERIAL TO BE USED. INSULATE PIPE TO PREVENT CONDENSATION.
08.01	STOREFRONT ASSEMBLY, BASIS OF DESIGN: KAWNEER VG451T, CENTER SET GLAZING
08.02	EXTERIOR GLAZING DESIGN: VITRO VISTACOOL (2) PACIFICA GLASS + SOLARBAN 90 (3)
08.07	HOLLOW METAL DOOR FRAME, PAINTED.
09.41	FRP PANEL, SEE FINISH SCHEDULE
09.51	2-1/2" METAL STUD FRAMING (092200)
09.52	3-5/8" METAL STUD FRAMING (092200)
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)
09.56	7/8" FURRING CHANNEL (092900)



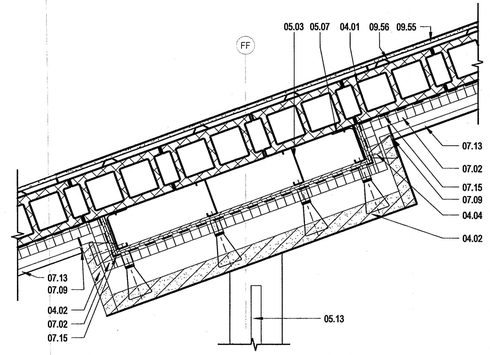
5 PLAN DETAIL - SOUTH ENTRY STOREFRONT WEST
1" = 1'-0"



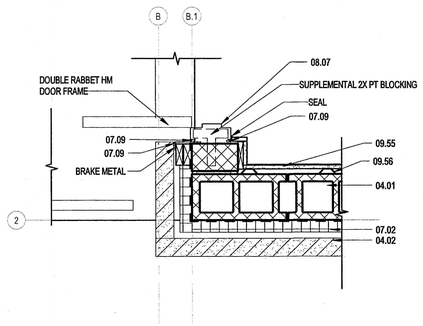
12 PLAN DETAIL - NORTH ENTRY WEST
1" = 1'-0"



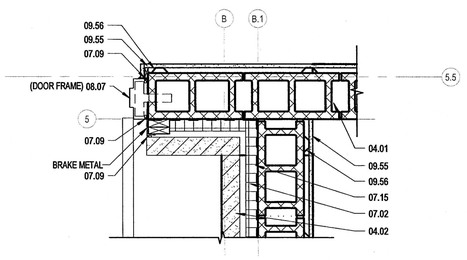
7 PLAN DETAIL - STOREFRONT EAST
1" = 1'-0"



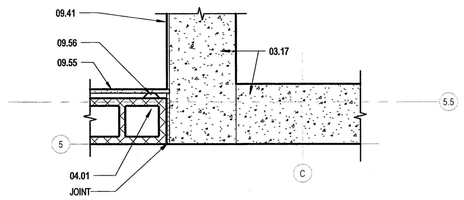
8 PLAN DETAIL - B.1 TO B.2 CONNECTION
1" = 1'-0"



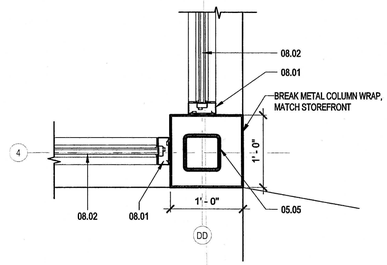
9 PLAN DETAILS - SOUTHWEST CORNER
1" = 1'-0"



10 PLAN DETAIL - LOADING DOOR
1" = 1'-0"



11 PLAN DETAIL - CMU TO CONCRETE
1" = 1'-0"



6 PLAN DETAIL - COLUMN + STOREFRONT
1" = 1'-0"

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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. PILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
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SCOTT C. MALONEY
LICENSED
REGISTERED ARCHITECT
Scott C. Maloney, Registered Architect
License Number AR93161
Date: 02/10/2026
COA # AA26001059

Sheet Title: EXTERIOR PLAN DETAILS
Project Title: JOHN PENNEKAMP
NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A505

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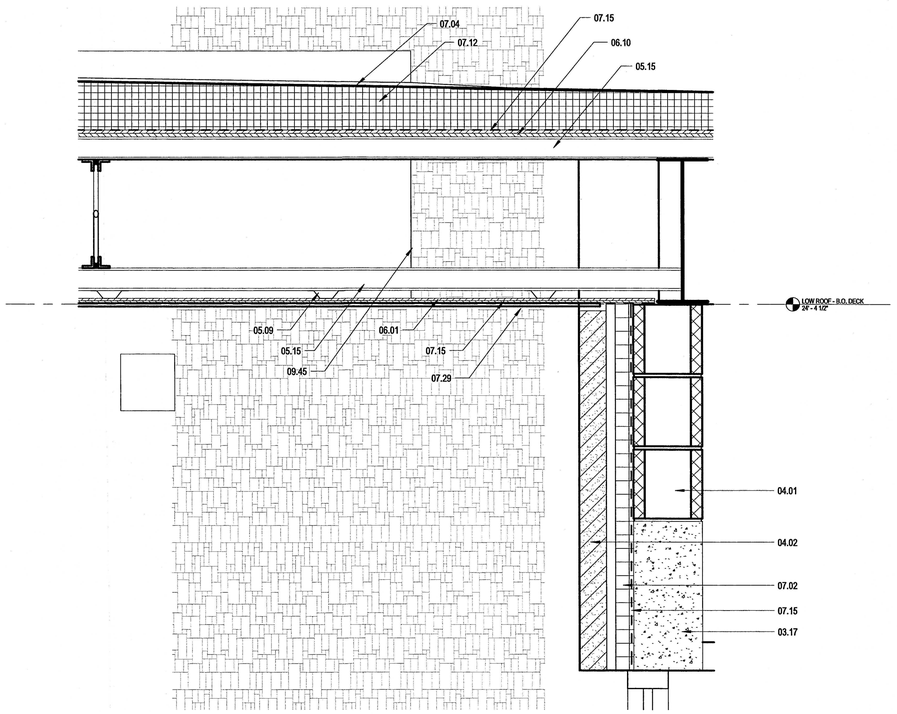
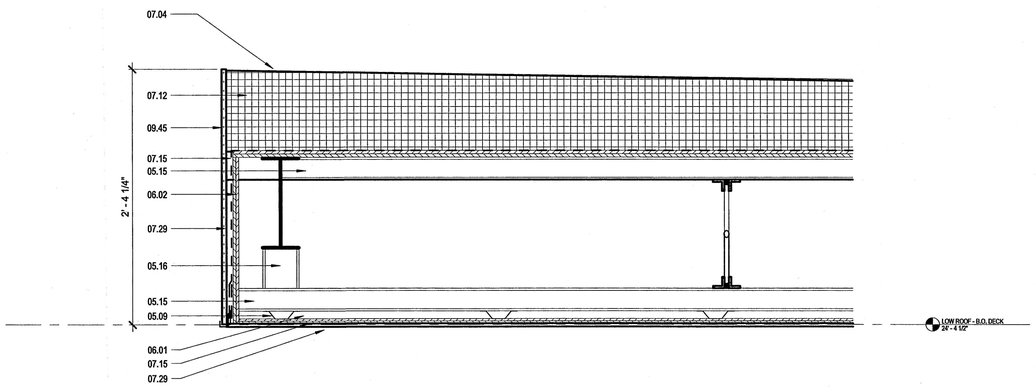


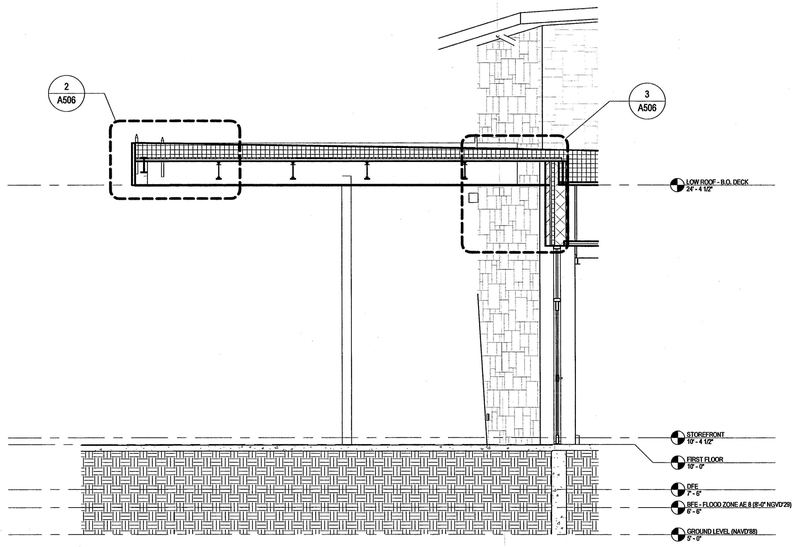
3 DETAIL - NORTH CANOPY ENTRY DETAIL

1 1/2" = 1'-0"



2 DETAIL - NORTH CANOPY EDGE DETAIL

1 1/2" = 1'-0"



1 DETAIL - NORTH ENTRY CANOPY

1/4" = 1'-0"

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PLANNING DEPT.

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
03.17	8" REINFORCED CAST-IN-PLACE CONCRETE BEAM. SEE STRUCTURAL DRAWINGS
04.01	8"X8"X16", 3-CORE CMU BLOCK WALL (042200)
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
05.09	COLD-FORMED STEEL FRAMING TRACK
05.15	
05.16	
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.02	5/8" PT PLYWOOD SHEATHING (061600)
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07.02	2" RIGID INSULATION (072100)
07.04	MODIFIED BITUMINOUS MEMBRANE ROOFING (075200)
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.29	METAL SOFFIT, MATCH ROOF FINISH. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
09.45	DROP DOWN DRAIN PIPE COVER TO MATCH ADJACENT METAL SOFFIT. SEE RCP FOR LAYOUT. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.

GWWO ARCHITECTS | K2M DESIGN | DCD ASSOCIATES, INC | Kimley»Horn

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

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STATE PROJECT No.: CN667

STATE OF FLORIDA · SCOTT C. MALONEY · LICENSED · REGISTERED ARCHITECT
Scott C. Maloney
Boardman Date: 12/12/2025
Florida Reg. No. 0023033
COA: # AA0001069

JOHN PENNEKAMP

Sheet Title: CANOPY DETAILS - NORTH ENTRY

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A506

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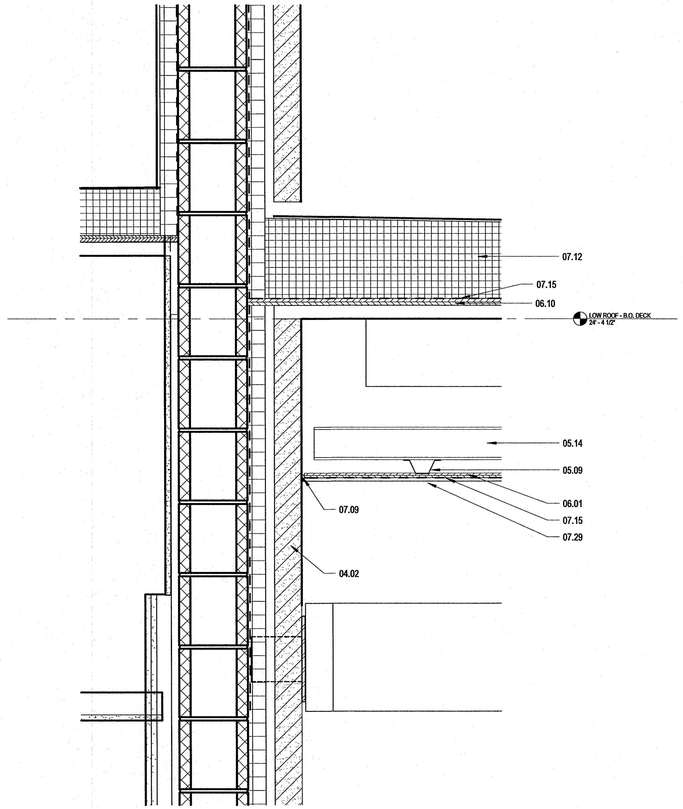
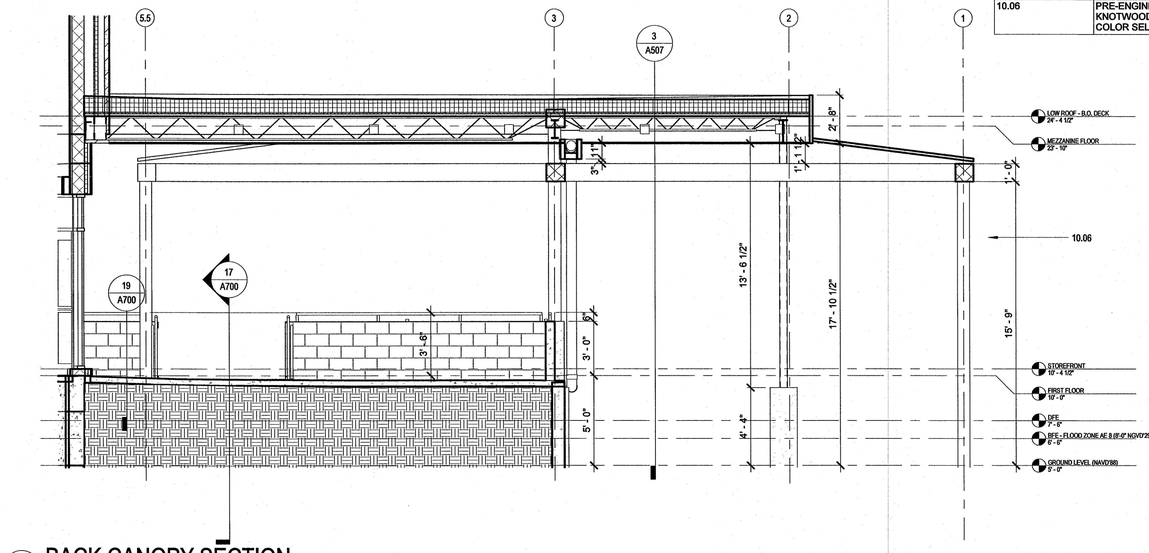
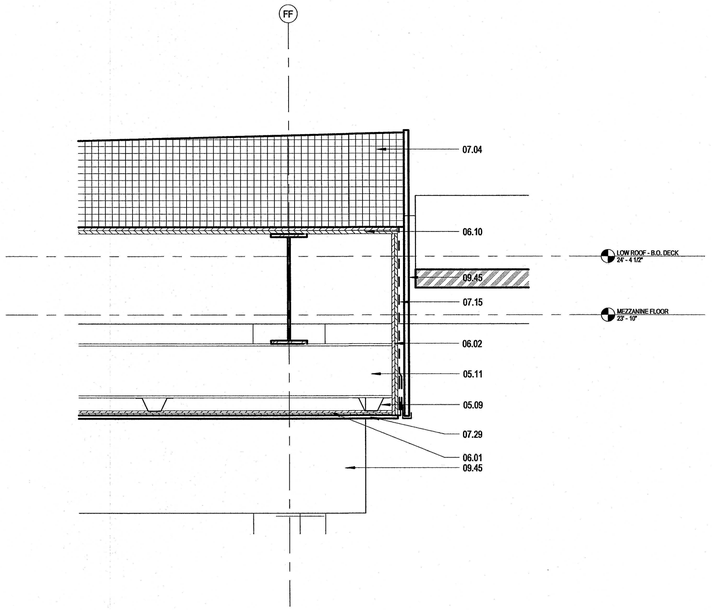
FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
04.02	OOLITE STONE, SEE DETAILS FOR THICKNESS (044000)
05.09	COLD-FORMED STEEL FRAMING TRACK
05.11	COLD-FORMED STEEL FRAMING, 8" (054000)
05.14	
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.02	5/8" PT PLYWOOD SHEATHING (061600)
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07.04	MODIFIED BITUMINOUS MEMBRANE ROOFING (075200)
07.09	BACKER ROD & SEALANT
07.12	TAPERED RIGID INSULATION, 3" MIN.
07.15	SELF-ADHERED SHEET WATERPROOFING (071300)
07.29	METAL SOFFIT, MATCH ROOF FINISH. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
09.45	DROP DOWN DRAIN PIPE COVER TO MATCH ADJACENT METAL SOFFIT. SEE RCP FOR LAYOUT. BOD: PAC-CLAD FLUSH SOFFIT SYSTEM.
10.06	PRE-ENGINEERED ALUMINUM PERGOLA SYSTEM, BOD: KNOTWOOD, COLOR TO MATCH MANUF. STANDARD COLOR SELECTIONS.



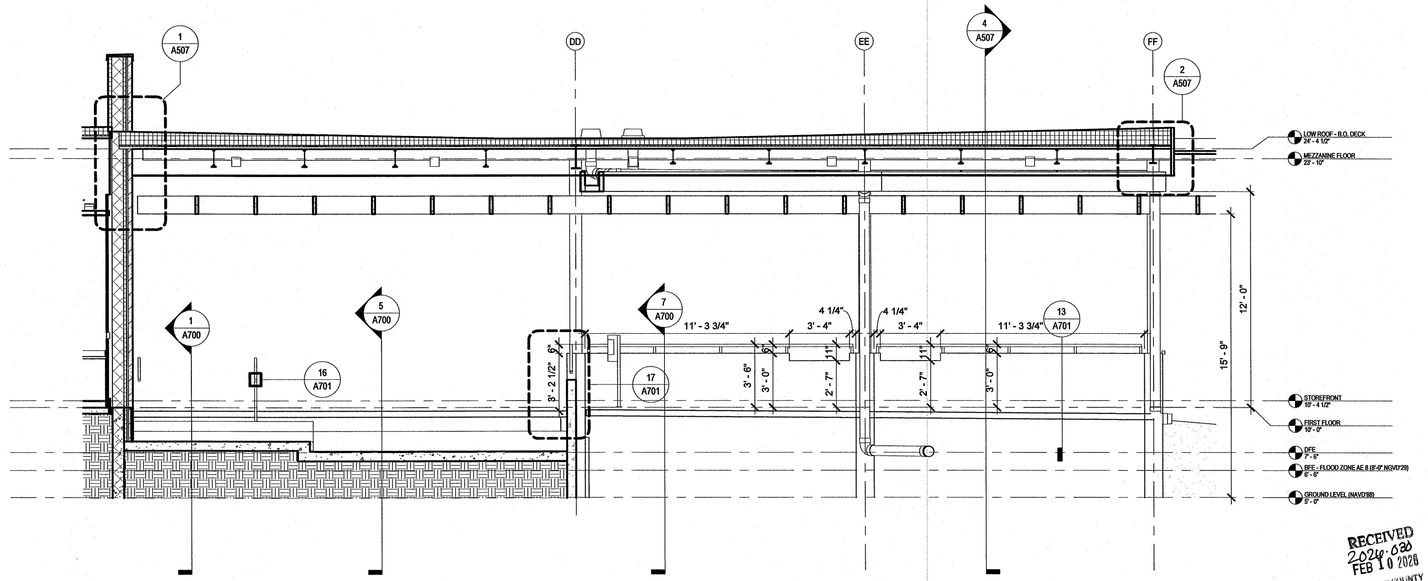
1 DETAIL - SOUTH CANOPY WALL
1 1/2" = 1'-0"



4 BACK CANOPY SECTION
1/4" = 1'-0"



2 DETAIL - SOUTH CANOPY EAVE
1 1/2" = 1'-0"



3 DETAIL - SOUTH ENTRY CANOPY
1/4" = 1'-0"

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STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
Architecture, Engineering, Interior Design, Facility Asset Management

STATE OF FLORIDA
SCOTT C. MALONEY
REGISTERED ARCHITECT
AR92161

JOHN PENNEKAMP
Sheet Title: CANOPY DETAILS - SOUTH ENTRY
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A507

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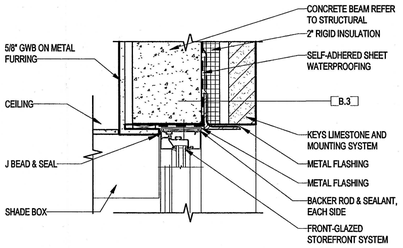
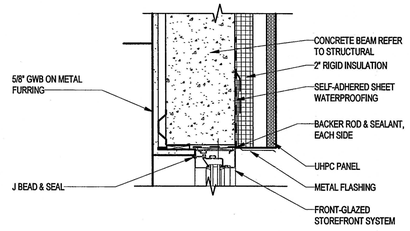


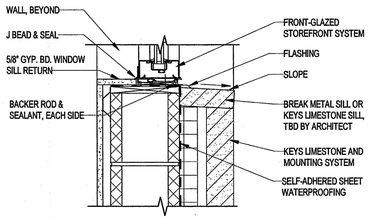
1 DETAIL AT T.O. STOREFRONT, WALL B.1

1 1/2" = 1'-0"



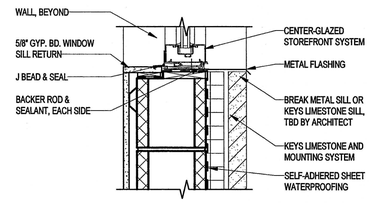
2 DETAIL AT T.O. STOREFRONT, WALL B.2

1 1/2" = 1'-0"



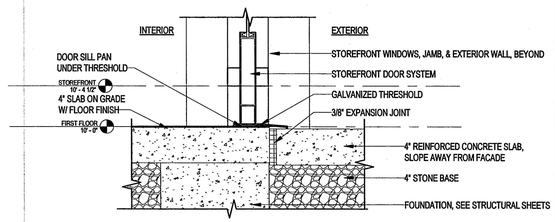
3 DETAIL AT B.O. STOREFRONT, WALL B.1

1 1/2" = 1'-0"



4 DETAIL AT B.O. STOREFRONT, WALL B.2

1 1/2" = 1'-0"



5 DETAIL AT B.O. STOREFRONT, WALL B.2 AT FLOOR

1 1/2" = 1'-0"

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DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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Scott C. Maloney, AR0019161
Date: 12/12/2025
COA: # AA26001059

JOHN PENNEKAMP

Sheet Title: STOREFRONT DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A508

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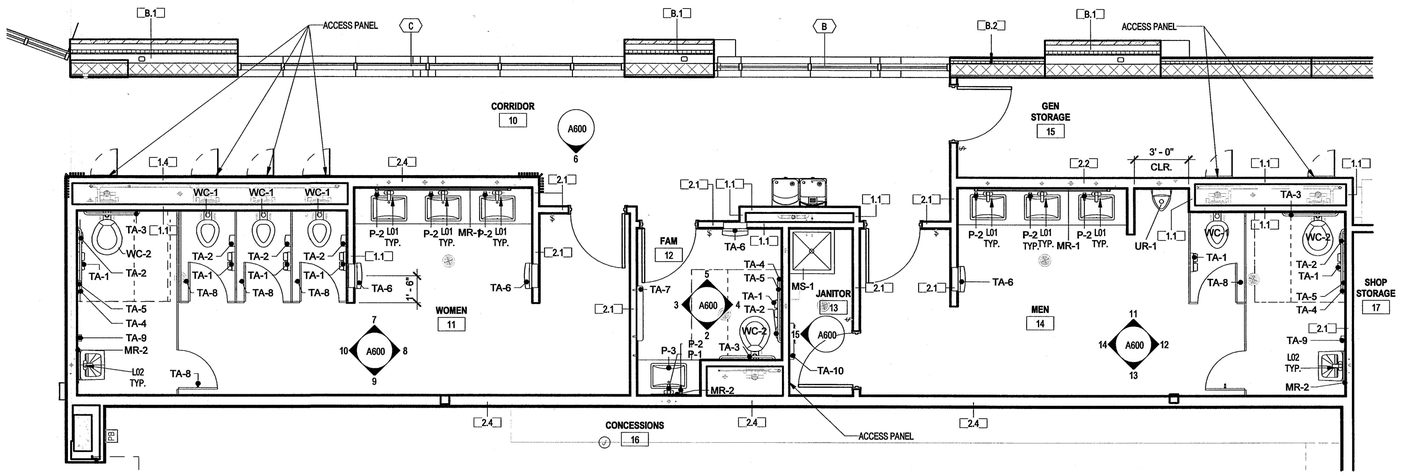
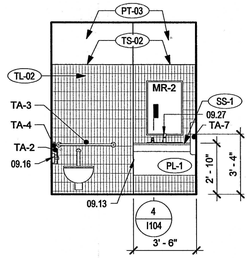
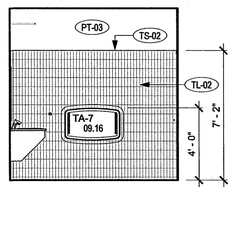


1 ENLARGED PLAN - RESTROOMS
1/4" = 1'-0"

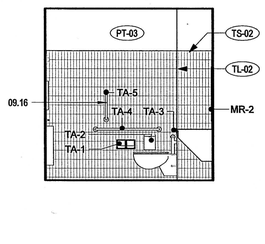
NOTE	DESCRIPTION
09.13	FINISHED END PANEL.
09.16	GC TO ENSURE THAT ALL OPERABLE PARTS OF TOILET ACCESSORIES FALL WITHIN ADA REACH RANGE GUIDELINES.
09.22	REFER TO M.E.P. CONSTRUCTION DOCUMENTATION FOR PLUMBING AND ELECTRICAL COORDINATION. REFER TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION. IF NECESSARY, PROVIDE WATERLINE.
09.26	DOOR TRIM TO BE PAINTED (PT-09) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
09.27	RESTROOM PLUMBING FIXTURES AT CASEWORK INCLUDED:(L-01) SQUARE UNDER MOUNT SINK THAT INCLUDES AUTOMATED FAUCET AND SOAP DISPENSER.
09.28	ACCENT WALL TILE TO DIE INTO THE INSIDE CORNER AND FINISHED WITH BRUSHED STAINLESS STEEL SCHULTER STRIP FOR FINISHED EXECUTION.
09.29	ACCESS PANELS TO BE FINISHED TO MATCH ADJACENT WALL FINISH FOR AN CONCEALED DESIGN INTENTION.
09.30	WALL APPLIED VERTICAL TRIM TO WRAP CORNER AND CONTINUE WOODEN TRIM DETAILS. WALL TO BE PAINTED WITH ADJACENT WALL PAINT PRIOR TO WOODEN TRIM PIECES APPLIED.
09.31	GC TO PROVIDE FRT PLYWOOD BLOCKING BEHIND GYPSUM WALL FOR ADDITIONAL SUPPORT FOR INTERACTIVE "LIVING" GALLERY ART WALL.
09.32	RESTROOM TILE WALL CORNERS - ALL OPEN/ VISIBLE CORNERS TO OBTAIN BRUSHED STAINLESS STEEL SCHLUTER STRIP FOR CORNER PROTECTION, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
09.33	ALL MIRRORS TO BE SHATTER-PROOF, TEMPERED WITH 2" WOODEN FRAME; FRAME CORNERS TO BE MITERED AND PAINTED PT-9; GC TO COORDINATE WITH OWNER & DESIGNER FOR FINAL APPROVAL. PROVIDE BLOCKING BEHIND MIRROR PAINT TO MATCH WALL FINISH. COORDINATE BLOCKING THICKNESS WITH TILE THICKNESS, SO THAT MIRROR HANGS FLUSH WITH MIRROR AND TILES.



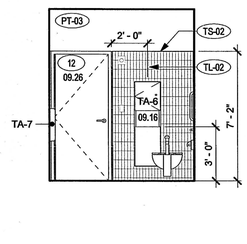
2 INT ELEV - FAMILY 12 SOUTH
1/4" = 1'-0"



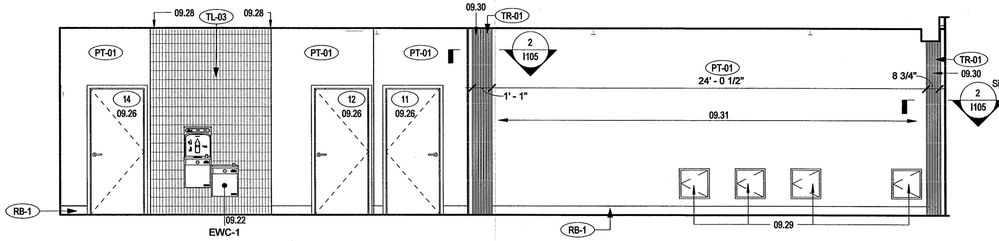
3 INT ELEV - FAMILY 12 WEST
1/4" = 1'-0"



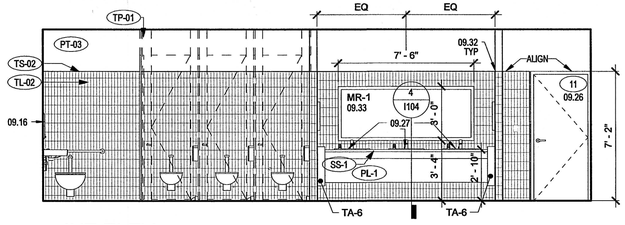
4 INT ELEV - FAMILY 12 EAST
1/4" = 1'-0"



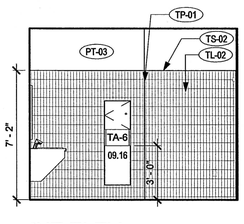
5 INT ELEV - FAMILY 12 NORTH
1/4" = 1'-0"



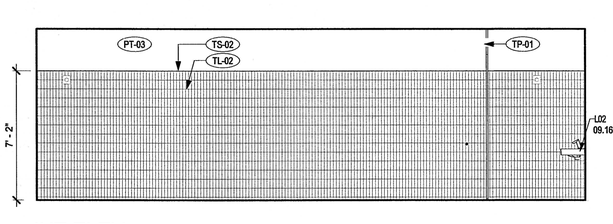
6 INT ELEV - CORRIDOR 10 SOUTH
1/4" = 1'-0"



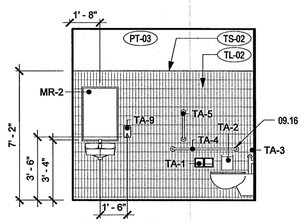
7 INT ELEV - WOMEN 11 NORTH
1/4" = 1'-0"



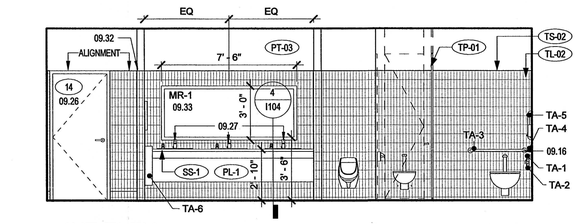
8 INT ELEV - WOMEN 11 EAST
1/4" = 1'-0"



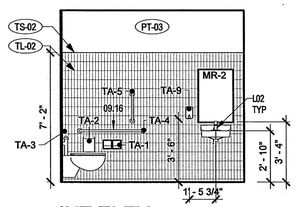
9 INT ELEV - WOMEN 11 SOUTH
1/4" = 1'-0"



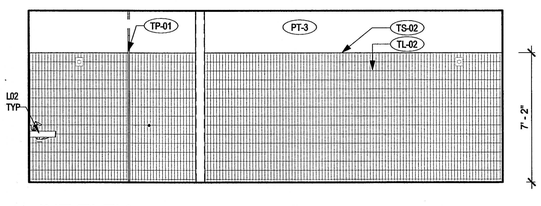
10 INT ELEV - WOMEN 11 WEST
1/4" = 1'-0"



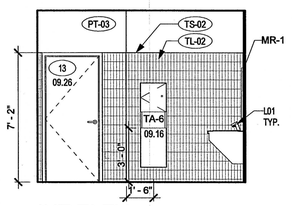
11 INT ELEV - MEN 14 NORTH
1/4" = 1'-0"



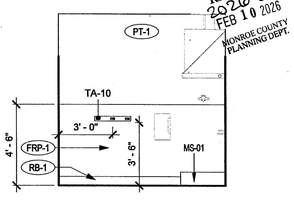
12 INT ELEV - MEN 14 EAST
1/4" = 1'-0"



13 INT ELEV - MEN 14 SOUTH
1/4" = 1'-0"



14 INT ELEV - MEN 14 WEST
1/4" = 1'-0"



15 INT ELEV - JANITOR 13 WEST
1/4" = 1'-0"

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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP- FILE No.: 0000000
STATE PROJECT No.: CN567

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

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STATE OF FLORIDA • LICENSED ARCHITECT • SCOTT C. MALONEY • No. AR93315 • REGISTERED
Scott C. Maloney
Expiration Date: 02/28/2027
Cert. # AA0003029

JOHN PENNEKAMP

Sheet Title: INTERIOR ELEVATIONS - RESTROOMS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A600

PLOTTED: 12/12/2025 1:11:06 PM

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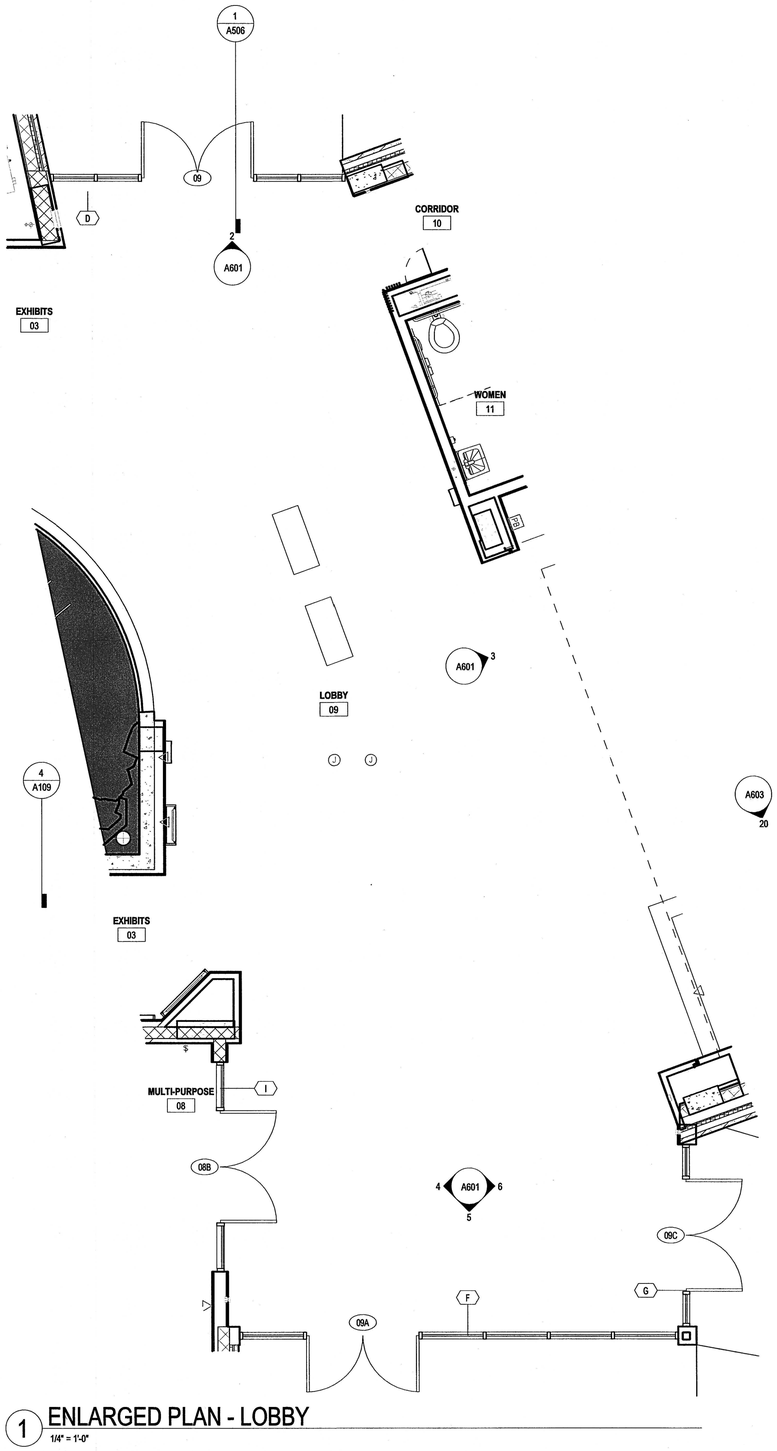
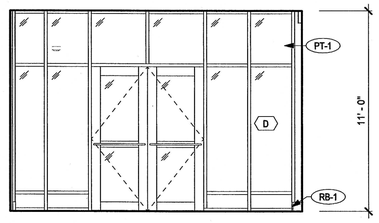
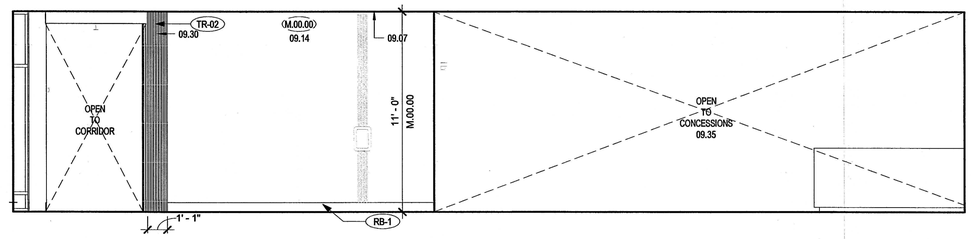


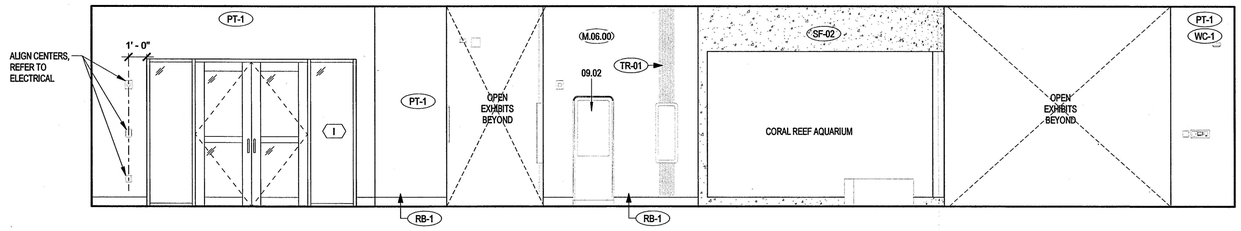
1 ENLARGED PLAN - LOBBY
1/4" = 1'-0"



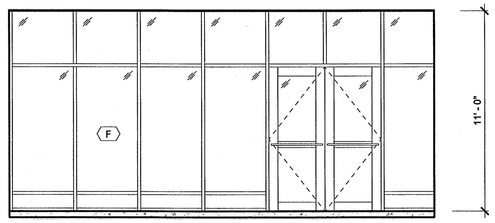
2 INT ELEV - LOBBY NORTH
1/4" = 1'-0"



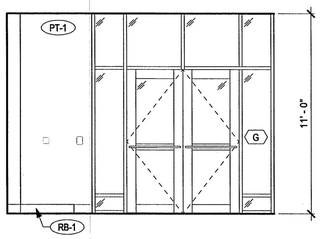
3 INT ELEV - LOBBY EAST
1/4" = 1'-0"



4 INT ELEVATION - LOBBY WEST
1/4" = 1'-0"



5 INT ELEVATION - LOBBY SOUTH
1/4" = 1'-0"



6 INT ELEV - LOBBY 09 EAST
1/4" = 1'-0"

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
09.02	REFER TO ELECTRICAL PLANS FOR POWER COORDINATION FOR INTERACTIVE EXHIBITS.
09.07	REFER TO ENLARGED RCP PLANS FOR ACOUSTICAL SPECIALITY CEILING PANEL LOCATION COORDINATION.
09.14	CUSTOM GRAPHICS TO BE COORDINATED WITH THIRD-PARTY VENDORS. GC TO PROVIDE FRT BLOCKING FOR ADDITIONAL SUPPORT AND PROPER WALL PREPARATION FOR PROPER INSTALLATION METHODS. COORDINATION WITH GC, OWNER, DESIGNER AND ROTO ON PRODUCTION OF GRAPHIC MURALS. OVERALL WALL PAINT TO BE APPLIED AND GRAPHICS TO BE APPLIED OVER PAINTED SURFACE. REFER TO GRAPHICS VENDOR FOR PREPARATION OF WALL AND INSTALLATION RECOMMENDATIONS.
09.30	WALL APPLIED VERTICAL TRIM TO WRAP CORNER AND CONTINUE WOODEN TRIM DETAILS. WALL TO BE PAINTED WITH ADJACENT WALL PAINT PRIOR TO WOODEN TRIM PIECES APPLIED.
09.35	REFER TO CONCESSIONS ELEVATION AND MILLWORK SECTIONS FOR ALL COORDINATION CONSULTATION. POWER TO BE COORDINATED AS SHOWN IN ELECTRICAL DRAWINGS.

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SYMBOL	REVISION	DATE

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COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

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DRAWN BY: GWWO
REVIEWED BY: CAV BK
Consultant:

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Architecture, Engineering,
Interior Design,
Planning & Asset Management

STATE OF FLORIDA
CHRISTOPHER A. VAN BLARICOM
LICENSED ARCHITECT
No. AR93161
Signature Date: 12/05/2025
Sheets Covered: All
COA #: AA26001599

JOHN PENNEKAMP

Sheet Title: INTERIOR ELEVATIONS - LOBBY

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A601

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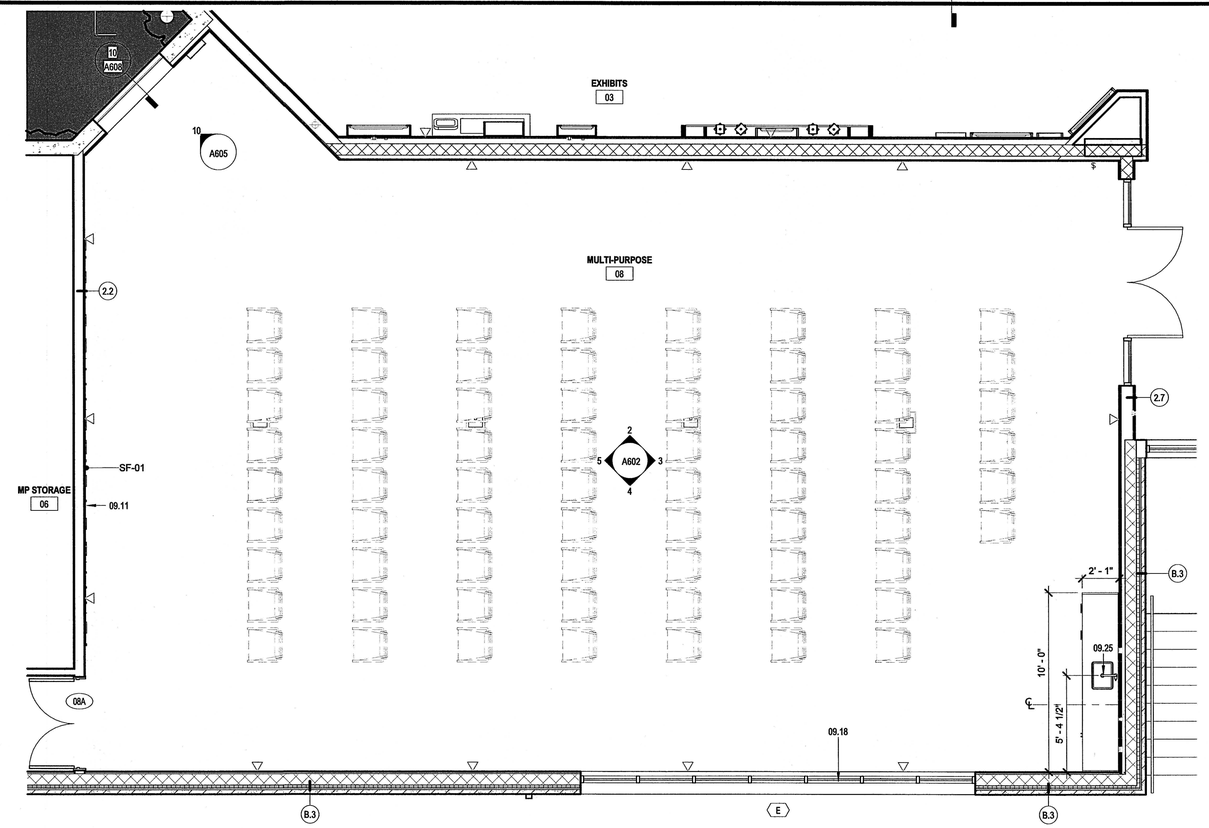
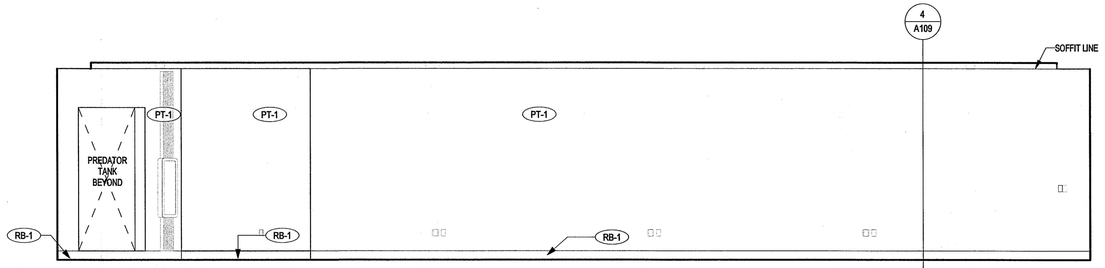
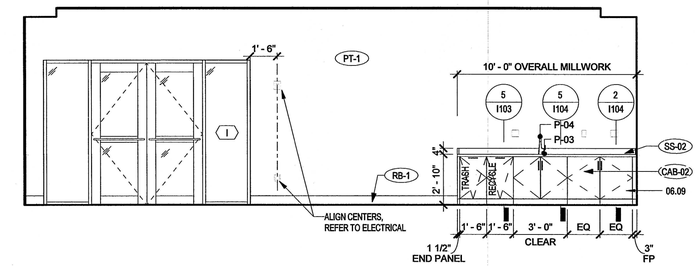


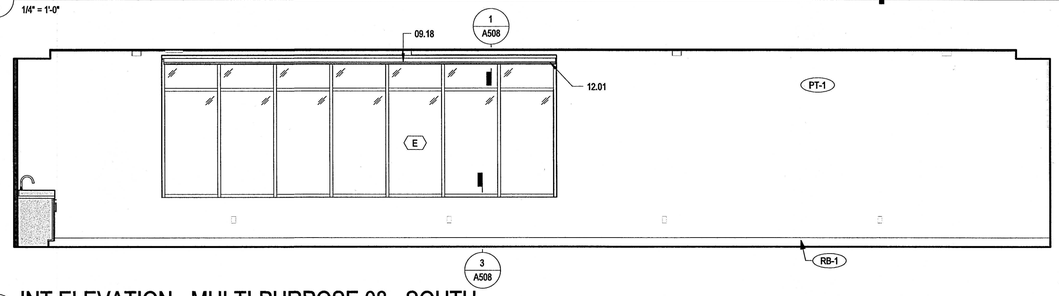
1 ENLARGED PLAN - MULTI-PURPOSE 08
1/4" = 1'-0"



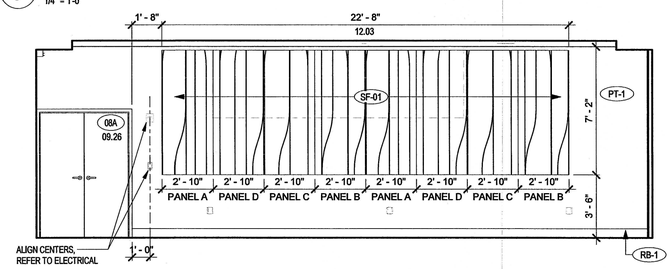
2 INT ELEVATION - MULTI-PURPOSE 08 - NORTH
1/4" = 1'-0"



3 INT ELEVATION - MULTI-PURPOSE 08 - EAST
1/4" = 1'-0"



4 INT ELEVATION - MULTI-PURPOSE 08 - SOUTH
1/4" = 1'-0"



5 INT ELEVATION - MULTI-PURPOSE 08 - WEST
1/4" = 1'-0"

FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
06.09	ARCHITECTURAL WOOD CASEGOODS, SEE I-SHEETS.
09.11	GC TO PROVIDE PLYWOOD BLOCKING BEHIND ALL SPECIALITY EQUIPMENT FOR ADDITIONAL SUPPORT. GC TO REFER TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION METHODS.
09.18	WINDOW TREATMENTS TO BE PROVIDED BY G.C. ROLLER SHADES SPECIFICATION LISTED WITHIN THE FINISH SCHEDULE FOR DETAILS.
09.25	<OPEN>
09.26	DOOR TRIM TO BE PAINTED (PT-09) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
12.01	ROLLER SHADE ENCLOSURE, BOD, MECHO SHADES, DOUBLE BLIND SYSTEM, CEILING JAMB MOUNTED, SEE SPECS.
12.03	ACOUSTIC PANELS, SEE I-SHEETS.

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
Architecture, Engineering, Interior Design, Facility Asset Management

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SCOTT C. MALONEY
AR93161
REGISTERED ARCHITECT
Scott C. Maloney, Director
Expiration Date 02/28/2027
COA #: AA26001059

JOHN PENNEKAMP

Sheet Title: INTERIOR ELEVATIONS - MULTI-PURPOSE

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A602

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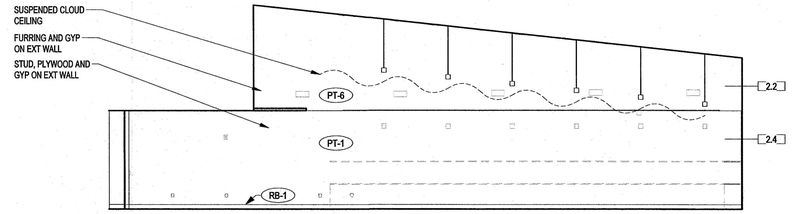
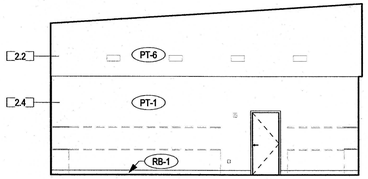
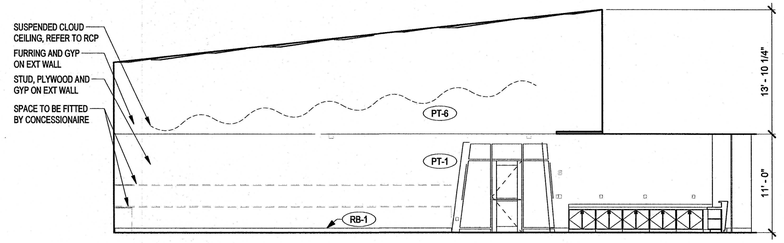


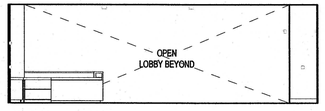
1 INT ELEV CONCESSION NORTH
1/8" = 1'-0"



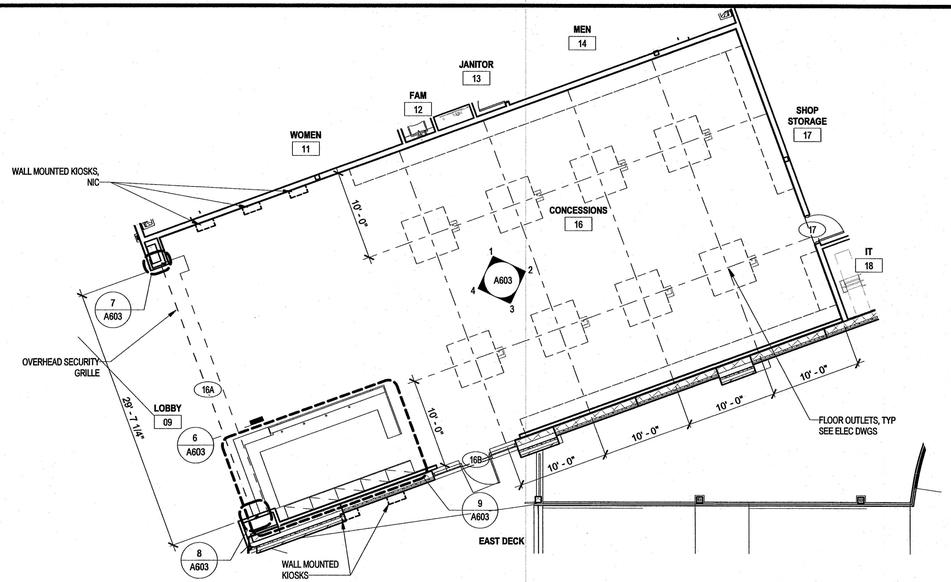
2 INT ELEV CONCESSION EAST
1/8" = 1'-0"



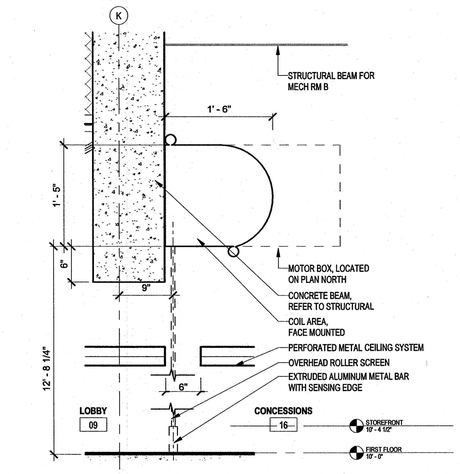
3 INT ELEV CONCESSION SOUTH
1/8" = 1'-0"



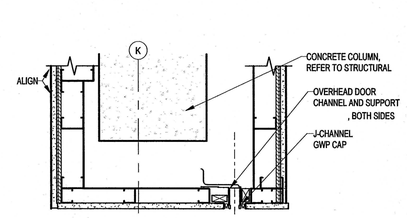
4 INT ELEV CONCESSION WEST
1/8" = 1'-0"



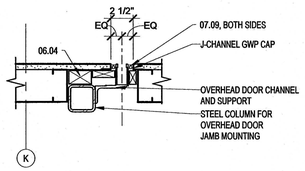
5 PART FIRST FLOOR PLAN - CONCESSIONS
1/8" = 1'-0"



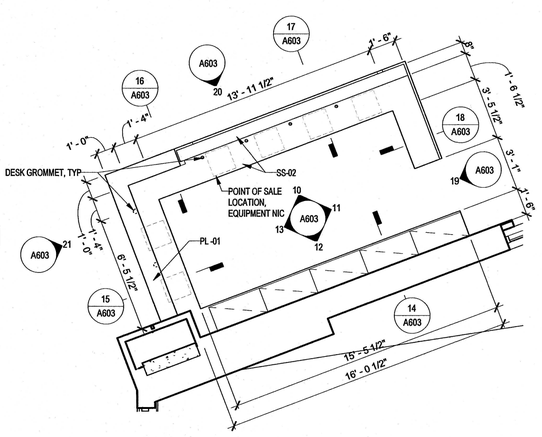
6 SECTION DETAIL - OVERHEAD DOOR
1" = 1'-0"



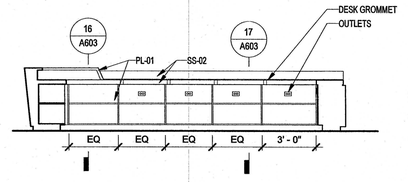
7 PLAN DETAIL - OVERHEAD DOOR - NORTH
1 1/2" = 1'-0"



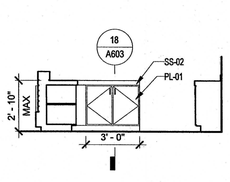
8 PLAN DETAIL - OVERHEAD DOOR - SOUTH
1 1/2" = 1'-0"



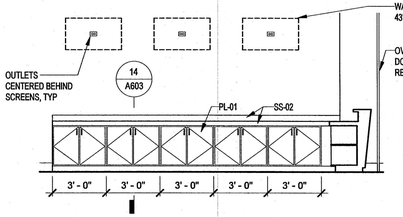
FIRST FLOOR - TRANSACTION COUNTER CALLOUT
1/4" = 1'-0"



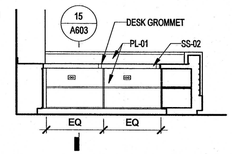
ELEV - INSIDE COUNTER NORTH
1/4" = 1'-0"



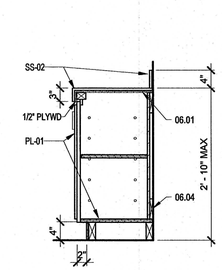
ELEV - INSIDE COUNTER EAST
1/4" = 1'-0"



ELEV - INSIDE COUNTER SOUTH
1/4" = 1'-0"



ELEV - INSIDE COUNTER WEST
1/4" = 1'-0"



RECEPTION DESK DETAIL
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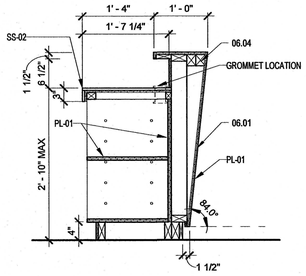

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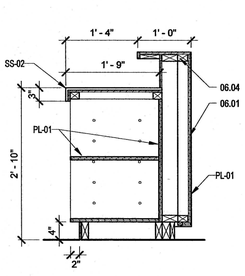

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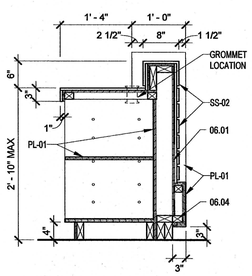

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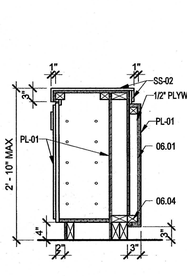

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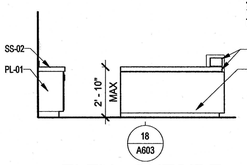
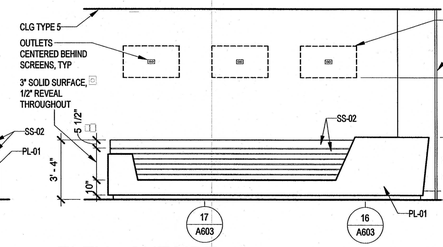
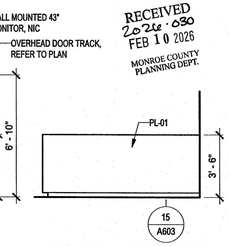
3/4" = 1'-0"



ELEV - OUTSIDE COUNTER WEST
1/4" = 1'-0"



ELEV - OUTSIDE COUNTER SOUTH
1/4" = 1'-0"



ELEV - OUTSIDE COUNTER EAST
1/4" = 1'-0"

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Building Enclosure Consultants
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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

STATE OF FLORIDA
REGISTERED ARCHITECT
AR93186
Scott C. Mahaffey
Expiration Date: 02/28/2027
CA # AA26001059

JOHN PENNEKAMP

Sheet Title: INTERIOR ELEVATIONS - CONCESSIONS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A603

PLOTTED:
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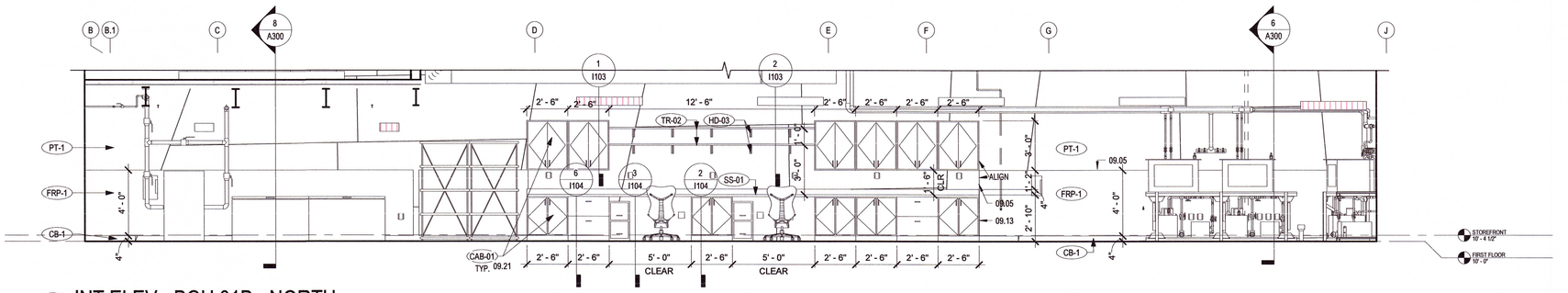
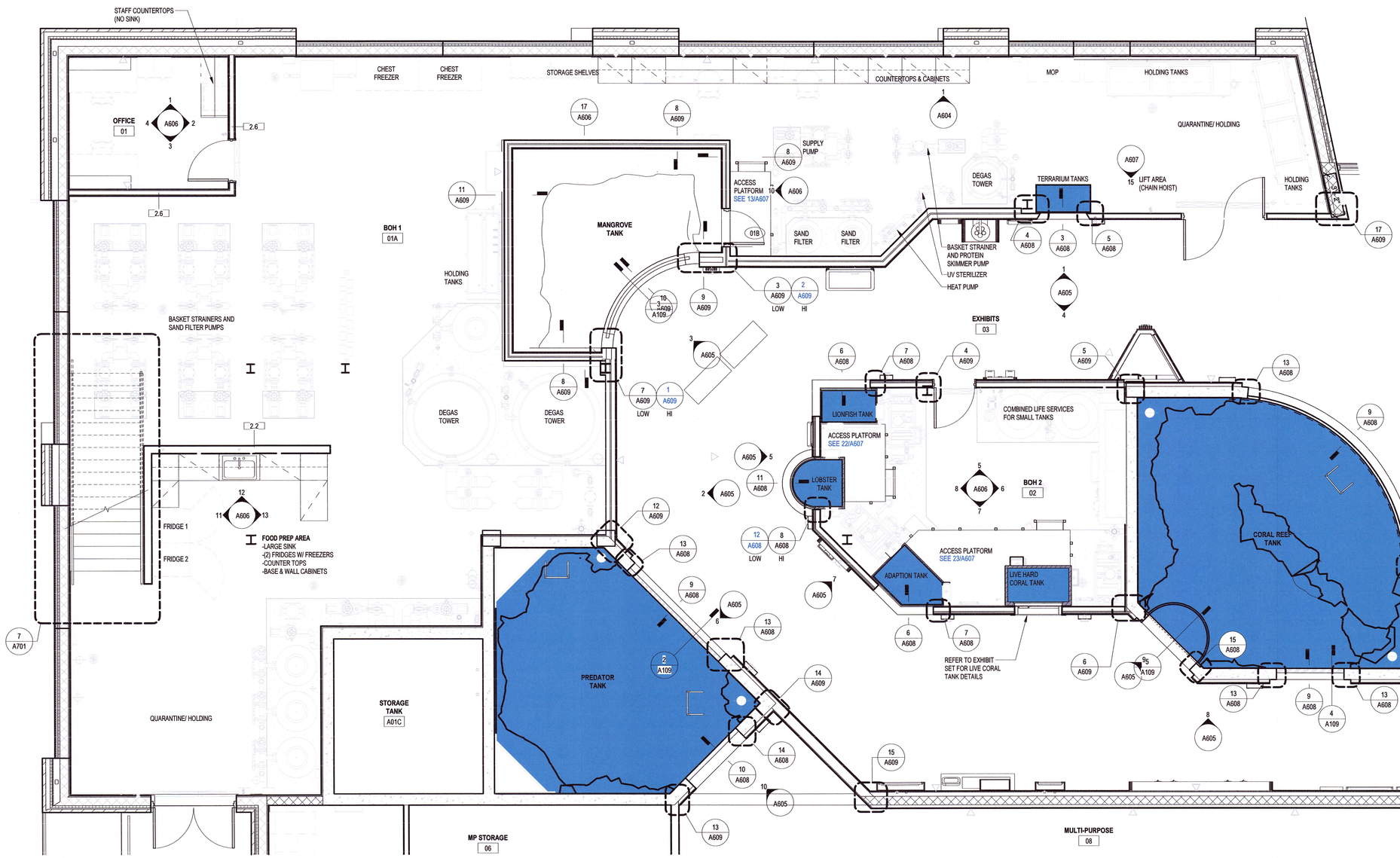
NOTE	DESCRIPTION
09.05	BRUSHED STAINLESS STEEL SCHLUTER STRIP TO BE PROVIDED, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
09.13	FINISHED END PANEL.
09.21	ALL MILLWORK CABINETRY TO INCLUDE LOCKABLE HARDWARE.



1 INT ELEV - BOH 01B - NORTH
1/4" = 1'-0"



2 FIRST FLOOR PLAN - BOH ENLARGED
1/4" = 1'-0"

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GWWO ARCHITECTS
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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN

STATE OF FLORIDA
SCOTT C. MALONEY
REGISTERED ARCHITECT
AR93161

JOHN PENNEKAMP
Sheet Title: INTERIOR ELEVATIONS - BOH AND EXHIBITS
Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A604

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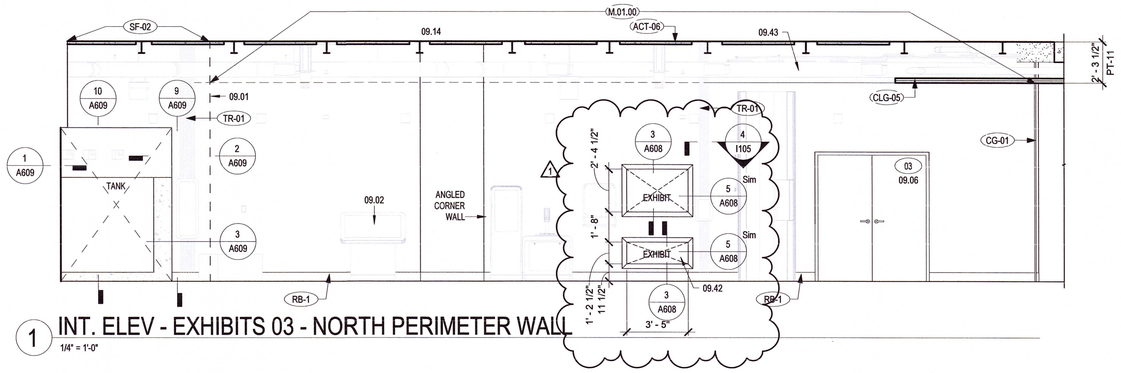
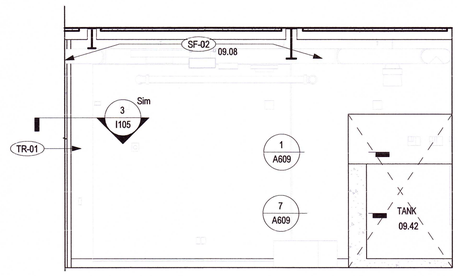
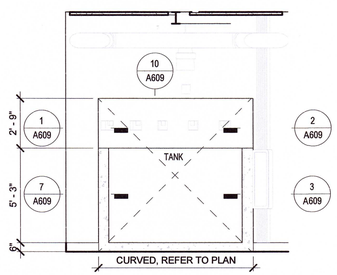


1 INT. ELEV - EXHIBITS 03 - NORTH PERIMETER WALL
1/4" = 1'-0"

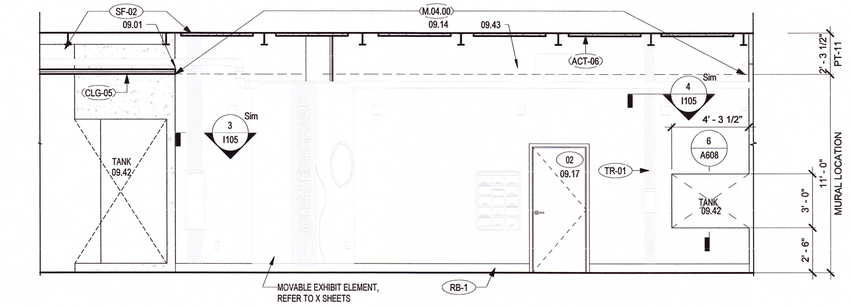


2 INT. ELEV - EXHIBITS 03 - WEST PERIMETER WALL
1/4" = 1'-0"

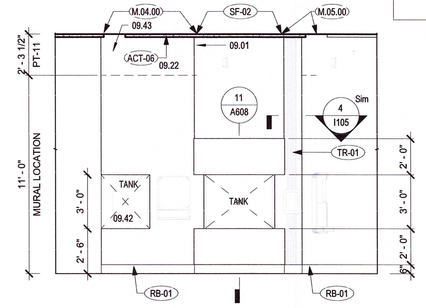
FDEP JOHN PENNEKAMP S.P. KEY NOTE LEGEND	
Key Value	Keynote Text
09.01	DIGITAL VINYL MURAL GRAPHICS PROVIDED BY ROTO TO TERMINATE INTO CONCRETE WALL MATERIAL WITH A FINISHED EDGE. MURAL GRAPHIC DETAILS TO BE COORDINATED WITH ROTO, ARCHITECT AND DESIGNER PRIOR TO PURCHASING.
09.02	REFER TO ELECTRICAL PLANS FOR POWER COORDINATION FOR INTERACTIVE EXHIBITS.
09.06	DOOR TRIM TO BE PAINTED (PT-07) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
09.08	EXPOSED CONCRETE COLUMNS AND CONCRETE WALLS TO BE SANDED & SEALED FOR A SMOOTH SURFACE APPLICATION.
09.10	ALL OUTLETS TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
09.14	CUSTOM GRAPHICS TO BE COORDINATED WITH THIRD-PARTY VENDORS. GC TO PROVIDE FRT BLOCKING FOR ADDITIONAL SUPPORT AND PROPER WALL PREPARATION FOR PROPER INSTALLATION METHODS. COORDINATION WITH GC, OWNER, DESIGNER AND ROTO ON PRODUCTION OF GRAPHIC MURALS. OVERALL WALL PAINT TO BE APPLIED AND GRAPHICS TO BE APPLIED OVER PAINTED SURFACE. REFER TO GRAPHICS VENDOR FOR PREPARATION OF WALL AND INSTALLATION RECOMMENDATIONS.
09.17	DOOR TRIM TO BE PAINTED (PT-08) WITH DOOR STAINED TO MATCH (ST-1), REFER TO DOOR SCHEDULE FOR STAINLESS STEEL HARDWARE ACCESSORIES AND DETAILS.
09.22	REFER TO M.E.P. CONSTRUCTION DOCUMENTATION FOR PLUMBING AND ELECTRICAL COORDINATION. REFER TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION. IF NECESSARY, PROVIDE WATERLINE.
09.42	REFER TO AQUARIUM DESIGN DRAWINGS FOR DETAILS.
09.43	EXHIBIT SPACE - ALL M.E.P. TO BE PAINTED (PT-10), ALL INTERIORS WALLS ABOVE MURALS TO BE PAINTED (PT-11) AT THE 11'-0" AFF. ALL CEILINGS TO BE PAINTED (PT-10) WITH (ACT-06) TECTUM PANEL SYSTEM FOR ACOUSTICAL SOUND ABSORBTION.



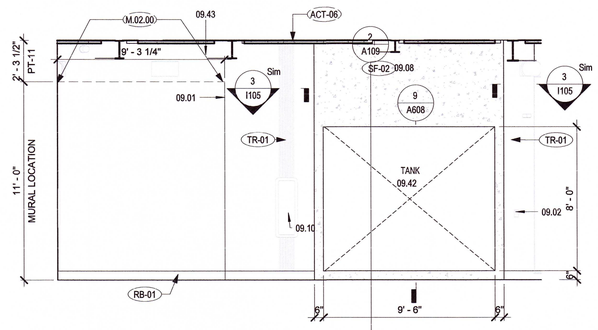
3 INT ELEV - EXHIBITS 03 - NORTH WEST MANGROVE
1/4" = 1'-0"



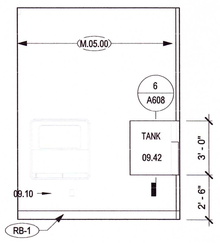
4 INT. ELEV - EXHIBITS 03 - NORTH ISLAND WALL
1/4" = 1'-0"



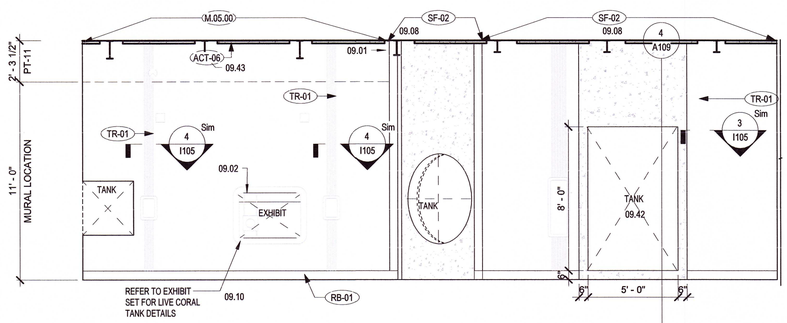
5 INT. ELEV - EXHIBITS 03 - WEST ISLAND WALL
1/4" = 1'-0"



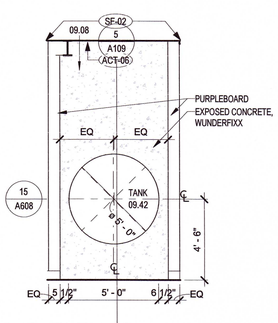
6 INT. ELEV - EXHIBITS 03 - PREDETOR TANK SE
1/4" = 1'-0"



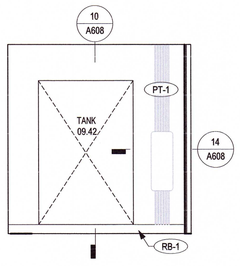
7 INT. ELEV - EXHIBITS 03 - ADAPT TANK NORTH EAST
1/4" = 1'-0"



8 INT. ELEV - EXHIBITS 03 - SOUTH ISLAND WALL
1/4" = 1'-0"



9 INT. ELEV - EXHIBITS 03 - CORAL TANK NORTH EAST
1/4" = 1'-0"



10 INT. ELEV - MP 08 - TANK OPENING
1/4" = 1'-0"

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
Architecture, Engineering, Interior Design, Planning, Facility Asset Management

STATE OF FLORIDA
SCOTT C. MALONE
REGISTERED ARCHITECT
AR93185
Scott C. Malone, Registered Architect, AR93185
Date: 12/12/2025
COA: #: AA26001059

JOHN PENNEKAMP

Sheet Title: INTERIOR ELEVATIONS - EXHIBITS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A605

PLOTTED:
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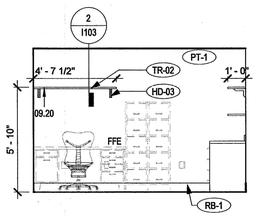
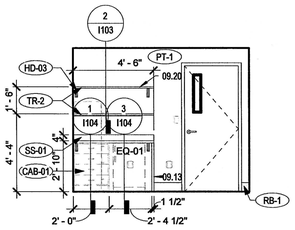
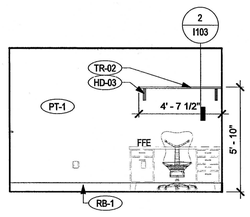
NOTE	DESCRIPTION
09.02	REFER TO ELECTRICAL PLANS FOR POWER COORDINATION FOR INTERACTIVE EXHIBITS.
09.13	FINISHED END PANEL.
09.20	GC TO PROVIDE FRT PLYWOOD BLOCKING BEHIND ALL WALL MOUNTED SHELVING UNIT.
09.22	REFER TO M.E.P. CONSTRUCTION DOCUMENTATION FOR PLUMBING AND ELECTRICAL COORDINATION. REFER TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION. IF NECESSARY, PROVIDE WATERLINE.
09.24	B.O.H. PLUMBING FIXTURES AT CASEWORK INCLUDED:(S-01) DROP IN SINK & (P-02) FAUCET.
10.05	LOCKER ROOM BENCH, SEE EQUIPMENT INFO. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER FLOOR BOLTING INSTALLATION METHOD FOR LOCKER ROOM BENCH.



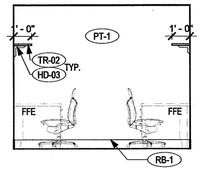
1 INT ELEV - OFFICE 01 NORTH
1/4" = 1'-0"



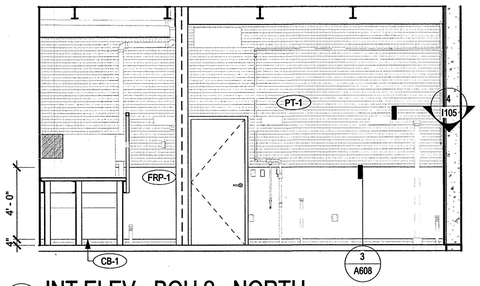
2 INT ELEV - OFFICE 01 EAST
1/4" = 1'-0"



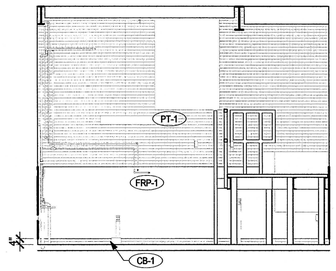
3 INT ELEV - OFFICE 01 SOUTH
1/4" = 1'-0"



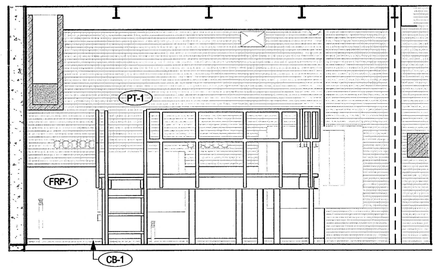
4 INT ELEV - OFFICE 01 WEST
1/4" = 1'-0"



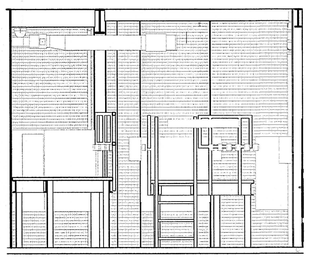
5 INT ELEV - BOH 2 - NORTH



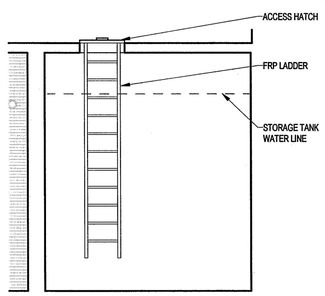
6 INT ELEV - BOH 2 - EAST



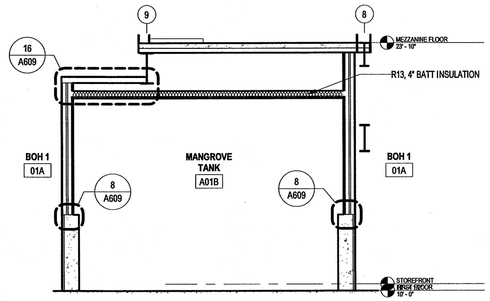
7 INT ELEV - BOH 2 - SOUTH



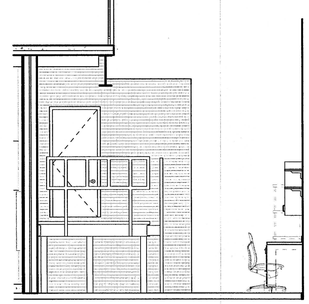
8 INT ELEV - BOH 2 - WEST



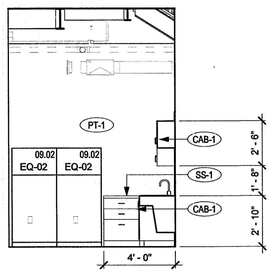
9 INT ELEV - STORAGE TANK
1/4" = 1'-0"



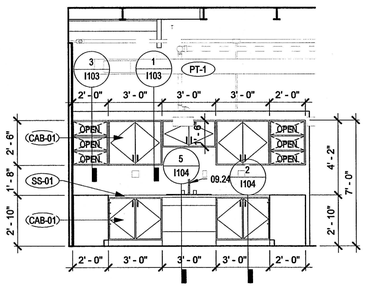
17 DETAIL SECTION - MANGROVE TANK
1/4" = 1'-0"



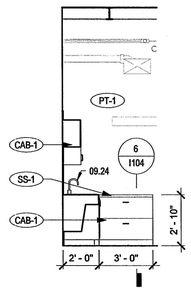
10 INT ELEV - BOH 1B
- MANGROVE SIDE - EAST



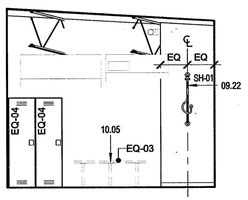
11 INT ELEV - BOH 1A
KITCHENETTE - WEST
1/4" = 1'-0"



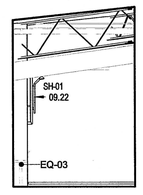
12 INT ELEV - BOH 1A
KITCHENETTE - NORTH
1/4" = 1'-0"



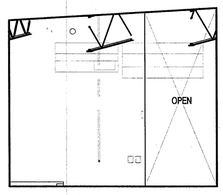
13 INT ELEV - BOH 1A
KITCHENETTE - EAST
1/4" = 1'-0"



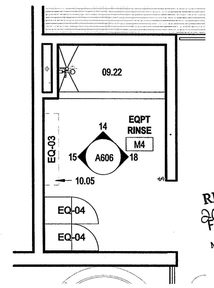
15 INT ELEV -
EQPT RINSE M4 WEST
1/4" = 1'-0"



14 INT ELEV -
EQPT RINSE M4 NORTH
1/4" = 1'-0"



18 INT ELEV -
EQPT RINSE M4 EAST
1/4" = 1'-0"



16 MEZZANINE PLAN -
EQPT RINSE M4 ENLARGED
1/4" = 1'-0"

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PLANNING DEPT.

GW K2M WO ASSOCIATES, INC
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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
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DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
Key Largo, Florida
Key West, Florida
Marathon, Florida
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SCOTT C. MALONEY
LICENSED
ARCHITECT
AR93161
Scott C. Maloney, License # AR93161
Date: 12/12/2025
CAA # AA26001099

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (305)245-2157

JOHN PENNEKAMP

Sheet Title: INTERIOR ELEVATIONS - BOH

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A606

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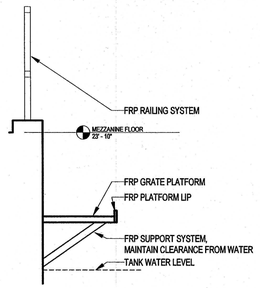
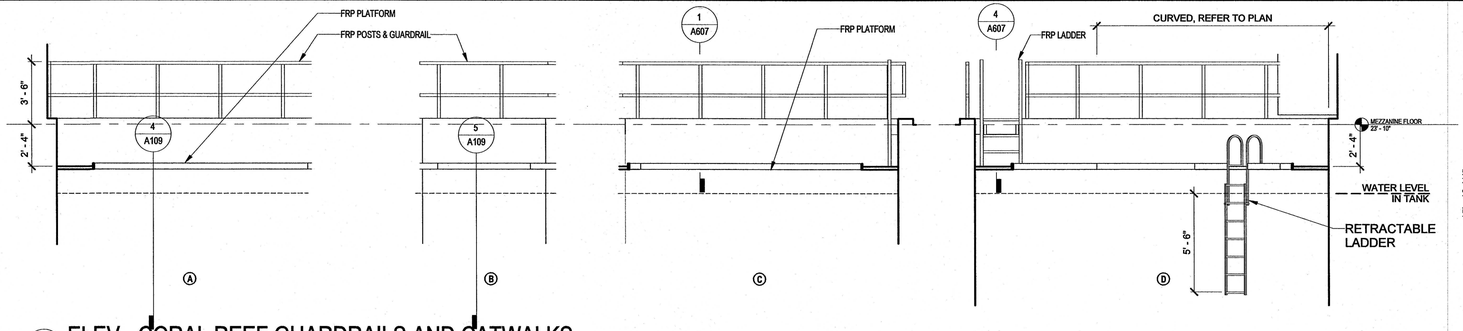
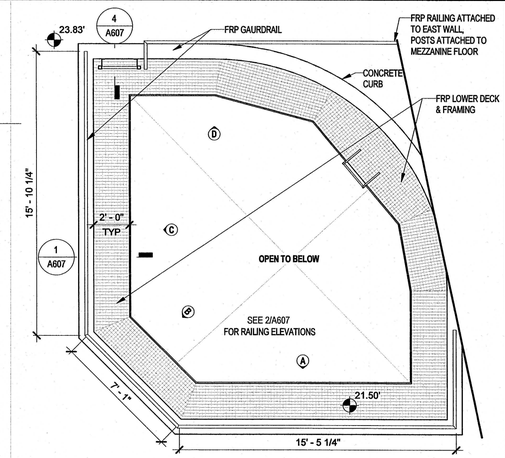


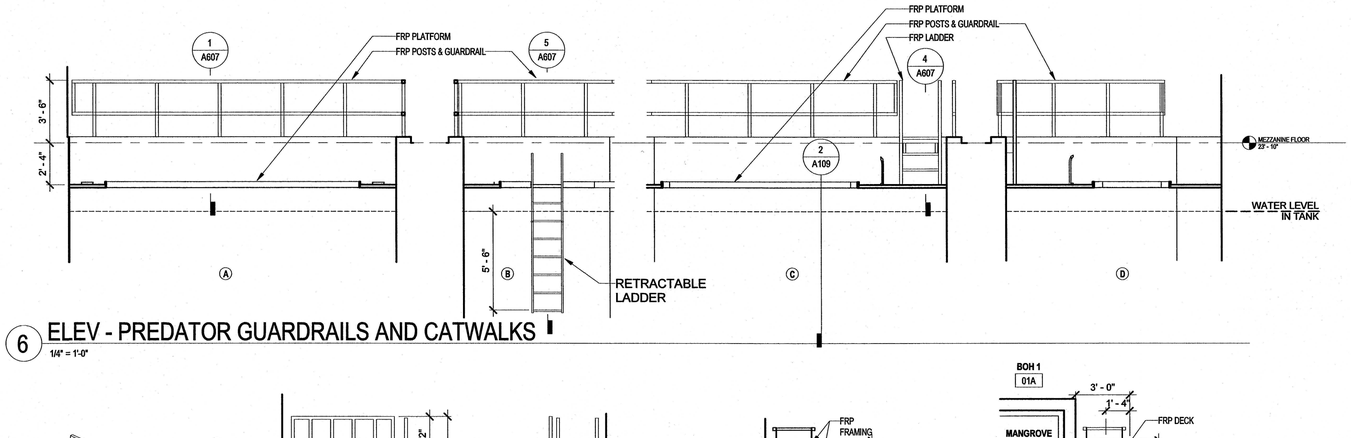
1 SECTION - TANK PLATFORM
1/2" = 1'-0"



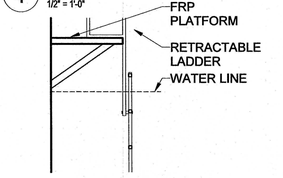
2 ELEV - CORAL REEF GUARDRAILS AND CATWALKS
1/4" = 1'-0"



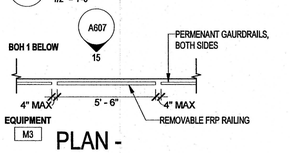
3 PARTIAL MEZZANINE PLAN - CORAL REEF TANK
1/4" = 1'-0"



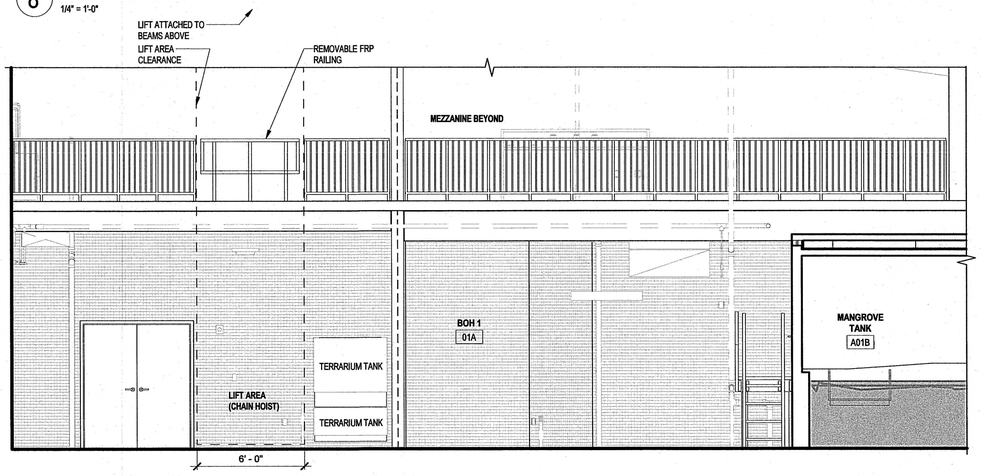
6 ELEV - PREDATOR GUARDRAILS AND CATWALKS
1/4" = 1'-0"



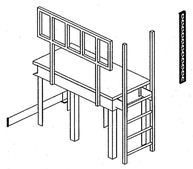
4 SECTION - TANK ACCESS LADDER
1/2" = 1'-0"



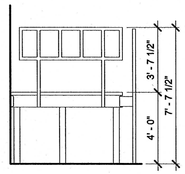
8 PLAN - MEZZANINE RAILING
1/4" = 1'-0"



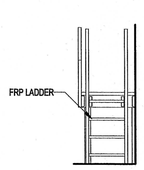
15 INT ELEV - MEZZANINE RAILING
1/4" = 1'-0"



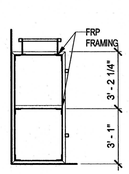
9 AXON - ACCESS PLATFORM 01



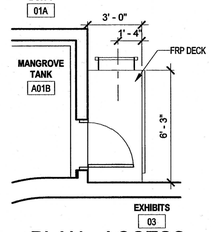
10 ELEV - ACCESS PLATFORM 01
1/4" = 1'-0"



11 ELEV - ACCESS PLATFORM 01
1/4" = 1'-0"



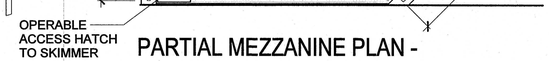
12 PLAN - ACCESS PLATFORM 01 - FRAMING
1/4" = 1'-0"



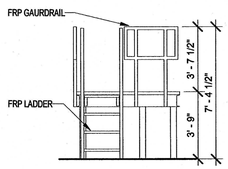
13 PLAN - ACCESS PLATFORM 01
1/4" = 1'-0"



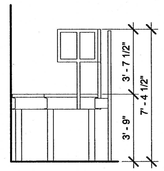
14 AXON - ACCESS PLATFORM 02



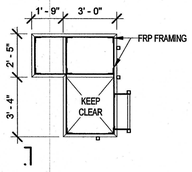
7 PARTIAL MEZZANINE PLAN - PREDATOR TANK
1/4" = 1'-0"



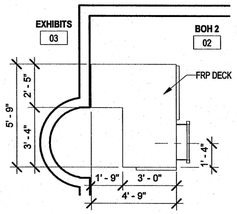
16 ELEVATION - ACCESS PLATFORM 02
1/4" = 1'-0"



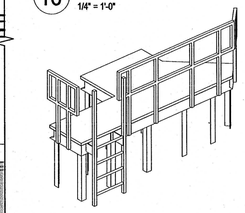
18 ELEVATION - ACCESS PLATFORM 02
1/4" = 1'-0"



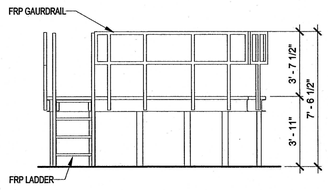
20 PLAN - ACCESS PLATFORM 02 - FRAMING
1/4" = 1'-0"



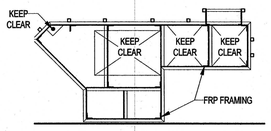
22 PLAN - ACCESS PLATFORM 02
1/4" = 1'-0"



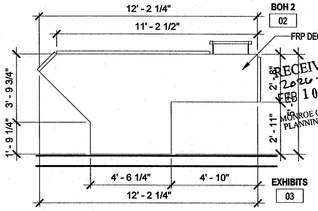
17 AXON - ACCESS PLATFORM 03



19 ELEV - ACCESS PLATFORM 03
1/4" = 1'-0"



21 PLAN - ACCESS PLATFORM 03 - FRAMING
1/4" = 1'-0"



23 PLAN - ACCESS PLATFORM 03
1/4" = 1'-0"

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK

Consultant: K2M DESIGN
Key Largo, Florida
Key West, Florida
Marathon, Florida
www.k2mdesign.com
PROF. REG. AA0001069
Building Relationships
Planning | Landscape Architecture | Engineering | Surveying | Key West | Marathon | Charlotte | Jacksonville
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JOHN PENNEKAMP
Sheet Title: INTERIOR ELEVATIONS - MEZZANINE
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A607

PLOTTED:
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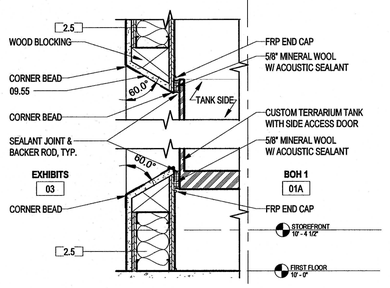
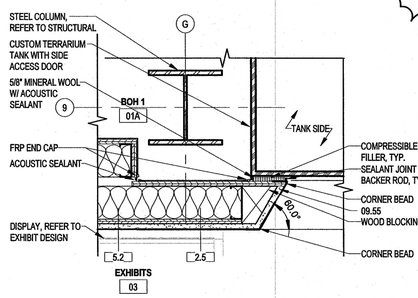
12/12/2025 1:12:05 PM
Autodesk Docs://23016 - FDEP Pennekamp/23016_FDEP Pennekamp_ARCH_K2M_R24.rvt

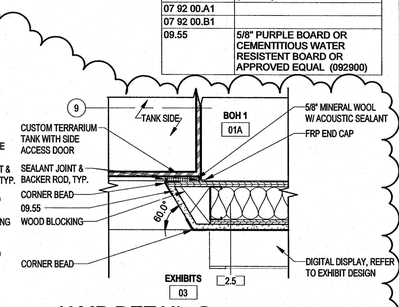
NOTE	DESCRIPTION
06.01	1/2" PT PLYWOOD SHEATHING (061600)
07 92 00.A1	
07 92 00.B1	
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)



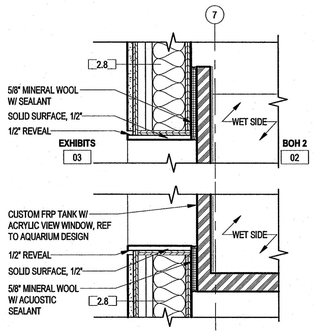
3 HEAD & SILL DETAIL @ TERRARIUM TANK
1 1/2" = 1'-0"



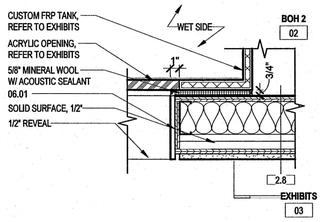
4 JAMB DETAIL @ TERRARIUM TANK, WEST
1 1/2" = 1'-0"



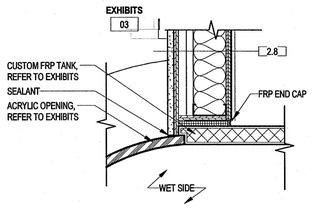
5 JAMB DETAIL @ TERRARIUM TANK, EAST
1 1/2" = 1'-0"



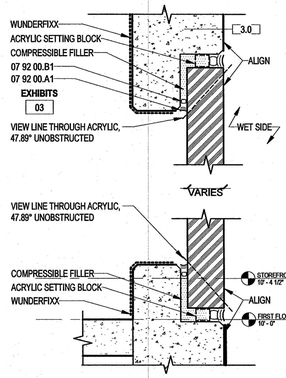
6 HEAD & SILL DETAIL @ BOH 2 TANK, TYP
1 1/2" = 1'-0"



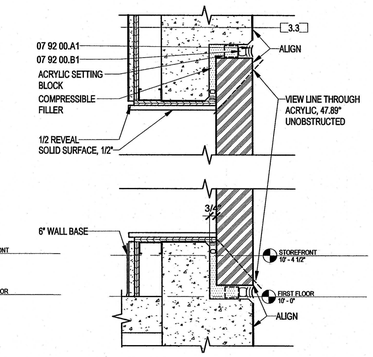
7 JAMB DETAIL @ BOH 2 TANK, TYP
1 1/2" = 1'-0"



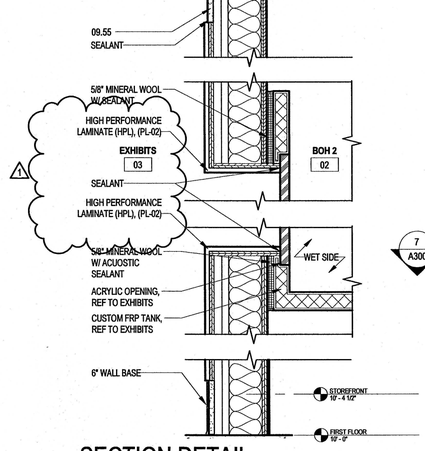
8 PLAN DETAIL AT ROUND TANK
1 1/2" = 1'-0"



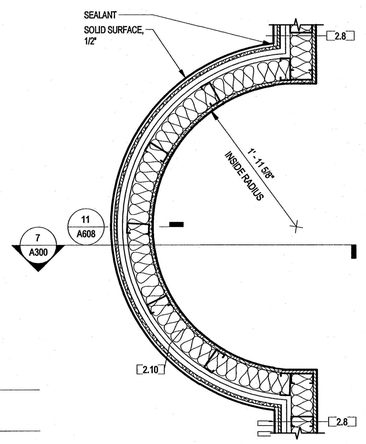
9 HEAD & SILL DETAIL @ LARGE TANK, TYP
1 1/2" = 1'-0"



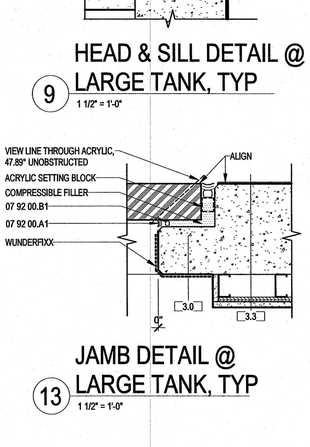
10 HEAD & SILL DETAIL @ PREDATOR TANK, MP
1 1/2" = 1'-0"



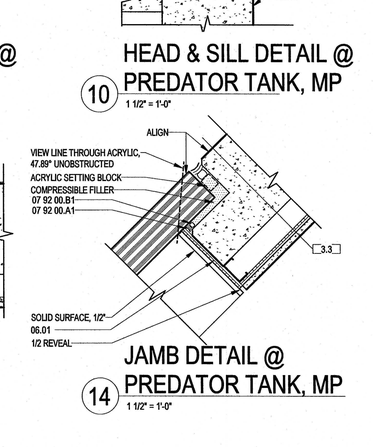
11 SECTION DETAIL LOBSTER TANK
1 1/2" = 1'-0"



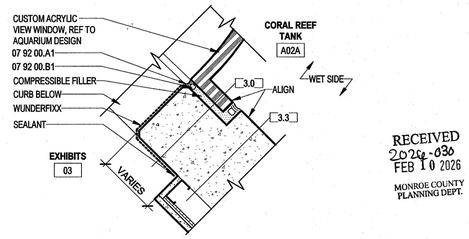
12 PLAN DETAIL LOBSTER TANK
1" = 1'-0"



13 JAMB DETAIL @ LARGE TANK, TYP
1 1/2" = 1'-0"



14 JAMB DETAIL @ PREDATOR TANK, MP
1 1/2" = 1'-0"



15 RADIAL DETAIL @ CORAL REEF TANK
1 1/2" = 1'-0"

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3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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www.k2mdesign.com
PROF. REG. #AA26001059
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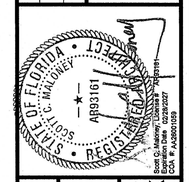
Glavovic | Cordoba | Mahoney | Bertolotti

SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant:



JOHN PENNEKAMP

Sheet Title: INTERIOR DETAILS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A608

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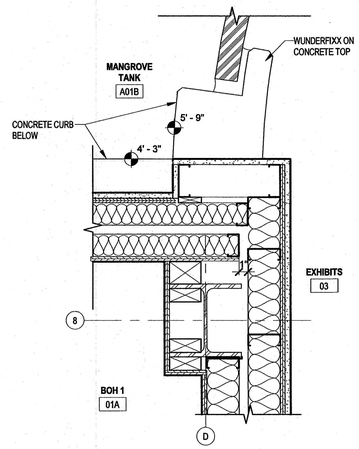
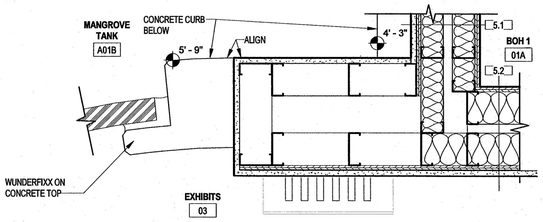


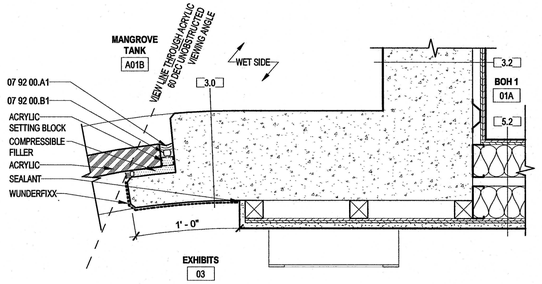
PLAN DETAIL @ MANGROVE SOUTH ABOVE CONCRETE

1 1 1/2" = 1'-0"



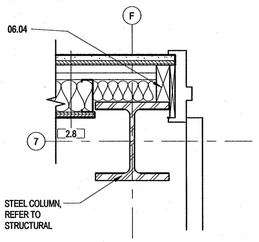
PLAN DETAIL @ MANGROVE EAST ABOVE CONCRETE

2 1 1/2" = 1'-0"



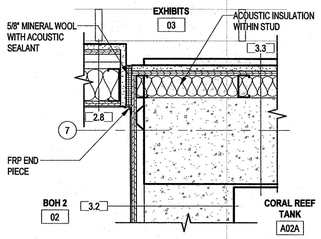
PLAN DETAIL @ MANGROVE EAST BENEATH CONCRETE

3 1 1/2" = 1'-0"



PLAN DETAIL @ BOH 2 ENTRANCE

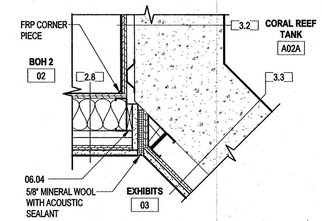
4 1 1/2" = 1'-0"



PLAN DETAIL @ BOH 2 NORTHEAST

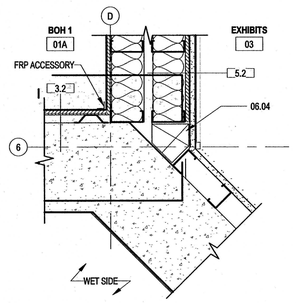
5 1 1/2" = 1'-0"

NOTE	DESCRIPTION
05.09	COLD-FORMED STEEL FRAMING TRACK
06.01	1/2" PT PLYWOOD SHEATHING (061600)
06.04	WOOD BLOCKING AS REQUIRED
06.10	3/4" FRT EXTERIOR PLYWOOD SHEATHING (061600)
07 92 00.A1	
07 92 00.B1	
09.41	FRP PANEL, SEE FINISH SCHEDULE
09.55	5/8" PURPLE BOARD OR CEMENTITIOUS WATER RESISTENT BOARD OR APPROVED EQUAL (092900)



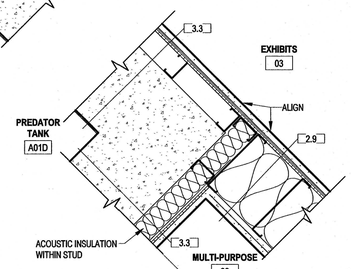
PLAN DETAIL @ BOH 2 SOUTHEAST

6 1 1/2" = 1'-0"



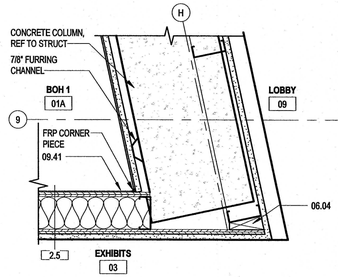
PLAN DETAIL

12 1 1/2" = 1'-0"



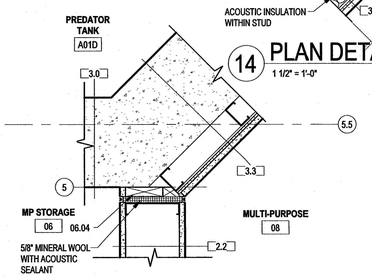
PLAN DETAIL

14 1 1/2" = 1'-0"



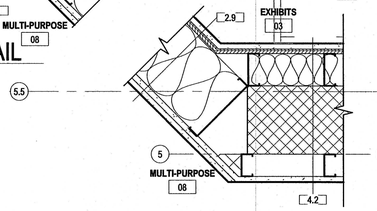
PLAN DETAIL

17 1 1/2" = 1'-0"



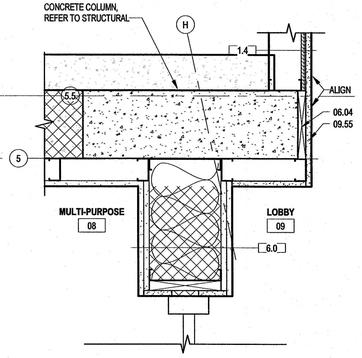
PLAN DETAIL

13 1 1/2" = 1'-0"



PLAN DETAIL

15 1 1/2" = 1'-0"



PLAN DETAIL - SOUTH EXHBIIT COLUMN WRAP

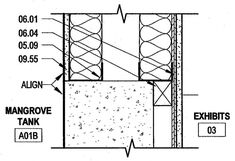
18 1 1/2" = 1'-0"

PLAN DETAIL @ MANGROVE SOUTH BENEATH CONCRETE

7 1 1/2" = 1'-0"

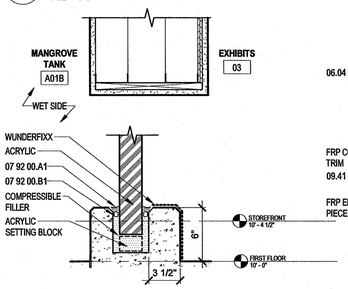
DETAIL SECTION - MANGROVE BOH SIDE

8 1 1/2" = 1'-0"



DETAIL SECTION - MANGROVE EXHIBIT SIDE

9 1 1/2" = 1'-0"

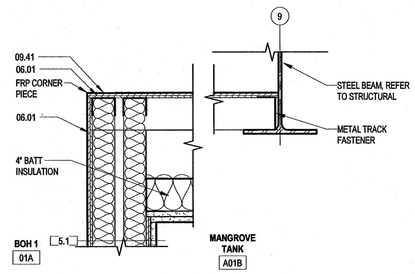


HEAD & SILL DETAIL @ MANGROVE ACRYLIC

10 1 1/2" = 1'-0"

DETAIL SECTION - MANGROVE WEST SIDE

11 1 1/2" = 1'-0"



DETAIL SECTION - MANGROVE NORTH SIDE - UPPER

16 1 1/2" = 1'-0"

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SYMBOL	REVISION	DATE

Department of Environmental Protection
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DESIGNER: GWWO / K2M
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COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

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JOHN PENNEKAMP
Sheet Title: INTERIOR DETAILS
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A609

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FINISH SCHEDULE LEGEND (ID)

ID #	DESCRIPTION	MANUFACTURER	MODEL/ STYLE #	COLOR	FINISH/ SIZE	INSTALLATION	COMMENTS
ADDITIONAL FLOOR							
CONC-01	BURNISHED, POLISHED & SEALED CONCRETE	EUCLID CHEMICAL	EUCO DIAMOND HARD LIQUID DENSIFIER AND SEALER	CLEAR	CLEAR		PREP & POLISHED SMOOTH FOR A FINISH CLEAN INSTALLATION. POLISH WITH A LIGHT BURNISHED ROUTE FOR A LIGHT GRIND WITH MINIMAL AGGREGATE REVEALED
CONC-02	CONCRETE ADMIXTURE COLOR - LIGHT COLOR	EUCLID CHEMICAL	INCRETE COLOR CRETE; LOW VOC	SAND BUFF	CC725/2		INTEGRAL COLOR TREATMENT; POLISHED FINISH APPLIED ON TOP SURFACE.
CONC-03	CONCRETE ADMIXTURE COLOR - DARK COLOR	EUCLID CHEMICAL	INCRETE COLOR CRETE; LOW VOC	SILVER GRAY	CC770/1		INTEGRAL COLOR TREATMENT; POLISHED FINISH APPLIED ON TOP SURFACE.
CARPET & RESILIENT FLOORING							
CPT-01	WALK OFF CARPET AT ENTRY AREAS	AMERICAN FLOOR MATS	ULTRA ENTRY RECESSED ROLL MATTING	RAIL COLOR - GREY; CARPET COLOR:CHARCOAL SPLASH	REFER TO FINISH FLOOR PLANS		FLOOR SUPPRESSED RECESSED FLOORING MATERIAL. REFER TO MANUFACTURER FOR RECOMMENDATIONS
RF-01	LUXURY VINYL TILE	INTERFACE COMMERICAL	NATIVE FABRIC 3.0 (C015)	TWINE	CERAMORE; 20" X 20"	ASHLAR	HIGH PERFORMANCE LUXURY VINYL TILE; CLASS III PRINTED VINYL TILE; 22MIL; 3.0MM TOTAL THICKNESS
TILE							
TL-01	TERRAZZO LOOK FLOOR TILE	DALTILE	COLORBODY PORCELAIN TILE W/ STEP WISE TECH.	OUTLANDER	MARINE RECTANGLE GRANDE; 24" X 48"; MATTE (OU55)	STACKED	EPOXY GROUT COLOR: LATICRETE RAVEN #45
TL-02	WALL TILE @ RESTROOMS	NEMO	GLOW COLLECTION	SNOW COLLECTION	(38% MATTE, 38% GLOSS, 24% HOLOGRAPHIC) - MIXED BOX COLLECTION; 2" X 10"; 8MM THICKNESS; GROUT COLOR TO BE DETEREMINED DURING CA PHASE; EPOXY GROUT TO BE APPLIED	VERTICALLY STACKED	TECHNOLOGY APPLIED TO TILE: WHITE BODY SINGLE FIRED WALL TILE; TOP OF TILE TO BE FINISHED WITH THIN PROFILE SCHULTER STRIP IN STAINLESS STEEL FINISH.
TL-03	WALL TILE @ WATER FOUNTAIN WALL	NEMO	GLOW COLLECTION	RAIN COLLECTION	(38% MATTE, 38% GLOSS, 24% HOLOGRAPHIC) - MIXED BOX COLLECTION; 2" X 10"; 8MM THICKNESS; GROUT COLOR TO BE DETEREMINED DURING CA PHASE; EPOXY GROUT TO BE APPLIED	VERTICALLY STACKED	TECHNOLOGY APPLIED TO TILE: WHITE BODY SINGLE FIRED WALL TILE; TOP OF TILE TO BE FINISHED WITH THIN PROFILE SCHULTER STRIP IN STAINLESS STEEL FINISH.
BASE							
CB-01	INTEGRAL SEALED CONCRETE BASE	EUCLID CHEMICAL	COORDINATE WITH CONC-1	CLEAR	REFER TO ELEVATIONS FOR DIMENSIONS		MUST BE ADA COMPLIANT WITH FINISHED EDGE
RB-01	RUBBER COVE BASE	TARKETT - JOHNSONITE	TRADITIONAL 4" TOELESS	BURNT UMBER	TIGHTLOCK TECHNOLOGY		MUST BE ADA COMPLIANT WITH FINISHED EDGE
HIGH PERFORMANCE MATERIALS							
FRP-01	RIGID SHEET WALL PROTECTION PANEL	INPRO CORP	PALLADIUM RIGID SHEET	GRAYSTONE 0151	4'-0" HEIGHT; 0.4" (1MM)		FINISHED TOP EDGE AND SEAMS WITH INPRO RIGID SHEET TRIM IN GRAYSTONE 0151
SF-01	SPECIALITY ACOUSTICAL FELT WALL PANELS	FILZFELT	PANEL: RAIN (STYLES A-D)	WOLLWEI (100)	100% WOOL DESIGN FELT + AKUSTIKA 10 SUBSTRATE; REFER TO MANUFACTURER FOR INSTALLATIONS. SEE ELEVATIONS FOR DIMENSIONS.	MINIMUM NRC 0.75 FOR ACOUSTICAL ABSORPTION	INCLUDE INTERLOCK MOUNTING SYSTEM:ASTM C 423: NRC - 0.75, SAA - 0.75
SF-02	POLISHED & SEALED CONCRETE WALLS	EUCLID CHEMICAL	EUCO DIAMOND HARD LIQUID DENSIFIER AND SEALER	CLEAR	CLEAR		PREP & POLISHED SMOOTH FOR A FINISH CLEAN INSTALLATION. POLISH WITH A LIGHT BURNISHED ROUTE FOR A LIGHT GRIND WITH MINIMAL AGGREGATE REVEALED
MISC							
CG-01	CORNER GUARDS	B.O.D. - ULINE	H-11396	CLEAR	CLEAR CORNER GUARDS		
PAINT & STAIN							
PT-01	OVERALL WALL PAINT COLOR	SHERWIN WILLIAMS	SW9541	WHITE SNOW	EGGSHELL		EPOXY PAINT TO BE USED IN WET APPLICATIONS/ LOCATIONS
PT-02	ACCENT WALL PAINT COLOR	SHERWIN WILLIAMS	SW6878	ANIMATED CORAL	EGGSHELL		EPOXY PAINT TO BE USED IN WET APPLICATIONS/ LOCATIONS
PT-03	ACCENT WALL PAINT COLOR	SHERWIN WILLIAMS	SW0020	PEACOCK PLUME	EGGSHELL		EPOXY PAINT TO BE USED IN WET APPLICATIONS/ LOCATIONS
PT-04	OVERALL PAINTED GYPSUM CEILING	SHERWIN WILLIAMS	SW9541	WHITE SNOW	FLAT		EPOXY PAINT TO BE USED IN WET APPLICATIONS/ LOCATIONS
PT-05	ACCENT PAINTED GYPSUM CEILING	SHERWIN WILLIAMS	SW9177	SALTY DOG	FLAT	CONCESSIONS SPACE ONLY*	
PT-06	ACCENT WALL PAINT COLOR	SHERWIN WILLIAMS	SW9177	SALTY DOG	EGGSHELL	CONCESSIONS SPACE ONLY*	
PT-07	ACCENT TRIM PAINT COLOR - TEAL	SHERWIN WILLIAMS	SW0020	PEACOCK PLUME	SEMI-GLOSS		
PT-08	ACCENT TRIM PAINT COLOR - CORAL PINK	SHERWIN WILLIAMS	SW6878	ANIMATED CORAL	SEMI-GLOSS		
PT-09	OVERALL DOOR TRIM PAINT COLOR	SHERWIN WILLIAMS	SW9541	WHITE SNOW	SEMI-GLOSS		EPOXY PAINT TO BE USED IN WET APPLICATIONS/ LOCATIONS
PT-10	ACCENT PAINTED GYPSUM CEILING	SHERWIN WILLIAMS	SW6258	TRICORN BLACK	FLAT		
PT-11	ACCENT WALL PAINT COLOR	SHERWIN WILLIAMS	SW6258	TRICORN BLACK	EGGSHELL		
ST-01	WOODEN STAIN COLOR AT DOORS	STAINED GRADE DOOR TO MATCH	FORMICA; 5785-NG; ASHWOOD BEIGE	MATCH PL-1			
WALLCOVERING							
M.00.00	SPECIALITY WALL GRAPHIC - DONOR WALL	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		APPLIED ON TO PAINTED GYP. BOARD. REFER TO MANUFACTURER'S RECOMMENDATION ON INSTALLATION PREPARATION AND SEALANT.
M.01.00	SPECIALITY WALL GRAPHIC - ROCKLAND HAMMOCK OVERVIEW	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		APPLIED ON TO PAINTED GYP. BOARD. REFER TO MANUFACTURER'S RECOMMENDATION ON INSTALLATION PREPARATION AND SEALANT.
M.02.00	SPECIALITY WALL GRAPHIC - SEAGRASS	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		
M.03.00a	SPECIALITY WALL GRAPHIC - PREDATOR & CORAL	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		
M.03.00b	SPECIALITY WALL GRAPHIC - PREDATOR & CORAL	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		
M.04.00	SPECIALITY WALL GRAPHIC - ENTRY & INVASIVE	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		
M.05.00	SPECIALITY WALL GRAPHIC - LOBSTER & ADAPTATION	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		
M.06.00	SPECIALITY WALL GRAPHIC - VRA	REFER TO ROTO GRAPHICS PACKAGE	DIGITAL PRINTING - CUSTOM	TYPE II	PROVIDE HIGH PERFORMANCE CLEAR COATING OVER GRAPHIC FOR ADDITIONAL DURABILITY PERFORMANCE		
CEILING							
ACT-01	ACOUSTICAL CEILING PANEL SYSTEM & GRID	ARMSTRONG CEILINGS	ULTIMA HIGH NRC, TEGULAR 15/16"	WHITE	24" X 24"		REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER PREPARATION AND INSTALLATION.
ACT-02	SPECIALITY CEILING PANEL SYSTEM	ARKTURA PANEL	VAPOR - FREQUENCY	ALUMINUM	24" X 48" X 1 1/2"		REFER TO ENLARGED ARCHITECTURAL REFLECTED CEILING PLANS FOR DETAILS
ACT-03	SPECIALITY CEILING PANEL SYSTEM	ARKTURA PANEL	VAPOR - TRAILS	ALUMINUM	24" X 48" X 1 1/2"		REFER TO ENLARGED ARCHITECTURAL REFLECTED CEILING PLANS FOR DETAILS
ACT-04	SPECIALITY CEILING PANEL SYSTEM	ARKTURA PANEL	VAPOR - SOLID	ALUMINUM	24" X 48" X 1 1/2"		REFER TO ENLARGED ARCHITECTURAL REFLECTED CEILING PLANS FOR DETAILS
ACT-05	SPECIALITY CEILING PANEL - CONCESSIONS	ARMSTRONG CEILINGS	CLASSIC AND SEMI CONCEALED CUSTOM CURVED METAL CLOUDS	WHITE (WH); TEXTURE: SMOOTH	ACOUSTICAL INFIT: ***H250; PRODUCT ID #: 490; 9/16" ACCESSORIES		REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER PREPARATION AND INSTALLATION.
ACT-06	ACOUSTICAL CEILING APPLIED PANEL	ARMSTRONG CEILINGS	TECTUM DIRECT ATTACHED CEILING PANELS	UNFINISHED	24" X 48" X 1 1/2"	TO BE PAINTED TO MATCH (PT-10) TRICORN BLACK FLAT	REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER PREPARATION AND INSTALLATION.
ACT-07	ACOUSTICAL CEILING PANEL SYSTEM_GRID	ARMSTRONG CEILINGS	ULTIMA HIGH NRC, TEGULAR 15/16"	WHITE	24" X 48"		REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER PREPARATION AND INSTALLATION.
MISC							
MT-01	METAL TUBE	SHERWIN WILLIAMS	1" STEEL TUBE	DARK GRAY	POWDERCOAT		
TP-01	TOILET PARTITIONS	BRADLEY CORP	PHENOLIC PRIVACY PARTITIONS - FLOOR & CEILING BRACED	SHEER MESH 4876	STAINLESS STEEL HARDWARE & COMPONENTS		REFER TO RESTROOM FLOORPLANS FOR LAYOUT COORDINATION.
WT-01	DOUBLE ROLLER SHADES W/ MOTORIZED SYSTEM	MECHO SHADES	DOUBLE SHADES W/ ELECTRO SHADE MOTORIZED SYSTEM WITH iQ2-AC SYSTEM	WHITE	CEILING JAMB MOUNTED		ROLLER SHADE MATERIAL INFORMATION LISTED IN WT-1a AND WT-1b
WT-01a	ROLLER SHADE FABRIC MATERIAL - 3% OPENESS	MECHO SHADES	SOHO COLLECTION - 1600 SERIES	CORNSILK	3% OPENESS SOLAR OPTICAL PROPERTIES		
WT-01b	BLACK OUT SHADE FABRIC MATERIAL	MECHO SHADES	ACOUSTI VEIL - 0890 SERIES	PEARL GRAY	0-1% OPENESS SOLAR OPTICAL PROPERTIES		
TRANSITITIONS							
HP-01	EPOXY SEALED CONCRETE FLOORS	STONEHARD	STONECLAD EPOXY FLOORING	CLEAR	CLEAR		
TS-01	FLOORING TRANSITION STRIP	SCHLUTER SYSTEMS	RENO-U TRANSITION	STAINLESS STEEL	STAINLESS STEEL		
TS-02	RESTROOM WALL TRANSITION STRIP	SCHLUTER SYSTEMS	RONDEC TRANSITION	STAINLESS STEEL	END CAP		
HARDWARE							
HD-01	HIDDEN CAM LOCK	SOUTHCO	8MM HEX QUARTER TURN	BLACK			
HD-02	MILLWORK CABINETRY HARDWARE - BACK OF HOUSE	RICHELIEU HARDWARE (B.O.D.)	MODERN STAINLESS STEEL - 2102	STAINLESS STEEL	PRODUCT ID#: BP210296170		
HD-03	WALL SHELF SUPPORT	RICHELIEU HARDWARE (B.O.D.)	DECORATIVE SHELF SUPPORT - 300	WHITE	PRODUCT ID#:300A30A		GC TO COORDINATE ADDITIONAL FRT BLOCKING FOR SUPPORT
HD-04	MILLWORK CABINETRY HARDWARE	RICHELIEU HARDWARE (B.O.D.)	MODERN METAL PULL - 2368	BRUSHED NICKEL	PRODUCT ID#:BP2368128195	5 1/32" CENTER TO CENTER	
LAMINATE & STONE							
PL-01	PLASTIC LAMINATE	FORMICA	5785-NG	ASHWOOD BEIGE	NATURAL GRAIN		
PL-02	PLASTIC LAMINATE @ EXHIBIT TANK	FORMICA	66-98 MATTE	PALOMA POLAR	MATTE		
SS-01	SOLID SURFACE	CORIAN	ANTARCTICA	ANTARCTICA	POLISHED/ 3MM		
SS-02	SOLID SURFACE	CORIAN	GLACIER WHITE	GLACIER WHITE	POLISHED/ 3MM		
MILLWORK							
CAB-01	BACK OF HOUSE MILLWORK		FLAT FRONT	MATCH PL-01	REFER TO ELEVATIONS FOR DIMENSIONS		HD-02 HARDWARE TO COORDINATE
CAB-02	MULTI-PURPOSE ROOM MILLWORK		FLAT FRONT	MATCH PL-01	REFER TO ELEVATIONS FOR DIMENSIONS		HD-04 HARDWARE TO COORDINATE
TR-01	STAINED FLAT STOCK WOODEN TRIM	STAINED GRADE WOOD TRIM	FORMICA; 5785-NG; ASHWOOD BEIGE	MATCH PL-1	KRYSTAL CLEARCOAT		
TR-02	STAINED 1" X12"DEPTH FLAT STOCK WOODEN SHELF	STAINED GRADE WOOD TRIM	FORMICA; 5785-NG; ASHWOOD BEIGE	MATCH PL-1	KRYSTAL CLEARCOAT		HD-03 HARDWARE TO COORDINATE

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1	Revision 1	12/12/2025

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REVIEWED BY: CA/ BK
Consultant: K2M
Architecture, Engineering, Interior Design, Facility Asset Management

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN657

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JOHN PENNEKAMP

Sheet Title: FINISH SCHEDULES & EQUIPMENT

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A610

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PLUMBING & EQUIPMENT LEGEND (ID)

Key Name	Description	Manufacturer	Style Model	Color	Comments
TOILET ACCESSORIES					
TA-01	SURFACE MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER WITH HOODS	BOBRICK	B-6997	SATIN FINISH	STAINLESS STEEL
TA-02	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL (CONTURA SERIES)	BOBRICK	B-270	STAINLESS STEEL	ADA COMPLIANT
TA-03	1-1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE (36")	BOBRICK	B-6806	SATIN FINISH	36" LENGTH - SLIP RESISTANT SURFACE
TA-04	1-1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE (42")	BOBRICK	B-6806	SATIN FINISH	42" LENGTH - SLIP RESISTANT SURFACE
TA-05	1-1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE (18")	BOBRICK	B-6806	SATIN FINISH	18" LENGTH - SLIP RESISTANT SURFACE
TA-06	RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK	B–43944	STAINLESS STEEL	ADA COMPLIANT
TA-07	HORIZONTAL STAINLESS STEEL RECESSED MOUNTED BABY CHANGING STATION	KOALA KARE	KB310-SSRE	STAINLESS STEEL	REFER TO MANF. INSTRUCTIONS FOR PROPER INSTALLATION METHODS.
TA-08	COAT HOOK WITH BUMPER	BOBRICK	B-9541	SATIN FINISH	STAINLESS STEEL; ADA COMPLIANT
TA-09	SURFACE MOUNTED SOAP DISPENSER (CLASSIC SERIES)	BOBRICK	B-2111	STAINLESS STEEL	ADA COMPLIANT
TA-10	STAINLESS STEEL MOP AND BROOM HOLDER	BOBRICK	B-223X24	STAINLESS STEEL	REFER TO MANF. INSTRUCTIONS FOR PROPER INSTALLATION METHODS.
EQUIPMENT					
EQ-01	UNDERCOUNTER REFRIGERATOR (B.O.H.)				
EQ-02	EXISTING PARK FREEZER	EXISTING TO BE RELOCATED)			
EQ-03	LOCKER ROOM BENCH (B.O.H.)	BRADLEY	PHENOLIC BENCH	SLATE GREY (D91)	4'-0" LENGTH
EQ-04	LOCKERS (B.O.H.); 18"w X 18"d X 72"h; SINGLE DOOR MODEL	BRADLEY	PHENOLIC LOCKER	SLATE GREY (D91)	ADA COMPLIANT; OWNER TO PROVIDE LOCKING PREFERENCE INFO.
PLUMBING FIXTURES					
EWC-01	ELECTRICAL WATER COOLER W/ BOTTLE FILLER (HIGH/ LOW)	ELKAY	VRCTLR8WSK	STAINLESS STEEL	REFER TO PLUMBING SHEETS
L-01	LAVATORY UNDERMOUNT SINK (SQUARE SHAPED)	AMERICAN STANDARD	0614	WHITE	SLOAN EFX-250 0.5 GPM; REFER TO PLUMBING SHEETS
L-02	LAVATORY WALL HUNG ADA SINK	AMERICAN STANDARD	03056	WHITE	SLOAN EFX-250 0.5 GPM; REFER TO PLUMBING SHEETS
MS-01	MOP SINK 24" X 24"	FIAT	TSB3010	FIAT #830AA	REFER TO PLUMBING SHEETS
P-01	SERVICE SINK FAUCET	T&S	B-0665-BSTR	POLISHED CHROME	REFER TO PLUMBING SHEETS
P-02	BACK OF HOUSE FAUCET @ CASEWORK; 1-HANDLE KITCHEN FAUCET	AMERICAN STANDARD	9316000.075	POLISHED CHROME	REFER TO MANF. INSTRUCTIONS FOR PROPER INSTALLATION METHODS.
P-03	MULTI-PURPOSE UNDERMOUNT SINK	KOHLER	K-33153-NA	STAINLESS STEEL	COORDINATE WITH P-04 FAUCET
P-04	MULTI-PURPOSE FAUCET	KOHLER	K-22065-VS	VIBRANT STAINLESS	COORDINATE WITH P-03 UNDERMOUNT SINK
S-01	SINGLE DROP SINK - STAINLESS STEEL	ELKAY	LRADQ312265	LKAV3031	REFER TO PLUMBING SHEETS
SH-01	WASHDOWN SHOWER	AMERICAN STANDARD	TU662SG213.002	POLISHED CHROME	REFER TO MANF. INSTRUCTIONS FOR PROPER INSTALLATION METHODS.
UR-01	URINAL FLUSH VALVE	AMERICAN STANDARD	6002.001	WHITE	SLOAN ECOS 8186 0.5 GPF; REFER TO PLUMBING SHEETS
WC-01	WATER CLOSET WALL HUNG	AMERICAN STANDARD	2257.101	WHITE	SLOAN ECOS 8111; REFER TO PLUMBING SHEETS
WC-02	WATER CLOSET WALL HUNG (ADA)	AMERICAN STANDARD	2257.101	WHITE	SLOAN ECOS 8111; REFER TO PLUMBING SHEETS
MISC.					
MR-01	GLASS MIRROR WITH 2" PAINTED WOOD TRIM FRAME; TEMPERED GLASS	REFER TO ELEVATIONS FOR DIMENSIONS	FLAT STOCK; THIN PROFILE	PT-09	DESIGNER/ OWNER AND ARCHITECTURE TO PROVIDE APPROVAL PRIOR TO CONSTRUCTION
MR-02	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	BOBRICK	B-290 2436	STAINLESS STEEL	DIMENSIONS: 24" X 36"

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
	NORTH DECK					
01	OFFICE	RF-01	RB-1	PT-1	ACT-01	CLG TYPE 1
01A	BOH 1	HP-01	CB-1	FRP-1/ PT-1	EXPOSED	EXPOSED CEILING
02	BOH 2	CONC-1	CB-1	FRP-1/PT-1	EXPOSED	EXPOSED CEILING
03	EXHIBITS	FLR. PLAN	RB-1	PT-1		EXPOSED CEILING
04	ELEC	CONC-01	RB-1	PT-1	EXPOSED	EXPOSED CEILING
05	IT	CONC-01	RB-1	PT-1	EXPOSED	EXPOSED CEILING
06	MP STORAGE	CONC-01	RB-1	PT-1	EXPOSED	EXPOSED CEILING
07	MP CORRIDOR	CONC-01	RB-1	PT-1	ACT-07	CLG TYPE 2
08	MULTI-PURPOSE	RF-1	RB-1	PT-1	ACT-01/PT-04	CLG TYPE 1
09	LOBBY	TL-1	RB-1	WC-1/ PT-1	TYPE 5	CLG TYPE 5
09	LOBBY	FLR. PLAN	RB-1	PT-1	TYPE 5	CLG TYPE 5
10	CORRIDOR	CONC-01	RB-1	PT-1	ACT-01	CLG TYPE 1
11	WOMEN	CONC-01	TL-02	TL-02/PT-03	PT-04	CLG TYPE 3.1
12	FAM	CONC-01	TL-02	TL-02/PT-03	PT-04	CLG TYPE 3.1
13	JANITOR	CONC-01	RB-1	PT-1	PT-04	CLG TYPE 3.1
14	MEN	CONC-01	TL-02	T-1/ PT-3	PT-04	CLG TYPE 3.1
15	GEN STORAGE	CONC-01	RB-1	PT-1	EXPOSED	EXPOSED CEILING
16	CONCESSIONS	FLR. PLAN	RB-1	PT-1	TYPE 5	CLG TYPE 4,5, & 6
17	SHOP STORAGE	CONC-01	RB-1	PT-1	EXPOSED	EXPOSED CEILING
18	IT	CONC-01	RB-1	PT-1	EXPOSED	EXPOSED CEILING
19	COUNTING	CONC-01	RB-1	PT-1	ACT-01	CLG TYPE 1
LOADING	LOADING					
NORTH DECK	EXTERIOR					
ROOF	EXTERIOR					
SOUTH DECK	EXTERIOR					

NOTE:
1. CONTRACTOR SHALL SUBMIT ALL FINISH SAMPLES, WHETHER INTERIOR OR EXTERIOR, AT THE SAME TIME SO A UNIFORMED, FINAL COLOR AND TEXTURE SELECTION / COORDINATION MAY OCCUR. IF FINISH SAMPLES ARE NOT SUBMITTED AT ONE TIME THEY SHALL BE HELD UNTIL SUCH TIME THAT ALL FINISH SELECTION CAN BE MADE. NOTE: IF CONTRACTOR FAILS TO SUBMIT FINISH SAMPLES IN A TIMELY, COHESIVE FASHION AND CAUSES DELAY IN MATERIAL ORDERING, IT SHALL NOT BE GROUNDS FOR CONTRACT EXTENSION OR REQUEST FOR ADDITIONAL FUNDING BY CONTRACTOR NOR REPRESENTS ANY NEGLIGENT ACT, ERROR, OR OMISSION BY DESIGN PROFESSIONAL. THE CONTRACTOR IS SOLELY LIABLE FOR DELAYS OR MATERIAL COST INCREASES.

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SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant: K2M DESIGN
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COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STATE OF FLORIDA · CHRISTOPHER L. MALONEY · REGISTERED ARCHITECT · AR93346
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Christopher L. Maloney (305)395-0281 chris@k2mdesign.com
COA # AA26001059

JOHN PENNEKAMP

Sheet Title: INTERIORS SCHEDULE

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A611

PLOTTED: 12/12/2025 1:12:25 PM

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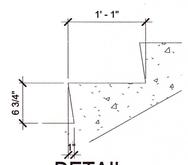
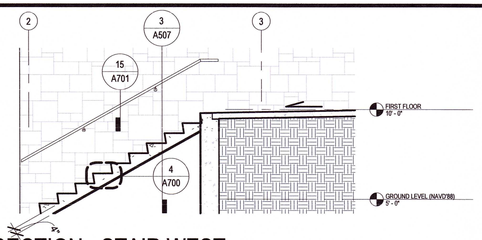
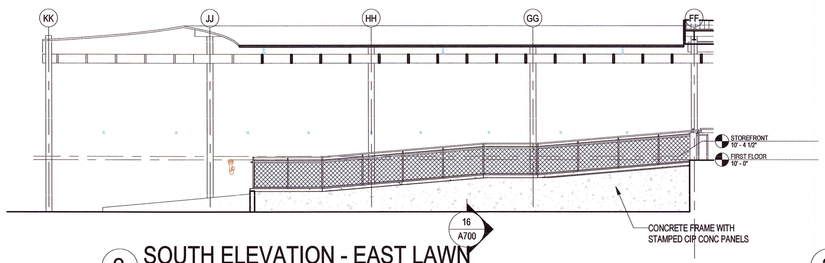


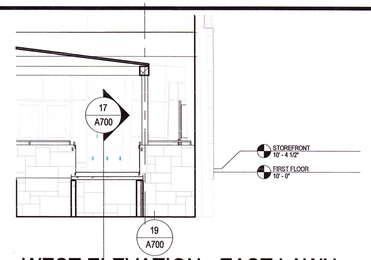
4 DETAIL - STAIR TREAD
1" = 1'-0"



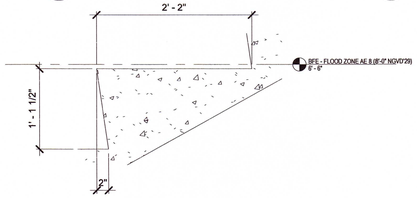
1 SECTION - STAIR WEST
1/4" = 1'-0"



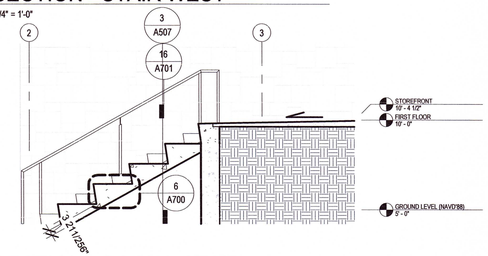
2 SOUTH ELEVATION - EAST LAWN
1/8" = 1'-0"



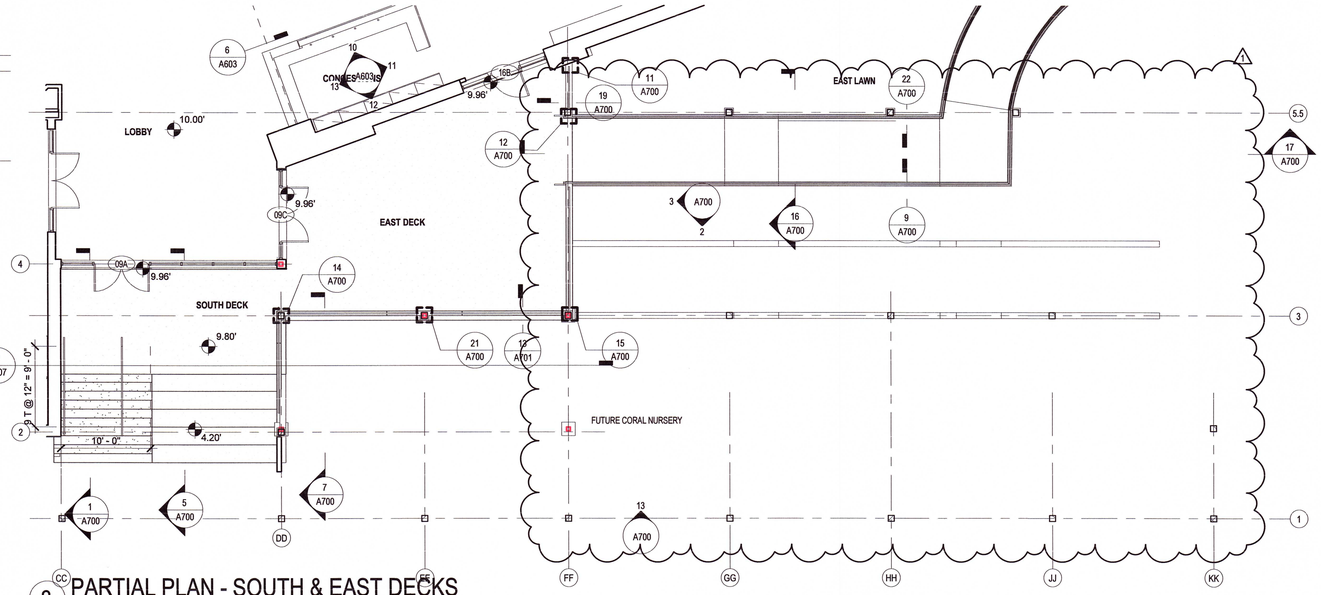
3 WEST ELEVATION - EAST LAWN
1/8" = 1'-0"



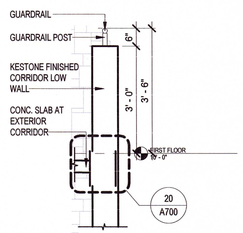
6 DETAIL - SOCIAL SEATING TREAD
1" = 1'-0"



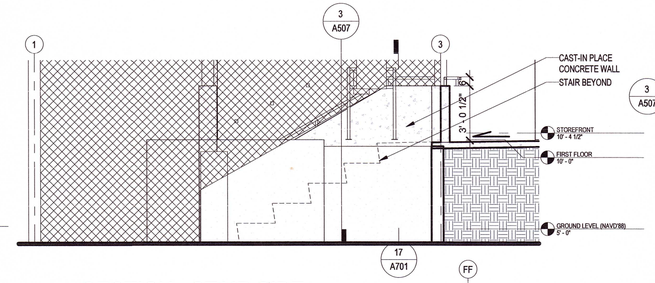
5 SECTION - SOCIAL STAIR
1/4" = 1'-0"



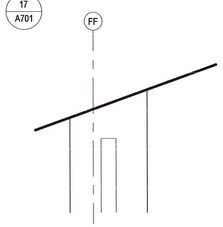
8 PARTIAL PLAN - SOUTH & EAST DECKS
1/8" = 1'-0"



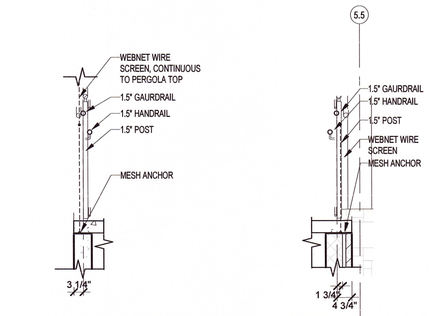
19 SECTION DETAIL - RAILING
1/2" = 1'-0"



7 SECTION - STAIR SIDE
1/4" = 1'-0"



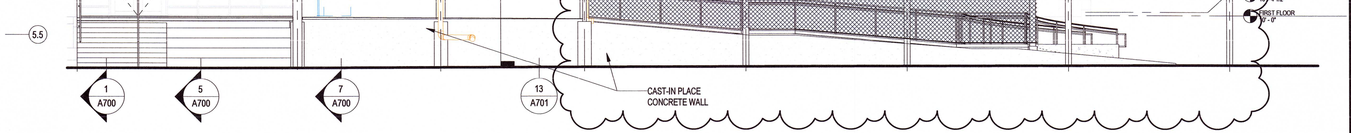
11 PLAN DETAIL - EAST DECK
1 1/2" = 1'-0"



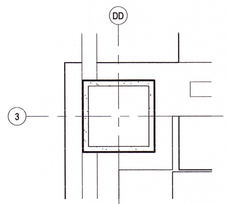
9 SECTION DETAIL - RAILING
1/2" = 1'-0"

22 SECTION DETAIL - RAILING @ RAMP
1/2" = 1'-0"

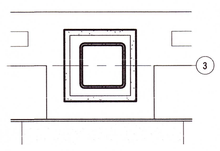
12 PLAN DETAIL - RAMP CORNER
1 1/2" = 1'-0"



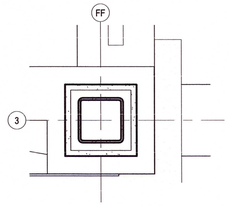
13 PARTIAL ELEVATION - SOUTH DECK & RAMP
1/8" = 1'-0"



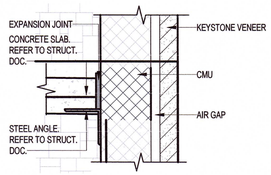
14 PLAN DETAIL - SOUTH DECK
1 1/2" = 1'-0"



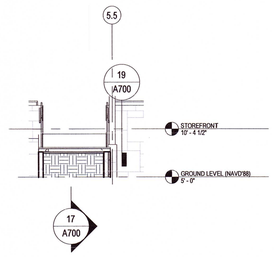
21 PLAN DETAIL
1 1/2" = 1'-0"



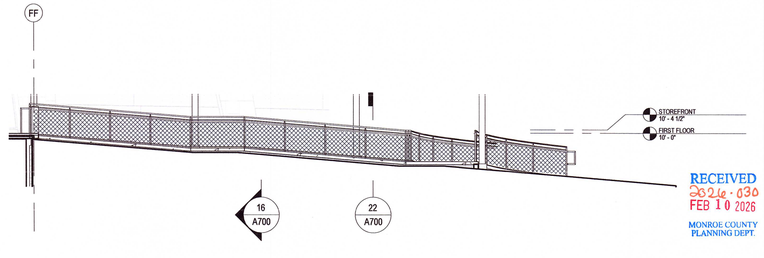
15 PLAN DETAIL - RAMP CORNER
1 1/2" = 1'-0"



20 DETAIL - DECK
1 1/2" = 1'-0"



16 SECTION - SOUTH RAMP
1/8" = 1'-0"



17 SECTION - SOUTH RAMP
1/8" = 1'-0"

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ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:

STATE OF FLORIDA · CHRISTOPHER A. MALONEY · REGISTERED ARCHITECT · AR93161

Digitally signed by Christopher A. Maloney
Date: 2025.12.12 13:12:29 -05'00'
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JOHN PENNEKAMP

Sheet Title: STAIR PLANS AND DETAILS - EXTERIOR STAIR

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: A700

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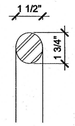
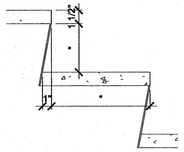
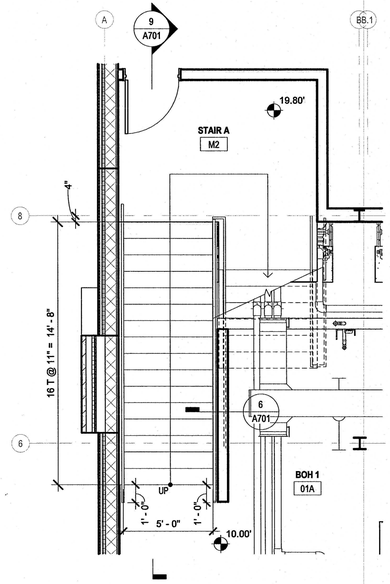
SECTION DETAIL - HANDRAIL
15 3" = 1'-0"



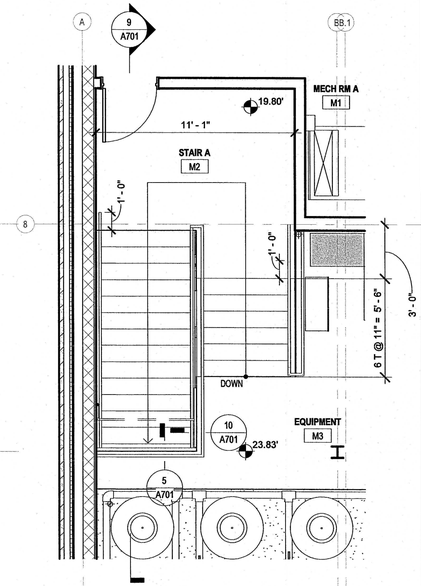
SECTION DETAIL - HANDRAIL
16 3" = 1'-0"



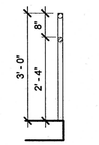
DETAIL - STAIR TREAD
4 1 1/2" = 1'-0"



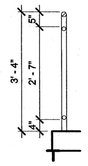
FIRST FLOOR - BOH STAIR
7 1/4" = 1'-0"



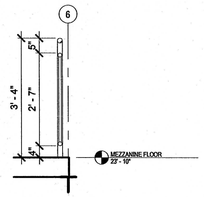
MEZZANINE - BOH STAIR
8 1/4" = 1'-0"



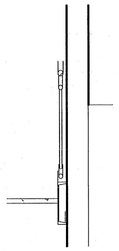
SECTION DETAIL - RAILING
18 1/2" = 1'-0"



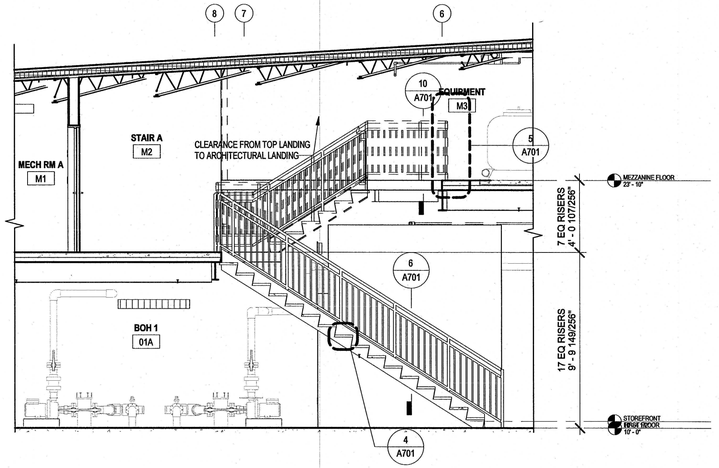
SECTION DETAIL - RAILING
10 1/2" = 1'-0"



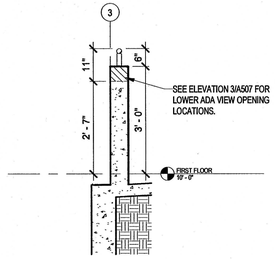
SECTION DETAIL - RAILING
5 1/2" = 1'-0"



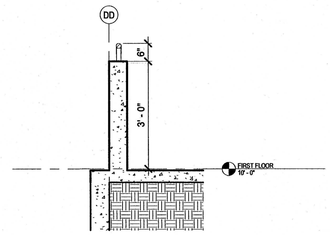
SECTION DETAIL - RAILING
6 1/2" = 1'-0"



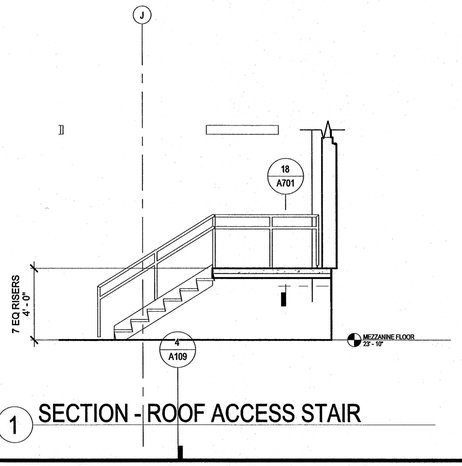
SECTION - BOH STAIR
9 1/4" = 1'-0"



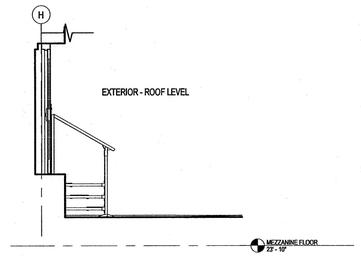
SECTION DETAIL - RAILING
13 1/2" = 1'-0"



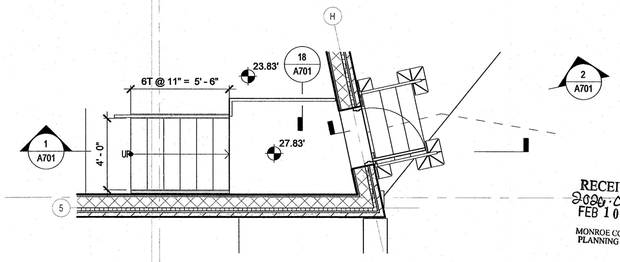
SECTION DETAIL - RAILING
17 1/2" = 1'-0"



SECTION - ROOF ACCESS STAIR
1 1/4" = 1'-0"



SECTION - ROOF ACCESS STAIR
2 1/4" = 1'-0"



MEZZANINE - ROOF ACCESS STAIRS
3 J

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SYMBOL	REVISION	DATE

DESIGNER: GWWO / K2M
DRAWN BY: GWWO
REVIEWED BY: CA/ BK
Consultant:

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

STATE OF FLORIDA
BRITTANY C. WALDRON
LICENSED
AR93461
REGISTERED ARCHITECT
Brittany Waldron 02/05/2026
Curtis + Houser Architects, Inc.
COA #: AA3001059

JOHN PENNEKAMP

Sheet Title: STAIR PLANS AND DETAILS - MEZZANINE STAIR

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A701

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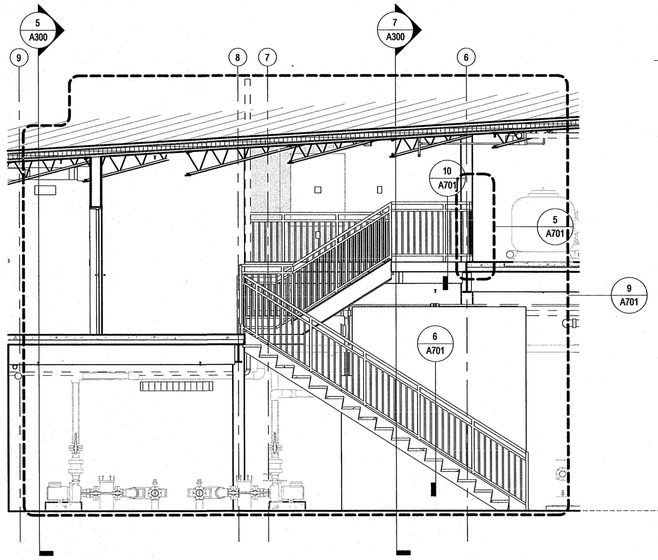
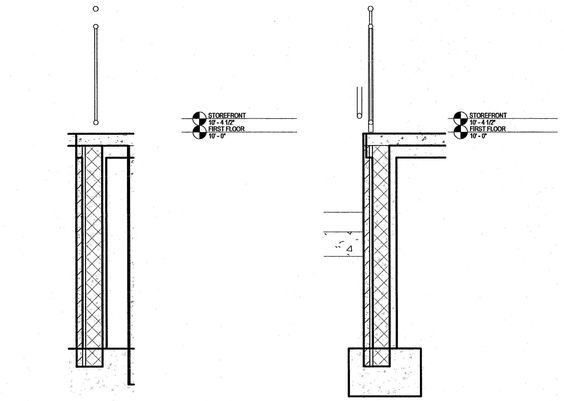
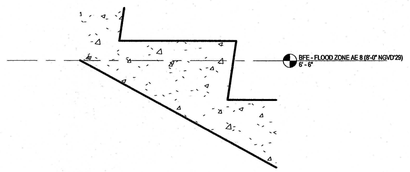


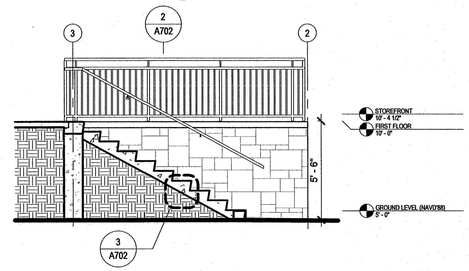


1 SECTION DETAIL - RAILING
1/2" = 1'-0"

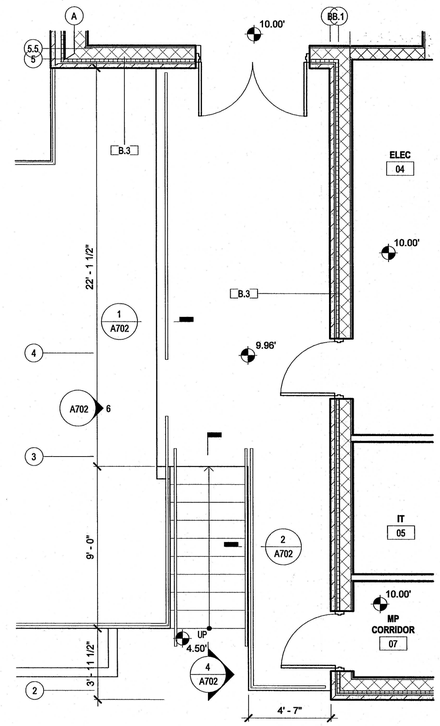
2 SECTION DETAIL - RAILING
1/2" = 1'-0"



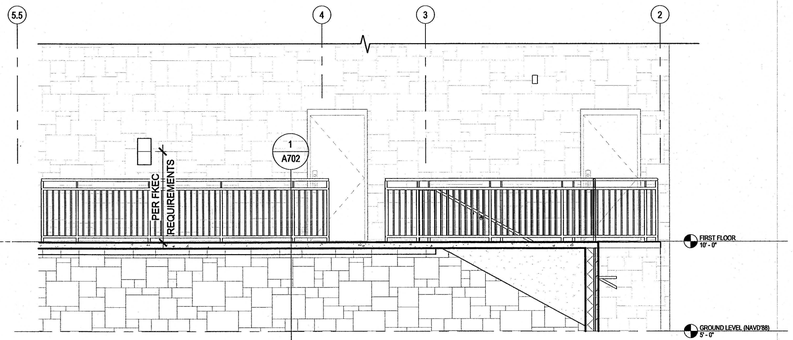
3 DETAIL - STAIR TREAD
1 1/2" = 1'-0"



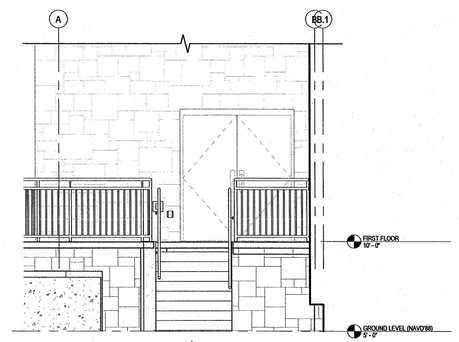
4 SECTION - STAIR EAST
1/4" = 1'-0"



5 FIRST FLOOR CALLOUT - BOH PLATFORM
1/4" = 1'-0"



6 ELEVATION - PLATFORM WEST
1/4" = 1'-0"



7 ELEVATION - PLATFORM SOUTH
1/4" = 1'-0"

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roto

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Division of Recreation and Parks
Bureau of Design and Construction
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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

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Miami, Florida
Marathon, Florida
www.K2Mdesign.com
PROF. REG. #AA0001059
Based on Trust and Results
Charles Bennett | Jeffrey Bullock | Jeff Hunt | Marshall Chodosh | Jeffrey Pfeiffer | Jack Rains
Architecture, Engineering, Interior Design, Facility Asset Management

DESIGNER: GWWO / K2M
DRAWN BY: K2M
REVIEWED BY: CA/ BK
Consultant:



Scott C. Magness AR93181
Date: 12/12/2025
COA # AA26001059

JOHN PENNEKAMP

Sheet Title: STAIR PLANS AND DETAILS - BOH ACCESS PLATFORM

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
A702

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FLOOR FINISH LEGEND

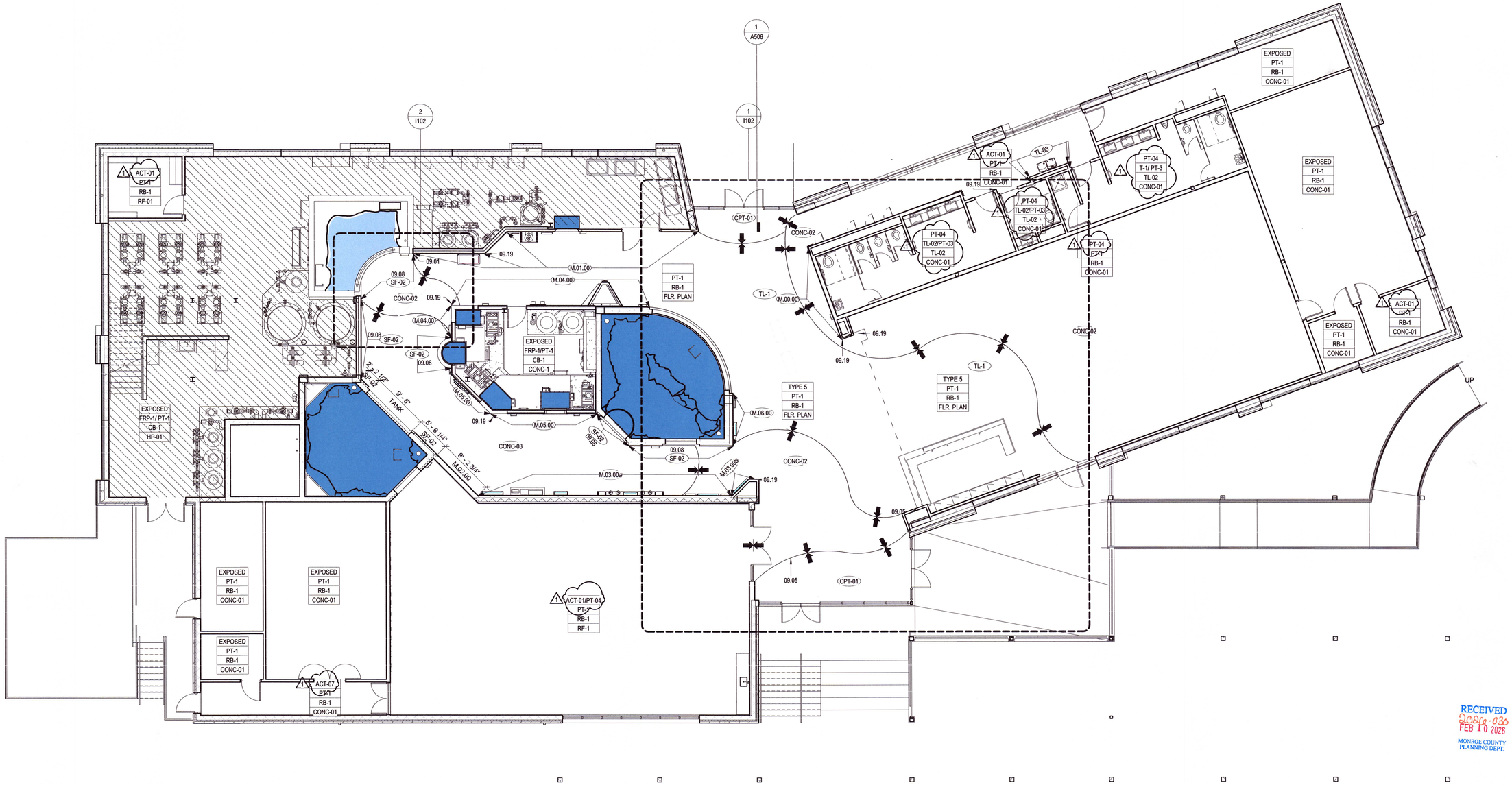
LIGHT STAIN COLOR CONCRETE	TERRAZZO
DARK STAIN COLOR CONCRETE	SEALED CONCRETE
LUXURY VINYL TILE	EPOXY FLOORING

0' 2' 4' 8' 16'

FINISH PLAN LEGEND

XX-XXX	FINISH TAG. REFER TO FF&E SPECIFICATION MANUAL AND FINISH SCHEDULE A6.1.1 FOR ADDITIONAL INFORMATION.
XX XX	FLOORING MATERIAL TRANSITION. ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
CEILING / WALL / BASE / FLOOR	ROOM TYPICAL FINISHES UNLESS NOTED OTHERWISE. REFER TO FF&E SPECIFICATION MANUAL AND FINISH SCHEDULE A6.1.1 FOR ADDITIONAL INFORMATION.
	DIRECTION OF PLAN FLOORING INSTALLATION
	CONTRACTOR TO PROVIDE CONTROL JOINT AT TILE PATTERN. LOCATION IS AN APPROXIMATION. CONFIRM WITH DESIGNER PRIOR TO INSTALL

NOTE	DESCRIPTION
09.01	DIGITAL VINYL MURAL GRAPHICS PROVIDED BY ROTO TO TERMINATE INTO CONCRETE WALL MATERIAL WITH A FINISHED EDGE. MURAL GRAPHIC DETAILS TO BE COORDINATED WITH ROTO, ARCHITECT AND DESIGNER PRIOR TO PURCHASING.
09.05	BRUSHED STAINLESS STEEL SCHLUTER STRIP TO BE PROVIDED, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
09.08	EXPOSED CONCRETE COLUMNS AND CONCRETE WALLS TO BE SANDED & SEALED FOR A SMOOTH SURFACE APPLICATION.
09.19	CORNER GUARDS TO BE PROVIDED; REFER TO FINISH SCHEDULE FOR DETAILS.



1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 05.16.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: CN667

DESIGNER: Designer
DRAWN BY: Author
REVIEWED BY: Checker
Consultant: K2M DESIGN

STATE OF FLORIDA SCOTT C. MALONEY REGISTERED ARCHITECT AR93561

JOHN PENNEKAMP
Sheet Title: FIRST FLOOR FINISH PLAN
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: I100

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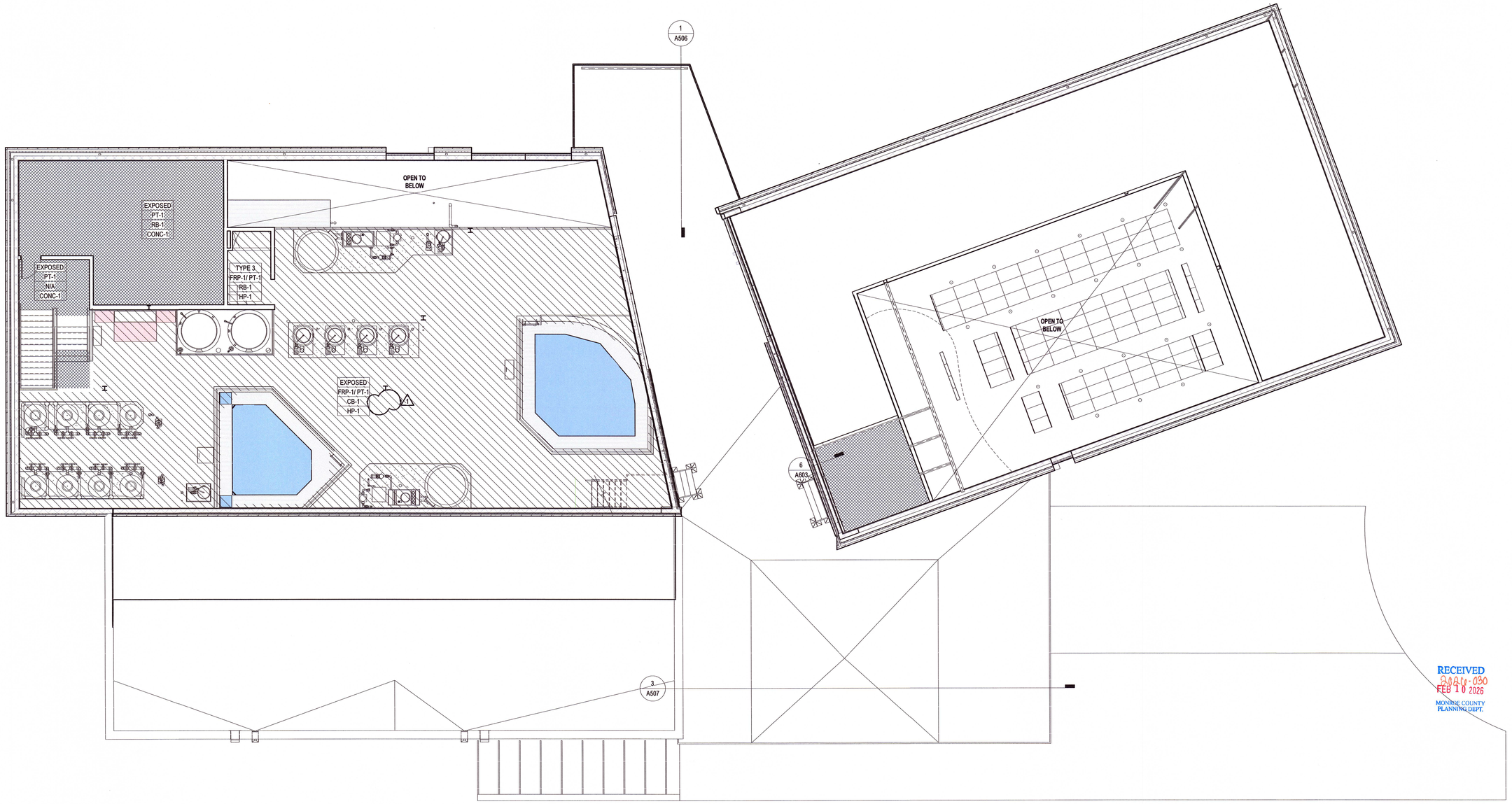
FLOOR FINISH LEGEND

CARPET TILE	TERRAZZO
VINYL COMPOSITION TILE	PORCELAIN TILE
EPOXY FLOORING	SEALED CONCRETE

FINISH PLAN LEGEND

XX-XXX	FINISH TAG. REFER TO FF&E SPECIFICATION MANUAL AND FINISH SCHEDULE A6.1.1 FOR ADDITIONAL INFORMATION.
XX XX	FLOORING MATERIAL TRANSITION. ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
CEILING / WALL / BASE / FLOOR	ROOM TYPICAL FINISHES UNLESS NOTED OTHERWISE. REFER TO FF&E SPECIFICATION MANUAL AND FINISH SCHEDULE A6.1.1 FOR ADDITIONAL INFORMATION.
	DIRECTION OF PLAN FLOORING INSTALLATION
	CONTRACTOR TO PROVIDE CONTROL JOINT AT TILE PATTERN. LOCATION IS AN APPROXIMATION. CONFIRM WITH DESIGNER PRIOR TO INSTALL

NOTE	DESCRIPTION



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1 MEZZANINE FLOOR FINISH PLAN
1/8" = 1'-0"

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COMP. FILE No.: 0000000
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DESIGNER: Designer
DRAWN BY: Author
REVIEWED BY: Checker

Consultant: K2M DESIGN
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SCOTT C. MALONEY
AR93161
REGISTERED ARCHITECT
Scott C. Maloney, Licensed Architect
Expiration Date 02/28/2027
COA #: AA26001059

JOHN PENNEKAMP
Sheet Title: MEZZANINE FINISH PLAN
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
I101

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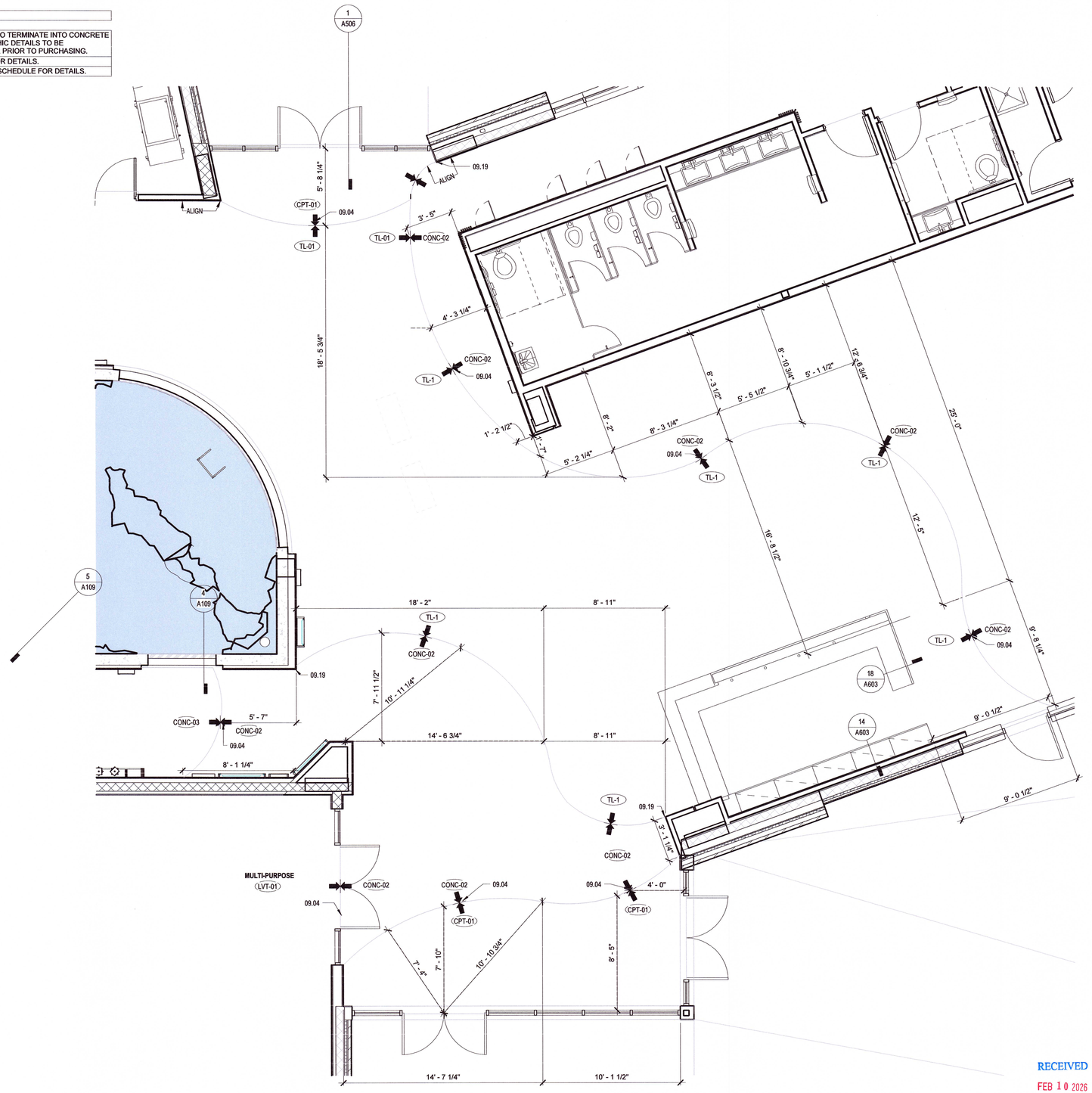
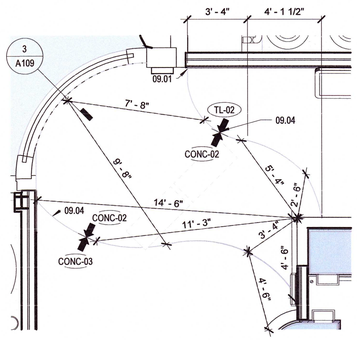
FINISH PLAN LEGEND

XX-XXX	FINISH TAG. REFER TO FF&E SPECIFICATION MANUAL AND FINISH SCHEDULE A6.1.1 FOR ADDITIONAL INFORMATION.
XX ◄► XX	FLOORING MATERIAL TRANSITION. ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
CEILING WALL BASE FLOOR	ROOM TYPICAL FINISHES UNLESS NOTED OTHERWISE. REFER TO FF&E SPECIFICATION MANUAL AND FINISH SCHEDULE A6.1.1 FOR ADDITIONAL INFORMATION.
⟵	DIRECTION OF PLAN FLOORING INSTALLATION
———	CONTRACTOR TO PROVIDE CONTROL JOINT AT TILE PATTERN. LOCATION IS AN APPROXIMATION. CONFIRM WITH DESIGNER PRIOR TO INSTALL

NOTE	DESCRIPTION
09.01	DIGITAL VINYL MURAL GRAPHICS PROVIDED BY ROTO TO TERMINATE INTO CONCRETE WALL MATERIAL WITH A FINISHED EDGE. MURAL GRAPHIC DETAILS TO BE COORDINATED WITH ROTO, ARCHITECT AND DESIGNER PRIOR TO PURCHASING.
09.04	PROVIDE TRANSITION STRIP, SEE FINISH SCHEDULE FOR DETAILS.
09.19	CORNER GUARDS TO BE PROVIDED; REFER TO FINISH SCHEDULE FOR DETAILS.





N
2 ENLG FINISH FLOOR PLAN - EXHIBIT 1
1/4" = 1'-0"

N
1 ENLG FINISH FLOOR PLAN - ENTRY, LOBBY & CONCESSIONS
1/4" = 1'-0"

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COMP. FILE No.: 0000000
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DESIGNER: Designer
DRAWN BY: Author
REVIEWED BY: Checker

Consultant: K2M DESIGN
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SCOTT C. MADDOX
REGISTERED ARCHITECT
LICENSE NO. AR 0019067
Scott C. Maddox, Florida License AR0019067
Certificate of Authorization #AA26001059
COA # AA3000105S

JOHN PENNEKAMP

Sheet Title: ENLARGED FINISH FLOOR PLANS

Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: I102

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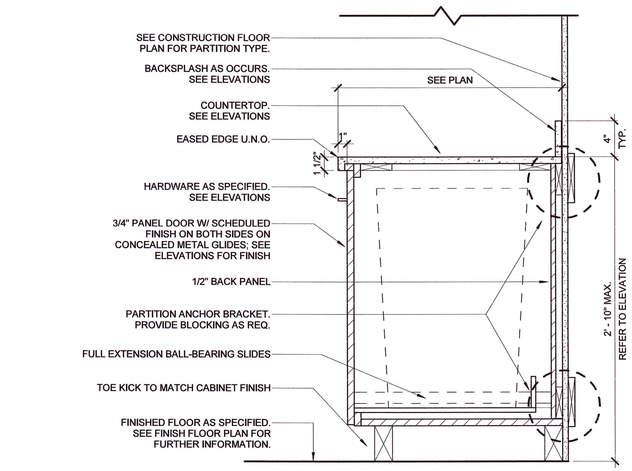
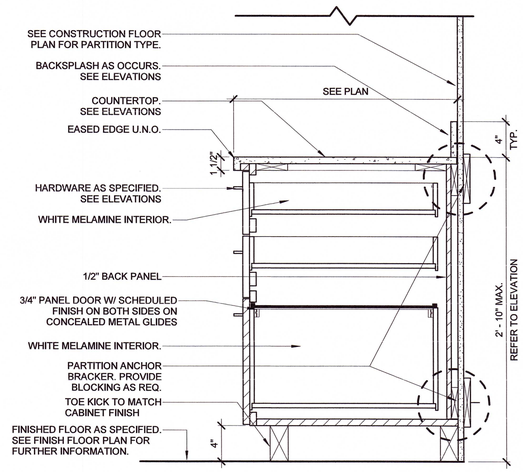
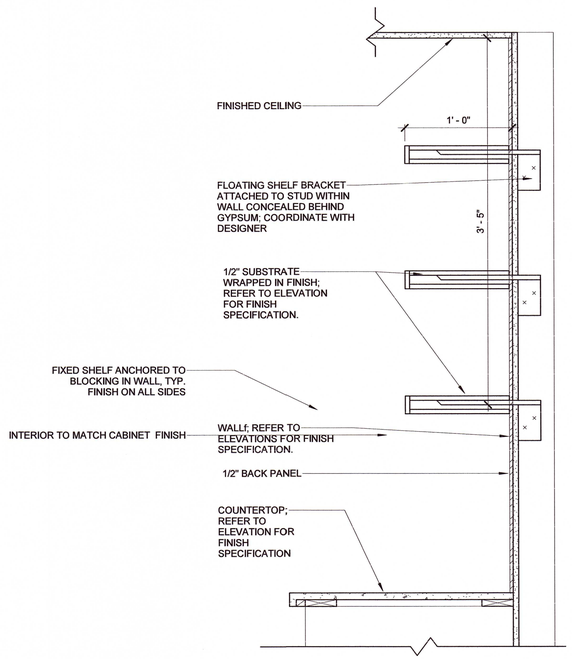


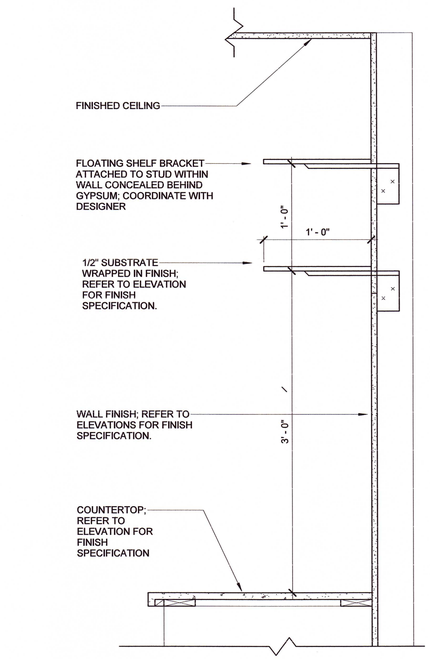
N 5 ID_Base Cabinet - Pull Out Trash
1 1/2" = 1'-0"



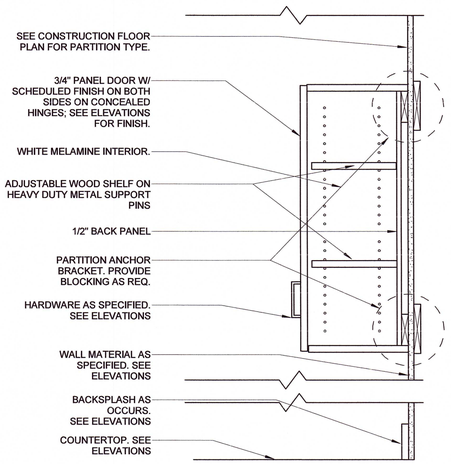
N 4 ID_Base Cabinet - Drawer/Drawer/ Lateral
1 1/2" = 1'-0"



N 3 ID_ Upper Cabinet- Open
1 1/2" = 1'-0"



N 2 ID_ Upper Shelving
1 1/2" = 1'-0"



N 1 ID_ Upper Cabinet
1 1/2" = 1'-0"

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DCI ASSOCIATES, INC.

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DESIGNER: AA
DRAWN BY: AA
REVIEWED BY: MG
Consultant:

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JOHN PENNEKAMP
Sheet Title: INTERIOR DETAILS
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
I103

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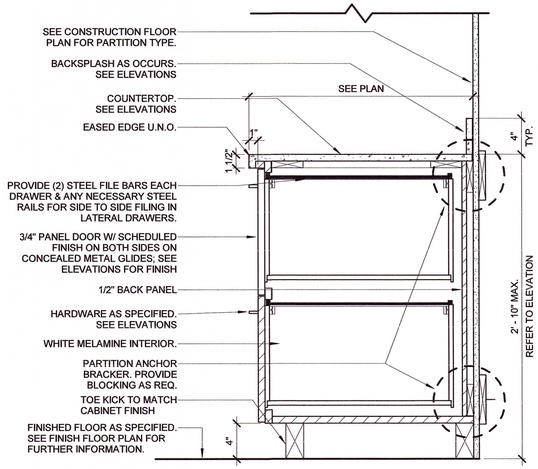
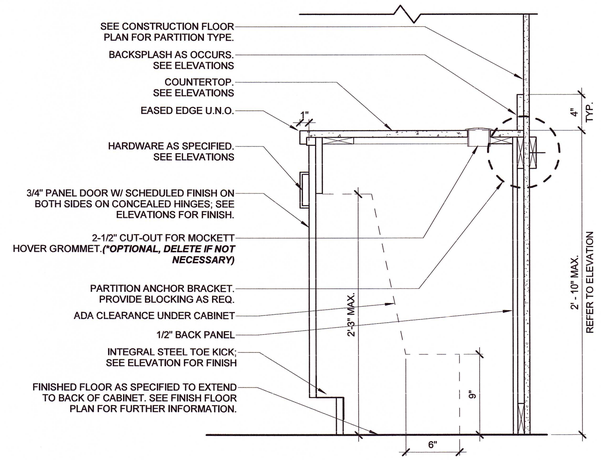
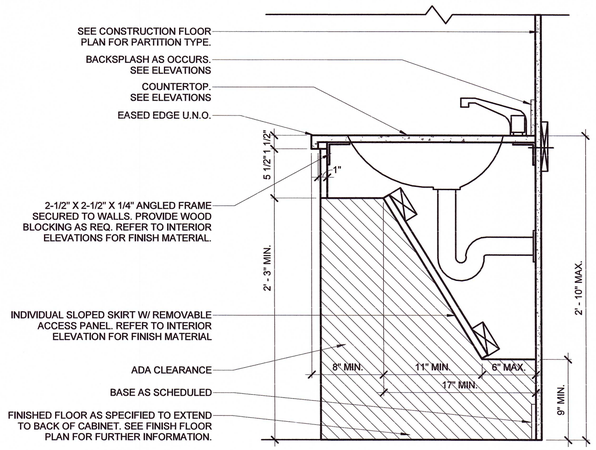


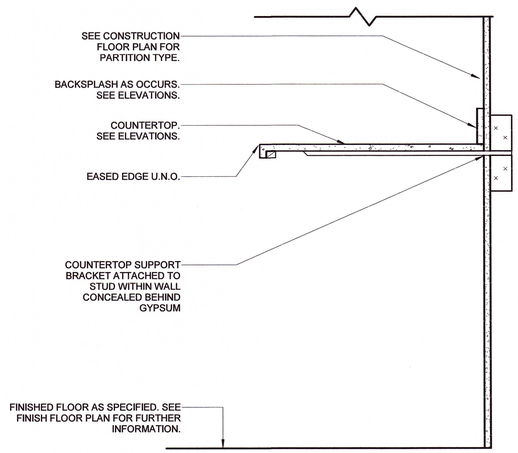
N 6 ID_Base Cabinet - Lateral Files
1 1/2" = 1'-0"



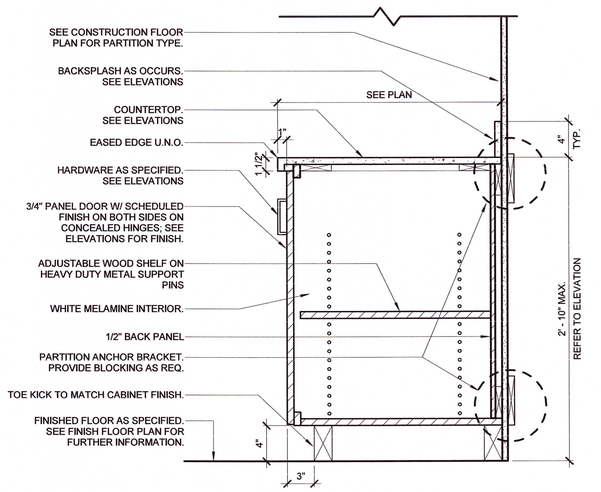
N 5 ID_Base Cabinet - ADA Integral Toe
1 1/2" = 1'-0"



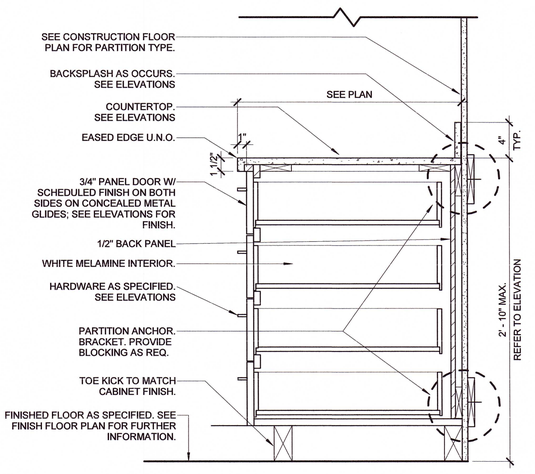
N 4 ID_Base Cabinet - ADA Sink - Vanity
1 1/2" = 1'-0"



N 3 ID_Countertop - Open Knee Space
1 1/2" = 1'-0"



N 2 ID_Base Cabinet - Single Door
1 1/2" = 1'-0"



N 1 ID_Base Cabinet - Drawers (4EQ)
1 1/2" = 1'-0"

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ISSUE DATE: 05.16.2025
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STATE PROJECT No.: CN667

DESIGNER: AA
DRAWN BY: AA
REVIEWED BY: MG

Consultant: K2M DESIGN
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Scott C. Maslow License No. AR93916
Date: 12/12/2025
COA # AA26001059

JOHN PENNEKAMP
Sheet Title: INTERIOR DETAILS
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: I104

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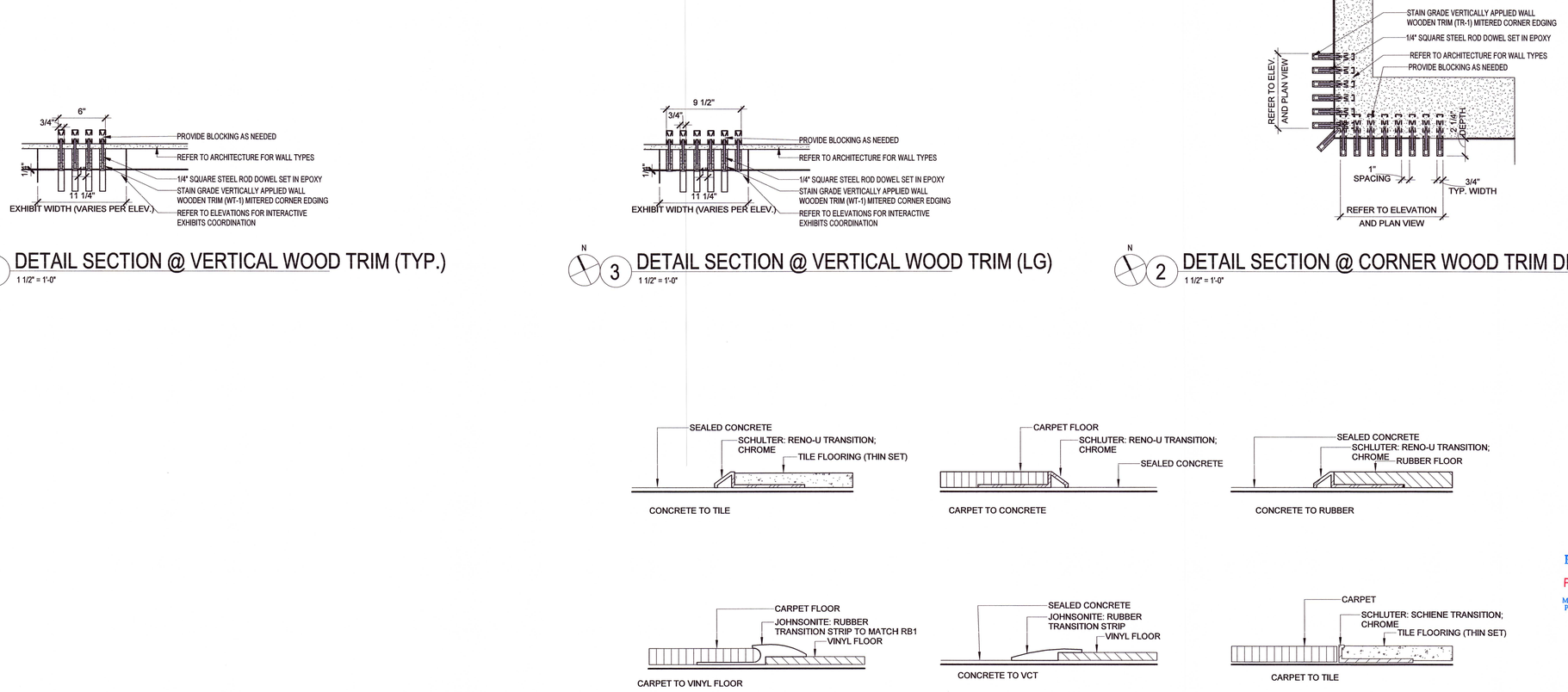

4 DETAIL SECTION @ VERTICAL WOOD TRIM (TYP.)
1 1/2" = 1'-0"

3 DETAIL SECTION @ VERTICAL WOOD TRIM (LG)
1 1/2" = 1'-0"

2 DETAIL SECTION @ CORNER WOOD TRIM DETAILS
1 1/2" = 1'-0"

1 ID_ Transition Detail
1 1/2" = 1'-0"

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SYMBOL	REVISION	DATE

ISSUE DATE: 05.16.2025
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STATE PROJECT No.: CN667

DESIGNER: AA
DRAWN BY: AA
REVIEWED BY: MG

Consultant: K2M DESIGN
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SCOTT C. MALONEY
AR93161
REGISTERED ARCHITECT
Scott C. Maloney, Licensed Architect
Expiration Date 02/28/2027
COA #: AA26001059

JOHN PENNEKAMP
Sheet Title: INTERIOR DETAILS
Project Title: NEW INTERPRETIVE CENTER
JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
I105

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FIRE PROTECTION DESIGN CRITERIA:

61G15-32.003 (1) (2) (5)

(1) SCOPE OF WORK:

NEW CONSTRUCTION BUILDING:
FIRE PROTECTION SYSTEM FOR NEW CONSTRUCTION 1 STORY WITH A MEZZANINE INTERPRETIVE CENTER.

FIRE PROTECTION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND VERIFYING A CURRENT WATER FLOW TEST AND PRESSURE DATA, THE DESIGN OF SHOP DRAWINGS AND PERFORMING HYDRAULIC CALCULATIONS. CONTRACTOR SHALL PROVIDE ALL WORK CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED FOR ON THE PLANS. THE INSTALLATION AND DESIGN SHALL COMPLY WITH NFPA 13, 2019 EDITION, CURRENT FLORIDA FIRE PREVENTION CODE, CURRENT FLORIDA BUILDING CODE CHAPTER NINE FIRE PROTECTION SYSTEMS, FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32 AND ALL OTHER CITY, COUNTY AND STATE REGULATIONS.

(2) ACCEPTANCE TEST CRITERIA:
TESTING OF FIRE PROTECTION SYSTEM AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE ITEMS PER NFPA 13, 2019 EDITION, FIGURES 8.10.1 AND 28.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE AND UNDERGROUND PIPING.

TESTING OF FIRE PROTECTION SYSTEMS AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE ITEMS PER NFPA 13R, 2019 EDITION, FIGURES 10.1.2 CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING.

SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE FOR 2 HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM IS IN EXCESS OF 150 PSI.

THE TESTING PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED.

THE CONTRACTOR SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS IN ACCORDANCE WITH NFPA-13. COMPLETE THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S), AND FORWARD THE APPROVED CERTIFICATE(S) TO THE ARCHITECT/ENGINEER FOR APPROVAL OF THE INSTALLATION.

ALL TEST CERTIFICATE(S) SHALL BE DATED, SIGNED AND WITNESSED BY AHJ. SUBMIT ONE COPY OF EACH TEST CERTIFICATE TO ARCHITECT/ENGINEER.

(5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS:
THE SUPPORT SYSTEMS FOR THIS BUILDING SHALL BE DESIGNED BY A STATE LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH F.A.C., PLEASE REFER TO STRUCTURAL DRAWINGS FOR LIVE AND DEAD LOADING INFORMATION. THERE ARE NO SIGNIFICANT STRUCTURAL OPENINGS THAT WILL BE REQUIRED FOR THIS FIRE SPRINKLER SYSTEM.

61G15-32.004 (2) (A-M)

A. POINT OF SERVICE:
POINT OF CONNECTION SHALL BE TO AN EXISTING WATER SUPPLY MAIN ON SITE. POINT OF SERVICE OCCURS WHEN THE UNDERGROUND PIPING FOR THE FIRE SPRINKLER SYSTEM BECOMES EXCLUSIVELY FOR THE FIRE PROTECTION SYSTEM. ONE FIRE DEPARTMENT CONNECTION SHALL LOCATED ON SITE. REFER TO CIVIL UTILITY SITE DRAWINGS FOR LOCATION OF POS AND FDC.

THIS IS AN EXISTING BUILDING RENOVATION. REFER TO CIVIL AS-BUILT DRAWINGS FOR POINT OF SERVICE LOCATION.

B. APPLICABLE NFPA STANDARD TO BE APPLIED:

- FLORIDA FIRE PREVENTION CODE 8TH EDITION
- NFPA 13, 2019 EDITION
- NFPA 24, 2019 EDITION
- NFPA 25, 2020 EDITION

C. CLASSIFICATION OF HAZARD OCCUPANCY OF EACH AREA OR ROOM:

LIGHT HAZARD OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: GENERAL BUILDING AREAS.

ORDINARY HAZARD GROUP I OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: STORAGE ROOMS, ELECTRICAL ROOMS, MECHANICAL ROOMS, IDF ROOMS AND IT ROOMS.

ORDINARY HAZARD GROUP II OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: PUMP AND EQUIPMENT ROOMS.

REFER TO FIRE PROTECTION DRAWINGS FOR ALL ROOM HAZARD OCCUPANCY CLASSIFICATIONS.

D. DESIGN APPROACH:

DENSITY/AREA:

LIGHT HAZARD:
0.10 GPM/SQ.FT. OVER THE MOST DEMANDING 1500 SQ. FT. AREA OF SPRINKLER OPERATION. AREA OF OPERATION MAY BE REDUCED FOR LISTED QUICK RESPONSE SPRINKLER HEADS PER NFPA 13, 2019 EDITION SECTION 19.3.3.2.3.1 IF APPLICABLE. AN ADDITIONAL 100 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

ORDINARY HAZARD GROUP I:
0.15 GPM/SQ.FT. OVER THE MOST DEMANDING 1500 SQ. FT. AREA OF SPRINKLER OPERATION. AREA OF OPERATION MAY BE REDUCED FOR LISTED QUICK RESPONSE SPRINKLER HEADS PER NFPA 13, 2019 EDITION SECTION 19.3.3.2.3.1 IF APPLICABLE. AN ADDITIONAL 250 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

ORDINARY HAZARD GROUP II:
0.20 GPM/SQ.FT. OVER THE MOST DEMANDING 1500 SQ. FT. AREA OF SPRINKLER OPERATION. AREA OF OPERATION MAY BE REDUCED FOR LISTED QUICK RESPONSE SPRINKLER HEADS PER NFPA 13, 2019 EDITION SECTION 19.3.3.2.3.1 IF APPLICABLE. AN ADDITIONAL 250 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

SPRINKLER HEADS:

QUICK RESPONSE, 155°F UNLESS OTHERWISE NOTED.

SPACING:

STANDARD COVERAGE HEADS:
PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 225 SQ. FT. FOR ALL LIGHT HAZARD AREAS, AND 130 SQ. FT. FOR ALL ORDINARY HAZARD GROUP I AND II AREAS. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")

E. CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:
THE NEW 6" UNDERGROUND MAIN EXTENDS FROM THE EXISTING SITE SUPPLY MAIN TO THE NEW BUILDING WITH A DDCVA PRIOR TO THE FIRE SPRINKLER RISER. A 4" UNDERGROUND MAN EXTENDS FROM THE RISER TO THE FIRE DEPARTMENT CONNECTION ON SITE.

F. FLOW TEST DATA:
FLOW TEST RESULTS PERFORMED ON, 05-31-2024,; REFER TO FIRE HYDRANT FLOW TEST DATA THIS SHEET FOR CLARIFICATION.

G. VALVE AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:
ALL PADDLE TYPE WATER FLOW INDICATORS SHALL HAVE A FLOW SWITCH. ALL VALVES CONTROLLING THE FIRE SPRINKLER SYSTEMS, INCLUDING BACKFLOW DEVICE, SHALL HAVE TAMPER SWITCHES. ALL ELECTRICAL DEVICES SHALL BE MONITORED BY CENTRAL STATION OR SIMILAR AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION AND SHALL BE IN COMPLIANCE WITH NFPA 72.

H. MICROBIAL INDUCED CORROSION (MIC):
CONTRACTOR SHALL ORDER AND OBTAIN A TEST LAB REPORT INDICATING THAT NO MIC IS PRESENT IN THE SYSTEM.

PROVIDE WITH TYCO TAV-W AUTOMATIC AIR VENT. LOCATE AT HIGHEST REMOTE PART OF SPRINKLER SYSTEM.

I. BACKFLOW PREVENTION AND METERING SPECIFICATIONS:
THE BACKFLOW PREVENTION AND METERING EQUIPMENT SHALL BE INSTALLED BY A MINIMUM OF A CLASS V CONTRACTOR AS LICENSED BY THE STATE FIRE MARSHAL. THE MAXIMUM ALLOWABLE PRESSURE LOSS ACROSS THE DEVICE SHALL BE 5 PSI AT SYSTEM DEMAND.

EXISTING BUILDING SERVED BY EXISTING FIRE SERVICE WITH EXISTING BACKFLOW PREVENTION. CONTRACTOR SHALL FIELD VERIFY EXISTING AS REQUIRED TO PERFORM HYDRAULIC CALCULATIONS.

J. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:
ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS SHALL BE FM APPROVED AND UL LISTED.

K. FIRE PUMP REQUIREMENTS:
FIRE PUMP SYSTEM WILL NOT BE REQUIRED.

L. WATER STORAGE TANK:
WATER STORAGE TANK WILL NOT BE REQUIRED.

M. STORAGE OCCUPANCY REQUIREMENTS:
MISCELLANEOUS STORAGE OCCUPANCY IN ACCORDANCE WITH NFPA 13, 2019 EDITION CHAPTER 4, WITH STORAGE BELOW 8'-0" FOR O.H.1 AND 12'-0" FOR O.H.2.

OWNER'S INFORMATION CERTIFICATE AS DEPICTED IN NFPA 13 FIGURE A.27.1(b) SHALL BE PROVIDE BY OWNER FOR AHJ REVIEW AND VERIFICATION OF ANY POSSIBLE STORAGE.

FIRE PROTECTION GENERAL NOTES:

1. THE FIRE PROTECTION SYSTEM SHOWN REPRESENT THE DESIGN INTENT OF THE ENGINEER OF THE RECORD IN ACCORDANCE WITH STATE REGULATION 61G15-32. CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS AND ASSOCIATED HYDRAULIC CALCULATIONS PER DESIGN CRITERIA PROVIDED BY THE ENGINEER OF THE RECORD.
2. DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
   - FLORIDA FIRE PREVENTION CODE 8TH EDITION
   - NFPA 13, 2019 EDITION
   - NFPA 24, 2019 EDITION
   - NFPA 25, 2020 EDITION
3. ALL HANGERS & MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 13 STANDARDS.
4. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE APPROVED BY NFPA-13. ALL HANGERS ON 4" PIPE AND LARGER IS TO BE CLEVIS TYPE HANGERS. POWDER DRIVEN STUDS SHALL NOT BE PERMITTED. ALL HANGERS SHALL BE U.L./F.M. APPROVED.
5. FIRE PROTECTION CONTRACTOR SHALL UTILIZE ONLY U.L. LISTED AND FM APPROVED MATERIALS AND EQUIPMENT THROUGHOUT THE FIRE SPRINKLER SYSTEM.
6. ALL YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND FM APPROVED. THE YARD UNDERGROUND SERVICE LINE SHALL BE TYPE DR-14, C900, CPVC PIPE. INTERIOR MAIN PIPING, 2-1/2" AND LARGER, SHALL BE SCHEDULE 10 BLACK STEEL, WITH GROOVED END FITTINGS AND WELDED BRANCH LINE OUTLETS. BRANCH LINE PIPING, 2" AND SMALLER, SHALL BE SCHEDULE 10 BLACK STEEL WITH GROOVED END FITTINGS AND WELDED OUTLETS AND/ OR SCHEDULE 40 WITH THREADED ENDS. SPRIGS, ARM-OVERS AND DROPS SHALL BE SCHEDULE 40 STEEL WITH THREADED ENDS. ALL PIPING AND FITTINGS EXPOSED TO THE OUTSIDE ELEMENTS OR CORROSIVE ENVIRONMENTS SHALL BE GALVANIZED MATCHING THE CRITERIA ABOVE.
7. ALL METAL HANGERS, SUPPORTS, THREADED ROD, ETC. EXPOSED TO THE OUTSIDE ELEMENTS OR CORROSIVE ENVIRONMENTS SHALL BE HOT DIPPED GALVANIZED.
8. ALL UNDERGROUND PIPING SHALL BE ADEQUATELY SUPPORTED. ALL UNDERGROUND PIPING SHALL BE BURIED AT LEAST 12 INCHES BELOW THE FROST LINE FOR THE LOCALITY OR A MINIMUM OF 36 INCHES BELOW FINISH GRADE IF FROST IS NOT APPLICABLE.
9. SPRINKLER SYSTEMS SHALL HAVE AN UNDERGROUND FLUSH COMPLETED AT THE TIME OF HYDROSTATIC TEST. FLUSHING SHALL BE COMPLETED PRIOR TO CONNECTING THE UNDERGROUND PIPING TO THE OVERHEAD PIPING.
10. SPRINKLER SYSTEMS SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 200 PSI OR 50 PSI IN EXCESS OF NORMAL WORKING PRESSURE WHEN NORMAL WORKING PRESSURE EXCEEDS 150 PSI.
11. SUITABLY PROTECT ALL EQUIPMENT FURNISHED DURING CONSTRUCTION ALL RUBBISH OCCASIONED BY THIS INSTALLATION SHALL BE PERIODICALLY REMOVED FROM THE PREMISES AND ALL EXPOSED WORK SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL ACCEPTANCE. RESTORE ANY DAMAGED SURFACES AND ITEMS TO "LIKE NEW" CONDITION BEFORE A REQUEST FOR FINAL ACCEPTANCE.
12. UNTIL SYSTEM IS COMPLETED, TESTED AND ACCEPTED, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF LEAKS, AND ACCIDENTAL BREAKS.
13. CONTRACTOR SHALL GUARANTEE IN WRITING, HIS RESPONSIBILITY FOR DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FORM THE DATE OF FINAL ACCEPTANCE ISSUED BY THE ARCHITECT AND CORRECT ANY DEFICIENCIES, LABOR AND MATERIALS, WITHOUT ADDITIONAL COST TO OWNER.
14. ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED. COORDINATE ALL PAINTING REQUIREMENTS/ COLORS WITH ARCHITECTURAL DRAWINGS.
15. FIRE SPRINKLER CONTRACTOR SHALL NOT ROUTE ANY FIRE PROTECTION PIPING ABOVE ELECTRICAL PANELS. OFFSET OR REROUTE AS REQUIRED.
16. ALL SPRINKLER HEADS EXPOSED TO THE OUTSIDE ELEMENTS SHALL BE UL LISTED CORROSION RESISTANT.
17. ALL SPRINKLER HEADS IN FREEZE AREAS SHALL BE DRY TYPE.
18. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK OR OBSTRUCTION EQUAL TO AND EXCEEDING 4' IN WIDTH.
19. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES.
20. ALIGN ALL SPRINKLER HEADS WITH CEILING LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
21. PROVIDE SPRINKLER HEAD GUARDS THAT ATTACH ONLY TO THE PIPE AND NOT THE FIRE SPRINKLER HEAD (SPRINKGAURD OR APPROVED EQUAL) FOR ALL HEADS LOCATED WITHIN MECHANICAL ROOMS, ELECTRICAL ROOMS, ELEVATOR PITS, BENEATH STAIRS, STORAGE ROOMS OR LOCATED BELOW 7'-6"
22. FIRE SPRINKLER HEADS IN EXPOSED OBSTRUCTED CONSTRUCTION AREAS (AREAS CONTAINING STRUCTURAL BEAMS) SHALL BE INSTALLED BELOW THE STRUCTURAL MEMBERS UP TO A MAXIMUM OF 22" BELOW THE CEILING AVOIDING OBSTRUCTION TO DISCHARGE IN CONFORMANCE WITH NFPA 13, 2019 EDITION SECTION 10.2.6.1.2 (1), (2), AND (4).
23. FIRE PROTECTION CONTRACTOR SHALL COMPLY WITH NFPA 13, 2019 EDITION TABLES 10.2.7.1.2 (A), (B), & (C) TO AVOID OBSTRUCTION TO SPRINKLER HEAD DISCHARGE. FIRE PROTECTION CONTRACTOR SHALL THOROUGHLY COORDINATE FIRE SPRINKLER HEAD PLACEMENTS WITH ALL STRUCTURAL/ ARCHITECTURAL OBSTRUCTIONS.
24. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF SPRINKLER SYSTEMS. AT LEAST TWELVE SPARE SPRINKLER HEADS OF EACH TYPE, TEMPERATURE RATING, AND ORIFICE SIZE USED IN THE SYSTEMS SHALL BE KEPT IN THE PREMISES. REPLACEMENT SPRINKLERS SHALL HAVE THE SAME OPERATING CHARACTERISTICS AS THE SPRINKLER HEADS BEING REPLACED.
25. PROVIDE ADEQUATE DRAIN PER NFPA - 13.
26. EACH SPRINKLER SYSTEM SHALL HAVE A DRAIN AND TEST CONNECTION WITH A VALVE ON THE SYSTEM SIDE OF THE CONTROL VALVE.
27. WATER FLOW TEST CONNECTIONS SHALL BE PROVIDED AT LOCATIONS THAT ALLOW FLOW TESTING OF WATER SUPPLIES, CONNECTIONS, AND ALARM MECHANISMS.
28. PROVIDE FLUSHING CONNECTIONS AT REMOTE END OF ALL CROSS MAINS AND AT ALL LOW ENDS. ROUTE ALL DRAIN PIPING TO THE GROUND LEVEL AND DISCHARGE TO THE EXTERIOR OF THE BUILDING OR STORM DRAINAGE SYSTEM.
29. SPRINKLER ZONES WITH DEAD END MAINS OR MORE THAN ONE REMOTE END, PROVIDE WITH INSPECTORS TEST AND DRAINS TO EACH END MAIN AND REMOTE END. ROUTE ALL DRAIN PIPING TO THE GROUND LEVEL AND DISCHARGE TO THE EXTERIOR OF THE BUILDING OR STORM DRAINAGE SYSTEM.
30. FIRE PROTECTION CONTRACTOR SHALL THOROUGHLY COORDINATE ALL HEADS, HANGERS, PIPING AND ALL OTHER ASSOCIATED MATERIAL LOCATIONS WITH MECHANICAL, PLUMBING, ELECTRICAL AND ALL STRUCTURAL OBSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS.
31. REFER TO ARCHITECTURAL REFLECTED CEILING AND ELECTRICAL LIGHTING DRAWINGS FOR CEILING DESCRIPTIONS AND HEIGHTS.
32. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATION ITS FUNCTION.
33. ALARMS SHALL BE OF SUFFICIENT INTENSITY TO BE CLEARLY AUDIBLE IN OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
34. (2) 2-1/2" FIRE DEPARTMENT CONNECTIONS SHALL BE PROVIDED.
35. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS. FIRE STOPPING SHALL BE OF U.L. LISTED ASSEMBLY.
36. NOT ALL PIPING, VALVES AND APPURTENANCES ARE SHOWN ON PLANS. REFER TO PIPING RISER DIAGRAMS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
37. THE SYSTEM SHALL BE DESIGNED AND HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13 AND SPRINKLERS MANUFACTURER REQUIREMENTS.
38. ALL WIRING OF FLOW SWITCHES AND ANY FIRE PROTECTION DEVICES IS DONE BY ELECTRICAL SUBCONTRACTOR.
39. SEPARATE FIRE SPRINKLER PERMIT DRAWINGS SHALL BE SUBMITTED BY INSTALLING CONTRACTOR FOR REVIEW.

FIRE PROTECTION DATA

LIGHT HAZARD OCCUPANCY CLASSIFICATION (L.H.)	
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	30 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 225 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	100 GPM

ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION (O.H.1)	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	60 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 130 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	250 GPM

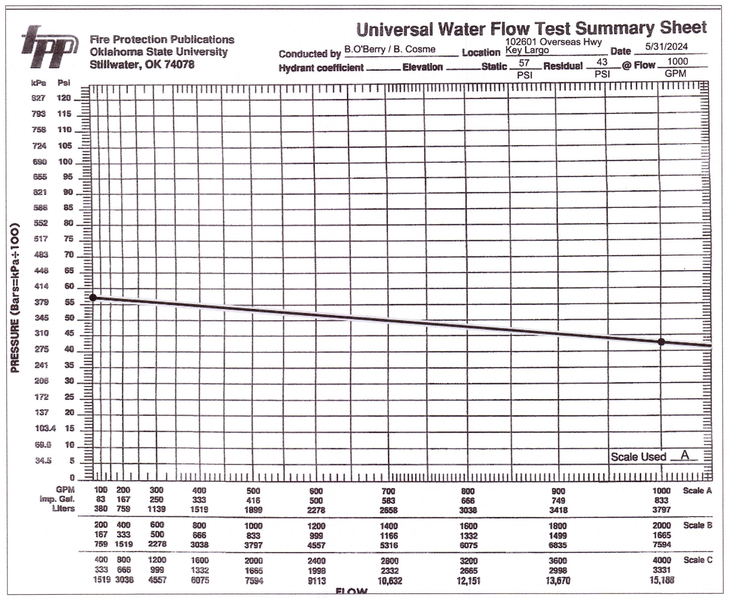
ORDINARY HAZARD GROUP II OCCUPANCY CLASSIFICATION (O.H.2)	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP II
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.20 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	60 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 130 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	250 GPM

UNDERGROUND GENERAL NOTES

1. ALL UNDERGROUND SHALL BE INSTALLED BY A STATE OF FLORIDA MINIMUM CLASS 5 LICENSED UNDERGROUND CONTRACTOR.
2. ALL UNDERGROUND PIPING TO BE C-900 PVC CLASS 200 DR-14
3. ALL PVC PIPE TO BE MARKED WIDETECTABLE UNDERGROUND MARKING TAPE.
4. ALL ABOVE GROUND STEEL PIPING TO BE PAINTED FOR CORROSION PROTECTION.
5. ALL MATERIALS, TESTING, METHOD OF RESTRAINT & INSPECTION SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 & 24.
6. FITTING RESTRAINTS, THRUST BLOCKS AND RODDING SHALL CONFORM TO NFPA 24.
7. MINIMUM BURY DEPTH SHALL NOT BE LESS THAN 3'-0"
8. ALL WATER LINES FOR FIRE SPRINKLER SYSTEMS SHALL BE TESTED AT 200 PSI FOR TWO (2) HOURS MINIMUM.
9. ALL EXTERIOR MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EXPOSURE.
10. ALL WIRING BY OTHERS.
11. UNDERGROUND PIPING SHALL BE FLUSHED AS PER NFPA 24 BEFORE CONNECTING TO THE OVERHEADS FIRE SPRINKLER SYSTEM PIPING.
12. COMPLY WITH ALL LOCAL CODE REQUIREMENTS PRIOR CONNECTION TO THE FIRE SERVICE WATER SYSTEM.

ABBREVIATIONS

ABV	ABOVE
APPROX	APPROXIMATELY
ASP	AUTOMATIC STANDPIPE
ASSY	ASSEMBLY
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
CONT	CONTINUATION
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
EL	ELEVATION
FCA	FLOOR CONTROL ASSEMBLY
PRFCA	PRESSURE REDUCING FLOOR CONTROL ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHV	2-1/2" FIRE HOSE VALVE
FHVC	2-1/2" FIRE HOSE VALVE IN CABINET
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
POC	POINT OF CONNECTION
PRFHV	PRESSURE REDUCING HOSE VALVE
PRFHVC	PRESSURE REDUCING HOSE VALVE IN CABINET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RM	ROOM
SPCA	STANDPIPE CONTROL ASSEMBLY
SPR	SPRINKLER
TYP	TYPICAL
UG	UNDERGROUND
RN	RISER NIPPLE



FIRE HYDRANT FLOW TEST DATA

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MONROE COUNTY
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GW K2M OCL ASSOCIATES, INC
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SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: KB
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REVIEWED BY: RC

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FL LIC. NO. 97745

JOHN PENNEKAMP

Sheet Title: GENERAL NOTES - FIRE PROTECTION

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: F001

PLOTTED: 12/9/2025 9:05:01 AM

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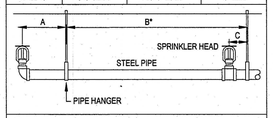
NFPA 13 TABLE 17.4.2.1(a) AND SECTIONS 17.4.3.3 AND 17.4.3.4.1

NFPA SPACING REQUIREMENTS HANGER LOCATION DETAIL

PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/2"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



* MAXIMUM HANGER SPACING FOR STEEL PIPE

NOTES:

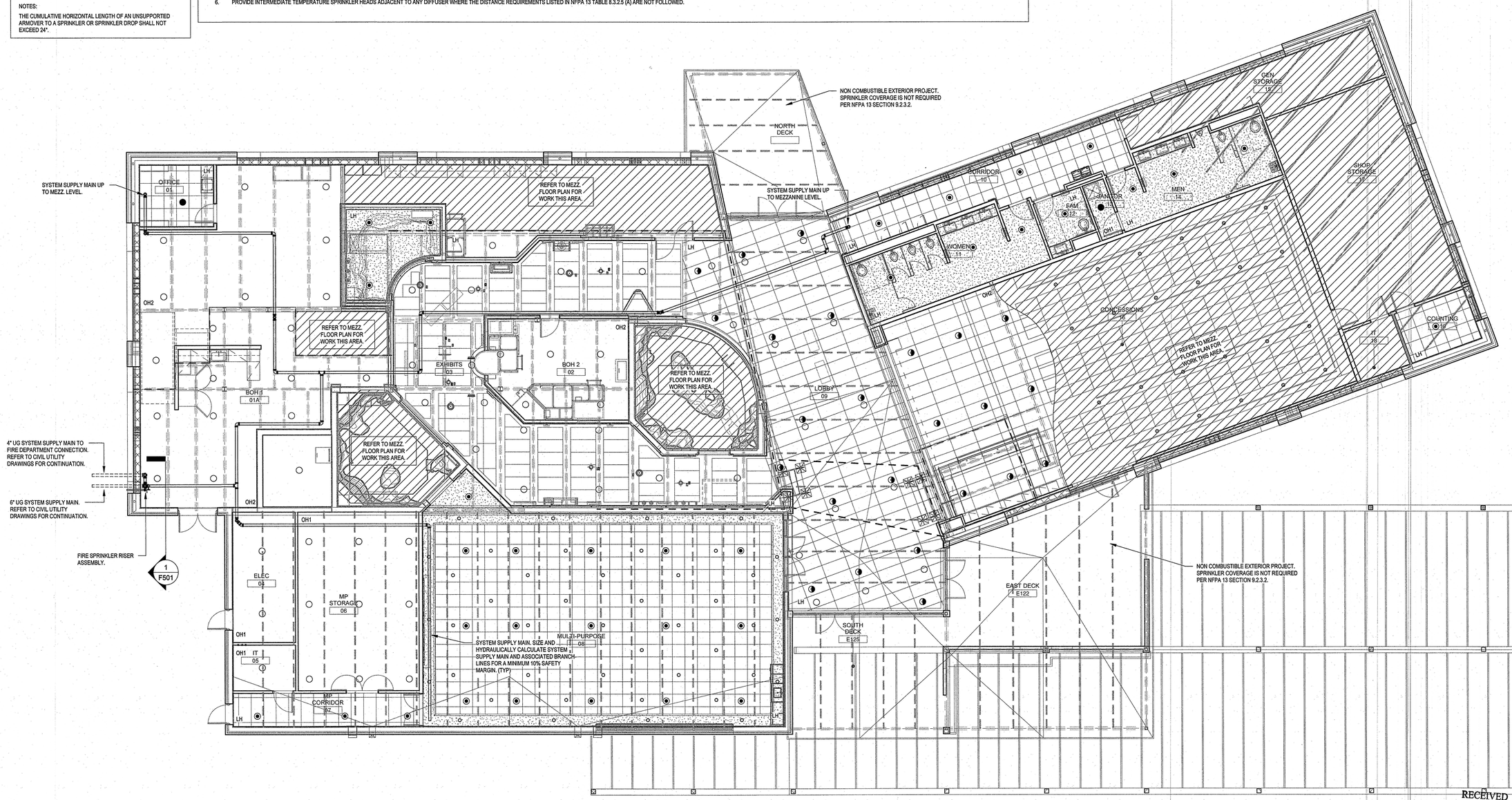
THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER OR SPRINKLER DROP SHALL NOT EXCEED 24".

FIRE SPRINKLER HEAD SCHEDULE

SYMBOL	TEMP	RESPONSE	HAZARD	K-FACTOR	FINISH	MODEL/ SIN	STYLE	PLATE	SIZE	MANUFACTURER
●	155°	QUICK	LH/ OH	5.6	ENT	VK302	STANDARD COVERAGE PENDENT	2 PIECE	1/2"	VIKING
◉	155°	QUICK	LH/ OH	5.6	ENT	VK462	STANDARD COVERAGE CONCEALED PENDENT	WHITE CONCEALED PLATE	1/2"	VIKING
◓	155°	QUICK	LH/ OH	5.6	ENT	VK462	STANDARD COVERAGE CONCEALED PENDENT	CHROME CONCEALED PLATE	1/2"	VIKING
○	155°	QUICK	LH/ OH	5.6	ENT	VK300	STANDARD COVERAGE UPRIGHT	NONE	1/2"	VIKING

NOTES:

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL CONCEALED PLATE COLORS WITH ARCHITECT/ ARCHITECTURAL DRAWINGS. FINAL PLATE COLORS AND CUSTOM COLORS FOR EACH AREA AND INDIVIDUAL ROOMS SHALL BE APPROVED BY ARCHITECT PRIOR TO ORDERING.
2. ALL SPRINKLERS IN THE IN ALL STORAGE ROOM, MECHANICAL ROOMS, ELECTRICAL ROOMS AND UNDERNEATH STAIRS SHALL BE PROVIDED WITH IN LINE SPRINKLER HEAD GUARD - SPRINKGUARD ITEM # 201040.
3. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES UNLESS OTHERWISE NOTED.
4. ALIGN ALL SPRINKLER HEADS WITH LIGHTING AND DIFFUSERS.
5. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK EQUAL TO AND EXCEEDING 4' IN WIDTH. COORDINATE FINAL DUCT LOCATIONS WITH INSTALLING MECHANICAL CONTRACTOR.
6. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS ADJACENT TO ANY DIFFUSER WHERE THE DISTANCE REQUIREMENTS LISTED IN NFPA 13 TABLE 8.3.2.5 (A) ARE NOT FOLLOWED.



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1 FIRST FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

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Bureau of Design and Construction
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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: KB
DRAWN BY: KB
REVIEWED BY: RC

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JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN - FIRE PROTECTION

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: F101

PLOTTED: 12/9/2025 9:05:10 AM

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NFPA 13 TABLE 17.4.2.1(a) AND SECTIONS 17.4.3.3 AND 17.4.3.4.1

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PIPE SIZE	A	B*	C
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1-1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
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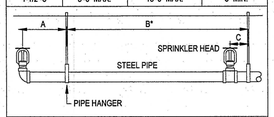


* MAXIMUM HANGER SPACING FOR STEEL PIPE

NOTES:

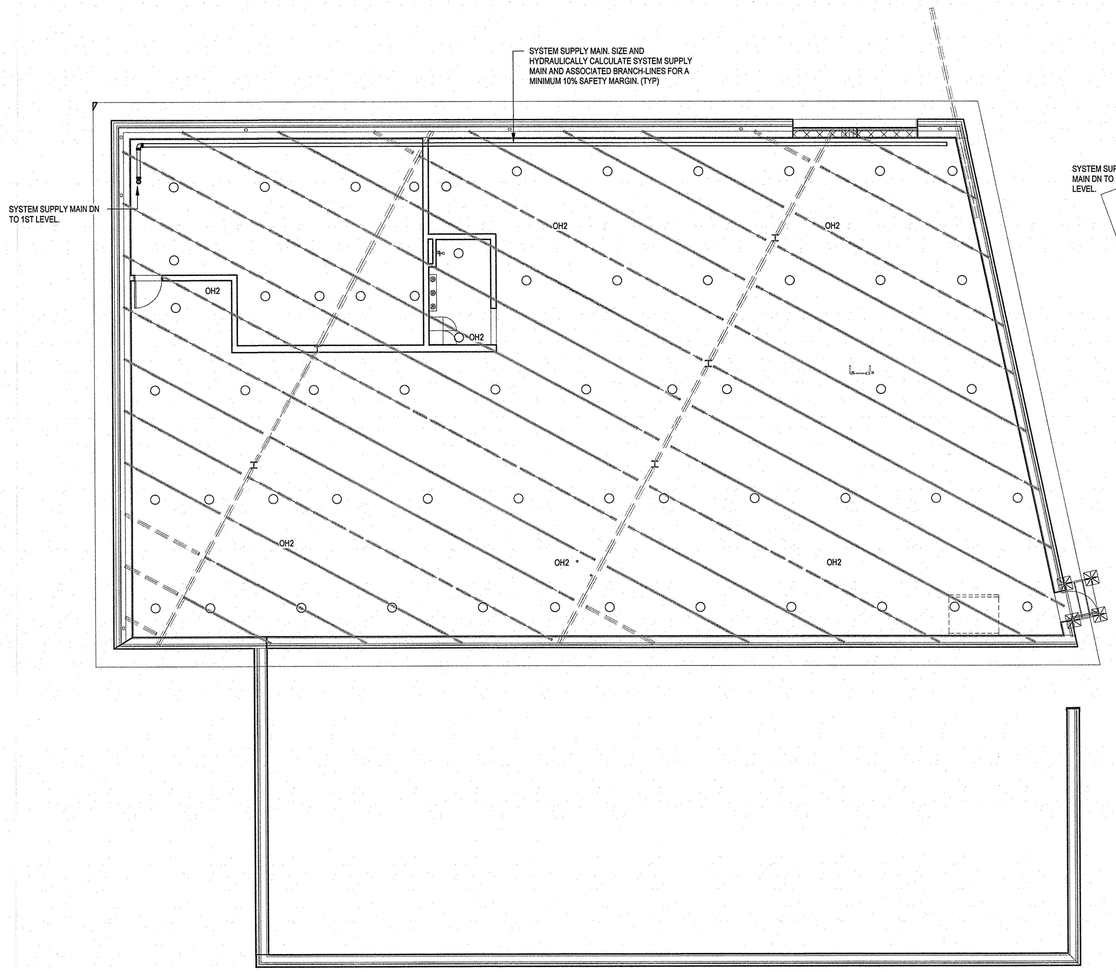
THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER OR SPRINKLER DROP SHALL NOT EXCEED 24".

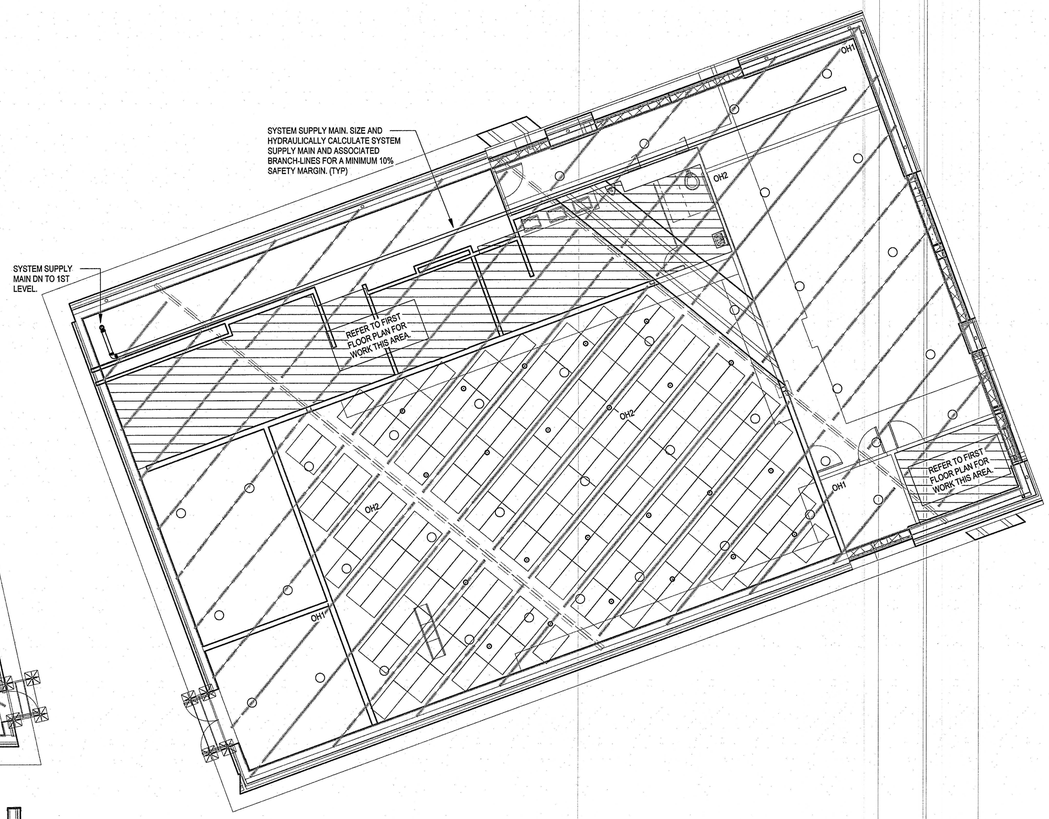
FIRE SPRINKLER HEAD SCHEDULE

SYMBOL	TEMP	RESPONSE	HAZARD	K-FACTOR	FINISH	MODEL/ SIN	STYLE	PLATE	SIZE	MANUFACTURER
●	155°	QUICK	LH/ OH	5.6	ENT	VK302	STANDARD COVERAGE PENDENT	2 PIECE	1/2"	VIKING
○	155°	QUICK	LH/ OH	5.6	ENT	VK300	STANDARD COVERAGE UPRIGHT	NONE	1/2"	VIKING

NOTES:

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL CONCEALED PLATE COLORS WITH ARCHITECT/ ARCHITECTURAL DRAWINGS. FINAL PLATE COLORS AND CUSTOM COLORS FOR EACH AREA AND INDIVIDUAL ROOMS SHALL BE APPROVED BY ARCHITECT PRIOR TO ORDERING.
2. ALL SPRINKLERS IN THE IN ALL STORAGE ROOM, MECHANICAL ROOMS, ELECTRICAL ROOMS AND UNDERNEATH STAIRS SHALL BE PROVIDED WITH IN LINE SPRINKLER HEAD GUARD - SPRINKGUARD ITEM # 201040.
3. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES UNLESS OTHERWISE NOTED.
4. ALIGN ALL SPRINKLER HEADS WITH LIGHTING AND DIFFUSERS.
5. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK EQUAL TO AND EXCEEDING 4' IN WIDTH. COORDINATE FINAL DUCT LOCATIONS WITH INSTALLING MECHANICAL CONTRACTOR.
6. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS ADJACENT TO ANY DIFFUSER WHERE THE DISTANCE REQUIREMENTS LISTED IN NFPA 13 TABLE 8.3.2.5 (A) ARE NOT FOLLOWED.





1 MEZZANINE FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

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GW K2M GWO Kimley»Horn — CURTIS + HODDER ARCHITECTS

OCI ASSOCIATES, INC

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: KB
DRAWN BY: KB
REVIEWED BY: RC

ISSUE DATE: 06.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: MEZZANINE FLOOR PLAN - FIRE PROTECTION

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: F102

PLOTTED: 12/9/2025 9:05:25 AM

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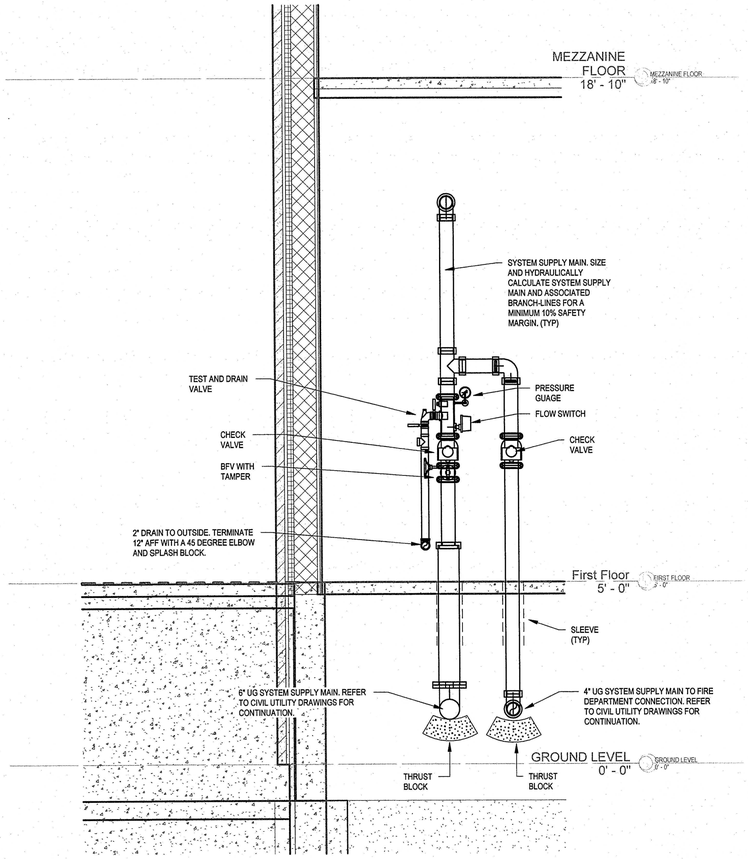
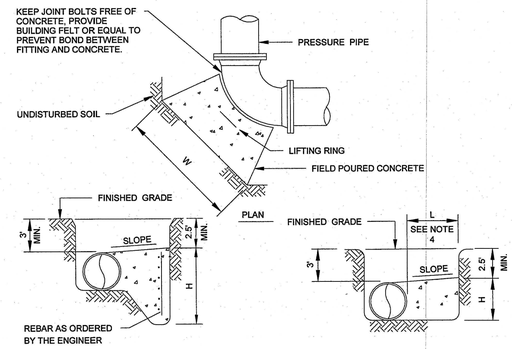


1 FIRE SPRINKLER RISER ASSEMBLY
1/2" = 1'-0"



PIPE SIZE INCH	DEFLECTION ANGLE									
	11-1/4°		22-1/2°		45°		TEE/PLUG		90°	
	THRUST BLOCK DIMINSIONS - FEET									
	H	W	H	W	H	W	H	W	H	W
6	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	2'-6"	1'-6"	3'-0"	2'-0"	3'-6"
8	1'-0"	1'-6"	1'-6"	2'-6"	2'-0"	3'-6"	2.5	3'-6"	3'-0"	4'-0"
10	1'-0"	2'-0"	1'-6"	3'-0"	2'-6"	4'-0"	3'-0"	4'-6"	3'-6"	5'-0"
12	1'-6"	2'-6"	2'-6"	3'-6"	3'-0"	5'-0"	3'-6"	5'-6"	4'-0"	6'-6"
16	2'-6"	4'-0"	3'-6"	5'-6"	5'-0"	7'-0"	5'-6"	8'-0"	6'-6"	9'-0"
20	3'-0"	5'-6"	4,5	6'-6"	6'-0"	8'-6"	6'-6"	9'-6"	7,5	11'-0"
24	3'-6"	6'-0"	5'-0"	8'-0"	7'-0"	9'-6"	7'-6"	11'-6"	9'-0"	12'-6"

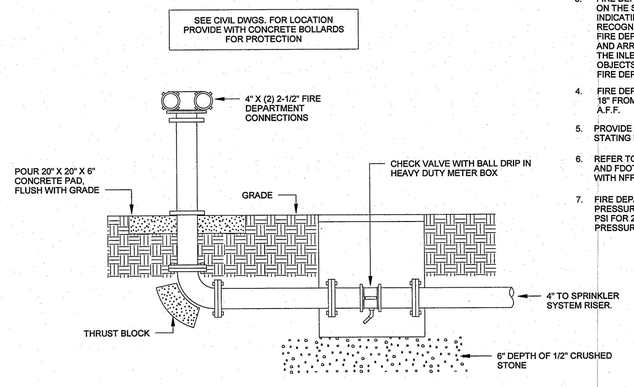
NOTES:

1. TEST PRESSURE FOR 6" THROUGH 12" IS 100 psi.
2. TEST PRESSURE FOR 16" THROUGH 24" IS 150 psi.
3. THRUST BLOCKS ARE DESIGNED FOR A MINIMUM 3' OF COVER OVER THE PIPE. IF LESS COVER EXISTS, BLOCKS SHALL BE ENLARGED AS DIRECTED BY THE ENGINEER.
4. L = 3' MAXIMUM FOR ROADWAYS - POUR TO UNDISTURBED SOIL.

2 THRUST BLOCK DETAIL
N.T.S.

FDC GENERAL NOTES

1. FIRE DEPARTMENT CONNECTION SHALL HAVE RAISED OR ENGRAVED 1" LETTERS STATING "AUTOSPRK" ON FITTING. SEE CIVIL FOR FDC REGULATORY TRAFFIC SIGN.
2. PROVIDE FIRE DEPARTMENT CONNECTION WITH A MINIMUM CLEARANCE OF 7-1/2' TO THE FRONT AND TO THE SIDES.
3. FIRE DEPARTMENT CONNECTIONS (FDC) SHALL BE LOCATED ON THE STREET SIDE OF BUILDINGS, FULLY VISIBLE, A SIGN INDICATING WHAT BUILDING(S) THEY PROTECT AND RECOGNIZABLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT ACCESSIBILITY, AND SHALL BE LOCATED AND ARRANGED SO THAT HOSE LINES CANBE ATTACHED TO THE INLETS WITHOUT INTERFERENCE FROMNEARBY OBJECTS, INCLUDING BUILDINGS, FENCES, POST, OR OTHER FIRE DEPARTMENT CONNECTIONS.
4. FIRE DEPARTMENT CONNECTION SHALL NOT BE LESS THAN 18" FROM A.F.F. AND NOT EXCEED MORE THAN 36" FROM A.F.F.
5. PROVIDE SIGN 12" WIDE X 18" HIGH MOUNTED 7'-0" A.F.F. STATING NO PARKING - FIRE DEPARTMENT CONNECTION.
6. REFER TO CIVIL SITE DRAWINGS FOR REQUIRED BUILDING # AND FDOT REGULATORY SIGNAGE. SIGNAGE SHALL COMPLY WITH NFPA 24, 2019 EDITION.
7. FIRE DEPARTMENT CONNECTION MUST BE PRESSURE TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS WITH A ZERO DROP IN PRESSURE.



3 FIRE DEPARTMENT CONECTION DETAIL
N.T.S.

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21088

DESIGNER: KB
DRAWN BY: KB
REVIEWED BY: RC
Consultant:

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FLORIDA LICENSE NO.
PE 90170
FLORIDA

JOHN PENNEKAMP

Sheet Title: DETAILS - FIRE PROTECTION

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: F501

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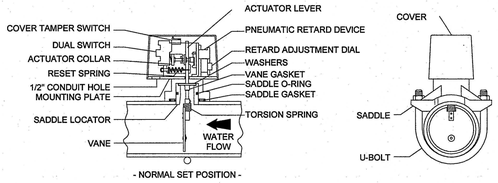
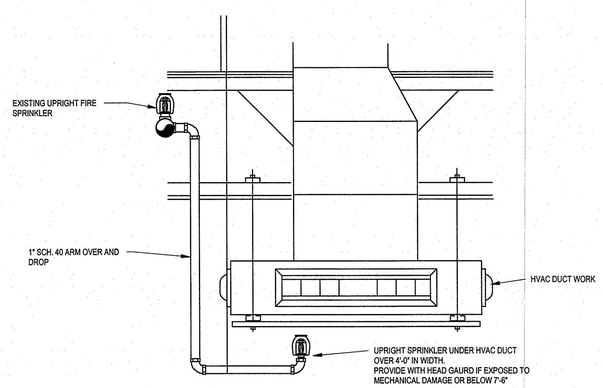


1 FLOW SWITCH DETAIL
N.T.S.

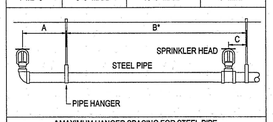


2 SPRINKLER UNDER DUCT DETAIL
1/4" = 1'-0"

NFPA 13 TABLE 17.4.2.1(a) AND SECTIONS 17.4.3.3 AND 17.4.3.4.1

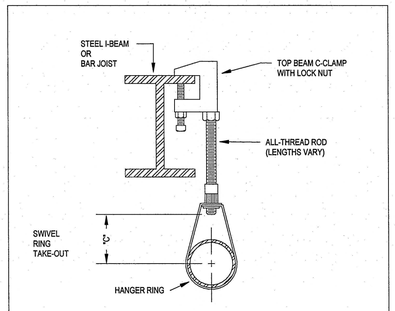
NFPA SPACING REQUIREMENTS HANGER LOCATION DETAIL

PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/2"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



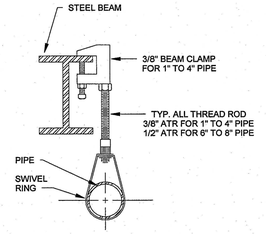
* MAXIMUM HANGER SPACING FOR STEEL PIPE

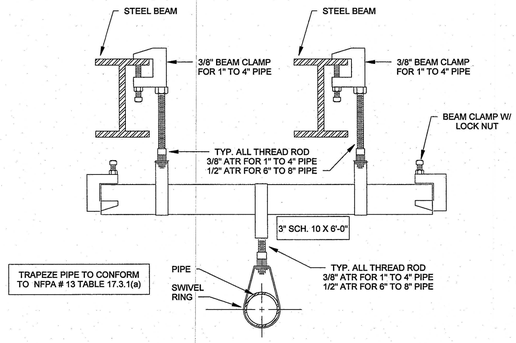
NOTES:
THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER OR SPRINKLER DROP SHALL NOT EXCEED 24".



Pipe Size	Rod Size		Min. 'C' Dim.	Max. 'C' Dim.
3/4"	3/8"		1/2"	1 5/8"
1"			5/8"	1 3/4"
1 1/4"			13/16"	1 7/8"
1 1/2"			15/16"	2"
2"			1 3/16"	2 3/8"
2 1/2"			1 7/16"	2 3/4"
3"			1 3/4"	3 1/4"
3 1/2"			2"	3 5/8"
4"			2 1/4"	3 7/8"
5"	1/2"		2 3/4"	4 3/4"
6"			3 5/16"	5 1/2"
8"			4 5/16"	6 3/4"

3 HANGER LOCATION DETAIL
N.T.S.

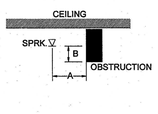




4 HANGER PIPE SUPPORT DETAIL
N.T.S.

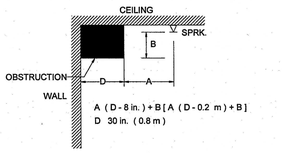
"STANDARD COVERAGE HEADS "
POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE
NFPA 13 (2019 EDITION) 10.2.7.1.2(a)

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION(A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (B)
LESS THAN 1'-0"	0"
1'-0" TO TO LESS THAN 1'-6"	2 1/2"
1'-6" TO LESS THAN 2'-0"	3 1/2"
2'-0" TO LESS THAN 2'-6"	5 1/2"
2'-6" TO LESS THAN 3'-0"	7 1/2"
3'-0" TO LESS THAN 3'-6"	9 1/2"
3'-6" TO LESS THAN 4'-0"	12"
4'-0" TO LESS THAN 4'-6"	14"
4'-6" TO LESS THAN 5'-0"	16 1/2"
5'-0" AND GREATER	18"



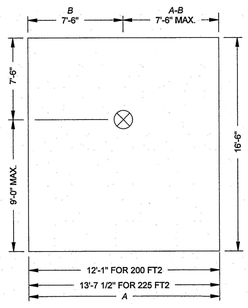
ELEVATION VIEW
FIGURE 10.2.7.1.2 (a)

OBSTRUCTIONS AGAINST WALLS
NFPA 13 (2019 EDITION) 10.2.7.1.2(b)



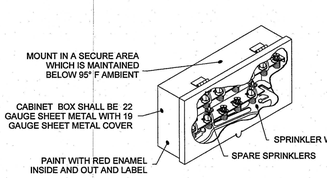
ELEVATION VIEW
FIGURE 10.2.7.1.2 (b)

5 OBSTRUCTION DETAIL
N.T.S.



NFPA 13 2019 EDITION FIGURE A.10.2.5.2.3(a)

6 SMALL ROOM RULE DETAIL
N.T.S.



FACILITIES HAVING UNDER 300 SPRINKLERS - NO FEWER THAN 6 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING 300 - 1000 SPRINKLERS - NO FEWER THAN 12 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING OVER 1000 SPRINKLERS - NO FEWER THAN 24 SPARE SPRINKLERS IN STOCK

7 SPARE HEAD CABINET DETAIL
N.T.S.

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GARCIA-WOODS ARCHITECTS Kimley»Horn roto

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DRAWN BY: KB
REVIEWED BY: RC
Consultant:

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: DETAILS - FIRE PROTECTION

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: F502

PLOTTED: 12/9/2025 9:05:38 AM

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System No. C-AJ-1044
March 15, 2007
F Ratings – 2, 3, and 4 Hr (See Items 2A and 4)
T Rating – 0 Hr
L Rating At Ambient – 2 CFMs/sq ft
L Rating At 400 F – less than 1 CFM/sq ft
W Rating – Class 1 (See Item 4)

SECTION A-A

1. **Floor or Wall Assembly** – Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in (152 mm) thick UL Classified hollow core **Precast Concrete Units***. Where floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified **Concrete Blocks*.** Max diam of opening in solid lightweight or normal weight concrete floor as 52 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm)

See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve** – (Optional, Not Shown) – Nom 16 in. (406 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 16 in. (406 mm) diam (or smaller) min 0.028 (0.71 mm) thick galvanized sheet steel sleeve cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 0 in. (point contact). Max annular space to be as shown in the table in Item 4. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe** – Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   D. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   E. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   F. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Packing Material** – Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

3A. **Forming Material*** – As an alternate to the packing material in Item 3, nom 4 in. (102 mm) wide strips of nom 1/2 in (13 mm) thick compressible material to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. As an option, the strips of min 1/2 in. (13mm) thick compressible mat may be folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 2 in. (51 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.

   3M COMPANY – Fire Barrier Packing Material

System No. C-AJ-1044 *continued*

4. **Fill, Void or Cavity Material*** – **Caulk, Sealant** – Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns In. (mm)	Nom Pipe Tube or Conduit Diam In. (mm)	Max Annular Space In. (mm)	Min Caulk Thkns In. (mm)	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4(6)(a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25)(b)	4

(a) Min 2 in. (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.
(b) Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY – CP 25WB+ or FB-3000 WT.
(Note: W Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Marking

System No. W-L-1001
June 15, 2005
F Ratings – 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings – 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft

SECTION A-A

1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U3500 or U4000 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs** – Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U3500 or U4000 Series Design in the UL Fire Resistance Directory. Max diam of opening is 24 in. (660 mm).

2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe** – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
   D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
   E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product* – Flexible Metal Piping** – The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Flutic covering on piping may or may not be removed on both sides of floor or wall assembly.
         OMEGA FLEX INC
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Flutic covering on piping may or may not be removed on both sides of floor or wall assembly.
         TITEFLEX CORP
         A HUNDY CO
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Flutic covering on piping may or may not be removed on both sides of floor or wall assembly.
         WARD MFG INC

3. **Fill, Void or Cavity Material*** – **Caulk or Sealant** – Min 5/8 -1-1/4 (-7/8 and 1-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly Fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the Firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY – CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

1 UL PENETRATION DETAIL
N.T.S.

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: DETAILS - FIRE PROTECTION

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: F503

PLOTTED: 12/9/2025 9:05:43 AM

12/9/2025 9:05:43 AM
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CODE REFERENCE

- FLORIDA BUILDING CODE - PLUMBING - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - FUEL GAS - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - ACCESSIBILITY - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - ENERGY CONSERVATION - 8TH EDITION (2023)

GENERAL NOTES

1. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICTS WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ARCHITECT.
3. ADVISE ARCHITECT OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC.. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATIONS BY WRITTEN ADDENDUM.
4. DEVIATIONS FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
5. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY,COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC..)
6. INSTALL EQUIPMENT, MATERIALS, ETC.. IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INTENT IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATIONS.
7. ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ARCHITECT.
8. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ARCHITECT, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
9. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
10. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ARCHITECT IN WRITING.
11. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRIC LINES. VERIFY THE LOCATION, SIZE TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
12. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, SUPPORT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
13. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED.
14. WHERE PENETRATING NEW ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC..)
16. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
17. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY, ARCHITECT, AND OWNER AS NECESSARY, WITH AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
18. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
19. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE, WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONED SUPPLIED TO THE CONTRACTOR.
20. IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS' CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.
21. ALL WORK SHOWN ON DRAWINGS (EQUIPMENT, DUCTWORK, PIPING FIXTURES, RACEWAYS, WIRING, ETC.) ARE NEW, TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
22. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATION WITH ALL TRADES WILL BE REQUIRED.
23. REFER TO DOMESTIC WATER RISER DIAGRAM FOR LOCATIONS OF ALL VALVES AND ACCESSORIES TO BE INSTALLED.
24. WATER HAMMER ARRESTORS, TRAP PRIMERS, VALVES, ETC. SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS WHERE ANY ITEM IS INSTALLED IN AN INACCESSIBLE SPACE.
25. INSULATE HOT WATER PIPING IN ACCORDANCE WITH FLORIDA ENERGY EFFICIENCY CODE.
26. METALLIC PIPING SHALL BE INSTALLED IN FIRE RATED WALL. (TYPICAL)
27. SEAL ALL PIPING PENETRATIONS WITH NON-SHRINK MASTIC.
28. DOMESTIC WATER PIPING WITHIN 5 FEET OF THE BUILDING SEWER/DRAIN PIPING IS TO BE A MINIMUM OF 12 INCHES ABOVE THE HIGHEST POINT OF THE BUILDING SEWER/DRAIN PIPING AND THE PIPE MATERIALS MUST CONFORM TO THE FLORIDA BUILDING CODE 2023 - PLUMBING.
29. PLUMBING CONTRACTOR SHALL COORDINATE UNDERGROUND PIPING WITH BUILDING FOUNDATION.
30. WHERE PIPING PENETRATES FOOTING, REFER TO STRUCTURAL DRAWINGS FOR SLEEVING METHODS.
31. WHERE INVERT ELEVATIONS ARE HIGHER ON PLUMBING DRAWINGS, PLUMBING CONTRACTOR SHALL INSTALL PIPING AS PER THE PLUMBING CONTRACT DRAWINGS AND PROVIDE A 45° DROP TO MEET THE CIVIL ENGINEERS POINT OF CONNECTION. IF ANY CONFLICTS ARISE WHERE CIVIL ENGINEERS' POINT OF CONNECTIONS ARE SHALLOWER THAN ON THE PLUMBING CONTRACT DOCUMENTS, PLUMBING CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER.
32. SUPPLY AND TRAP WRAPS SHALL BE PROVIDED AT ADA LAVATORIES AND SINKS WHERE PIPING IS EXPOSED.
33. WHERE PIPING IS NEAR ROOF ACCESS HATCH CONTRACTOR SHALL ROUTE ALL PIPING TO CLEAR ALL LADDERS AND OPENINGS.
34. COORDINATE VENT THRU ROOF WITH ALL EQUIPMENT . WHERE PIPING IS WITHIN 10'-0" OF EQUIPMENT, LOUVERS ETC. VENT THRU ROOF SHALL BE MOVED TO MAINTAIN A 10'-0" CLEARANCE OF OUTSIDE AIR OPENING.
35. P-TRAPS INSTALLED ON ALL FLOOR DRAINS SHALL BE DEEP SEAL TRAPS.
36. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR ALL PLUMBING UTILITIES AND SERVICES FOR EQUIPMENT PROVIDED BY OTHERS.
37. WATER HAMMER TO BE INSTALLED IN ALL QUICK CLOSING FIXTURES.
38. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPING INTERNALLY COATED WITH CORROSION INHIBITORS AND NONMETALLIC PIPING, THE STEEL PIPE COATING SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPING BY A TESTING LABORATORY.
39. WHEN FABRICATING STEEL PIPE FOR A COMBINATION (CPVC-STEEL) SYSTEM, THE CUTTING OIL AND LUBRICANTS CAN CAUSE PERFORMANCE DEGRADATION OF THE CPVC PIPING. CUTTING OILS AND LUBRICANTS FOUND TO BE COMPATIBLE ARE AVAILABLE AND SHALL BE USED.
40. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE THAT IS NOT INTERNALLY COATED WITH CHEMICAL CORROSION INHIBITORS, NO ADDITIONAL EVALUATIONS SHALL BE REQUIRED.
41. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE, CUTTING OILS AND LUBRICANTS USED FOR FABRICATION OF THE STEEL PIPING SHALL BE COMPATIBLE WITH THE NONMETALLIC PIPE MATERIALS.
42. FIRE-STOPPING MATERIALS INTENDED FOR USE ON NONMETALLIC PIPING PENETRATIONS SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPE MATERIALS.
43. ALL CPVC PIPING, FITTINGS AND SOLVENTS SHALL BE FROM A SINGLE MANUFACTURERS. MIXING OF MANUFACTURERS IS NOT ALLOWED OR PERMITTED.
44. CPVC PIPING INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
45. PROVIDE IDENTIFICATION (LABELING) FOR DOMESTIC ACCESSORIES HIDDEN ABOVE / BEHIND CEILING TILES AND ACCESS PANELS.

ABBREVIATIONS

AMP	AMPERES	GA	GAUGE
AC	AIR CONDITIONING	GAL	GALLONS
ACU	AIR CONDITIONING UNIT	GPH	GALLONS PER HOUR
AD	ACCESS DOOR	GPM	GALLONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	GO	GAS OUTLET
AHU	AIR HANDLING UNIT	GR	GREASE WASTE LINE
APPROX	APPROXIMATELY	GWH	GAS WATER HEATER
AP	ACCESS PANEL	H20	WATER
ARCH	ARCHITECTURAL	HB	HOSE BIBB
AUTO	AUTOMATIC	HP	HORSEPOWER
AUX	AUXILIARY	HR	HOUR
BFF	BELOW FINISHED FLOOR	HW	DOMESTIC HOT WATER
BLDG	BUILDING	HWR	DOMESTIC HOT WATER RETURN
BTU	BRITISH THERMAL UNIT	HZ	FREQUENCY
BTUH	BRITISH THERMAL UNITS PER HOUR	IN	INCH OR INCHES
BWV	BACK WATER VALVE	INSUL	INSULATION
CD	CONDENSATE DRAIN	IPS	IRON PIPE SIZE
CFM	CUBIC FEET PER MINUTE	IWH	INSTANTANEOUS WATER HEATER
CLG	CEILING	KW	KILOWATT
CO	CLEAN-OUT	L	LAVATORY
COMB	COMBINATION	LBS	POUNDS
COMPR	COMPRESSOR	LP	LIQUID PROPANE FUEL
COND	CONDENSATE OR CONDENSER	LT	LENGTH
CONT	CONTINUATION	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MB	MIXING BOX
CU FT	CUBIC FEET	MBH	THOUSANDS, BTUH
CW	DOMESTIC COLD WATER	MC	MECHANICAL CONTRACTOR
D	DRAIN LINE	MECH	MECHANICAL
DF	DRINKING FOUNTAIN	MIN	MINIMUM
DIA	DIAMETER	MS	MOP SINK
DN	DOWN	NC	NORMALLY CLOSED
DWG	DRAWING	NIC	NOT IN CONTRACT
DX	DIRECT EXPANSION	NG	NATURAL GAS
ECO	EXTERIOR CLEANOUT	NO	NORMALLY OPEN
EWC	ELECTRIC WATER COOLER	OD	OUTSIDE DIAMETER
EWH	ELECTRIC WATER HEATER	PSI	POUNDS PER SQUARE INCH
EL	ELEVATION	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRIC	R	RISE
EQ	EQUAL	RCP	RECIRCULATING PUMP (HWR)
EXP	EXPANSION	RM	ROOM
EEW	EYE WASH/SHOWER	RPM	REVOLUTIONS PER MINUTE
°F	DEGREES FAHRENHEIT	RV	RELIEF VALVE
FC	FLEXIBLE CONNECTION	S	KITCHEN SINK (DOMESTIC)
FCO	FLOOR CLEANOUT	SAN	SANITARY
FD	FLOOR DRAIN	SAU	SOUND ATTENUATION UNIT
FG	FINISHED GRADE	SCW	SOFT COLD WATER
FPS	FEET PER SECOND	SH	SHOWER
FS	FLOOR SINK	SMH	STORM MANHOLE
LP	LIQUID PROPANE	SPEC	SPECIFICATION
		ST	STORM
		TD	TRENCH DRAIN
		TDH	TOTAL DYNAMIC HEAD
		TEMP	TEMPERATURE
		TMV	THERMOSTATIC MIXING VALVE
		TYP	TYPICAL
		V	VENT LINE
		VLV	VALVE
		VTR	VENT THRU ROOF
		W/	WITH
		WC	WATER CLOSET
		WC.	WATER COLUMN
		WCO	WALL CLEANOUT
		WG	WATER GAUGE
		WH	WALL HYDRANT
		WMS	WIRE MESH SCREEN
		W/O	WITHOUT
		WB	SUPPLY BOX (CLOTHES WASHER)
		RD	ROOF DRAIN

SYMBOL LEGEND

- PIPE SECTION - SUPPLY
- PIPE SECTION - RETURN
- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DOWN
- BALL VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- BALANCING VALVE
- PLUG VALVE
- STRAINER, Y-TYPE AND BLOWOFF VALVE
- PRESSURE RELIEF VALVE (WATER)
- PRESSURE REDUCING VALVE
- VALVE IN SERVICE BOX WITH CAST IRON COVER
- SOLENOID VALVE
- FCO — FLOOR CLEANOUT
- ECO — EXTERIOR CLEANOUT
- 2-WAY ECO — EXTERIOR 2-WAY CLEANOUT
- WCO — WALL CLEANOUT
- CO — HORIZONTAL CLEANOUT
- CAPPED PIPE
- POINT OF CONNECTION OF NEW TO EXISTING
- POINT OF DISCONNECT FROM EXISTING
- T — DELTA T (TEMPERATURE DIFFERENCE
- HOT WATER RECIRCULATOR PUMP
- HOSE BIBB
- FLOOR DRAIN
- HUB DRAIN
- FLOOR SINK
- TRENCH DRAIN
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING (120°F)
- 140 — DOMESTIC HOT WATER PIPING (140°F)
- DOMESTIC HOT WATER RETURN PIPING
- VENT PIPING
- SAN — SANITARY/SEWER PIPING
- ST — STORM PIPING
- TP — TRAP PRIMER PIPING

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: GENERAL NOTES - PLUMBING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: P001

PLOTTED: 12/12/2025 10:03:16 AM

12/12/2025 10:03:16 AM
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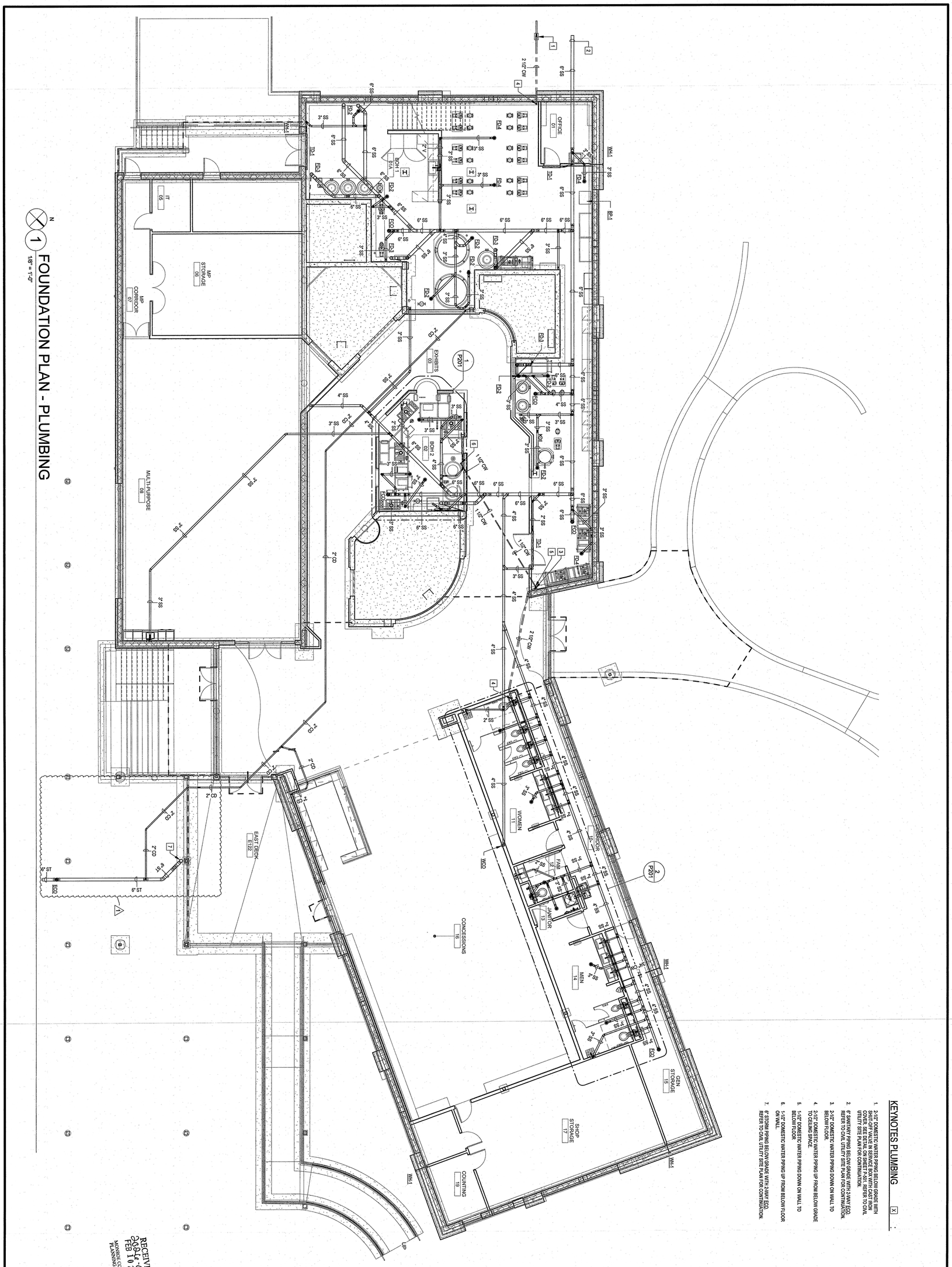

KEYNOTES PLUMBING

1. 2-1/2" DOMESTIC WATER PIPING BELOW GRADE WITH SOLVENT WELD JOINTS, INSULATION AND PLASTIC COVER. SEE DETAIL ON SHEET P-501. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION.
2. 6" SANITARY PIPING BELOW GRADE WITH 2-WAY ECO. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION.
3. 2-1/2" DOMESTIC WATER PIPING DOWN ON WALL TO FLOOR.
4. 2-1/2" DOMESTIC WATER PIPING UP FROM BELOW GRADE TO CEILING SPACE.
5. 1-1/2" DOMESTIC WATER PIPING DOWN ON WALL TO BELOW FLOOR.
6. 1-1/2" DOMESTIC WATER PIPING UP FROM BELOW FLOOR ON WALL.
7. 6" STORM PIPING BELOW GRADE WITH 2-WAY ECO. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION.

Sheet Number: P100	JOHN PENNEKAMP	
Sheet Title:	FOUNDATION PLAN - PLUMBING	
Project Title:	NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK	

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DRAWN BY:	GB	COMP. FILE No.:	0000000
REVIEWED BY:	KK	STATE PROJECT No.:	21086

SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

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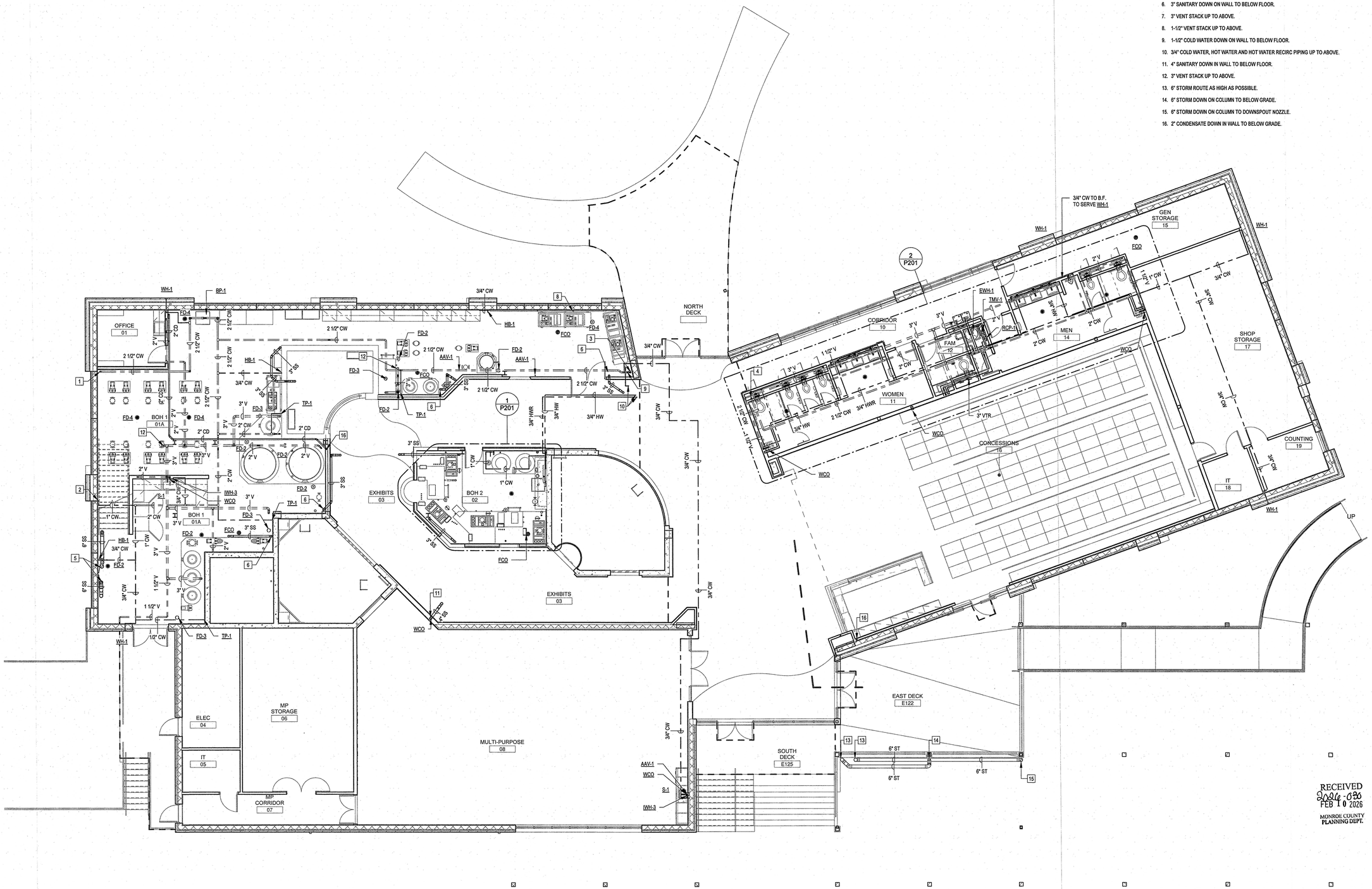
KEYNOTES PLUMBING [X] :

1. 2-1/2" DOMESTIC WATER PIPING UP FROM BELOW GRADE TO CEILING SPACE.
2. 2-1/2" DOMESTIC WATER PIPING UP TO MEZZANINE ABOVE.
3. 2-1/2" DOMESTIC WATER PIPING DOWN ON WALL TO BELOW FLOOR.
4. 2-1/2" DOMESTIC WATER PIPING UP FROM BELOW GRADE TO CEILING SPACE.
5. 6" SANITARY DOWN ON WALL TO BELOW FLOOR.
6. 3" SANITARY DOWN ON WALL TO BELOW FLOOR.
7. 3" VENT STACK UP TO ABOVE.
8. 1-1/2" VENT STACK UP TO ABOVE.
9. 1-1/2" COLD WATER DOWN ON WALL TO BELOW FLOOR.
10. 3/4" COLD WATER, HOT WATER AND HOT WATER RECIRC PIPING UP TO ABOVE.
11. 4" SANITARY DOWN IN WALL TO BELOW FLOOR.
12. 3" VENT STACK UP TO ABOVE.
13. 6" STORM ROUTE AS HIGH AS POSSIBLE.
14. 6" STORM DOWN ON COLUMN TO BELOW GRADE.
15. 6" STORM DOWN ON COLUMN TO DOWNSPOUT NOZZLE.
16. 2" CONDENSATE DOWN IN WALL TO BELOW GRADE.



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MONROE COUNTY
PLANNING DEPT.

N

1 FIRST FLOOR PLAN - PLUMBING

1/8" = 1'-0"

12/12/2025 10:03:59 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

GW K2M GWO CURTIS + HODGES ARCHITECTS roto Kimley»Horn

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West Palm Beach, FL 33409
p 561-686-6275
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DESIGNER:	GB
DRAWN BY:	GB
REVIEWED BY:	KK
Consultant:	

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

JASON L. SMITH, P.E.
FLORIDA LICENSE NO. 77743
SMITH AND FLOYD
1100 SE 3RD AVE
FT. LAUD., FL 33316

JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN - PLUMBING

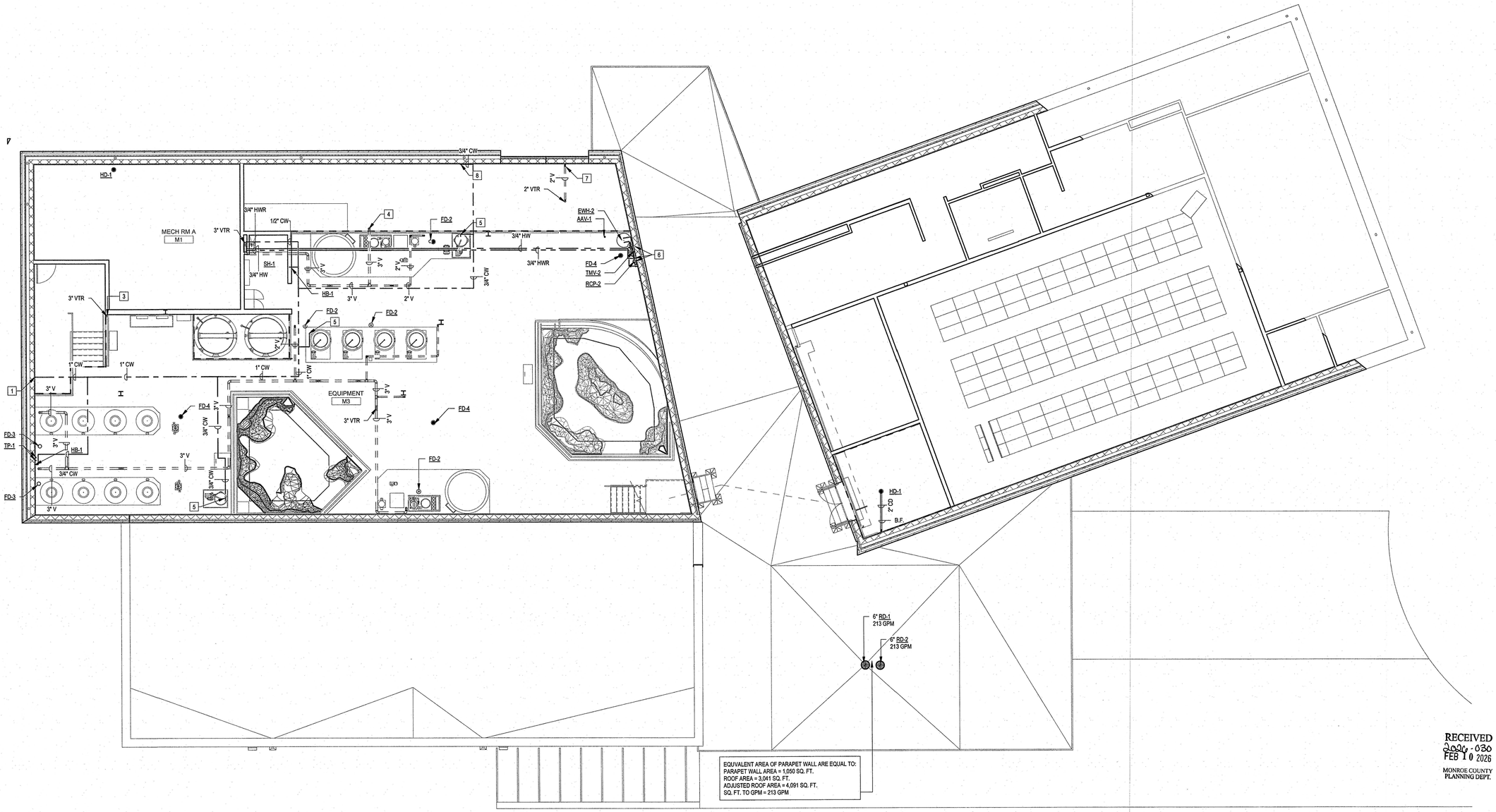
Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: P101

PLOTTED: 12/12/2025 10:03:59 AM

KEYNOTES PLUMBING [X] :

1. 2-1/2" DOMESTIC WATER PIPING UP FROM BELOW TO CEILING SPACE.
2. 2-1/2" DOMESTIC WATER PIPING DOWN ON WALL TO BELOW FLOOR.
3. 3" VENT UP FROM BELOW AND TO 3" VTR.
4. 3" VENT UP FROM BELOW TO CEILING SPACE.
5. 3/4" COLD WATER CONNECTION TO EQUIPMENT.
6. 3/4" COLD WATER, HOT WATER AND HOT WATER RECIRC DOWN TO BELOW.
7. 2" VENT UP FROM BELOW TO CEILING SPACE.
8. 3/4" COLD WATER DOWN ON WALL TO BELOW.



N

1 MEZZANINE FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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STATE PROJECT No.: 21095

DESIGNER: GB
DRAWN BY: GB
REVIEWED BY: KK
Consultant: OCI ASSOCIATES

2 Hanoverian Circle, Suite 105, West Palm Beach, FL 33409, P. 561-688-8025, www.ociassociates.com
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I ISSUE THIS DOCUMENT FOR CONSTRUCTION ON 01-05-26 BY JASON L. SMITH, P.E. LICENSE NUMBER 93293 STATE OF FLORIDA. COA NO. 28295 PROFESSIONAL ENGINEER

JASON L SMITH, P.E.
JEFFERSON ENGINEERING
MARLOWE, FL 32303
FL REG. NO. 93293

JOHN PENNEKAMP

Sheet Title: MEZZANINE FLOOR PLAN - PLUMBING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: P102

PLOTTED: 12/12/2025 10:04:18 AM

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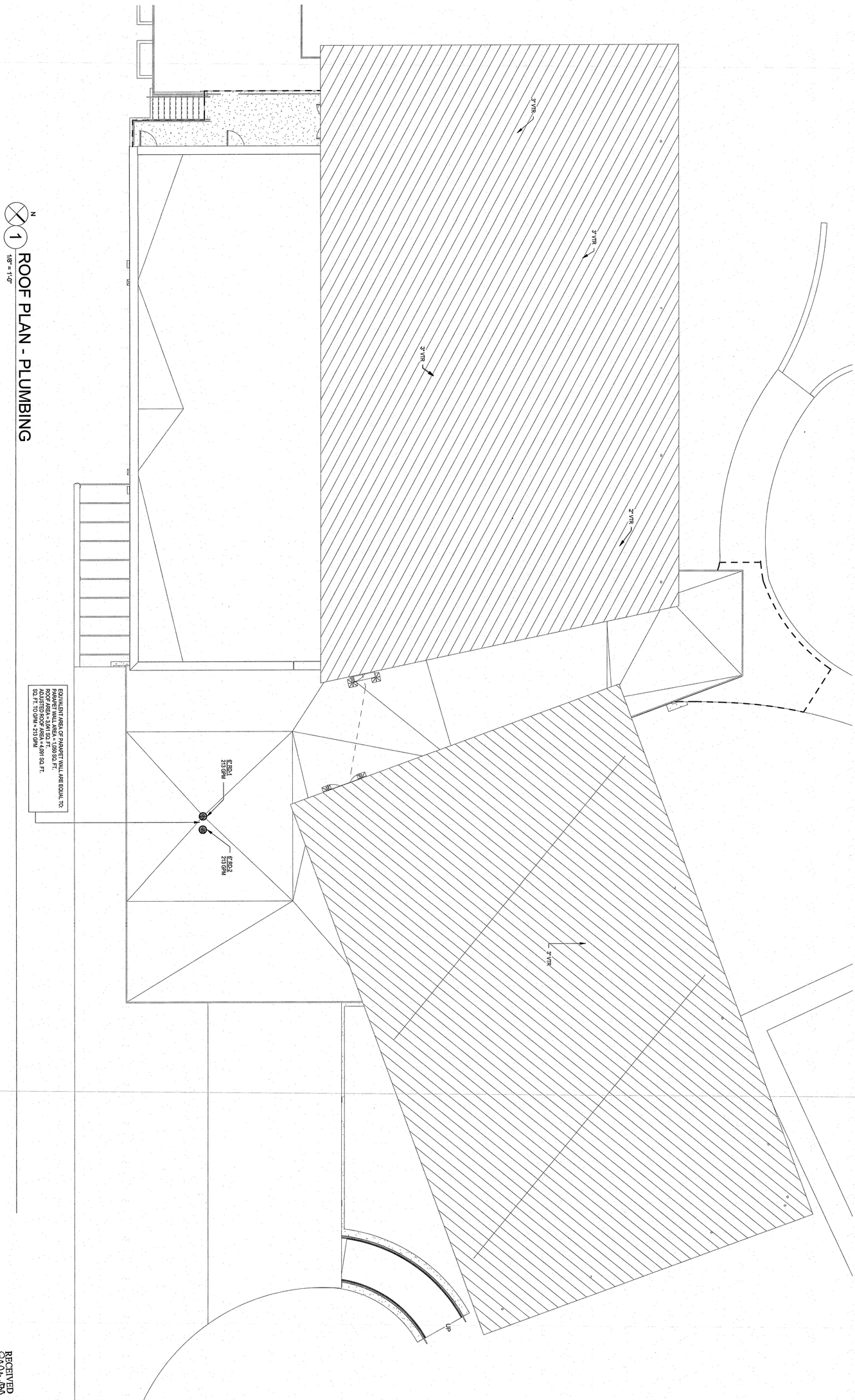

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12/12/2025 10:04:27 AM

Sheet Number: P110

JOHN PENNEKAMP

Sheet Title: ROOF PLAN - PLUMBING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

JASON L. SMITH LICENSE 67758 STATE OF FLORIDA PROFESSIONAL ENGINEER
JASON L. SMITH, P.E.
600 S. ORLANDO AVE
WINTER PARK, FL
FL REG. NO. / PE57745

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West Palm Beach, FL 33409
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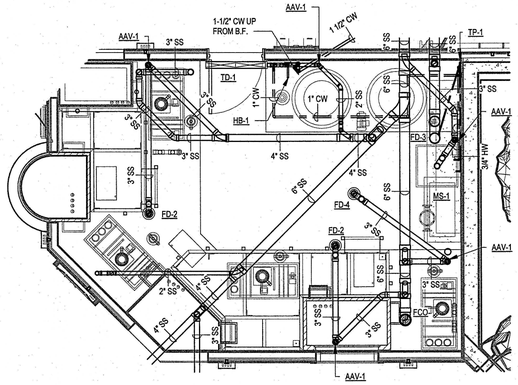
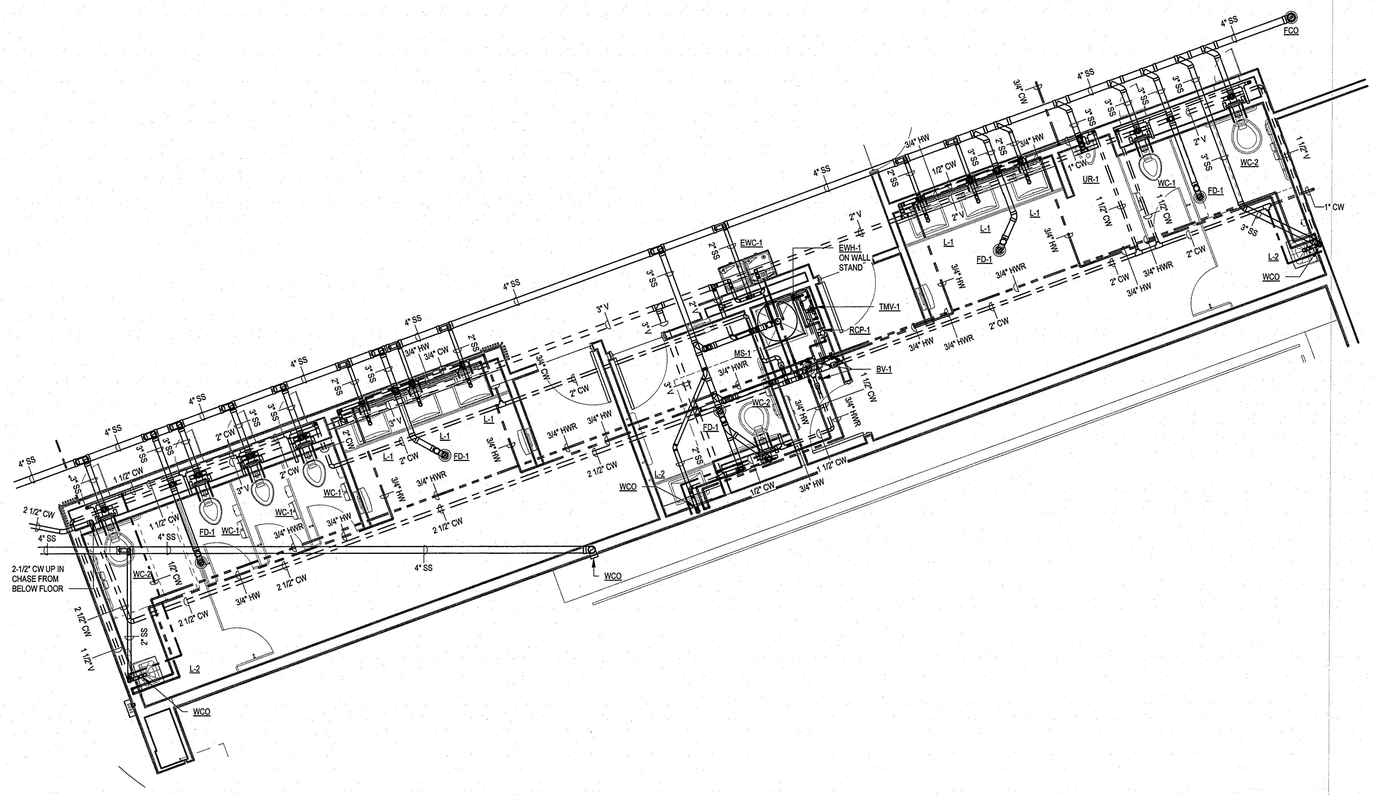


1 ENLARGED PLAN - BOH 2 - PLUMBING
1/4" = 1'-0"



2 ENLARGED PLAN - RESTROOM GROUP - PLUMBING
1/4" = 1'-0"

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GW/WO K2M roto Kimley»Horn
CURTIS + RODGES ARCHITECTS

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COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JASON L. SMITH, P.E.
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JASON L. SMITH, P.E.
6505 E. ORLANDO AVE.
MAITLAND, FL 32751
FL REG. NO.: PE57743

Sheet Title: JOHN PENNEKAMP
ENLARGED PLANS - PLUMBING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
P201

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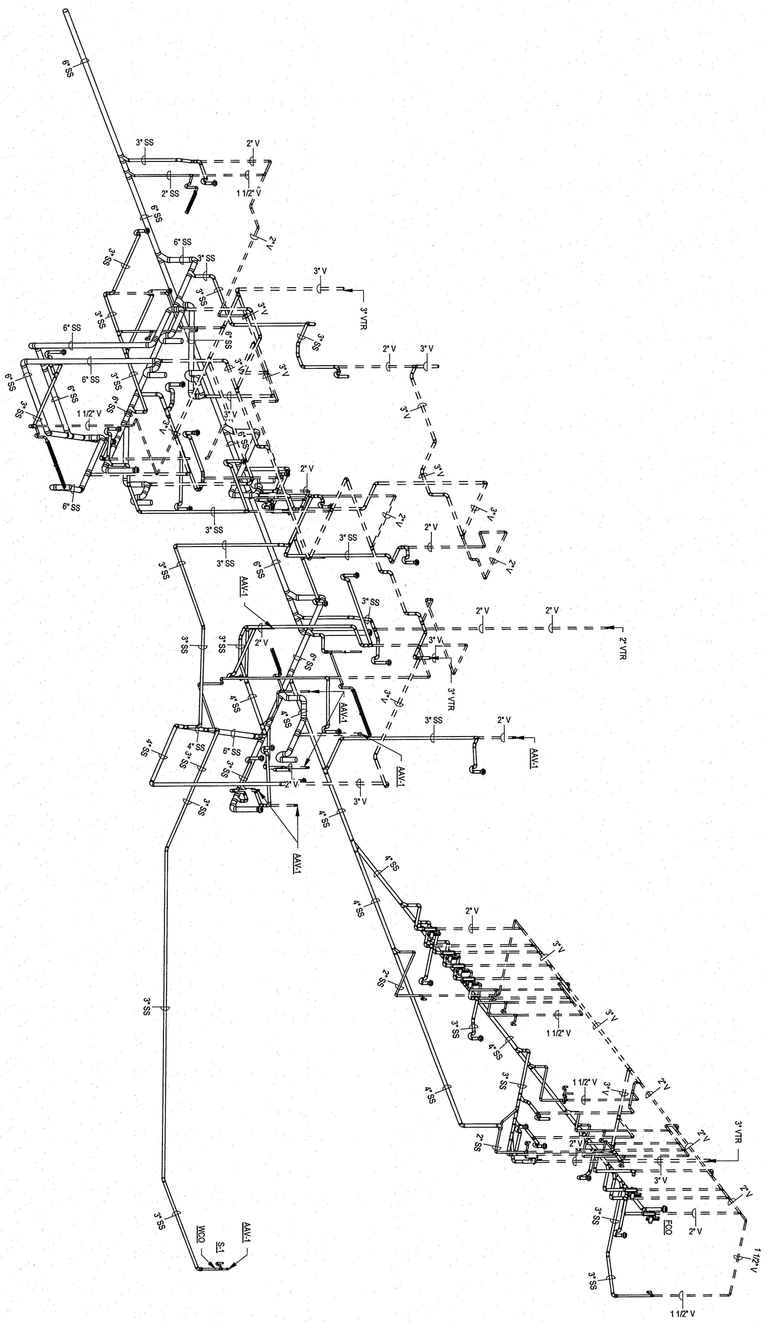
1 OVERALL WASTE RISER - PLUMBING



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Sheet Number: P301

JOHN PENNEKAMP

Sheet Title: OVERALL WASTE RISER - PLUMBING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

JASON L. SMITH LICENSE No. 97715 STATE OF FLORIDA PROFESSIONAL ENGINEER
JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

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Bureau of Design and Construction
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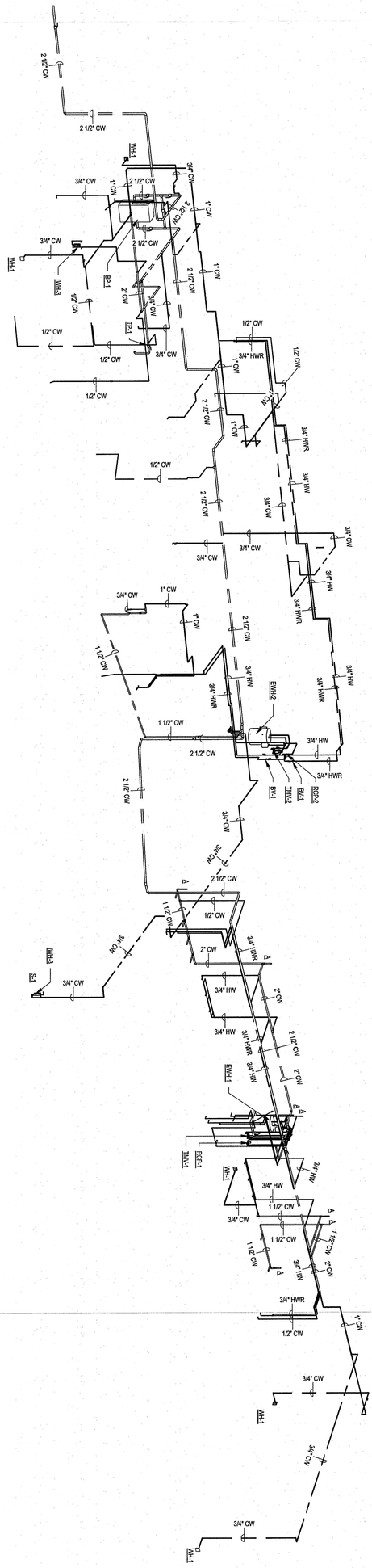
1 OVERALL WATER RISER - PLUMBING



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Sheet Number: P302	JOHN PENNEKAMP		
	Sheet Title: OVERALL WATER RISER - PLUMBING		
	Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK		

JASON L. SMITH LICENSE 01-05-26 STATE OF FLORIDA PROFESSIONAL ENGINEER
JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

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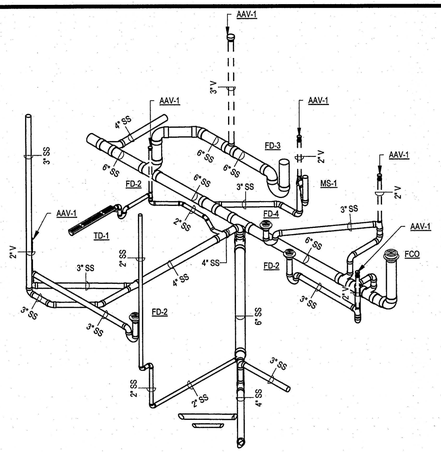
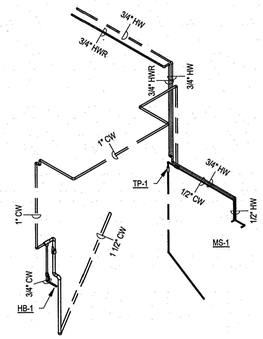
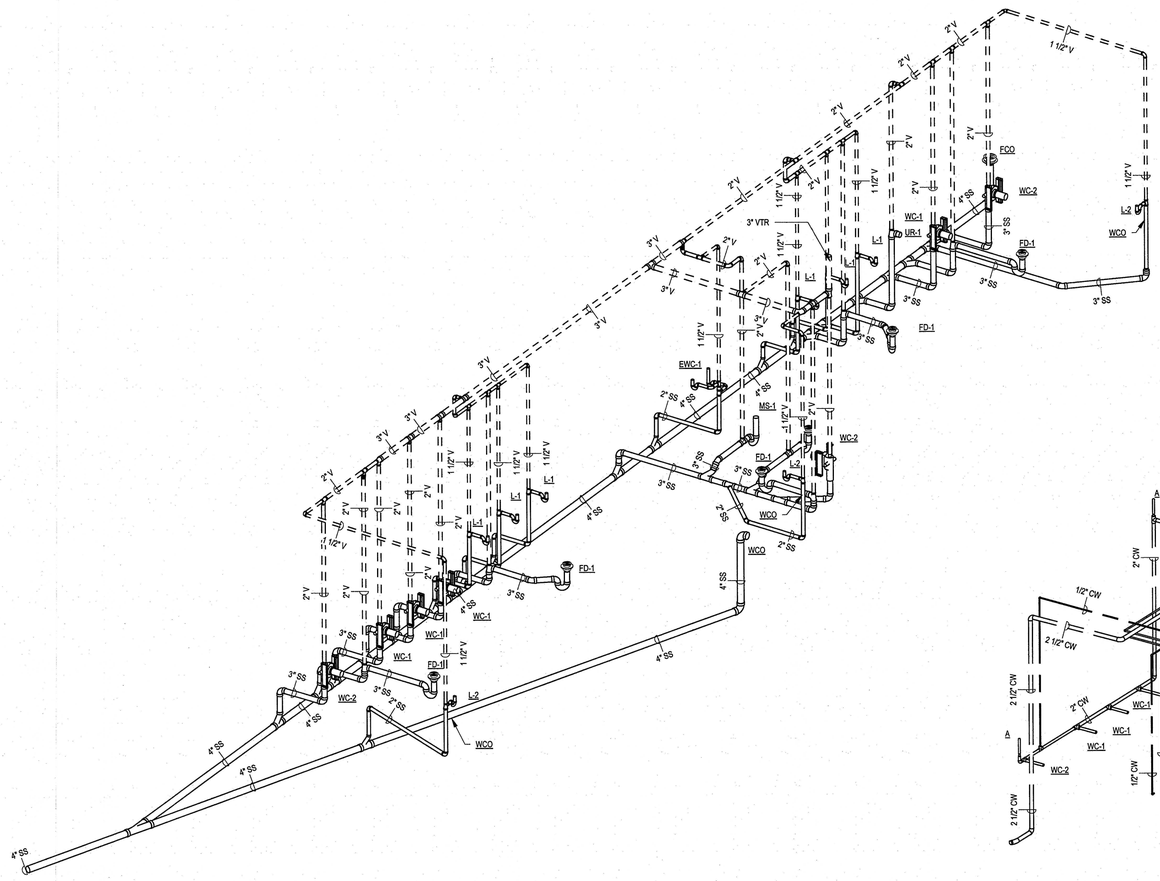


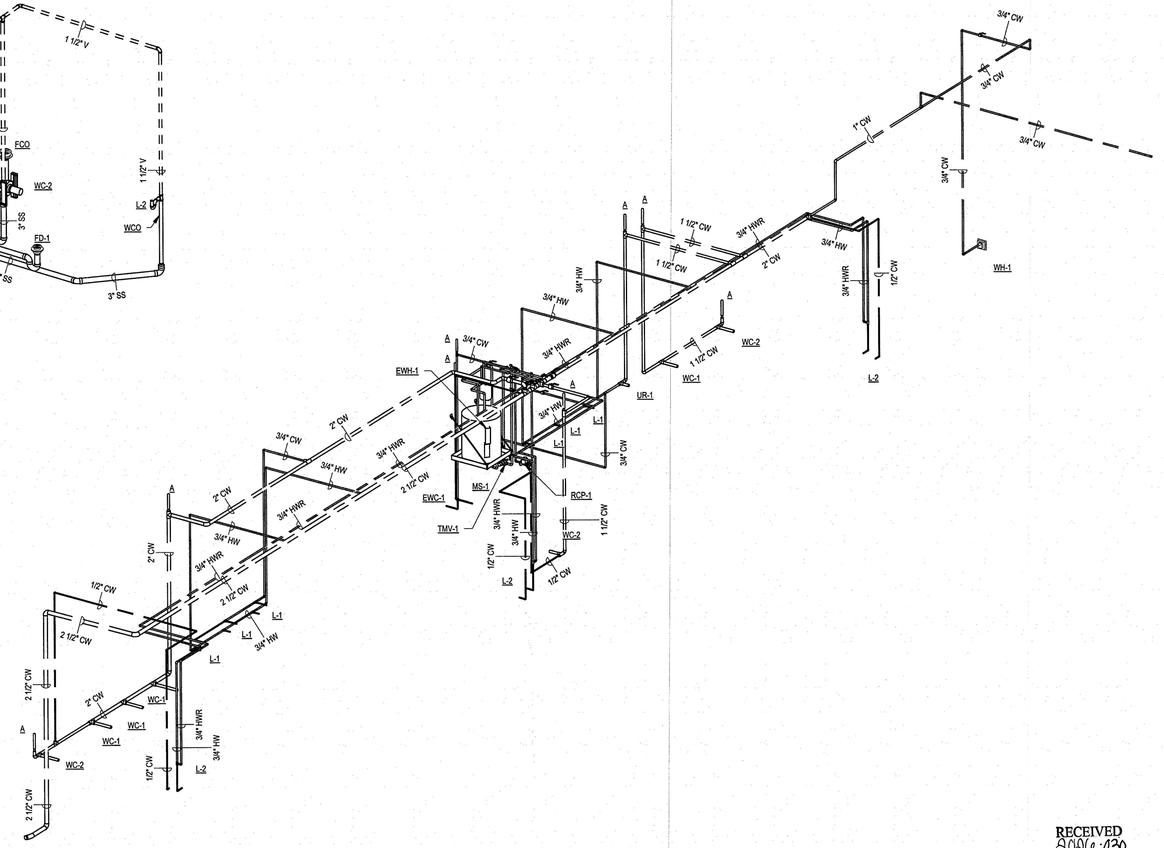
1 ENLARGED BOH 2 WASTE RISER - PLUMBING



2 ENLARGED BOH 2 WATER RISER - PLUMBING



3 ENLARGED RESTROOM WASTE RISER- PLUMBING



4 ENLARGED RESTROOM WATER RISER - PLUMBING

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ISSUE DATE: 08.29.2025
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STATE PROJECT No.: 21086

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DRAWN BY: GB
REVIEWED BY: KK
Consultant:

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STATE OF FLORIDA
JASON G. SMITH, P.E.
LICENSE NUMBER
FL #86740, FE28793

JOHN PENNEKAMP

Sheet Title: ENLARGED PLAN RISERS - PLUMBING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: P303

PLOTTED: 12/12/2025 10:05:03 AM

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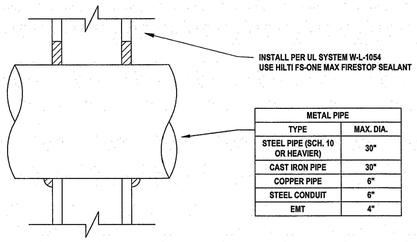
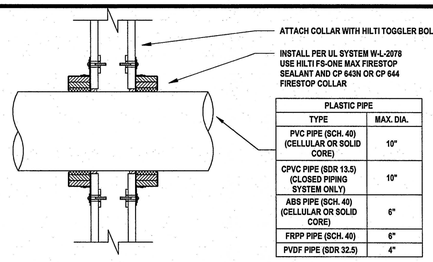


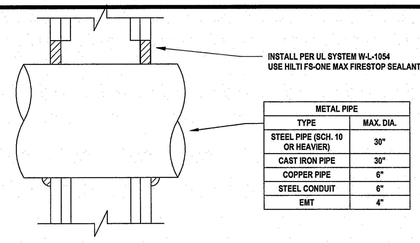
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



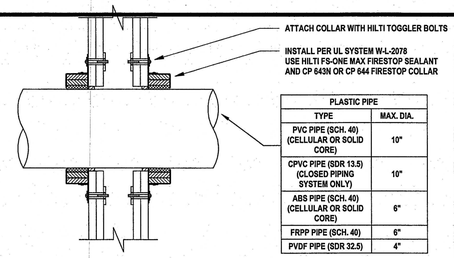
PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"
PVDF PIPE (SDR 32.5)	4"

PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS



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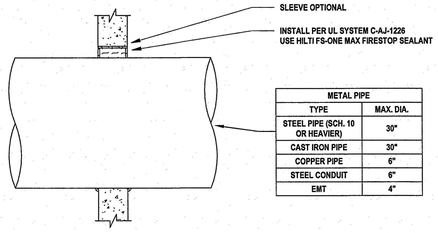
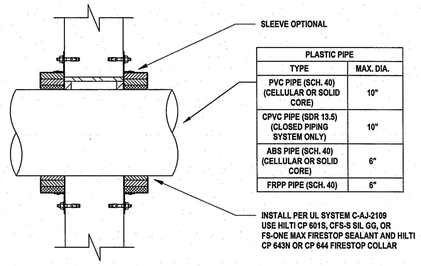
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS



METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



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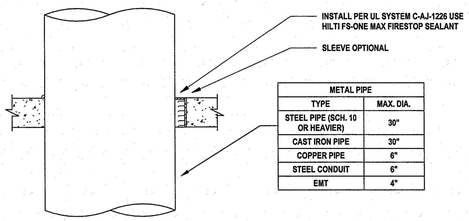
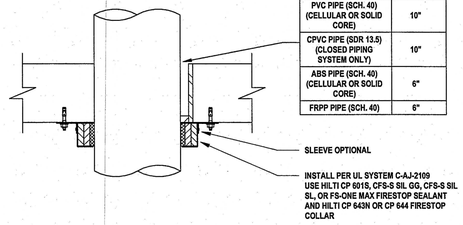
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"

PLASTIC PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS



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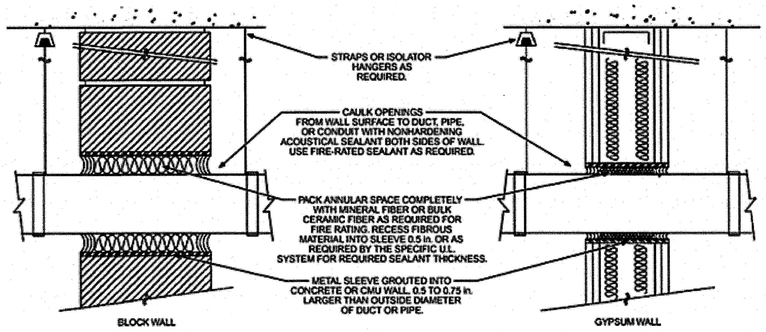
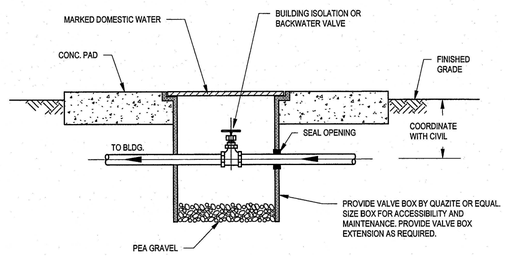
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"

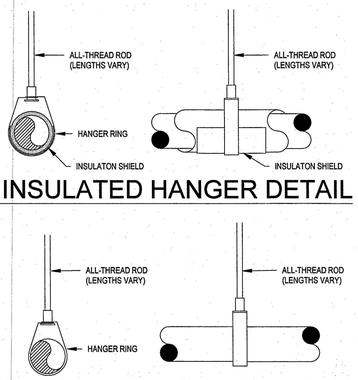
PLASTIC PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS



PIPE PENETRATION DETAILS (TYP.) *PROHIBIT CONTACT BETWEEN PENETRATING ELEMENT AND PENETRATED PARTITION OR OTHER BUILDING ELEMENT*
NTS

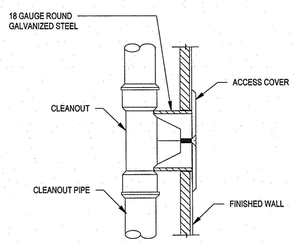


2 VALVE BOX DETAIL

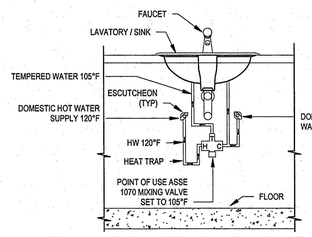


3 INSULATED HANGER DETAIL

4 NON-INSULATED HANGER DETAIL

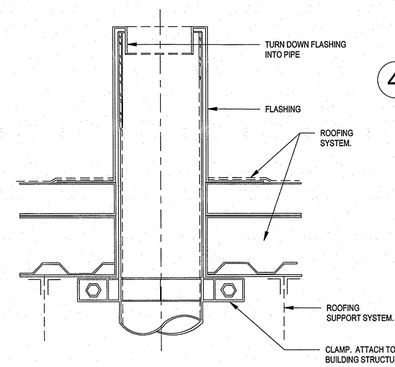


6 2-WAY WALL CLEANOUT DETAIL

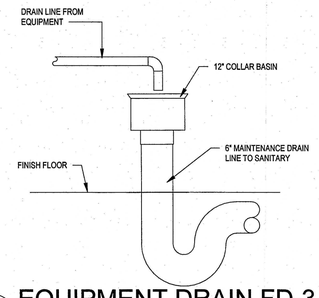


NOTE:
PROVIDE INSULATED COVERING ON ALL EXPOSED PIPING, AND P-TRAP. PIPE COVERING SHALL BE A MANUFACTURED COVERING SYSTEM. NO HAND WRAP SHALL BE ALLOWED.

7 ASSE 1070 POINT OF USE MIXING VALVE DETAIL - PLUMBING



8 VENT THRU ROOF DETAIL



9 EQUIPMENT DRAIN FD-3 DETAIL

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GW K2M OCI ASSOCIATES, INC
GWIO ARCHITECTS roto Kinsley Horn

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
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DESIGNER: GB
DRAWN BY: GB
REVIEWED BY: KK
Consultant:

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Sheet Title: DETAILS - PLUMBING

Project Title: JOHN PENNEKAMP
NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: P501

PLOTTED: 12/12/2025 10:05:10 AM

12/12/2025 10:05:10 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

SHOCK ARRESTOR SCHEDULE

DESIGNATION	MANUFACTURER	SERIES	FIXTURE UNITS
A	WATTS	LF15M2-A	1-11
B	WATTS	LF15M2-B	12-32
C	WATTS	LF15M2-C	33-60
D	WATTS	LF15M2-D	61-113
E	WATTS	LF15M2-E	114-154
F	WATTS	LF15M2-F	155-330

PLUMBING EQUIPMENT SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	ACCESSORIES / NOTES
FCO	FLOOR CLEANOUT	WATTS CO-200-R-60	-
WCO	WALL CLEANOUT	WATTS CO-590-RD	-
ECO	EXTERIOR FLOOR CLEANOUT	WATTS CO-200-RX-4	-
HB-1	HOSE BIB FOR NON-FREEZING MILD CLIMATE AREAS OR INTERIOR LOCATIONS	WOODFORD #24	MOUNT @ 18" AFF.
WH-1 OPTION NO.1	WALL HYDRANT FOR NON-FREEZING MILD CLIMATE AREAS	WOODFORD #B74	PROVIDE TWO (2) SETS OF LOOSE KEYS. MOUNT @ 18" AFG.
IMB-1	ICE MAKER BOX	OATEY 39140	-
FD-1	FLOOR DRAIN	WATTS FD-1100-B	PROVIDE W/ TRAP GUARD
FD-2	FLOOR DRAIN HEAVY DUTY	WATTS FD-1100-A-60-A5-G-3	PROVIDE W/ WITH PVC BODY, STAINLESS STEEL STRAINER AND TRAP GUARD AND 4" X 9" STAINLESS STEEL FUNNEL
FD-3	EQUIPMENT DRAINS	SEE DETAIL	PROVIDE W/ TRAP PRIMER TO P-TRAP AND AIR GAP BETWEEN EQUIPMENT DRAIN AND 12" COLLAR HUB
FD-4	FLOOR DRAIN HEAVY DUTY	WATTS FD-1100-A-60-A5	PROVIDE W/ WITH PVC BODY, STAINLESS STEEL STRAINER AND TRAP GUARD
TD-1	TRENCH DRAIN	BLUCHER BWC-136 (3 FT DOOR) BWC-172 (6TF DOORS)	PROVIDE W/PVC BODY, VANDAL PROOF GRATE
HD-1	HUB DRAIN	WATTS FD-1100-A-60-F4-3	PROVIDE W/ BACKWATER VALVE, PVC BODY AND STAINLESS STEEL STRAINER
AAV-1	AIR ADMITTANCE VALVE	STUDOR MINI-VENT 2" OR LESS MAXI-VENT 3"	-
BV-1	BALANCING VALE	CALEFFI 132	PROVIDE W/ TEMP. GAUGE
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY S59-3045	PROVIDE W/ SHUT-OFF VALVES
TMV-2	THERMOSTATIC MIXING VALVE	BRADLEY S59-3045	PROVIDE W/ PLASTIC OR STAINLESS STEEL CABINET AND SHUT-OFF VALVES
TP-1	TRAP PRIMERS	WATTS LFTP300	THESE ARE FOR ALL FD-3 EQUIPMENT P-TRAPS
RD-1	ROOF DRAIN	ZURN Z121	-
RD-2	ROOF DRAIN OVERFLOW	ZURN Z121-89	-

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	FAUCET/ FLUSH VALVE MODEL	FIXTURE CONNECTION SIZES					ACCESSORIES
				C.W.	H.W.	MIXED	WASTE	VENT	
WC-1	WATER CLOSET WALL HUNG	AMERICAN STANDARD 2257.101	SLOAN ECOS 8111 1.1/1.28 GPF	1"	-	-	3" OR 4"	2" OR 3"	PROVIDE WITH THIN WALL CARRIER, ELONGATED BOWL OPEN FRONT SEAT
WC-2	WATER CLOSET WALL HUNG ADA	AMERICAN STANDARD 2257.101	SLOAN ECOS 8111 1.1/1.28 GPF	1"	-	-	3" OR 4"	2" OR 3"	PROVIDE WITH THIN WALL CARRIER, ELONGATED BOWL OPEN FRONT SEAT
UR-1	URINAL FLUSH VALVE	AMERICAN STANDARD 6002.001	SLOAN ECOS 8186 0.5 GPF	3/4"	-	-	2"	1-1/2"	PROVIDE WITH THIN WALL CARRIER
L-1	LAVATORY UNDERCOUNTED	AMERICAN STANDARD 0614	SLOAN EFX-250 0.5 GPM	1/2"	-	1/2"	2"	1-1/2"	PROVIDE WITH WALL CARRIER, P-TRAP, STRAINER AND LOOSE KEY SUPPLIES WITH UNDERDECK CALEFFI 5213 ASSE 1070 MIXING VALVE.
L-2	LAVATORY WALL HUNG ADA	AMERICAN STANDARD 03056	SLOAN EFX-250 0.5 GPM	1/2"	-	1/2"	2"	1-1/2"	PROVIDE WITH WALL CARRIER, P-TRAP, STRAINER AND LOOSE KEY SUPPLIES WITH UNDERDECK CALEFFI 5213 ASSE 1070 MIXING VALVE.
S-1	SINGLE COMP SINK	ELKAY LRADQ312265	ELKAY LKAV3031	1/2"	1/2"	-	2"	1-1/2"	PROVIDE WITH P-TRAP, STRAINER AND LOOSE KEY SUPPLIES
SH-1	WASHDOWN SHOWER	-	CHICAGO SH-PBT-15-031	1/2"	1/2"	-	2"	1-1/2"	PROVIDE WITH P-TRAP, STRAINER, HAND SHOWER AND LOOSE KEY SUPPLIES
MS-1	MOP SINK 24" X 24"	FIAT #TSB3010	FIAT #830AA	1/2"	1/2"	-	3"	2"	FIAT #889-CC MOP HANGER, FIAT #1239-BB BUMPER GUARD AND WALL GUARD.
EWC-1	ELECTRIC WATER COOLER W/BOTTLE FILLER HIGH/LOW	ELKAY VRCTLR8WSK	-	1/2"	-	-	2"	1-1/2"	PROVIE WITH WALL CARRIER

NOTES:

- FIXTURE TO BE WHITE IN COLOR UNLESS OTHERWISE NOTED
- ADA WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE FLUSH VALVE WITH GRAB BARS.
- ADA LAVATORIES AND SINKS SHALL HAVE TRAP INSULATION KIT TO COVER P-TRAP AND SUPPLIES.
- ADA FIXTURES MOUNTING HEIGHT PER LOCAL, STATE HANDICAP CODES.
- CONTRACTOR TO PROVIDE TRAP, CARRIER, SUPPLIES LINES AND DRAINS REQUIRED BY FIXTURES.

DOMESTIC BOOSTER PUMP SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	SYSTEM CAPACITY				MOTOR			ELECTRICAL DATA		
			BOOST	NUM. OF MOTORS	HEADER SIZE	GPM	MODEL	HP	GPM	VOLT	PHASE	HZ
BP-1	BOOSTER PUMP	GRUNDFOS HYDRO MPC E 2CME10-2	35 PSI	2	2-1/2"	150	2CME10-2	3	75	208	3	60

NOTES:

- MOUNT UNIT ON A 6" CONCRETE HOUSE KEEPING PAD
- PROVIDE BOOSTER WITH A LOW WATER PRESSURE CUT OFF SENSOR.
- REFER TO DETAIL SHEET P501 FOR ADDITIONAL INFORMATION
- PROVIDE WITH DIAPHRAM TANK AMTROL ST-25V
- PROVIDE A MINIMUM OF 0.25" DEFLECTION NEOPENE ISOLATION MOUNTS AND THE FIRST 50 FT OF PIPING FROM THE PUMP USE NEOPRENE ISOLATION HANGERS, PROVIDE ELASTOMERIC FLEX CONNECTORS AND FLEXIBLE ELECTRICAL CONNECTIONS.

ELECTRIC WATER HEATER SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	GALLON CAPACITY	SET TEMPERATURE	ELECTRICAL DATA			ACCESSORIES
					VOLT	PHASE	kW	
EWH-1	ELECTRIC WATER HEATER	A.O. SMITH DEL-50	50	140°	208	3	10	PROVIDE WITH HOLDRITE WALL STAND AND AN ALUMINUM WATER HEATER PAN
EWH-2	ELECTRIC WATER HEATER	A.O. SMITH DEL-50	50	140°	208	3	6	PROVIDE WITH AN ALUMINUM WATER HEATER PAN
IWH-3	ELECTRIC WATER HEATER	EEMAX SPEX2412	-	95°	120	1	2.4	PROVIDE IN CABINET UNDER SINK

NOTES:

- PROVIDE ALL GAUGES, HEAT TRAPS, THERMOSTATS, TEMPERATURE AND PRESSURE RELIEF VALVE AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.

RECIRCULATION PUMP SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	HP	RPM	GPM/ TDH	ELECTRICAL DATA			ACCESSORIES
						VOLT	PHASE	HZ	
RCP-1	RECIRCULATION PUMP	TACO 009	1/8	3250	2/4	115	1	60	
RCP-2	RECIRCULATION PUMP	TACO 009	1/8	3250	2/4	115	1	60	

NOTES:

- PROVIDE ALL GAUGES, UNIONS, THERMOSTATS, VALVE AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE WITH DIVISION 16 CONTRACTOR.
- PUMP SHALL BE ALL BRONZE WITH FLANGE CONNECTION.
- MOUNT RCP-1 WITH NEOPRENE

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Department of Environmental Protection
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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21096

DESIGNER: GB
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JOHN PENNEKAMP

Sheet Title: SCHEDULES - PLUMBING

Project Title: NEW INTERPRETIVE CENTER, JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: P601

PLOTTED: 12/12/2025 10:05:15 AM

12/12/2025 10:05:15 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

GENERAL LEGEND AND SYMBOLS

- PIPE UP THROUGH PLAN
- PIPE DOWN THROUGH PLAN
- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DOWN
- G — PIPE GUIDE
- FLEXIBLE PIPE CONNECTOR
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE, HORIZONTAL SWING
- GATE VALVE
- THREE WAY MODULATING CONTROL VALVE
- M — THREE WAY CONTROL VALVE MODULATING ACTUATOR
- M — TWO WAY CONTROL VALVE MODULATING ACTUATOR
- GLOBE VALVE
- BALANCING VALVE
- PLUG VALVE
- GAS COCK, GAS STOP
- GAS COCK, GAS STOP
- PRESSURE RELIEF VALVE (WATER)
- PRESSURE REDUCING VALVE
- THERMOSTAT PORTS
- PRESSURE GAUGE
- HYDRONIC TEMPERATURE SENSOR
- UNION
- VALVE IN SERVICE BOX WITH CAST IRON COVER
- SOLENOID VALVE
- CAPPED LINE
- DPS — DIFFERENTIAL PRESSURE SWITCH
- FM — B.A.S. FLOW METER/MONITOR
- PUMP (ARROW INDICATES FLOW)
- THERMOMETER IN PIPE

- SUPPLY DIFFUSER
- SUPPLY PLAQUE DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- X/X — RIGID DUCTWORK (WIDTH/DEPTH)
- ELBOW WITH TURNING VANES
- MANUAL SPLITTER DAMPER
- FLEXIBLE DUCT WITH SPIN-IN FITTING AND MANUAL VOLUME DAMPER
- MANUAL VOLUME DAMPER
- AREA TO DEMOLISH
- DUCTWORK/EQUIPMENT TO DEMOLISH
- POINT OF DEMOLITION OF EXISTING
- POINT OF CONNECTION OF NEW TO EXISTING
- 1 — DEMO KEYNOTE DESIGNATION
- X — KEYNOTE DESIGNATION
- ΔT — DELTA T (TEMPERATURE DIFFERENCE)
- CD — CONDENSATE DRAIN LINE
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- R — REFRIGERANT LINES
- GS — PRIMARY / GLYCOL SUPPLY
- GR — PRIMARY / GLYCOL RETURN
- FD — FIRE DAMPER
- BDD — BACKDRAFT DAMPER
- MVD — MOTORIZED VOLUME DAMPER
- SD — SMOKE DAMPER
- T — THERMOSTAT
- H — HUMIDISTAT
- SD — DUCT MOUNTED SMOKE DETECTOR
- S CO — CARBON MONOXIDE SENSOR (MOUNT @36" A.F.F.)
- S CO_2 — CARBON DIOXIDE SENSOR (MOUNT @60" A.F.F.)
- BP — BIPOLAR IONIZATION UNIT
- 1 / M-0 — DETAIL OR RISER DESIGNATION / SHEET WHERE DETAIL OR RISER APPEAR

NOTE:
ALL STANDARD SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE PROJECT DRAWINGS.

ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	AIR CONDITIONING
ACS	AUTOMATIC CONTROL SYSTEM
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMP	AMPERES
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AUX	AUXILIARY
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BP	BIPOLAR IONIZATION UNIT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CAM	COMMON AREA MAINTENANCE
CC	COOLING COIL
CCP	CENTRAL CONTROL PANEL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHWP	CHILLED WATER PUMP
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COMB	COMBINATION
COMPR	COMPRESSOR
COND	CONDENSATE OR CONDENSER
CONT	CONTINUATION
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU IN	CUBIC INCHES
CW	DOMESTIC COLD WATER
D	DRAIN LINE
DB	DRY BULB
DEG	DEGREES
DG	DOOR GRILLE
DHC	DUCT HEATING COIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC CONNECTOR
ECO	EXTERIOR CLEANOUT
EDB	ENTERING DRY BULB TEMPERATURE
EEW	EMERGENCY EYE WAS/SHOWER
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST AIR
EXIST	EXISTING
EXP	EXPANSION
°F	DEGREES FAHRENHEIT
F	FIRE SPRINKLER PIPING
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDPR	FIRE DAMPER
FG	FINISHED GRADE
FHC	FIRE HOSE CABINET
FIN FL	FINISHED FLOOR
FLA	FULL LOAD AMPERES
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FTB	FAN POWERED TERMINAL BOX
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
GCHS	GLYCOL CHILLED WATER SUPPLY
GCHR	GLYCOL CHILLED WATER RETURN
GO	GAS OUTLET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H_2O	WATER
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HW	DOMESTIC HOT WATER
HZ	HERTZ (FREQUENCY)
IN	INCH OR INCHES
INSUL	INSULATION
IPS	IRON PIPE SIZE
IST	ICE STORAGE TANK
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LCP	LOCAL CONTROL PANEL
LDB	LEAVING DRY BULB TEMPERATURE
LIN FT	LINEAR FEET
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSANDS OF BTUH
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OV	OUTLET VELOCITY
P	PRESSURE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
PRESS	PRESSURE
PVC	POLYVINYL CHLORIDE
R	RISE
RA	RETURN AIR
RAF	RETURN AIR FAN
RD	ROOF DRAIN
REQD	REQUIRED
RHC	REHEAT COIL
R_{410}	REFRIGERANT HOT GAS DISCHARGE
R_L	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
R_S	REFRIGERANT SUCTION
RV	RELIEF VALVE
S/FDPR	COMBINATION SMOKE AND FIRE DAMPER
SAN	SANITARY
SAU	SOUND ATTENUATION UNIT
SCW	SOFT COLD WATER
SGCHR	SECONDARY GLYCOL CHILLED WATER RETURN
SGCHS	SECONDARY GLYCOL CHILLED WATER SUPPLY
SMH	STORM MANHOLE
SP	STATIC PRESSURE
SDPR	SMOKE DAMPER
SPEC	SPECIFICATION
ST	STORM
TB	TERMINAL BOX
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TES	THERMAL ENERGY STORAGE
TS	TIP SPEED
TYP	TYPICAL
TX	TOILET EXHAUST
UH	UNIT HEATER
V	VENT LINE
VAV	VARIABLE AIR VOLUME UNIT
VLV	VALVE
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
W	WIDTH
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WP	WORKING PRESSURE

NOTE:
ALL STANDARD ABBREVIATIONS MAY NOT APPEAR ON THE PROJECT DRAWINGS.

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE GOVERNED AND INSTALLED IN COMPLIANCE WITH THE LATEST EDITION AND APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
   A. FLORIDA BUILDING CODE - 2023
   B. FLORIDA MECHANICAL CODE - 2023
   C. FLORIDA PLUMBING CODE - 2023
   D. FLORIDA ENERGY EFFICIENCY CODE - 2023
   E. FLORIDA FIRE PREVENTION CODE - 2023
   F. FLORIDA EXISTING BUILDING CODE - 2023
   G. NATIONAL ELECTRICAL CODE (NEC) - 2020
   H. NFPA 90A - INSTALLATION OF AIR CONDITIONING & VENTILATING SYSTEMS
   I. NFPA 101 - LIFE SAFETY CODE
   J. ASHRAE STANDARDS (INCLUDING 15, 55, 62.1, 90.1 & 129)
   K. ANSI
   L. SMACNA DUCTWORK STANDARDS
   M. AMERICANS WITH DISABILITIES ACT (ADA)
   N. ALL OTHER APPLICABLE FEDERAL, COUNTY AND CITY CODES REQUIRED BY LOCAL JURISDICTIONS
1. THE CONTRACTOR SHALL READ THE SPECIFICATIONS. THE SPECIFICATIONS AND DRAWINGS TOGETHER DEFINE THE FULL CONTRACT REQUIREMENTS. IN THE EVENT OF A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT APPLIES UNLESS DIRECTION HAS BEEN PROVIDED THROUGH A FORMAL REQUEST FOR INFORMATION OR CLARIFICATION PRIOR TO THE CLOSE OF THE BIDDING.
2. ANY PROPOSED EQUIPMENT OR MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER AND ENGINEER OF RECORD PRIOR TO THE CLOSE OF BIDDING. NO EQUIPMENT OR MATERIAL SUBSTITUTIONS WILL BE CONSIDERED ONCE THE BIDDING HAS ENDED AND THE GMP HAS BEEN ESTABLISHED.
3. AIR HANDLING SYSTEMS SHALL NOT BE ENERGIZED UNTIL ALL OF THE DRYWALL FINISHING AND PAINTING SCOPES HAVE BEEN COMPLETED. CONFIRMATION THAT THOSE SCOPES ARE REQUIRED WITH WRITTEN APPROVAL FROM THE OWNER AND ENGINEER BEFORE AIR HANDLING UNIT AND FANS CAN BE ENERGIZED. FAILURE TO OBTAIN WRITTEN APPROVAL TO ENERGIZE THE FANS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD-PARTY CONTRACTOR AT NO ADDITIONAL COST.
4. ALL TEMPORARY FILTRATION AT AIR HANDLING EQUIPMENT AND ANY RETURN AIR INTAKE GRILLE SHALL BE REPLACED A MINIMUM OF ONCE A MONTH DURING PERIODS OF OPERATION DURING CONSTRUCTION. A LOG MUST BE MAINTAINED AT EACH AIR HANDLING UNIT INDICATING DATES OF FILTER REPLACEMENTS FOR INSPECTION. FAILURE TO MAINTAIN THE REQUIRED LOGS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD PARTY CONTRACTOR AT NO ADDITIONAL COST.
5. ALL EQUIPMENT, DUCTWORK AND MATERIALS STORED ON THE JOBSITE SHALL BE PROPERLY PROTECTED FROM THE ELEMENTS AND CONSTRUCTION DIRT AND DEBRIS. ANY MATERIAL EXPOSED TO THE ELEMENTS WITH EXPOSED INSULATION WILL BE REQUIRED TO BE REPLACED AT NO ADDITIONAL COST. ANY EQUIPMENT OR MATERIAL THAT IS EXPOSED TO THE ELEMENTS, DIRT AND DEBRIS THAT ARE DEEMED ACCEPTABLE TO REMAIN SHALL BE THOROUGHLY CLEANED AND DISINFECTED AND SIGNED OFF ON BY THE OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
6. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIED.
7. ALL EQUIPMENT HOUSINGS AND COMPONENTS INSTALLED OUTDOORS OR WITHIN UNCONDITIONED VENTILATED SPACES THAT ARE EXPOSED TO THE ELEMENTS SHALL BE SUITABLE FOR SEACOAST APPLICATION. ANY APPLIED CORROSION RESISTANT MATERIALS SHALL BE FACTORY APPLIED.
8. EVERY PIECE OF MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE WITH MINIMUM 1" HIGH LETTERS INDICATING EQUIPMENT DESIGNATION. ANY EQUIPMENT INSTALLED WHERE CONCEALED ABOVE CEILINGS SHALL BE NOTED WITH CLEAR ADHESIVE LABEL AT NEAREST T-GRID OR ON ACCESS PANEL IN ADDITION TO THE ENGRAVED NAMEPLATE.
9. ALL VARIABLE FREQUENCY DRIVES AND MOTOR STARTERS SHALL BE PROVIDED WITH ENGRAVED LABELS INDICATING ASSOCIATED EQUIPMENT THEY SERVE AS WELL AS THE ELECTRICAL PANEL AND CIRCUIT THAT FEEDS THE DEVICE.
10. ALL EXTERIOR MECHANICAL EQUIPMENT AND THEIR FRAMES, APPURTENANCES, COMPONENTS, SUPPORTS AND ANCHORING DEVICES SHALL BE ANCHORED TO RESIST THE FORCES DUE TO WIND PRESSURE AS REQUIRED BY THE FLORIDA BUILDING CODE.
11. ALL EQUIPMENT AND MATERIALS INSTALLED THAT INTERFACE WITH THE ROOFING SYSTEM SHALL BE COORDINATED WITH THE ROOFING SYSTEM BEING PROVIDED. ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROOFING MANUFACTURER TO MAINTAIN CONTINUITY AND WARRANTIES.
12. COORDINATE LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND WORK OF ALL OTHER TRADES.
13. ALL LOW-PRESSURE SUPPLY, RETURN AND EXHAUST DUCTWORK ARE DESIGNED FROM A MINIMUM OF 0.05" TO A MAXIMUM OF 0.1" OF FRICTION PER 100 FT. OF DUCT.
14. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS AND RIGID DUCT RUNOUTS SERVING SINGLE DIFFUSER SHALL BE THE SAME SIZE AS DIFFUSER NECK.
15. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS FOR VAV BOXES AND FAN TERMINAL UNIT SHALL BE THE SAME SIZE AS UNIT INLET. VERIFY ACTUAL DIMENSIONS WITH EQUIPMENT SUPPLIED.
16. PAINT INTERNAL DUCTWORK VISIBLE THROUGH DIFFUSERS, GRILLE OR LOUVER FACE FLAT BLACK.
17. DUCTWORK LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO BE USED AS DUCT FABRICATION DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION EFFORTS BETWEEN TRADES AS OUTLINED IN THE SPECIFICATIONS.
18. ALL LOW-PRESSURE BRANCH DUCTS SHALL BE PROVIDED WITH A MANUAL VOLUME DAMPER FOR BALANCING. ALL MANUAL VOLUME DAMPERS SHALL BE PROVIDED WITH A MINIMUM 12" LENGTH OF FLUORESCENT ORANGE RIBBON TO AIDE IN VISIBILITY WHERE ABOVE CEILINGS.
19. ALL INSULATION / DUCT SEAMS SHALL BE SEALED WITH GLASS FAB, STAPLES AND MASTIC. PRESSURE SENSITIVE TAPE IS NOT AN APPROVED DUCT / INSULATION CLOSURE SYSTEM. ANY PRESSURE SENSITIVE TAPE USED WILL BE REQUIRED TO BE REMOVED AND REPLACED WITH A PROPER CLOSURE SYSTEM.
20. DUCT ACCESS DOORS SHALL BE PROVIDED WHERE ANY EQUIPMENT REQUIRING ACCESS IS INSTALLED ABOVE AN INACCESSIBLE CEILING. MINIMUM SIZE SHALL BE 12X12 OR AS LARGE AS NECESSARY TO ACCOMMODATE EQUIPMENT REPLACEMENT AND SERVICE.
21. ALL DUCT AND PIPING PENETRATIONS THROUGH TILT WALL PANELS SHALL BE COORDINATED BETWEEN THE TILT WALL AND MECHANICAL SUBCONTRACTORS PRIOR TO WALL PANEL FORMING OR DUCT FABRICATION.
22. THE FINISH OF ANY INTERIOR OR EXTERIOR EXPOSED MECHANICAL EQUIPMENT, DUCTWORK, FABRIC DUCT SYSTEMS, LOUVERS, ETC. SHALL BE CONFIRMED WITH THE ARCHITECT.
23. ALL DOORS TO INDIVIDUAL TOILETS, JANITORS CLOSETS AND OTHER SMALL SPACES WITHOUT RETURN GRILLS ARE TO BE UNDERCUT MINIMUM 1/2".
24. MOUNT SPACE MOUNTED SENSORS AT 48" TO THE CENTER UNLESS NOTED OTHERWISE.
25. ALL WALL SENSORS INSTALLED IN PUBLIC SPACES SUCH AS CORRIDORS, LOBBY, EXHIBIT, AND CONCESSIONS SHALL BE PROVIDED WITH LOCKABLE VANDAL RESISTANT COVERS.
26. ALL WALL SENSORS SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE WITH 1/4" HIGH LETTERS INDICATING THE ASSOCIATED MECHANICAL EQUIPMENT IT SERVES.
27. ALL THREE PHASE MOTORS SHALL HAVE PHASE LOSS / ROTATION MONITORS.
28. PROVIDE MOTOR STARTERS FOR ALL MOTORS THAT ARE REQUIRED TO BE CONTROLLED THAT ARE NOT BEING PROVIDED WITH A VARIABLE FREQUENCY DRIVE.
29. ALL REFRIGERANT LINE RUNS SHALL BE SIZED AND INSULATED PER THE MANUFACTURER'S RECOMMENDATIONS. UNLESS NOTED OTHERWISE, PROVIDE PVC CHASES UNDERGROUND WITH DIRECT PATH TO CONDENSING UNIT TO MINIMIZE LINE SET LENGTHS AS MUCH AS POSSIBLE. ALL REFRIGERANT LINES INSTALLED EXPOSED OUTDOORS SHALL BE NEATLY RACK MOUNTED AND PROVIDED WITH ALUMINUM JACKETING.
30. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OF THE ROOF MOUNTED PLUMBING VENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. THE CODE MINIMUM SEPARATION BETWEEN OUTDOOR AIR.
31. ALL PIECES OF MECHANICAL EQUIPMENT REQUIRING ACCESS LOCATED ABOVE HARD CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS SIZED PER DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATION, WHICHEVER IS LARGER. COORDINATE STYLE/COLOR/LOCATIONS OF PANEL WITH A/E/O.
32. WHEN A CEILING CAVITY IS TO BE USED AS A RETURN PLENUM. ALL COMPONENTS (I.E., PIPING, WIRING, ETC.) INSTALLED WITHIN THE CEILING CAVITY SHALL BE PLENUM RATED. AS REQUIRED BY THE FLORIDA BUILDING CODE. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES TO ENSURE ALL COMPONENTS ARE PLENUM RATED.

MECHANICAL RENOVATION NOTES

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE BY DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. THE CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. THE CONTRACTOR SHALL FIELD VERIFY AND CONFIRM THE CONDITION AND FUNCTIONALITY OF ALL EXISTING FINISHES, EQUIPMENT AND SYSTEMS TO REMAIN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL EXISTING CONDITIONS SHALL BE DOCUMENTED WITH PHOTOGRAPHIC OR VIDEO RECORDS. ANY FINISHES, SYSTEMS OR EQUIPMENT DEFICIENCIES SHALL BE DOCUMENTED AND CONFIRMED WITH THE OWNER / ENGINEER UPON COMPLETION OF THE VERIFICATION EFFORT. UPON COMPLETION OF THE PROJECT, ALL EXISTING EQUIPMENT AND SYSTEMS SHALL BE FULLY FUNCTIONAL AND FREE OF ANY DEFECTS NOT DOCUMENTED IN PRE-CONSTRUCTION VERIFICATION EFFORTS. IT WILL BE ASSUMED THAT ALL EXISTING FINISHES, SYSTEMS OR EQUIPMENT WERE IN PROPER CONDITION PRIOR TO THE CONSTRUCTION AND WILL BE REQUIRED TO BE CORRECTED BY THE CONTRACTOR UNLESS DOCUMENTATION IS PROVIDED INDICATING OTHERWISE.
3. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. THE PROJECT CONSTRUCTION SHALL PROCEED AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
4. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNER'S REQUEST DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST.
5. ALL EXISTING HVAC EQUIPMENT IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, PIPING AND DUCTWORK, ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.
6. ALL PATCHING AND REPAIR OF EXISTING WALLS, CEILINGS, ROOFS, EARTH, WALKWAYS, PAVEMENT, ETC. SHALL BE PROVIDED BY THE CONTRACTOR. ALL ELEMENTS OF THE PROJECT DISTURBED BY THE CONSTRUCTION SHALL BE RETURNED TO "LIKE NEW" CONDITION TO MATCH THE ADJACENT SURROUNDINGS.
7. AN ATTEMPT HAS BEEN MADE TO FULLY VERIFY ALL EXISTING CONDITIONS IMPACTED BY THIS PROJECT. HOWEVER, THE DESIGN IS DIAGRAMMATIC AND THERE MAY BE EXISTING CONDITIONS THAT WILL REQUIRE ADJUSTMENTS TO THE LAYOUTS DEPICTED IN THE DOCUMENTS. IN ADDITION, THERE MAY BE ADJUSTMENTS REQUIRED TO EXISTING CONDITIONS TO ACCOMMODATE THE NEW SYSTEMS SUCH AS EXISTING PLUMBING PIPING, WIRING AND CONDUITS, ETC. ANY ADJUSTMENT TO THE SYSTEMS AND / OR ADJUSTMENTS TO EXISTING CONDITIONS SHALL BE PROVIDED AS REQUIRED TO ACCOMMODATE THE PROJECT SCOPE.
8. PORTIONS OF THE EXISTING CEILINGS AND LIGHT FIXTURES ARE GOING TO HAVE TO BE REMOVED TO ACCOMPLISH THE HVAC RENOVATION. THE EXTENT OF THE CEILING AND LIGHT FIXTURE REMOVAL IS TO BE FIELD VERIFIED BY THE CONTRACTOR AND BE AS MINIMAL AS POSSIBLE TO ACHIEVE THE PROJECT SCOPE. ANY DAMAGED CEILING TILES, CEILING GRID OR LIGHT FIXTURES SHALL BE REPLACED WITH NEW TO MATCH THE EXISTING.

COMMISSIONING SCOPE

1. INDEPENDENT COMMISSIONING SERVICES WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR AND ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL COMMISSIONING PROCEDURES AND ACTIVITIES.
2. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE OWNER'S COMMISSIONING AUTHORITY (CXA) SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
3. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED.
4. OWNER'S COMMISSIONING SERVICES REQUIREMENTS: COMMISSIONING SERVICES SHALL BE PROVIDED THROUGH A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE SECTION C408. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEMS COMMISSIONING AND COMPLETION SHALL BE PROVIDED. COPIES OF THE REQUIRED COMMISSIONING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND MADE AVAILABLE TO THE CODE OFFICIAL UPON REQUEST.

TEST AND BALANCE SCOPE

1. THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER SHALL PROVIDE INDEPENDENT THIRD PARTY TEST AND BALANCE SERVICES.
2. THE ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL TEST AND BALANCE PROCEDURES AND ACTIVITIES.
3. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE THIRD PARTY TEST AND BALANCE CONTRACTOR SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
4. REFER TO SPECIFICATIONS FOR PRELIMINARY AND FINAL PERFORMANCE VERIFICATION REQUIREMENTS.
5. A TEST AND BALANCE SHALL BE PERFORMED ON ANY SYSTEMS TO REMAIN THAT ARE UNDERGOING RENOVATION. THE EXISTING SYSTEM PERFORMANCE SHALL BE CONFIRMED PRIOR TO THE START OF THE RENOVATION. ANY SYSTEM OR PERFORMANCE DEFICIENCIES NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER FOR DIRECTION ON HOW TO PROCEED.

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: BPC
DRAWN BY: BPC
REVIEWED BY: JLS
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JOHN PENNEKAMP

Sheet Title: GENERAL NOTES - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

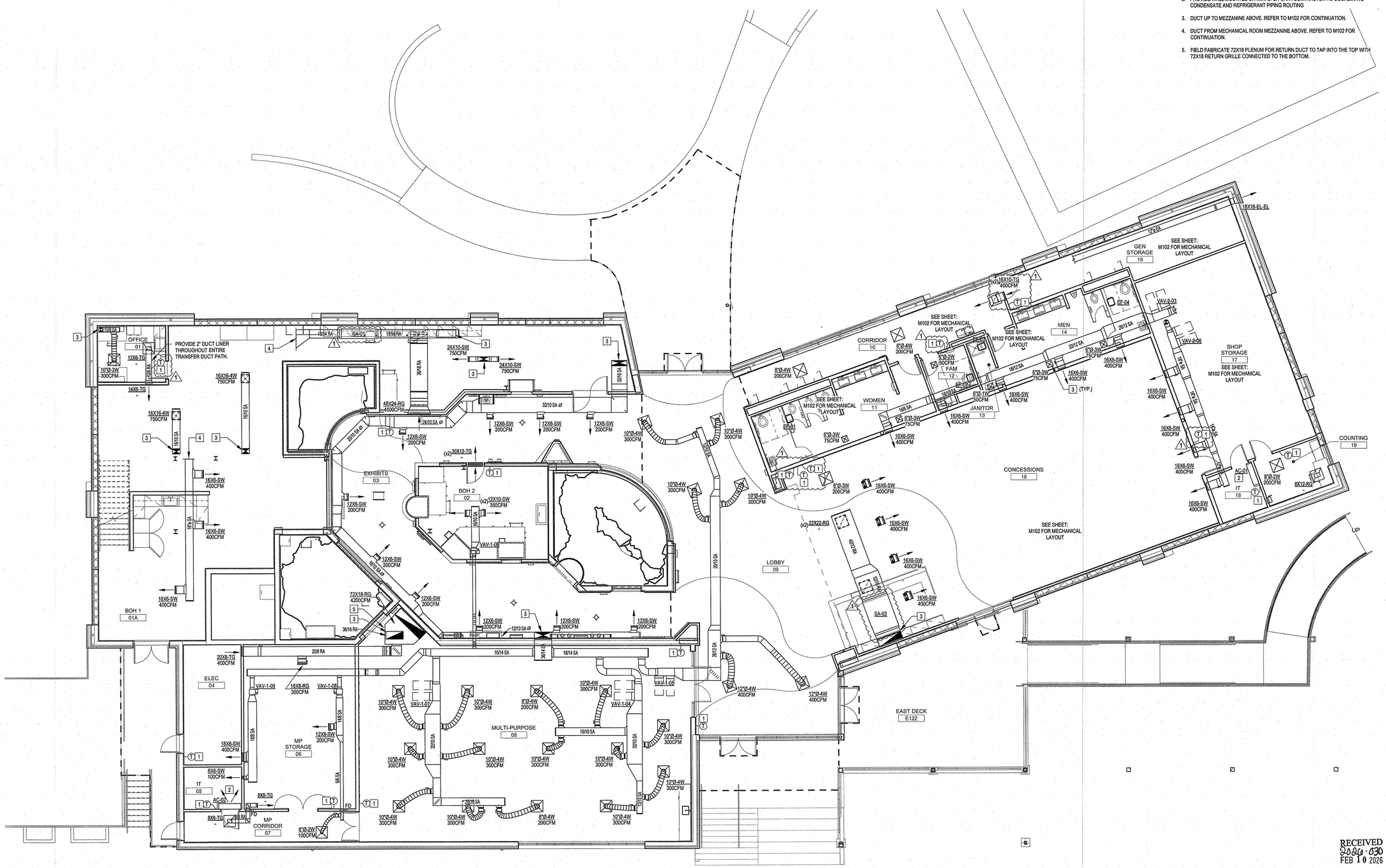
Sheet Number: M001

PLOTTED: 12/9/2025 10:33:42 AM

12/9/2025 10:33:42 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

H.V.A.C. KEYNOTES [X]:

1. PROVIDE WALL MOUNTAIN DIGITAL THERMOSTAT. CONTRACTOR TO COORDINATE FINAL LOCATION WITH ARCHITECT/OWNER.
2. PROVIDE WALL MOUNTED DX-MINI SPLIT UNIT. CONTRACTOR TO COORDINATE CONDENSATE AND REFRIGERANT PIPING ROUTING
3. DUCT UP TO MEZZANINE ABOVE. REFER TO M102 FOR CONTINUATION.
4. DUCT FROM MECHANICAL ROOM MEZZANINE ABOVE. REFER TO M102 FOR CONTINUATION.
5. FIELD FABRICATE 72X18 PLENUM FOR RETURN DUCT TO TAP INTO THE TOP WITH 72X18 RETURN GRILLE CONNECTED TO THE BOTTOM.



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1 FIRST FLOOR PLAN - HVAC
1/8" = 1'-0"

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DCGI ASSOCIATES, INC

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: BPC
DRAWN BY: BPC
REVIEWED BY: JLS
Consultant: DCGI ASSOCIATES
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JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: M101

PLOTTED: 12/12/2025 10:19:52 AM

12/12/2025 10:19:52 AM
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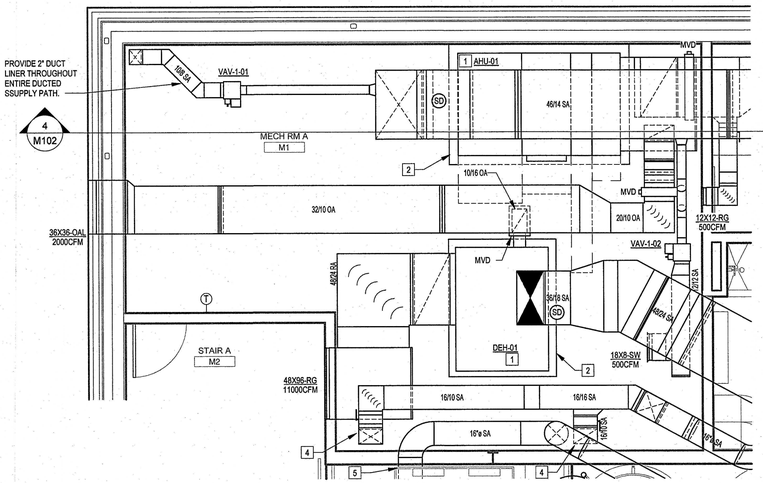
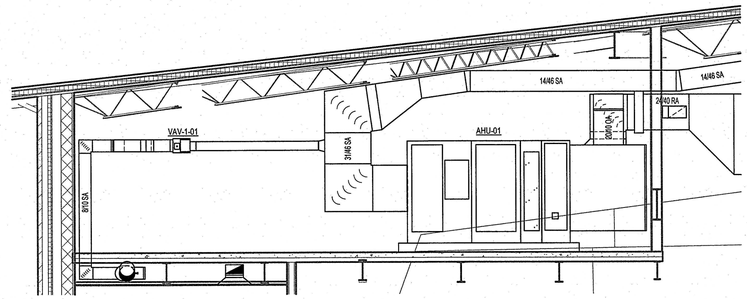


2 ENLARGED PLAN - MECH ROOM - HVAC

1/4" = 1'-0"



4 SECTION - MECH MEZZANINE - HVAC

1/4" = 1'-0"

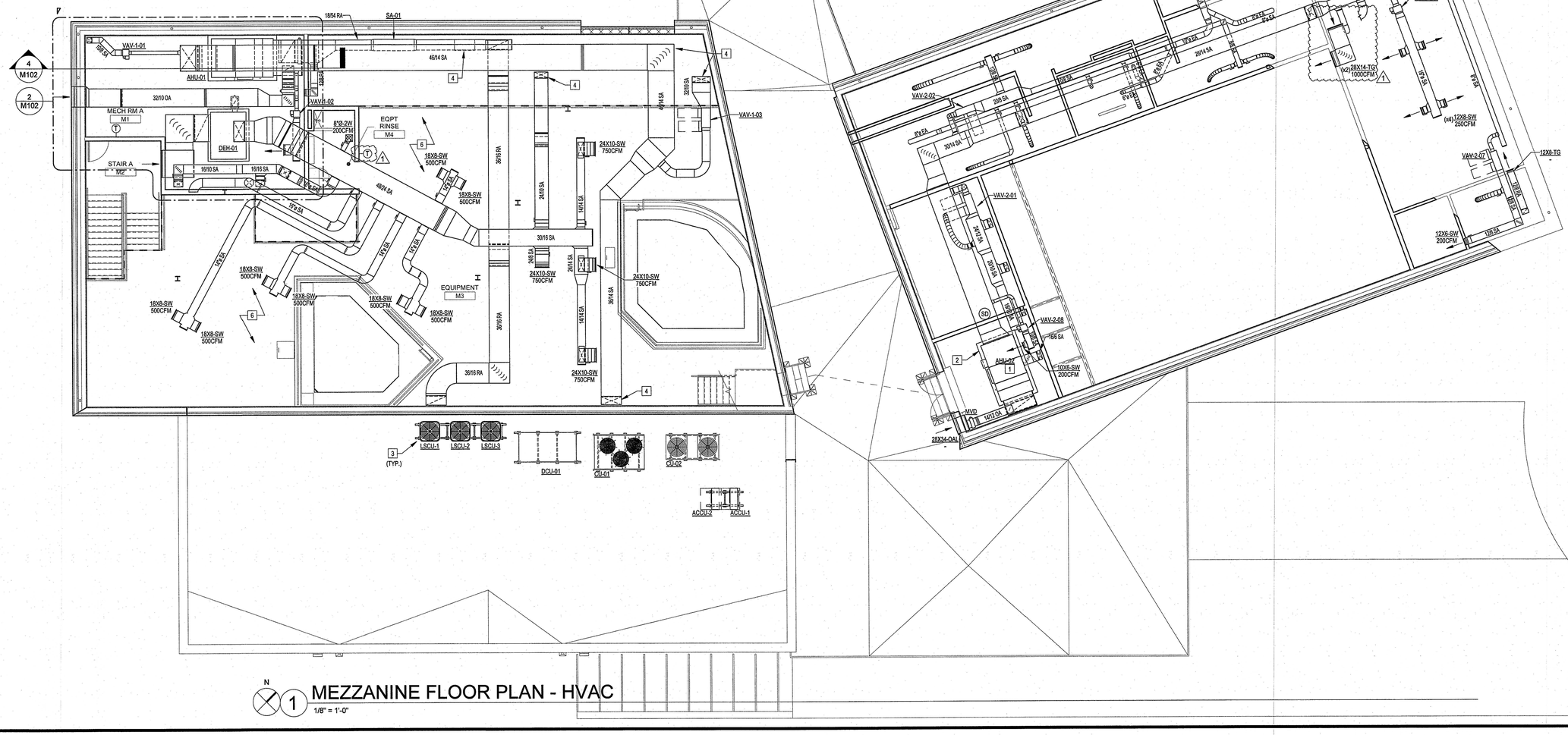
H.V.A.C. KEYNOTES [X]:

1. PROVIDE DX-AIR HANDLING UNIT ON 6" A.F.F. CONCRETE PAD. MAINTAIN ALL EQUIPMENT CLEARANCES PER MANUFACTURER'S REQUIREMENTS. PROVIDE CONDENSATE DRAIN PIPING WITH P-TRAP AND TIE INTO CONDENSATE DRAIN PIPE SHOWN ON PLUMBING DRAWINGS. CONTRACTOR TO COORDINATE CONDENSATE PIPE ROUTING AND DISCHARGE LOCATION ACCORDINGLY ON-SITE.
2. PROVIDE 6" THICK CONCRETE HOUSEKEEPING PAD. PAD SHALL EXTEND A MINIMUM OF 4" BEYOND EQUIPMENT ON ALL SIDES. VERIFY PAD DIMENSIONS WITH EQUIPMENT SUPPLIED.
3. PROVIDE PRE-ENGINEERED ROOF SUPPORT FOR CONDENSING UNITS EQUAL TO MIAMI TECH ASMU. SUPPORT STAND SHALL BE ENGINEERED TO MEET THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE WITH NOA. USE VIBRATION ISOLATION FOR UNIT CONNECTION TO STAND.
4. DUCT DOWN TO FIRST FLOOR. REFER TO M101 FOR CONTINUATION.
5. PENETRATE THROUGH SIDE WALL ABOVE THE FLOOR OF THE MEZZANINE INTO FIRST FLOOR SPACE BELOW. REFER TO M101 FOR CONTINUATION.
6. MUCH OF THE SUPPLY AIR DISTRIBUTION DUCTWORK IS ROUTED UP WITHIN THE JOIST WEBS. THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE FRAMING CONTRACTOR TO ENSURE PATHWAYS ARE COORDINATED FOR THE DUCT ROUTING PRIOR TO DUCT OR FRAMING PRODUCTION.

GENERAL NOTES:

A. ROUTE FULL SIZE CONDENSATE DRAIN LINE WITH P-TRAP TO HUB DRAIN PROVIDED BY PLUMBING CONTRACTOR. COORDINATE DRAIN LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

B. ROUTE REFRIGERANT LINES FROM AIR HANDLING UNITS TO ASSOCIATED CONDENSING UNITS. SIZE AND INSULATE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS. ALL EXPOSED INSULATION ABOVE THE ROOF SHALL BE PROVIDED WITH ALUMINUM JACKETING.



1 MEZZANINE FLOOR PLAN - HVAC

1/8" = 1'-0"

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: MEZZANINE FLOOR PLAN - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: M102

PLOTTED: 12/12/2025 10:20:05 AM

12/12/2025 10:20:05 AM
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VAV UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	INLET SIZE	PRIMARY AIR CFM		HEATING	ΔP	AUXILIARY ELECTRIC HEAT			NOTES
				MAX.	MIN.	CFM	(IN. W.G.)	KW	VOLTS/PH.	STEPS	
VAV-1-01	Trane	VCCF	6	500	175	0	0.23	0	208/3		1,2,3,4
VAV-1-02	Trane	VCEF	6	500	175	0	0.23	0	208/3		1,2,3,4
VAV-1-03	Trane	VCEF	14	3000	1050	1500	0.01	15	208/3	2	1,2,3,4
VAV-1-04	Trane	VCEF	14	1400	490	700	0.01	7	208/3	2	1,2,3,4
VAV-1-05	Trane	VCEF	14	3000	1050	1500	0.01	15	208/3	SCR	1,2,3,4
VAV-1-06	Trane	VCCF	6	500	175	0	0.23	0	208/3		1,2,3,4
VAV-1-07	Trane	VCEF	14	1400	490	700	0.01	7	208/3	2	1,2,3,4
VAV-1-08	Trane	VCCF	8	900	315	0	0.09	0	208/3		1,2,3,4
VAV-1-09	Trane	VCCF	8	900	315	0	0.09	0	208/3		1,2,3,4
VAV-2-01	Trane	VCEF	10	1400	490	700	0.05	7	208/3	2	1,2,3,4
VAV-2-02	Trane	VCEF	8	900	315	450	0.11	4.5	208/3	1	1,2,3,4
VAV-2-03	Trane	VCEF	14	3000	1050	1500	0.01	15	208/3	SCR	1,2,3,4
VAV-2-04	Trane	VCCF	6	500	175	0	0.23	0	208/3		1,2,3,4
VAV-2-05	Trane	VCCF	10	1400	490	0	0.01	0	208/3		1,2,3,4
VAV-2-06	Trane	VCEF	10	1400	490	700	0.05	7	208/3	2	1,2,3,4
VAV-2-07	Trane	VCEF	6	500	175	250	0.23	2.5	208/3	1	1,2,3,4
VAV-2-08	Trane	VCCF	5	350	125	0	0.02	0	208/3		1,2,3,4

NOTES:
1. PROVIDE WITH INTEGRAL STEP DOWN TRANSFORMER FOR CONTROL POWER. COORDINATE VOLTAGE WITH ELECTRICAL CONTRACTOR.
2. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
3. PROVIDE WITH NORMALLY OPEN SPRING LOADED DAMPER.
4. PROVIDE 2" DUCT LINER DOWNSTREAM OF ALL VAV TERMINALS. MINIMUM OF 5'-0" WHERE APPLICABLE.

MAXIMUM SOUND POWER LEVELS:

OCTAVE BAND	2	3	4
DISCHARGE	64	59	56
RADIATED	54	48	43

SPLIT SYSTEM UNIT SCHEDULE

MARK	AREA SERVED	AIR FLOW (CFM)	OUTSIDE AIR (CFM)	FAN DATA				ELECTRICAL DATA			COOLING COIL DATA			WEIGHT (LBS.)	BASIS OF DESIGN		NOTES
				E.S.P. (IN. H2O)	FAN SPEED (RPM)	HP	FAN (FLA)	MCA	MOCP	VOLTAGE/ PHASE	EAT °F (DB/WB)	LAT °F (DB/WB)	CAPACITY - MBTU (SENS./TOTAL)		MANUFACTURER	MODEL #	
AHU-01	EXHIBIT & LOBBY	10000	1200	2.1	3409	4.02	50.0	60.0	80	208/3	78.1/65.4	55.0/50.8	351.5/253.4	2071.00 lbf	TRANE	PSCA021	1-12
AHU-02	CONCESSIONS	8000	850	2	3495	4.02	40.0	50.0	70	208/3	76.6/61.9	55.0/52.1	223.1/191.0	1638.00 lbf	TRANE	PSCA018	1-12

NOTES:
1. PROVIDE WITH WALL MOUNTED 7-DAY DIGITAL PROGRAMMABLE THERMOSTAT. COORDINATE WITH OWNER PRIOR TO ORDERING.
2. COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER.
3. PROVIDE WITH A SINGLE POINT OF CONNECTION FOR ELECTRIC HEATER AND FAN FOR INDOOR UNIT.
4. UNIT SHALL HAVE FULL ECONOMIZER FUNCTION DRY BULB SENSOR.
5. PROVIDE WITH SMOKE DETECTORS IN SUPPLY DUCTWORK TO SHUT THE UNIT DOWN UNDER ALARM CONDITIONS AS REQUIRED BY LOCAL/STATE CODES.
6. SINGLE ZONE VAV SYSTEM WITH INTEGRATED VFD ON SUPPLY FAN. PROVIDE WITH ALL ACCESSORIES REQUIRED FOR PROPER OPERATION DOWN TO 38% OF TOTAL CAPACITY/AIRFLOW.
7. PROVIDE AIR FLOW MEASURING STATION IN OUTSIDE AIR DUCT EQUAL TO EBTRON GOLD SERIES FOR OUTSIDE AIR FLOW MONITORING AND CONTROL.
8. PROVIDE WITH CONDENSATE PUMP AS REQUIRED.
9. PROVIDE WITH CONDENSING COIL GAURDS.
10. PROVIDE FACTORY APPLIED CORROSION RESISTANT MATERIAL SUITABLE FOR SEACOAST APPLICATION.
11. EACH AIR HANDLER AND ASSOCIATED CONDENSING UNIT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE SHOWING SPECIFIC UNIT DESIGNATION.
12. PROVIDE WITH FACTORY INSTALLED CONDENSATE FLOAT SWITCHES.
13. PROVIDE MINIMUM 0.15" DEFLECTION NEOPRENE ISOLATION MOUNTS ON THE EXTERIOR OF THE UNITS.
14. PROVIDE FLEXIBLE DUCT CONNECTORS AND FLEXIBLE ELECTRICAL CONNECTIONS FOR THE UNIT.

1 * PROVIDE AIR HANDLUNG UNITS THAT DO NOT EXCEED THE SOUND POWER (Lw) LIMITS AS FOLLOWS:

FREQUENCY	63	125	250	500	1000	2000	4000	8000
SUPPLY	76	80	90	85	85	82	81	80
RETURN	85	82	95	90	85	85	80	80

SPLIT SYSTEM CONDENSING UNIT SCHEDULE

MARK	UNIT SERVED	COOLING	CONDENSER FANS		COMPRESSOR(S)			ELECTRICAL			WEIGHT (LBS.)	SEER [EER] (MINIMUM)	BASIS OF DESIGN		NOTES
		TOTAL CAPACITY (MBTUH)	QTY	FLA	QTY	RLA (EACH)	REFRIGERANT	VOLTS/PH.	MCA	MOCP			MANUFACTURER	MODEL	
CU-01	EXHIBIT & LOBBY	358.2	3	4.1	3	45	R454-B	208/3	159.0	200	2077	[10.5]	TRANE	RASPLIT	1-22
CU-02	CONCESSIONS	223.1	2	4.3	2	45.1	R454-B	208/3	112.0	150	802	[12.5]	TRANE	TTA240K3	1-22
DCU-01	BOH 1 & 2	308.6	2	7.5	2	40.4	R454-B	208/3	21.0	25	1300	N/A	DECTRON	NG-V-12	1-22

NOTES:
1. COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER. PROVIDE MANUFACTURER'S ACCESSORIES RECOMMENDED FOR LONG LINE APPLICATIONS WHEN THE EQUIVALENT LENGTH EXCEEDS 75 FT. UPSIZE THE VAPOR LINE TO MINIMIZE THE COOLING CAPACITY LOSS TO LESS THAN 3%.
2. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.
3. PROVIDE ANTI-CORROSION CONDENSER COIL COATING RATED FOR 5000 HOUR SALT SPRAY TEST PER ASTM B117.
4. PROVIDE HOT GAS BYPASS FOR CAPACITY MODULATION.
5. PROVIDE COMPRESSOR PHASE/VOLTAGE MONITOR.
6. PROVIDE OEM FACTORY START UP.
7. PROVIDE VARIABLE SPEED COMPRESSOR.
8. PROVIDE ACCOUSTICAL TREATMENT TO MEET SPECIFIED SOUND DATA.
9. UNIT CONTROL SHALL HAVE INPUTS FOR AIR HANDLER LEAK DETECTION SYSTEM AND SHALL NOT OPERATE WITHOUT CONNECTION TO LEAK DETECTION SYSTEM.
10. REFRIGERANT TO BE R454B OR COMPARABLE W/ GWP BELOW 500.
11. PROVIDE LOUVERED COIL GAURDS.
12. UPON POWER LOSS EQUIPMENT TO BE CAPABLE OF PROVIDING FULL COOLING WITHIN 120 SECONDS ONCE POWER IS RESTORED.
13. PROVIDE NEOPRENE VIBRATION ISOLATION PADS.
14. PROVIDE ANTI-SHORT CYCLE TIMER.
15. PROVIDE FACTORY MOUNTED 7" LCD DISPLAY W/ LOSS OF CHARGE DIAGNOSTICS.
16. ADAPTIVE CONTROLS SHALL INCLUDE ALL NECESSARY COMPONENTS, SENSORS, AND CONTROL ALGORITHMS TO MAINTAIN STABLE COMPRESSOR/ REFRIGERANT SYSTEM OPERATION. SHALL INCLUDE MODULATION CAPABILITY OF COMPRESSORS, CONDENSER FANS, AND EXPANSION VALVES.
17. PROVIDE 1ST YEAR PARTS AND LABOR WARRANTY BY OEM MANUFACTURER.
18. PROVIDE 2ND-5TH YEAR COMPRESSOR PARTS WARRANTY BY OEM MANUFACTURER.
19. PROVIDE FACTORY INSTALLED HEAD PRESSURE CONTROL.
20. PROVIDE MINIMUM 1.5" DEFLECTION LIMIT STOP/RESTRAINED SPRING ISOLATION MOUNTS ON ALL CONDENSER UNITS.
21. PROVIDE FLEXIBLE PIPING AND ELECTRICAL CONNECTIONS.
22. PROVIDE THE FIRST 50-FEET OF PIPING FROM THE CONNECTION TO THE CONDENSER UNIT IS ISOLATED WITH NEOPRENE ISOLATION MOUNTS OR PADS.

SOUND ATTENUATOR SCHEDULE

MARK	AREA SERVED	DIMENSIONS			AIR DIRECTION	FLOW (CFM)	VELOCITY (FPM)	PD (in.w.g.)	OCTAVE BAND (dB)	BASIS OF DESIGN	
		LENGTH	WIDTH	HEIGHT						MANUFACTURER	MODEL
SA-01	EXHIBIT & LOBBY	72"	18"	54"	REVERSE	8300	600	0.15	5	PRICE INDUSTRIES	RL
1 SA-02	CONCESSIONS	72"	54"	18"	REVERSE	7150	600	0.15	5	PRICE INDUSTRIES	RL

EXHAUST FAN SCHEDULE

MARK	AREA SERVED	FAN TYPE	FAN				MOTOR			BASIS OF DESIGN		NOTES
			CFM	ESP (in-wg)	RPM	SONES	HP [WATTS]	VOLTS/PH.	AMPS	MANUFACTURER	MODEL	
EF-01	WOMENS RR -11	CABINET	200	0.25	836	1.5	[43]	120/1	0.36	GREENHECK	SP-A200	1,2,3,5
EF-02	FAMILY RR - 12	CABINET	70	0.25	688	1.3	[20]	120/1	0.17	GREENHECK	SP-B90	1,2,3,5
EF-03	JANITOR CL - 13	CABINET	70	0.25	688	1.3	[20]	120/1	0.17	GREENHECK	SP-B90	1,2,3,5
EF-04	MENS RR - 14	CABINET	200	0.25	836	1.5	[43]	120/1	0.36	GREENHECK	SP-A200	1,2,3,5
EF-05	SEAWATER PUMP SHED	ROOFTOP	120	0.25	1084	4.5	[25]	120/1	0.21	GREENHECK	G-080-G	1,2,3,4

NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER.
2. PROVIDE DISCONNECT SWITCH MOUNTED AT THE UNIT.
3. DIRECT DRIVE HIGH EFFICIENCY MOTOR WITH SOLID STATE SPEED CONTROL.
4. FAN SHALL RUN CONTINUOUSLY.
5. PROVIDE OCCUPANCY SENSOR WITH OFF DELAY TIMING ADJUSTABLE 1-60 MINUTES.

DEHUMIDIFICATION SYSTEM SCHEDULE

MARK	AREA SERVED	PERFORMANCE DATA			ESP (IN.WG.)	ROOM COND. (FDB/%RH)	AUXILIARY HEAT			ELECTRICAL DATA		WEIGHT (LBS.)	BASIS OF DESIGN		NOTES
		SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	MOISTURE REMOVAL (LB/HR)			TYPE	CAPACITY (kW)	CONTROL	FLA	VOLTS/PH.		MANUFACTURER	MODEL	
DEH-01	BOH 1 & 2	11,700	750	63	0.5	75/48	ELEC	40.0	MODULATING	213.6	208/3	2,600	DECTRON	NG-V-12	1-15

NOTES:
1. WATER REMOVAL PERFORMANCE BASED ON 70 DEGREE F @ 60% RH.
2. PROVIDE MERV-13 FILTER.
3. PROVIDE UNIT WITH BUILT-IN ON-OFF SWITCH AND HUMIDITY LEVEL SELECTOR.
4. DDC CONTROLS SHALL PROVIDE HUMIDISTAT IN THE ROOM SERVED TO MONITOR ROOM R.H. LEVELS. SIGNAL ALARM OVER 65% R.H.
5. COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER.
6. PROVIDE WITH A SINGLE POINT OF CONNECTION FOR ELECTRIC HEATER AND FAN FOR INDOOR UNIT.
7. PROVIDE WITH SMOKE DETECTORS IN SUPPLY DUCTWORK TO SHUT THE UNIT DOWN UNDER ALARM CONDITIONS AS REQUIRED BY LOCAL/STATE CODES.
8. PROVIDE AIR FLOW MEASURING STATION IN OUTSIDE AIR DUCT EQUAL TO EBTRON GOLD SERIES FOR OUTSIDE AIR FLOW MONITORING AND CONTROL.
9. PROVIDE WITH CONDENSATE PUMP AS REQUIRED.
10. PROVIDE WITH CONDENSING COIL GAURDS.
11. PROVIDE FACTORY APPLIED CORROSION RESISTANT MATERIAL SUITABLE FOR SEACOAST APPLICATION.
12. EACH AIR HANDLER AND ASSOCIATED CONDENSING UNIT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE SHOWING SPECIFIC UNIT DESIGNATION.
13. PROVIDE WITH FACTORY INSTALLED CONDENSATE FLOAT SWITCHES.
14. PROVIDE MINIMUM 0.15" DEFLECTION NEOPRENE ISOLATION MOUNTS ON THE EXTERIOR OF THE UNITS.
15. PROVIDE FLEXIBLE DUCT CONNECTORS AND FLEXIBLE ELECTRICAL CONNECTIONS FOR THE UNIT.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK / LEGEND	TYPE	MANUFACTURER	MODEL	NOTES
NECK SIZE → 8'0-4W ← THROW PATTERN AIR FLOW → 200CFM	CEILING MOUNTED SQUARE PLAQUE SUPPLY DIFFUSER	PRICE	SPD	1, 3, 4, 5, 6
NECK SIZE → 12X8-SW AIR FLOW → 200CFM	SIDEWALL MOUNTED RECTANGULAR SUPPLY DIFFUSER	PRICE	600	4, 5
NECK SIZE → 12X12-RG AIR FLOW → 200CFM	CEILING OR SIDEWALL MOUNTED RETURN AIR GRILLE	PRICE	80	1, 2, 3, 4, 5
NECK SIZE → 12X12-TG AIR FLOW → 200CFM	CEILING OR SIDEWALL MOUNTED TRANSFER AIR GRILLE	PRICE	ATG	1, 2, 3, 4, 5
NECK SIZE → 24X24-OAL AIR FLOW → 500CFM	WALL MOUNTED OUTSIDE AIR INTAKE LOUVER	GREENHECK	EHV-550D	5, 7, 8
NECK SIZE → 24X24-EAL AIR FLOW → 500CFM	WALL MOUNTED EXHAUST DISCHARGE LOUVER	GREENHECK	EHV-550D	5, 7, 8

NOTES:
1. PROVIDE 24X24 OR 24X12 LAY-IN MODULE WHERE LOCATED IN LAY-IN CEILING.
2. NECK SIZE IS 22X22 UNLESS NOTED OTHERWISE ON FLOOR PLANS.
3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
5. COORDINATE FINISH WITH ARCHITECT.
6. COORDINATE THROW PATTERN WITH FLOOR PLANS.
7. PROVIDE COMPLETE WITH WALL SLEEVE AND BIRD SCREEN.
8. LOUVER SHALL HAVE FLORIDA PRODUCT APPROVAL FOR WIND LOAD, AMCA 540 AND AMCA 550 AND MUST BE INSTALLED IN ACCORDANCE WITH ITS REQUIREMENTS.

SOUND REQUIREMENTS:
A. PRIVATE OFFICES AND MULTI-PURPOSE = NC 20
B. CORRIDORS AND CONCESSION = NC 35
C. LOBBY AND EXHIBITS = NC 30

DUCT CONSTRUCTION SCHEDULE

SERVICE	SMACNA PRESSURE CLASS	MATERIAL	INSULATION	NOTES
SUPPLY AIR DUCTS				
FROM AHU CONNECTION TO 20 FEET DOWNSTREAM ON SUPPLY SIDE FOR VAV SYSTEMS OR EXPOSED VAV SUPPLY BEYOND 20 FEET.	+4"	DOUBLEWALL ROUND / FLAT OVAL OR RECTANGULAR COMPLETE WITH PERFORATED INNER LINER AND MYLAR FILM SEPARATING INSULATION FROM AIR STREAM	2" THICK INTERNALLY LINED	1, 2
FROM 20 FEET DOWNSTREAM OF AHU TO TERMINAL UNIT FOR VAV SYSTEMS WHERE DUCT IS CONCEALED ABOVE CEILINGS	+4"	SINGLE WALL SHEET METAL ROUND / FLAT OVAL OR RECTANGULAR	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	1
DOWNSTREAM OF VAV TERMINALS	+2"	SINGLE WALL SHEET METAL	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	1
ALL LOW PRESSURE EXPOSED DUCTWORK IN PUBLIC AREAS	+2"	DOUBLEWALL ROUND COMPLETE WITH PERFORATED INNER LINER AND MYLAR FILM SEPARATING INSULATION FROM AIR STREAM	2" THICK INTERNALLY LINED	1, 2
RETURN AIR DUCTS				
FROM AHU CONNECTION TO 20 FEET UPSTREAM ON RETURN SIDE FOR ALL AHU'S AND ALL EXPOSED RETURN AIR DUCTWORK	-2"	DOUBLEWALL RECTANGULAR COMPLETE WITH PERFORATED INNER LINER AND MYLAR FILM SEPARATING INSULATION FROM AIR STREAM. PROVIDE ROUND OR FLAT OVAL AS SHOWN ON THE DRAWINGS WHERE DUCTWORK IS EXPOSED.	2" THICK INTERNALLY LINED	1, 2
ALL OTHER RETURN AIR DUCTWORK	-2"	SINGLE WALL SHEET METAL	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	1
OUTSIDE AIR DUCTS				
ALL INTERIOR OUTSIDE AIR DUCTWORK	-2"	SINGLE WALL SHEET METAL	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	1
TRANSFER AIR DUCTS				
ALL TRANSFER AIR DUCTWORK	+1"	SINGLE WALL SHEET METAL	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	1
EXHAUST AIR DUCTS				
GENERAL BATHROOM EXHAUST DUCTS	-2"	SINGLE WALL SHEET METAL. SPIRAL ROUND DUCT WHERE EXPOSED.	NONE	1

GENERAL NOTE:
- WHERE SUPPLY, RETURN OR OUTSIDE AIR DUCTWORK IS CALLED TO BE EXTERNALLY INSULATED AND IS EXPOSED IN MECHANICAL ROOMS, BLANKET DUCT WRAP MAY BE USED IN LIEU OF RIGID BOARD INSULATION.
- PROVIDE 2-INCH EXTERNAL ACOUSTICAL LAGGING FOR FOR ALL SUPPLY, RETURN, OUTSIDE, AND EXHAUST DUCTWORK. ALL THROUGHWALL PENETRATIONS ARE REQUIRED TO BE PACKED WITH FIBERGLASS AND SEALED AIR TIGHT.

NOTES:
1. ALL DUCTWORK IS TO BE FABRICATED, SUPPORTED AND INSTALLED PER SMACNA STANDARDS.
2. REFER TO SPECIFICATIONS FOR MATERIAL TO BE USED FOR INTERNAL LINING.
3. NO SNAPLOCK ROUND DUCTWORK PERMITTED.

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	AREA SERVED	AIR FLOW (CFM)	WATTS	VOLTS/PH.	FAN FLA	WEIGHT (LBS)	MANUFACTURER	MODEL #	NOTES
AC-01	IT ROOM - 18	705	56	208/1	0.4	46	Mitsubishi Electric	PKA-A24KA7	1,2,3,4
AC-02	IT ROOM - 05	705	56	208/1	0.4	46	Mitsubishi Electric	PKA-A24KA7	1,2,3,4

NOTES:
1. PROVIDE WITH WALL MOUNTED, HARDWIRED THERMOSTAT CONTROLLER.
2. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
3. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. SEE DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE THIS SHEET.

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	INDOOR UNIT SERVED	TOTAL CAP. (MBH)	CONDENSER FAN(S)			COMPRESSOR(S)				MCA	MOCP	WEIGHT (LBS)	EER/SEER	MANUFACTURER	MODEL #	NOTES
			QTY	VOLTS/PH.	FLA (EACH)	QTY	VOLTS/PH.	RLA (EACH)	LRA (EACH)							
ACCU-1	AC-01	24	1	208/1	0.8	1	208/1	12	14	18	30	151	17.0	Mitsubishi Electric	PUY-A24NHA7(-BS)	1
ACCU-2	AC-02	24	1	208/1	0.8	1	208/1	12	14	18	30	151	17.0	Mitsubishi Electric	PUY-A24NHA7(-BS)	1

NOTES:
1. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

Department of Environmental Protection
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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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DRAWN BY: BPC
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JOHN PENNEKAMP

Sheet Title: SCHEDULES - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: M401

PLOTTED: 12/12/2025 10:20:21 AM

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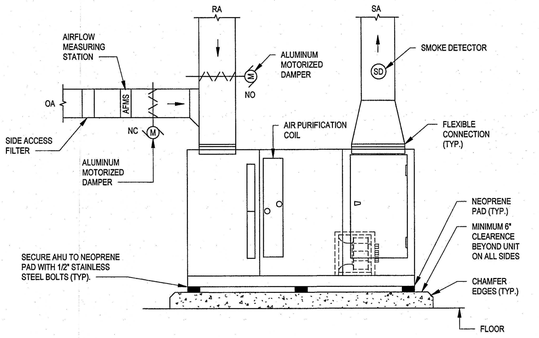
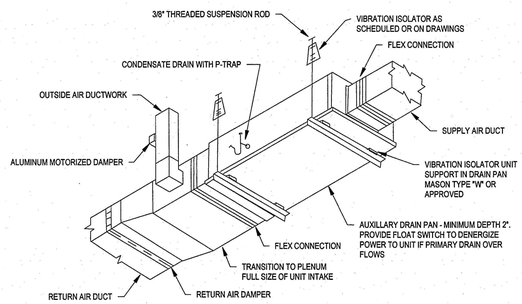
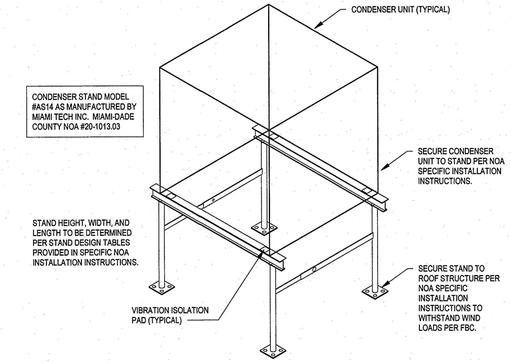


NOTES:
1. ACCESS DOORS AND AHU SECTIONS SHOWN ARE DIAGRAMATIC. COORDIANTE QUANTITIES AND LOCATIONS WITH ENLARGED MECHANICAL ROOM PLANS.
2. VERIFY CONDENSATE P-TRAP DIMENSION REQUIREMENTS PRIOR TO EQUIPMENT FABRICATION. PROVIDE WITH BASE RAIL HEIGHT AS REQUIRED TO ACCOMMODATE P-TRAP DEPTH WITH 4" THICK CONCRETE HOUSEKEEPING PAD.
3. PROVIDE MINIMUM OF 0.15" DEFLECTION FROM THE ISOLATION PADS.

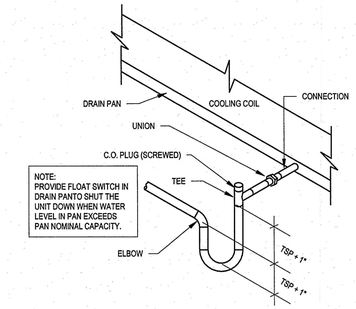
1 TYPICAL VAV AHU DETAIL
NTS



2 SUSPENDED HORIZONTAL AIR HANDLING UNIT
NTS



3 CONDENSER UNIT STAND ON ROOF DETAIL - HVHZ
NTS



4 CONDENSATE DRAIN - ISO
NTS

KEY NOTES:
1. BULB
2. DISTRIBUTOR
3. TX VALVE IN VERTICAL
4. EXTERNAL EQUALIZATION LINE
5. SIGHT GLASS
6. SOLENOID VALVE
7. FILTER DRIER

ALL REFRIGERANT PIPING, SIZES, TRAPS, ACCESSORIES, VALVES, ETC. SHALL BE PROVIDED PER THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER REFRIGERANT OPERATION.

5 DX COIL PIPING
NTS

NOTE:
- VERIFY LEFT/RIGHT ORIENTATION WITH THE PLANS.
- FOR VAV TERMINALS WITH ELECTRIC HEAT, PROVIDE SUPPLY AIR TEMPERATURE SENSOR.

6 VAV TERMINAL UNIT
NTS

7 TYPICAL LOUVER DETAIL
NTS

NOTE:
CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ANY CEILING ACCESS OPENINGS, WITH MANUFACTURER.

8 CEILING EXHAUST FAN DETAIL
NTS

ITEM DESCRIPTION
1. U.L. LISTED FIRE DAMPER OPERATOR (120V)
2. FUSIBLE ROD (135°F)
3. AUXILIARY OPERATING JACK SHAFT
4. DAMPER FRAME
5. FUSIBLE LINK WITH LOCK (135°F)
6. SLEEVE
7. NEGATOR SPRING
8. MOUNTING ANGLES (1 1/2" X 1 1/2" X 16 GA)
9. JOINT, BREAKAWAY
10. CAULKING MATERIAL
11. DUCT ACCESS DOOR
12. IDENTIFICATION LABEL: "FIRE DAMPER" (LETTERS A MIN. OF 1/2" IN HEIGHT)

9 FIRE SMOKE DAMPER DETAIL
NTS

NOTES:
1. FUSIBLE LINK
2. DUCT ACCESS DOOR
3. MOUNTING ANGLES (1-1/2" X 1-1/2" X 16 GA)
4. DAMPER FRAME
5. SLEEVE
6. JOINT, BREAK AWAY
7. IDENTIFICATION LABEL: "FIRE DAMPER" (LETTERS 1/2" MIN. HIEGHT)

10 FIRE DAMPER DETAIL
NTS

NOTES:
- FOR CONCRETE DECK ATTACHMENT UTILIZE STEEL CONCRETE INSERTS IN LIEU OF BEAM CLAMS SHOWN
- UNINSULATED PIPES DO NOT REQUIRE SADDLE

11 PIPE HANGER
NTS

NOTES:
- FOR CONCRETE DECK ATTACHMENT UTILIZE STEEL CONCRETE INSERTS IN LIEU OF BEAM CLAMS SHOWN
- UNINSULATED PIPES DO NOT REQUIRE SADDLE

12 PIPE TRAPEZE HANGER
NTS

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: DETAILS - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: M501

PLOTTED: 12/9/2025 10:34:17 AM

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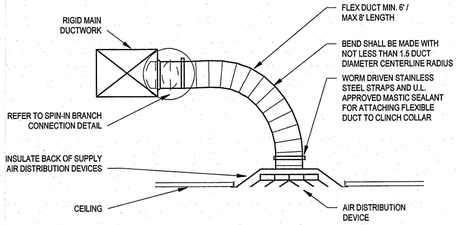
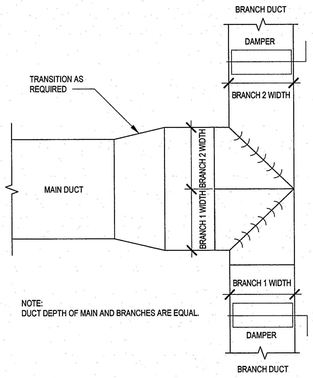
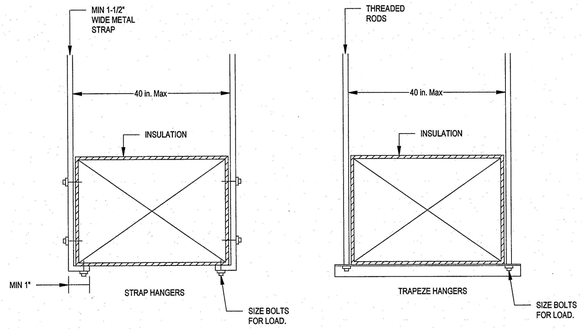


1 DIFFUSER AND FLEX DUCT DETAIL
NTS



2 DUCT WITH SPLITTER DAMPER
NTS



3 DUCTWORK SUPPORT
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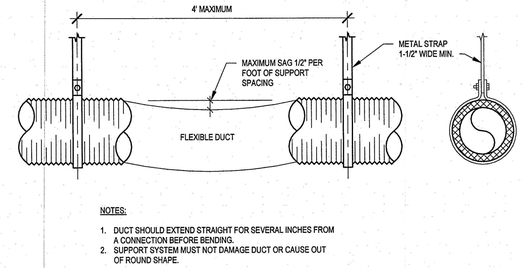

4 FLEX DUCT SUPPORT
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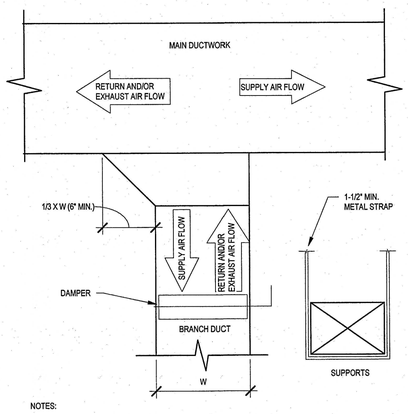
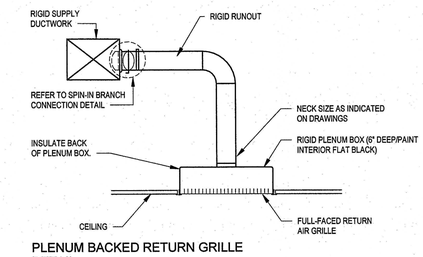
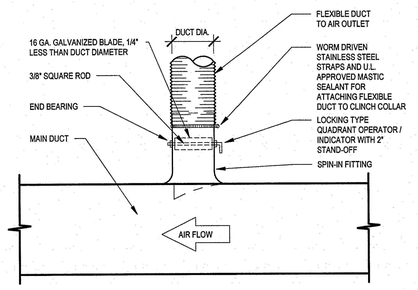


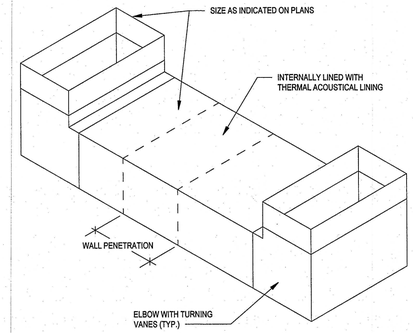
5 RECTANGULAR DUCT BRANCH
NTS



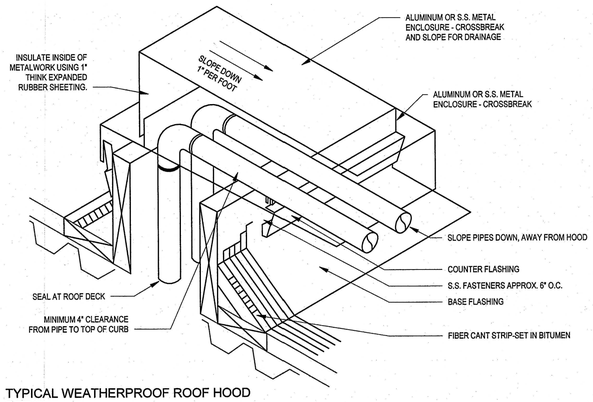
PLENUM BACKED RETURN GRILLE DETAIL
6 NTS



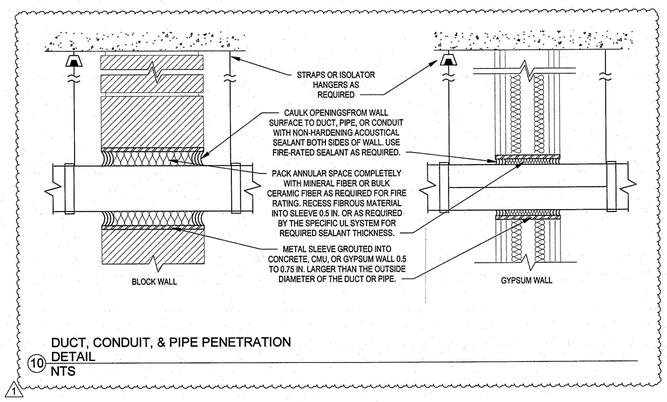
7 TYPICAL SPIN-IN BRANCH CONNECTION
NTS



8 TRANSFER DUCT
NTS



TYPICAL WEATHERPROOF ROOF HOOD DETAIL
9 NTS



DUCT, CONDUIT, & PIPE PENETRATION DETAIL
10 NTS

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

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Sheet Title: DETAILS - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
M502

PLOTTED:
12/12/2025 10:20:27 AM

12/12/2025 10:20:27 AM
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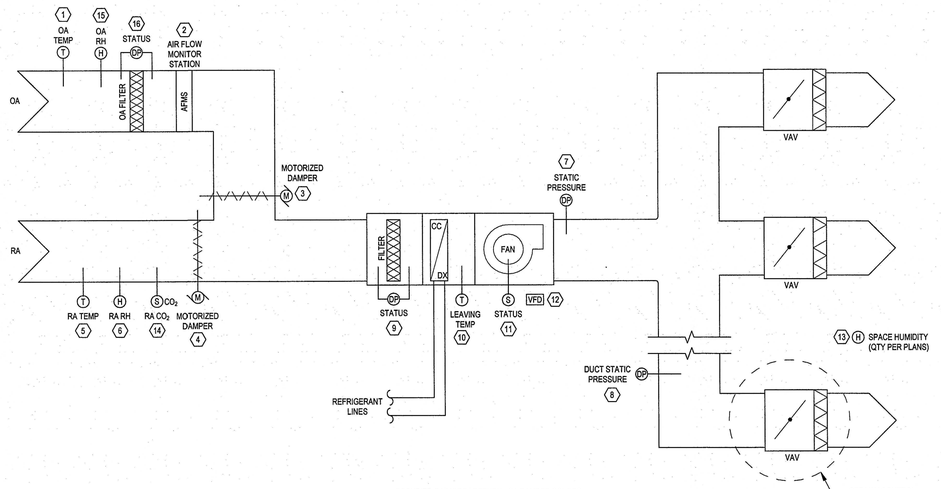
CONTROL POINTS (X)

CONTROL POINTS

1. OA TEMP
2. OA FLOW RATE
3. OA DAMPER POSITION
4. RA DAMPER POSITION
5. RA TEMP
6. RA RELATIVE HUMIDITY
7. HIGH STATIC LIMIT
8. DUCT SYSTEM STATIC PRESSURE
9. FILTER STATUS / DP
10. COIL LEAVING AIR TEMP
11. FAN STATUS
12. VFD INTERFACE
13. SPACE RELATIVE HUMIDITY
14. RETURN CO2
15. OA RELATIVE HUMIDITY
16. OA FILTER

ALARMS

1. SA HIGH STATIC
2. SA FAN FAILED TO START
3. SPACE RH ABOVE SETPOINT
4. CO2 LEVEL ABOVE SETPOINT
5. OA DAMPER FAILED



SUPPLY FAN CONTROL:

THE FAN CAN BE STARTED BASED ON ANY OF THE FOLLOWING CONDITIONS:

1. WHEN THE SYSTEM IS PUT INTO WARM UP / COOL DOWN MODE (THRU THE BMS SYSTEM).
2. WHEN THE SYSTEM IS PUT IN THE OCCUPIED MODE (THRU THE BMS SYSTEM).
3. WHEN THE SYSTEM IS IN THE UNOCCUPIED MODE WITH A CALL FOR TEMPERATURE OR DEHUMIDIFICATION OVERRIDE (THRU THE BMS SYSTEM).
4. WHEN THE SYSTEM IS MANUALLY PUT IN AN OVERRIDE MODE (THRU THE BMS SYSTEM).
5. IF THE HAND-OFF-AUTO SWITCH LOCATED ON THE VFD IS PUT IN THE HAND POSITION ONLY THE FAN STARTS.

WHEN THE UNIT IS STARTED BY EITHER 2 OR 4 ABOVE AND PROOF OF AIR FLOW EXISTS BY STATIC PRESSURE THE ASSOCIATED EXHAUST FANS ARE STARTED, OUTDOOR AIR DAMPERS AND RELIEF DAMPERS (IF ANY) CAN MODULATE OPEN (SEE BELOW) AND THE UNIT CONTROL LOOPS ARE ENABLED.

AHU MAIN COOLING COIL CONTROL:

THE COMPRESSOR(S) ARE STAGED TO MAINTAIN THE UNITS DISCHARGE AIR TEMPERATURE SETPOINT (ADJ.) IF ANY SPACE TEMPERATURE IS BELOW THE SPACE TEMPERATURE SETPOINT FOR A PERIOD OF 5 MINUTES (OVERCOOLING), THE COMPRESSOR(S) SHALL BE UNLOADED TO INCREASE THE LEAVING AIR TEMPERATURE (MAX. 60 DEGF). IF ANY SPACE TEMPERATURE IS ABOVE THE SPACE TEMPERATURE SETPOINT FOR A PERIOD OF 5 MINUTES (UNDER COOLING), THE COMPRESSOR(S) SHALL BE STAGED ON TO DECREASE THE LEAVING AIR TEMPERATURE. IF BOTH OVER AND UNDER COOLING OCCUR SIMULTANEOUSLY, THE UNDER COOLING SEQUENCE SHALL TAKE PRECEDENCE.

OUTSIDE AIR OCCUPIED - UNOCCUPIED CONTROL:

WHEN THE AHU OA OCCUPIED SETPOINT IS 'ON' THE OA FLOW LOOPS ARE ENABLED AND THE FAN STATIC PRESSURE SETPOINT IS RAISED TO ITS OCCUPIED SETPOINT. IF THE OCCUPIED SETPOINT IS 'OFF' THE COMPRESSOR(S) IS STAGED TO ITS MINIMUM SETPOINT, OA FLOW LOOP IS DISABLED CLOSING THE OUTSIDE AIR AND RELIEF AIR DAMPERS (IF ANY) AND THE FAN STATIC PRESSURE SETPOINT IS LOWERED TO ITS UNOCCUPIED SETPOINT.

RELATIVE HUMIDITY OVERRIDE CONTROL:

IF MORE THAN 20% (ADJ.) OF THE SPACE RELATIVE HUMIDITY RISES TO ABOVE 65% (ADJ.) THE LEAVING AIR DISCHARGE TEMPERATURE SETPOINT IS RESET DOWN TO THE DESIGN DISCHARGE TEMPERATURE. IF THE SYSTEM IS IN UNOCCUPIED MODE, THE FAN AND COOLING COIL LEAVING AIR TEMPERATURE CONTROL SEQUENCES SHALL BE INITIATED UNTIL THE RELATIVE HUMIDITY LEVELS DROP BELOW THE SETPOINT. OUTDOOR AIR CONTROL SHALL REMAIN DISABLED.

UNOCCUPIED MODE LOCAL TEMPERATURE OVERRIDE:

EACH SPACE TEMPERATURE SENSOR SHALL BE PROVIDED WITH A LOCAL OVERRIDE BUTTON. UPON ACTIVATION OF THE LOCAL OVERRIDE, THE AIR HANDLING UNIT SERVING THAT ZONE SHALL BE ENERGIZED AND THE STANDARD COOLING COIL, FAN OPERATION SHALL BE INITIATED. THE VAVS SERVING THE NON-OVERRIDE ZONES SHALL OPERATE AT THEIR SCHEDULED MINIMUM AIRFLOWS TO MAINTAIN THEIR UNOCCUPIED SETPOINTS. THE VAV SERVING THE OVERRIDE ZONE SHALL OPERATE IN OCCUPIED MODE WITH OCCUPIED SETPOINTS FOR HEATING AND COOLING. OVERRIDE DURATION SHALL BE FOR A PERIOD OF 1 HOUR (ADJ.) AT WHICH TIME ALL COMPONENTS WILL RESUME NORMAL UNOCCUPIED STATE. OUTSIDE AIR AND EXHAUST/RELIEF SYSTEMS SHALL REMAIN IN UNOCCUPIED MODE UNLESS CO2 LEVELS FROM ANY SENSOR ASSOCIATED WITH THE OVERRIDEN SYSTEM RISES ABOVE THE SETPOINT. UPON A RISE IN CO2 ABOVE THE SETPOINT, THE OCCUPIED OUTSIDE AIR, RELIEF DAMPER AND EXHAUST FAN SEQUENCES FOR EQUIPMENT SERVING THE SAME AREA/SYSTEMS SHALL BE INITIATED UNTIL THE CO2 LEVELS DROP 10% (ADJ.) BELOW THE CO2 LEVEL SETPOINT.

OCCUPIED OA MODE - RETURN / OA DAMPER CONTROL:

THE OA DAMPER CAN MODULATE OPEN WHEN THE AHU IS ON AND THE OUTSIDE AIR SCHEDULE IS SET TO OCCUPIED MODE. IF THE AHU IS OFF OR THE OUTSIDE AIR SCHEDULE IS SET TO UNOCCUPIED MODE THE OUTSIDE AIR DAMPER IS FULLY CLOSED AND THE RETURN AIR DAMPER IS FULLY OPENED. THE OUTSIDE AIR FLOW CFM IS MEASURED BY AN AIR FLOW MONITORING STATION IN THE OUTSIDE AIR DUCT. THE RESETTABLE OUTSIDE AIR FLOW SETPOINT IS MAINTAINED BY MODULATING THE OUTSIDE AIR DAMPER OPEN AND WHEN FULLY OPENED THEN MODULATE THE RETURN AIR DAMPER CLOSED.

RELIEF(IF ANY) WILL BE THROUGH THE INTERLOCKED EXHAUST FANS.

STATIC PRESSURE CONTROL:

WHEN THE SUPPLY FAN PROOF OF FLOW HAS BEEN DETERMINED THE SUPPLY FAN STATIC LOOP IS ALLOWED TO CONTROL. THE SUPPLY FAN SPEED IS RAMPED UP ON FAN START-UP AND THEN MODULATED TO MAINTAIN DISCHARGE STATIC PRESSURE SETPOINT DEPENDING IF IN THE OCCUPIED MODE OR NOT. PROVIDE STATIC PRESSURE SETPOINT RESET IN ACCORD WITH ASHRAE 90.1 SUCH THAT ALL VAV AIR HANDLING SYSTEMS SHALL HAVE THEIR INDIVIDUAL STATIC PRESSURE CONTROLLER SETPOINT RESET BASED ON THE ZONE (I.E., TERMINAL UNIT) REQUIRING THE MOST STATIC PRESSURE IN ORDER TO BE ABLE TO DELIVER ITS PRESCRIBED AIRFLOW AT ANY GIVEN TIME. THE SETPOINT SHALL BE RESET LOWER AT A GRADUATED PACE UNTIL ONE TERMINAL UNIT CONTROL DAMPER IS NEARLY WIDE OPEN.

SAFETIES:

THE FOLLOWING SAFETIES SHALL SHUT DOWN THE UNIT UPON ALARM CONDITION:

1. A FIRE ALARM CONDITION.
2. THE HIGH DISCHARGE STATIC PRESSURE SWITCH TRIPS (W/ MANUAL RESET) AND AN ALARM IS GENERATED.

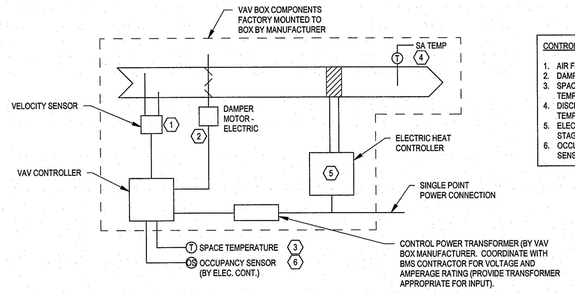
SHUTDOWN:

THE FOLLOWING OCCURS WHEN THE AHU FAN IS STOPPED EITHER BY SAFETIES AS NOTED ABOVE OR IF IN ITS UNOCCUPIED MODE:

1. THE OA DAMPER CLOSES AND THE RETURN AIR DAMPER OPENS.
2. THE COMPRESSOR(S) ARE DE-ENERGIZED.
3. THE INTERLOCKED EXHAUST FANS PER ITS SCHEDULE ARE STOPPED.
4. RELIEF AIR DAMPER(S) ARE CLOSED.

IF THE SUPPLY STATIC PRESSURE FAILS TO INCREASE ABOVE A MINIMUM SETPOINT, THE DDC SYSTEM USES THIS TO CONFIRM THE FAN IS IN THE DESIRED STATE AND GENERATES AN ALARM IF THE STATUS DEVIATES FROM THE DDC START/STOP CONTROL.

1 TYPICAL MULTIZONE VAV RTU CONTROL SCHEMATIC
NTS



CONTROL POINTS (X)

1. AIR FLOW
2. DAMPER POSITION
3. SPACE TEMPERATURE
4. DISCHARGE AIR TEMP.
5. ELECTRIC HEATER STAGES
6. OCCUPANCY SENSOR

VAV SEQUENCE:

EACH VAV SHALL BE PROVIDED WITH INDEPENDENT SETPOINTS FOR THE FOLLOWING CONDITIONS:

SYSTEM MODE	ZONE MODE	COOLING TEMP	HEATING TEMP	MINIMUM AIRFLOW
UNOCCUPIED	UNOCCUPIED	80	64	TERMINAL RECOMMENDED MINIMUM FLOW
	OCCUPIED	75	69	TERMINAL RECOMMENDED MINIMUM FLOW
OCCUPIED & COOL DOWN/WARMUP	UNOCCUPIED	77	68	TERMINAL RECOMMENDED MINIMUM FLOW
	OCCUPIED	75	69	AS SCHEDULED

WHEN THE ASSOCIATED AIR HANDLING UNIT IS ENABLED THE VAV TERMINAL SHALL OPERATE PER THE FOLLOWING:

UPON RISE IN SPACE TEMPERATURE ABOVE THE SPACE COOLING SETPOINT, AIR VALVE SHALL OPEN TO INCREASE SUPPLY AIR FLOW. UPON FALL IN SPACE TEMPERATURE THE REVERSE SHALL OCCUR UNTIL THE AIR VALVE REACHES THE MINIMUM AIRFLOW SETPOINT. IF SPACE TEMPERATURE CONTINUES TO FALL BELOW THE SPACE HEATING SETPOINT THE ELECTRIC HEAT SHALL STAGE ON TO RAISE SUPPLY AIR TEMPERATURE AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT.

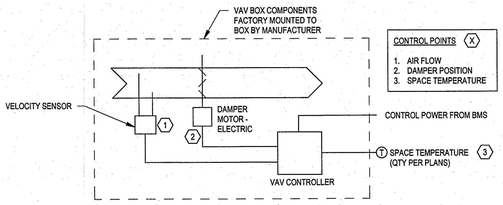
THE SYSTEM OCCUPIED / UNOCCUPIED MODE SHALL BE DETERMINED BY THE MODE IN WHICH THE ASSOCIATED AHU IS OPERATING IN.

FOR VAV'S SERVING LARGE ZONES WITH OCCUPANCY SENSORS SUCH AS CLASSROOMS AND CONFERENCE ROOMS, THE ZONE OCCUPIED / UNOCCUPIED MODE SHALL BE DETERMINED BY THE SPACE MOUNTED OCCUPANCY SENSOR. FOR ALL OTHER SPACES THE ZONE SETTINGS WOULD MATCH THE SYSTEM SETTINGS.

THE ZONE OCCUPIED / UNOCCUPIED MINIMUM AIRFLOW SETPOINTS SHALL BE DETERMINED BY SIGNAL FROM OCCUPANCY SENSOR (BY ELECTRICAL CONTRACTOR). COORDINATE AND PROVIDE ALL REQUIRED CONTROL INTERFACE, RELAYS, WIRING FOR INTERCONNECTION OF OCCUPANCY SENSOR WITH LIGHTING CONTROL / OCCUPANCY SENSOR MANUFACTURER.

SYSTEM MINIMUM FLOW VAV OVERRIDE: WHEN COMMANDED FROM THE AHU CONTROLLER, THE VAV MINIMUM SETPOINTS SHALL BE OVERRIDDEN AS OUTLINED IN THE VAV AIR HANDLING UNIT CONTROL SEQUENCE.

2 TYPICAL VAV W/ ELEC HEAT CONTROL SCHEMATIC
NTS



CONTROL POINTS (X)

1. AIR FLOW
2. DAMPER POSITION
3. SPACE TEMPERATURE

VAV SEQUENCE:

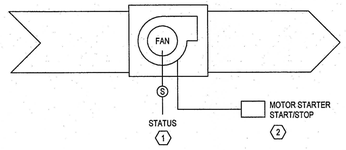
THE BMS SHALL CONTINUOUSLY MONITOR THE SPACE TEMPERATURES OF SPACES SERVED WITH TEMPERATURE SENSORS.

THE VAV TERMINAL SHALL MODULATE AIRFLOW AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE COOLING SETPOINT(S). THE SPACE SETPOINTS (ADJ.) ARE AS FOLLOWS IN PRIORITY OF THE ORDER LISTED:

1. SYSTEMS - 75°F
2. ELECTRICAL - 85°F
3. MECHANICAL - 78°F

IN THE EVENT ANY ONE SPACE TEMPERATURE DROPS BELOW 68°F (ADJ.) THE VAV CONTROL SHALL BE OVERRIDDEN TO MAINTAIN THE WORST CASE MINIMUM TEMPERATURE.

3 TYPICAL VAV W/O HEAT CONTROL SCHEMATIC
NTS



CONTROL POINTS (X)

1. FAN STATUS
2. START/STOP

ALARMS

1. FAN FAILED TO START

FANS INTERLOCKED WITH AHUS / OCCUPIED MODES:

WHEN ASSOCIATED AIR HANDLING UNIT IS IN OCCUPIED MODE, THE FAN SHALL BE ENERGIZED. WHEN THE ASSOCIATED AIR HANDLING UNIT IS IN UNOCCUPIED MODE THE FAN SHALL BE DE-ENERGIZED.

FANS NOTED TO BE INTERLOCKED WITH REFRIGERANT ALARM SYSTEM:

FAN SHALL BE INTERLOCKED TO OPERATE WHEN REFRIGERANT ALARM SYSTEM IS ACTIVE. MOTORIZED DAMPERS FOR MAKE-UP AIR LOUVERS SHALL BE INTERLOCKED WITH FAN OPERATION WITH ACTUATORS THAT FAIL OPEN.

FANS WITH THERMOSTATIC CONTROL:

PROVIDE WITH SPACE TEMPERATURE SENSOR AND HAND / OFF / AUTO SWITCH TIED TO FAN MOTOR STARTER FOR EACH FAN. WHEN IN AUTO THE FAN SHALL BE CONTROLLED TO BE ENABLED WHEN THE SPACE TEMPERATURE EXCEEDS 80 DEGREES (ADJ.).

FANS INTERLOCKED WITH LIGHT SWITCH:

NO CONTROL OR STATUS ARE REQUIRED FOR ANY SMALL FAN INDICATED TO BE INTERLOCKED WITH LIGHT SWITCH FOR CONTROL. UNLESS NOTED OTHERWISE, ALL EXHAUST FANS SHALL BE INTERLOCKED WITH THE FIRE ALARM SYSTEM TO SHUT DOWN UNDER FIRE ALARM CONDITION.

4 TYPICAL EXHAUST FAN CONTROL SCHEMATIC
NTS

CONTROL SYSTEM REQUIREMENTS

1. ALL STAND ALONE DX SPLIT SYSTEMS SHALL BE MONITORED THROUGH THE BAS AND SHALL PROVIDE EQUIPMENT STATUS. ALARMS SHALL BE GENERATED IF SYSTEMS ARE NOT MAINTAINING SPACE CONDITIONS, SETPOINTS OR ARE IN ALARM CONDITION (I.E. DRAIN PAN FLOAT SWITCHES, ETC.). PROVIDE EXTERNAL WALL MOUNTED TEMPERATURE SENSORS.
2. BUILDING SHALL BE PROVIDED WITH UP TO FOUR CONTROL POINTS FOR EXTERIOR LIGHTING CONTROL BASED ON TIME OF DAY SCHEDULE. COORDINATE LOCATION OF LIGHTING CONTROL POINTS WITH ELECTRICAL CONTRACTOR. PROVIDE ALL PROGRAMMING AND CONTROL COMPONENTS REQUIRED TO CONTROL EXTERIOR LIGHTING CIRCUITS.
3. EACH AIR HANDLING UNIT SHALL BE PROVIDED WITH A TROUBLESHOOTING AND TESTING MODE THAT CAN MANUALLY OVERRIDE ALL VAV TERMINALS SERVED BY THE AHU. THE MODE SHALL BE ABLE TO COMMAND ALL VAV TERMINALS FED BY THE AHU TO A ENTERED PERCENTAGE OF MAX AIRFLOW SETPOINTS. MODE SHALL BE ENABLED AND ADJUSTED THROUGH THE WEB PAGE GRAPHICS.
4. ALL ADJUSTABLE SETPOINTS SHALL BE ORGANIZED IN A WAY THAT EACH INDIVIDUAL PIECE OF EQUIPMENT'S ADJUSTABLE SETPOINTS CAN BE DISPLAYED ON A SINGLE WEB PAGE. NO ADJUSTABLE SETPOINTS SHALL BE PROGRAMMED INTO THE CODE DIRECTLY.
5. COORDINATE WITH STAFF AS TO ACTIONS REQUIRED BY ALL ALARM CONDITIONS (I.E. STATUS ON CONTROL GRAPHICS, EMAIL NOTIFICATION, ETC.)
6. BUILDING MAIN SWITCHGEAR IS PROVIDED WITH DIGITAL POWER MONITOR. THE DDC SYSTEM SHALL INTERFACE AND RECORD / LOG THE KW AND KWH FOR THE ELECTRIC SERVICE. REFER TO ELECTRICAL DRAWING FOR PANEL.

AIR HANDLING UNIT MODE SELECTION:

GENERAL:

THE BUILDING MANAGEMENT SYSTEM (BMS) SHALL UTILIZE A TIME OF DAY (TOD) PROGRAM TO DETERMINE THE OPERATING MODE FOR THE AIR HANDLING SYSTEMS. EACH AIR HANDLING UNIT IS TO BE PROVIDED WITH AN INDEPENDENT TOD SCHEDULE THAT CAN BE ADJUSTED BASED ON TYPICAL OCCUPANCY AND USE FOR THAT ZONE. THE TOD SCHEDULE SHALL INDEX THE OVERALL AIR HANDLING SYSTEMS INTO THE FOLLOWING MODES:

UNOCCUPIED MODE:

WHEN AIR HANDLING UNIT IS INDEXED TO BE IN THE UNOCCUPIED MODE THE SYSTEM COMPONENTS SHALL BE COMMANDED TO THE FOLLOWING STATES:

- AIR HANDLING UNIT SUPPLY FAN(S) SHALL BE DE-ENERGIZED.
- INTERLOCKED EXHAUST FANS SHALL BE DE-ENERGIZED.
- OUTSIDE AIR MOTORIZED DAMPERS SHALL MODULATE CLOSED.
- RETURN AIR DAMPERS SHALL MODULATE FULLY OPEN.
- ASSOCIATED EXHAUST FANS SHALL BE DE-ENERGIZED.

PRE-OCCUPIED MODE (WARM UP / COOL DOWN):

WHEN THE AIR HANDLING UNIT IS INDEXED TO BE IN THE PRE-OCCUPIED MODE, AN OPTIMIZED STARTUP PROGRAM SHALL DETERMINE WHETHER THE SYSTEM IS IN WARM UP OR COOL DOWN MODE AND THE SYSTEM COMPONENTS SHALL BE COMMANDED TO THE FOLLOWING STATES:

- AIR HANDLING UNIT SUPPLY FAN(S) SHALL BE ENERGIZED AND FOLLOW THE SUPPLY FAN CONTROL SEQUENCE.
- INTERLOCKED EXHAUST FANS SHALL BE DE-ENERGIZED.
- OUTSIDE AIR MOTORIZED DAMPERS SHALL MODULATE CLOSED.
- RETURN AIR DAMPERS SHALL MODULATE FULLY OPEN.
- ASSOCIATED EXHAUST FANS SHALL BE DE-ENERGIZED.

OCCUPIED MODE:

WHEN THE AIR HANDLING UNIT IS INDEXED TO BE IN THE OCCUPIED MODE THE SYSTEM COMPONENTS SHALL BE COMMANDED TO THE FOLLOWING STATES:

- AIR HANDLING UNIT SUPPLY FAN(S) SHALL BE ENERGIZED AND FOLLOW THE SUPPLY FAN CONTROL SEQUENCE.
- INTERLOCKED EXHAUST FANS SHALL BE ENERGIZED.
- OUTSIDE AIR MOTORIZED DAMPERS SHALL MODULATE AS REQUIRED BY THE OUTSIDE AIR CONTROL SEQUENCE.
- RETURN AIR DAMPERS SHALL MODULATE AS REQUIRED BY THE OUTSIDE AIR CONTROL SEQUENCES.
- ASSOCIATED EXHAUST FANS SHALL BE ENERGIZED.

UNOCCUPIED MODE - ALARM (TEMPERATURE OR HUMIDITY):

TEMPERATURE: WHEN THE AIR HANDLING UNIT IS INDEXED TO BE IN THE UNOCCUPIED MODE AND ANY ZONE TEMPERATURE DROPS BELOW 64°F (ADJ.) OR RISES ABOVE 80°F (ADJ.) THE SYSTEM SHALL INDEXED INTO THE UNOCCUPIED MODE - TEMP ALARM. THE SYSTEM SETUP SHALL MATCH THE PRE-OCCUPIED MODE. WARM UP OR COOL DOWN MODE SHALL BE SELECTED BASED ON THE TROUBLE ZONE CONDITION. SYSTEM SHALL OPERATE IN THIS MODE UNTIL ALL ZONES ARE ABOVE 68°F (ADJ.) OR BELOW 80°F (ADJ.) AT WHICH TIME SYSTEM WILL RETURN TO UNOCCUPIED MODE.

HUMIDITY: WHEN THE AIR HANDLING UNIT IS INDEXED TO BE IN THE UNOCCUPIED MODE AND ANY SPACE HUMIDITY LEVELS EXCEED 65% (ADJ.) THE SYSTEM SHALL BE INDEXED INTO THE UNOCCUPIED MODE - HUMIDITY ALARM. THE SYSTEM SETUP SHALL MATCH THE PRE-OCCUPIED MODE IN COOL DOWN WITH CHILLED WATER VALVE IN FULL OPEN POSITION. SYSTEM SHALL OPERATE IN THIS MODE UNTIL ALL ZONE HUMIDITY LEVELS DROP BELOW 55% (ADJ.).

UNOCCUPIED MODE - MANUAL OVERRIDE:

WHEN THE AIR HANDLING UNIT IS INDEXED TO BE IN THE UNOCCUPIED MODE AND A SYSTEM OVERRIDE IS TRIGGERED, EITHER MANUALLY THROUGH THE BMS OR FROM LOCAL OVERRIDE BUTTON LOCATED AT THE EFFECTED ZONE, THE SYSTEM COMPONENTS SHALL BE COMMANDED TO THE FOLLOWING STATES:

- AIR HANDLING UNIT SUPPLY FAN(S) SHALL BE ENERGIZED AND FOLLOW THE SUPPLY FAN CONTROL SEQUENCE.
- INTERLOCKED EXHAUST FANS SHALL BE REMAIN DE-ENERGIZED.
- OUTSIDE AIR MOTORIZED DAMPERS SHALL REMAIN CLOSED.
- RETURN AIR DAMPERS SHALL REMAIN OPENED.
- ASSOCIATED EXHAUST FANS SHALL BE DE-ENERGIZED.

THE SYSTEM SHALL REMAIN IN THIS MODE FOR 30 MINUTES (ADJ.) FROM THE LOCAL OVERRIDE BUTTON ACTIVATION OR FOR A SET DURATION ENTERED THROUGH THE BMS.

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PLANNING DEPT.

GW K2M OBERMEYER CDCI ASSOCIATES, INC. roto Kimley»Horn
CURTIS + MOSES ARCHITECTS

SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: BPC
DRAWN BY: BPC
REVIEWED BY: JLS

Consultant: CDCI ASSOCIATES
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STATE OF FLORIDA — PROFESSIONAL ENGINEER — JASON L. SMITH, P.E. — LICENSE NUMBER 73745 — 12/9/2025

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JOHN PENNEKAMP

Sheet Title: CONTROLS - HVAC

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: M601

PLOTTED: 12/9/2025 10:34:26 AM

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COMPLETION REQUIREMENTS

RECORD DRAWINGS:
PER C405.5.4.1 - CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING OWNER INCLUDING:
1. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

MANUALS:
PER C405.5.4.2, OPERATION MANUALS & MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE AT A MINIMUM THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

COMMISSIONING NOTES:

C408.3.1 LIGHTING SYSTEM FUNCTIONAL TESTING:
PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 THROUGH C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE. A SUMMARY OF THE TEST PROCEDURES INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

C408.3.1.1 OCCUPANT SENSOR CONTROLS:
CONFIRM THAT THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.

C408.3.1.2 TIME SWITCH CONTROLS:
CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.

C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS:
CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

C408.3.2 DOCUMENTATION REQUIREMENTS:
THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C408.3.2.1 DRAWINGS:
CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EACH PIECE OF EQUIPMENT.

C408.3.2.2 MANUALS:
AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
1. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
2. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
3. SUBMITTAL DATA INCLUDING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND CONTROLS.
4. OPERATION MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED REPLAMPING SHALL BE CLEARLY IDENTIFIED.
5. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.

C408.3.2.3 REPORT:
A REPORT OF THE TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OF PROPOSED.

LIFE SUPPORT SYSTEMS COORDINATION:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL ROUGH-IN LOCATIONS WITH THE PLUMBING AND LIFE SUPPORT SYSTEMS CONTRACTORS PRIOR TO THE START OF ANY UNDERGROUND WORK. REFER TO THE PLUMBING AND LIFE SUPPORT DRAWINGS FOR ADDITIONAL INFORMATION.

ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS.

LIGHTING

NOTE:
UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS. LOWER CASE LETTER INDICATES SWITCH CIRCUIT. (EM) DENOTES FIXTURE WITH BATTERY BALLAST

- 2X4 LUMINAIRE - CEILING MOUNTED
- 2X4 LUMINAIRE - CEILING MOUNTED, EMERGENCY POWER
- 2X2 LUMINAIRE - CEILING MOUNTED
- 2X2 LUMINAIRE - CEILING MOUNTED, EMERGENCY POWER
- INDUSTRIAL STRIP FIXTURE
- INDUSTRIAL STRIP FIXTURE - EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- DOWNLIGHT LUMINAIRE - RECESSED
- DOWNLIGHT FIXTURE - RECESSED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- FIXTURE - PENDANT MOUNTED
- J — TRACK LIGHTING
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED
- END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY PACK, HEADS AS INDICATED
- REMOTE EMERGENCY LIGHT

SWITCHES

- S_{ab} — LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- S_a — SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  (OS) OCCUPANCY SENSOR
  (OV) MOMENTARY OVERRIDE SWITCH
  (4B) 4-BUTTON DIMMABLE SCENE SWITCH
- OS — OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL CONTAIN AN AUXILIARY RELAY FOR HVAC CONTROLS EMS INTERFACE.
- PE — PHOTOCELL

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN - ELECTRICAL CONTRTACTOR TO CONSIDER VOLTAGE DROPS PER CIRCUIT LENGTH AND AMOUNT OF CONDUCTORS IN A CONDUIT.

RECEPTACLES

NOTES:
1. ALL RECEPTACLES SHALL BE RATED 120V, 20A, U.N.O.
2. ALL 120V, 20A, RECEPTACLES LOCATED IN DAMP AND/OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" (TYPE WR).

- DUPLEX RECEPTACLE: MOUNTED 18" AFF UNLESS NOTED OTHERWISE.
  * (G) DUPLEX GFCI RECEPTACLE
  (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER.
  (WPG) DUPLEX GFCI WEATHER RESISTANT RECEPTACLE, WITH DIE-CAST ALUMINUM WHILE-IN-USE WEATHERPROOF COVER.
  (USB) RECEPTACLE; 2-POWER, 2-USB
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- QUADRUPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
- SIMPLEX RECEPTACLE
- SIMPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
  * (ZD) HVAC EQUIPMENT MOUNTED ABOVE CEILING
  (VAV) HVAC EQUIPMENT MOUNTED ABOVE CEILING
  (VVT) HVAC EQUIPMENT MOUNTED ABOVE CEILING
- COMBINATION DATA/TELEPHONE AND DUPLEX RECEPTACLE. MOUNTED IN CAST IRON OR STAINLESS STEEL FLOOR BOX. REFER TO POWER/SYSTEMS FLOOR PLAN FOR EXACT TYPE FLOOR BOX
- 5-20R — SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER

SITE

- T — POWER COMPANY TRANSFORMER - UNLESS NOTED
- PARKING LOT OR ROADWAY FIXTURE
- WALKWAY BOLLARD
- FLOODLIGHT
- UTILITY POLE
- G — GENERATOR - SEE RISER DIAGRAM

POWER CONNECTIONS

- J — JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED CEILING MOUNTED
- JUNCTION BOX
- POWER POLE, SEE DETAIL FOR REQUIREMENTS.
- C — ELECTRICAL CONNECTOR
- PB — WALL MOUNTED PUSH BUTTON STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
- SH — WALL MOUNTED SHUNT TRIP STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS
- TC — TIME CLOCK
- EPO — WALL MOUNTED EMERGENCY POWER OFF STATION MOUNT AT 7'-0" AFG INSTALLATIONS
- EWH — ELECTRIC WATER HEATER
- IWH — INSTANTANEOUS WATER HEATER
- EF, M — MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/2 / 25 — NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
- 30/2 / 25 3R — FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE, #POLES / FUSE SIZE
- ENCLOSED CIRCUIT BREAKER.
- ATS — AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
- PANELBOARD, LOW VOLTAGE (120/208V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM
- M — POWER COMPANY METERING.
- T — DRY-TYPE TRANSFORMER, SEE RISER. FOR CHARACTERISTICS
- SPD — SURGE PROTECTION DEVICE

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- BR — BEAM DETECTOR, RECEIVER
- BT — BEAM DETECTOR, TRANSMITTER
- FD — THERMAL DETECTOR, FIXED + RATE-OF-RISE
- FX — THERMAL DETECTOR, FIXED TEMP.
- ID — SMOKE DETECTOR - IONIZATION
- IR — FLAME DETECTOR - INFRARED
- SD — SMOKE DETECTOR - PHOTO
- F — MANUAL PULL STATION
- H — MAGNETIC DOOR RELEASE
- CE — CONTROL ELEMENT
- FS — FLOW SWITCH (FIRE SPRINKLER)
- KB — KNOX BOX, MOUNTED AT 7'-0" AFG OR @ HEIGHT INDICATED ON FLOOR PLAN.
- TS — TAMPER SWITCH (VALVE SUPERVISION)
- RR — CONTROL RELAY
- RT — REMOTE TEST INDICATOR
- FSD — FIRE SMOKE DAMPER
- S — FIRE SPRINKLER SOLENOID VALVE
- * F — SIGNALING APPLIANCE - HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- * SF — SIGNALING APPLIANCE - SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- * — SIGNALING APPLIANCE - STROBE (75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- * F — SIGNALING APPLIANCE - CEILING MOUNTED HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)
- * SF — SIGNALING APPLIANCE - CEILING MOUNTED SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)
- F — SIGNALING APPLIANCE - CEILING MOUNTED STROBE ONLY (STROBE, 75CD UNLESS NOTED)
- F — FIRE ALARM SYSTEM RACEWAY
- ZIM — ZONE INTERFACE DEVICE
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FZCP — FIRE ALARM ZONE PANEL
- FATC — FIRE ALARM TERMINAL CABINET

GENERAL NOTES:

1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WHETHER INDICATED OR NOT.
2. CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH OSHA REQUIREMENTS, THE NATIONAL ELECTRICAL CODE, THE FLORIDA BUILDING CODE, AND POWER COMPANY REQUIREMENTS AND STANDARDS. ALL MATERIALS SHALL BE NEW UNLESS SPECIFIED OTHERWISE AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITER'S LABEL FOR ITS INTENDED USE AND PURPOSE.
3. CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
4. WORKMANSHIP SHALL MEET N.E.C.A. GUIDELINES AND NEC 110.12.
5. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT OR ENGINEER SHALL MAKE THE NECESSARY CORRECTION OR EXPLANATION IN A WRITTEN FORMAL RESPONSE. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS, AND OVERALL INTENT OF THE CONTRACT DOCUMENTS.
6. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT, BY THE SUB-CONTRACTOR. THIS SUB-CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE MECHANICAL, ARCHITECTURAL, PLUMBING, STRUCTURAL, AND ELECTRICAL PLANS PRIOR TO SUBMITTING THEIR FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE THEMSELVES WITH THE PLANS AND HAVE ALL ITEMS OF WORK CLEARLY UNDERSTOOD AND ITEMIZED IN THEIR BID PROPOSAL.
7. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
8. WHERE CONDUIT IS REQUIRED BELOW GRADE, IT SHALL BE SCHEDULE 40 PVC. PROVIDE NYLON PULL CORDS IN ALL EMPTY CONDUITS. SIZE CONDUIT PER N.E.C. FOR ENCLOSED WIRING.
9. WHERE CONDUIT IS REQUIRED WITHIN THE BUILDING, IT SHALL BE:
   A. 9.1. WHERE EXPOSED TO PHYSICAL DAMAGE, RIGID OR INTERMEDIATE METAL
   B. 9.2. WHERE CONCEALED IN STRUCTURE OR CONCEALED BY FINISHES, EMT SHALL BE UTILIZED EXCEPT WHERE RIGID NONMETALLIC CONDUIT IS PERMITTED BY LOCAL AUTHORITY.
   C. 9.3. MC CABLE WITHIN PARTITIONS. MC CABLE MAY NOT BE USED FOR ANY HOMERUN. FITTINGS SHALL BE APPROVED AND U.L. LISTED FOR THE RACEWAY UTILIZED.
10. ALL CONDUCTORS SHALL BE COPPER (#12 MIN.), THHN/THWN INSULATION UNO. COMPLY WITH ALL N.E.C. ARTICLES. ALL CONDUCTORS SHALL BE NEW, FREE FROM KINKS AND OTHER DEFECTS AFTER INSTALLATION HAS BEEN MADE.
11. WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
12. PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THESE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
13. ALL PLATE FINISHES SHALL BE AS DESIGNATED BY THE ARCHITECT.
14. PROVIDE COMMERCIAL GRADE 20 AMP, 2 POLE, 3 WIRE, GROUNDING TYPE DEVICES WITH BACK AND SIDE WIRING CAPABILITY, SUITABLE FOR SPLIT CIRCUIT OPERATION.
15. GROUND FAULT INTERRUPTER: PROVIDE "SPECIFICATION GRADE" DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTERS (GFI), FEED THRU TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, GROUNDING TYPE UL RATED CLASS A, 20 AMPERES RATING, 120 VOLTS, WITH SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMPERES GROUND FAULT TRIP LEVEL; AND EQUIP WITH LOCAL TEST/RESET BUTTONS.
16. PROVIDE SILENT TYPE STANDARD GRADE 20 AMP, 120V FOR ALL SINGLE POLE, DOUBLE POLE, THREE-WAY AND FOUR-WAY SWITCHES.
17. LUMINAIRE SCHEDULE SHOWS FIXTURE TYPES. DETERMINE MODIFICATIONS REQUIRED TO MAKE FIXTURES SUITABLE FOR CEILINGS AS INSTALLED, AND FURNISH FIXTURES ADAPTED TO THE TYPE OF CEILING USED. FIXTURES SHALL BE U.L. APPROVED. THIS CONTRACTOR SHALL PROTECT THE FIXTURES AND LAMPS AND SHALL REPLACE ANY BROKEN PARTS. ALL LENSES AND LOUVERS IN ANY AREA SHALL BE CLEANED AFTER ALL TRADES HAVE COMPLETED THEIR WORK IN THAT AREA. PROTECT EACH FIXTURE WITH CLEAN, CLEAR PLASTIC UNTIL FINAL INSPECTION. PROVIDE NEW LAMPS FOR ALL LIGHTING FIXTURES.
18. DRIVERS FOR LED FIXTURES SHALL BE U.L. CLASS P, HIGH POWER FACTOR, RAPID START TYPE WITH CBM APPROVAL WHERE APPLICABLE. DRIVERS SHALL BE "A" SOUND RATING EXCEPT WHERE THIS RATING IS NOT AVAILABLE IN WHICH CASE THE RATING SHALL BE THE BEST AVAILABLE. ALL LED DRIVERS SHALL BE ELECTRONIC, ENERGY SAVING TYPE.
19. DISCONNECTS SHALL BE HEAVY DUTY SAFETY SWITCHES WITH 100,000A SHORT CIRCUIT RATING, AND SHALL BE LISTED IN ACCORDANCE WITH U.L. 98. THE COVER SHALL BE INTERLOCKED SO THAT THE DOOR CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION, EXCEPT BY THE INTENTIONAL OPERATION OF A CONCEALED RELEASE (DEFEATER) MECHANISM. PROVIDE FUSIBLE SWITCH FOR A/C UNITS AS PER U.L. LISTING AND LOCAL CODE REQUIREMENTS. PROVIDE DUAL ELEMENT, TIME DELAY FUSES IN ALL FUSIBLE SWITCHES. A SEPARATE GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122 SHALL BE PROVIDED IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS FOR ALL LIGHTING, POWER AND FEEDER CIRCUITS.
20. ALL ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED.
21. PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
22. THE CONTRACTOR SHALL INSTALL THEIR WORK TO JOB CONDITIONS AND MAKE SUCH CHANGES AS REQUIRED AND PERMITTED BY THE ARCHITECT, SUCH AS MOVING THEIR WORK TO CLEAR BEAMS, JOISTS, AND ADJUSTING OTHER APPARATUS TO AVOID INTERFERENCES WITH WINDOWS AND OPENINGS; OR RAISING OR LOWERING THEIR WORK TO PERMIT THE PASSING OF DUCTWORK OR THE WORK OF OTHER TRADES; ALL AS REQUIRED OR AS JOB CONDITIONS DICTATE, WITHOUT ANY ADDITIONAL COSTS TO THE OWNER OR THE CONTRACT PRICE.
23. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND PRODUCTS ARE TO BE INSTALLED AND NOTIFY ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
24. DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS DIVISION, OR CAUSE OTHER DIVISIONS OF WORK TO BE COVERED UP, OR ENCLOSED, UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
25. PROVIDE GROUND AND CONTINUITY TESTING ON ALL ELECTRICAL CIRCUIT WIRING PRIOR TO RECONNECTION/REINSTALLATION.
26. ALL SWITCHES, OUTLETS, COVER PLATES, SIGNS, LIGHTING FIXTURES, AND ANY AND ALL OTHER ELECTRICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE AND CORROSION RESISTANCE OF THE EQUIPMENT MADE "LIKE NEW", TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
27. PERFORM ALL ADJUSTMENTS NECESSARY TO ENSURE PROPER SYSTEM OPERATION IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

VOLTAGE DROP:

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2023 FBC ENERGY CONSERVATION C405.5.3: HOWEVER, THE ELECTRICAL CONTRACTOR SHALL UPSIZE THE CONDUCTORS BASED ON CONDUIT ROUTING AND THE AMOUNT OF CONDUCTORS IN A CONDUIT REGARDLESS OF WHAT IS SHOWN.

APPLICABLE CODES:

1. FLORIDA BUILDING CODE 2023 8TH EDITION.
2. FLORIDA BUILDING CODE 2023 - ENERGY CONSERVATION 8TH EDITION.
3. FLORIDA FIRE PREVENTION CODE 2023 8TH EDITION.
4. NFPA 37 STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES - 2021 EDITION.
5. NFPA 70 NATIONAL ELECTRICAL CODE - 2020 EDITION.
6. NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE - 2019 EDITION.
7. NFPA 101 LIFE SAFETY CODE - 2021 EDITION.
8. NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS - 2019 EDITION.
9. NFPA 780 STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS - 2020 EDITION.
10. NFPA 1221 STANDARD FOR THE INSTALLATION OF EMERGENCY SERVICES COMUNICATION SYSTEMS - 2019 EDITION.

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GW K2M WIO ASSOCIATES, INC — CURTIS + GODDE ARCHITECTS — roto Kimley»Horn

SYMBOL	REVISION	DATE

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21088



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JOHN PENNEKAMP

Sheet Title: GENERAL NOTES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER, JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E001

PLOTTED: 12/12/2025 11:42:17 AM

12/12/2025 11:42:17 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

INTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
A	4" CYLINDER PENDANT CONSTRUCTED FROM EXTRUDED ALUMINUM WITH ALUMINUM HEAT SINKS, MULTISTAGE POLYESTER POWDER COAT FINISH, RIGID STEM PENDANT WITH 0-10V DIMMING DRIVER. ETL LISTED AND SUITABLE FOR DAMP LOCATIONS. 3000K CCT. MINIMUM MOUTING HEIGHT: 8'-9" AFF. BASIS OF DESIGN: SPECTRUM CF0412PC-20L-35HK-WD-D010X-NL-PM-MB	13	LED	UNV	PENDANT	-
AE	SAME FIXTURE AS TYPE 'A' BUT WITH 90 MINUTE EMERGENCY BATTERY. BASIS OF DESIGN: SPECTRUM CF0412PC-20L-35HK-WD-D010X-NL-PM-EMCRC-MB	13	LED	UNV	PENDANT	-
A1	4" ROUND DOWNLIGHT CONSTRUCTED OF ALUMINUM WITH INTEGRAL ALUMINUM HEAT SINKS, UNIVERSAL MOUNTING BRACKETS, DIE CAST ALUMINUM COLLAR, 0-10V DIMMING DRIVER, 3000K CCT, MINIMUM OF 90 CRI AND UL LISTED. PRODUCT SHALL BE LISTED FOR DAMP/WET LOCATIONS. BASIS OF DESIGN: HALO HC4-30-D010-HB128PK-HM403040-930-41-MD-W-WF	28	LED	UNV	RECESSED	-
A1E	SAME FIXTURE AS TYPE 'A' BUT WITH 90 MINUTE EMERGENCY BATTERY. BASIS OF DESIGN: HALO HC4-30-D010-IEM7-HB128PK-HM403040-930-41-MD-W-WF	28	LED	UNV	RECESSED	-
C	4" CYLINDER PENDANT CONSTRUCTED FROM EXTRUDED ALUMINUM WITH ALUMINUM HEAT SINKS, MULTISTAGE POLYESTER POWDER COAT FINISH, RIGID STEM PENDANT WITH 0-10V DIMMING DRIVER. ELT LISTED AND SUITABLE FOR DAMP LOCATIONS. 3000K CCT. MINIMUM MOUTING HEIGHT: 8'-9" AFF. BASIS OF DESIGN: SPECTRUM CF0412PC-20L-35HK-WD-D010X-NL-PM-MB	13	LED	UNV	PENDANT	-
CE	SAME FIXTURE AS TYPE 'C' BUT WITH 90 MINUTE REMOTE EMERGENCY BATTERY. BASIS OF DESIGN: SPECTRUM CF0412PC-20L-35HK-WD-D010X-NL-PM-EMCRC-MB	13	LED	UNV	RECESSED	-
D	8" ROUND DOWNLIGHT CONSTRUCTED FROM MARINE GRADE ALUMINUM WITH 316 MARINE GRADE STAINLESS STEEL FRAME, ALUMINUM HEAT SINKS, PRE PAINTED NICKEL PHOSPHATE ETCHING, INJECTION MOLDED SILICONE GASKETS WITH 0-10V DIMMING DRIVER. IP65 RATED. AMBER CCT. BASIS OF DESIGN: LIGMAN UNI-80523-39-A-W-AMB-01-120/277-DIM	29	LED	UNV	RECESSED	-
DE	SAME FIXTURE AS TYPE 'D' BUT WITH 90 MINUTE REMOTE EMERGENCY BATTERY. BASIS OF DESIGN: LIGMAN UNI-80523-39-A-W-AMB-01-120/277-DIM-EMR	29	LED	UNV	RECESSED	(2)
E	1' X 4' STATIC LUMEN BACKLIT FLAT PANEL CONSTRUCTED FROM CODE GAUGE PRIME COLD ROLLED STEEL WITH 0-10V DIMMING DRIVER, UNIBODY END PLATES, #12 ACRYLIC PRISMATIC LENS, 4000K CCT, MINIMUM OF 80 CRI AND UL LISTED. BASIS OF DESIGN: METALUX 14FP4240C	38	LED	UNV	RECESSED	-
EE	SAME FIXTURE AS TYPE 'E' BUT WITH 90 MINUTE REMOTE EMERGENCY BATTERY. BASIS OF DESIGN: METALUX 14FP4240C-EL7W	38	LED	UNV	RECESSED	-
F	4' VAPORTITE FIXTURE WITH POLYCARBONATE HOUSING, LIQUID SILICONE PERIMETER GASKETING, FROSTED POLYCARBONATE DIFFUSER AND 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMENS (MID) AND CCT (4000K). UL LISTED FOR WET LOCATIONS. DESIGN SELECTION: FAIL-SAFE 4VRVT1-SL3C3-AYC-CHAINHANGERSET	32	LED	UNV	SUSPENDED	-
FE	SAME FIXTURE AS TYPE 'F' BUT WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY. BASIS OF DESIGN: FAIL-SAFE 4VRVT1-SL3C3-EL10W-AYC-CHAINHANGERSET	32	LED	UNV	SUSPENDED	-

NOTES:
1. PROVIDE WITH CHAIN HANGING HARDWARE.
2. COORDINATE FINAL LOCATION OF REMOTE INVERTER WITH ARCHITECT PRIOR TO ROUGH-IN.

*FOR QUESTIONS REGARDING LIGHTING FIXTURES PLEASE CONTACT ANDREW TUCKER @ LIGHTING DYNAMICS 954-299-5937

INTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
G	2' X 2' STATIC LUMEN BACKLIT FLAT PANEL CONSTRUCTED FROM CODE GAUGE PRIME COLD ROLLED STEEL WITH 0-10V DIMMING DRIVER, UNIBODY END PLATES, #12 ACRYLIC PRISMATIC LENS, 4000K CCT, MINIMUM OF 80 CRI AND UL LISTED. BASIS OF DESIGN: METALUX 22FP4240C	29	LED	UNV	RECESSED	-
GE	SAME FIXTURE AS TYPE 'G' BUT WITH 90 MINUTE EMERGENCY BATTERY. BASIS OF DESIGN: METALUX 22FP4240C-EL7W	29	LED	UNV	RECESSED	-
S1E	LINEAR STRIP FIXTURE WITH INTEGRAL OCCUPANCY SENSOR CONTSTRUCTED FROM COLD ROLLED STEEL WITH INTEGRAL 90 MINUTE BATTERY. 4000K CCT. BASIS OF DESIGN: METALUX 4SNX-48SL-LN-UNV-L840-CD1-U-EL7W-WLS	32	LED	UNV	SUSPENDED	(1)
X1	EDGE LIT RED LETTERED EXIT SIGN WITH FIELD INSTALLABLE CHEVRONS AND 90 MINUTE NI-CAD BATTERY. BASIS OF DESIGN: ISOLITE UEL-EM-R-1C2M-MTEBR	3	LED	UNV	UNIVERSAL	-
X2	RED LETTERED EXIT SIGN CONSTRUCTED FROM BRUSHED ALUMINUM WITH FIELD INSTALLABLE CHEVRONS AND 90 MINUTE NI-CAD BATTERY. BASIS OF DESIGN: ISOLITE LPDC2-EM-R-U-BA-BA-X	3	LED	UNV	UNIVERSAL	-

EXHIBIT LUMINAIRE SCHEDULE (COORDINATION ONLY)

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
LS-FX01	DYNAMIC LIGHT PROJECTOR WITH FOUR LENS OPTICS, ON-BOARD DIMMING, PASSIVE COOLING AND DMX DIMMING DRIVER. RDM CAPABLE IP65 RATED. DESIGN SELECTION: ROSCO XFXLED-90-5-B-50-NA-N	90	LED	120	YOKE	(1)(2)
LS-01	SUBMERSIBLE LINEAR TANK LIGHT CONSTRUCTED FROM ANODIZED ALUMINUM WITH DARK GRAY MARINE GRADE FINISH, DMX DIMMING DRIVER. IP68 RATED. PROVIDE WITH 24V REMOTE DRIVER. DESIGN SELECTION: ACCLAIM AQG-281-***	48	LED	120	SWIVEL	(1)(2)
LS-L02A	5' RGB LINEAR MURAL WASH LIGHT CONSTRUCTED FROM MARINE GRADE ALUMINUM WITH TEMPERED GLASS, AND DMX DIMMING DRIVER. PROVIDE WITH REMOTE POWER SUPPLY. DESIGN SELECTION: LUMASCAPE LS9010-05D-4CA-63-MH-5-A-6-13-PS-WT-000	25	LED	120	SURFACE	(1)(2)
LS-L02B	4' RGB LINEAR MURAL WASH LIGHT CONSTRUCTED FROM MARINE GRADE ALUMINUM WITH TEMPERED GLASS, AND DMX DIMMING DRIVER. PROVIDE WITH REMOTE POWER SUPPLY. DESIGN SELECTION: LUMASCAPE LS9010-05D-4CA-63-MH-5-A-6-13-PS-WT-000	20	LED	120	SURFACE	(1)(2)
LS-P01	REPTILE HEAT LAMP WITH DMX DIMMING DRIVER. DESIGN SELECTION: HATCO DL-1800-CN	75	LED	120	SURFACE	(1)(2)
LS-W01	ARCHITECTURAL FACADE SPOT LIGHT CONSTRUCTED FROM MARINE GRADE DIE-CAST ALUMINUM WITH DMX DIMMING DRIVER. PROVIDE WITH REMOTE POWER SUPPLY. DESIGN SELECTION: LUMASCAPE LS9160-80D-4BW-84-MH-S-09-PS-BL-006	80	LED	120	YOKE	(1)(2)
LS-W02	ARCHITECTURAL LANDSCAPE LIGHT WITH DMX DIMMING DRIVER. PROVIDE WITH REMOTE POWER SUPPLY. ORDER WITH 20 DEGREE OPTICS DESIGN SELECTION: KESSIL KSW500S-TB-BK-CLP-PSX-US	175	LED	120	CLAMP	(1)(2)
LS-D01	CIRCULAR DOWNLIGHT WITH DMX DIMMING DRIVER. DESIGN SELECTION: TBD	-	LED	120	SURFACE	(1)(2)
LS-D02	CIRCULAR DOWNLIGHT WITH DMX DIMMING DRIVER. DESIGN SELECTION: TBD	-	LED	120	SURFACE	(1)(2)

NOTES:
1. REFER TO EXHIBIT DRAWINGS FOR FULL LIST OF ACCESSORIES REQUIRED FOR FIXTURES AND LOW VOLTAGE DMX I.T. EQUIPMENT.
2. PROVIDE WITH UNISTRUT AND MOUNT FIXTURES TO UNISTRUT.

EXTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
S1	WILD LIFE - TURTLE SAFE SITE LIGHT CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTEGRAL HEAT SINK, INJECTION MOLDED HEAT SINKS AND POLYESTER POWDER COAT PAINTED FINISH. TYPE-5 DISTRIBUTION. IP65 RATED, DLC LISTED, UL CERTIFIED. AMBER CCT. 12'-0" AFF. BASIS OF DESIGN: MCGRAW EDISON GALN-SA9A-AMB-U-5WQ-BK-DIM-WLS2XX-LS/PFS/MA1036	177	LED	UNV	POLE	(2)(3)
S2	WILD LIFE - TURTLE SAFE SITE LIGHT CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTEGRAL HEAT SINK, INJECTION MOLDED HEAT SINKS AND POLYESTER POWDER COAT PAINTED FINISH. TYPE-3 DISTRIBUTION. IP65 RATED, DLC LISTED, UL CERTIFIED. AMBER CCT. 12'-0" AFF. BASIS OF DESIGN: MCGRAW EDISON GALN-SA9A-AMB-U-SL3-BK-DIM-WLS2XX-LS/PFS/MA1036	177	LED	UNV	POLE	(2)(3)
S3	WILD LIFE - TURTLE SAFE SITE LIGHT CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTEGRAL HEAT SINK, INJECTION MOLDED HEAT SINKS AND POLYESTER POWDER COAT PAINTED FINISH. TYPE-4 DISTRIBUTION. IP65 RATED, DLC LISTED, UL CERTIFIED. AMBER CCT. 12'-0" AFF. BASIS OF DESIGN: MCGRAW EDISON GALN-SA9A-AMB-U-SL4-BK-DIM-WLS2XX-LS/PFS/MA1036	177	LED	UNV	POLE	(2)(3)
SB	WILD LIFE - TURTLE SAFE BOLLARD LIGHT CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTEGRAL HEAT SINK, INJECTION MOLDED HEAT SINKS AND POLYESTER POWDER COAT PAINTED FINISH. IP66 RATED, DLC LISTED, UL CERTIFIED. AMBER CCT. 3'-6" AFF. BASIS OF DESIGN: LUMIERE 303-B1-LEDB2-TSAM-120-T4-DIM10-BK-42	12	LED	UNV	BOLLARD	(3)
SH	LED AMBER HANDRAIL LUMINAIRE WITH DMX DIMMING DRIVER. BASIS OF DESIGN: KLICK USA LP50-AMB-A-X-X-TP-700-BLK-DMX1	3	LED	UNV	HANDRAIL	(1)
W1	LED AMBER WALLPACK CONSTRUCTED FROM DIE-CAST ALUMINUM WITH GASKETED AND ZINC PLATED RIGID STEEL, TGIC POLYESTER POWDER COAT PAINTED FINISH AND 90 MINUTE EMERGENCY BATTERY. BASIS OF DESIGN: MCGRAW EDISON GWC-SA1A-AMB-1-T3-BZ-CBP	34	LED	120	SURFACE	(1)

NOTES:
1. PROVIDE WITH REMOTE POWER SUPPLY. COORDINATE FINAL LOCATION WITH ARCHITECT.
2. FIXTURES MOUNTED ON 12'-0" VALMONT ROUND TAPERED ALUMINUM ANCHOR BASE POLE - #R-110830505T4-D1-DBL
3. EC TO PROVIDE PHOTOMETRICS IF AN ALTERNATE MANUFACTURER IS PROVIDED ENSURING CODE COMPLIANCE.

*FOR QUESTIONS REGARDING LIGHTING FIXTURES PLEASE CONTACT ANDREW TUCKER @ LIGHTING DYNAMICS 954-299-5937

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
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Consultant:

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JOHN PENNEKAMP

Sheet Title: LUMINAIRE SCHEDULE - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E002

PLOTTED: 12/12/2025 11:42:22 AM

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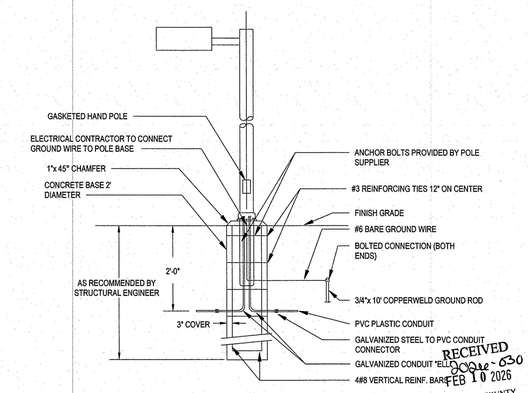
1 SITE PLAN - LIGHTING
1" = 40'-0"

SITE LIGHITNG GENERAL NOTES:

1. FIELD VERIFY EXISTING SITE CONDITIONS. EXISTING UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED USING ALL AVAILABLE RESOURCES PRIOR TO COMMENCEMENT OF ANY UNDERGROUND SITE WORK.
2. COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES.
3. WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
4. CONTRACTOR SHALL FURNISH AND INSTALL MANHOLES OR HAND HOLE PULL BOXES IN ACCORDANCE WITH FAU AND FP&L STANDARDS OR REQUIREMENTS.
5. ALL LIGHT POLE ASSEMBLIES SHALL SUSTAIN WINDLOAD CRITERIA IMPOSED BY MONROE COUNTY, FLORIDA, WITHOUT EXCEPTION.
6. ANY MODIFICATION TO LOCATION OF SITE LIGHT POLES OR USE OF SUBSTITUTE FIXTURE MANUFACTURER SHALL REQUIRE RESUBMISSION OF PHOTOMETRICS FOR APPROVAL BY ENGINEER.
7. EXTERIOR SITE LIGHTING POLES AND BOLLARDS ARE CONTROLLED BY THE BAS/BMS VIA LIGHTING CONTROL PANEL 'LCP'. REFER TO RELAY SCHEDULE ON SHEET E707 FOR DETAILS.

KEYNOTES:

1 PROVIDE LIGHT FIXTURE TYPE 'F' WITH WITH SPRING WOUND COUNTDOWN TIMER. MOUNT FIXTURE TO WALL OR CEILING. WIRE FIXTURE AHEAD OF GFI RECEPTACLE. BOD: INTERMATIC FF34H



3 POLE BASE DETAIL
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1	Revision 1	12/12/2025

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: SITE PLAN - LIGHTING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E010

PLOTTED: 12/12/2025 11:42:31 AM

12/12/2025 11:42:31 AM
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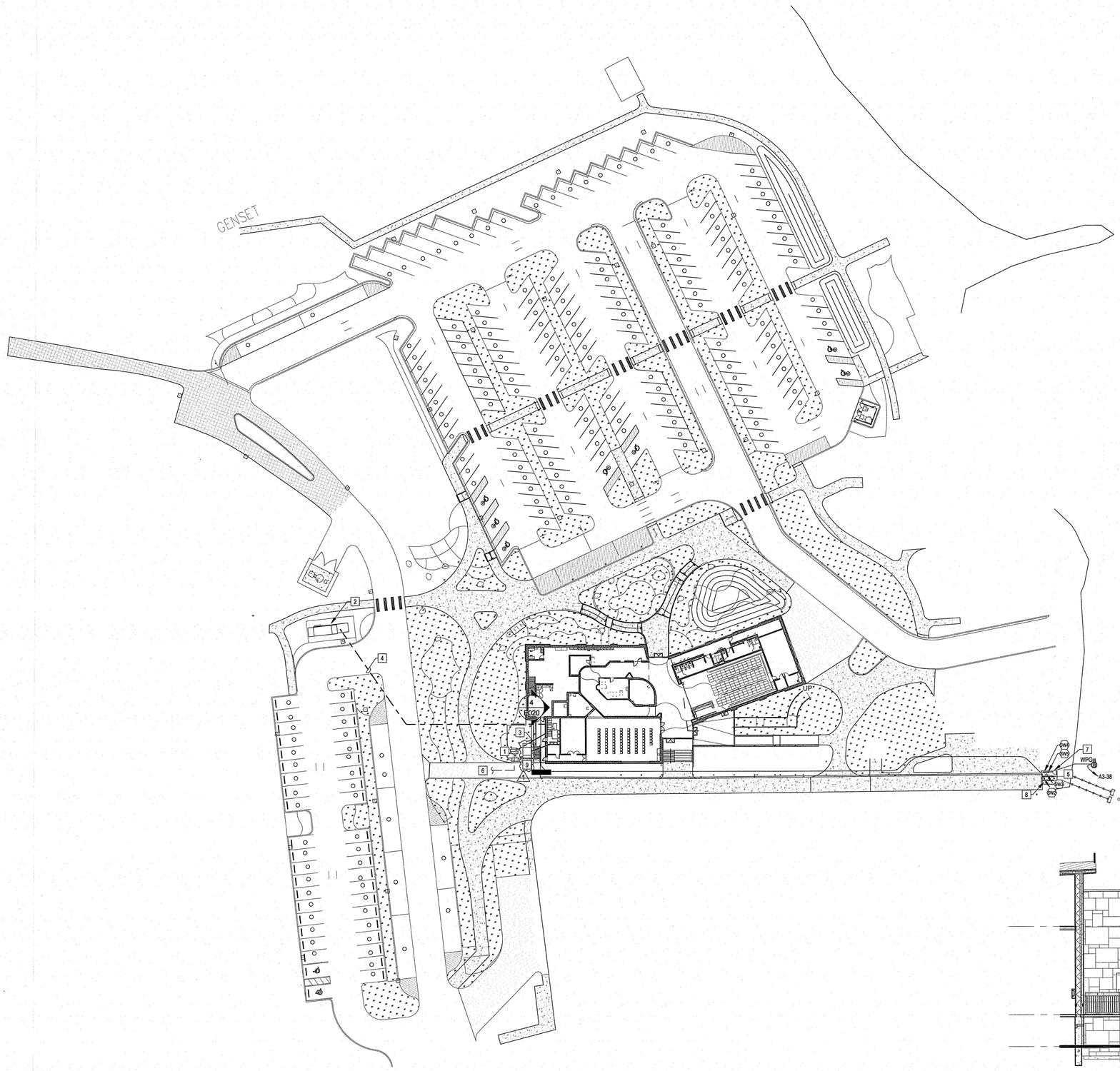
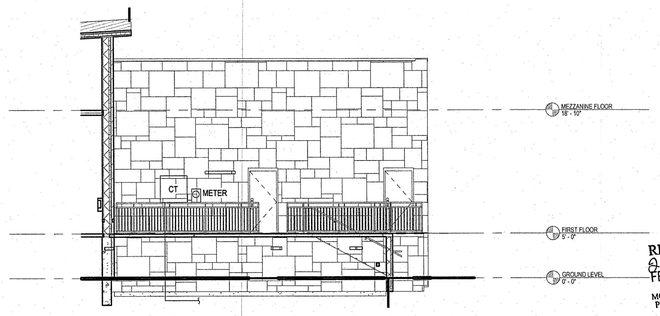


1 SITE PLAN - POWER
1" = 40'-0"



4 UTILITY METER ELEVATION
1/8" = 1'-0"

SITE GENERAL NOTES:

1. FIELD VERIFY EXISTING SITE CONDITIONS. EXISTING UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED USING ALL AVAILABLE RESOURCES PRIOR TO COMMENCEMENT OF ANY UNDERGROUND SITE WORK.
2. COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES.
3. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EACH PANELBOARD WITHIN BUILDING ON POWER FLOOR PLANS. FIELD ADJUST ANY CONDUITS IN FIELD TO ACCOMMODATE LOCATION OF PANELBOARD.
4. COORDINATE EXTERIOR FIRE ALARM CONNECTIONS TO FLOW/TAMPER SWITCHES, POST INDICATOR VALVES, AND BACKFLOW PREVENTERS WITH FIRE PROTECTION AND CIVIL DRAWINGS.
5. WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
6. CONTRACTOR SHALL FURNISH AND INSTALL MANHOLES OR HAND HOLE PULL BOXES IN ACCORDANCE WITH MONROE COUNTY AND FKEC STANDARDS OR REQUIREMENTS.

KEYNOTES:

1. PROPOSED UTILITY TRANSFORMER LOCATION. COORDIANTE FINAL LOCATION WITH CIVIL AND LANSCAPE PRIOR TO THE START OF ANY UNDERGROUND WORK.
2. PROPOSED DAY 2 GENERATOR LOCATION. COORDINATE FINAL LCOATION WITH CIVIL AND LANDSCAPE PRIOR TO THE START OF ANY UNDERGROUND WORK.
3. REFER TO ONE-LINE DIAGRAM ON SHEET E-501 FOR RACEWAY SIZES.
4. PROVIDE AND INSTALL EMPTY CONDUITS FROM ATS TO FUTURE GENERATOR LOCATION. REFER T O ONE-LINE DIAGRAM ON SHEET E-501 FOR RACEWAY SIZES.
5. SALTWATER INTAKE PUMP HOUSE LOCATION. WIRE PUMPS DICONNECT SWITCHES LOCATED IN BUILDING. REFER TO SCHEDULE ON SHEET E707 FOR DISCONNECT SIZES.
6. REFER TO CIVIL DRAWINGS FOR INCOMMING PRIMARY POWER FEEDERS.
7. PROVIDE A 12X12 OUTSIDE AIR INTAKE LOUVER ON THE WALL WITH A VOLUME DAMPER AND WIRE MESH SCREEN. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR.
8. PROVIDE A ROOFTOP CENTRIFUGAL EXHAUST FAN EQUAL TO GREENHECK, MODEL: G-080-G. PROVIDE A DIRECT DRIVE MOTOR WITH SPEED CONTROLLER AND BACKDRAFT DAMPER. THE FAN WILL BE SET FOR 120 CFM OF AIRFLOW EXHAUST, 120 VOLT / 1 PH ELECTRICAL REQUIREMENT WITH A 1/30 HP MOTOR. FAN WILL WEIGH 17 LBS, AND REQUIRE A MINIMUM CURB WITH FLASHING, AND A GUYWIRE STRAPPING TO THE ROOF. THE SONES OF THE FAN SHOULD NOT EXEED 5.0. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR. DISCONNECT SWITHCT PROVIDED BY MC. EC TO WIRE EXHAUST FAN TO CIRCUIT A3-38 AHEAD OF GFI RECEPTACLE.
9. PROPOSED LOCATION OF MANUAL TRANSFER SWITCH MTS-1. COORDINATE FINAL LOCATION WITH LANDSCAPE ARCHITECT AND CIVIL ENGINEER PRIOR TO THE START OF ANY UNDERGROUND WORK.

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1	Revision 1	12/12/2025

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: SITE PLAN - POWER

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E020

PLOTTED: 12/12/2025 11:42:43 AM

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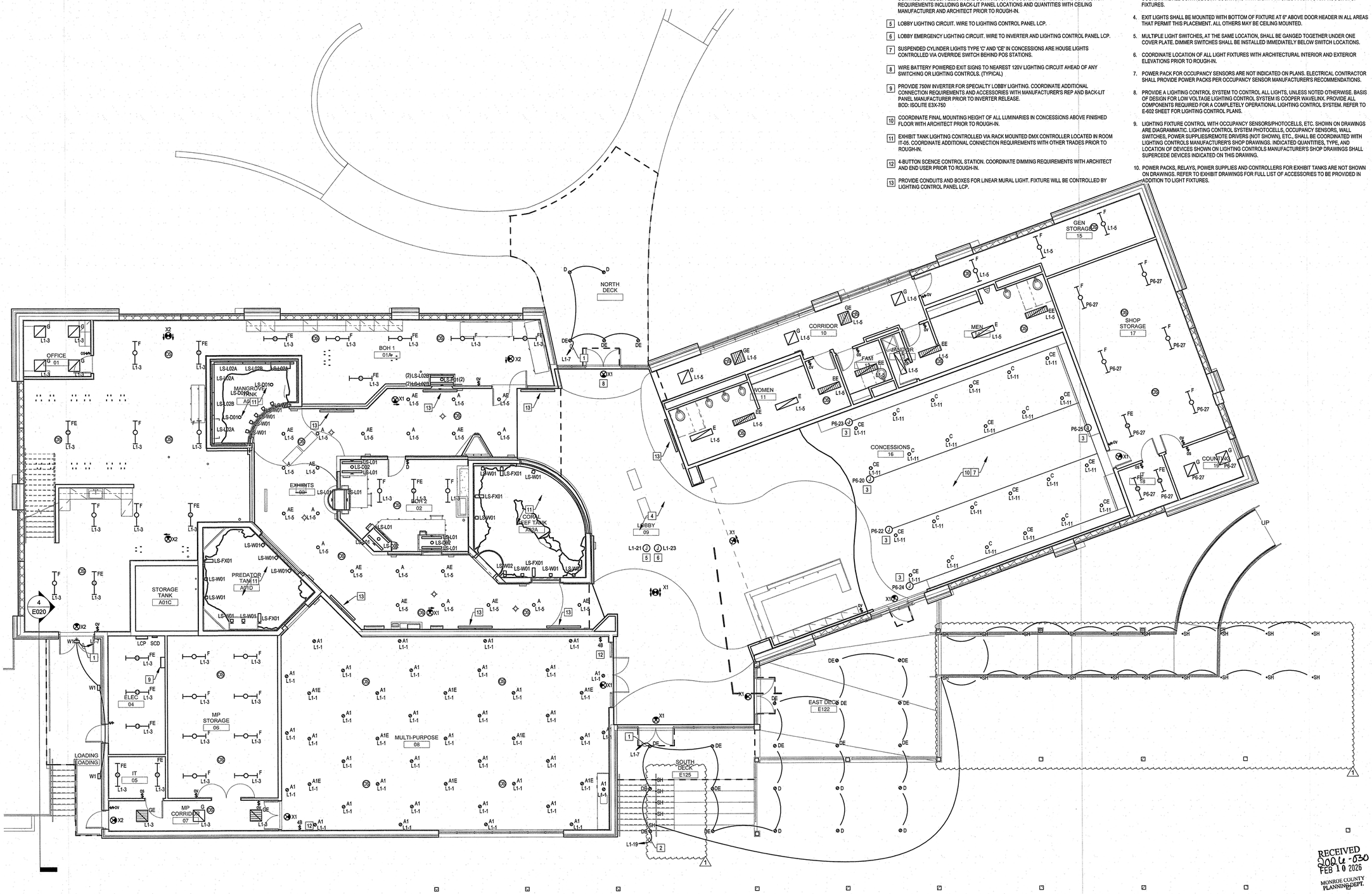
KEYNOTES:

1. EXTERIOR WALL/SOFFIT LIGHTING CONTROLLED VIA LIGHTING CONTROL PANEL LCP. (TYPICAL)
2. EXTERIOR HANDRAIL LIGHTING CONTROLLED VIA DMX CONTROLLER. (TYPICAL)
3. PROVIDE CONDUITS AND BOXES FOR FUTURE CONCESSIONS TRACK LIGHTING SYSTEMS.
4. SPECIALTY PERFORATED METAL CEILING LIGHTING IN LOBBY TO BE CONTROLLED VIA LIGHTING CONTROL PANEL LCP. ELECTRICAL CONTRACTOR TO COORDINATE ADDITIONAL CONNECTION REQUIREMENTS INCLUDING BACK-LIT PANEL LOCATIONS AND QUANTITIES WITH CEILING MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN.
5. LOBBY LIGHTING CIRCUIT. WIRE TO LIGHTING CONTROL PANEL LCP.
6. LOBBY EMERGENCY LIGHTING CIRCUIT. WIRE TO INVERTER AND LIGHTING CONTROL PANEL LCP.
7. SUSPENDED CYLINDER LIGHTS TYPE 'C' AND 'CE' IN CONCESSIONS ARE HOUSE LIGHTS CONTROLLED VIA OVERRIDE SWITCH BEHIND POS STATIONS.
8. WIRE BATTERY POWERED EXIT SIGNS TO NEAREST 120V LIGHTING CIRCUIT AHEAD OF ANY SWITCHING OR LIGHTING CONTROLS. (TYPICAL)
9. PROVIDE 750W INVERTER FOR SPECIALTY LOBBY LIGHTING. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS AND ACCESSORIES WITH MANUFACTURER'S REP AND BACK-LIT PANEL MANUFACTURER PRIOR TO INVERTER RELEASE.
   BOD: ISOLITE E3X-750
10. COORDINATE FINAL MOUNTING HEIGHT OF ALL LUMINARIES IN CONCESSIONS ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO ROUGH-IN.
11. EXHIBIT TANK LIGHTING CONTROLLED VIA RACK MOUNTED DMX CONTROLLER LOCATED IN ROOM IT-05. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
12. 4-BUTTON SCENCE CONTROL STATION. COORDINATE DIMMING REQUIREMENTS WITH ARCHITECT AND END USER PRIOR TO ROUGH-IN.
13. PROVIDE CONDUITS AND BOXES FOR LINEAR MURAL LIGHT. FIXTURE WILL BE CONTROLLED BY LIGHTING CONTROL PANEL LCP.

LIGHITNG GENERAL NOTES:

1. ALL LIGHT SWITCHES SHALL BE 120V RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
4. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6' ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
5. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
6. COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
7. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE A LIGHTING CONTROL SYSTEM TO CONTROL ALL LIGHTS, UNLESS NOTED OTHERWISE. BASIS OF DESIGN FOR LOW VOLTAGE LIGHTING CONTROL SYSTEM IS COOPER WAVELINX. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETELY OPERATIONAL LIGHTING CONTROL SYSTEM. REFER TO E-602 SHEET FOR LIGHTING CONTROL PLANS.
9. LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS/PHOTOCELLS, ETC. SHOWN ON DRAWINGS ARE DIAGRAMMATIC. LIGHTING CONTROL SYSTEM PHOTOCELLS, OCCUPANCY SENSORS, WALL SWITCHES, POWER SUPPLIES/REMOTE DRIVERS (NOT SHOWN), ETC., SHALL BE COORDINATED WITH LIGHTING CONTROLS MANUFACTURER'S SHOP DRAWINGS. INDICATED QUANTITIES, TYPE, AND LOCATION OF DEVICES SHOWN ON LIGHTING CONTROLS MANUFACTURER'S SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS DRAWING.
10. POWER PACKS, RELAYS, POWER SUPPLIES AND CONTROLLERS FOR EXHIBIT TANKS ARE NOT SHOWN ON DRAWINGS. REFER TO EXHIBIT DRAWINGS FOR FULL LIST OF ACCESSORIES TO BE PROVIDED IN ADDITION TO LIGHT FIXTURES.



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1 FIRST FLOOR PLAN - LIGHTING

1/8" = 1'-0"

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1	Revision 1	12/12/2025

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ISSUE DATE: 06.23.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN - LIGHTING

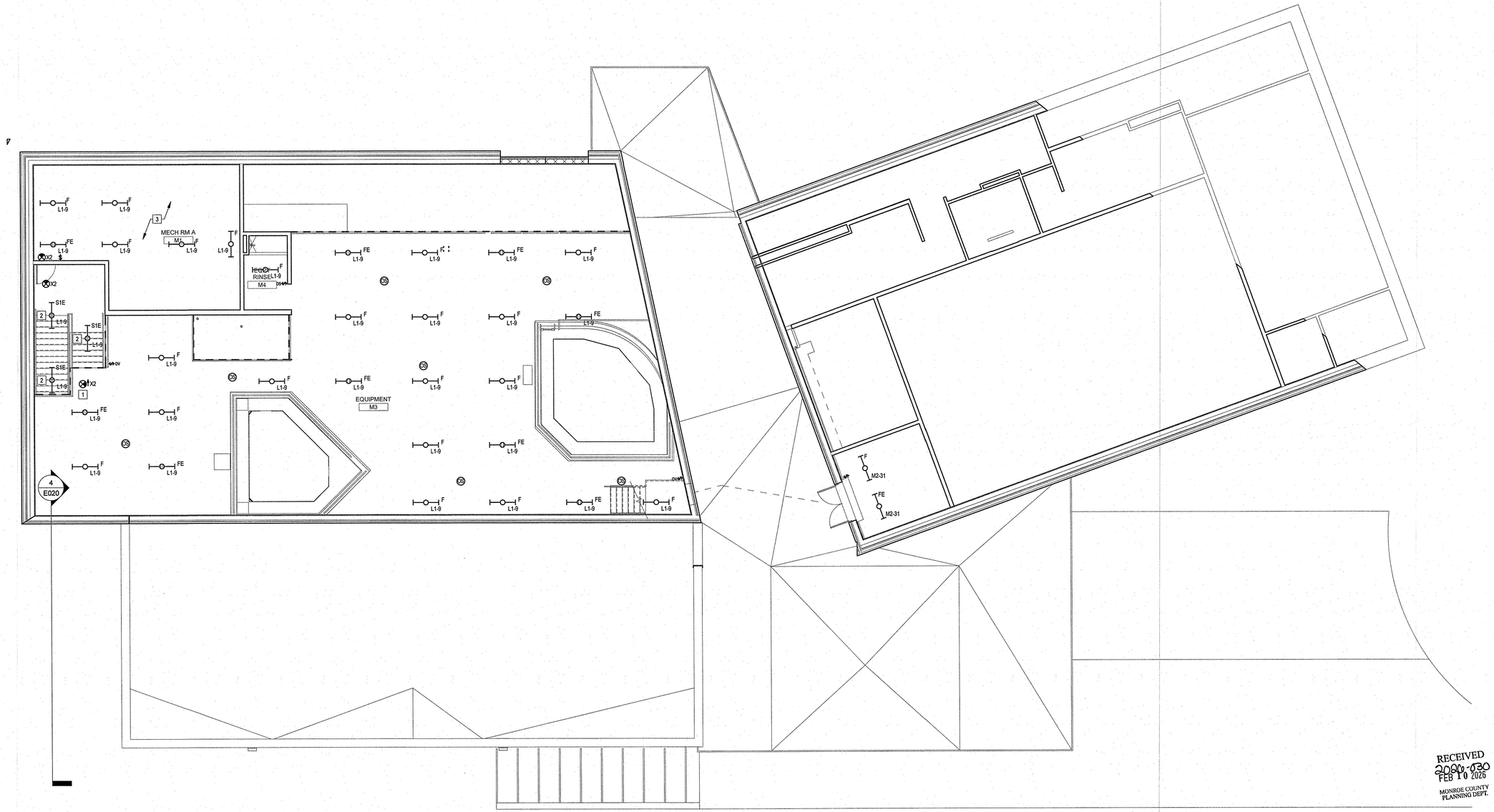
Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E101

PLOTTED: 12/12/2025 11:42:59 AM

KEYNOTES:

1. WIRE BATTERY POWERED EXIT SIGNS TO NEAREST 120V LIGHTING CIRCUIT AHEAD OF ANY SWITCHING OR LIGHTING CONTROLS. (TYPICAL)
2. STAIRWELL FIXTURES CONTROLLED VIA INTEGRAL OCCUPANCY SENSOR.
3. COORDINATE WITH MECHANICAL CONTRACTOR FOR DUCT WORK LAYOUT PRIOR TO ROUGH-IN.



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1 MEZZANINE FLOOR PLAN - LIGHTING

1/8" = 1'-0"

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
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JOHN PENNEKAMP

Sheet Title: MEZZANINE FLOOR PLAN - LIGHTING

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E102

PLOTTED: 12/12/2025 11:43:09 AM

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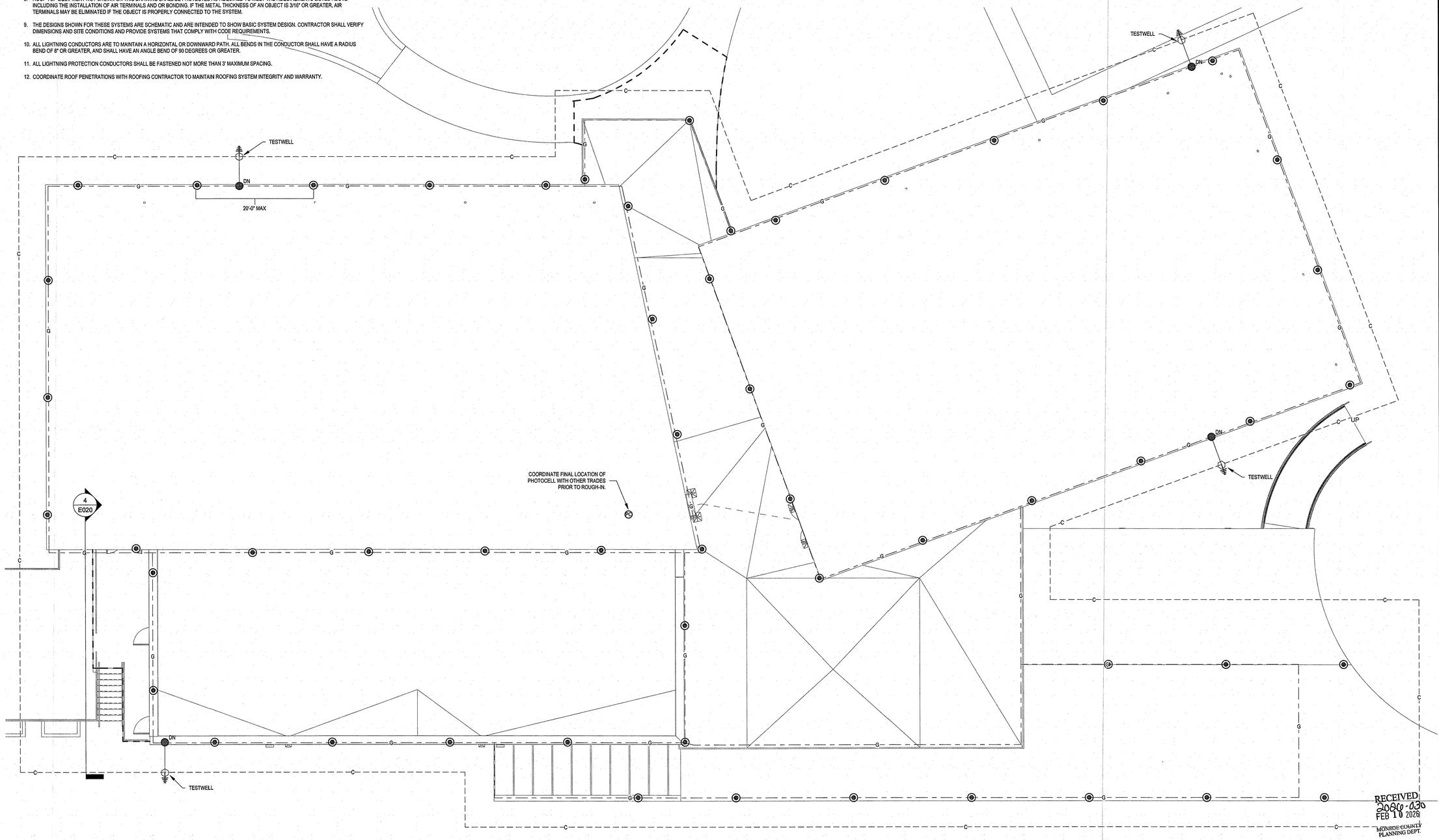
GENERAL NOTES:

1. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM PER CURRENT NFPA 780 AND UL96A STANDARDS.
2. THIS LIGHTNING PROTECTION DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. SHOP DRAWINGS ISSUED BY A CERTIFIED LIGHTNING PROTECTION CONTRACTOR SHALL BE USED FOR BIDDING PURPOSES AND SHALL TAKE PRECEDENCE.
3. THE COMPLETED INSTALLATION SHALL MEET THE 'INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL96A' OF UNDERWRITERS LABORATORIES - LATEST EDITION. THE UL MASTER LABEL SHALL BE FURNISHED TO THE OWNER UPON COMPLETION.
4. COPPER LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL NOT BE MOUNTED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA.
5. METAL BODIES WITHIN 6'-0" OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE SYSTEM IN ACCORDANCE WITH UL96A - LATEST EDITION.
6. UNDERGROUND METALLIC PIPING ENTERING THE BUILDING SHALL BE BONDED TO THE NEAREST DOWN CONDUCTOR OR GROUND ELECTRODE.
7. ADHESIVE USED WITH ADHESIVE AIR TERMINAL BASES AND CONDUCTOR FASTENERS SHALL BE COMPATIBLE WITH ROOFING MEMBRANE - VERIFY WITH ROOFING CONTRACTOR.
8. ROOF TOP EQUIPMENT NOT SHOWN ON THIS DRAWING SHALL BE PROTECTED AS REQUIRED TO MEET THE REQUIREMENTS LISTED ABOVE INCLUDING THE INSTALLATION OF AIR TERMINALS AND OR BONDING. IF THE METAL THICKNESS OF AN OBJECT IS 3/16" OR GREATER, AIR TERMINALS MAY BE ELIMINATED IF THE OBJECT IS PROPERLY CONNECTED TO THE SYSTEM.
9. THE DESIGNS SHOWN FOR THESE SYSTEMS ARE SCHEMATIC AND ARE INTENDED TO SHOW BASIC SYSTEM DESIGN. CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS AND PROVIDE SYSTEMS THAT COMPLY WITH CODE REQUIREMENTS.
10. ALL LIGHTNING CONDUCTORS ARE TO MAINTAIN A HORIZONTAL OR DOWNWARD PATH. ALL BENDS IN THE CONDUCTOR SHALL HAVE A RADIUS BEND OF 8" OR GREATER, AND SHALL HAVE AN ANGLE BEND OF 90 DEGREES OR GREATER.
11. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3' MAXIMUM SPACING.
12. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO MAINTAIN ROOFING SYSTEM INTEGRITY AND WARRANTY.

LIGHTNING PROTECTION SYSTEM:

- C — COUNTERPOISE CONDUCTOR - CABLE SIZED PER NFPA 780
- G — MAIN L.P. CONDUCTOR - CABLE SIZED PER NFPA 780
- B — BONDING CONDUCTOR - CABLE SIZED PER NFPA 780
- AIR TERMINAL
  * (A) FLAT SURFACE BASE
  (B) FLAT WALL MOUNTED PARAPET
  (C) SWIVEL BASE
  (D) RIDGE SADDLE BASE (EXPOSED)
  (E) RIDGE SADDLE BASE (CONCEALED)
  (F) CONCEALED AIR TERMINAL BASE ASSEMBLY
- MECHANICAL OR EXOTHERMIC BOND
- EXOTHERMIC TEE CONNECTION
- DN — DOWN CONDUCTOR LOCATION



1 ROOF PLAN - ELECTRICAL
1/8" = 1'-0"

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GW K2M GWIO roto Kimley»Horn — CURTIS + ROGERS ARCHITECTS

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
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ISSUE DATE: 06.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: ROOF PLAN - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER, JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E110

PLOTTED: 12/12/2025 11:43:17 AM

12/12/2025 11:43:17 AM
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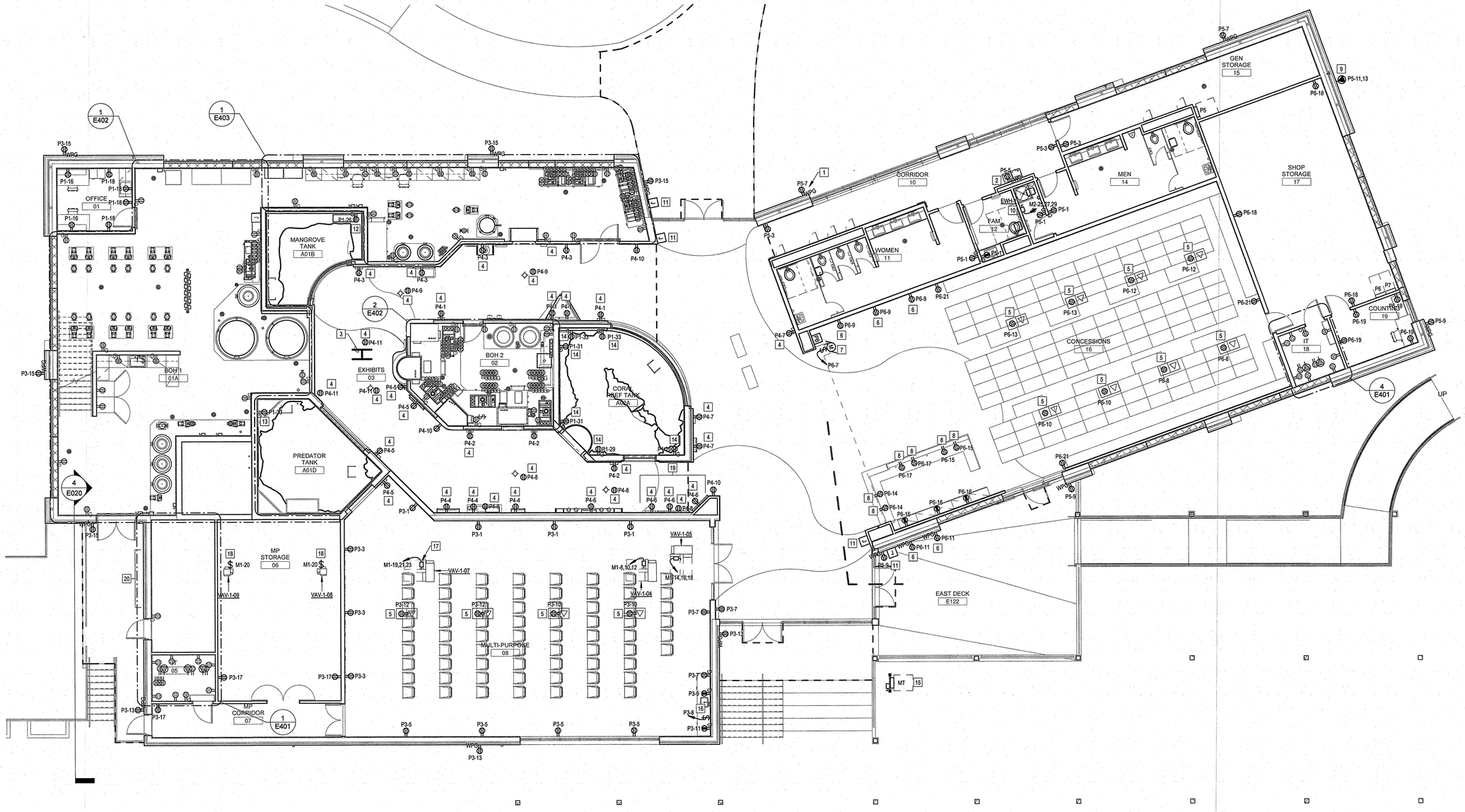
KEYNOTES:

1. PROVIDE LOCKABLE EXTRA DUTY PVC IN-USE COVER. (TYPICAL FOR ALL EXTERIOR WPG RECEPTACLES)
2. PROVIDE EWC WITH GFCI BREAKER.
3. PROVIDE UNISTRUT SUPPORT FOR MOUNTING OF OVERHEAD PROJECT. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXHIBIT POWER CONNECTION. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE 4-GANG FLOOR BOX. EC TO OBTAIN DIMENSIONAL DRAWINGS FROM ARCHITECT PRIOR TO ROUGH-IN. FINAL COVER AND FINISH SELECTION BY ARCHITECT/ID. BASIS OF DESIGN: WIREMOLD RFBA SERIES OR APPROVED EQUAL.
6. PROVIDE POWER CONNECTION AT SERVICE KIOSK. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS AND ROUGH-IN HEIGHTS WITH END USER, ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN.
7. PROVIDE POWER CONNECTION TO MOTORIZED ROLL UP DOOR. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE QUAD RECEPTACLE AT POS STATION LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS AND ROUGH-IN HEIGHTS WITH ARCHITECT/ID AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
9. PROVIDE DEDICATED L6-50 RECEPTACLE IN LOCKABLE PVC IN-USE COVER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT AND END USER PRIOR TO ROUGH-IN.
10. PROVIDE POWER CONNECTION FOR ELECTRIC WATER HEATER. WIRE ASSOCIATED RECIRC PUMP TO NEAREST 120V GENERAL RECEPTACLE CIRCUIT AHEAD OF ANY GFI RECEPTACLE.
11. PROVIDE JUNCTION BOX RECESSED IN WALL FOR ADA DOOR ACTUATOR BUTTON. WIRE JUNCTION BOX TO NEAREST 120V CIRCUIT AHEAD OF ANY GFI RECEPTACLE. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
12. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT MANGROVE TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
13. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT PREDATOR TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
14. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT CORAL REEF TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
15. MOTE ELECTRICAL PANEL MOUNTED TO UNISTRUT. COORDINATE FINAL ELECTRICAL PANEL LOCATION WITH ARCHITECT, LANDSCAPE AND END USER PRIOR TO ROUGH-IN.
16. PROVIDE POWER CONNECTION FOR GARBAGE DISPOSAL. COORDINATE ACTIVATION SWITCH AND ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
17. PROVIDE DISCONNECT SWITCH AHEAD OF VAV. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO SHEET E707 FOR MECHANICAL EQUIPMENT SCHEDULE. (TYPICAL)
18. PROVIDE POWER CONNECTION TO VAV WITHOUT HEAT. STEPDOWN TRANSFORMER PROVIDED BY MECHANICAL CONTRACTOR.
19. PROVIDE CONDUITS AND BOXES BEHIND EACH LUMISHEET FOR LIT SIGNAGE DISPLAYS.. STUB CONDUIT TO CEILING AND TERMINATE IN JUNCTION BOX. PROVIDE CONDUITS AND BOXES BACK TO ELECTRICAL ROOM. REFER TO EXHIBIT DRAWINGS AND ELEVATIONS FOR DETAILS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT AND EXHIBIT DESIGNER PRIOR TO ROUGH-IN.
20. PROPOSED MOUNTING LOCATION FOR UTILITY METER AND CT CABINETS. COORDINATE ADDITIONAL REQUIREMENTS WITH CIVIL AND UTILITY PROVIDER PRIOR TO START OF ANY UNDERGROUND WORK.

POWER GENERAL NOTES:

1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS. RELOCATE RECEPTACLES AND ELECTRICAL EQUIPMENT TO AVOID CONFLICTS WITH ARCHITECTURAL CASEWORK.
2. LOCATIONS OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACTLY LOCATION WITH OWNERS REPRESENTATIVES, ARCHITECT AND/OR ENGINEER PRIOR TO ROUGH-IN.
3. COORDINATE THE LOCATION OF POWER RECEPTACLES WITH VOICE/DATA OUTLETS ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
4. ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
5. ALL 15 AND 20 AMPS, 125 VOLTS RECEPTACLES SHALL BE TAMPER-RESISTANT RECEPTACLES.
6. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
7. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION AND CONNECTION REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH-IN.
8. ALL 20A, 120/208V HOMERUNS LONGER THAN 90' SHALL BE A MINIMUM SIZE OF #10 AWG AND ALL HOMERUNS LONGER THAN 230' SHALL BE A MINIMUM OF SIZE OF #6 AWG.
9. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. MAINTAIN CODE REQUIRED CLEARANCES. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
10. VFD/STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY. VFD/STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
11. DISCONNECT SWITCHES FOR ALL MECHANICAL, PLUMBING AND MISCELLANEOUS ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. MAINTAIN CODE REQUIRED CLEARANCES.
12. FLOOR BOX LOCATIONS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT TO OBTAIN ROUGH-IN DIMENSIONS.



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1 FIRST FLOOR PLAN - POWER

1/8" = 1'-0"

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GW K2M WIO roto Kimley»Horn
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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21096

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JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN - POWER

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E201

PLOTTED: 12/12/2025 11:43:42 AM

12/12/2025 11:43:42 AM
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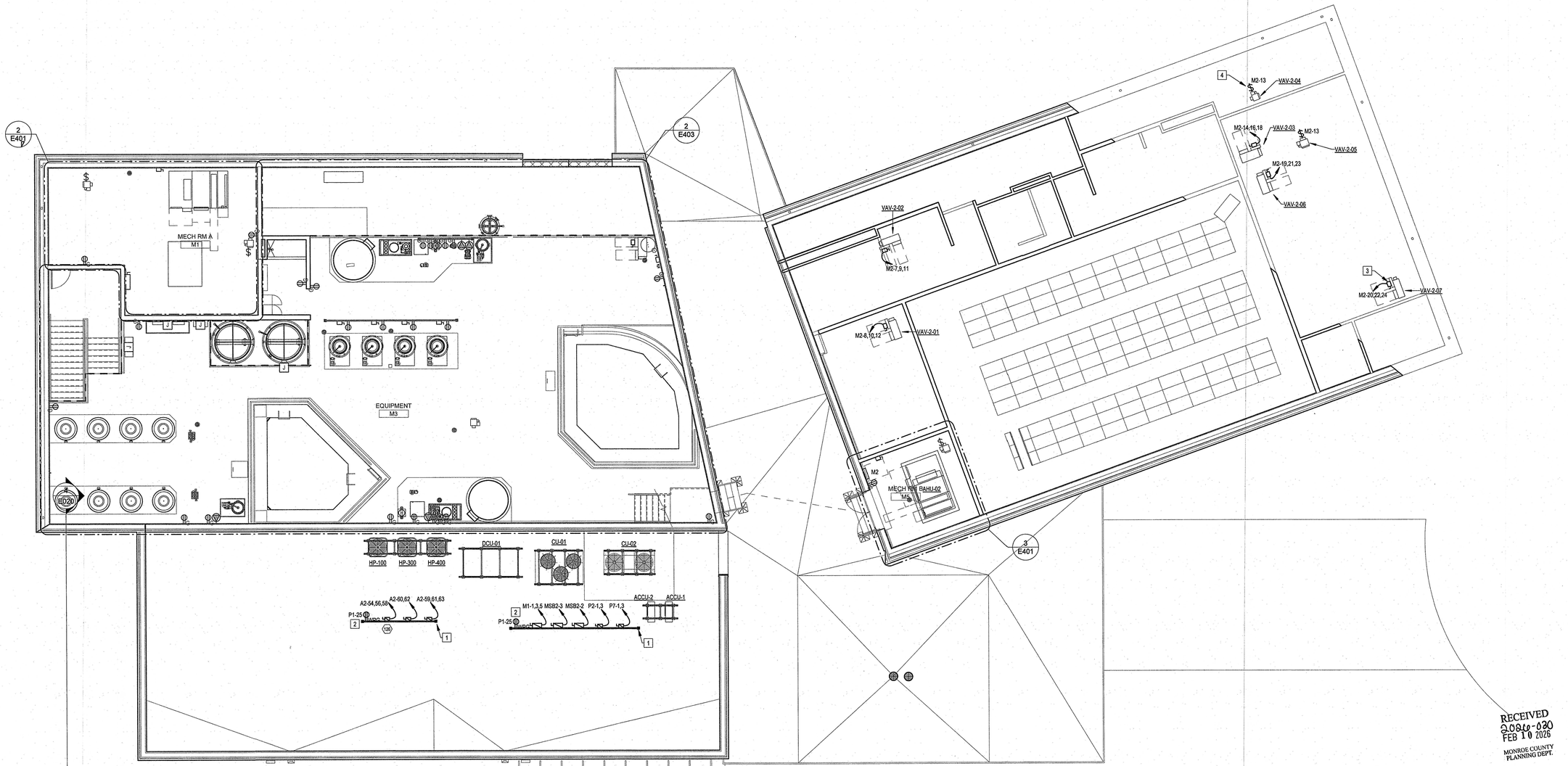
KEYNOTES:

1. PROVIDE STAINLESS STEEL UNISTRUT FOR MOUNTING OF ELECTRICAL EQUIPMENT ON ROOF. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
2. PROVIDE LOCKABLE EXTRA DUTY PVC IN-USE COVER.
3. PROVIDE DISCONNECT SWITCH AHEAD OF VAV. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO SHEET E707 FOR MECHANICAL EQUIPMENT SCHEDULE. (TYPICAL)
4. PROVIDE POWER CONNECTION TO VAV WITHOUT HEAT. STEPDOWN TRANSFORMER PROVIDED BY MECHANICAL CONTRACTOR. (TYPICAL)



1 MEZZANINE FLOOR PLAN - POWER
1/8" = 1'-0"

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SYMBOL	REVISION	DATE
1	Revision 1	12/12/2025

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: MEZZANINE FLOOR PLAN - POWER

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E202

PLOTTED: 12/12/2025 11:44:14 AM

12/12/2025 11:44:14 AM
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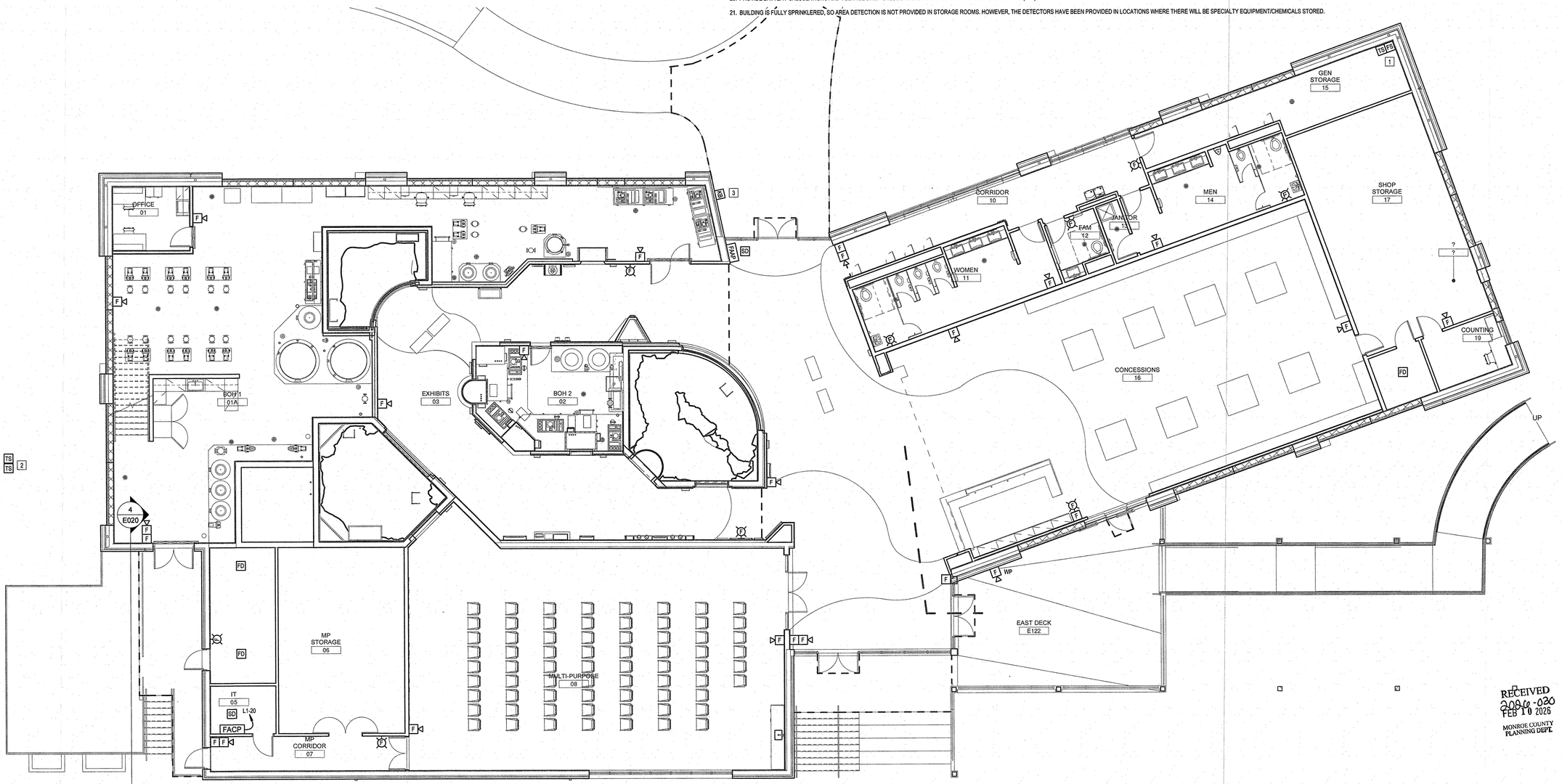
KEYNOTES:

1. COORDINATE TAMPER AND FLOW SWITCH LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
2. TAMPER SWITCH LOCATION AT DDCV. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH CIVIL ENGINEER AND FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
3. COORDINATE FINAL KNOX BOX LOCATION WITH AHJ PRIOR TO ROUGH-IN.

FIRE ALARM GENERAL NOTES:

1. ALL WALL-MOUNTED AUDIBLE & VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT 80" PER FBC CHAPTER 11, ART 11.4.28.3. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72, CH4-.4.1.1(4)
2. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED.
3. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" MAXIMUM ABOVE FLOOR LEVEL, PER FBC CHAPTER 11.
5. ALL EQUIPMENT SHALL BE U.L. LISTED.
6. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES..
7. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
8. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
9. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
10. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR WILL PROVIDE OPEN CONTACT ON ALARM WITHIN THREE FEET OF THE STARTER.
11. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
12. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
13. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
14. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72 SECTION 7.5.4.
15. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
16. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON STYLE 4 SLC LOOPS WHERE TAPS ARE LOCATED IN METALLIC JUNCTION BOXES).
17. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD AND WIRELESS DACT TRANSMITTER FOR OWNER PROVIDED CENTRAL STATION MONITORING VIA TELEPHONE LINES.
18. COORDINATE EXACT QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS PRIOR TO ROUGH-IN.
19. FA NOTIFICATION DEVICE SPACING IS SHOWN ONLY FOR DESIGN PURPOSES. FIRE ALARM CONTRACTOR SHALL LOCATE DEVICES BASED ON THE LISTED COVERAGE OF THE SELECTED DEVICE AND ADJUST FIRE ALARM SHOP DRAWINGS AS NEEDED.
20. PROVIDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR AUTHORITY HAVING JURISDICTION (AHJ).
21. BUILDING IS FULLY SPRINKLERED, SO AREA DETECTION IS NOT PROVIDED IN STORAGE ROOMS. HOWEVER, THE DETECTORS HAVE BEEN PROVIDED IN LOCATIONS WHERE THERE WILL BE SPECIALTY EQUIPMENT/CHEMICALS STORED.



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1 FIRST FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: FIRST FLOOR PLAN - FIRE ALARM

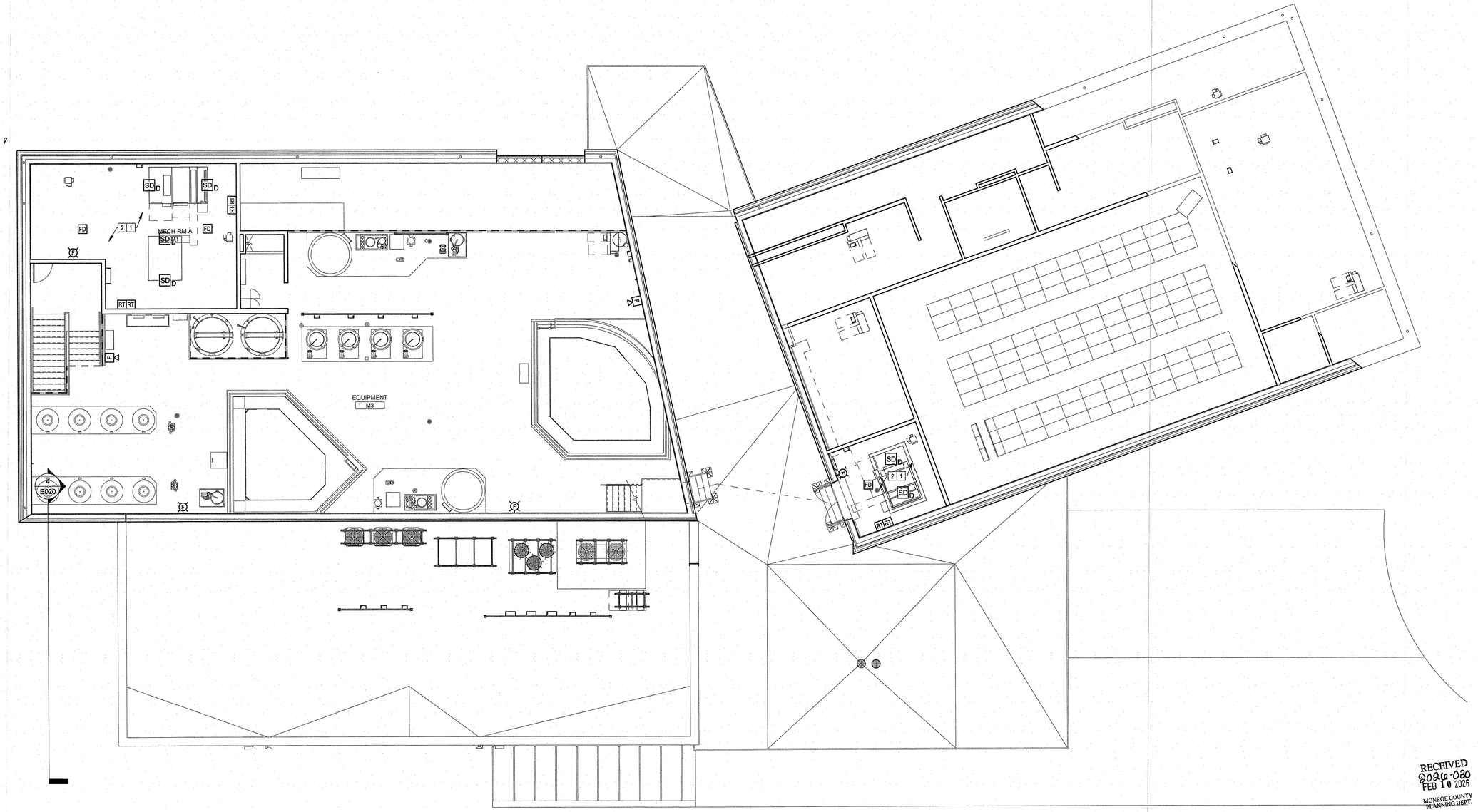
Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E301

PLOTTED: 12/12/2025 11:44:38 AM

KEYNOTES:

1. PROVIDE DUCT SMOKE DETECTORS. COORDINATE ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. COORDINATE FINAL LOCATION OF REMOTE RELAYS AND TEST SWITCHES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



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1 MEZZANINE FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

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Division of Recreation and Parks
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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: MEZZANINE FLOOR PLAN - FIRE ALARM

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E302

PLOTTED: 12/12/2025 11:44:57 AM

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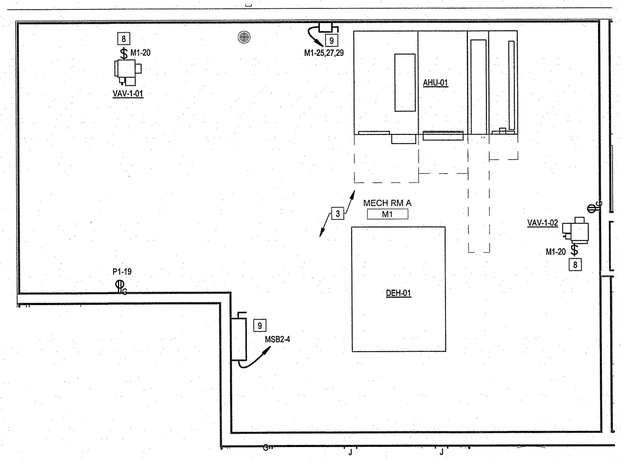
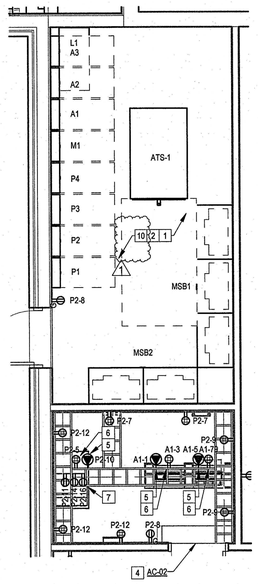
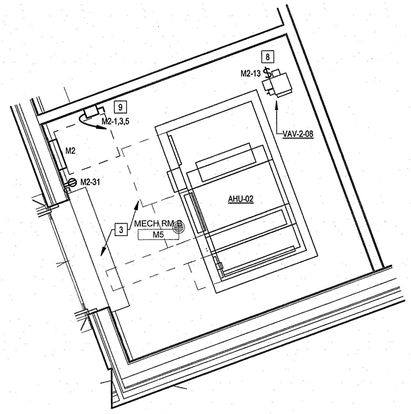


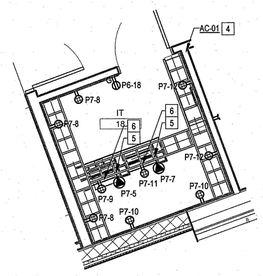
2 ENLARGED MECHANICAL ROOM A - POWER
1/4" = 1'-0"



1 ENLARGED MAIN ELECTRICAL AND IT ROOMS - POWER
1/4" = 1'-0"



3 ENLARGED MECHANICAL ROOM B - POWER
1/4" = 1'-0"



4 ENLARGED CONCESSION IT ROOM - POWER
1/4" = 1'-0"

KEYNOTES:

1. PROVIDE 4" HOUSE KEEPING CONCRETE FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
2. DOORS IN THIS ELECTRICAL ROOM SHALL BE PROVIDED WITH PANIC HARDWARE PER NFPA 70 - 110.26(C)(3). REFER TO ARCHITECTURAL DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. COORDINATE ELECTRICAL EQUIPMENT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
4. INDOOR UNIT PROWERED FROM OUTDOOR UNIT. PROVIDE 30A DISCONNECT SWITCH STRANDED WIRING PER MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE DEDICATED L5-30R TWIST LOCK RECEPTACLE ABOVE RACK. MOUNT TO LADDER TRAY. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
6. PROVIDE DEDICATED 5-20R QUAD RECEPTACLE ABOVE RACK. MOUNT TO LADDER TRAY. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
7. PROVIDE (3) DEDICATED 120V/20A RECEPTACLES IN AV RACK. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV INTEGRATOR PRIOR TO ROUGH-IN.
8. PROVIDE POWER CONNECTION TO VAV WITHOUT HEAT. STEPDOWN TRANSFORMER PROVIDED BY MECHANICAL CONTRACTOR.
9. REFER TO SHEET E707 FOR MECHANICAL EQUIPMENT DISCONNECT SIZES.
10. ELECTRICAL CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING SWITCHGEAR MEETS CODE REQUIRED CLEARANCES PRIOR TO RELEASE OF ANY SWITCHGEAR.

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1	Revision 1	12/12/2025

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
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JOHN PENNEKAMP

Sheet Title: ENLARGED PLANS - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
E401

PLOTTED:
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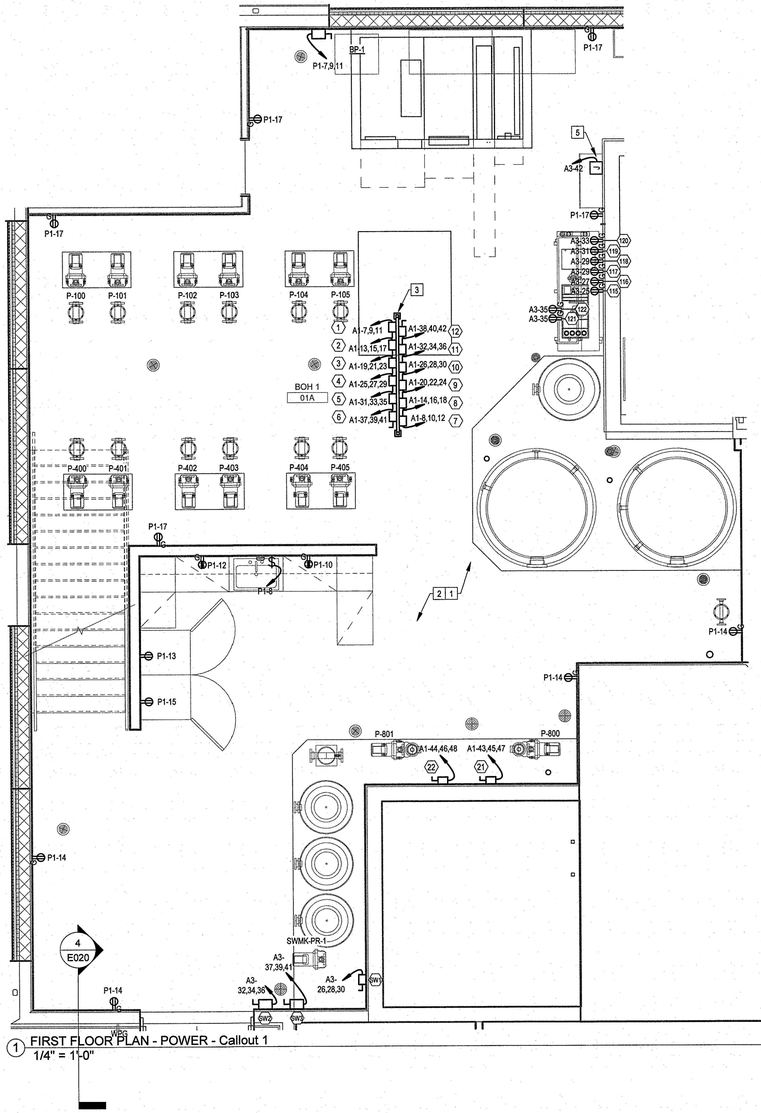
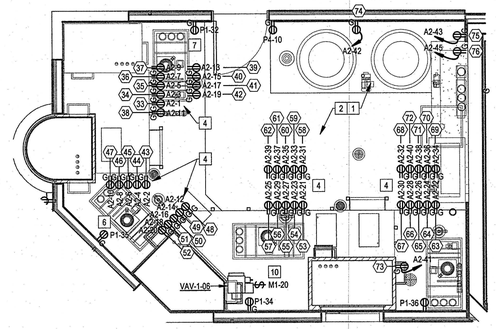


1 FIRST FLOOR PLAN - POWER - Callout 1
1/4" = 1'-0"



2 FIRST FLOOR PLAN - POWER - Callout 3
1/4" = 1'-0"

KEYNOTES:

1. ALL 120V 15A AND 20A RECEPTACLES SERVING AQUARIUM LIFE SUPPORT EQUIPMENT SHALL BE GFI PROTECTED.
2. ALL 208V AND 120V SINGLE PHASE RECEPTACLES SERVING AQUARIUM LIFE SUPPORT EQUIPMENT SHALL BE IN PLASTIC IN-USE COVERS.
3. PROVIDE UNISTRUT FOR MOUNTING OF VFD WITH INTEGRAL DISCONNECT SWITCH SERVING LIFE SUPPORT PUMPS. COORDINATE FINAL LOCATION AND ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING AND LIFE SUPPORT CONTRACTORS PRIOR TO ROUGH-IN.
4. PROVIDE UNISTRUT FOR MOUNTING OF LIFE SUPPORT EQUIPMENT RECEPTACLES. MOUNT RECEPTACLES ALIGNED VERTICALLY TO MAINTAIN ACCESS TO EQUIPMENT FOR MAINTENANCE. COORDINATE FINAL LOCATION AND ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING AND LIFE SUPPORT CONTRACTORS PRIOR TO ROUGH-IN.
5. PROVIDE DEDICATED HARDWIRED CONNECTION TO LIFE-SUPPORT CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH LIFE SUPPORT CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT LOBSTER TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
7. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT LIONFISH TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
8. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT ADAPTATION TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
9. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT LIVE CORAL TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
10. PROVIDE POWER CONNECTION TO VAV WITHOUT HEAT. STEPDOWN TRANSFORMER PROVIDED BY MECHANICAL CONTRACTOR.

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SYMBOL	REVISION	DATE

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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JOHN PENNEKAMP

Sheet Title: ENLARGED PLANS - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
E402

PLOTTED:
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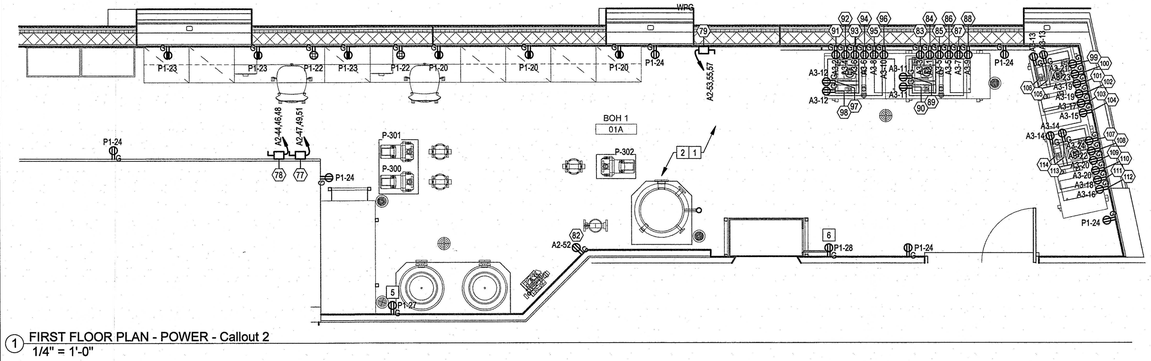
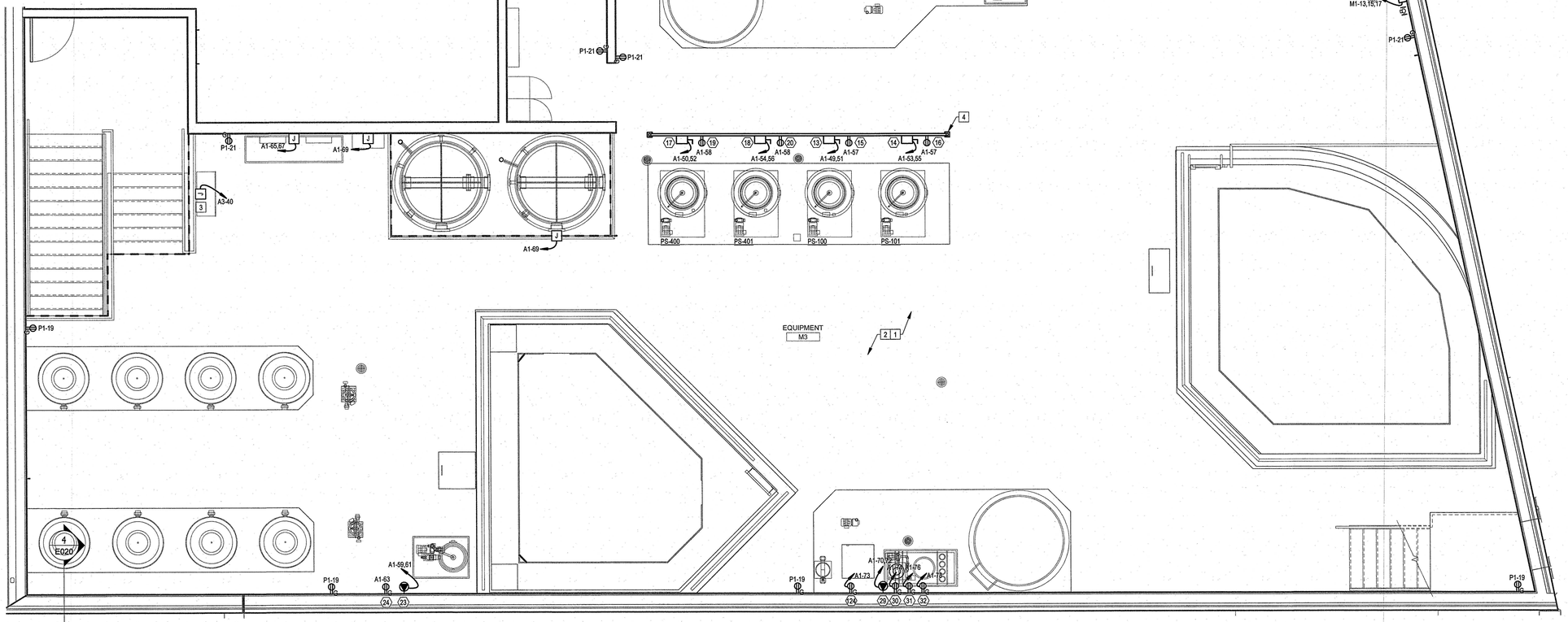


1 FIRST FLOOR PLAN - POWER - Callout 2
1/4" = 1'-0"

KEYNOTES:

1. ALL120V 15A AND 20A RECEPTACLES SERVING AQUARIUM LIFE SUPPORT EQUIPMENT SHALL BE GFI PROTECTED.
2. ALL 208V AND 120V SINGLE PHASE RECEPTACLES SERVING AQUARIUM LIFE SUPPORT EQUIPMENT SHALL BE IN PLASTIC IN-USE COVERS.
3. PROVIDE DEDICATED HARDWIRED CONNECTION TO LIFE-SUPPORT CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH LIFE SUPPORT CONTRACTOR PRIOR TO ROUGH-IN.
4. PROVIDE UNISTRUT FOR MOUNTING OF DISCONNECT SWITCHES AND RECEPTACLES SERVING LIFE SUPPORT PUMPS AND EQUIPMENT. COORDINATE FINAL LOCATION AND ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING AND LIFE SUPPORT CONTRACTORS PRIOR TO ROUGH-IN.
5. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT MANGROVE TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.
6. PROVIDE RECEPTACLE ON UNISTRUT FOR DMX POWER SUPPLY TO SUPPORT MANGROVE TANK LIGHTING. REFER TO EXHIBIT DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH-IN.



2 MEZZANINE FLOOR PLAN - POWER - Callout 1
1/4" = 1'-0"

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ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

Consultant:

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I HEREBY CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA, LICENSE NO. 85143

SIGNATURE AND SEAL OF FLORIDA REGISTERED ENGINEER

SIGNATURE: JOHN E. SWEENEY, P.E.
24HRS HARD DRIVE, SUITE 100
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JOHN PENNEKAMP

Sheet Title: ENLARGED PLANS - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
E403

PLOTTED:
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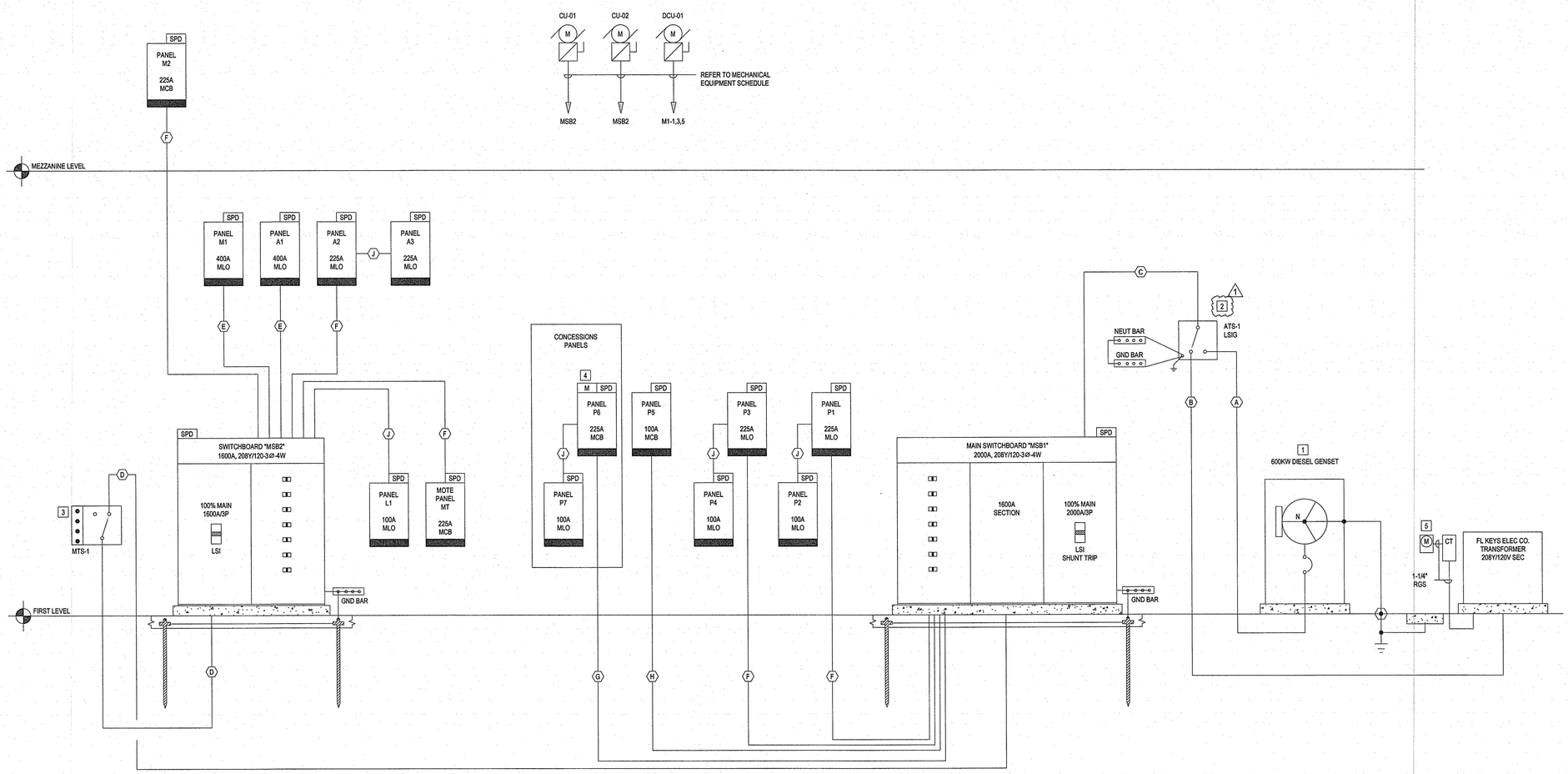

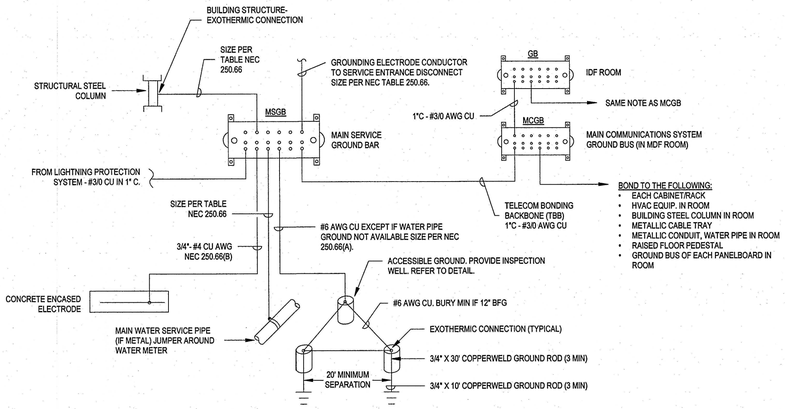

NOTE:

1. BOND ALL GROUNDING ELECTRODES PER NEC ART. 250.
2. ALL GROUNDING ELECTRODES SPECIFIED IN NEC 250.52(A)(1) THRU (A)(7) THAT ARE PRESENT ON SITE SHALL BE BONDED TOGETHER AND USED. IF NONE OF THESE GROUNDING ELECTRODES ARE PRESENT, ONE OR MORE OF THE "MADE" ELECTRODES SPECIFIED IN 250.52(A)(4) THRU (A)(8) SHALL BE INSTALLED AND USED.
3. PROVIDE GROUND ROD SYSTEM IN TRIAD FORMATION AS INDICATED.
4. DRIVE GROUND RODS FULL LENGTH INTO GROUND. TOP OF ROD 12" MIN BELOW FINISHED GRADE.

1 SERVICE GROUNDING DETAIL
NTS

FEEDER SCHEDULE

MARK	OCPD	CONDUCTOR SIZE	RACEWAY	NOTES
A	-	EMPTY RACEWAY	(8) 4" CONDUITS	
B	2000A	(5) SETS OF (4) #600 KCMIL CU.	4" EA. + (1) 4" SPARE	
C	2000A	(5) SETS OF (4) #600 KCMIL CU, (1) #250 KCMIL GND.	4" EA. + (1) 4" SPARE	
D	1600A	(4) SETS OF (4) #600 KCMIL CU, (1) #4/0 GND.	4" EA.	
E	400A	(2) SETS OF (4) #3/0 AWG CU, (1) #3 GND.	2-1/2" EA.	
F	225A	(4) #4/0 AWG CU, (1) #4 GND.	2-1/2".	
G	225A	(2) SETS OF (4) #4/0 AWG CU, (1) #4 GND.	2-1/2" EA.	(1)
H	100A	(4) #2/0 AWG CU, (1) #3 GND.	2-1/2".	(1)
J	100A	(4) #3 AWG CU, (1) #8 GND.	1-1/4".	

NOTES: 1. UPSIZED FOR VOLTAGE DROP CONSIDERATIONS.

GENERAL NOTES:

1. BASIS OF DESIGN FOR POWER DISTRIBUTION EQUIPMENT IS SQUARE-D. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
2. BASIS OF DESIGN FOR FUTURE GENERATOR'S PHYSICAL SPACE IS MTU/ROLLS ROYCE.
3. BASIS OF DESIGN FOR TRANSFER SWITCHES IS ASCO. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
4. PROVIDE FIELD MARKING OF THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT PER NEC 110.24. FIELD MARKING SHALL BE LEGIBLE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
5. SERVICE TRANSFORMER PROVIDED BY FLORIDA KEYS ELECTRIC COOPERATIVE. CONCRETE PAD SHALL BE PROVIDED BY CONTRACTOR. COORDINATE PAD SIZE AND OTHER REQUIREMENTS WITH THE UTILITY. COORDINATE ELECTRICAL SERVICE WITH THE UTILITY PRIOR TO START OF ANY WORK.
6. ALL DISTRIBUTION PANELS & PANELBOARDS SHALL BE FULLY RATED.
7. PROVIDE ARC FLASH HAZARD LABELS ON ALL DISTRIBUTION PANELS & PANELBOARDS IN ACCORDANCE WITH NFPA 70E 130.5(D).
8. PERFORM SHORT-CIRCUIT AND COORDINATION STUDY. SET THE FIELD ADJUSTABLE CIRCUIT BREAKERS TRIP RANGES. ELECTRICAL CONTRACTOR SHALL HIRE THE MANUFACTURER OF THE POWER DISTRIBUTION SYSTEM TO SET TIME CURRENT CURVES ON THE MAIN CIRCUIT BREAKER AND ASSOCIATED BRANCH CIRCUIT BREAKERS FOR THE MAIN DISTRIBUTION PANELS & PANELBOARDS SO THAT THEY ARE SELECTIVELY COORDINATED WITH EACH OTHER. THE INTERRUPTING RATING OF ALL ELECTRICAL EQUIPMENTS SHALL BE BASED ON THE DATA RESULTS FROM THE SHORT-CIRCUIT & COORDINATION STUDY.

KEYNOTES:

1. INFRASTRUCTURE TO BE PROVIDED FOR FUTURE GENERATOR. GENERATOR TO BE PURCHASED BY OWNER AT A LATER DATE.
2. NFPA 70 ARTICLE 702 ATS, UL 1008 LISTED, NFPA 110 COMPLIANT, 4 POLE, 2000A, TYPE 1 ENCLOSURE, 208V, 65KAIC, WITH PRE-SIGNAL DISCONNECT CONTACTS, 120VAC SHUNT TRIP, COMM MODULE FOR BACnet TCP/IP COMMUNICATION CAPABILITY. ATS SHALL BE SERVICE ENTRANCE RATED. BASIS OF DESIGN: ASCO 300 SERIES OR APPROVED EQUAL.
3. PROVIDE 4-POLE, 1600A NEMA 4X RATED MANUAL TRANSFER SWITCH TO SERVE AQUARIUM LIFE SUPPORT LOADS AND FUNCTIONALITY. BASIS OF DESIGN: ASCO 300 SERIES OR APPROVED EQUAL.
4. PROVIDE ENERGY METER FOR MONITORING OF CONCESSIONS, SHOP STORAGE, COUNTING AND IT EQUIPMENT LOADS. ENERGY METER SHALL BE CAPABLE OF INTEGRATING WITH BMS SYSTEM (BACnet) BASIS OF DESIGN: HONEYWELL E-MON 3200 OR APPROVED EQUAL.
5. COORDINATE METERING AND CT CABINET REQUIREMENTS WITH FLORIDA KEYS ELEC CO PRIOR TO RELEASE OF TRANSFORMER.

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1	Revision 1	12/12/2025

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COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

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Sheet Title: RISER DIAGRAM - ELECTRICAL
JOHN PENNEKAMP
Project Title: NEW INTERPRETIVE CENTER, JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
E501

PLOTTED:
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12/12/2025 11:46:19 AM
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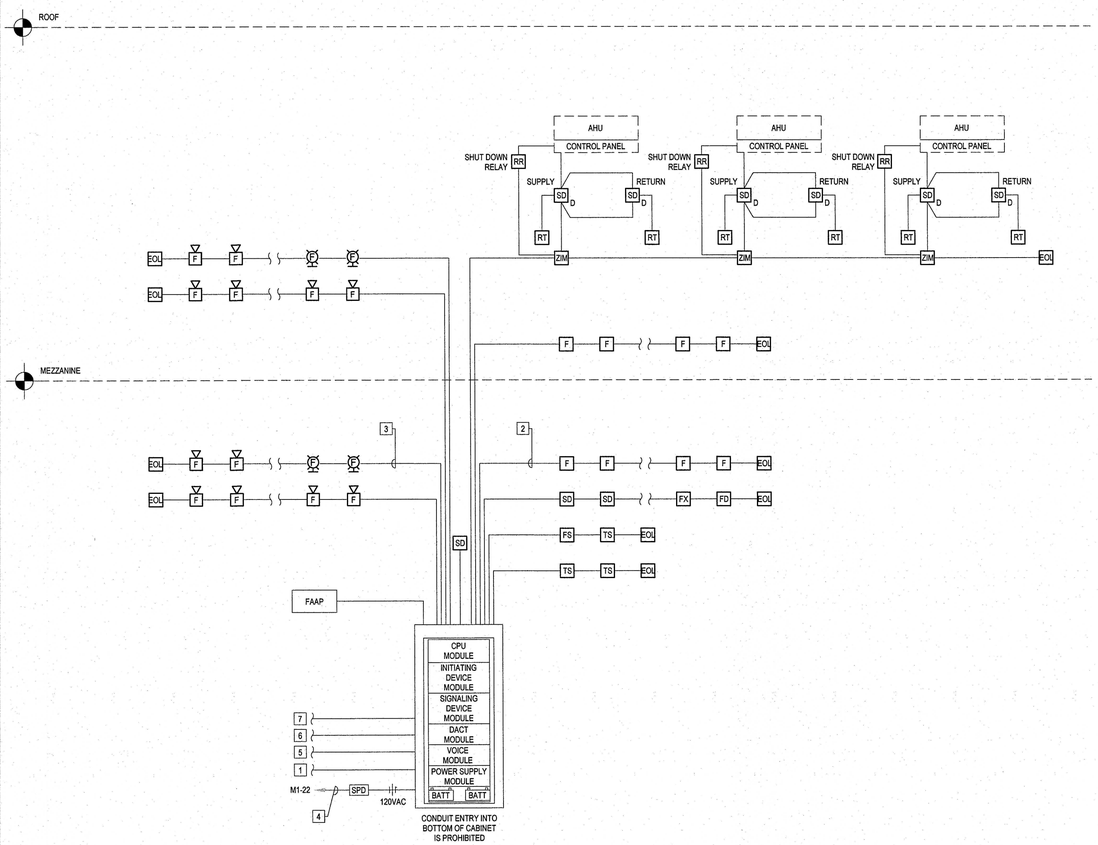

1 TYPICAL FIRE ALARM TYPICAL RISER DIAGRAM
NTS

FIRE ALARM GENERAL NOTES:

NOTES: UNLESS OTHERWISE NOTED ON PLANS

1. ALL WIRING SHALL BE POWER LIMITED
2. INSTALLATION SHALL COMPLY WITH NFPA CODE'S EDITIONS AS PUBLISHED IN FAC 69A-60.
3. INSTALLATION SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE 2023 EDITION.
4. CONDUIT, AS APPLICABLE SHALL BE 3/4" MINIMUM, UNLESS NOTED OTHERWISE, WITH A MAXIMUM FILL OF 40%. COMPLY WITH NEC. CONDUIT, AS APPLICABLE SHALL BE 1" MINIMUM WITH A MAXIMUM FILL OF 40%. COMPLY WITH NEC FOR CONDUIT THAT IS RUN UNDERGROUND.
5. SYSTEM SHALL BE GROUNDED PER MANUFACTURERS SPECIFICATIONS.
6. SYSTEM COMPONENTS SHALL BE UL LISTED AND COMPATIBLE.
7. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF A/C DIFFUSERS.
8. CIRCUITS LEAVING THE BUILDING MUST HAVE SURGE PROTECTION INSTALLED. SURGE PROTECTION TO BE PROVIDED FOR 120VAC POWER, AND TELEPHONE CONNECTIONS TO FIRE ALARM.
9. FIRE ALARM PANEL & ANY ASSOCIATED FIRE ALARM EQUIPMENT MUST BE FED WITH A 120VAC, SINGLE PHASE, 20 AMP, DEDICATED BREAKER LOCKED AND MARKED.
10. SPEAKERS TO SOUND AN AUTOMATIC PRE-RECORDED MESSAGE.
11. STROBES TO BE SYNCHRONIZED.

IT SHALL BE UNDERSTOOD THAT THE CONDUIT SHOWN ON THESE DRAWINGS ARE DRAWN DIAGRAMMATICALLY. DUE TO UNKNOWN FIELD CONDITIONS CONDUIT ROUTING MAY BE INSTALLED DIFFERENTLY THAN SHOWN. WORST CASE SCENARIOS WERE CONSIDERED WHEN CALCULATING THE VOLTAGE DROPS AND CURRENT LIMITATIONS DURING THE DESIGN PROCESS. LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS.

SEQUENCE OF OPERATION:

UPON ACTIVATION OF ANY MANUAL STATION THE FOLLOWING SHALL OCCUR:

1. ALL HORNS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED.
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. AN ALARM SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. A SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF ANY AUTOMATIC DEVICE THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED.
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. AN ALARM SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. A SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF A DUCT SMOKE DETECTOR, THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. A SUPERVISORY SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. SHUT DOWN ASSOCIATED AIR-HANDLING EQUIPMENT.
5. A SUPERVISORY SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF A SPRINKLER SUPERVISORY DEVICE, THE FOLLOWING SHALL OCCUR:

1. A SUPERVISORY SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM PONT NUMBER AND POINT DESCRIPTION.
2. A SUPERVISORY SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON A TROUBLE CONDITION THE FOLLOWING SHALL OCCUR:

1. TROUBLE TONE SHALL SOUND AT FACP. DISPLAY DESCRIPTION OF TROUBLE CONDITION.
2. A TROUBLE SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

KEYNOTES:

1. PROVIDE 1" CONDUIT FOR DACT CIRCUIT CABLING.
2. 3/4" C, WITH INITIATING DEVICE CIRCUITING AS REQUIRED BY SYSTEM MANUFACTURER.
3. 3/4" C, WITH NOTIFICATION APPLIANCE CIRCUIT WIRING AS REQUIRED BY THE SYSTEM MANUFACTURER.
4. 3/4" C, WITH (2) #12 & (1) #12 GND HOMERUN TO PANELBOARD. CIRCUIT BREAKER SHALL BE PROVIDED WITH 'RED' OPERATING HANDLE AND A 'LOCK-ON' DEVICE.
5. 3/4" C FOR CONNECTION TO WIRELESS DACT TRANSMITTER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AHJ PRIOR TO ROUGH-IN.
6. 3/4" C FOR INTEGRATION WITH BDAIERCES SYSTEM. COORDINATE ADDITIONAL CONNECTION REQUIREMENT WITH LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
7. PROVIDE (4) ADDITIONAL DRY CONTACTS FOR MUTING OF AV SYSTEMS.

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ISSUE DATE:	08.29.2025
COMP. FILE No.:	0000000
STATE PROJECT No.:	21086
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Consultant:	

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JOHN PENNEKAMP

Sheet Title: FIRE ALARM RISER DIAGRAM - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E502

PLOTTED: 12/12/2025 11:46:33 AM

12/12/2025 11:46:33 AM
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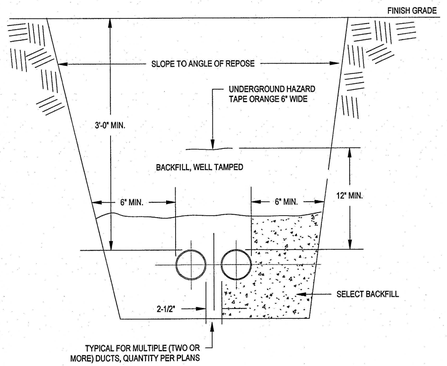

8 TYPICAL TRENCH DETAIL
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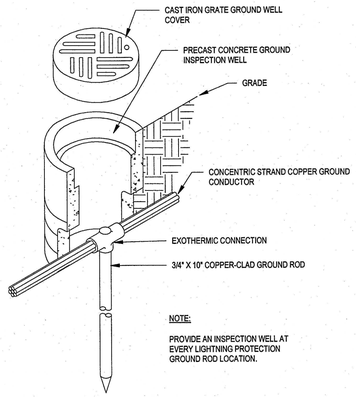
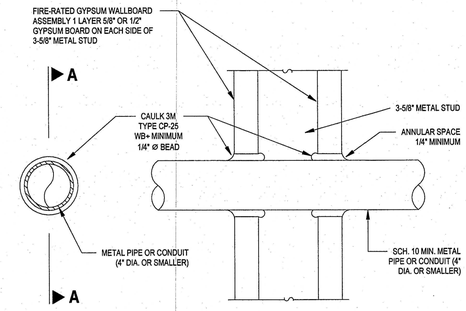
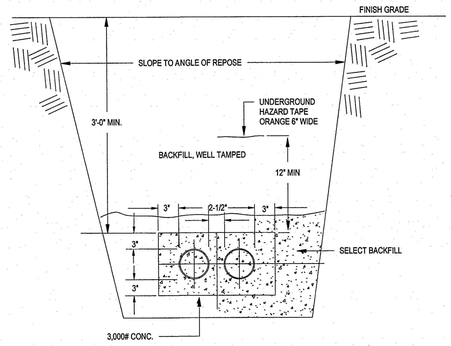


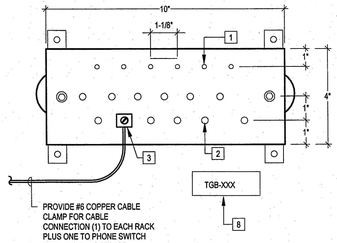
5 GROUND INSPECTION WELL
NTS



1 ONE HOUR FIREWALL PENETRATION DETAIL
NTS



9 TYPICAL ENCASED DUCT DETAIL
NTS

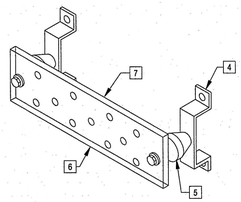


GENERAL:

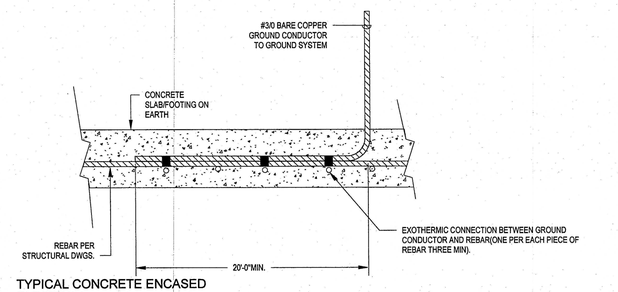
1. ALL HARDWARE (BOLTS, NUTS WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
2. BUSBAR SHALL BE 1/4" THICK(MINIMUM).
3. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.

NOTE[XX]:

1. #6/32 (TYPICAL)
2. #9/32 (TYPICAL)
3. PROVIDE COPPER CABLE CLAMPS FOR CABLE CONNECTIONS (BY DIV.26).
4. STANDOFF BRACKET
5. INSULATOR
6. CADWELD544A018 OR EQUAL
7. COPPER BUSBAR
8. PROVIDE WHITE CORE BAKELITE NAMEPLATE FASTENED TO A WALL/SURFACE BELOW BUSBAR AT EACH FLOOR, WITH DESIGNATION ENGRAVED THEREON IN 1/2" HIGH LETTERS.

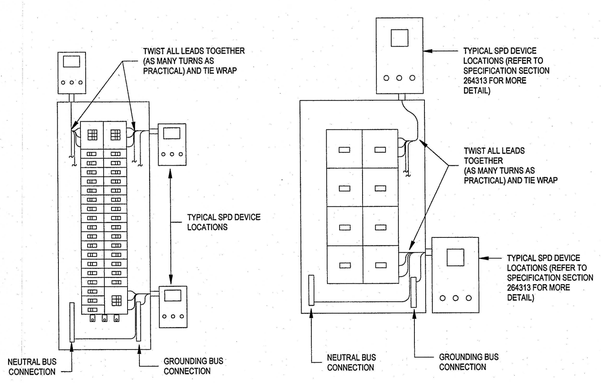


6 TYPICAL GROUND BUS BAR DETAIL
NTS



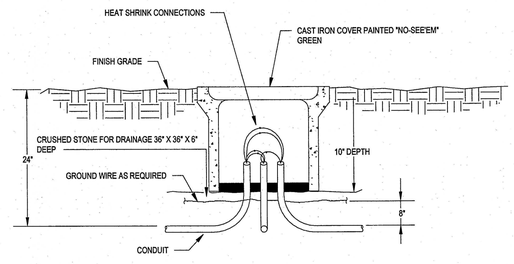
2 TYPICAL CONCRETE ENCASED ELECTRODE
NTS

NOTE:
MOUNT SPD DEVICE IN A LOCATION TO MAINTAIN LEADS AS SHORT AS POSSIBLE. (24" MAX.)

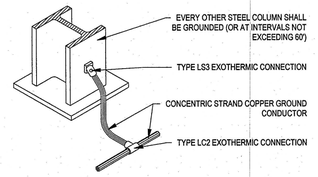


10 SPD INSTALLATION DETAIL
NTS

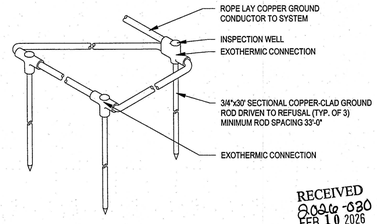
ON DEFPOINTS
NOT PERMITTED IN SOUTH FLORIDA



7 SPLICE BOX SECTION
NTS



4 COLUMN GROUNDING
NTS



3 TYPICAL GROUND ARRAY DETAIL
NTS

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3800 Commonwealth Blvd, Tallahassee, FL 32399 (850)245-2157

GW K2M IWIO roto Kimley»Horn
CURTIS + HOSKINS ARCHITECTS

SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW

Consultant: CDCI ASSOCIATES, INC
2 Harvard Circle, Suite 100, West Palm Beach, FL 33409 (561) 686-6886 www.cdciassociates.com
Orlando | Fort Pierce | Fort Myers | West Palm Beach | Tampa | Washington DC | Miami | Dallas | San Francisco | Sarasota

STATE OF FLORIDA PROFESSIONAL ENGINEER
WILLIAM K. BROWN LICENSE No. 83143
Signature Date: 12/12/2025
SUSHAMA MISRA-BROWN, P.E. 83143
WATER RESOURCES ENGINEERING
FL. REG. No.: 0783143

JOHN PENNEKAMP

Sheet Title: DETAILS - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E601

PLOTTED: 12/12/2025 11:46:44 AM

12/12/2025 11:46:44 AM
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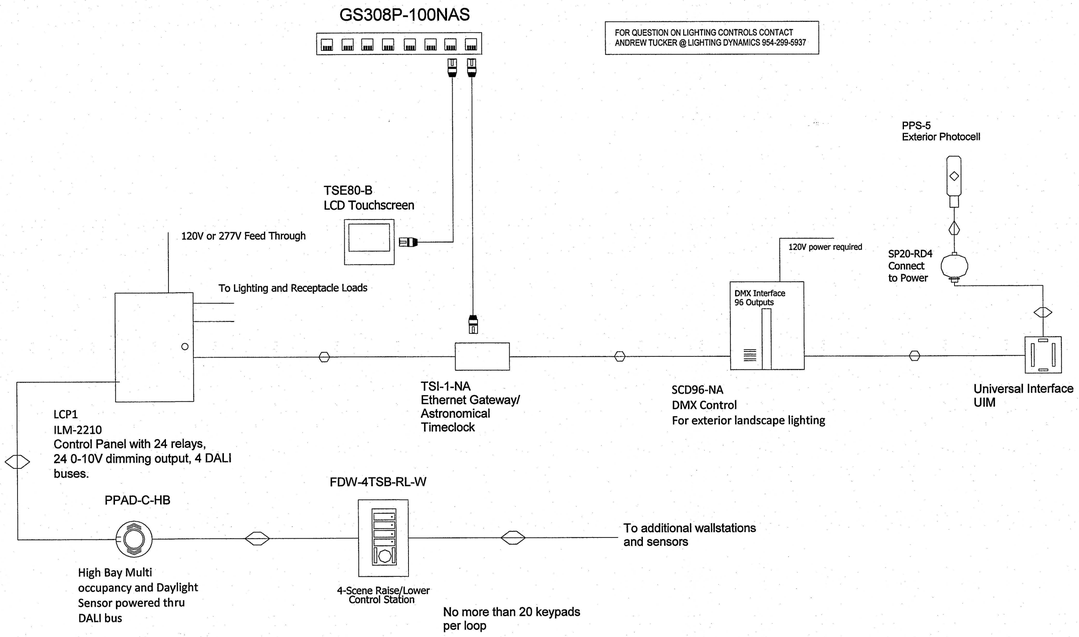


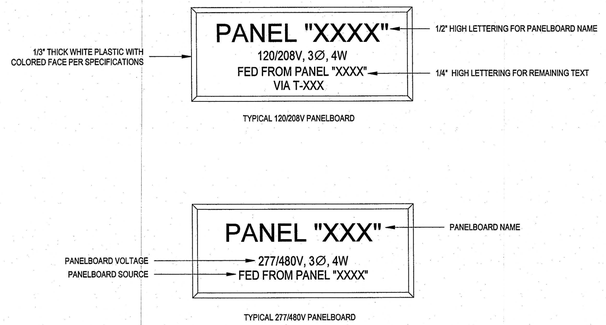
4 LIGHTING CONTROL ONE LINE DIAGRAM
NTS

Notes

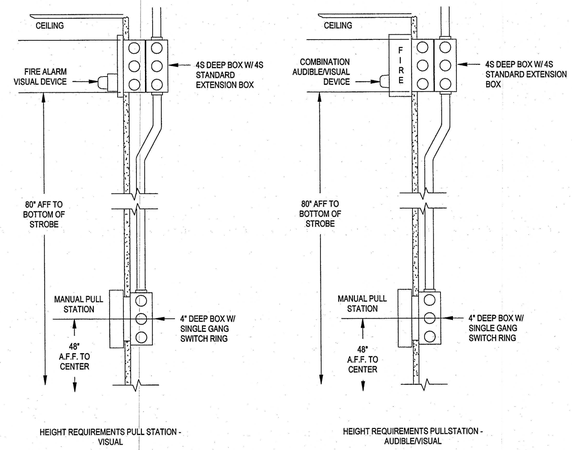
1	This one-line drawing is for concept only. Every wire is not shown. Wire according to the product installation/wiring instructions.
2	Refer to plans for locations, size, and quantity.
3	Refer to all manufacturers installation instructions for correct wiring information

Cables

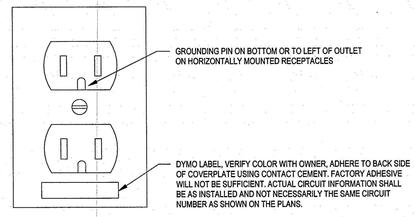
○	CAN	Use Belden# 1502R non-plenum cable or 1502P plenum cable.
△	LV3	Low Voltage Input wire - #18 AWG, 3 conductor wire
◇	LV2	Low Voltage Input wire - #18 AWG, 2 conductor wire



1 PANELBOARD NAMEPLATE
NTS



2 FIRE ALARM WALL DEVICE MOUNTING DETAIL
NTS



NOTES:

1. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL
2. DO NOT INSTALL RECEPTACLES,COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

3 TYPICAL RECEPTACLE IDENTIFICATION
NTS

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PLANNING DEPT.

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant: CDA ASSOCIATES

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Bureau of Design and Construction
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JOHN PENNEKAMP

Sheet Title: DETAILS - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E602

PLOTTED: 12/12/2025 11:46:57 AM

12/12/2025 11:46:57 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

Switchboard: MSB2

LOCATION: ELEC 04
SUPPLY FROM: MSB1
MOUNTING: Floor
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 65kA
MAINS TYPE: MCB
MAINS RATING: 1600 A
MCB RATING: 1600 A

CKT	CICUIT DESCRIPTION	POLES	FRAME SIZE	TRIP RATING		LOAD	NOTES
1	SPD	3	125 A	60 A		0 kVA	
2	CU-02	3	250 A	150 A		32.26 kVA	
3	CU-01	3	250 A	200 A		45.79 kVA	
4	DEH-01	3	400 A	300 A		76.68 kVA	
5	MT	3	250 A	225 A		54 kVA	
6	L1	3	125 A	100 A		15.98 kVA	
7	M1	3	400 A	400 A		73.37 kVA	
8	M2	3	250 A	225 A		58.88 kVA	
9	A1	3	400 A	400 A		88.84 kVA	
10	A2	3	250 A	225 A		78.38 kVA	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
					TOTAL CONN. LOAD:	524.18 kVA	
					TOTAL CONN. AMPS:	1455 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	15.57 kVA	125.00%	19.46 kVA		
Motor	242.53 kVA	104.72%	253.98 kVA	Total Conn. Load:	524.18 kVA
Other	54 kVA	100.00%	54 kVA	Total Est. Demand:	539.52 kVA
Heating	161.96 kVA	100.00%	161.96 kVA	Total Conn. Current:	1455 A
Receptacle	0.9 kVA	100.00%	0.9 kVA	Total Est. Demand Current:	1498 A
Equipment	49.22 kVA	100.00%	49.22 kVA		

NOTE LEGEND:
G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

Switchboard: MSB1

LOCATION: ELEC 04
SUPPLY FROM:
MOUNTING: Floor
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 65kA
MAINS TYPE: MCB
MAINS RATING: 2000 A
MCB RATING: 2000 A

CKT	CICUIT DESCRIPTION	POLES	FRAME SIZE	TRIP RATING		LOAD	NOTES
1	SPD	3	125 A	60 A		0 kVA	
2	MSB2	3	1600 A	1600 A		524.18 kVA	
3	P1	3	250 A	225 A		46.84 kVA	
4	P3	3	250 A	225 A		16.79 kVA	
5	P5	3	250 A	225 A		29.42 kVA	
6	P4	3	125 A	100 A		10.84 kVA	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
					TOTAL CONN. LOAD:	630.07 kVA	
					TOTAL CONN. AMPS:	1749 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	30.75 kVA	125.00%	38.44 kVA		
Motor	251.45 kVA	104.55%	262.9 kVA	Total Conn. Load:	630.07 kVA
Other	54 kVA	100.00%	54 kVA	Total Est. Demand:	627.14 kVA
Heating	161.96 kVA	100.00%	161.96 kVA	Total Conn. Current:	1749 A
Receptacle	54.13 kVA	59.24%	32.07 kVA	Total Est. Demand Current:	1741 A
Equipment	77.78 kVA	100.00%	77.78 kVA		

NOTE LEGEND:
G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

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3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

ODGI ASSOCIATES
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LICENSED ELECTRICAL ENGINEERING
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 63143
Jun 27 2025

SUDHARSAN VASUDAVARADHAN, P.E.
WEST PALM BEACH, FL 33409
PH: 561.640.4555

JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number:
E701

PLOTTED:
12/12/2025 11:47:11 AM

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Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

Branch Panel: A3

LOCATION: ELEC 04
SUPPLY FROM: A2
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		HX-500A CHILLER	20 A	1	1.56	0.18					1	20 A	P-500B SUPPLY PUMP		2
3		P-500A SUPPLY PUMP	20 A	1			0.18	1.56			1	20 A	HX-500B CHILLER		4
5		HT-500/1A HEATER	20 A	1					0.4	0.4	1	20 A	HT-500/1B HEATER		6
7		PS-500A PROTEIN SKIMMER	20 A	1	0.12	0.12					1	20 A	PS-500B PROTEIN SKIMMER		8
9		UV-500A UV STERILIZER	20 A	1			0.12	0.12			1	20 A	UV-500B UV STERILIZER		10
11		CP-500/1A CONTROLLER	20 A	1					0.36	0.36	1	20 A	CP-500/1B CONTROLLER		12
13		CP-500/1C CONTROLLER	20 A	1	0.36	0.36					1	20 A	CP-500/1D CONTROLLER		14
15		UV-500C UV STERILIZER	20 A	1			0.12	0.12			1	20 A	UV-500D UV STERILIZER		16
17		PS-500C PROTEIN SKIMMER	20 A	1					0.12	0.12	1	20 A	PS-500D PROTEIN SKIMMER		18
19		HT-500/1C HEATER	20 A	1	0.4	0.4					1	20 A	HT-500/1D HEATER		20
21		P-500C SUPPLY PUMP	20 A	1			0.18	1.56			1	20 A	HX-500D CHILLER		22
23		HX-500C CHILLER	20 A	1					1.56	0.18	1	20 A	P-500D SUPPLY PUMP		24
25		P-600 SUPPLY PUMP	20 A	1	0.18	0.94					3	15 A	SMK-PR-1		26
27		HX-600 CHILLER	20 A	1			1.56	0.94			--	--	--	--	28
29		HT-600/1 HEATER	20 A	1					0.4	0.94	--	--	--	--	30
31		PS-600 PROTEIN SKIMMER	20 A	1	0.18	1.32					3	20 A	SWMK-PI-1		32
33		UV-600 UV STERILIZER	20 A	1			0.18	1.32			--	--	--	--	34
35		CP-600/1 CONTROLLER	20 A	1					0.36	1.32	--	--	--	--	36
37		SWMK-PI-2	20 A	3	1.32	0.21					1	20 A	PUMP HOUSE REC.		38
39	--	--	--	--			1.32	0.5			1	20 A	MEZZANINE CONTROL PANEL		40
41	--	--	--	--					1.32	0.5	1	20 A	BOH CONTROL PANEL		42
43	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	44
45	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	46
47	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	48
49	--	SPARE	20 A	1	0	0					3	30 A	SPD	--	50
51	--	SPARE	20 A	1			0	0			--	--	--	--	52
53	--	SPARE	20 A	1					0	0	--	--	--	--	54
					Total Load:		7.65 kVA		9.78 kVA		8.34 kVA				
					Total Amps:		64 A		82 A		70 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	11.26 kVA	100.00%	11.26 kVA	
Heating	2 kVA	100.00%	2 kVA	Total Conn. Load: 25.76 kVA
Motor	12.29 kVA	108.06%	13.28 kVA	Total Est. Demand: 26.76 kVA
Receptacle	0.18 kVA	100.00%	0.18 kVA	Total Conn.: 72 A
Lighting	0.03 kVA	125.00%	0.04 kVA	Total Est. Demand: 74 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: A2

LOCATION: ELEC 04
SUPPLY FROM: MSB2
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		P-200A SUPPLY PUMP	20 A	1	0.18	0.18					1	20 A	P-200B SUPPLY PUMP		2
3		P-201A FLOW PUMP	20 A	1			0.18	0.18			1	20 A	P-201B FLOW PUMP		4
5		P-202A FLOW PUMP	20 A	1					0.18	0.18	1	20 A	P-202B FLOW PUMP		6
7		P-203A FLOW PUMP	20 A	1	0.18	0.18					1	20 A	P-203B FLOW PUMP		8
9		P-204A FLOW PUMP	20 A	1			0.18	0.18			1	20 A	P-204B FLOW PUMP		10
11		HX-200A CHILLER	20 A	1					0.65	0.65	1	20 A	HX-200B CHILLER		12
13		HT-200A HEATER	20 A	1	0.4	0.4					1	20 A	HT-200B HEATER		14
15		HT-201A HEATER	20 A	1			0.4	0.4			1	20 A	HT-201B HEATER		16
17		PS-200A PROTEIN SKIMMER	20 A	1					0.12	0.12	1	20 A	PS-200B PROTEIN SKIMMER		18
19		UV-200A UV STERILIZER	20 A	1	0.18	0.18					1	20 A	UV-200B UV STERILIZER		20
21		P-200C SUPPLY PUMP	20 A	1			0.18	0.18			1	20 A	P-200D SUPPLY PUMP		22
23		P-201C FLOW PUMP	20 A	1					0.18	0.18	1	20 A	P-201D FLOW PUMP		24
25		P-202C FLOW PUMP	20 A	1	0.18	0.18					1	20 A	P-202D FLOW PUMP		26
27		P-203C FLOW PUMP	20 A	1			0.18	0.18			1	20 A	P-203D FLOW PUMP		28
29		P-204C FLOW PUMP	20 A	1					0.18	0.18	1	20 A	P-204D FLOW PUMP		30
31		HX-200C CHILLER	20 A	1	0.65	0.65					1	20 A	HX-200D CHILLER		32
33		HT-200C HEATER	20 A	1			0.4	0.4			1	20 A	HT-200D HEATER		34
35		HT-201C HEATER	20 A	1					0.4	0.4	1	20 A	HT-201D HEATER		36
37		PS-200C PROTEIN SKIMMER	20 A	1	0.12	0.12					1	20 A	PS-200D PROTEIN SKIMMER		38
39		UV-200C UV STERILIZER	20 A	1			0.18	0.18			1	20 A	UV-200D UV STERILIZER		40
41		P-200D DOSING PUMP	20 A	1					0.18	1.26	1	20 A	P-900 RECIRC PUMP		42
43		P-1100 RECIRC PUMP	20 A	1	0.36	2.2					3	20 A	P-301 SUPPLY PUMP		44
45		RO-1100 RO UNIT	20 A	1			0.96	2.2			--	--	--	--	46
47		P-300 SUPPLY PUMP	20 A	3					2.2	2.2	--	--	--	--	48
49	--	--	--	--	2.2	0.36					1	20 A	PS-300 PROTEIN SKIMMER		50
51	--	--	--	--			2.2	0.62			1	20 A	UV-300 UV STERILIZER		52
53		P-302 PROTEIN SKIMMER	20 A	3					2.2	2.58	3	30 A	HP-100 HEAT PUMP		54
55	--	--	--	--	2.2	2.58					--	--	--	--	56
57	--	--	--	--			2.2	2.58			--	--	--	--	58
59		HP-400 HEAT PUMP	20 A	3					2.58	1.5	2	25 A	HP-300 HEAT PUMP		60
61	--	--	--	--	2.58	1.5					--	--	--	--	62
63	--	--	--	--			2.58	0			1	20 A	SPARE	--	64
65		SPARE	20 A	1					0	0	1	20 A	SPARE	--	66
67		A3	100 A	3	7.65	0					3	30 A	SPD	--	68
69	--	--	--	--			9.78	0			--	--	--	--	70
71	--	--	--	--					8.34	0	--	--	--	--	72
					Total Load:		25.41 kVA		26.52 kVA		26.46 kVA				
					Total Amps:		212 A		222 A		222 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	16.16 kVA	100.00%	16.16 kVA	
Heating	5.2 kVA	100.00%	5.2 kVA	Total Conn. Load: 78.38 kVA
Motor	56.45 kVA	103.43%	58.39 kVA	Total Est. Demand: 80.32 kVA
Receptacle	0.54 kVA	100.00%	0.54 kVA	Total Conn.: 218 A
Lighting	0.03 kVA	125.00%	0.04 kVA	Total Est. Demand: 223 A

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: A1

LOCATION: ELEC 04
SUPPLY FROM: MSB2
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 400 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		RACK TWIST LOCK	30 A	1	2.4	0					3	30 A	SPD		2
3		RACK QUAD	20 A	1			1.5	0			--	--	--	--	4
5		RACK TWIST LOCK	30 A	1					2.4	0	--	--	--	--	6
7		P-100 SAND FILTER (3-HP)	20 A	3	1.32	1.32					3	20 A	P-400 SAND FILTER (3-HP)		8
9	--	--	--	--			1.32	1.32			--	--	--	--	10
11	--	--	--	--					1.32	1.32	--	--	--	--	12
13		P-101 SAND FILTER (3-HP)	20 A	3	1.32	1.32					3	20 A	P-401 SAND FILTER (3-HP)		14
15	--	--	--	--			1.32	1.32			--	--	--	--	16
17	--	--	--	--					1.32	1.32	--	--	--	--	18
19		P-102 SAND FILTER (3-HP)	20 A	3	1.32	1.32					3	20 A	P-402 SAND FILTER (3-HP)		20
21	--	--	--	--			1.32	1.32			--	--	--	--	22
23	--	--	--	--					1.32	1.32	--	--	--	--	24
25		P-103 SAND FILTER (3-HP)	20 A	3	1.32	1.32					3	20 A	P-403 SAND FILTER (3-HP)		26
27	--	--	--	--			1.32	1.32			--	--	--	--	28
29	--	--	--	--					1.32	1.32	--	--	--	--	30
31		P-104 PROTEIN SKIMMER (3-HP)	20 A	3	1.32	1.32					3	20 A	P-404 PROTEIN SKIMMER (3-HP)		32
33	--	--	--	--			1.32	1.32			--	--	--	--	34
35	--	--	--	--					1.32	1.32	--	--	--	--	36
37		P-105 PROTEIN SKIMMER (3-HP)	20 A	3	1.32	1.32					3	20 A	P-405 PROTEIN SKIMMER (3-HP)		38
39	--	--	--	--			1.32	1.32			--	--	--	--	40
41	--	--	--	--					1.32	1.32	--	--	--	--	42
43		RECIRC PUMP P-800 (3-HP)	30 A	3	1.32	1.32					3	20 A	RECIRC PUMP P-801 (3-HP)		44
45	--	--	--	--			1.32	1.32			--	--	--	--	46
47	--	--	--	--					1.32	1.32	--	--	--	--	48
49		PS-100 PROTEIN SKIMMER	20 A	2	0.63	0.63					2	20 A	PS-400 PROTEIN SKIMMER		50
51	--	--	--	--			0.63	0.63			--	--	--	--	52
53		PS-101 PROTEIN SKIMMER	20 A	2					0.63	0.63	2	20 A	PS-401 PROTEIN SKIMMER		54
55	--	--	--	--	0.63	0.63					--	--	--	--	56
57		RT-100/101 TIMER	20 A	1			0.36	0.36			1	20 A	RT-400/401 TIMER		58
59		PS-800 PROTEIN SKIMMER	15 A	2					0.48	1.67	2	20 A	P-700A SUPPLY PUMP		60
61	--	--	--	--	0.48	1.67					--	--	--	--	62
63		RT-800 TIMER	20 A	1			0.18	0.12			1	20 A	P-701A PROTEIN SKIMMER PUMP		64
65		OZ1400 OZONE CABINET	20 A	2					1.35	0.48	1	20 A	PS-700A PROTEIN SKIMMER		66
67	--	--	--	--	1.35	0.36					1	20 A	UV-700A UV STERILIZER		68
69		OZ1405/6 OZONE...	20 A	1			1.02	1.67			2	30 A	P-700B SUPPLY PUMP		70
71		HX-700A CHILLER	20 A	1					1.56	1.67	--	--	--	--	72
73		HX-700B CHILLER	20 A	1	1.56	0.12					1	20 A	P-701B PROTEIN SKIMMER PUMP		74
75		BL-1200 REGEN BLOWER	20 A	2			1.67	0.48			1	20 A	PS-700B PROTEIN SKIMMER		76
77	--	--	--	--					1.67	0.36	1	20 A	UV-700B UV STERILIZER		78
79		RACK QUAD	20 A	1	1.5	0					1	20 A	SPARE	--	80
81	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	82
83	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	84
					Total Load:		30.41 kVA		27.08 kVA		31.35 kVA				
					Total Amps:		258 A		228 A		266 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	16.56 kVA	100.00%	16.56 kVA	
Motor	72.1 kVA	101.37%	73.09 kVA	Total Conn. Load: 88.84 kVA
Receptacle	0.18 kVA	100.00%	0.18 kVA	Total Est. Demand: 89.83 kVA
				Total Conn.: 247 A
				Total Est. Demand: 249 A

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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

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JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E702

PLOTTED: 12/12/2025 11:47:25 AM

12/12/2025 11:47:25 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

Branch Panel: P3

LOCATION: ELEC 04
SUPPLY FROM: MSB1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A	B	C	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		MULTI PURP RECEPT.	20 A	1	0.72	0		3	30 A	SPD	–	2
3		MULTI PURP RECEPT.	20 A	1		0.54	0	–	–	–	–	4
5		MULTI PURP RECEPT.	20 A	1			0.72	0	–	–	–	–	6
7		MULTI PURP RECEPT.	20 A	1	0.54	2.4		1	30 A	IWH-3 (MULTI-PURPOSE)		8
9		MULTI PURP RECEPT.	20 A	1		1.5	0.72	1	20 A	MULTI PURP FLR BOX		10
11		MULTI PURP RECEPT.	20 A	1			1.5	0.72	1	20 A	MULTI PURP FLR BOX		12
13		EXTERIOR RECEPT.	20 A	1	0.54	1.7		3	100 A	P4		14
15		EXTERIOR RECEPT.	20 A	1		0.9	2.69	–	–	–	–	16
17		MP STORAGE REC.	20 A	1			0.54	1.08	–	–	–	18
19	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	20
21	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	22
23	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	24
25	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	26
27	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	28
29	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	30
31	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	32
33	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	34
35	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	36
37	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	38
39	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	40
41	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	42
					Total Load:	5.9 kVA	6.35 kVA	4.54 kVA					
					Total Amps:	51 A	55 A	38 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	7.1 kVA	100.00%	7.1 kVA		
Receptacle	9.69 kVA	100.00%	9.69 kVA	**Total Conn. Load:**	16.79 kVA
				Total Est. Demand:	16.79 kVA
				Total Conn.:	47 A
				Total Est. Demand:	47 A

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Branch Panel: P1

LOCATION: ELEC 04
SUPPLY FROM: MSB1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A	B	C	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		P2	100 A	3	4.15	0		3	30 A	SPD	–	2
3	–	–	–	–		6.19	0	–	–	–	–	4
5	–	–	–	–			4.5	0	–	–	–	6
7		BP-1 (3HP)	20 A	3	1.32	2.4		1	30 A	IWH-3 (BOH-1)		8
9	–	–	–	–		1.32	1.5	1	20 A	COUNTERTOP QUAD		10
11	–	–	–	–			1.32	1.5	1	20 A	COUNTER TOP QUAD		12
13		FRIDGE/FREEZER	20 A	1	0.8	0.72		1	20 A	REC. BOH-1		14
15		FRIDGE/FREEZER	20 A	1		0.8	0.72	1	20 A	OFFICE 01		16
17		REC. BOH-1	20 A	1			0.9	0.72	1	20 A	OFFICE 01		18
19		EQ. MEZZANINE REC.	20 A	1	0.9	4.5		1	20 A	BOH-1 REC.		20
21		EQ. MEZZANINE REC.	20 A	1		0.72	0.72	1	20 A	BOH-1 REC.		22
23		BOH-1 REC.	20 A	1			4.5	1.08	1	20 A	BOH-1 REC.		24
25		ROOF RECEPTACLES	20 A	1	0.36	0.2		1	20 A	MANGROVE LIGHTING		26
27		MANGROVE LIGHTING	20 A	1		0.9	0.5	1	20 A	TERRARIUM LIGHTING		28
29		CORAL REEF LIGHTING	20 A	1			0.9	0.9	1	20 A	PREDATOR LIGHTING		30
31		CORAL REEF LIGHTING	20 A	1	0.9	0.5		1	20 A	LIONFISH LIGHTING		32
33		CORAL REEF LIGHTING	20 A	1		0.9	0.5	1	20 A	ADAPTATION LIGHTING		34
35		LOBSTER LIGHTING	20 A	1			0.5	0.5	1	20 A	LIVE CORAL LIGHTING		36
37	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	38
39	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	40
41	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	42
					Total Load:	16.75 kVA	14.77 kVA	17.32 kVA					
					Total Amps:	142 A	123 A	147 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	13.66 kVA	100.00%	13.66 kVA		
Motor	6.26 kVA	115.81%	7.25 kVA	**Total Conn. Load:**	48.84 kVA
Receptacle	21.72 kVA	73.02%	15.86 kVA	**Total Est. Demand:**	45.77 kVA
Lighting	7.2 kVA	125.00%	9 kVA	**Total Conn.:**	135 A
				Total Est. Demand:	127 A

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Branch Panel: P4

LOCATION: ELEC 04
SUPPLY FROM: P3
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 100 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A	B	C	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		EXBT ID-1/2/4/6	20 A	1	0.36	0.13		1	20 A	EXBT ID-13/15/20		2
3		EXBT ID-3/5/7/8	20 A	1		1	0.63	1	20 A	EXBT ID-14/37/38		4
5		EXBT ID-9/10/11/12	20 A	1			0.24	0.56	1	20 A	EXBT ID-16/17/18/19		6
7		EXBT ID-21/22/23	20 A	1	0.55	0.66		1	20 A	EXBT ID-30/31/32/33		8
9		EXBT ID-24/26	20 A	1		0.34	0.72	1	20 A	CONV. REC.		10
11		EXBT ID-25/27/29	20 A	1			0.26	0	1	20 A	SPARE	–	12
13	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	14
15	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	16
17	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	18
19	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	20
21	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	22
23	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	24
25	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	26
27	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	28
29	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	30
					Total Load:	1.7 kVA	2.69 kVA	1.06 kVA					
					Total Amps:	15 A	23 A	9 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4.7 kVA	100.00%	4.7 kVA		
Receptacle	0.75 kVA	100.00%	0.75 kVA	**Total Conn. Load:**	5.45 kVA
				Total Est. Demand:	5.45 kVA
				Total Conn.:	15 A
				Total Est. Demand:	15 A

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Branch Panel: P2

LOCATION: ELEC 04
SUPPLY FROM: P1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 100 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A	B	C	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		ACCU-02	30 A	2	1.15	0		3	30 A	SPD	–	2
3	–	–	–	–		1.15	0	–	–	–	–	4
5		RACK QUAD	20 A	1			1.5	0	–	–	–	6
7		IT QUAD	20 A	1	0.72	0.36		1	20 A	BOH REC		8
9		IT QUAD	20 A	1		0.72	2.4	1	30 A	RACK TWIST LOCK		10
11		EXBT AV RACK	20 A	1			1.92	1.08	1	20 A	IT QUAD		12
13	–	SPARE	20 A	1	0	1.92		1	20 A	EXBT AV RACK		14
15	–	SPARE	20 A	1		0	1.92	1	20 A	EXBT AV RACK		16
17	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	18
19	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	20
21	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	22
23	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	24
25	–	SPARE	20 A	1	0	0		1	20 A	SPARE	–	26
27	–	SPARE	20 A	1		0	0	1	20 A	SPARE	–	28
29	–	SPARE	20 A	1			0	0	1	20 A	SPARE	–	30
					Total Load:	4.15 kVA	6.19 kVA	4.5 kVA				
					Total Amps:	35 A	52 A	38 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	9.66 kVA	100.00%	9.66 kVA		
Motor	2.3 kVA	125.00%	2.88 kVA	**Total Conn. Load:**	14.84 kVA
Receptacle	2.88 kVA	100.00%	2.88 kVA	**Total Est. Demand:**	15.42 kVA
				Total Conn.:	41 A
				Total Est. Demand:	43 A

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CURTIS + HODGES ARCHITECTS
CGI ASSOCIATES, INC

SYMBOL | REVISION | DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21088

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West Palm Beach, FL 33409
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DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

LICENSE No. 68143 STATE OF FLORIDA PROFESSIONAL ENGINEER WILLIAM MARK BUCHANAN

BUCHANAN WEIGEL HARDMAN, P.E.
2 HARVARD CIRCLE, SUITE 100
WEST PALM BEACH, FLORIDA
FL. REG. NO. P05143

JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E703

PLOTTED: 12/12/2025 11:47:36 AM

12/12/2025 11:47:36 AM
Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_P24.rvt

Branch Panel: P6

LOCATION: SHOP STORAGE 17
SUPPLY FROM: MSB1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		P7	100 A	3	4.63	0					3	30 A	SPD	--	2
3	--	--	--	--			3.37	0			--	--	--	--	4
5	--	--	--	--					4.62	0	--	--	--	--	6
7		ROLL-UP DOOR	20 A	1	0.36	0.72					1	20 A	CONCESSIONS FLR BOX		8
9		INTERIOR KIOSK	20 A	1			0.54	0.72			1	20 A	CONCESSIONS FLR BOX		10
11		EXTERIOR KIOSK	20 A	1					0.36	0.72	1	20 A	CONCESSIONS FLR BOX		12
13		CONCESSIONS FLR BOX	20 A	1	0.72	0.72					1	20 A	POS REC.		14
15		POS REC.	20 A	1			0.72	0.54			1	20 A	COUNTER TOP CONV. OUTLETS		16
17		POS REC.	20 A	1					0.72	0.72	1	20 A	CONCESSIONS STORAGE		18
19		CONCESSIONS COUNTING	20 A	1	0.72	1.5					1	20 A	CONCESSION TRACK LTG		20
21		CONCESSIONS COV REC.	20 A	1			0.54	1.5			1	20 A	CONCESSION TRACK LTG		22
23		CONCESSION TRACK LTG	20 A	1					1.5	1.5	1	20 A	CONCESSION TRACK LTG		24
25		CONCESSION TRACK LTG	20 A	1	1.5	0					1	20 A	SPARE	--	26
27		SHOP LTG	20 A	1			0.48	0			1	20 A	SPARE	--	28
29	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	30
31	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	32
33	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	34
35	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	38
39	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	40
41	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	42
				Total Load:	10.87 kVA		8.41 kVA		10.14 kVA						
				Total Amps:	93 A		70 A		87 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	7.8 kVA	100.00%	7.8 kVA		
Motor	2.66 kVA	121.82%	3.24 kVA	Total Conn. Load:	29.42 kVA
Receptacle	10.98 kVA	95.54%	10.49 kVA	Total Est. Demand:	31.5 kVA
Lighting	7.98 kVA	125.00%	9.98 kVA	Total Conn.:	82 A
				Total Est. Demand:	87 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P7

LOCATION: SHOP STORAGE 17
SUPPLY FROM: P6
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10kA
MAINS TYPE: MLO
MAINS RATING: 100 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		ACCU-01	30 A	2	1.15	0					--	--	--	--	2
3	--	--	--	--			1.15	0			--	--	--	--	4
5		RACK TWIST LOCK	20 A	1					2.4	0	--	--	--	--	6
7		RACK TWIST LOCK	20 A	1	2.4	1.08					1	20 A	IT QUAD		8
9		RACK QUAD	20 A	1			1.5	0.72			1	20 A	IT QUAD		10
11		RACK QUAD	20 A	1					1.5	0.72	1	20 A	IT QUAD		12
13	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	14
15	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	16
17	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	18
19	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	20
21	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	22
23	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	24
25	--	SPACE	--	1	--	--					1	--	SPACE	--	26
27	--	SPACE	--	1			--	--			1	--	SPACE	--	28
29	--	SPACE	--	1					--	--	1	--	SPACE	--	30
				Total Load:	4.63 kVA		3.37 kVA		4.62 kVA						
				Total Amps:	40 A		28 A		40 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	7.8 kVA	100.00%	7.8 kVA		
Motor	2.3 kVA	125.00%	2.88 kVA	Total Conn. Load:	12.62 kVA
Receptacle	2.52 kVA	100.00%	2.52 kVA	Total Est. Demand:	13.2 kVA
				Total Conn.:	35 A
				Total Est. Demand:	37 A

NOTE LEGEND:

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Branch Panel: P5

LOCATION: GEN STORAGE 15
SUPPLY FROM: MSB1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		RR RECPT.	20 A	1	2.04	0					3	30 A	SPD	--	2
3		CORRIDOR RECEPT.	20 A	1			0.54	0			--	--	--	--	4
5	(G)	EWC-1	20 A	1					0.36	0	--	--	--	--	6
7		EXTERIOR RECEPT.	20 A	1	0.36	0					1	20 A	SPARE	--	8
9		EXTERIOR RECEPT.	20 A	1			0.54	0			1	20 A	SPARE	--	10
11		FOOD TRUCK RECPEPT.	50 A	2					3.5	0	1	20 A	SPARE	--	12
13	--	--	--	--	3.5	0					1	20 A	SPARE	--	14
15	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	16
17	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	18
19	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	20
21	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	22
23	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	24
25	--	SPACE	--	1	--	--					1	--	SPACE	--	26
27	--	SPACE	--	1			--	--			1	--	SPACE	--	28
29	--	SPACE	--	1					--	--	1	--	SPACE	--	30
				Total Load:	5.9 kVA		1.08 kVA		3.86 kVA						
				Total Amps:	53 A		9 A		36 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	10.84 kVA	96.13%	10.42 kVA		
				Total Conn. Load:	10.84 kVA
				Total Est. Demand:	10.42 kVA
				Total Conn.:	30 A
				Total Est. Demand:	29 A

NOTE LEGEND:

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- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

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SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21096

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

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JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E704

PLOTTED: 12/12/2025 11:47:46 AM

12/12/2025 11:47:46 AM
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Branch Panel: L1

LOCATION: ELEC 04 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: MSB2 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 100 A
ENCLOSURE: TYPE 1

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		LIGHTING MULTIPURPOSE	20 A	1	1.35	0					3	30 A	SPD	--	2
3		LIGHTING BOH	20 A	1			1.17	0			--	--	--	--	4
5		LIGHTING FOH & CONCESSIONS	20 A	1					0.82	0	--	--	--	--	6
7		LIGHTING EXT CANOPY	20 A	1	0.84	0.9					1	20 A	SITE LIGHTING		8
9		MEZZANINE LTG	20 A	1			0.99	0.9			1	20 A	SITE LIGHTING		10
11		CONCESSION HOUSE LTG	20 A	1					0.24	1.44	1	20 A	SITE LIGHTING		12
13		SITE LIGHTING	20 A	1	1.26	0.5					1	20 A	SITE BOLLARDS		14
15		SITE LIGHTING	20 A	1			1.08	0.42			1	20 A	SITE BOLLARDS		16
17		SITE LIGHTING	20 A	1					1.08	0.24	1	20 A	SITE BOLLARDS		18
19		HAND RAIL LTG	20 A	1	0.25	0.5					1	20 A	FACP	(R)(L)	20
21		LOBBY LIGHTING	20 A	1			1.5	0			1	20 A	SPARE	--	22
23		LOBBY LIGHTING INVERTER	20 A	1					0.5	0	1	20 A	SPARE	--	24
25	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	26
27	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	28
29	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	30
				Total Load:	5.6 kVA		6.06 kVA		4.32 kVA						
				Total Amps:	48 A		52 A		36 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	0.5 kVA	100.00%	0.5 kVA		
Lighting	15.48 kVA	125.00%	19.35 kVA	Total Conn. Load:	15.98 kVA
				Total Est. Demand:	19.85 kVA
				Total Conn.:	44 A
				Total Est. Demand:	55 A

NOTE LEGEND:

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Branch Panel: M1

LOCATION: ELEC 04 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: MSB2 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 400 A
ENCLOSURE: TYPE 1

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		DCU-01	25 A	3	2.02	0					3	30 A	SPD	--	2
3	--	--	--	--			2.02	0			--	--	--	--	4
5	--	--	--	--					2.02	0	--	--	--	--	6
7		VAV-1-03	60 A	3	5	2.33					3	25 A	VAV-1-04		8
9	--	--	--	--			5	2.33			--	--	--	--	10
11	--	--	--	--					5	2.33	--	--	--	--	12
13		EWH-2	25 A	3	2	5					3	60 A	VAV-1-05		14
15	--	--	--	--			2	5			--	--	--	--	16
17	--	--	--	--					2	5	--	--	--	--	18
19		VAV-1-07	25 A	3	2.33	0.04					1	20 A	VAV-1-01/2/6/8/9		20
21	--	--	--	--			2.33	0			1	20 A	SPARE	--	22
23	--	--	--	--					2.33	0	1	20 A	SPARE	--	24
25		AHU-01	80 A	3	5.76	0					1	20 A	SPARE	--	26
27	--	--	--	--			5.76	0			1	20 A	SPARE	--	28
29	--	--	--	--					5.76	0	1	20 A	SPARE	--	30
31	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	32
33	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	34
35	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	38
39	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	40
41	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	42
				Total Load:	24.48 kVA		24.44 kVA		24.44 kVA						
				Total Amps:	204 A		204 A		204 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6 kVA	100.00%	6 kVA		
Heating	44.04 kVA	100.00%	44.04 kVA	Total Conn. Load:	73.37 kVA
Motor	23.33 kVA	118.52%	27.65 kVA	Total Est. Demand:	77.88 kVA
				Total Conn.:	204 A
				Total Est. Demand:	216 A

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Branch Panel: M2

LOCATION: | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: MSB2 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 | **MCB RATING:** 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	A		B		C		P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		AHU-02	70 A	3	4.2	0					3	30 A	SPD	--	2
3	--	--	--	--			4.2	0			--	--	--	--	4
5	--	--	--	--					4.2	0	--	--	--	--	6
7		VAV-2-02	20 A	3	1.5	2.33					3	25 A	VAV-2-01		8
9	--	--	--	--			1.5	2.33			--	--	--	--	10
11	--	--	--	--					1.5	2.33	--	--	--	--	12
13		VAV-2-04/5/8	20 A	1	0.04	5					3	60 A	VAV-2-03		14
15							5				--	--	--	--	16
17									5		--	--	--	--	18
19		VAV-2-06	25 A	3	2.33	0.83					3	15 A	VAV-2-07		20
21	--	--	--	--			2.33	0.83			--	--	--	--	22
23	--	--	--	--					2.33	0.83	--	--	--	--	24
25		EWH-1	35 A	3	3.33	0					1	20 A	SPARE	--	26
27	--	--	--	--			3.33	0			1	20 A	SPARE	--	28
29	--	--	--	--					3.33	0	1	20 A	SPARE	--	30
31		REC/LTG	20 A	1	0.24	0					1	20 A	SPARE	--	32
33	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	34
35	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	0	0					1	20 A	SPARE	--	38
39	--	SPARE	20 A	1			0	0			1	20 A	SPARE	--	40
41	--	SPARE	20 A	1					0	0	1	20 A	SPARE	--	42
				Total Load:	19.81 kVA		19.53 kVA		19.53 kVA						
				Total Amps:	165 A		163 A		163 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	10 kVA	100.00%	10 kVA		
Heating	35.04 kVA	100.00%	35.04 kVA	Total Conn. Load:	58.88 kVA
Motor	12.6 kVA	125.00%	15.75 kVA	Total Est. Demand:	62.05 kVA
Receptacle	0.18 kVA	100.00%	0.18 kVA	Total Conn.:	163 A
Lighting	0.06 kVA	125.00%	0.08 kVA	Total Est. Demand:	172 A

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ISSUE DATE: 08.29.2025
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STATE PROJECT No.: 21086

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

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SUSHAMA WEERAKKODY, P.E.
LICENSE NUMBER 63143
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WEST PALM BEACH, FL 33409
561.687.2220

JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E705

PLOTTED: 12/12/2025 11:47:56 AM

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Autodesk Docs://23016 - FDEP Pennekamp/FDEP Pennekamp_MEP_R24.rvt

LIFE SUPPORT EQUIPMENT CONNECTION SCHEDULE

MARK	EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			RECEPTACLE	CONDUCTORS	RACEWAY	NOTES
					SIZE	FUSE	ENCL.				
1	P-100 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
2	P-101 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
3	P-102 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
4	P-103 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
5	P-104 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
6	P-105 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
7	P-400 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
8	P-401(3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
9	P-402 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
10	P-403 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
11	P-404 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
12	P-405 (3 HP)	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
13	PS-100	EQUIPMENT MEZZANINE	208/1	20A/2P	30A	-	4X	-	(2) #12 AWG, (1) #12 GND	3/4"	(2)
14	PS-101	EQUIPMENT MEZZANINE	208/1	20A/2P	30A	-	4X	-	(2) #12 AWG, (1) #12 GND	3/4"	(2)
15	RT-100	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
16	RT-101	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
17	PS-400	EQUIPMENT MEZZANINE	208/1	20A/2P	30A	-	4X	-	(2) #12 AWG, (1) #12 GND	3/4"	(2)
18	PS-401	EQUIPMENT MEZZANINE	208/1	20A/2P	30A	-	4X	-	(2) #12 AWG, (1) #12 GND	3/4"	(2)
19	RT-400	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
20	RT-401	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
21	P-800	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
22	P-801	BOH 1A	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
23	PS-800	EQUIPMENT MEZZANINE	208/1	15A/2P	-	-	-	6-15R	(2) #12 AWG, (1) #12 GND	3/4"	-
24	RT-800	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
25	P-700A	EQUIPMENT MEZZANINE	208/1	30A/2P	-	-	-	6-30R	(2) #10 AWG, (1) #10 GND	3/4"	-
26	P-701A	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
27	PS-700A	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
28	UV-700A	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
29	P-700B	EQUIPMENT MEZZANINE	208/1	30A/2P	-	-	-	6-30R	(2) #10 AWG, (1) #10 GND	3/4"	-
30	P-701B	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
31	PS-700B	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
32	UV-700B	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
33	P-200A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
34	P-201A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
35	P-202A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
36	P-203A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
37	P-204A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
38	HX-200A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
39	HT-200A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
40	HT-201A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
41	PS-200A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
42	UV-200A	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
43	P-200B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
44	P-201B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
45	P-202B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
46	P-203B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
47	P-204B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
48	HX-200B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
49	HT-200B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
50	HT-201B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
51	PS-200B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
52	UV-200B	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
53	P-200C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
54	P-201C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
55	P-202C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
56	P-203C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
57	P-204C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
58	HX-200C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
59	HT-200C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
60	HT-201C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
61	PS-200C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
62	UV-200C	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
63	P-200D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
64	P-201D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
65	P-202D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-

NOTES:
1. VFD WITH INTEGRAL DISCONNECT SWITCH PROVIDED BY LIFE SUPPORT CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR FOR ALL 3-PHASE MOTORS/PUMPS.
2. EC TO PROVIDE DISCONNECT SWITCHES FOR ALL SINGLE PHASE MOTORS/PUMPS.
3. EC TO PROVIDE DISCONNECT SWITCH FOR SPLIT SYSTEM HEAT PUMP. INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE ADDITIONAL STRANDED WIRING PER MANUFACTURERS RECOMMENDATION.

LIFE SUPPORT EQUIPMENT CONNECTION SCHEDULE

MARK	EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			RECEPTACLE	CONDUCTORS	RACEWAY	NOTES
					SIZE	FUSE	ENCL.				
66	P-203D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
67	P-204D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
68	HX-200D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
69	HT-200D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
70	HT-201D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
71	PS-200D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
72	UV-200D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
73	P-205D	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
74	P-900	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
75	P-1100	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
76	RO-1100	BOH 2	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
77	P-300	BOH 1	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
78	P-301	BOH 1	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
79	P-302	BOH 1	208/3	20A/3P	30A	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
80	PS-300	EQUIPMENT MEZZANINE	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
81	RT-300	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
82	UV-300	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
83	P-500A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
84	HX-500A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
85	HT-500A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
86	HT-501A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
87	PS-500A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
88	UV-500A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
89	CP-500A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
90	CP-501A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
91	P-500B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
92	HX-500B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
93	HT-500B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
94	HT-501B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
95	PS-500B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
96	UV-500B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
97	CP-500B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
98	CP-501B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
99	P-500C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
100	HX-500C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
101	HT-500C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
102	HT-501C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
103	PS-500C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
104	UV-500C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
105	CP-500C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
106	CP-501C	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
107	P-500D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
108	HX-500D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
109	HT-500D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
110	HT-501D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
111	PS-500D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
112	UV-500D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
113	CP-500D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
114	CP-501D	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
115	P-600	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
116	HX-600	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
117	HT-600	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
118	HT-601	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
119	PS-600	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
120	UV-600	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
121	CP-600	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
122	CP-601	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
123	HX-700A	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
124	HX-700B	BOH 1	120/1	20A/1P	-	-	-	5-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
125	BL-1200	BOH 1	208/1	20A/2P	-	-	-	6-20R	(2) #12 AWG, (1) #12 GND	3/4"	-
126	HP-100	EXTERIOR ROOF	208/3	30A/3P	30A	-	4X	-	(3) #10 AWG, (1) #10 GND	3/4"	(3)
127	HP-300	EXTERIOR ROOF	208/1	25A/2P	30A	-	4X	-	(2) #10 AWG, (1) #10 GND	3/4"	(3)
128	HP-400	EXTERIOR ROOF	208/3	30A/2P	30A	-	4X	-	(3) #10 AWG, (1) #10 GND	3/4"	(3)

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GW K2M GWWO roto Kimley»Horn
CURTIS + DODDS ARCHITECTS

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

DESIGNER: CJC
DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

CDCI ASSOCIATES
2 Harvard Circle, Suite 100, West Palm Beach, FL 33409 (561) 478-8900 www.cdciassociates.com
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M. JEROME WOMACK LICENSE NO. 89145 STATE OF FLORIDA PROFESSIONAL ENGINEER
BUCKMAN-DODDS, INC. 2-4 2-4 MAHAN DRIVE, SUITE 100 TALLAHASSEE, FL 32308 FL. REG. NO. 7928143

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JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			CONDUCTORS	RACEWAY	NOTES
				SIZE	FUSE	ENCL.			
AHU-01	MECHANICAL ROOM A	208/3	80A/3P	100A	-	1	(3) #4 AWG, (1) #8 GND	1-1/4"	-
AHU-02	MECHANICAL ROOM B	208/3	70A/3P	100A	-	1	(3) #4 AWG, (1) #8 GND	1-1/4"	-
DEH-01	MECHANICAL ROOM A	208/3	300A/3P	400A	-	1	(3) #350 KCMIL, (1) #4 GND	3-1/2"	-
CU-01	EXTERIOR/ROOF	208/3	200A/3P	200A	200A	4X	(3) #3/0 AWG, (1) #6 GND	2-1/2"	-
CU-02	EXTERIOR/ROOF	208/3	150A/3P	200A	150A	4X	(3) #1/0 AWG, (1) #6 GND	2"	-
DCU-01	EXTERIOR/ROOF	208/3	25A/3P	30A	25A	4X	(3) #10 AWG, (1) #10 GND	1"	-
VAV-1-01	EQUIPMENT	-	-	-	-	-	-	-	(1)
VAV-1-02	MECHANICAL ROOM A	-	-	-	-	-	-	-	(1)
VAV-1-03	EQUIPMENT M3	208/3	60A/3P	60A	-	1	(3) #6 AWG, (1) #10 GND	1"	-
VAV-1-04	MULTI-PURPOSE 08	208/3	25A/3P	30A	-	1	(3) #10 AWG, (1) #10 GND	1"	-
VAV-1-05	MULTI-PURPOSE 08	208/3	60A/3P	60A	-	1	(3) #6 AWG, (1) #10 GND		-
VAV-1-06	BOH 2	-	-	-	-	-	-	-	
VAV-1-07	MULTI-PURPOSE 08	208/3	25A/3P	60A	-	1	(3) #6 AWG, (1) #10 GND	1"	-
VAV-1-08	MP STORAGE 06	-	-	-	-	-	-	-	(1)
VAV-1-09	MP STORAGE 06	-	-	-	-	-	-	-	(1)
VAV-2-01	CONCESSIONS 16	208/3	25A/3P	30A	-	1	(3) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-02	WOMEN 11	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-03	SHOP STORAGE 17	208/3	60A/3P	60A	-	1	(3) #6 AWG, (1) #10 GND	1"	-
VAV-2-04	GEN STORAGE 15	-	-	-	-	-	-	-	(1)
VAV-2-05	SHOP STORAGE 17	-	-	-	-	-	-	-	(1)
VAV-2-06	SHOP STORAGE 17	208/3	25A/3P	30A	-	1	(3) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-07	SHOP STORAGE 17	208/3	15A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-08	MECHANICAL ROOM B	-	-	-	-	-	-	-	(1)
BP-1	BOH-1	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
EWH-1	JANITOR CLOSET	208/3	35A/3P	60A	-	1	(3) #8 AWG, (1) #10 GND	1"	-
EWH-2	EQ. MEZZANINE	208/3	25A/3P	30A	-	1	(3) #10 AWG, (1) #10 GND	3/4"	-
IWH-3	MULTI PURPOSE	120/1	30A/1P	30A	-	1	(2) #10 AWG, (1) #10 GND	3/4"	-
ACCU-01	EXTERIOR ROOF	208/1	30A/2P	30A	-	4X	(2) #10 AWG, (1) #10 GND	3/4"	-
ACCU-02	EXTERIOR ROOF	208/1	30A/2P	30A	-	4X	(2) #10 AWG, (1) #10 GND	3/4"	-

NOTES: 1. COOLING ONLY VAV. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO VAV RELEASE.

LIGHTING CONTROL PANEL 'LCP' SCHEDULE

PANEL-RELAY#	BRANCH CKT#	AREA	CONTROL	TYPE	DIMMING
LCP#1	L1#12	EXTERIOR SITE POLE LIGHTING	TIMECLOCK/PHOTOCELL	S1/S2/S3	0-10V
LCP#2	L1#8	EXTERIOR SITE POLE LIGHTING	TIMECLOCK/PHOTOCELL	S1/S2	0-10V
LCP#3	L1#17	EXTERIOR SITE POLE LIGHTING	TIMECLOCK/PHOTOCELL	S1/S2	0-10V
LCP#4	L1#15	EXTERIOR SITE POLE LIGHTING	TIMECLOCK/PHOTOCELL	S1	0-10V
LCP#5	L1#13	EXTERIOR SITE POLE LIGHTING	TIMECLOCK/PHOTOCELL	S1/S2/S3	0-10V
LCP#6	L1#10	EXTERIOR SITE POLE LIGHTING	TIMECLOCK/PHOTOCELL	S2/S3	0-10V
LCP#7	L1#18	EXTERIOR BOLLARD LIGHTING	TIMECLOCK/PHOTOCELL	SB	0-10V
LCP#8	L1#16	EXTERIOR BOLLARD LIGHTING	TIMECLOCK/PHOTOCELL	S1/SB	0-10V
LCP#9	L1#14	EXTERIOR BOLLARD LIGHTING	TIMECLOCK/PHOTOCELL	SB	0-10V
LCP#10	L1#7	DECK SOFFIT LIGHTING	TIMECLOCK/PHOTOCELL	D/DE	DALI
LCP#11	L1#21	LOBBY LIGHTING	TIMECLOCK/KEYPAD	-	0-10V
LCP#12	L1#23	LOBBY LIGHTING INVERTER	TIMECLOCK/KEYPAD	-	0-10V
LCP#13	L1#5	EXHIBITS LIGHTING	OS/KEYPAD	A, AE	0-10V
LCP#14	L1#1	MULTI-PURPOSE 08	OS/KEYPAD	A1, A1E	0-10V
LCP#15					
LCP#16					
LCP#17					
LCP#18					
LCP#19					
LCP#20					
LCP#21					
LCP#22					
LCP#23					
LCP#24					

NOTES:
1. LIGHTING CONTROL PANEL SHALL BE CAPABLE OF CONTROLLING BOTH INTERIOR AND EXTERIOR LUMINARIES.

LIFE SUPPORT EQUIPMENT CONNECTION SCHEDULE

MARK	EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			RECEPTACLE	CONDUCTORS	RACEWAY	NOTES
					SIZE	FUSE	ENCL.				
SWMK	SWMK-PR-1	BOH 1	208/3	15A/3P	30	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(1)
SWMK	SWMK-PI-1	BOH 1	208/3	15A/3P	30	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(2)
SWMK	SWMK-PI-2	BOH 1	208/3	15A/3P	30	-	4X	-	(3) #12 AWG, (1) #12 GND	3/4"	(2)
SWMK	SWMK-PI-1	PUMP HOUSE (EXTERIOR)	208/3	20A/3P	30	-	4X	-	(3) #6 AWG, (1) #6 GND	1"	(1)
SWMK	SWMK-PI-2	PUMP HOUSE (EXTERIOR)	208/3	20A/3P	30	-	4X	-	(3) #6 AWG, (1) #6 GND	1"	(1)

NOTES:
NOTES:
1. VFD WITH INTEGRAL DISCONNECT SWITCH PROVIDED BY LIFE SUPPORT CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR FOR ALL 3-PHASE MOTORS/PUMPS.
2. PROVIDE DISCONNECT SWITCHES INSIDE MAIN BUILDING FOR REMOTE SHUT-OFF OF SALTWATER INTAKE SYSTEM.

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CORA | DOSSA ARCHITECTS

SYMBOL	REVISION	DATE

ISSUE DATE: 08.29.2025
COMP. FILE No.: 0000000
STATE PROJECT No.: 21086

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (805)245-2157

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DRAWN BY: CJC
REVIEWED BY: SW
Consultant:

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JOHN PENNEKAMP

Sheet Title: SCHEDULES - ELECTRICAL

Project Title: NEW INTERPRETIVE CENTER JOHN PENNEKAMP CORAL REEF STATE PARK

Sheet Number: E707

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