DISTRICT 2 DISTRICT 1 Project Location

DISTRICT 4

ICHETUCKNEE SPRINGS STATE PARK

DISTRICT 2 COLUMBIA COUNTY

REPLACE RESTROOM FDEP PROJECT # 61363C

SITE ADDRESS: 12087 SOUTHWEST U.S. 27 FORT WHITE, FL 32038

APPLICABLE CODES AND DESIGN DATA

OCCUPANCY CLASS: FBC GROUP B BUSINESS

DESIGN LOADS (FBC-B CHAPTER 16):

WIND LOADS (FBC-B SECTION 1609):

10 PERSONS

CODE LIST

<u>DESIGN DATA</u>

OCCUPANT LOAD:

SQ FT ALTERED AREA

TOTAL EXITS:

OVERALL. ON CENTER. OUTSIDE DIAMETER. OFFICE

FLORIDA BUILDING CODE, BUILDING (FBC-B). 2020 Edition 2020 Edition FLORIDA BUILDING CODE, FUEL GAS (FBC-FG) 2020 Edition FLORIDA BUILDING CODE, MECHANICAL (FBC-M) FLORIDA BUILDING CODE, PLUMBING (FBC-P) 2020 Edition FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB).. FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R)..... . 2020 Edition FLORIDA FIRE PREVENTION CODE (FFPC)... . 2020 Edition NATIONAL ELECTRICAL CODE NFPA-70... 2017 Edition FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST. . Latest Edition FDOT DESIGN STANDARDS... .Latest Edition FLORIDA ACCESSIBILITY CODE.. .2020 Edition

CONSTRUCTION TYPE: TYPE II-B NON SPRINKLERED TOTAL BUILDING AREA PER FLOOR: 1,115 GSF

BUILDING HEIGHT/NUMBER OF STORIES: ___1

NUMBER OF BEDROOMS:

LEVEL OF ALTERATION:

REQUIRED SPRINKLER OR ALARM SYSTEM: No

SCOPE OF PROJECT

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION, AND PERMITTING TO CONSTRUCT NEW RESTROOM AND ASSOCIATED UTILITIES.

DRMP

DESIGNER

CONSULTANT CONTRACT No.

INITIAL ISSUE DATE

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M501 **DETAILS - MECHANICAL**

P001 LEGEND, NOTES, DETAILS & SCHEDULES - PLUMBING

FLOOR PLANS - PLUMBING P101 DETAILS & SCHEDULES - PLUMBING

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E001 LEGEND & NOTES - ELECTRICAL

E100 SITE PLAN - ELECTRICAL E101

P601

FLOOR PLANS - ELECTRICAL E701 PANEL SCHEDULES - ELECTRICAL

100% DESIGN

Digitally signed

AND SEALED BY:

by Benjamin R Lennon 2023.08.14 11:20:25-04'00'

DISTRICT 3

ON THE DATE ADJACENT TO THE SEAL PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE **VERIFIED ON ANY ELECTRONIC COPIES** THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.:

G100 COVER SHEET **G101 GENERAL NOTES**

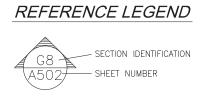
THIS ITEM HAS BEEN DIGITALLY SIGNED

G102 VICINITY MAP C100 DEMOLITION AND EROSION CONTROL PLAN

C101 SITE AND GRADING PLAN

C102 UTILITY PLAN

C200 CONSTRUCTION DETAILS C201 CONSTRUCTION DETAILS



. SYMMETRICAL .SOUTHERN YELLOW PINE

.UNDERGROUND ELECTRIC

VOLT
VENTILATOR
VERTICAL
VERIFY IN FIELD
VOLUME
VENT PIPE
VENT THRU ROOF



Depart

mental P

DISTRICT 5

GENERAL NOTES:

- . UNLESS OTHERWISE NOTED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH FDOT DESIGN STANDARDS (LATEST EDITION) AND THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
- IF CONTRACTOR OR THEIR SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR, OWNER MAY, BUT IS NOT REQUIRED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH REQUIREMENTS OF THESE GENERAL NOTES WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE, OR WITHIN THE TIME OF ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
- 3. THE PROJECT DESIGN HAS BEEN BASED UPON FIELD SURVEYS AND SITE VISITS BY J. BROWN PROFESSIONAL GROUP.
- 4. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, LIMITS OF CONSTRUCTION, WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY EFFECT THE SUCCESSFUL COMPLETION OF THE PROJECT, PRIOR TO THE COMMENCEMENT OF WORK. IF CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY OWNER OR OWNER'S AGENT.
- 5. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NOT PROVIDED, GIVE ALL NOTICES REQUIRED BY, AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, AND PERMIT CONDITIONS BEARING ON THE EXECUTION OF PROJECT, AS DRAWN AND SPECIFIED. IF CONTRACTOR OBSERVES THAT THE DRAWINGS OR SPECIFICATION ARE IN VARIANCE WITH ANY APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, HE SHALL TAKE ANY ACTIONS NECESSARY TO MITIGATE ANY POTENTIAL DAMAGE, AND PROMPTLY NOTIFY ENGINEER IN WRITING OF SUCH VARIANCE. ANY NECESSARY CHANGES TO THE DRAWING AND SPECIFICATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- 6. CONTRACTOR SHALL BE RESPONSIBLE TO OWNER AND ENGINEER FOR THE ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER THIS CONTRACT BETWEEN OWNER AND CONTRACTOR, FOR THIS PROJECT.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH ALL GOVERNMENTAL AGENCIES, DEPARTMENT OR BODIES, PUBLIC AND PRIVATE UTILITIES, CARRIERS OR SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ANY ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE OR TELEGRAPH FACILITIES, SUCH AS PAVEMENT, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED TO SUCH SERVICES, THAT ARE ENCOUNTERED DURING THE PROJECT, IN ORDER THAT SUCH ITEMS MAY BE PROPERLY PROTECTED, SUPPORTED OR RELOCATED AS NEEDED.
- 8. UNLESS OTHERWISE SPECIFIED IN THESE GENERAL CONDITIONS, SPECIFICATIONS OR IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS,

 SPECIFICATION AND APPLICABLE PERMITS, ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, PERMIT CONDITIONS AND BUILDING AND SAFETY CODES BEARING ON
 THE EXECUTION OF THE PROJECT.
- 9. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY OR EASEMENT, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMITS FROM THE APPLICABLE JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY OR EASEMENT. ADDITIONALLY, CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE CALL AT 1 (800) 432-4770 AT LEAST 72 HOURS PRIOR TO DIGGING OR OTHERWISE DISTURBING UTILITIES.
- 10. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS AND PROPERTY CORNERS. IN THE EVENT ANY REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS OR PROPERTY CORNERS ARE DISTURBED, CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE SUCH.
- 11. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS AND AGENCIES SHALL HAVE ACCESS TO THE PROJECT AT ALL TIMES. CONTRACTOR SHALL PROVIDE REASONABLE AND PROPER FACILITIES FOR SUCH ACCESS AND INSPECTION OF THE WORK.
- 12. CONTRACTOR SHALL COMPLY IN EVERY ASPECT WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AS AMENDED AND ALL RULES, STATUTES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT. THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS PERTAINING TO JOB SAFETY AND HEALTH, INCLUDING, BUT NOT LIMITED TO CFR 1910 AND 1926.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING AND SAFETY CODES, FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE AND REQUIRED SAFEGUARDS FOR THE SAFETY AND PROTECTION OF ALL PERSONNEL, EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, POSTING OF DANGER SIGNS AND OTHER WARNING AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REASONABLE AND PRUDENT PRECAUTIONS FOR THE SAFE AND SECURE PROTECTION OF ALL INCOMPLETE WORK, MATERIALS AND EQUIPMENT STORED ONSITE 25.

 AND OFFSITE, AND ANY UNAUTHORIZED ACCESS TO SUCH.
- 15. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, AND GUIDELINES AND RECOMMENDATIONS PERTAINING TO THE SAFE UTILIZATION OF ALL EQUIPMENT AND MATERIALS, AS PUBLISHED BY MANUFACTURER OR SUPPLIER.
- 16. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING, BUT NOT LIMITED TO, TUNNELS, DITCHES, SWALES, STORMWATER PONDS, CANALS, OR ARTIFICIAL LAKES), CONTRACTOR SHALL REVIEW AND MAKE
 ARRANGEMENTS TO COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, (INCLUDING
 BUT NOT LIMITED TO CFR 1926 SUBPART P, OSHA DIRECTIVES CPL 2.69 AND 2.87 AND STATE OF FLORIDA DHR REQUIREMENTS) PERTAINING TO SAFE TRENCHING AND EXCAVATION. CONTRACTOR SHALL INSTALL ALL
 NECESSARY FENCES AND BARRIERS. AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATIONS BY UNAUTHORIZED INDIVIDUALS IS PREVENTED.

GENERAL NOTES (CONT.)

- 17. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE AND REQUIRED PROTECTION TO PREVENT INJURY, DAMAGE OR LOSS TO:
 - A. ALL INDIVIDUALS INCLUDING CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, INSPECTORS AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER A CONTRACT WITH THE CONTRACTOR;
 - B. ALL THE WORK, MATERIALS AND EQUIPMENT TO BE INCORPORATED INTO THE FINAL PRODUCT, WHETHER IN STORAGE ONSITE OR OFFSITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS: AND
 - C. OTHER PROPERTY AT THE SITE OR ADJACENT TO THE SITE, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL OR DEMOLITION DURING THE COURSE OF THE PROJECT.
 - D. ALL DAMAGE OR LOSS TO ANY PROPERTY, UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER, CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, CONTRACTOR'S EMPLOYEES, ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK UNDER A CONTRACT WITH THE CONTRACTOR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR DAMAGE OR PROPERTY LOSS ATTRIBUTED SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER OR THE ENGINEER, OR ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK FOR THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- 18. ALL INJURY, DAMAGE OR LOSSES TO ANY PERSONNEL, EQUIPMENT, MATERIALS OR PROPERTY, AS NOTED IN THIS PARAGRAPH 18, CAUSED IN WHOLE OR IN PART, THROUGH FAULT OR NEGLIGENCE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR INJURY, DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS, ERRORS OR OMISSIONS OF OWNER, ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR THOSE ACTS ANY OF THEM MAY BE LIABLE AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- 19. UNTIL THE FINAL ACCEPTANCE OF THE PROJECT BY OWNER, CONTRACTOR SHALL HAVE THE COMPLETE CHARGE AND CARE OF, AND SHALL BEAR ALL RISKS AND EXPENSES FOR ANY INJURY, DAMAGE OR LOSS, OR TO ANY PORTION OF THE WORK, ALL MATERIALS STORED ONSITE OR OFFSITE BY THE ACTION OF THE ELEMENTS, OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. CONTRACTOR SHALL BEAR ALL EXPENSES FOR ANY REPAIRS, REBUILDING OR RESTORATION, AND MAKE GOOD ALL INJURIES, DAMAGES OR LOSSES TO ANY PORTION OF THE WORK BEFORE FINAL ACCEPTANCE OF THE PROJECT BY OWNER.
- 20. CONTRACTOR SHALL NOT LOAD, CAUSE OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER SAFETY.
- 1. THOSE PARTS OF THE WORK IN PLACE, WHICH ARE SUBJECT TO DAMAGE, BECAUSE OF ACTIVITIES OR OPERATIONS BEING CARRIED OUT ADJACENT TO, SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY CONTRACTOR AT HIS EXPENSE.
- PERMANENT OPENINGS USED AS THOROUGHFARES FOR THE INTRODUCTION OF WORK, PERSONNEL, EQUIPMENT AND/OR MATERIALS TO STRUCTURES SHALL HAVE HEADS, JAMBS AND SILLS WELL BLOCKED AND BOARDED BY THE CONTRACTOR. OWNER RETAINS THE AUTHORITY, BUT ASSUMES NO DUTY TO ESTABLISH STANDARDS OF PROTECTION, AND TO REVIEW THE EFFICIENCY OF PROTECTIVE MEASURES TAKEN BY CONTRACTOR.
- 23. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMEN SERVICES SHALL BE FURNISHED AND MAINTAINED BY CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTER ONTO, EXITS FROM OR CROSSES TRAFFIC CARRYING ROADS.
- 24. CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COST, ATTORNEY'S FEES, EXPENSES, CAUSE OF ACTION, CLAIMS OR OTHER JUDGMENTS RESULTING FROM VIOLATIONS UNDER OSHA OR ANY RULES, STATUTES OR REGULATIONS PROMULGATED THERE UNDER, OR ANY FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK OR WORK TO BE PERFORMED ON THIS PROJECT. CONTRACTOR SHALL INDEMNIFY OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES PAID OR INCURRED BY, OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENT AND EMPLOYEES. CONTRACTOR FURTHER AGREES IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL, STATE OR LOCAL SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK, OR WORK TO BE PERFORMED ON THIS PROJECT, OWNER MAY IMMEDIATELY TAKE ALL ACTIONS DEEMED NECESSARY TO REMEDY THE CLAIMED VIOLATIONS. ANY AND ALL COST OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE SOLELY BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COST OR EXPENSES.
- 25. ALL WORK PERFORMED UNDER THIS CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES, AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL APPLY.
- 26. "HAZARDOUS MATERIALS" MEANS ANY SUBSTANCE WHICH:
- A. THE PRESENCE OF REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, OR
- B. IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE", "HAZARDOUS SUBSTANCE", POLLUTANT OR CONTAMINATE UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS OR AMENDMENTS, INCLUDING BUT NOT LIMITED TO, THE 1980 COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND/OR THE 1976 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), OR
- C. IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY,

DEPARTMENT, COMMISSION, BOARD OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE(S) IN WHICH THE PROJECT IS LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR

- D. THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES. OR
- E. THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE ENVIRONMENT,
- F. CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR
- G. CONTAIN POLYCHLORINATED BIPHENYLS (PCB'S), ASBESTOS, MERCURY, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
- 27. ALL DISTRUBED AREAS NOT PAVED SHALL BE SODDED. SOD SPECIES SHALL BE APPROVED BY FDEP, AND SHALL NOT CONTAIN MESH BACKING.

STATE PARK	PROFESSIONAL REGISTRATION BENJAMIN R. LENNON, P.E.	DESIGNER: BRL	ISSUE DATE: 6/5/2023	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
FORT WHITE, FL 32038	FLORIDA ENGINEER #78674	DRAWN BY: RAJ	COMP. FILE No.: 14-0210.038						
(L H		REVIEWED BY: RRC	STATE PROJECT No.: 61363C						
		Consultant:	Dep	artment	Ö		Environmental	Protection	UO

HEET TITLE

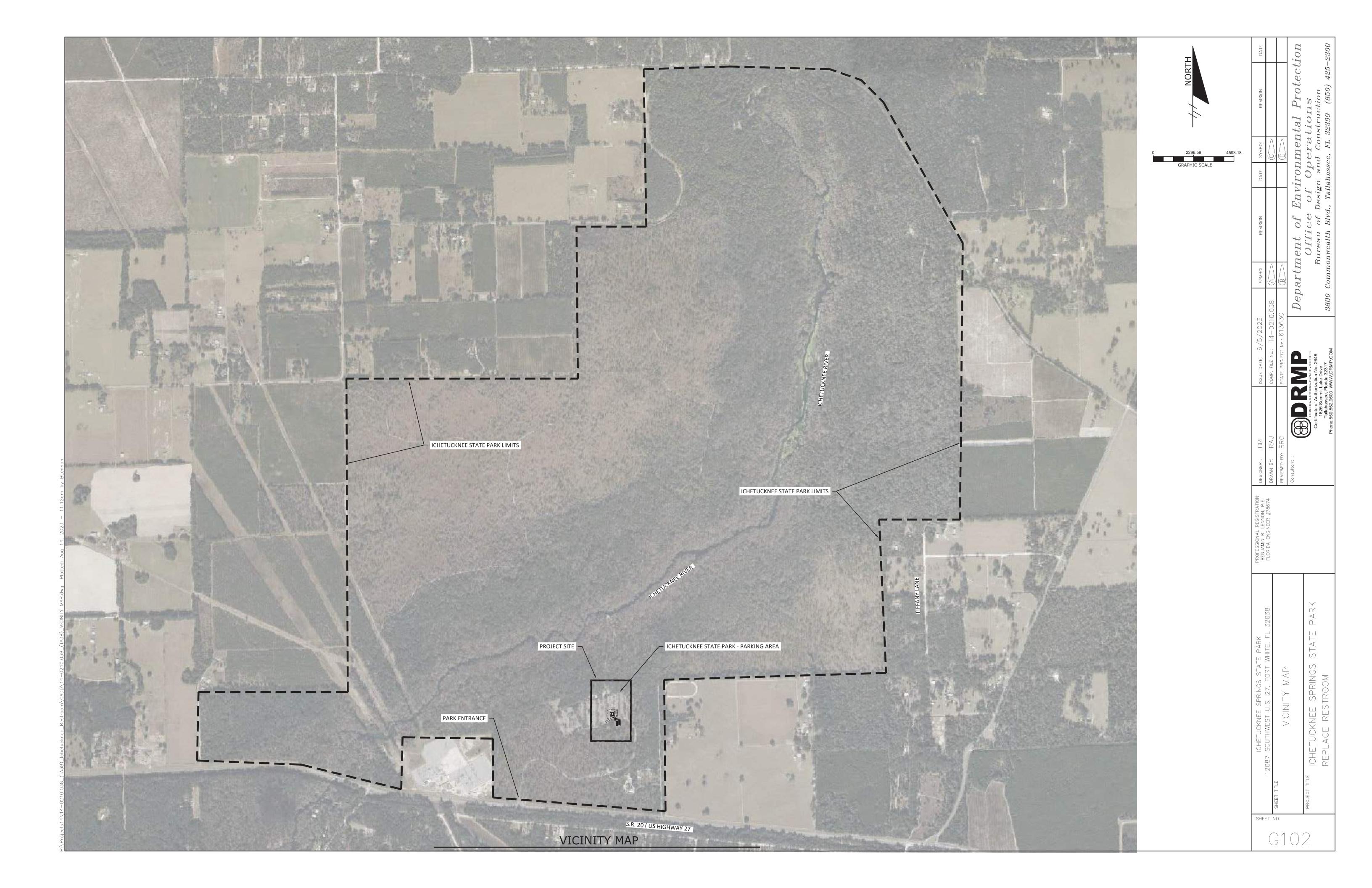
GENERAL NOTES

ROJECT TITLE

ICHETUCKNEE SPRINGS STATE PAF

G101

SHEET NO.



EROSION CONTROL NOTES:

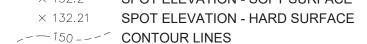
- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A NPDES PERMIT OR EXEMPTION PRIOR TO CONSTRUCTION
- 2. EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 3. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- 4. ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
- 5. EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE FENCE
- 6. TEMPORARY GRASSING IS NOT TO BE LESS THAN TWO (2) DAYS AFTER COMPLETION OF ANY GRADING ACTIVITIES.
- 7. SILT FENCE MUST MEET THE REQUIREMENTS OF FDOT, STANDARD SPECIFICATIONS, LATEST
- 8. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL FOLLOWING FINAL GRADING.
- 9. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
- 10. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
- 11. CONTRACTOR TO COMPLETELY SECURE FROM EROSION ANY STOCK PILE OF EARTHEN MATERIALS. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY MATERIAL STOCKPILE LOCATIONS PRIOR TO COMMENCING WORK. THE LOCATIONS WILL BE CONFIRMED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE ESPC PLANS WILL BE "REDLINED" WITH APPROPRIATE BMP'S TO REFLECT THE LOCATIONS.
- 12. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- 13. ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FDOT.
- 14. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, COUNTY REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
- 15. MAXIMUM CUT OR FILL SLOPES IS 3H:1V.
- 16. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
- 17. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES AND ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- 18. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
- 19. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
- 20. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
- 21. NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.
- 22. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 23. ADEQUATE ROOM HAS BEEN PROVIDED WITHIN THE PROJECT LIMITS FOR REMOVAL OF BMP'S.THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE/BEYOND THE LIMITS OF CONSTRUCTION/DISTURBANCE TO REMOVE BMP'S.

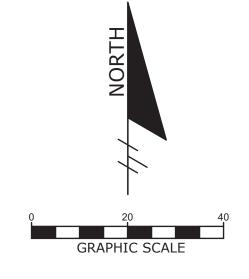
EXISTING LEGEND:

SYMBOL LEGEND

BENCHMARK

9 SYC
 TREE-SIZE(INCHES) AND SPECIES
 X 132.2
 X 132.2
 SPOT ELEVATION - HARD SURFACE
 X 132.21





ABBREVIATIONS

EP = EDGE OF PAVEMENT BC = BACK OF CURB

JBPRO = JBROWN PROFESSIONAL GROUP

LB = LICENSED BUSINESS LS = LICENSED SURVEYOR

NAD83(2011) = NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988

TREES:

CH = CHERRY LAUREL
LA = LAUREL OAK
MULTI = MULTIPLE TRUNK
PI = PINE
PO = POST OAK
SY = SYCAMORE
TO = TURKEY OAK

TWIN = TWIN TRUNK

WO = WATER OAK

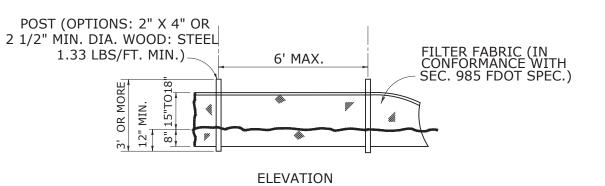
OPTIONAL POST POSITIONS

PRINCIPLE POST POSITION

FILTER FABRIC

SILT FLOW

SECTION



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE

N.T.S.

SITE ACCESS

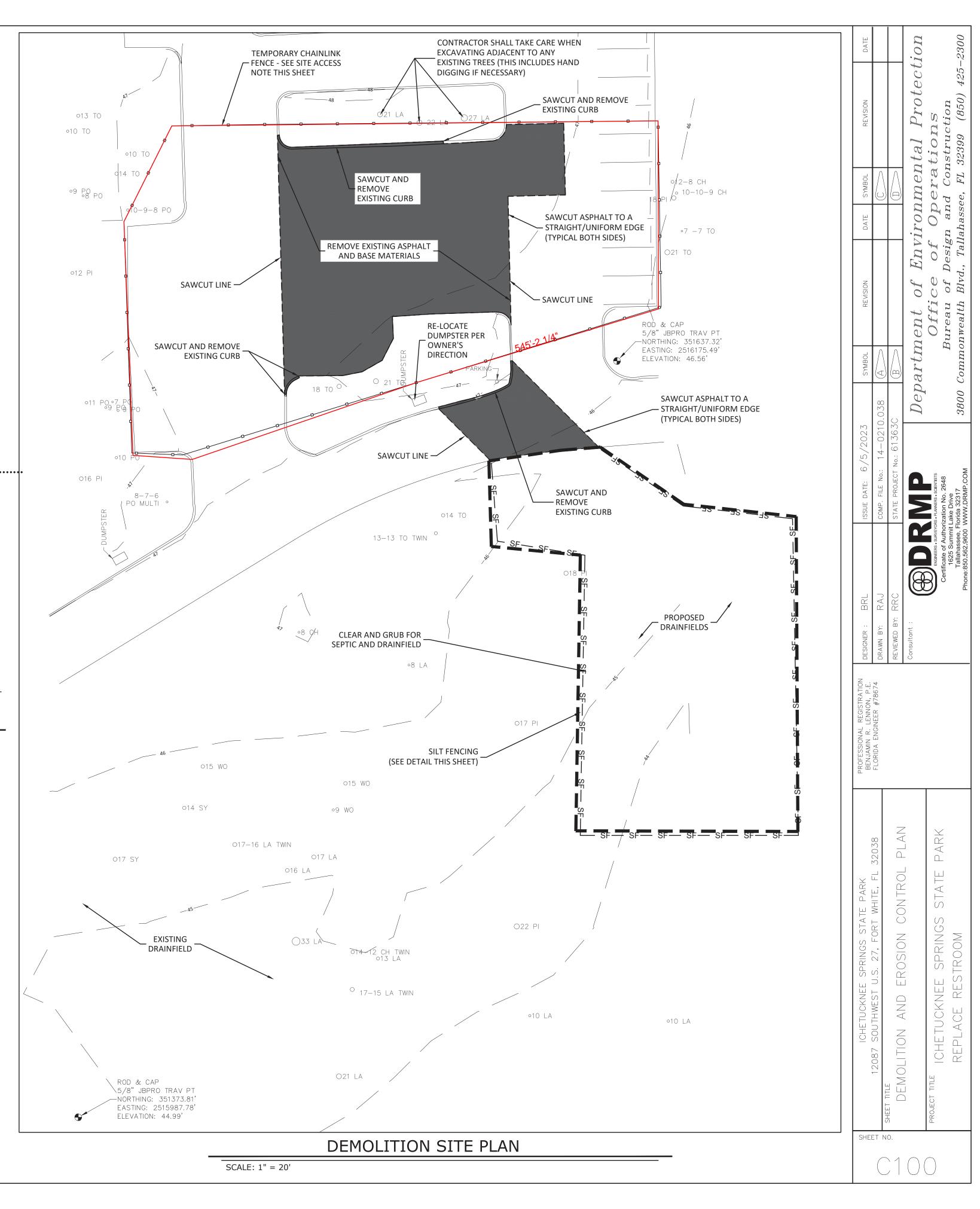
- 1. THE CONTRACTOR SHALL CONTROL ACCESS TO THE PROJECT SITE. TEMPORARY 6-FT HIGH(MIN.) CHAINLINK FENCE WITH SCREENING IS REQUIRED AROUND THE ENTIRE PERIMETER OF THE WORK ZONE TO PROHIBIT THE PUBLIC FROM ENTERING. COORDINATE ACCESS WITH PARK STAFF. OTHER PARTS OF THE PARK WILL BE IN-USE DURING CONSTRUCTION. ALL SECURITY AND ACCESS MANAGEMENT IS INCIDENTAL TO THE PROJECT NO SEPARATE PAYMENT.
- 2. STAGING AND STORAGE SHALL BE COORDINATED WITH PARK STAFF.

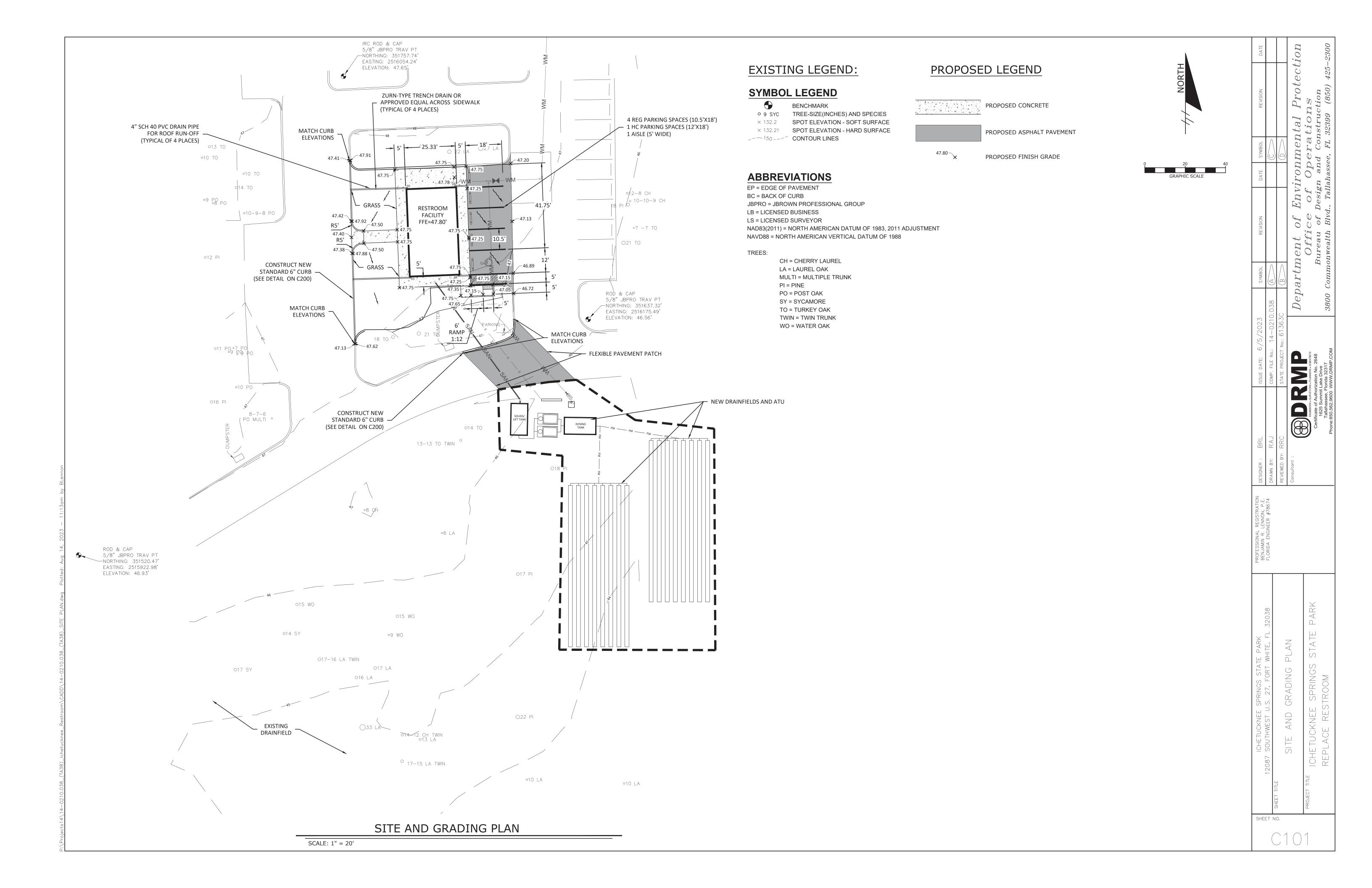
MAINTENANCE OF TRAFFIC

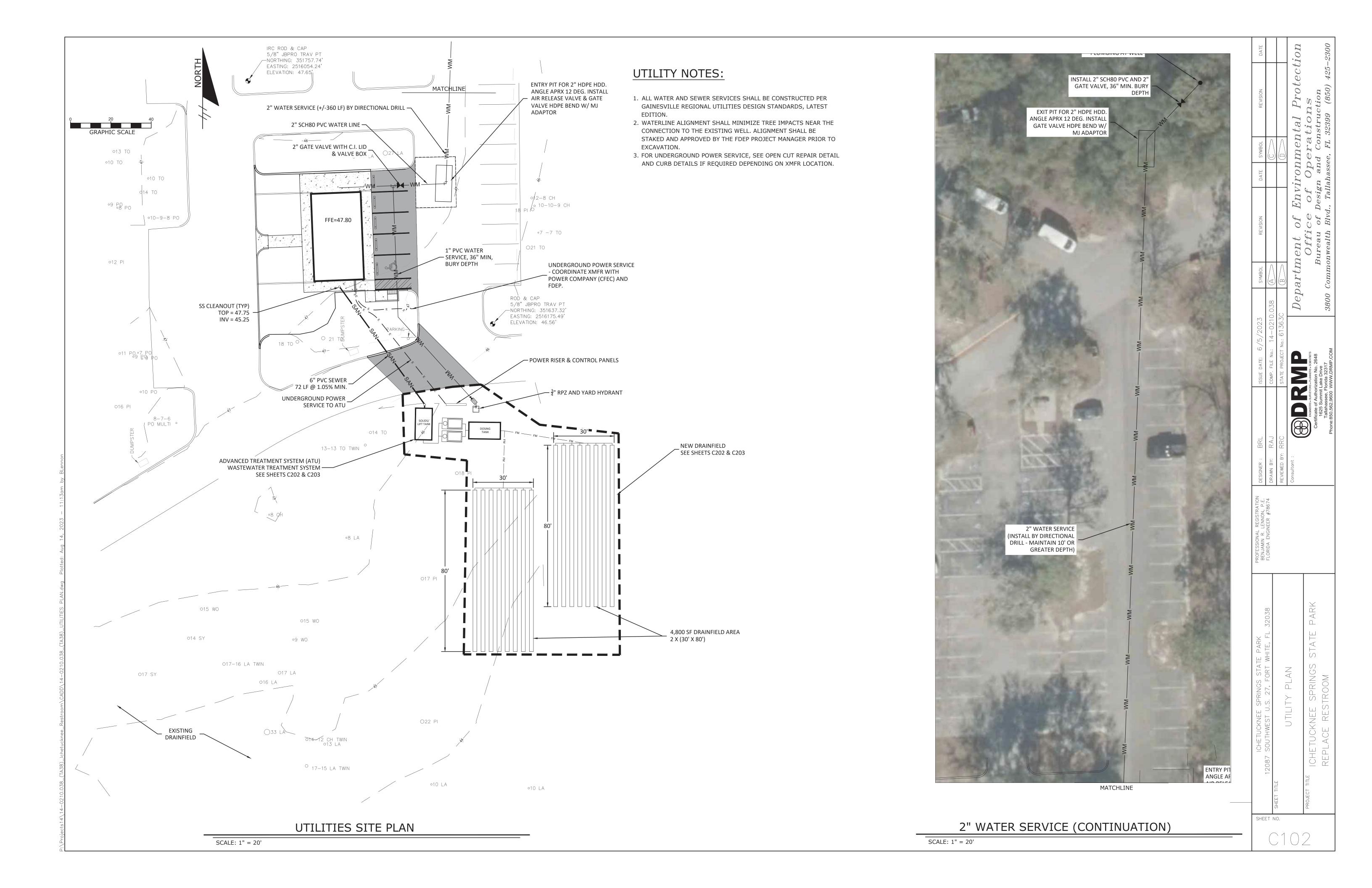
- 1. CONTRACTOR IS RESPONSIBLE FOR ALL VEHICULAR AND PEDESTRIAN MAINTENANCE OF TRAFFIC ADJACENT TO THE PROJECT AREA. THIS MAY INCLUDE BUT NOT LIMITED TO SIGNS, BARRICADES, AND FLAGGERS. SIGNAGE AND PROCEDURES SHALL BE IN ACCORDANCE TO FDOT STANDARD PLANS 102-600.
- 2. COORDINATE ALL LANE CLOSURES WITH FDEP

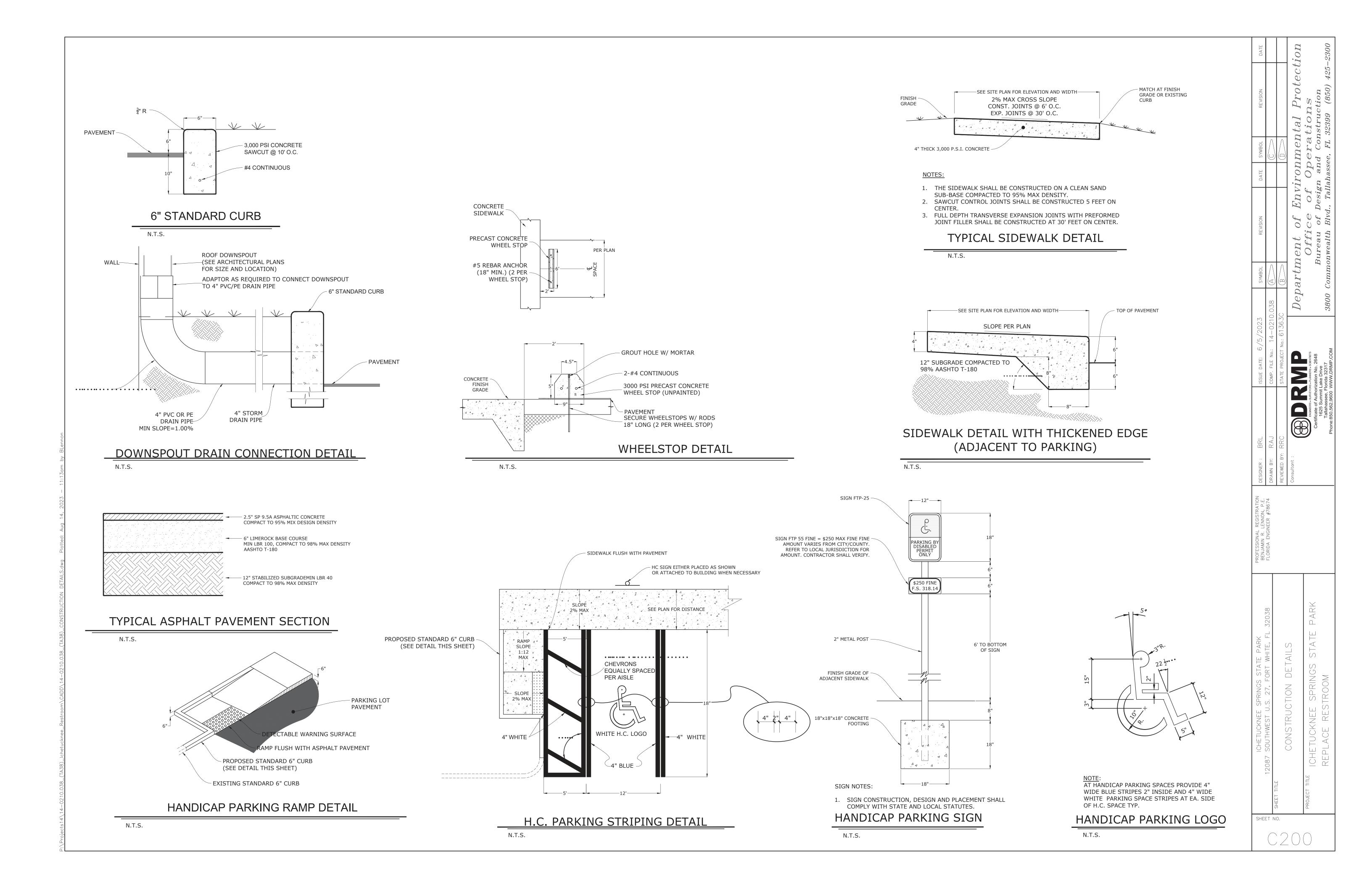
DEMOLITION NOTES

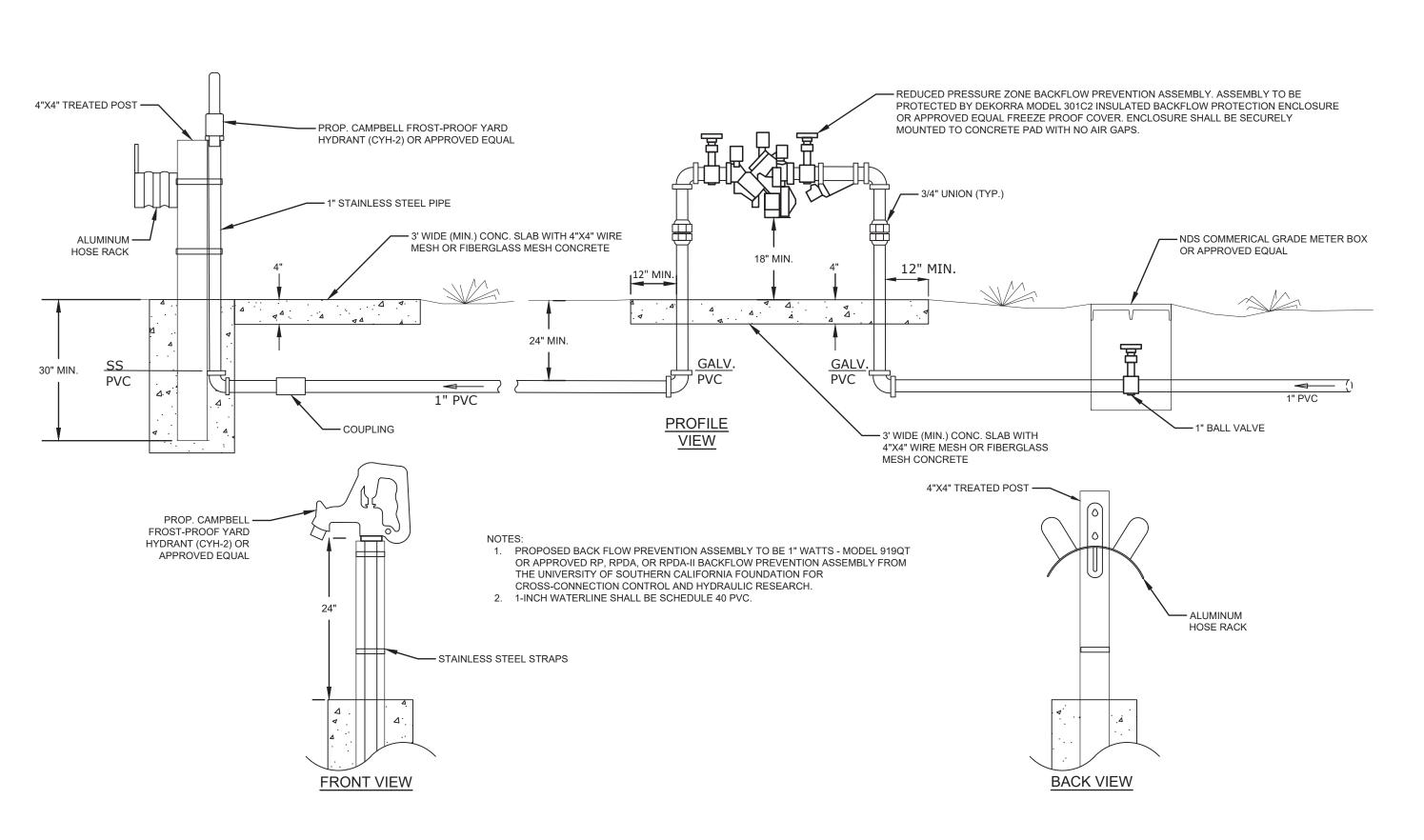
- 1. CALL SUNSHINE 811 BEFORE DIGGING.
- 2. ALL EXISTING FACILITIES, CONCRETE, STRUCTURES, AND VEGETATION SHOWN TO REMAIN SHALL BE PROTECTED. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED ITEMS TO EQUAL OR BETTER CONDITION.

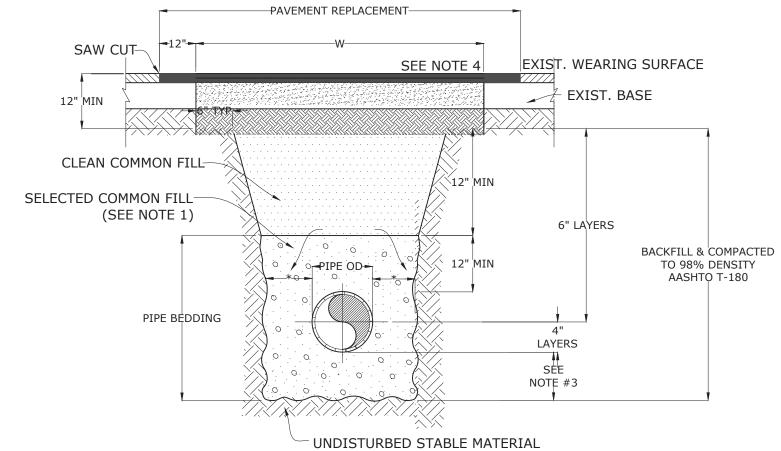




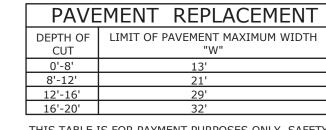








N.T.S.



THIS TABLE IS FOR PAYMENT PURPOSES ONLY. SAFETY REQUIREMENTS MAY DICTATE INCREASED WIDTHS.

NOTES:

1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

2. 10" MAX. FOR PIPE DIAMETER LESS THAN 24"

3. 4" MAX. FOR PIPE 15" DIAMETER AND LESS

4. SEE TYPICAL ASPHALT SECTIONS SHEET C200.

5. BASE MATERIAL SHALL BE D.O.T. NO. 57, LIMEROCK, SHELL OR APPROVED EQUAL.

 BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.

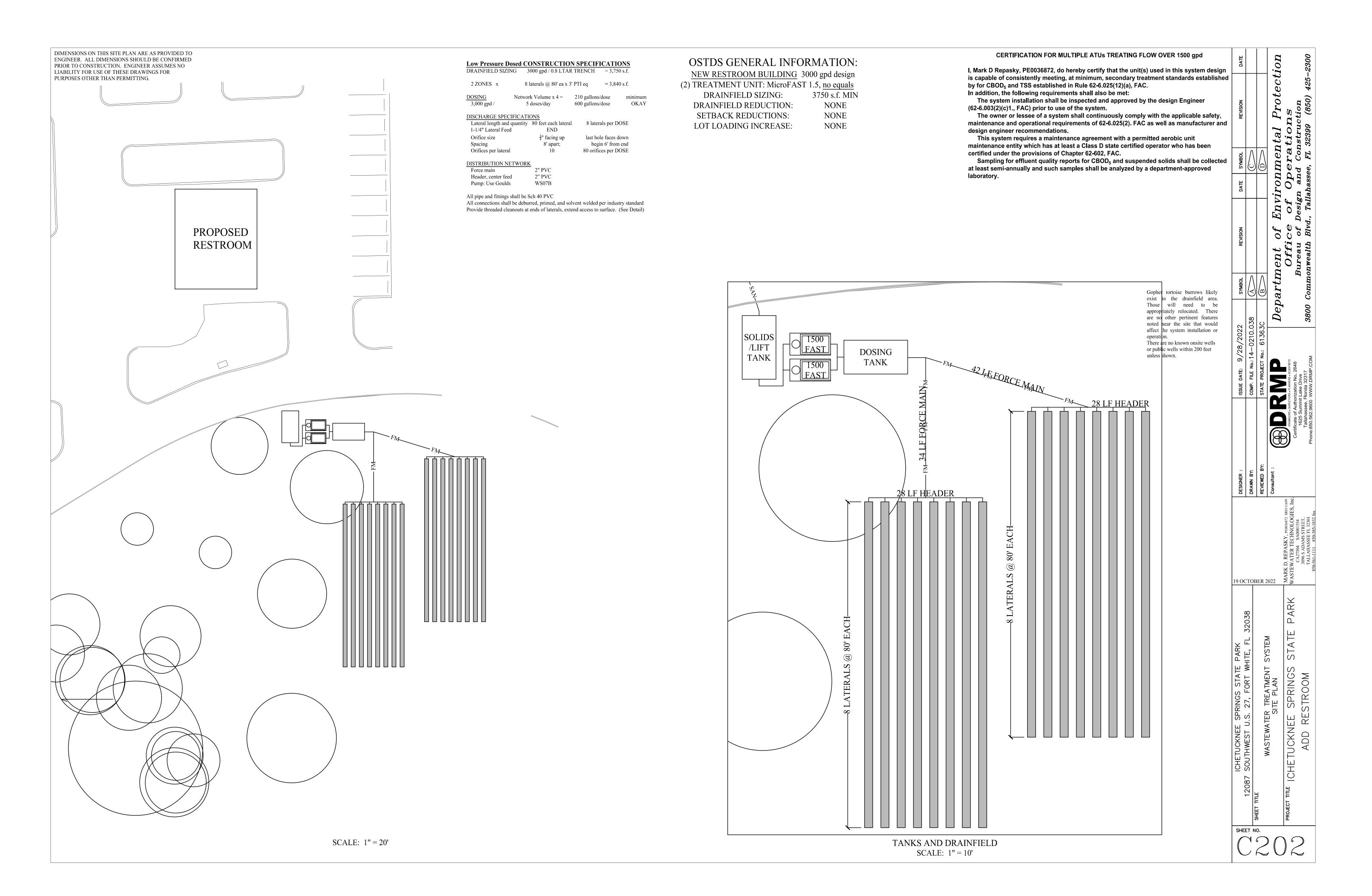
7. TEMPORARY PATCHES WILL BE MAINTAINED SO AS TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIME. PERMANENT PATCH TO BE MADE AS SOON AS POSSIBLE.

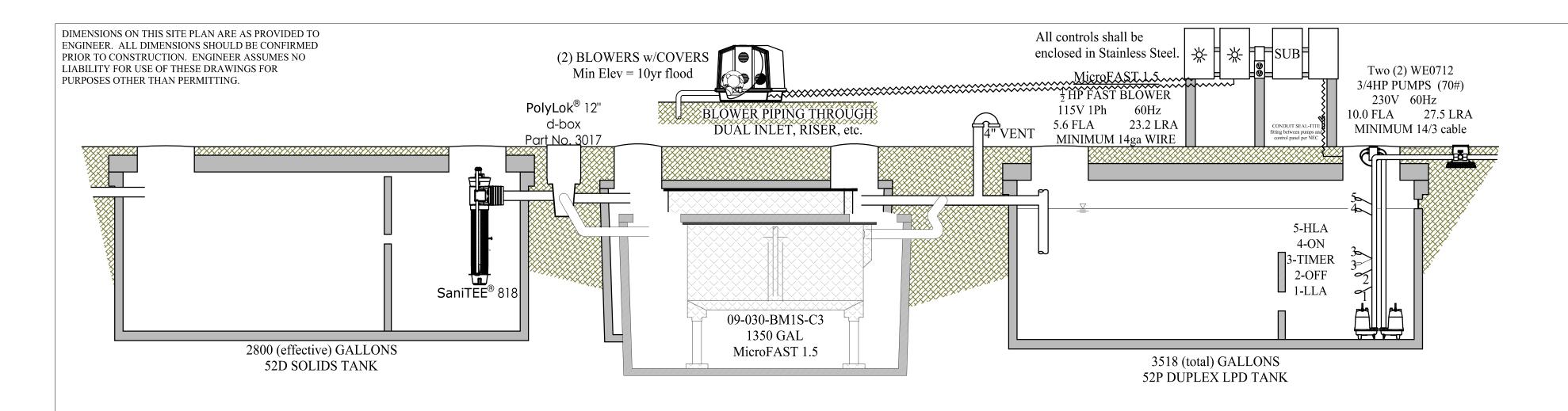
YARD HYDRANT & RPZ DETAILS

N.T.S.

OPEN CUT PAVEMENT REPAIR DETAIL

Sold Salary of Sold S SHEET NO.





TANK PROFILES

 $\frac{3}{8}$ " = 1'

CERTIFICATION FOR MULTIPLE ATUS TREATING FLOW OVER 1500 gpd

I, Mark D Repasky, PE0036872, do hereby certify that the unit(s) used in this system design is capable of consistently meeting, at minimum, secondary treatment standards established by for CBOD $_5$ and TSS established in Rule 62-6.025(12)(a), FAC. In addition, the following requirements shall also be met:

The system installation shall be inspected and approved by the design Engineer (62-6.003(2)(c)1., FAC) prior to use of the system.

The owner or lessee of a system shall continuously comply with the applicable safety, maintenance and operational requirements of 62-6.025(2). FAC as well as manufacturer and design engineer recommendations.

This system requires a maintenance agreement with a permitted aerobic unit maintenance entity which has at least a Class D state certified operator who has been certified under the provisions of Chapter 62-602, FAC.

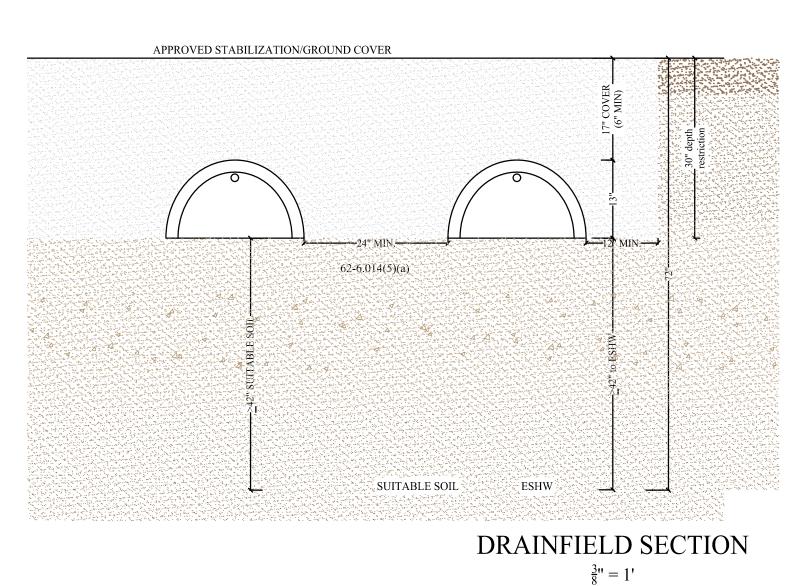
Sampling for effluent quality reports for $CBOD_5$ and suspended solids shall be collected at least semi-annually and such samples shall be analyzed by a department-approved laboratory.

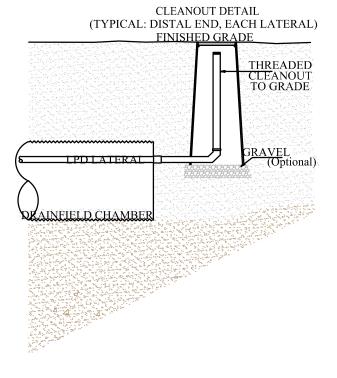
CONTROLS

Electrical conduit and effluent dosing pipe is water tight and exits the tank through the tank outlet with a water-tight seal, or through the riser wall, above ESHW, with a soil-tight seal, or through an access port in the tank lid installed by manuf. with a water-tight seal per 62-6.013(9)(c), FAC.

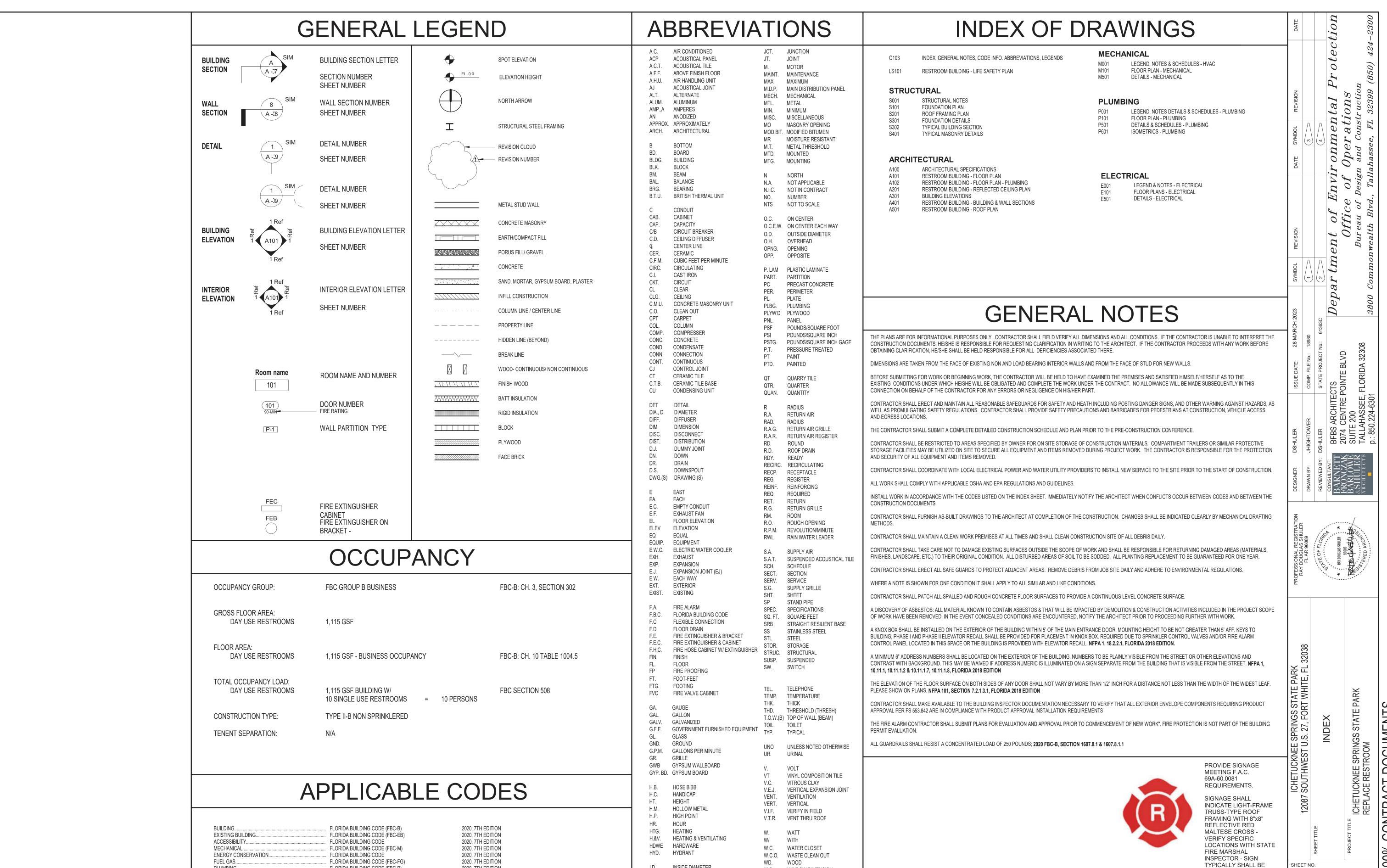
TIMER is allowed as part of this design submitted by this Engineer, per 62-6.013(9)(d)1., FAC Control panels shall be as close as practicable to equipment served.

Alarm shall be located in a conspicuous location. When outdoors, alarm shall be waterproof and specified by manufacturer for outdoor use per 62-6.013(9)(d)2, FAC ***Controls enclosures shall be STAINLESS STEEL***





i	22 SYMBOL REVISION DATE SYMBOL REVISION DATE).038 (A>	53C B>	Department of Environmental Protection	Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300
	ISSUE DATE: 9/28/2022	COMP. FILE No.: 14-0210.038	STATE PROJECT No.: 61363C		Certificate of Authorization No. 2648 1625 Summit Lake Drive Tallahassee, Florida 32317 Phone:850.562.9600 WWW.DRMP.COM
	DESIGNER:	DRAWN BY:	REVIEWED BY:	Consultant :	PASKY, PE0036872 SR0111699 ER TECHNOLOGIES, Inc. 7504 SA0081554 5 ADAMS STREET, AHASSEE FL 32301 111 850-385-1832 fax
	19 OC	СТОІ	BER 2	022	MARK D. RE WASTEWATI CA2' 3096 1 TALL 850-561-1
	ICHETUCKNEE SPRINGS STATE PARK		Ö SHEET TITLE WASTEWATED TDEATMENT SYSTEM DETAILS	WASTEWATEN TREATMENT STSTEM DETAILES	PROJECT TITE ICHETUCKNEE SPRINGS STATE PARK ADD RESTROOM



INSIDE DIAMETER

INCHES

INSULATION

INTERIOR

INCAND. INCANDESCENT

INSUL.

W.D.

W.G.

WINDOW DIMENSION

WATER GAGE

W.W.F. WELDED WIRE FABRIC

WEATHERPROOF

2020, 7TH EDITION

2020, 7TH EDITION

2017 (per 7th Ed. FBC-B)

FLORIDA BUILDING CODE (FBC-P)

FLORIDA FIRE PREVENTION CODE (FFPC)

NATIONAL ELECTRICAL CODE (NFPA 70)

PLUMBING..

ELECTRICAL...

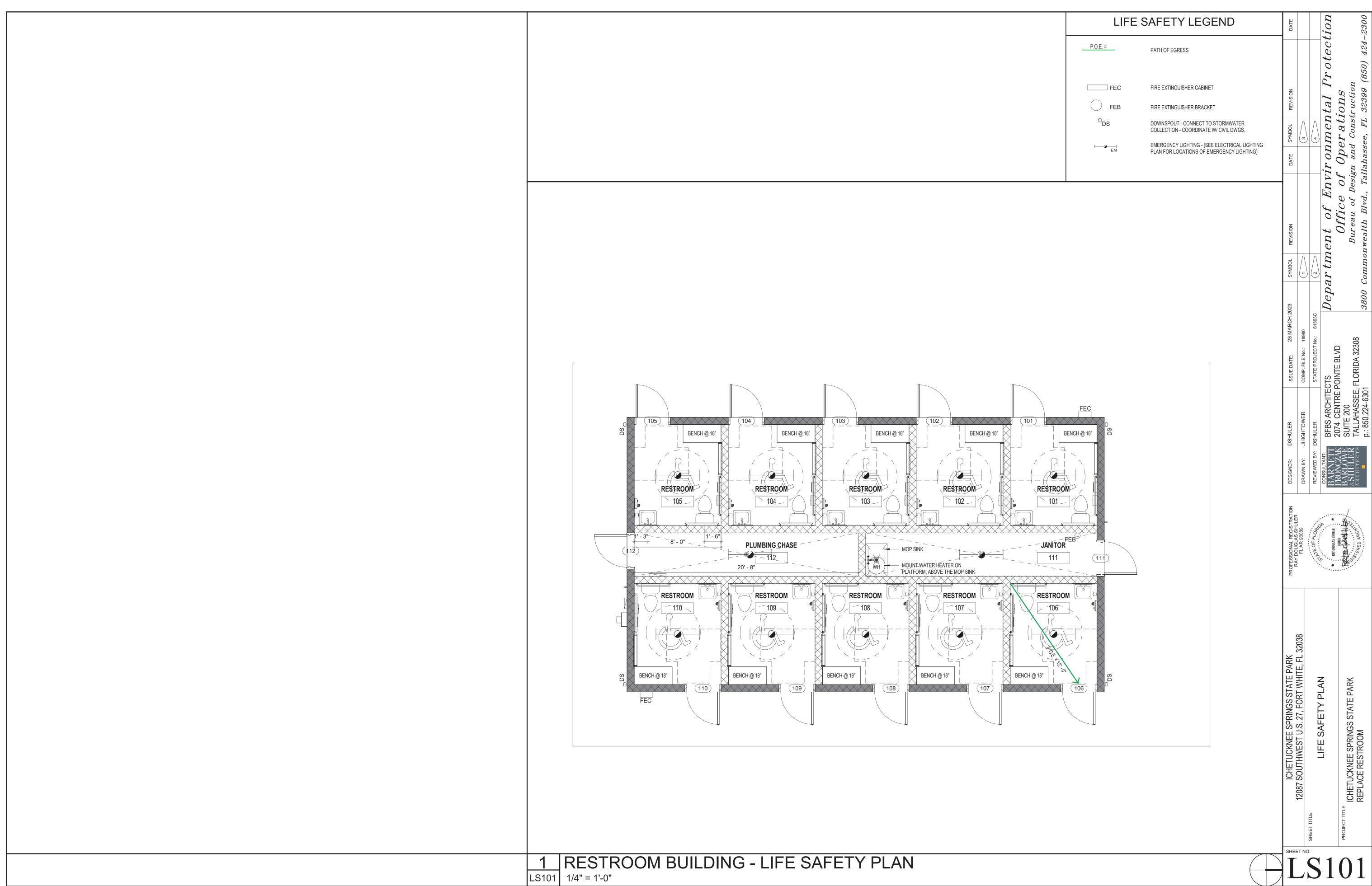
FIRE PREVENTION.

LOCATED WITHIN 24" TO

THE LEFT OF THE MAIN

ENTRY AND BETWEEN

4'-0" AND 6'-0" A.F.F.



0% CONTRACT DOCUMENTS

FDN, FDTN

FOV

FRMG

HCP

HCS

HDR

HP

HSB

ICB0

ICC-ES

INTERNATIONAL

OFFICIALS

CONFERENCE OF BUILDING RO

DEGREE

PLUS OR MINUS

AMERICAN CONCRETE

ABOVE FINISHED FLOOR

AMERICAN INSTITUTE OF

STEEL CONSTRUCTION

ANCHOR, ANCHORAGE

Standards institute

ARCHITECT, ARCHITECTURAL

AMERICAN SOCIETY OF CIVIL

AMERICAN SOCIETY FOR

TESTING AND MATERIALS

BOTTOM CHORD EXTENSION HDG

ALL THREADED ROD

AMERICAN WELDING

AMERICAN NATIONAL

ANCHOR ROD

ENGINEERS

INSTITUTE

BALANCI

BUILDING

BLOCKING

BRACED FRAME

BOTTOM OF DECK

BOTTOM OF STEEL

BUCKLING RESTRAIN

BASE PLATE OR BUTTON

FOUNDATION

BOTTOM

BEARING

BOTH SIDES

BASEMENT

COLLECTOR

CAMBER OR CHANNEL

CENTER TO CENTER

COURSE GROUT

CUBIC FOOT, FEE

CAST-IN-PLACE

CONTROL JOINT

COMPLETE JOINT

CLEAR, CLEARANCE

CONCRETE MASONRY UNIT

PENETRATION

CENTERLINE

COLUMN

CONCRETE

CONNECTION

CONTINUOUS

CONTRACTOR

COORDINATE

CUBIC

PENNY (NAIL

DEMAND CRITICAL

DOUBLE

DEGREE

DIAMETER

DIAGONAL

DIAPHRAGM

DIMENSION

DISCONTINUE

DEAD LOAD

DEEP, DEPTH

EXPANSION BOLT

EXPANSION JOINT

EMBEDMENT, EMBEDDED

EACH END

EACH FACE

ELEVATION

ELEVATOR

ENGINEER

EQUAL

EDGE OF DECK

EDGE OF SLAB

EACH SIDE

EACH WAY

EXPANSION

EXISTING

ELEC, ELECT ELECTRICAL

EQP, EQUIP EQUIPMENT

MCR

MECH

MEZZ

MFR

MISC

MLB

MO

N-GROUT

NON-SHRINK GROUT

DOWN

DITTO

DETAIL

DWG, DWGS DRAWING, DRAWINGS

DWL, DWLS DOWEL, DOWELS

DISCONTINUOUS

COMPOSITE OR

COMPRESSION

CANTILEVER

BETWEEN

BOTTOM OF FOOTING,

AIR HANDLING UNIT

ANCHOR BO

ADDENDUM

ADDITIONAL

ADHESIVE

ADJACENT

ALTERNATE

ADDL

ADH

AFF

ANCH

ansi

ARCH

ASCE

BCX

BLDG

BLKG

BOF

BOT, B

PUNCH

BRB

BRAC

BRG

BSMT

BTWN

C-GROUT

CANT

COMP

CONC

CONFIG

CONN

CONST

CONT

CONTR

COORD

CRSI

CTR

DBL

DC

DEG, *

DEMO

DIA

DIAG

DIAPH

DISC

DP, D

DTL

ELEV

EMBED

ENGR

EOD

EOS

ES

EXIST, (E)

EXP

FLOOR CONTROL JOINT

FINISHED FLOOR ELEVATION OD

OPNG

OPT

OPP HD

FOUNDATION

FLANGE

FLOOR

GAUGE

FINISH, FINISHED

FACE OF BRICK

FERRULE LOOP INSERT

NOT IN CONTRACT W/0 WITHOUT NON-LOAD BEARING WALL CONTROL JOINT NUMBER WOOD NOMINAL WIDE FLANGE NEAR SIDE WORKING POIN NOT TO SCALE WELDING PROCEDURES SPECIFICATIONS NORMAL WEIGHT WELD STUD ON CENTER WEIGHT OR STRUCTURAL OUTSIDE DIAMETER TEE CUT FROM W SECTION OUTSIDE FACE WELDED WIRE FABRIC OVERSIZED HOLE WELDED WIRE MESH **OPENING**

X-STR

EXTRA STRONG

DOUBLE EXTRA STRONG

FACE OF CONCRETE OPEN WEB JOIST FACE OF MASONR' FACE OF STUD PRECAST CONCRETE FACE OF VENEER PCF POUNDS PER CUBIC FOOT FACE OF WALL POWER DRIVEN FASTENERS PENETRATION FAR SIDE PERIM PERIMETER FOOT, FEET PERPENDICULAR FOOTING PARTIAL HEIGHT WAL PARTIAL JOINT PENETRATION PL, P PLATE GALVANIZED POUNDS PER LINEAL FOOT GRADE BEAM PLYWD PLYWOOD GENERAL CONTRACTOR PARTIAL PENETRATION GLUE LAMINATED BEAM PREFABRICATED GUSSET PLATE GRADE, GRADING PRESTRESSED GYPSUM WALL BOARD PRESTRESSED CONCRETE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH HEADED ANCHOR STUD PARALLEL STRAND LUMBER POINT

OPPOSITE

OPTIONAL

OPPOSITE HAND

HOLLOW CORE PLANK HOLLOW CORE SLAB HOT DIPPED GALVANIZED POST TENSION CONCRETE HEADER PRESSURE TREATED TIMBER HANGER POLYVINYL CHLORIDE HOLLOW METAL HORIZONTAL HIGH POINT OR BEARING HIGH STRENGTH BOLT REINFORCED CONCRETE HOLLOW STRUCTURAL REFER TO REFERENCE REINFORCE(D), (ING) HEATING/VENTILATION/AIR CONDITIONING RETAINING INTERNATIONAL BUILDING REVISION, REVISED RUSTICATION JOINT

ROUGH OPENING

AMERICAN STANDARD SHAPE

ROOF TOP UNIT

SLIP CRITICAL

SECURITY

SECTION

SHEET

SIMII AR

SPACE(S)

SPACING

SQUARE

S SECTION

STANDARD

STAGGERED

STIFFENER

STRUCTURAL

SUPPORT

SHEAR WALL

SYMMETRICAL

STEEL

STAIR

SQUARE FOOT

SHEATHING

SLAB ON GRADE

SPECIFICATION

STAINLESS STEEL

SHORT SLOTTED HOLE

SOCIETY FOR PROTECTIVE

STRUCTURAL TEE CUT FROM

ICC EVALUATION SERVICE INSULATED CONCRETE MASONRY UNIT INSIDE DIAMETER SCH, SCHED SCHEDULE INSIDE FACE ISOLATION JOINT SECT INCH, INCHES INCLUDED, INCLUDING INFORMATION SHTG INSULATION SPCG SPEC

K, KIP KILOPOUND KIPS PER SQUARE FOOT KSF SSPC CONFIGURATION KSI KIPS PER SQUARE INCH CONSTRUCTION ANGLE OR LENGTH OR LONG LATERAL STGD LAG BOLT OR POUND STIFF CONCRETE REINFORCING LEFT END STEEL INSTITUTE LINEAR FOOT CENTER, CENTERED LATERAL FORCE RESISTING STRUCT CURTAIN WALL LGT, LONG LONGITUDINAL SW LOAD INDICATOR BOLT LIB SYM LINEAR LOAD INDICATOR WASHER DEFORMED BAR ANCHOR

TOP OF BOTTOM LIVE LOAD TONGUE AND GROOVE LONG LEG HORIZONTAL TCX TOP CHORD EXTENSION LONG LEG VERTICAL TEMP TEMPERATURE, TEMPERED LANDING LNDG TEMPORARY DEMOLISH, DEMOLITION LINTEL TENSION LOCATE, LOCATION THK THICK, THICKNESS THREAD, THREADED LOW POINT LONG SLOTTED HOLE TOB TOP OF BEAM LAMINATED STUD LUMBER TOP OF CONCRETE LSL LONG SLOTTED HOLT TOCW TOP OF CONCRETE WALI LSV LAMINATED VENEER LUMBER TOP MAS TOSLAB MATERIAL TOW MAXIMUM MAX

TOP OF FOOTING TOP OF PARAPE TOP OF STEEL TOP OF SLAB TOP OF WALL MACHINE BOLT (A-307) THREADED ROD IN TRA MISCELLANEOUS CHANNEL ADHESIVE ANCHOR TRANSVERSE MODIFIED CHLOROPRENE TRANS RUBBFR THICKENED SLAB FOOTING MECHANICAL TYP TYPICAL MECHANICAL, ELECTRICAL, PLUMBING UNIFORM BUILDING CODE MEZZANINE UFRC UPSET END FLANGE REBAR MOMENT FRAME MANUFACTURER UON UNLESS OTHERWISE NOTED MIDDLE ULTRASONIC TEST MINIMUM MISCELLANEOUS

VERT, V VERTICAL MICROLAM BEAM VRY VERIFY MASONRY OPENING VERIFY IN FIELD MAGNETIC PARTICAL TEST VMS VERTICAL MOVEMENT STRUCTURAL TEE CUT FROM M SECTION VFNFFR

WIDTH OR WIDE FLANGE

1. GENERAL NOTES

1.1. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 7th EDITION (2020). THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT. UNLESS OTHERWISE NOTED, ALL WORK AND MATERIALS SHALL CONFORM WITH THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.

1.2. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS, AND PROJECT 7. REINFORCEMENT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS, USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES OR FIELD CONDITIONS ENCOUNTERED IN CONFLICT WITH THE DRAWINGS IN WRITING TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE ARCHITECT OR ENGINEER OF RECORD.

1.3. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OR ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.4. DETAILS LABELED AS "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION.

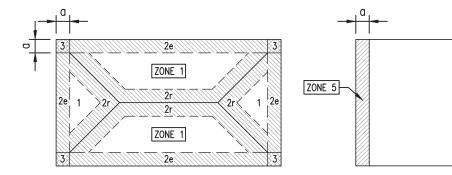
1.5. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE GENERAL PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION PERSONNEL RELATED TO THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.

2. <u>DESIGN LOADS</u>

LIVE LOAD DEAD LOAD R00FS 20 PSF 20 PSF

3. WIND LOAD DESIGN CRITERIA (PER ASCE 7-16)

WIND SPEED (ULT/ASD) = 120 MPH / 93 MPHRISK CATEGORY = || WIND EXPOSURE CATEGORY = B ENCLOSURE CLASSIFICATION = ENCLOSED = 3'-0"EDGE ZONE WIDTH (a) EAVE HEIGHT (h) = 10'-0"



BUILDING ROOF PLAN

TYPICAL BUILDING ELEVATION

ZONE 4

COMPO	NENT & CLADDIN	NG LOADS - RO	OOF	COMPONENT &	: CLADDING LOADS	- WALLS	
				TRIB AREA	PRES	SURE	
TRIB AREA	PRES	SURE	OVERHANG PRESSURE	ZONE (4)	WALLS -	INTERIOR	
			11,2001,2	10 SQ. FT.	25.9	-28.1	
ZONE (1)	R	ROOF - INTERIO		50 SQ. FT.	24.7	-26.9	
				200 SQ. FT.	23.2	-25.4	
10 SQ. FT.	19.3 -34.7		-41.6	500 SQ. FT.	22.0	-24.2	
20 SQ. FT.			-41.1	ZONE (5)	WALLS -	CORNER	
50 SQ. FT.	16.0 -25.5		-40.5	10 SQ. FT.	25.9	-34.7	
100 SQ. FT.	16.0 -21.5		-40.0	50 SQ. FT.	24.7	-32.4	
ZONE (2e)	ROOF — INTERIOR EDGE			200 SQ. FT.	23.2	-29.3	
10 SQ. FT.	17.7 –47.9		-53.7	500 SQ. FT.	22.0	-26.9	
20 SQ. FT.	16.0	-42.8	-51.4	NOTE:			
50 SQ. FT.	16.0	-36.1	-48.4	FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOADS MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH			
100 SQ. FT.	16.0	-31.0	-46.2				
ZONE (2r)	ROOF	- INTERIOR R	RIDGE	THE LOWER EFFECTIVE AR			
10 SQ. FT.	17.7	-47.9	-53.7	T LATERAL WIND RESISTING	SYSTEM HAS BEEN		
20 SQ. FT.	16.0	-42.8	-51.4	DESIGNED FOR THE BUILDING AS A WHOLE			
50 SQ. FT.	16.0	-36.1	-48.4	(APARTMENTS OR CONDOS PER UNIT (TOWNHOMES).) NOT INDIVIDUAL		
100 SQ. FT.	16.0	-31.0	-46.2	TEN ON (TOWNTOMES).			
ZONE (3)	ROOF - CORNER EDGE						
10 SQ. FT.	17.7	-47.9	-64.3				
20 SQ. FT.	16.0	-42.8	-57.1				
50 SQ. FT.	16.0	-36.1	-47.5				
100 SQ. FT.	16.0	-31.0	-40.2				

4. <u>EARTHWORK FOR STRUCTURES</u>

- 4.1. ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF ON UNDISTURBED SOILS OR COMPACTED ALL NECESSARY TESTING, VERIFY THE BEARING CAPACITY OF THE SOILS, AND MAKE RECOMMENDATIONS FOR SITE PREPARATION.
- 4.4. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, ALL SOIL BELOW SLABS ON GRADE AND FOOTINGS SHALL BE COMPACTED TO A DEPTH OF 12 INCHES AT OPTIMUM MOISTURE CONTENT TO 95% OF THE MODIFIED PROCTOR, ASTM D1557. FILL SHALL BE PLACED AND COMPACTED IN LIFTS NO GREATER THAN 12 INCHES.

5. SLAB ON GRADE

- 5.1. REFER TO GEOTECHNICAL REPORT FOR SUB-GRADE PREPARATION MORE THAN 12 INCHES BELOW BOTTOM OF SLAB.
- 5.2. ABOVE SUB-GRADE, USE FILL CONTAINING NOT MORE THAN 12% PASSING #200 SIEVE AND MAXIMUM 1"Ø. COMPACT TO A DENSITY OF 95% OF THE MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.
- 5.3. ALL INTERIOR AND EXTERIOR SLABS ON GRADE SHALL BE A MINIMUM OF 4 INCHES THICK REINFORCED WITH 6x6 W1.4 x W1.4 WELDED WIRE MESH PLACED ON 6 MIL POLYETHYLENE SHEETING, UNLESS OTHERWISE NOTED IN THE
- 5.4. UNLESS OTHERWISE NOTED IN THE PLANS, PROVIDE CRACK CONTROL JOINTS AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQUARE FEET IN ALL SLABS ON GRADE. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE. ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.
- 5.5. SEE THE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE DEPRESSIONS AND OTHER REQUIREMENTS.

STRUCTURAL GENERAL NOTES

6. <u>FORMWORK</u>

- 6.1. DESIGN, ERECTION AND REMOVAL OF FORMWORK, AND SHORING AND RESHORING IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 6.2. CONSTRUCTION, ERECTION, AND REMOVAL OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 301 AND 347.

- 7.1. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL CONFORMING TO ASTM A615. GRADE 60. WITH THE FOLLOWING MINIMUM SPLICE LENGTH.
- 7.1.1. CONCRETE REINFORCEMENT = SEE PROVIDED LAP SCHEDULE
- 7.1.2. MASONRY REINFORCEMENT = 48 BAR DIAMETERS U.N.O.
- PROVIDE ADDITIONAL HORIZONTAL CORNER BARS TO MATCH MAIN HORIZONTAL REINFORCING STEEL AT ALL BEAMS, OR 9.9. ALL TRUSS TOP CHORD FRAMING MEMBERS IN CONTACT WITH THE METAL DECK SHALL BE 18 GAUGE (0.0451") MIN. WALL INTERSECTIONS, CORNERS AND OTHER CONCRETE DIRECTIONAL CHANGES, INCLUDING FOOTINGS.
- 7.3. ALL BENDS, AND 90° AND 180° HOOKED BARS SHALL BE FABRICATED IN ACCORDANCE WITH ACI AND AS INDICATED IN THE STANDARD DETAILS.
- REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS.
- WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A 1064. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICE TWO CROSS WIRES PLUS TWO INCHES.

ZONE 5

SLAB ON GRADE

- 7.1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301 AND 318 AND CRSI STANDARDS.
- 7.2. PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF: FOUNDATIONS 3,000 PSI NW 3,000 PSI NW
- 7.3. ALL CONCRETE SHALL BE NORMAL WEIGHT (NW), U.O.N. WITH A DESIGN UNIT WEIGHT OF 145 PCF.
- 7.4. CONTRACTOR SHALL MAKE SETS OF FOUR ACCEPTANCE CYLINDERS FOR STRENGTH TESTING FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED. CYLINDERS SHALL BE MADE IN ACCORDANCE WITH ASTM C31 AND C172. TESTING SHALL BE PERFORMED BY AN ACI CERTIFIED TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF ANY TEST NOT MEETING THE REQUIREMENTS OF THE SPECIFIED TESTS. COPIES OF REPORTS DOCUMENTING THE TEST RESULTS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE AVAILABLE UPON REQUEST.
- 7.5. PROVIDE COVER OVER REINFORCING STEEL AS FOLLOWS:

CAST AGAINST & EXPOSED TO EARTH/WEATHER	3"
EXPOSED TO EARTH/WEATHER	
#6 THROUGH #18 REBAR	2"
#5 REBAR, W31/D31 WIRE OR SMALLER	1-1/2"
NOT EXPOSED TO EARTH/WEATHER	
SLABS, WALLS, JOISTS	
#14 AND #18 REBAR	1-1/2"
#11 REBAR AND SMALLER	3/4"
BEAMS AND COLUMNS	
REINF. TIES. STIRRUPS. SPIRALS	1-1/2"

- 7.6. CURE ALL CONCRETE SURFACES FOR A PERIOD OF SEVEN DAYS UNTIL AVERAGE COMPRESSIVE STRENGTH HAS REACHED 70% OF THE SPECIFIED 28 DAY STRENGTH. CURING SHALL BE BY PONDING, MOIST CURING WITH SAND OR ABSORPTIVE MATS KEPT CONTINUOUSLY WET, CONTINUOUS APPLICATION OF STEAM (NOT EXCEEDING 105°F) OR MIST SPRAY, WATERPROOF CURING PAPER. OR LIQUID MEMBRANE FORMING CURING COMPOUND. SELECTION OF CURING METHOD SHALL BE COMPATIBLE WITH THE FINISH TO BE APPLIED TO THE CONCRETE SURFACE.
- WHERE REINFORCING STEEL CONGESTION PERMITS. CONDUIT AND PIPES UP TO ONE INCH DIAMETER MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTION 6.3. SPACE AT THREE DIAMETERS ON CENTER. PLACE BETWEEN OUTER LAYERS OF REINFORCING IF CONDUITS ARE SIGNIFICANTLY CONGESTED. ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED DESCRIPTION AND BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR EVALUATION

8. <u>CONCRETE MASONRY</u>

- 8.1. CONCRETE MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM WITH ACI 530.
- 8.2. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY (F'm) SHALL BE A MINIMUM OF 1,500 PSI AT 28
- 8.3. USE 50% SOLID CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1.900 PSI AT 28 DAYS.
- 8.6. USE TYPE S MORTAR IN ACCORDANCE WITH ASTM C270 EXCEPT USE TYPE M MORTAR BELOW GRADE. HEAD AND BED JOINTS SHALL BE 3/8 INCH FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING 1/2 INCH OR MORE INTO CELLS TO BE GROUTED.
- 8.7. USE FINE OR COURSE GROUT CONFORMING TO ASTM C476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI IN 28 DAYS. AGGREGATE SHALL CONFORM TO ASTM C404 FOR GROUT SELECTED, WITH SLUMP OF 8 INCHES TO 11
- 8.8. ALL REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES, OR OTHER ANCHORS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID IN ACCORDANCE WITH ACI 530.1. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING.
- STRUCTURAL FILL. CONTRACTOR SHALL OBTAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO PERFORM 8.9. LAY UP UNITS IN RUNNING BOND UNLESS OTHERWISE NOTED. SAW CUT UNITS WHICH ARE NOT IN MULTIPLES OF 8 INCHES WITH ALL UNITS BEING AT LEAST 8 INCHES LONG. BAND CORNERS BY LAPPING ENDS 8 INCH IN SUCCESSIVE
 - 8.10. USE STANDARD (9 GAGE) HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A 82 IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS 6 INCHES. USE PREFABRICATED CORNERS AND TEES. USE TRUSS TYPE, EXCEPT USE LADDER TYPE IN WALLS WITH VERTICAL REINFORCING. EXTEND JOINT REINFORCING A MINIMUM OF 4 INCHES INTO TIE COLUMNS.
 - 8.11. UNLESS THE HIGH-LIFT GROUTING PROCEDURE IS USED, GROUT LIFT SHALL NOT EXCEED 5 FEET.
 - 8.12. USE ASTM A 615 GRADE 60 REINFORCING STEEL. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.
 - 8.13. AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE 1 #5 x 5'-0" CORNER BAR, WITH 30 INCH LEGS EACH WAY, AT THE EXTERIOR FACE.

9. PRE-ENGINEERED LIGHT GAUGE TRUSSES

- 9.1. SUBMIT STRUCTURAL SHOP DRAWINGS AND ALL CALCULATIONS FOR REVIEW AND APPROVAL. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- 9.2. ALL TRUSSES, BRACING, FASTENERS AND OTHER COMPONENTS SHALL BE GALVANIZED, CONFORMING TO ASTM A653 G60 COATING.
- ALL TRUSS MEMBERS SHALL BE IN ONE PLANE, WITH CONNECTION PLATES ON BOTH SIDES OF THE TRUSS. (TRUSSES WITH MEMBERS SCABBED TO THE SIDES OF CHORDS WILL NOT BE PERMITTED)

- 9.4. SHOP DRAWINGS SHALL INCLUDE A CALCULATION PAGE FOR EACH INDIVIDUAL TRUSS. CALCULATION PAGES SHALL INCLUDE AN ELEVATION OF THE TRUSS, MEMBER SIZES AND GAUGE, LOADING, REACTIONS, TRUSS DEFLECTION, MEMBER BRACING REQUIREMENTS, AND CONNECTION PLATES.
- 9.5. TRUSSES SHALL BE DESIGNED FOR ACTUAL DEAD LOADS FURNISHED BUT SHALL NOT BE LESS THEN A MINIMUM OF 20 PSF, WHICH INCLUDES A BOTTOM CHORD COLLATERAL LOAD OF 10 PSF.
- 9.6. THE TOTAL LOAD VERTICAL DEFLECTION SHALL NOT EXCEED L/240 OR 1½"
- 9.7. ERECTION BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR
- 9.8. TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURE'S REGISTERED PROFESSIONAL ENGINEER AND INDICATED ON THE SHOP DRAWINGS.
- 9.10. AT ALL VALLEY AND RIDGE CONDITIONS, PROVIDE A 6"x16 GA CONTINUOUS BENT PLATE FASTENED TO EACH INTERSECTING TRUSS WITH 2-#10 SELF DRILLING SCREWS (PER TRUSS) U.N.O.
- 9.11. ALL REPAIRS OR MODIFICATIONS OF THE TRUSSES SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURER'S ENGINEER.
- 9.12. DURING AND AFTER ERECTION, TOUCH UP ANY DAMAGE TO GALVANIZED SERFACES WITH TWO COATS OF ZINC-BASED TOUCHUP COATING: "ZRC COLD GALVANIZING COUPOUND" MANUFACTURED BY XRC WORLDWIDE. TOUCH UP SHALL INCLUDE ALL CUTS OF MEMBERS AND DRILLED HOLES FOR FASTENERS

10. METAL ROOF DECK

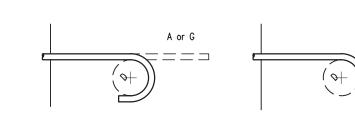
10.1. METAL ROOF DECK SHALL BE GALVANIZED STEEL DECK WITH THE FOLLOWING MINIMUM PHYSICAL PROPERTIES:

TYPE	WIDE RIB
DEPTH	1½ INCH
GAUGE	22 (0.029
STEEL YIELD STRENGTH	33 KSI
MOMENT OF INERTIA	0.153 IN⁴
SECTION MODULUS	0.186 IN ³

- 10.2. ALL STEEL DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH WITH THE STEEL DECK INSTITUTE 10.3. ALL DECK SHALL BE CONTINUOUS WITH A MINIMUM OF THREE SPANS AT MINIMUM.
- 10.4. ALL DECK SHALL BE FABRICATED FROM GALVANIZED SHEETS CONFORMING TO ASTM A653, CLASS G60 COATINGS.
- 10.5. CONNECT METAL DECK TO STRUCTURAL STEEL BEAMS WITH #12 TEK SCREWS AT 12 INCHES ON CENTER FOR ALL BEAMS WITHOUT HEADED STUDS WELDED THROUGH THE DECK. PROVIDE (1) #10 SIDELAP FASTENERS FOR ALL SPANS.

	R	EBAR LA	P SPLICE	LENGTH	HS	
BAR SIZE	$f'_c = 3$,000 PSI	$f'_{c} = 4$.000 PSI	$f'_{c} = 5$,000 PSI
DAR SIZE	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	16"	21"	14"	18"	13"	17"
#4	22"	28"	19"	25"	17"	22"
#5	27"	36"	24"	31"	21"	28"
#6	33"	43"	28"	37"	25"	33"
#7	48"	62"	42"	54"	37"	48"
#8	55"	71"	47"	62"	42"	55"
#9	62"	80"	54"	70"	48"	62"
#10	70"	90"	60"	78"	54"	70"
#11	77"	100"	67"	87"	60"	78"

REBAR LAP SPLICE NOTES: . CLASS B SPLICES SHALL BE PROVIDED FOR ALL COLUMN REINFORCING STEEL. CLASS A SPLICES ARE ALLOWED FOR CONTINUOUS REINFORCING STEEL IF NO MORE THAN 50% OF THE STEEL IS LAPPED AT THE SAME LOCATION.



<u>180° HOOK</u>	<u>90° HOO</u>

	STD	. HOOK [DIMENSI	SNC	DEVE	OP. LEN	IGTHS	
BAR SIZE	PIN DIAM.	180°	H00K	90° HOOK	CONC. CO	MPRESSIVE :	STRENGTH	
DAN SIZE	D	A or G	J	A or G	3,000 PSI	4,000 PSI	4,000 PSI	
#3	21/4"	0'-5"	0'-3"	0'-6"	6"	6"	6"	
#4	3"	0'-6"	0'-4"	0'-8"	8"	7"	6 "	
# 5	3¾"	0'-7"	0'-5"	0'-10"	10"	9"	8"	
#6	4½"	0'-8"	0'-6"	1'-0"	12"	10"	9*	
#7	51/4"	0'-10"	0'-7"	1'-2"	14"	12"	11"	
#8	6"	0'-11"	0'-8"	1'-4"	16"	14"	12"	
#9	9½"	1'-3"	0'-11¾"	1'-8"	18"	15"	14"	
#10	10¾"	1'-5"	1'-1¼"	1'-10"	20"	17"	15"	
#11	12"	1'-7"	1'-2¾"	2'-1"	22"	19"	17"	

REBAR STANDARD HOOK NOTES: D = FINISHED BEND DIAMETERS.

REFER TO ACL 315 FOR ALTERNATE BEND PATTERN DIMENSIONS AND REQUIREMENTS. ASTM A767 REQUIRES THAT BARS BENT COLD PRIOR TO HOT DIP GALVANIZING MUST BE FABRICATED TO AMINIMUM BEND DIAMETER EQUAL TO 7 INCHES FOR #7 BAR AND 8 INCHES FOR #8 BAR.

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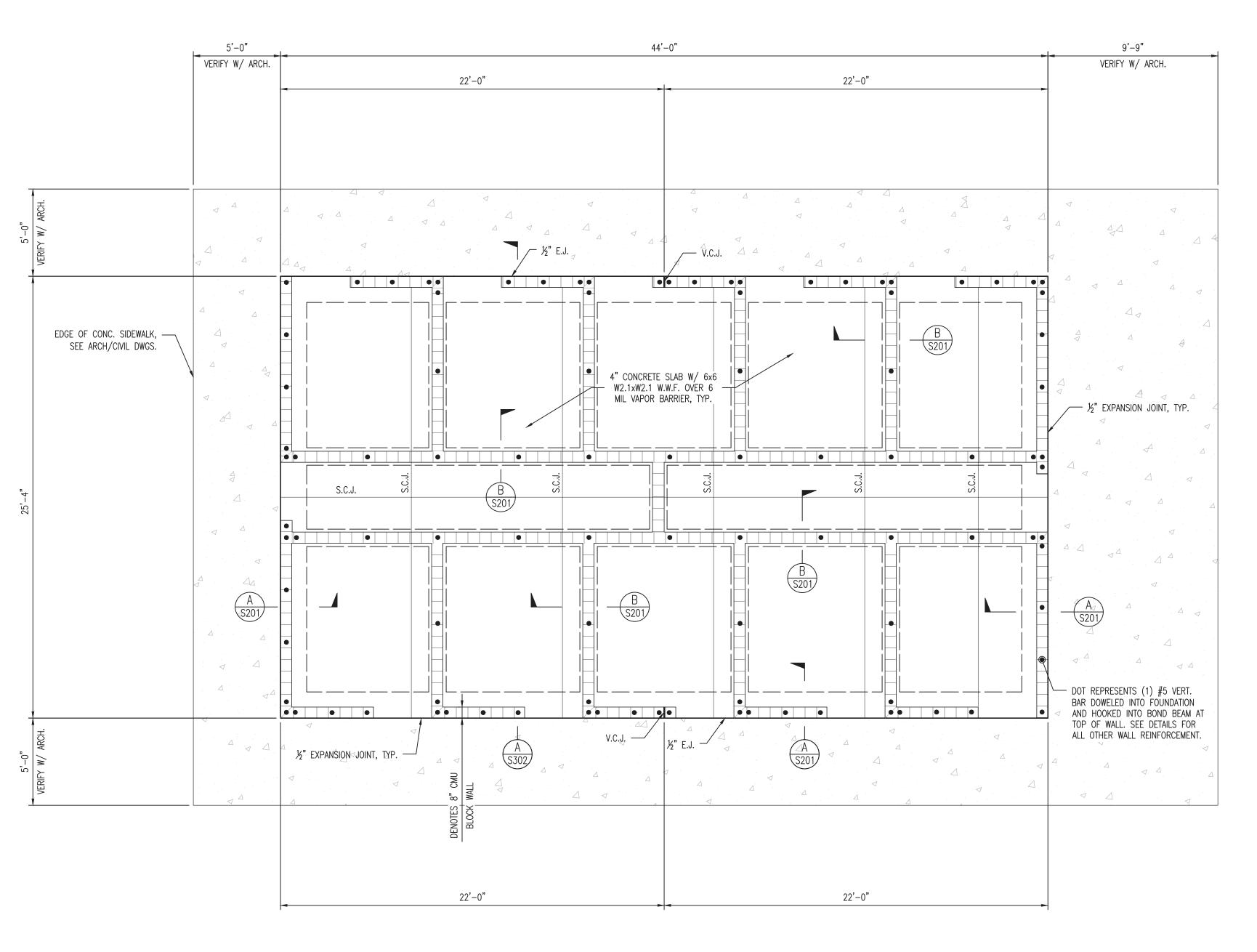
PATRICK M. McKEE, P.E.

KEVER McKEE ENGINEERIN FLORIDA PE No. 63122

SHEET NO.

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FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

NORTH

NOTES FOR FOUNDATION AND FLOOR PLANS: (UNLESS INDICATED OTHERWISE):

1. ALL ELEVATIONS ARE RELATIVE TO AN ASSUMED FINISHED FLOOR ELEVATION OF 0.00'. VERIFY ACTUAL ELEVATION WITH CIVIL DRAWINGS.

2. ALL WALLS ON FOOTINGS ARE REINFORCED, LOAD BEARING WALLS, SEE PLAN AND SEE PLAN AND MASONRY DETAILS ON SHEET S401.

3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS FOR C.J.'S ALIGNED WITH FACE OF WALLS. U.N.O., ALL OTHER C.J.'S SHALL BE EQUALLY SPACED.

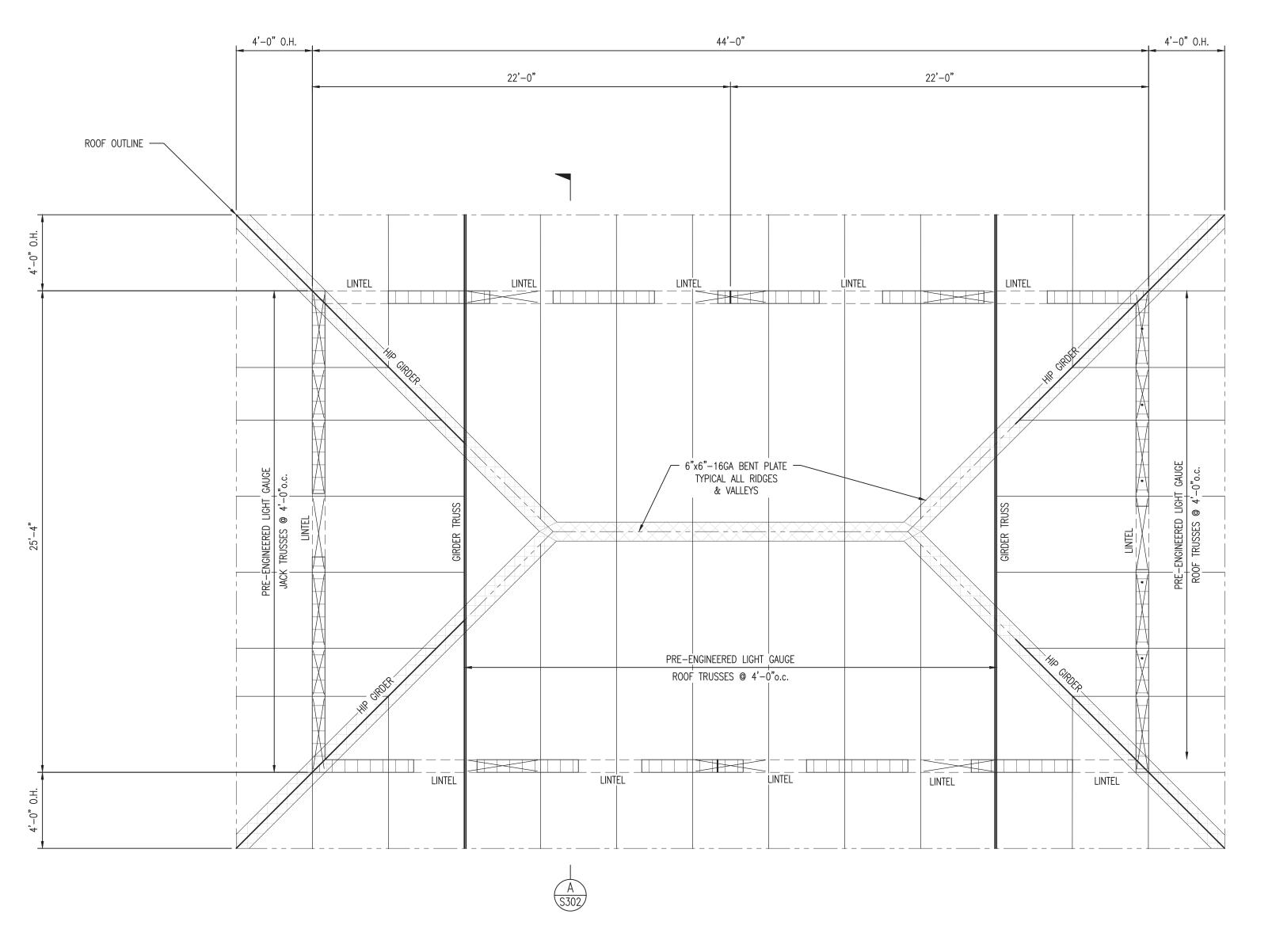
4. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR DETAILS AND EXACT LOCATIONS OF FLOOR RECESSES, FLOOR DRAINS AND OTHER FEATURES.

ICHETUCKNEE SPRINGS STATE PARK 12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038	<u> </u>	FOUNDATION PLAN
	SHEET TITLE	
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PATRICK M. McKEE, P.E. KEVER McKEE ENGINEERING FLORIDA PE No. 63122

> ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

CONTRACT DOCUMENTS

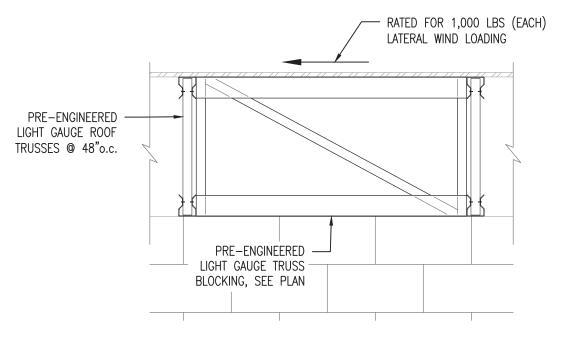


ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

PRE-ENGINEERED TRUSS BLOCKING DETAIL A S201

NOTES FOR ROOF FRAMING PLAN:

- 1. INDICATES PRE-ENGINEERED LIGHT GAUGE TRUSS BLOCKING LOCATION. SEE DETAIL A/S201
- 2. "LINTEL" DENOTES PRE—CAST LINTEL. SEE LINTEL SCHEDULE ON SHEET S401 FOR SIZING, UNLESS NOTED OTHERWISE ON PLAN.

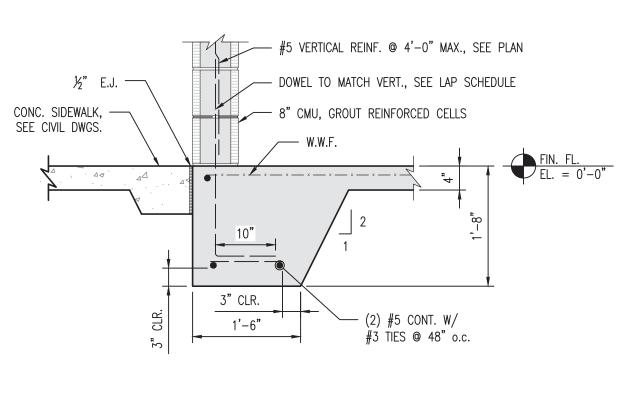


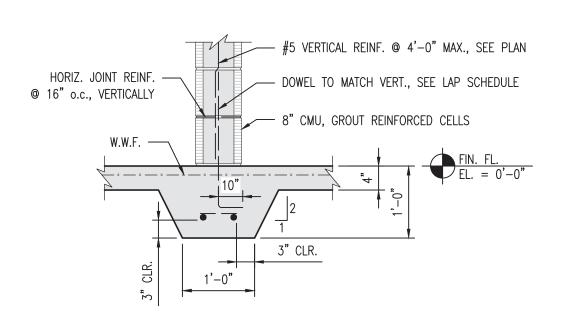
ROOF FRAMING PLAN
PROJECT TITLE ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

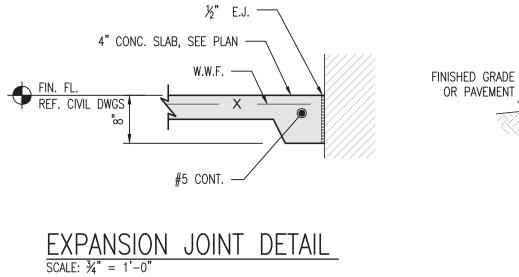
100% CONTRACT DOCUMENTS

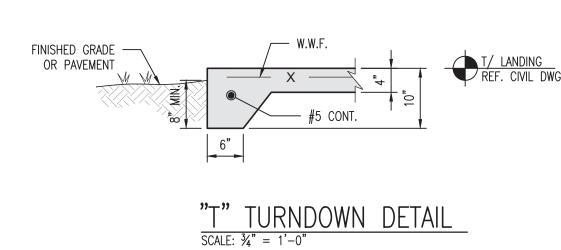
PATRICK M. McKEE, P.E. KEVER McKEE ENGINEERING FLORIDA PE No. 63122

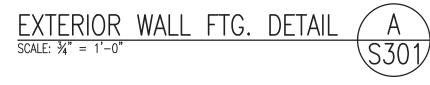
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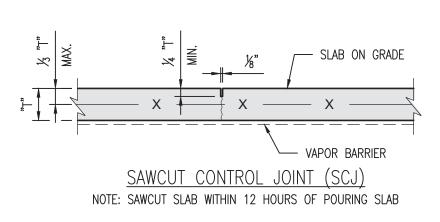












NOTES:

1. REFER TO ARCHITECTURAL FLOOR PLANS FOR JOINT LAYOUT AT EXPOSED FLOORS. AT ALL OTHER LOCATIONS, LAY OUT JOINTS WITH MAXIMUM SPACING OF 12'-0" ON CENTER AND A MAXIMUM LENGTH TO WIDTH RATIO FOR JOINT SPACING OF 2:1.

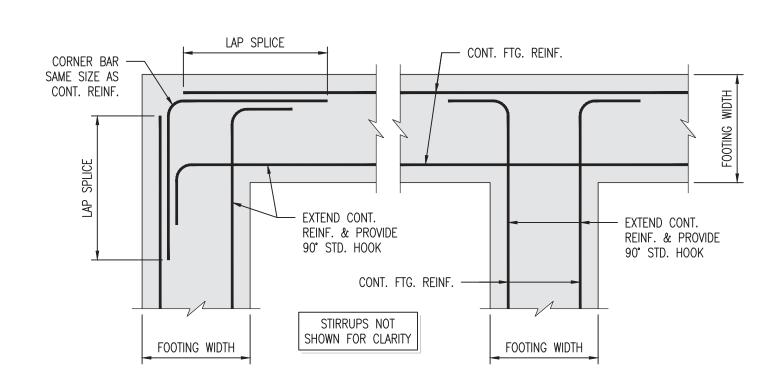
2. RIPS, TEARS, AND HOLES IN VAPOR BARRIERS SHALL BE REPAIRED PRIOR TO PLACING CONCRETE.

3. ALL SLABS SHALL BE CURED WITH A MOISTURE RETAINING COVER FOR A MINIMUM OF SEVEN DAYS.

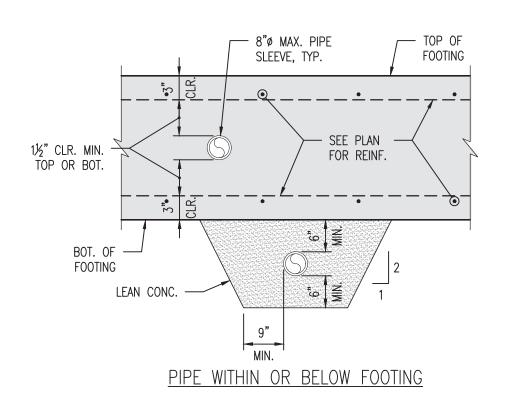
4. ALL JOINTS SHOWN IN PLANS ARE SCHEMATIC. CONTRACTOR SHALL SUBMIT JOINT LOCATION PLAN FOR ARCHITECTURAL APPROVAL.

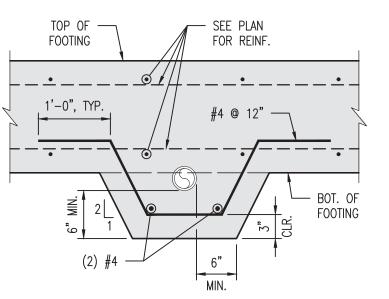
TYP. SLAB ON GRADE DETAILS

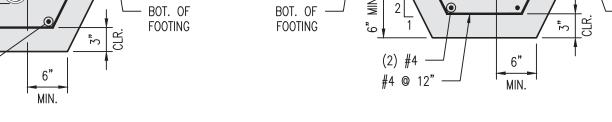
SCALE: 1" = 1'-0"











TYPICAL LAP SPLICE

1'-0". TYP.

PIPE CONFLICTS WITH BOTTOM OF FOOTING

PIPE CONFLICTS WITH FOOTING REINFORCEMENT

FOR REINF.

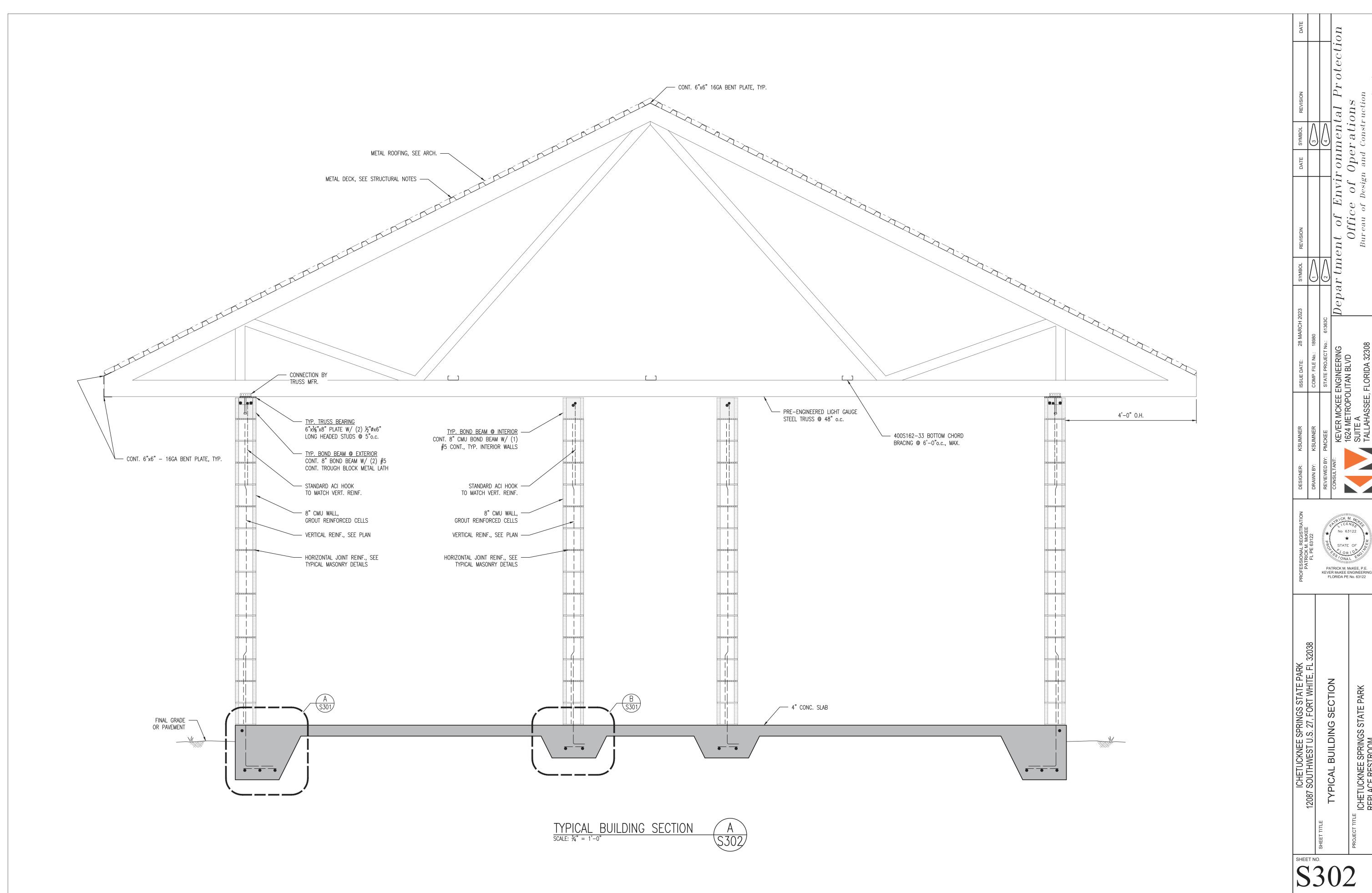
TYP. FTG. PENETRATION DETAIL

SCALE: 1" = 1'-0"

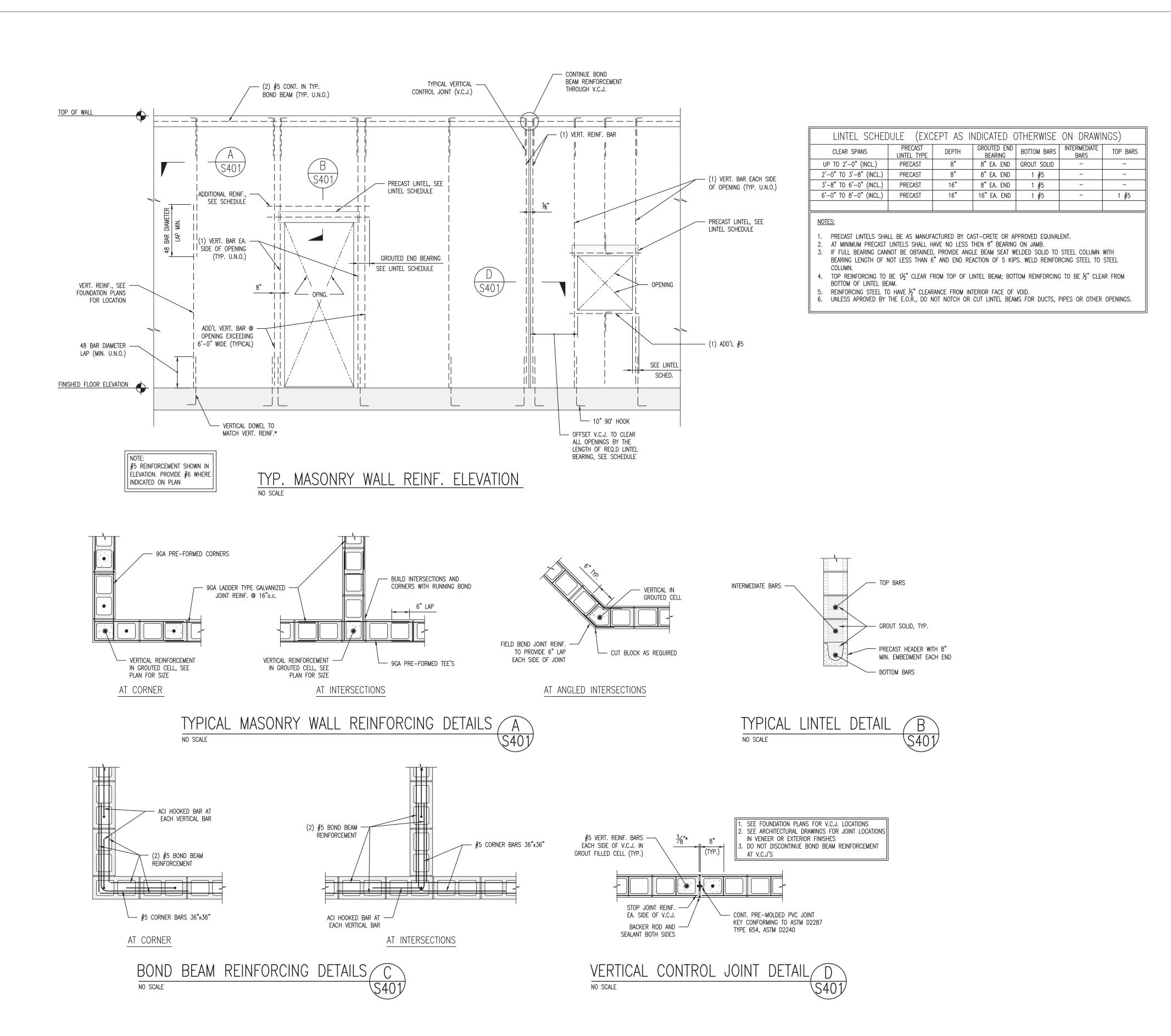
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ISSUE DATE: 28 MARCH 2023	COMP. FILE No.: 18980	STATE PROJECT No.: 61363C	KEVER MCKEE ENGINEERING $Depa$	ILITAN BLVD
DESIGNER: KSUMNER	DRAWN BY: KSUMNER	REVIEWED BY: PMCKEE	CONSULTANT: KEVER MCKEE	1624 METROPOLITAN BLVD
PROFESSIONAL REGISTRATION PATRICK M. McKEE		Thunk PROUNT	No STATE OF THE PARTY OF THE PA	TATE OR ONA I
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FOUNDATION DETAILS	ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM
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100% CONTRACT DOCUMENTS



100% CONTRACT DOCUMENTS



PATRICK M. McKEE, P.E. KEVER McKEE ENGINEERING FLORIDA PE No. 63122 TYPICAL MASONRY DETAILS ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. **S401**

GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.
- 2. ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED AS SPECIFIED BY THE PARK SERVICE BIOLOGIST.
- 3. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH THE WORK. CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THAT EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS. AVAILABLE RECORDS. AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE IS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS.
- 6. THE CONTRACTOR SHALL SOLID SOD ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN
- 7. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT.
- 8. ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.
- 9. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
- 10. PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.
- 11. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.
- 12. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, EXCAVATION, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF EMBANKMENT AND BACKFILL. THE PLAN ALSO WILL DETAIL THE EROSION CONTROL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND WILL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES.
- 13. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND:

FDEP, BUREAU OF SURVEY AND MAPPING, MS 105 3900 COMMONWEALTH BLVD. TALLAHASSEE. FLORIDA 32399 (850) 245-2606 (OFFICE) (850) 245-2645 (FAX)

- 14. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
- 15. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE TREES IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.
- 17. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED BY THE

EROSION CONTROL NOTES:

- 1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).
- 3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN
- 4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.

GENERAL REQUIREMENTS

Comply with the requirements of the Agreement between the Department of Environmental Protection and the Contractor for the ICHETUCKNEE

Summary of work:

This Work consists of all work necessary to construct Day Use Restroom at Gilchrist Blue Springs State Park as shown on the 100% Construction Documents titled Department of Environmental Protection Day Use Restroom by Barnett Fronczak Barlowe & Shuler Architects. The Work includes, but is not limited to, sitework, site utilities, cast-in-place concrete, masonry walls, light gauge metal trusses, plywood sheathing, standing seam metal roofing, tubular skylights, fiber-cement soffits and trim, aluminum louvers, abuse resistant fiber cement panels, hollow metal doors and frames, finish hardware, toilet partitions, toilet accessories, sealants and caulking, painting, signage, new plumbing fixtures and accessories, exhaust systems, lighting and electrical work.

Comply with requirements of applicable product or trade standards, except when more rigid requirements are specified or are required by applicable codes. Substitutions are allowed for all products and materials specified below, unless otherwise noted.

Substitutions: Adhere to the substitution requirements of FDEP.

The following specifications are general in nature and apply only where applicable, as shown on the Drawings.

DEMOLITION AND SITE WORK

Protection of Existing: Provide protection for all existing elements in the Project and in the Work Area. Provide dust and debris containment barriers protecting existing areas as needed. Coordinate location and type of protection with Architect and Site Manager.

Coordinate access and time of work with the Site Manager.

CONCRETE

See Structural Drawings

MASONRY

See Structural Drawings for design loads, foundation notes, design details and general conditions.

Echelon Coastal Oldcastle (813) 255-4737 - 325 North Street - Longwood Florida 32750

Exterior Walls: Basis of Design for masonry wall shall be Echelon Masonry Split Face - Standard Split Face Colors. NOTE: All block sides connected to the door and louver jambs, etc.; will be required to have a smooth face solid color. Interior Walls: Basis of Design for masonry wall shall be Echelon Masonry Smooth Face Finish Solid Color - Standard Smooth Face Solid Colors.

Submit color samples for selection from manufacturer's product line. Submit product literature, certifications, test reports and full size sample(s) of each color specified. Certifications: Concrete blocks for grinding shall conform to ASTM C90. Colored matching or contrasting mortar is available from manufacturer.

Units shall be delivered to the jobsite on wooden pallets. Store pallets on level ground and cover with waterproof covering (e.g., tarpaulins) to protect the blocks from inclement weather. Handle blocks carefully to avoid breakage and damage to the finished surfaces. Protection of Work: Cover walls each day after installation to keep open walls protected and dry. After units are installed they should be protected from damage by other trades performing operations that can stain or damage.

Carefully following manufacturer's instructions, use Custom Masonry Cleaner and Burnished Custom Masonry Cleaner by PROSOCO (dilute 1 part to 3 parts clean water). Available from manufacturer. DO NOT POWERWASH. CAUTION! Never use Muriatic Acid solution or any cleaner with an acid base on units.

Draw blocks from more than one pallet at a time during installation. All exterior mortar shall include manufacturer approved matching water repellent additive added to each batch in the appropriate dosage rates for mortar type (M, S or N) per manufacturer's instructions. See MFG instructions for hot and cold weather construction practices.

Lay units using the best concrete masonry practices. Install only quality units; reject all defective units as defined by ASTM C90. Lay blocks with the faces level, plumb and true to the line strung horizontally at the ground or filled and polished face. Units shall have uniform, 3/8"-wide joints both horizontally and vertically on the finished side of the wall. Tool joints neatly after they are finger-hard to make them straight and uniform. Size and place cut pieces appropriately to maintain consistency and bond. Complete masonry construction using procedures and workmanship consistent with the best

Cutting: Make all unit cuts, including those for bonding, holes, boxes, etc., with motor-driven masonry saws, using either an abrasive or diamond blade. Cut neatly and locate for best appearance. Lay units with full mortar coverage on head and bed joints taking care not to block cores to be grouted or filled with masonry insulation. Tool all mortar joints when thumbprint hard into a concave configuration. Care should be taken to remove mortar from the face of masonry units before it sets. Tuck-point the joints of scored units for proper appearance. All exterior scored units must be tuck-pointed to prevent water penetration, NO RAKE JOINTS.

The faces shall conform to the requirements of ASTM C90 when viewed from a distance of twenty (20) feet at right angles to the wall with normal lighting. Install flashing at locations shown in the plans and in strict accordance with the details and the best masonry flashing practices.

Keep walls clean daily during installation using brushes, rags and the burlap squares supplied on the pallets. Do not allow excess mortar lumps or smears to harden on the finished surfaces. Harsh cleaning methods after walls have been erected will mar the surface of the blocks.

METALS

See Structural Drawings for design loads, foundation notes, design details and general conditions.

Pipe and Tube Railings: Provide aluminum pipe and tube railings as shown on the Drawings. Bend members at changes in direction and weld all connections. Finish shall be Class I clear anodic finish.

Provide 2 inch square aluminum infill panels with 0.2500 "wire, square weave and weighing 0.6 lbs. Per SF. Basis of Design product shall be McNichols Item No. 3793920041 or comparable product acceptable to FDEP.

Contractor is provide shop drawings to architect for approval.

WOOD AND PLASTICS

Rough Carpentry: Provide all wood roof sheathing, grounds, nailers and blocking. Comply with PS 20 "American Softwood Lumber Standard" and PS 1 "U.S. Product Standard for Construction and Industrial Plywood," dressed S4S, 19% max. moisture content. No. 2 grade or better. Install wood grounds, nailers and blocking where required for attaching of other work. Form to shapes required for true level and line of attached work. Coordinate locations with other work involved.

Nails, Wire Brads and staples shall comply with FS FF-N-105 and wood screws shall comply with ASME B18.6.1

Plywood backing panels for electrical panels shall be screwed to supports.

Interior Finish Carpentry: Provide Architectural wood benches and solid surface material countertops as shown on the Drawings.

Provide finish carpentry that complies with AWI premium grade construction. Provide product data, details and shop drawings consisting of dimensioned plans and elevations, large scale details, attachment devices and other components. Provide samples of solid surfacing materials and lumber products stained to match Architects sample.

For countertops, provide homogeneous solid surfacing sheets by Avonite, Formica, or Wilsonart, 3/4" thick bonded to plywood with manufacturer's recommended adhesive. Provide 3/4" solid surfacing backsplashes (Architect to select color).

THERMAL AND MOISTURE PROTECTION

Building Insulation: Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II, minimum density of 2.0 lb/cu ft (32kg/cu m)

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- Icynene (Basis of Design), BASF Corporation, Certain Teed Corporation, Dow Chemical Company or other Architect approved product. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- Flame-Spread Index: 25. Smoke-Developed Index: 450 or less.
- Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly. a. Provide a 6" average thickness (R=38) of foam.

Masonry Insulation: Vermiculite loose insulation - Basis of Design: Zonolite Masonry insulation.

Weather Barriers: Provide Butyl Rubber, flexible underlayment and flashing under all surfaces of Standing Seam Sheet Metal Roofing panels. Material shall be composite, self adhesive product such as Grace Ice and Water Shield-HT, Polyglass Polystick TU Plus, Tamko TW Metal and Tile Underlayment, Atlas Weathermaster Polyseal, Carlisle WIP 300HT, Dewitt Products Lite N Smooth, Owens Corning Weatherlock, MFM Ultra HT Wind & Water, Mid-States Asphalt Quick Stick HT, Resisto/Soprema Lastobond Shield HT, TARCO Leak Barrier PS200HT, Titanium PSU-30, or other product approved in writing by FDEP.

Standing-Seam Metal Roof Panels: Provide standing seam metal roof panels as shown on the Drawings. Provide Vertical Rib, Seamed-Joint metal roof panels formed with vertical ribs at panel edges and a flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of the panels, engaging the opposite edge of adjacent panels, and mechanically seaming panels

Acceptable systems are the Englert Series S2000 and Petersen Snap-Clad system.

Provide 0.040 inch thick aluminum sheet with snaplock seams. Panels shall coated with the manufacturers standard fluoropolymer 2-coat system with topcoat containing not less than 70% polyvinylidene fluoride resin by weight, complying with AAMA 2604. Panel coverage shall be 16 inches with a panel height of 1.75 inches.

Examine substrates for compliance with requirements of manufacturer. Provide self-adhering underlayment prior to installation of panels. Install metal roof panels, trim and accessories to comply with manufacturer's written installation instructions applicable to products and applications indicated.

Fiber-Cement Wood Trim and Soffits: Provide ASTM C 1186, Type A, Grade II, noncombustible fiber board by James Hardie Building Products, Inc. or comparable product acceptable to the Architect. Provide soffit materials not less than 5/16" thick, smooth textured to receive paint. Provide 25 year Special Warranty to repair or replace products that fail in materials or workmanship

Provide fiber-cement wood trim and non-vented soffits, accessories, starter strips, edge trim, outside and inside corner strips and other items as manufactured by fiber cement manufacturer for configuration as shown on the Drawings. Provide aluminum flashing at windows and door heads. Provide ribbed bugle-head screws of sufficient length to penetrate a minimum of 1 inch into substrate.

Examine substrates for compliance with requirements of manufacturer. Install non-vented soffits, trim and accessories to comply with manufacturer's written installation instructions applicable to products and applications indicated.

Sheet Metal Flashing and Trim: Provide sheet metal flashing and trim to withstand wind loads, structural movement, thermally induced movement and exposure to weather

Fabricate sheet metal flashing and trim to comply with recommendations of SMACNA's "Architectural Sheet Metal Manual" that apply to the design, dimension, metal, and other characteristics of the item indicated. Fabricate cleats and attachment devices from same material as sheet metal component being anchored or from compatible, noncorrosive metal recommended by sheet metal manufacturer.

Fabricate all flashing materials from aluminum. Flashing thickness shall be 0.032 inch minimum.

Sealants and Caulking: Provide Nonstaining, Silicone sealant, single component for all exterior applications. Joint sealant shall be neutral curing, nontraffic to comply with ASTM C 920, Type S, Grade NS, Class 50.

Provide mildew-resistant joint sealants at all joints between plumbing fixtures and adjoining walls, floors and counters and all tile control and expansion

Provide Acrylic latex joint sealants at perimeter joints between interior wall surfaces and frames of interior doors and other joint as indicated on the

Mildew-resistant joint sealants shall be Dow Corning 786-M White or comparable product approved by the Architect

Acrylic latex joint sealants shall be Tremco Incorporated Tremflex 834 or comparable product approved by the Architect

Silicone joint sealants shall be Dow Corning 795 or comparable product approved by the Architect.

Sealants Below Grade: SONOLASTIC® POLYSULFIDE SEALANT or equal. High-performance electrometric nonsag sealant. Multi-component, highperformance, low-modulus polysulfide sealant. Electrometric properties allow +25% joint movement. Withstands constant water immersion. No degrade under limited chemical exposure.

Water Repellent: Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II Water Repellent Specification or equal. A clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials and protecting them from graffiti attacks without altering the natural appearance. Blok-Guard[®] & Graffiti Control II is appropriate for interior and exterior use. Blok-Guard[®] & Graffiti Control II is easy to apply with low-pressure spray, brush or roller, and protects exterior walls exposed to normal weathering.

Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Adhere to mfg techincal specifications for application. Test a minimum 4 ft.by 4 ft. area on each type of masonry. Use the manufacturer's application instructions. Let protective treatment test area cure before inspection. Keep test panels available for comparison throughout the protective treatment project.

DOORS AND WINDOWS

Steel Doors and Frames: Comply with Steel Door Institute "Recommended Specification for Standard Steel Doors and Frames" ANSI A250.8. And ANSI A250.4, Level 3 and Physical Performance Level A (Extra Heavy Duty) Model 1 (Full Flush) for exterior doors. Provide G90 galvanized units in all doors and in areas exposed to moisture. Frames shall be minimum 14 gauge with mitered and welded corners. Provide prime painted finish, manufacturer's standard factory applied coat of rust inhibiting primer complying with ANSI 250.10.

Finish Hardware: Provide door hardware for swinging doors as scheduled on the Drawings.

Hinges shall be Stanley FBB168 Series, US26D 4-1/2 x 4-1/2.

Provide weatherstripping and aluminum thresholds at all exterior doors.

FINISHES

Gypsum Board Assemblies: Provide abuse resistant interior gypsum wallboard as shown on the Drawings.

Interior gypsum wallboard ceiling panels shall be Fiberock Aqua-Tough Abuse Resistant gypsum panels as manufactured by United States Gypsum, 5/8" thickness installed on 3/4" furring channels spaced a maximum 16" on center. Screw attach ceiling panels to metal furring. Joint treatment materials shall comply with ASTM C 475 and shall be setting type sandable compound for taping and all purpose joint compound as recommended by the manufacturer for finishing.

Painting: The Scope of Work includes painting all exposed interior and exterior surfaces. Painting includes field painting of exposed bare and covered pipes and ducts, hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment.

Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts and labels

Examine substrates, areas and conditions under which painting will be performed for compliance with paint application requirements. Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition. Provide barrier coats over incompatible primers or remove and reprime. Provide block fillers, primers, undercoats and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied. Provide the following finish systems. Paint materials shall be best quality products by Benjamin Moore, or FDEP approved equal:

Gypsum fiber ceiling panels: Provide 2 coats latex egg shell latex enamel over a primer.

Ferrous metal (interior and exterior): Provide 2 coats full Alkyd-Enamel finish over an enamel undercoater and a primer.

Exterior Wood and Fiber Cement Soffits: Provide 2 coats Full-Gloss, Alkyd-Enamel finish over Exterior Alkyd Wood Primer.

Provide Samples, and Color selection palette, for all Finish Materials.

SPECIALTIES

Louvers and Vents: Provide aluminum wall and door louvers as shown on the Drawings. Wall louvers shall be fixed-blade louvers with extruded aluminum frames and blades, 6" deep with a frame and blade thickness not less than 0.081 inch. Provide aluminum louver insect screens on inside face of louver.

Toilet Partitions: Provide solid polymer toilet partitions and privacy screens as delineated on the Drawing. Acceptable manufacturer's are Ampco, Santana or comparable product approved by the Architect. Pilasters shall be floor and ceiling attached. Provide integral hinges from door and pilaster material with exposed metal parts on interior of stall.

Provide combination coat hook, bumper. Provide outswinging doors with second door pull and door stop. Pilaster sleeves shall be one piece molded HPDE secured to pilasters. Wall brackets shall be extruded PVC fastened to pilasters and brackets with tamper proof fasteners.

Toilet Accessories: Provide toilet accessories as delineated on the Drawings. Prior to ordering of accessories, verify with Owner Product designations and operation. Coordinate accessory locations with other Work to prevent interference with clearances required for access by disabled persons, proper installation, adjustment, operation, cleaning and servicing of accessories.

Mirrors shall be warranted for a minimum of 15 years from date of Substantial Completion.

Install accessories according to manufacturer's written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units lever, plumb, and firmly anchored in locations and at heights indicated.

Fire Extinguishers: Provide 5 lb. unit with 3A40BC rating standard. Provide one fire extinguisher in locations shown on the Drawings.

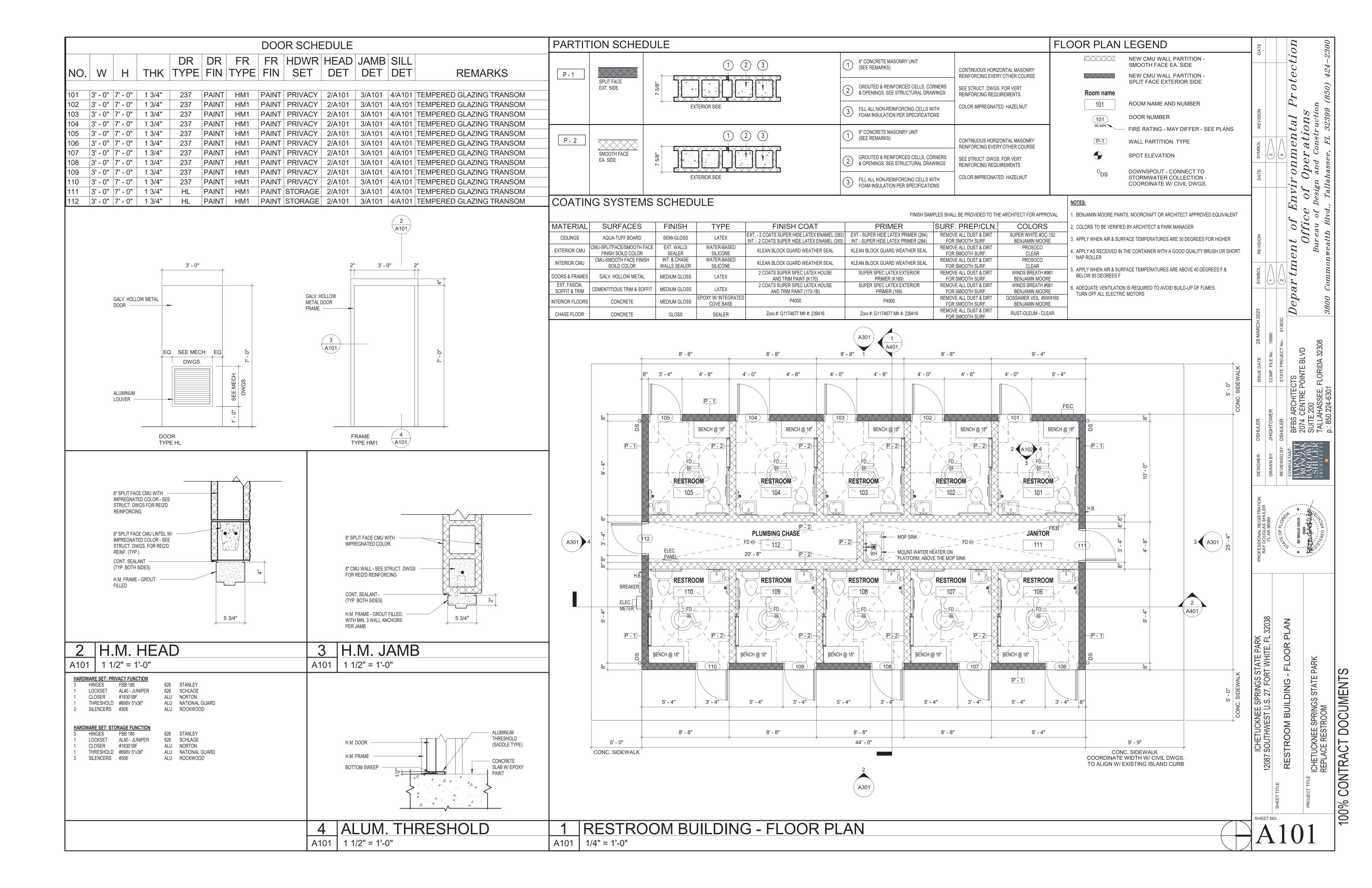
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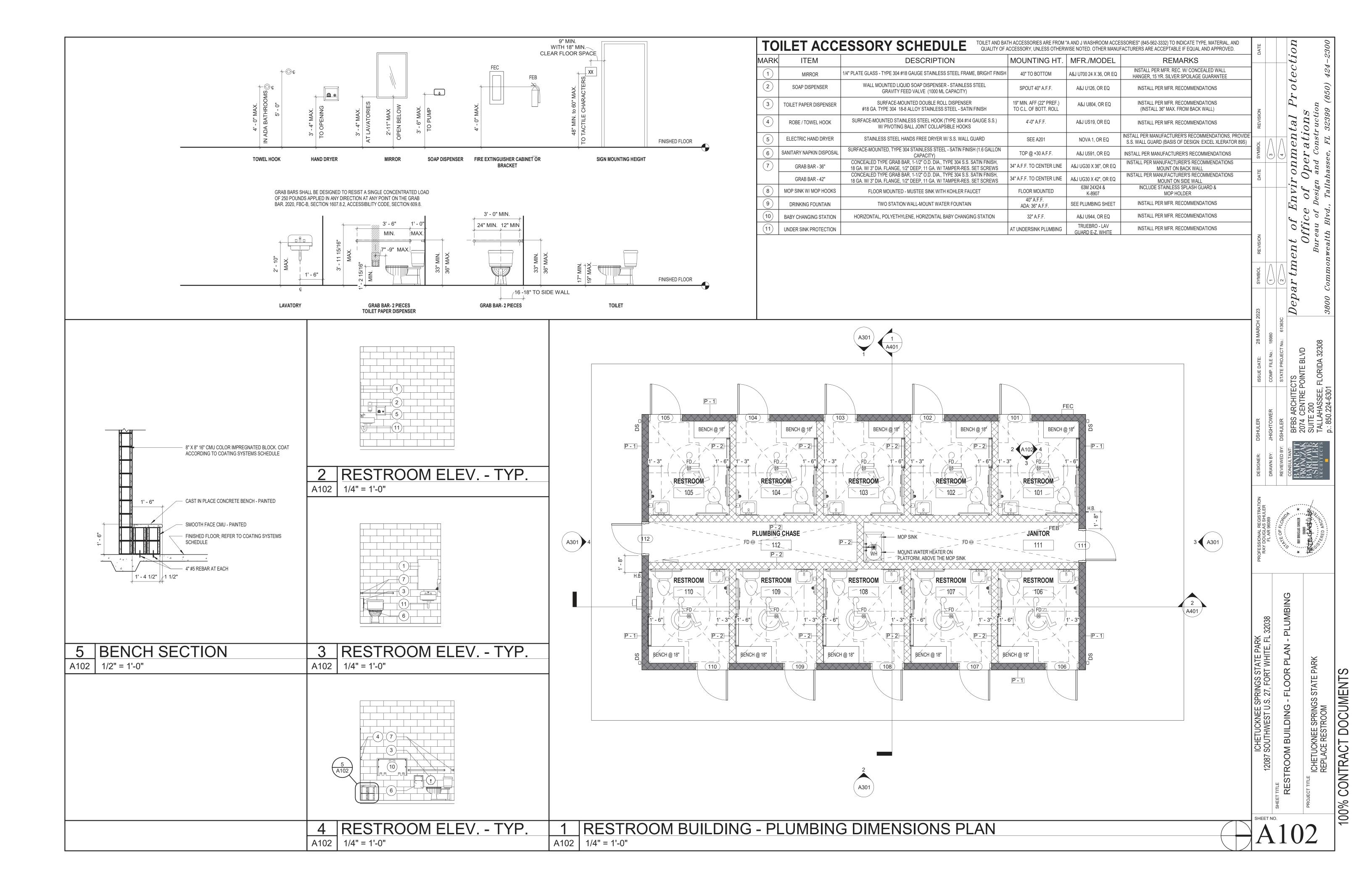


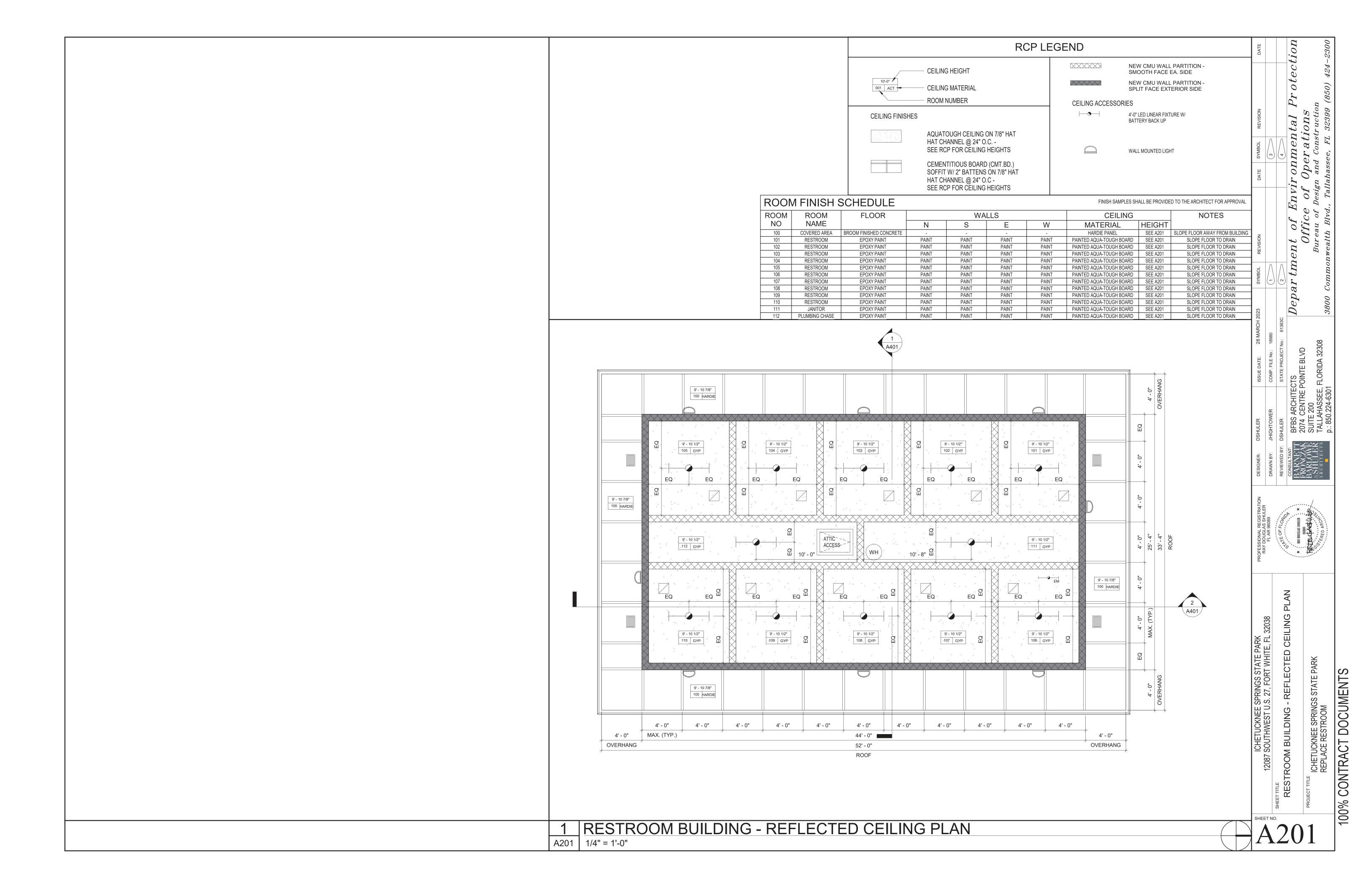
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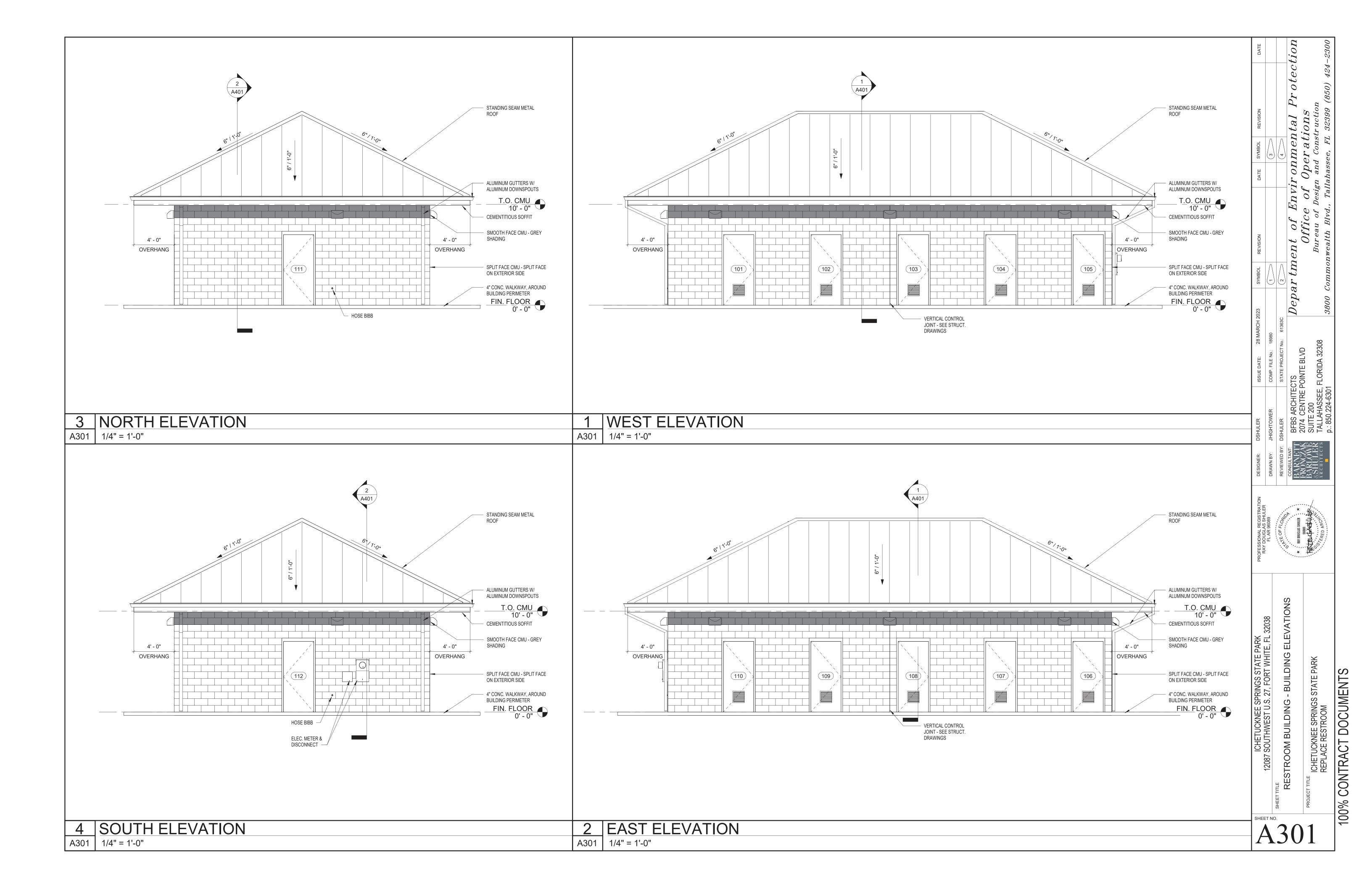
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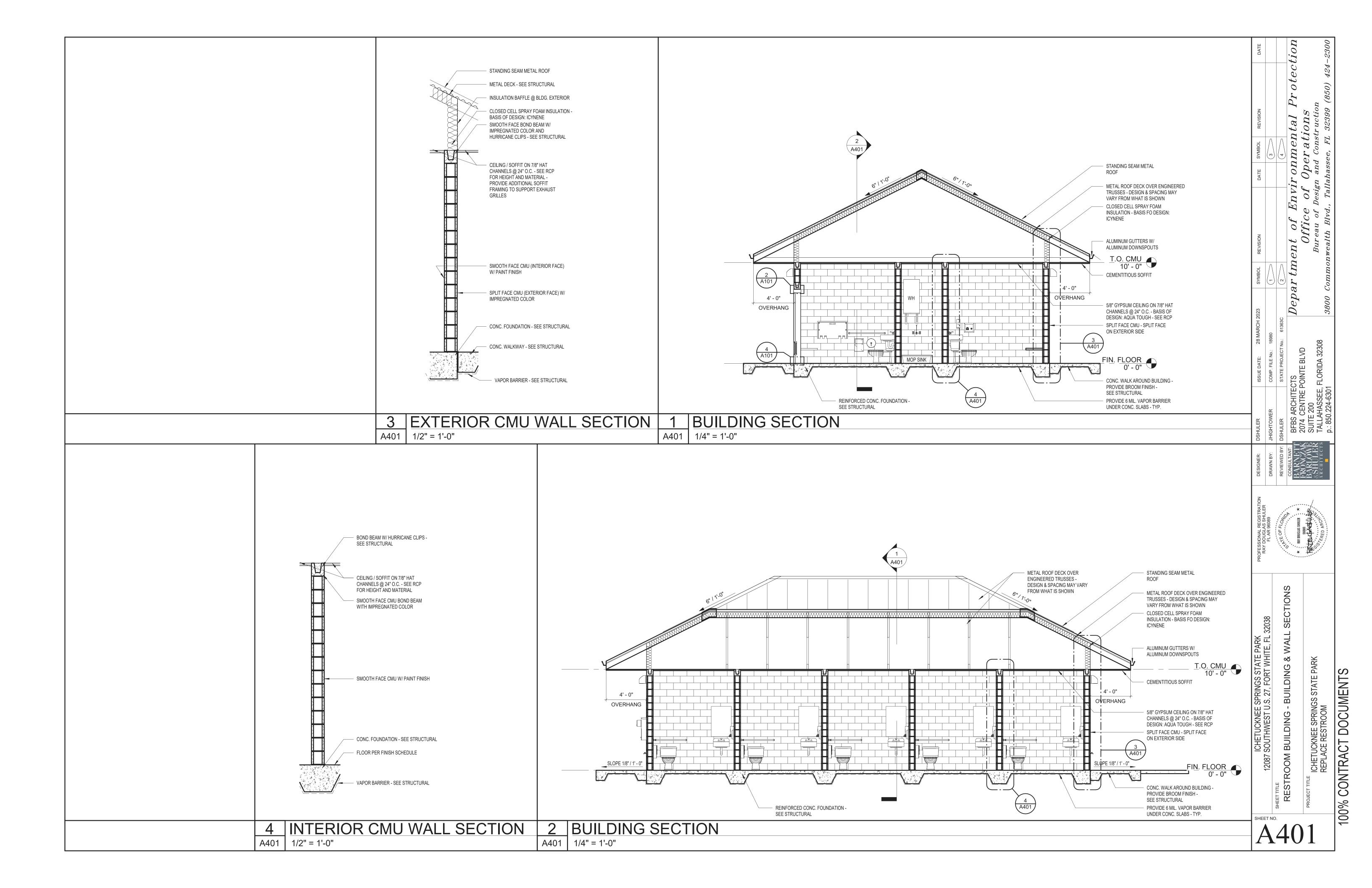
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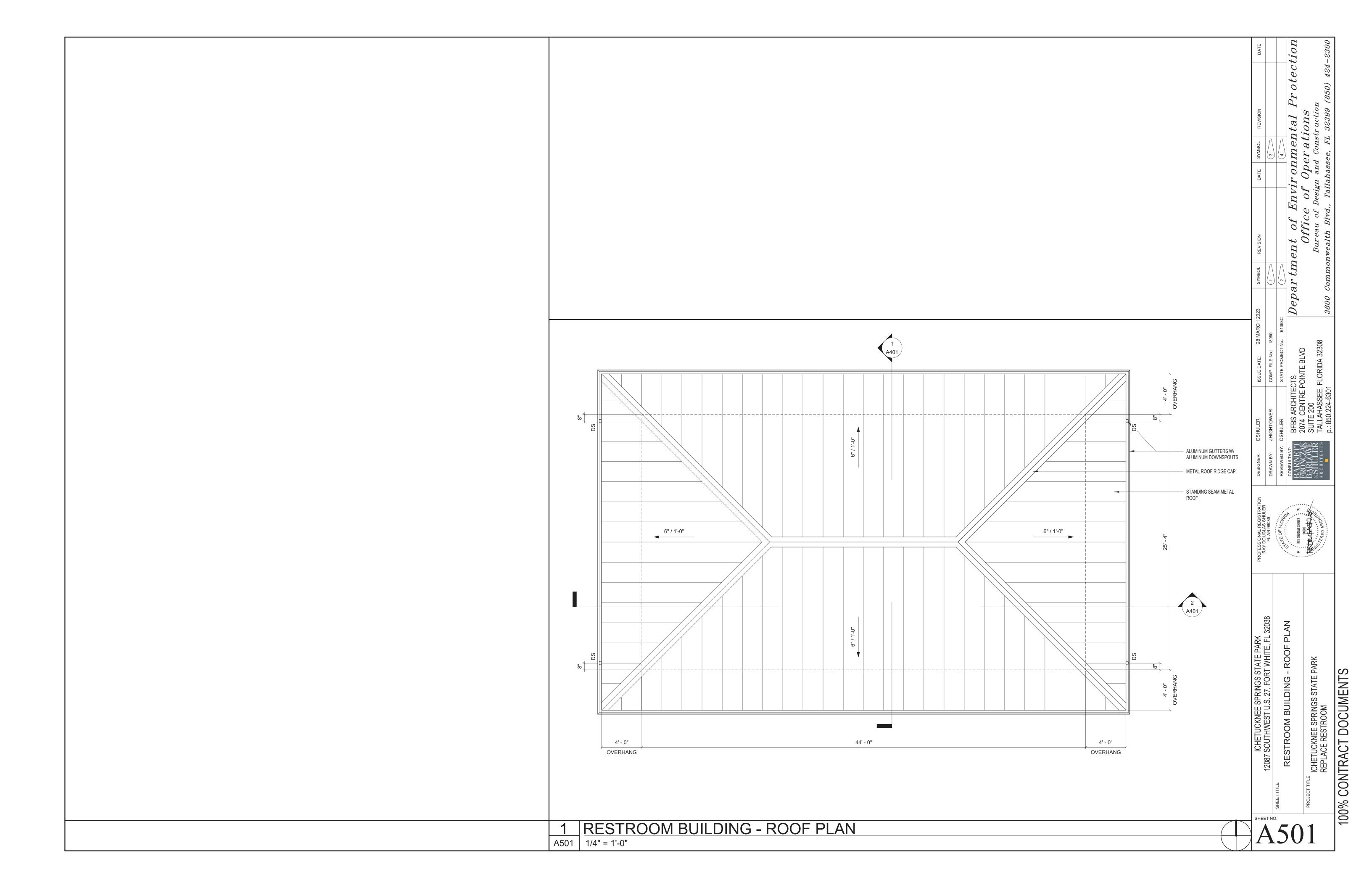












HVAC SPECIFICATIONS

- SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK: ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AND SHALL BE CONSTRUCTED FROM G90 GALVANIZED SHEET STEEL. ALL SEAMS SHALL BE SEALED TO A MINIMUM OF 2" PRESSURE CLASS WITH WATER BASED MASTIC.
- FLEXIBLE DUCT CONNECTORS: FLEXIBLE CONNECTORS SHALL BE LISTED FOR USE. EXTERIOR DUCT CONNECTORS SHALL BE CHEMICAL, UV, AND WEATHER RESISTANT. PROVIDE HEAVY DUTY CONNECTIONS WHERE USED FOR CONNECTIONS TO EXHAUST FANS.
- AIR CONDITIONING SYSTEMS SHALL BE TESTED AND BALANCED UPON INSTALLATION COMPLETION BY A NEBB OR AABC CERTIFIED TEST AND BALANCE AGENT. AGENT SHALL PROVIDE A SIGNED AND SEALED TEST AND BALANCE REPORT TO THE ENGINEER OF RECORD UPON COMPLETION OF TAB ACTIVITIES.
- DIFFUSERS AND GRILLES SHALL BE FROM A SINGLE MANUFACTURER. DIFFUSERS AND GRILLES SHALL BE ALL ALUMINUM CONSTRUCTION AND BE WHITE IN COLOR, UNLESS NOTED OTHERWISE.

CODE REFERENCES

FAN OR PUMP

FBC, BUILDING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, TEST PROTOCOL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, EXISTING BUILDING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2020 SEVENTH EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2014 EDITION
NFPA 70	NATIONAL ELECTRIC CODE, 2017 EDITION
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, 2018 EDITION
NFPA 101	LIFE SAFETY CODE, 2018 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2016 EDITION
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	DESIGN CRITERIA
BUILDING TYPE	GROUP U - UTILITY
CLIMATE ZONE	2A, COLUMBIA COUNTY, FLORIDA
OUTDOOR DESIGN CONDITIONS (SUMMER)	95°F DB, 78°F WB
OUTDOOR DESIGN CONDITIONS (WINTER)	25°F DB
INTERIOR DESIGN TEMPERATURES	72°F HEATING, 75°F COOLING
ENERGY COMPLIANCE METHOD	PERSCRIPTIVE METHOD (TRADE OFF METHOD)
COMMISSIONING	COMMISSIONING IS NOT REQUIRED PER EXCEPTION #1 OF C408.2 OF FLORIDA BUILDING CODE - ENERGY, 2020 (SEVENTH EDITION).
SCOPE OF WORK	THE PROJECT CONSISTS OF A BATHROOM BUILDING. VENTILATION WILL BE PROVIDED BY CEILING MOUNTED EXHAUST FANS AND A ROOF MOUNTED EXHAUST FAN WITH OUTSIDE AIR PROVIDED THROUGH LOUVERS.
	CONTROL & CVMPOL &

CONTROLS SYMBOLS PREMIUM EFFICIENT MOTOR, UNO THERMOSTAT/ TEMPERATURE SENSOR WITH CONTROL WIRING

ABI	BREVIATIONS	DUCT	SYMBOLS
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	FLEXIBLE CANVAS CONNECTION	
AFR AHJ	ABOVE FINISHED ROOF AUTHORITY HAVING JURISDICTION	EXHAUST AIR DUCTWORK UP	X"xY"
BHP CD	AIR HANDLING UNIT BRAKE HORSE POWER CONDENSATE	EXHAUST AIR DUCTWORK DOWN	\[X"xY" \ \ \ \ \ \ \
CFM CU DN	CUBIC FEET PER MINUTE CONDENSING UNIT DOWN	SUPPLY AIR DUCTWORK DOWN	X"xY"
EA EAT ESP	EXHAUST AIR ENTERING AIR TEMPERATURE EXTERNAL STATIC PRESSURE	SUPPLY AIR DUCTWORK UP	X"xY"
FLA GFI GPM	FULL LOAD AMPS GROUND FAULT CIRCUIT INTERRUPTER GALLONS PER MINUTE	RETURN AIR DUCTWORK UP	X"xY"
kW LAT MBH	KILLOWATT LEAVING AIR TEMPERATURE THOUSANDS OF BTU'S PER HOUR	RETURN AIR DUCTWORK DOWN	X"xY"
MCA MOCP	MINIMUM CIRCUIT AMPS MAXIMUM OVER CURRENT PROTECTION	MANUAL BALANCE DAMPER	\
OA PSI	OUTDOOR AIR POUNDS PER SQUARE INCH	EXHAUST AIR GRILLE	
PISG PVC RA	PSI GAUGE POLYVINYL CHLORIDE RETURN AIR	FLEXIBLE DUCTWORK	++++++
TSP UNO	SUPPLY AIR TOTAL STATIC PRESSURE UNLESS NOTED OTHERWISE	SUPPLY AIR DIFFUSER	
WP SIM	WEATHER PROOF SIMILAR	RETURN AIR GRILLE	
		DIFFUSER TAG, NEW	TAG — CFM SIZE, IF SHOWN

GENERAL HVAC NOTES

TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF

THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT

DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS. THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A

SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE. CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE

CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE

CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD. WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE

CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR

THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR. DRAWINGS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT (WHERE APPLICABLE) TO ENSURE EQUIPMENT FURNISHED WILL WORK FOR SPACES PROVIDED. FINAL DIMENSIONS OF DUCTWORK AND PIPING SHALL BE COORDINATED IN FIELD. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING TO FIT IN SPACES PROVIDED AND THESE ADDITIONAL OFFSETS AND TRANSITIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AT TIME OF PROJECT PERMIT.

THERMOSTATS, HUMIDISTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND/OR OTHER DEVICES REQUIRING OCCUPANT ADJUSTMENT BUT LOCATED ON WALL SHALL BE MOUNTED 48" AFF, UNLESS NOTED OTHERWISE.

WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WHERE EQUIPMENT OR DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOGY SHALL APPLY.

THESE GENERAL NOTES WORK IN CONJUNCTION WITH NOTES SHOWN ON PLAN VIEWS. THESE NOTES DO NOT SUPERCEDE NOTES SHOWN ON PLAN VIEW DRAWINGS. CONVERSELY, NOTES SHOWN ON PLAN VIEW DRAWINGS DO NOT SUPERCEDE THESE GENERAL NOTES.

REFER TO EQUIPMENT SCHEDULES FOR AIR AND WATER PRESSURE DROPS ASSOCIATED WITH COOLING AND HEATING COILS.

PROVIDE ACCESS PANELS IN DUCTWORK AND/OR BUILDING CONSTRUCTION WHERE REQUIRED FOR EQUIPMENT ACCESS AND SERVICE. PANELS SHALL BE SIZED TO SUIT EQUIPMENT SERVICED. WHERE PANELS WILL BE LOCATED IN FIRE RATED WALLS AND/OR PARTITIONS, THE ACCESS PANEL SHALL MEET THE RATING OF THE WALL. REFER TO ARCHITECTURAL DRAWINGS FOR RATINGS OF

WALLS AND PARTITIONS. UNLESS NOTED OTHERWISE, DUCTWORK, PIPING, VALVES, DAMPERS, AND ALL ASSOCIATED ANCILLARY HVAC DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MECHANICAL SPECIFICATIONS. ALL EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE NEW, UNLESS NOTED OTHERWISE, NO

PAINT DUCTWORK AND DAMPERS VISIBLE THRU REGISTERS FLAT BLACK PRIOR TO OWNER OCCUPANCY.

HVAC EQUIPMENT PROVIDED FROM THIRD PARTY MANUFACTURER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. WHERE CONFLICTS BETWEEN CONTRACT DOCUMENTS AND MANUFACTURER'S INSTRUCTION ARISE, THE

MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL PREVAIL. THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.

WHERE THERE ARE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCHES SHALL PREVAIL. MOUNT THERMOSTAT/HUMIDISTATS ADJACENT TO LIGHT SWITCHES.

AS REQUIRED BY BUILDING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TRANSITIONS AND EQUIVALENT SQUARE DUCT SIZES NEEDED TO FIT THRU JOISTS AND/OR WALL 2x4 SPACING WHERE ROUND IS SHOWN ON PLANS. THE CONTRACTOR SHALL PROVIDE THESE TRANSITIONS AND SQUARE DUCTS AT NO ADDITIONAL COST TO THE OWNER. COORDINATE WITH THE GC IN FIELD FOR JOIST AND WALL 2x4 REQUIREMENTS.

WHERE REQUIRED BY BUILDING CONSTRUCTION AND HEIGHT TO EQUIPMENT SERVED, THE CONTRACTOR SHALL PROVIDE HOISTING MECHANISMS AS WELL AS SCAFFOLDING WHERE REQUIRED TO INSTALL EQUIPMENT SHOWN WITHIN THESE CONTRACT DOCUMENTS. EQUIPMENT USED FOR THE INSTALLATION OF EQUIPMENT SHALL MEET ALL OSHA REQUIREMENTS.

PROVIDE MANUAL BALANCE DAMPERS FOR SUPPLY, RETURN, AND EXHAUST TAKE-OFFS TO REGISTERS WHETHER INDICATED OR NOT. WHERE DAMPERS WILL BE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE OPPOSED BLADE MANUAL BALANCE DAMPERS FROM REGISTER MANUFACTURER.

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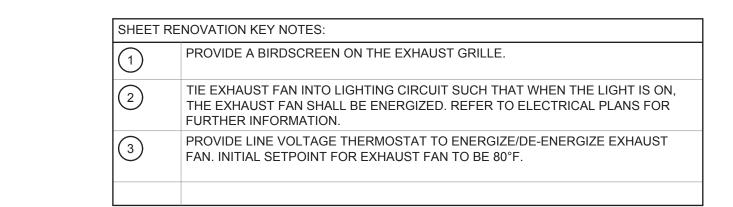
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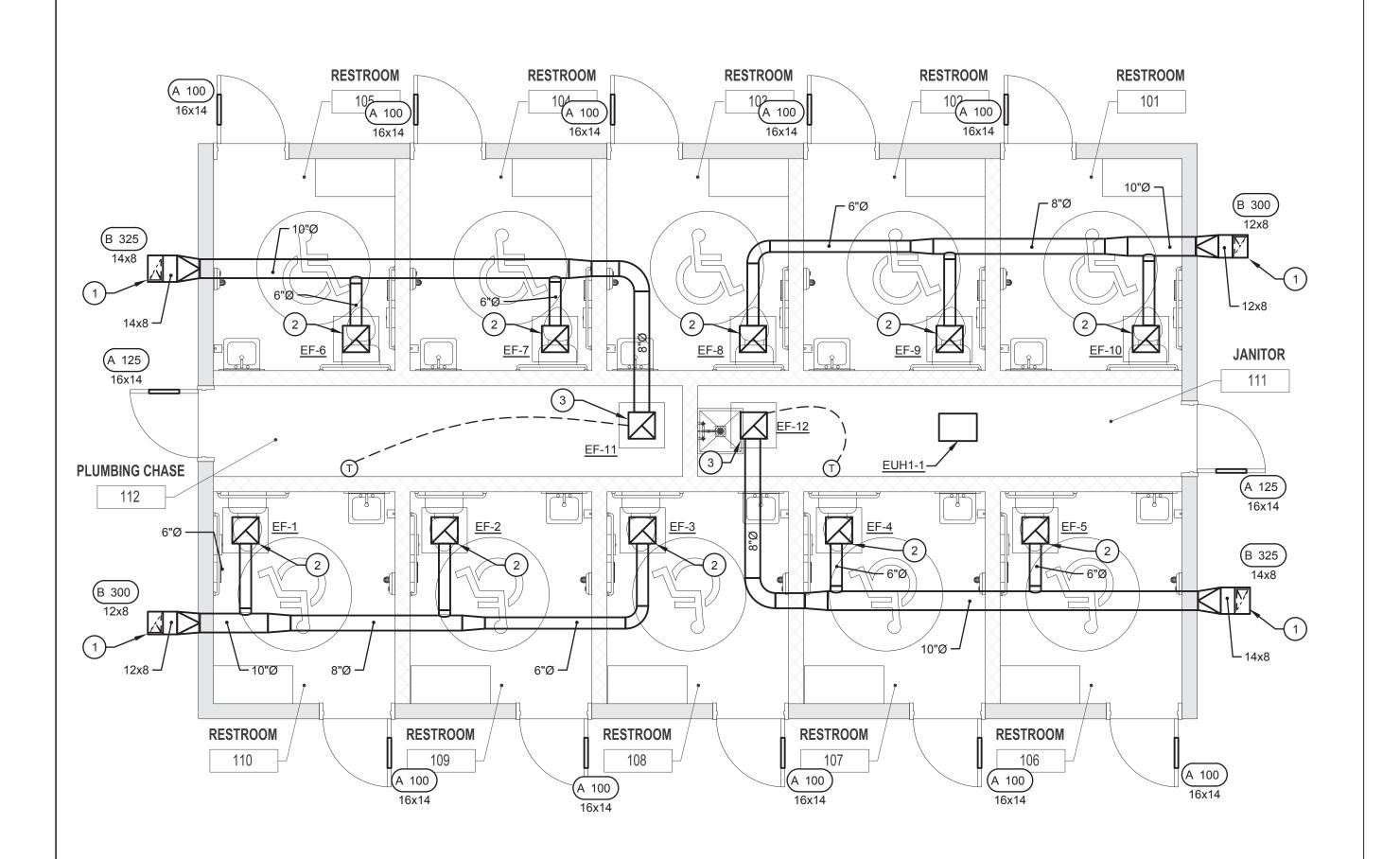
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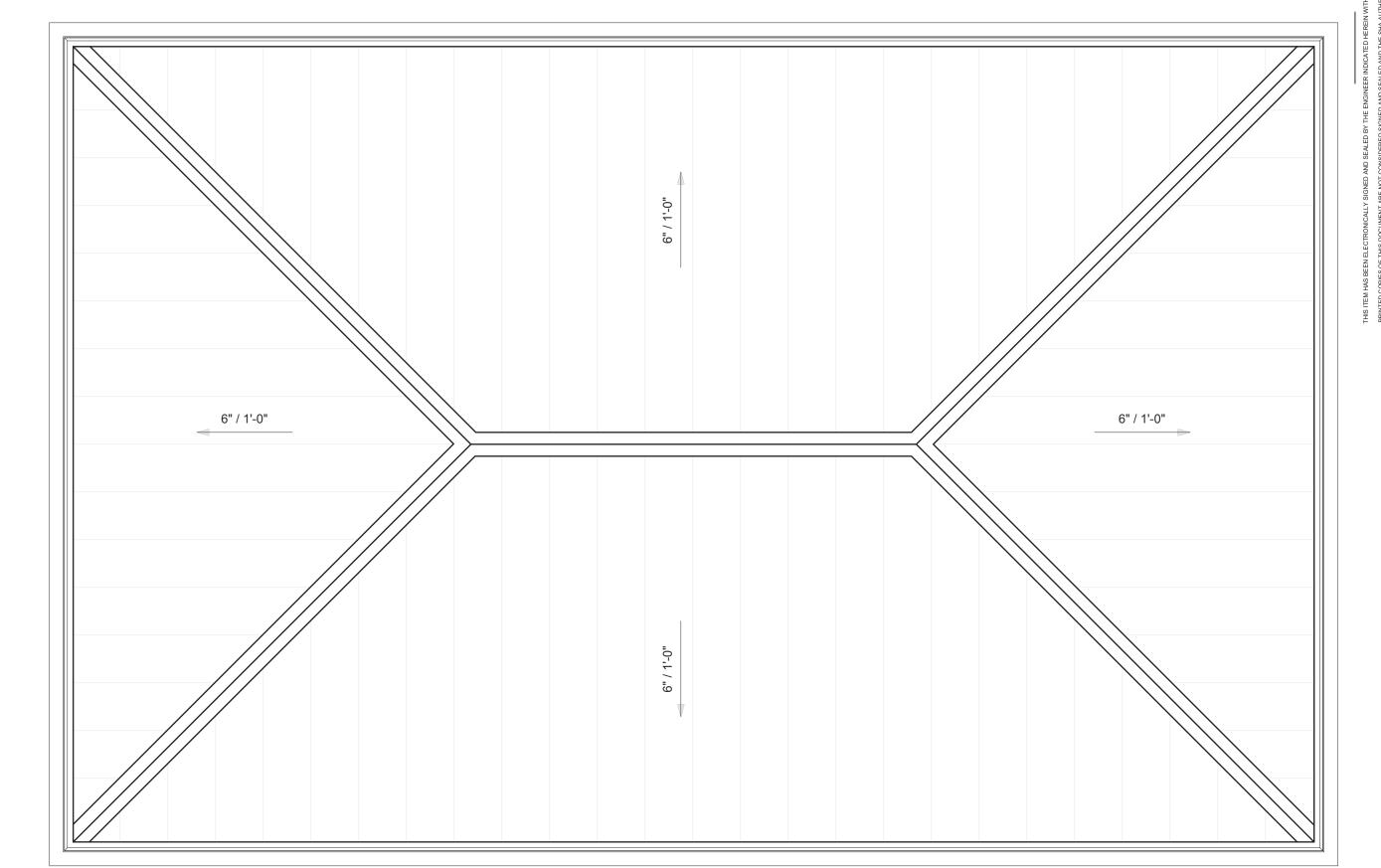
FLORIDA

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AND THE REAL PROPERTY.







2 ROOF PLAN - MECHANICAL

1/4" = 1'-0" FLOOR PLAN - MECHANICAL M101 1/4" = 1'-0"

FLOOR PLANS - MECHANICAL

CHAEL BOL

			FAN	SCH	HED	ULE				
EQUIPMENT NO.	MODEL NO.	FAN TYPE	CFM	EXT. STATIC	FAN RPM	DRIVE TYPE	SONES	MOTOR RPM	MOTOR HP (W)	VOLTAGE/ PHASE
EF1-1	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-2	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-3	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-4	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-5	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-6	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-7	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-8	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-9	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-10	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-11	GC-166	CEILING MOUNTED	125	0.35"	1045	DIRECT	2.5	1100	(46 W)	115/1Ø
EF1-12	GC-166	CEILING MOUNTED	125	0.35"	1045	DIRECT	2.5	1100	(46 W)	115/1Ø

NOTES:

- BASIS OF DESIGN: LOREN COOK, OR EQUAL.
- PROVIDE EXHAUST FANS, EF1-1 THRU EF1-10 WITH THE FOLLOWING: DISCONNECT SWITCH (REFER TO ELEC.), HANGING SUPPORT KIT, BACK DRAFT DAMPER, WHITE PLASTIC GRILLE, SPEED CONTROLLER, VIBRATION ISOLATORS. TIE EXHAUST FANS INTO LIGHTING CIRCUIT, REFER
- PROVIDE EXHAUST FAN, EF1-11 & EF1-12 WITH THE FOLLOWING: DISCONNECT SWITCH (REFER TO ELEC.), HANGING SUPPORT KIT, BACK DRAFT DAMPER, WHITE PLASTIC GRILLE, SPEED CONTROLLER, VIBRATION ISOLATORS AND LINE VOLTAGE THERMOSTAT. INITIALLY SET THERMOSTAT TO 80°F.

DIFFUSER SCHEDULE						
PLAN MARK	CFM	NECK SIZE	DESCRIPTION			
А	GRILLES TO BE 16x14		ALL ALUMINUM HEAVY DUTY CONSTRUCTION SIGHT PROOF TRANSFER GRILLE. GRILLE TO BE EXTRUDED ALUMINUM, MANDREL TUBE CONSTRUCTION AND ANGLED LOUVERED BLADES. PROVIDE GRILLE WITH MOUNTING KIT FOR DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOOR SCHEDULE. GRILLE SHALL BE EQUAL TO PRICE MODEL ATGH.			
В	REFER TO VIEWS FO AND SIZES	R CFM	ALL ALUMINUM CONSTRUCTION RETURN/EXHAUST AIR, WITH LOUVERED FACE AND 3/4" BLADE SPACING ON 45° ANGLE. PROVIDE LAY-IN TYPE BORDER WHERE LOCATED IN LAY-IN TYPE CEILINGS. PROVIDE WITH SURFACE MOUNTED BORDER WHERE LOCATED IN GYPSUM CEILINGS OR ON WALLS. GRILLE SHALL BE EQUAL TO PRICE MODEL 630.			
NOTES:						

1. LAY-IN AND WALL MOUNTED DIFFUSERS AND GRILLES SHALL BE WHITE.

2. WHERE REQUIRED BY GYPSUM CEILINGS, PROVIDE WITH PLASTER RINGS OR OTHER APPURTENANCES AS

TOTAL AMPS

310

AIR TEMP. RISE | VOLTAGE/PHASE

(°F)

(CDIR SERIES)

1 937U03000J

3. INTERIORS OF DIFFUSERS AND GRILLES VISIBLE FROM THE FINISHED SPACE SHALL BE PAINTED FLAT BLACK.

ELECTRIC UNIT HEATER SCHEDULE

13.2

EUH1-1 NOTES:

EQUIPMENT NO.

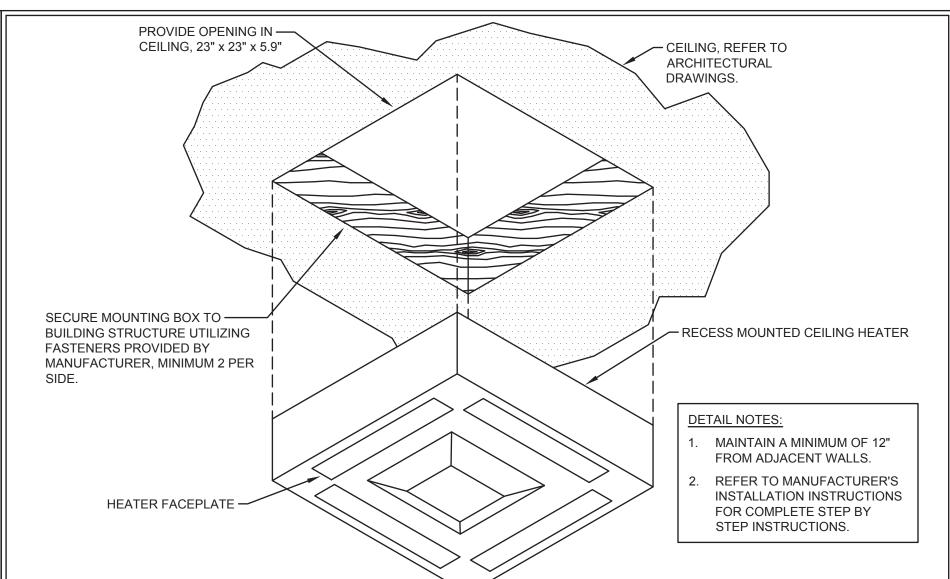
BASIS OF DESIGN: INDEECO OR EQUAL.

QUANTITY

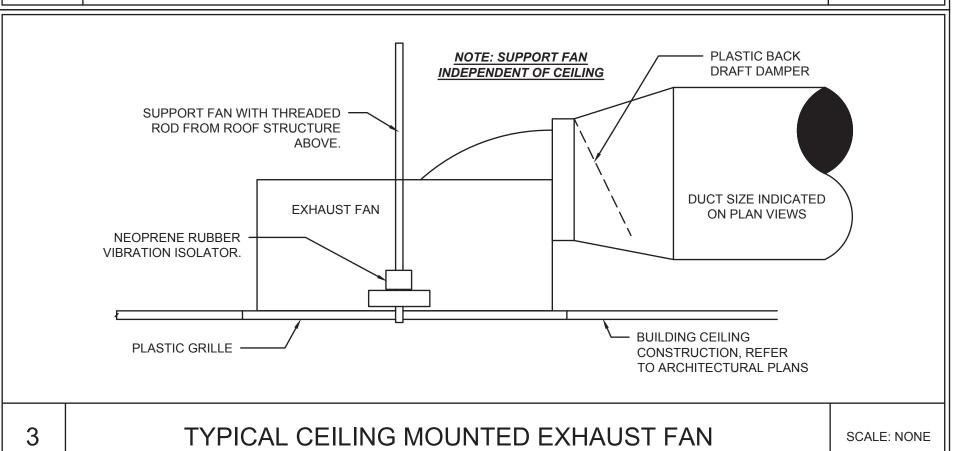
PROVIDE UNIT HEATERS WITH FAN ON/AUTO SWITCH, FACTORY BUILT-IN DISCONNECT SWITCH RATED FOR UNIT HEATER, STEEL FINNED TUBULAR ELEMENTS, AND CEILING MOUNTED KIT. COLOR TO BE SELECTED BY ARCHITECT.

KILOWATTS

TRIM KITS SHALL BE TAMPER PROOF AND PROVIDED WITH ANTI LIGATURE COMPONENTS. THERMOSTATS SHALL BE INTERNALLY MOUNTED AND NOT ADJUSTABLE FROM EXTERIOR OF UNIT. INITIALLY SET THERMOSTATS TO 70°F.



RECESSED CEILING HEATER DETAIL



SCALE: NONE

RETURN OR MITERED ELBOW WITH EXHAUST AIRFLOW DOUBLE WALL TURNING VANES. SUPPLY → 45° TAP WITH MANUAL AIRFLOW BALANCING DAMPER. . RETURN OR **EXHAUST** AIRFLOW SUPPLY MANUAL BALANCE DAMPER RADIUS ELBOW. **ELBOW SHALL** RETURN OR HAVE A MINIMUM _ EXHAUST RADIUS OF AIRFLOW X"xY" DUCT 1.5 TIMES THE DIMENSION X-DIMENSION. SUPPLY **DETAIL NOTES**: 1. PROVIDE ELBOW TYPE (MITERED OR RADIUS) AS INDICATED ON PLAN VIEWS. 2. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AT THE TIME OF PERMIT. TYPICAL DUCTWORK DETAIL SCALE: NONE

CHAEL BOL

MECHANICAL

PI	LUMBING FIXTURE SCHEDULE:	AB	BREVIATIONS	SYMBOLS	LEGEND
WC-1)	PROVIDE A KOHLER MODEL K-3999-UT VITREOUS CHINA TANK TYPE, FLOOR MOUNTED, WATER CLOSET WITH ELONGATED BOWL, OR EQUAL. WATER CLOSET	AFF	ABOVE FINISHED FLOOR	XX-1	PLUMBING FIXTURE TAG
	SHALL BE A (2) PIECE TYPE WATER CLOSET WITH A MAXIMUM WATER USAGE OF 1.28	AHAP	AS HIGH AS POSSIBLE		DCW PIPING
	GALLONS PER FLUSH AND 16-1/2" HIGH BOWL. TANK TO BE INSULATED AND COME	BF	BELOW FLOOR		DHW OR DTW PIPING
	COMPLETE WITH TANK COVER LOCKS. PROVIDE WITH A EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES	BG	BELOW GRADE		DTWR PIPING
	EQUAL TO BEMIS 1655SSCT. PROVIDE COLD INLET WITH 1/4 TURN ANGLE BALL STOP	СО	CLEANOUT		WASTE PIPING
	WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOP TO BE ALL BRASS WITH REMOVABLE HANDLE	DCW	DOMESTIC COLD WATER		
	RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH	DF	DRINKING FOUNTAIN		VENT PIPING
	CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOP	DHW	DOMESTIC HOT WATER (120°F)	<u></u> -∞	ROUND FLOOR DRAIN/SINK
	TO WATER CLOSET. PROVIDE WATER CLOSET WITH HEAVY DUTY CLOSET FLANGE MATCHING PIPING MATERIAL AND WAX RING. WATER CLOSET AND ASSOCIATED	DN	DOWN	s	PIPE BREAK
	APPURTENANCES SHALL BE ADA COMPLIANT WITH FLUSH HANDLE ON WIDE SIDE OF	ET		∭	PIPE TURNED UP
	ROOM.	II — ·	EXPANSION TANK		PIPE TURNED DOWN
L-1	PROVIDE A KOHLER MODEL K-2031 VITREOUS CHINA WALL HUNG LAVATORY WITH FLOOR MOUNTED CONCEALED ARM CARRIER, OVERFLOW AND SINGLE FAUCET HOLE	EWC	ELECTRIC WATER COOLER	<u> </u>	BOTTOM PIPE TAP
	OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH	EWH	ELECTRIC WATER HEATER	<u> </u>	PIPE CAP
	CLEANOUT EQUAL TO PROFLOW MODEL PFPTB104. PROVIDE OFFSET LAVATORY GRID DRAIN EQUAL TO PROFLO MODEL PFGD101. PROVIDE A CHICAGO FAUCETS	FD	FLOOR DRAIN		
	MODEL 3510-E2805AB SINGLE HOLE AND SINGLE SUPPLY FAUCET. FAUCET TO HAVE	НВ	HOSE BIBB		FLOOR OR GRADE CLEANOUT
	SINGLE LEVER HANDLE, STAINLESS STEEL HOSE AND 0.5 GPM VANDAL PROOF		INVERT ELEVATION		DIRECTION OF FLOW
	NON-AERATING LAMINAR FLOW OUTLET. PROVIDE COLD INLET WITH 1/4 TURN ANGLE BALL STOP WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO	l	INDIRECT WASTE	ιδι	BALL VALVE
	BRASSCRAFT MODEL KTR19X. STOP TO BE ALL BRASS WITH REMOVABLE HANDLE	IVV		 	CHECK VALVE
	RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH	<u>L</u>	LAVATORY	1	WATER HAMMER ARRESTOR
	CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOP TO FAUCET INLET. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED	MS	MOP SINK	<u> </u>	WATER HAWWER ARRESTOR
	LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231. PROVIDE	NTS	NOT TO SCALE		1
	HANDICAP INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT.	SAN	SANITARY WASTE (OUTSIDE OF BUILDING)		
MS-1	PROVIDE A MUSTEE MODEL 63M 24"x 24"x10" FIBERGLASS MOP SINK OR EQUAL. MOP SINK TO BE COMPLETE WITH INTEGRAL STAINLESS STEEL DRAIN BODY AND	SV	SHUTOFF VALVE		
	STAINLESS STEEL CAPS ON ALL CURBS. PROVIDE MOP HANGER CONSISTING OF	U	URINAL		
	24"x3" WIDE STAINLESS STEEL PLATE WITH 3 RUBBER TOOL GRIPS, HOSE AND HOSE BRACKET, AND MUSTEE MODEL 67.2424 24"x24" STAINLESS STEEL WALL GUARD ON 2	V	VENT		
	SIDES. PROVIDE A T&S BRASS MODEL B-0665-BSTC-R CHROME PLATED BRASS	\\\\\	SANITARY WASTE (INSIDE OF		

WATER HEATER SCHEDULE												
EQUIPMENT NO. MODEL NO. FUEL SUPPLY (GAS OR ELEC) STORAGE CAPACITY (GALLONS) ELECTRIC ELEMENTS (BLECTRIC ELEMENTS (GALLONS) FOR SET (GALLONS) SET (GALLONS) SET (GALLONS) SET (GALLONS)				MIN. EFF.	VOLTS-PHASE	FLA	NOTES					
EWH-1 DEL-30 ELEC 3			30	(1) 4.5	4.5	31	120	99%	240V-1Ø	18.8	1,2,3,4,5,6	
NOTES:												
1. BASIS	OF DESIGN: A.O. SMIT	H (EQUAL MANUFACTUR	ERS: BRADFORD \	WHITE, LOCHIN	VAR, STATE)							
2. PROVI	DE HEATER WITH A TE	MPERATURE AND PRESS	URE RELIEF VALV	E SIZED BY THE	E UNIT MANUFA	CTURER.						
3. PROVI	DE UNIT WITH EXPANS	ION TANK (ET). SEE EXPA	NSION TANK SCH	EDULE.								
4. PROVIDE UNIT WITH WALL MOUNTING BRACKET AND DRAIN PAN. SEE DETAIL #3/P501.												
	5. PROVIDE HEATER WITH A VACUUM BREAKER SIZED BY THE UNIT MANUFACTURER AS REQUIRED.											

EXPANSION TANK SCHEDULE

ACCEPTANCE

FACTOR (%)

45%

TANK VOLUME

(GALLONS)

2.0

SYSTEM

TEMP.

MAX./MIN.

60°F/120°F

INITIAL FILL

PRESSURE

40 PSI

ASME RATED

NO

FAUCET OR EQUAL. FAUCET TO BE COMPLETE WITH VACUUM BREAKER, INTEGRAL

CHECK STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4 INCH HOSE THREAD

PROVIDE A WOODFORD MODEL 67 FREEZELESS WALL HYDRANT. HYDRANT TO BE

FREEZELESS, AUTOMATIC DRAINING WITH BACKFLOW PREVENTER, 3/4" INLET AND

OUTLET, LOOSE KEY OPERATION AND CHROME PLATED FINISH. COORDINATE WITH

PROVIDE A ZURN MODEL Z415B-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL

HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE

PROVIDE A PRECISION PLUMBING PRODUCTS MODEL PRO1-500 OR EQUAL. TRAP

CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, 3'

OUTLET, 6" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND

PRIMER TO BE INLINE, FLOW ACTIVATED AND ALL BRASS CONSTRUCTION. PROVIDE

A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2

PROVIDE A WATTS MODEL 15M2 WATER HAMMER ARRESTOR OR EQUAL. ARRESTOR

TO BE PISTON OR BELLOWS TYPE, SUITABLE FOR DOMESTIC POTABLE WATER, PDI

ON SPOUT.

TO 4 TRAPS.

EQUIPMENT NO.

ET-1

NOTES:

SYSTEM SERVED

DOMESTIC HOT

WATER

BASIS OF DESIGN: AMTROL

MODEL NO.

ST-5C

WALL THICKNESS PRIOR TO ORDERING.

LISTED AND SIZED PER PDI RECOMMENDATIONS.

TRAP PRIMER CONNECTION.

(WH-1)

(FD-1)

									BOTTOM PIPE TAP	
WH			RIC WATER H	EATER					PIPE CAP	
D		FLOOR					Ø——		FLOOR OR GRADE CLEANOU	Γ
В		HOSE B					>>		DIRECTION OF FLOW	
			ELEVATION				-ιδι		BALL VALVE	
٧			CT WASTE				→		CHECK VALVE	
		LAVATO					1		WATER HAMMER ARRESTOR	
1S		MOP SII					Y		WATER HAWINER ARRESTOR	
TS			SCALE							
AN		SANITA BUILDIN	RY WASTE (0 IG)	OUTSIDE OF						
V		SHUTO	FF VALVE							
		URINAL								
'		VENT								
V		SANITA BUILDIN	RY WASTE (I IG)	NSIDE OF						
۷C		WATER	CLOSET							
VCC)	WALL C	LEANOUT							
۷HA	\	WATER	HAMMER AF	RESTOR						
= SC	CHE	DU	LE							
G	RECOVE 60°F R (GALLC	ISE	SET TEMP. °F	MIN. EFF.	VOLTS-PHASE	FLA	NOTES			
	31		120	99%	240V-1Ø	18.8	1,2,3,4,5,6			
JFA(CTURER.									
								<u> </u>		
								11		

MAXIMUM

SYSTEM

PRESSURE

150 PSI

NOTES

WATER HAMMER ARRESTOR		4.2	ISOLATE AND FILL SYSTEM WITH A LEAST 50 PPM CHLORINE AND LET STAND FOR A MINIMUM OF 24-HOURS.
		4.3	REMOVE WATER AND ISOLATE AND FILL SYSTEM WITH 200 PPM CHLORINE AND LET STAND FOR A MINIMUM OF 3-HOURS.
		4.4	FLUSH SYSTEM WITH CLEAN POTABLE WATER UNTIL CHLORINE IS NO LONGER IN SYSTEM.
		4.5	SUBMIT WATER SAMPLES TO THE AUTHORITY HAVING JURISDICTION. WHERE WATER IS FOUND TO BE UNACCEPTABLE, REPEAT PROCEDURES UNTIL WATER MEETS REQUIREMENTS.
		4.6	PROVIDE AND SUBMIT REPORTS OF DISINFECTION PROCEDURES.
		5	PROVIDE DIELECTRIC UNIONS AND FLANGE KITS FOR CONNECTIONS OF DISSIMILAR METALS.
		6	DOMESTIC COLD WATER, HOT WATER AND TEMPERED WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" THICK CLOSED-CELL FOAM INSULATION EQUAL TO ARMACELL TYPE AP ARMAFLEX TUBE INSULATION. EXTERIOR PIPING INSULATION TO BE COVERED WITH A 54 MIL THICKNESS ALUMINUM ALL SERVICE WRAP TAPED SEAMS EQUAL TO ALUMAGUARD ALL-WEATHER CLADDING. PROVIDE PREFORMED ALUMINUM COVERS ON FITTINGS AND ELBOWS. INSULATION SHALL HAVE AN INSTALLED MINIMUM CONDUCTIVITY OF 0.24 BTU*IN/(H*SF*°F).
		7	ISOLATION VALVES FOR DOMESTIC WATER PIPING SHALL BE BRONZE, SINGLE PIECE, FULL PORT VALVES SUITABLE FOR USE IN POTABLE DOMESTIC WATER LINES AND COPPER PIPING. PROVIDE WITH STAINLESS STEEL TRIM.
		8	PIPING SHALL BE SUPPORTED WITH TRAPEZE HANGERS SUPPORTED WITH THREADED ROD FROM STRUCTURE, OR FROM CLEVIS HANGERS. ALL SHALL MEET UL REQUIREMENTS AND MSS PIPING STANDARDS. ALL HANGER MATERIALS TO BE STAINLESS STEEL.
		9	FLOOR CLEANOUTS SHALL MEET THE FOLLOWING REQUIREMENTS:
		9.1	FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP.
		9.2	CARPETED FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET.
		9.3	TILE FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" SQUARE, 4" THICK COLLAR.
		9.4	WOOD FLOOR: LACQUERED CAST IRON WITH 1-1/2" SECURING FLANGE AND A SATIN FINISHED NICKEL BRONZE COMBINED GASKETED ACCESS COVER AND PLUG.
		10	CHECK VALVES SHALL BE SWING CHECK SUITABLE FOR USE IN DOMESTIC WATER LINES AND COPPER PIPING.
ES			CLEANOUT SCHEDULE
			GENERAL (ALL FLOOR & EXTERIOR CLEANOUTS): DURO-COATED CAST IRON CLEANOUT WITH MEMBRANE FLANGE WITH BRONZE COUNTERSUNK PLUG. CLEANOUT CAN BE ADJUSTED TO FINISH FLOOR LEVEL AFTER CONCRETE HAS SET. COORDINATE FLOOR TYPES WITH ARCHITECTURAL PLANS.
		<u>FCO</u>	FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. ZURN - ZN1400-BP
		FCO	<u>CARPETED FLOOR:</u> HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET. <u>ZURN - ZN1400-BP-CM</u>

PLUMBING SPECIFICATIONS

ABOVE & BELOW GROUND DOMESTIC VENT PIPING AND SANITARY PIPING SHALL BE

SCHEDULE 40 PVC OF SIZE INDICATED ON PLAN VIEWS. PIPING SHALL BE SLOPED IN

ACCORDANCE WITH FLORIDA BUILDING CODE, PLUMBING AND PROVIDED WITH SOLVENT

WELDED FITTINGS. PROVIDE TRANSITION FITTINGS AND METAL TO PLASTIC FITTINGS AND

APPURTENANCES WHERE REQUIRED TO CONNECT TO PLUMBING FIXTURES AS INDICATED

DOMESTIC HOT, TEMPERED AND COLD WATER PIPING SHALL BE ONE OF THE FOLLOWING:

TYPE "L" COPPER PIPING OF SIZE INDICATED ON PLAN VIEWS. PIPING CONNECTIONS FOR

FITTINGS AND APPURTENANCES WHERE REQUIRED. ADDITIONALLY, PROVIDE SOLDERED AND THREADED NIPPLES, COUPLINGS, OR OTHER PIPING COMPONENTS REQUIRED TO

FOR USE IN POTABLE WATER SYSTEMS AND APPROVED FOR USE BY THE FLORIDA

BUILDING CODE, PLUMBING. PROVIDE TRANSITION FITTINGS AND METAL TO PLASTIC

CONNECT TO PLUMBING FIXTURES AS INDICATED ON PLAN VIEWS. ALL PIPING AND

MATERIALS SHALL BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS. CLEAN WATER

PIPING AS IT IS INSTALLED AND KEEP CAPPED TO ENSURE DEBRIS AND DIRT DO NOT

CLEAN AND DISINFECT PIPING PRIOR TO PLACING IN SERVICE ACCORDING TO THE

COMPLETELY FLUSH SYSTEM WITH CLEAN WATER UNTIL ALL DIRT AND DEBRIS ARE

TILE FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TILE.

SQUARE X 4" THICK CONCRETE COLLAR. ZURN - ZN1406-BP-HD

ROUND POLISHED STAINLESS STEEL COVER. ZURN - Z1446-BP

TERRAZZO FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TERRAZZO.

EXTERIOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18"

WALL: DURA-COATED CAST IRON CLEANOUT TEE, BRONZE COUNTERSUNK PLUG, WITH

<u> ZURN - ZN1400-BP-HD-Z</u>

CONTAMINATE PIPING PRIOR TO PLACING IN SERVICE.

REMOVED AND CLEAN WATER FLOWS FREELY.

COPPER SHALL BE WROUGHT COPPER AND SOLDERED WITH SOLDER MATERIALS SUITABLE

SCHEDULE 80 CPVC PIPING & SOLVENT WELDED SCHEDULE 80 CPVC FITTINGS OR ASTM B88

AND FEDERAL CODES.

ON PLAN VIEWS.

ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR. ALL WORK SHALL CONFORM TO THE 2020 FBC-PLUMBING. AND ALL APPLICABLE LOCAL. STATE.

GENERAL PLUMBING NOTES

THESE GENERAL CONDITIONS APPLY TO THE CONTRACTOR HOLDING THE GENERAL CONTRACT AS WELL AS ALL OTHER SUB CONTRACTORS AND AGENTS REQUIRED TO PERFORM WORK ON THIS PROJECT.

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE THE OWNER WITH A COMPLETE, FULLY OPERATIONAL SYSTEM. WORK AND COMPONENTS NOT INDICATED BUT IMPLIED SHALL BE PROVIDED AND BE PART OF THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE ALL CORES AND SAW CUTS FOR WALLS AND FLOORS AS REQUIRED TO INSTALL PIPING AND SERVICES AS INDICATED ON THESE DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE BUILDING SITE PRIOR TO PROVIDING A BID. EXTRAS FOR NOT FULLY UNDERSTANDING THE EXISTING CONDITIONS OR THIS SET OF DOCUMENTS WILL NOT BE GIVEN. WHERE BUILDING SERVICES PENETRATE EXTERIOR WALL, SLEEVE AND SEAL WATER AND WEATHER TIGHT.
- WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2020 AND ANY OTHER APPLICABLE STATE, LOCAL, AND/OR FEDERAL CODES AND LAWS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND IS ALSO RESPONSIBLE FOR ALL ASSOCIATED FEES FOR SAID PERMITS AND INSPECTIONS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. PIPING SIZES, PIPING INVERTS, EQUIPMENT DIMENSIONS, MOUNTING HEIGHTS AND GENERAL ARRANGEMENT SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO PROCUREMENT. ALL FITTINGS MAY NOT BE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, TAPS FOR EXISTING SANITARY AND DOMESTIC PRESSURE PIPING, TRANSITIONS, FLEXIBLE CONNECTORS, VALVES, LABOR, OR ANY OTHER WORK INDICATED OR IMPLIED FOR A FULLY FUNCTIONAL SYSTEM.
- WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
- SOME PIPING MAY BE LOCATED IN WALLS THAT ARE NOT ACCESSIBLE. THE CONTRACTOR SHALL INCLUDE IN THEIR COSTS, THE CUTTING AND PATCHING OF WALLS TO ACCESS PIPING AS REQUIRED TO MAKE TIE-IN'S AS INDICATED HEREIN.
- THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE SITE DURING CONSTRUCTION ACTIVITIES. AS SUCH, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIONS AS REQUIRED BY LAW OR OWNER REQUIREMENTS. ANY DAMAGE DONE BY THE CONTRACTOR OR SUB OF SAID CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL BUILDING CONSTRUCTION AND ALL EQUIPMENT LOCATED WITHIN THE BUILDING OR ON SITE PREMISES
- WORK SHALL BE CARRIED OUT IN A NEAT WORKMAN LIKE MANNER. ALL CONSTRUCTION DEBRIS SHALL BE CLEANED UP AT THE END OF EVERY WORK DAY AND ALL CONSTRUCTION DUST SHALL BE VACUUMED UP AT THE END OF EVERY WORK DAY.
- UNLESS NOTED OTHERWISE, ALL MATERIALS, EQUIPMENT, PIPING, FIXTURES, WIRING, CABLING, AND OTHER DEVICES REQUIRED FOR COMPLETION OF PROJECT SHALL BE NEW. IN GENERAL, ITEMS SHOWN ON DRAWINGS LIGHTLY COMPARED TO OTHER COMPONENTS ARE EXISTING. WHERE ITEMS ARE NOT INDICATED EXPLICITLY TO BE DEMOLISHED, IT SHALL BE ASSUMED THAT THEY ARE TO REMAIN.
- 11 THE CONTRACTOR SHALL GUARANTY ALL LABOR AND EQUIPMENT ASSOCIATED WITH PROJECT FOR A MINIMUM OF 1-YEAR.
- 12 (2) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR MATERIALS AND EQUIPMENT SHALL BE PROVIDED TO THE OWNER AT PROJECT COMPLETION.
- 13 THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING DRAWINGS (ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL AND CIVIL) AND ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. EXTRAS WILL NOT BE GIVEN DUE TO FAILURE TO UNDERSTAND ALL CONDITIONS INVOLVED OR DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND CONDITIONS AND DIMENSIONS AND CONDITIONS INDICATED ON PLANS. WORK SHALL BE MODIFIED AND PROVIDED AS REQUIRED BY FIELD CONDITIONS AND THIS ADDITIONAL WORK SHALL BE CARRIED OUT AT NO COST TO THE OWNER.
- EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND STANDARD INDUSTRY PRACTICES. WHERE DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND MANUFACTURER'S REQUIREMENTS ARISE, REQUEST CLARIFICATION FROM ENGINEER.
- 15 PRIOR TO START-UP, PERFORM MANUFACTURER'S START-UP AND CHECKOUT
- PROCEDURES AND ATTACH FORMS TO OPERATION AND MAINTENANCE MANUALS. PROVIDE ACCESS DOORS FOR EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE GYPSUM CEILINGS OR WITHIN WALLS REQUIRING ACCESS. DOOR SIZES SHALL SUIT EQUIPMENT
- TRAP PRIMERS TO BE PROVIDED ON ALL FLOOR DRAINS AND WHERE INDICATED ON FLOOR
- REFER TO MECHANICAL DETAILS AND VENDOR DRAWINGS FOR FURTHER INFORMATION REGARDING INSTALLATION AND CONNECTION OF VENDOR PROVIDED EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL LEAK FREE INSTALLATION.

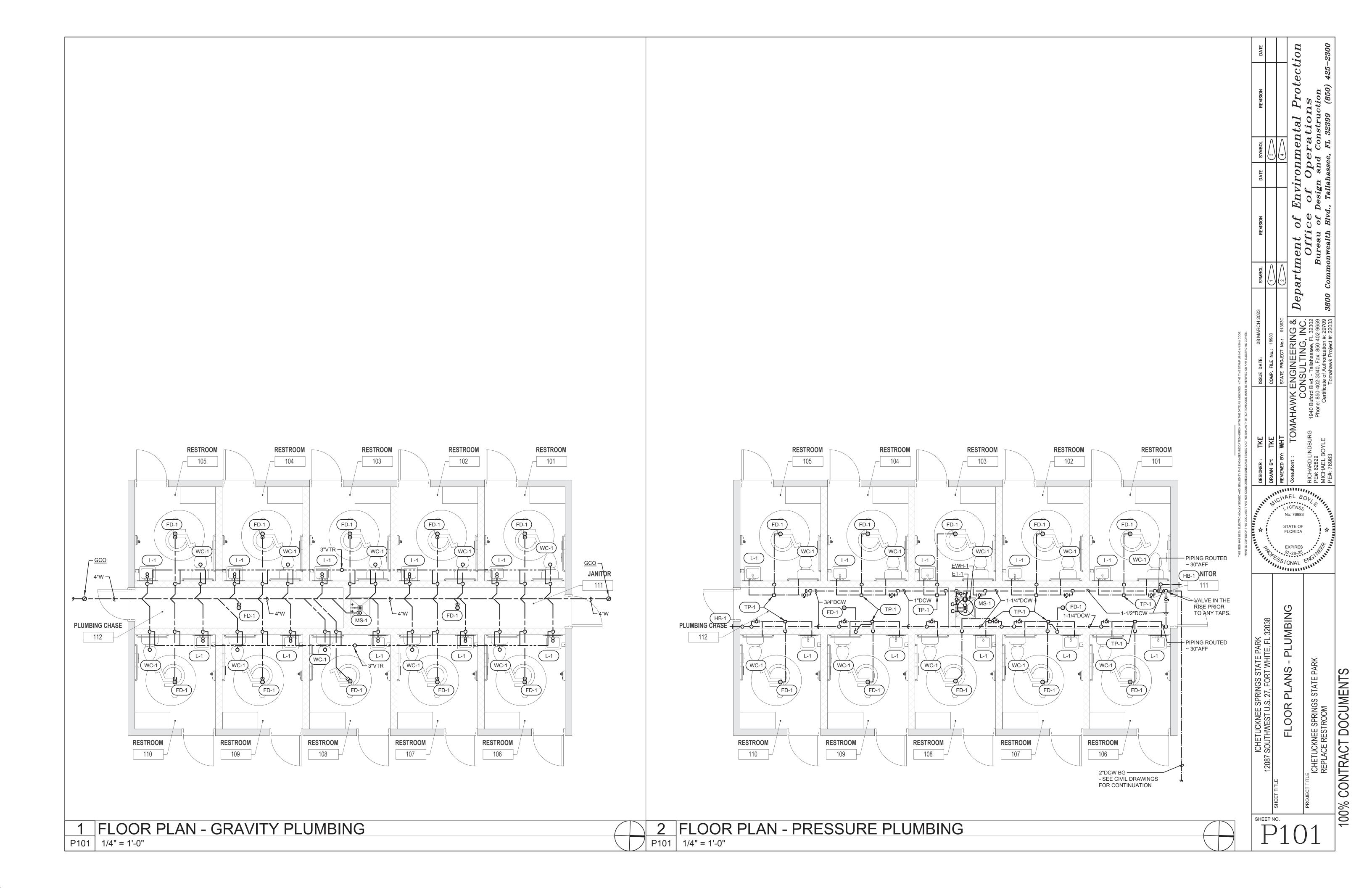
CODE	REFER	RENCES
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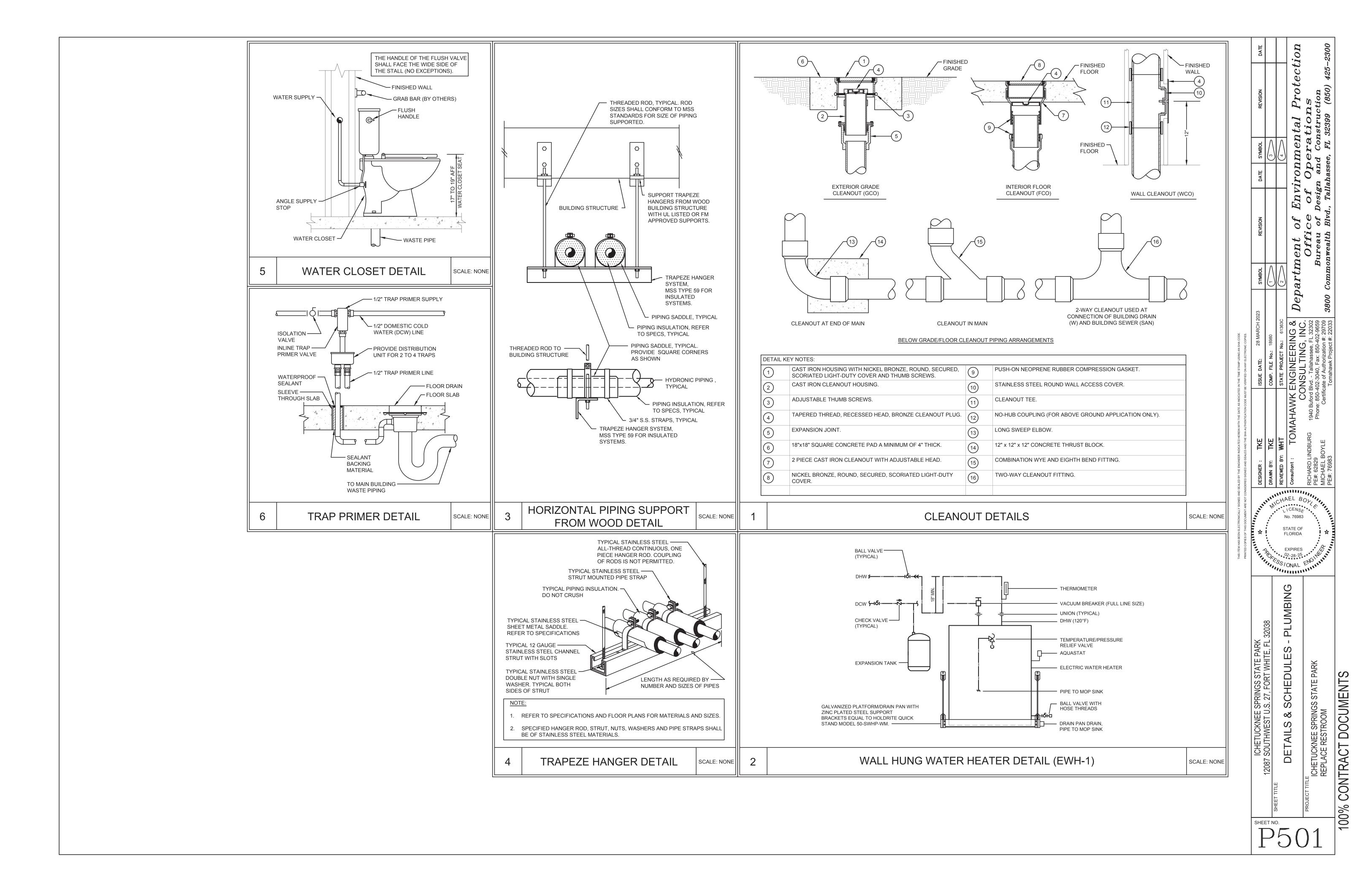
FBC, BUILDING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, PLUMBING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, TEST PROTOCOL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2020 SEVENTH EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2014
NFPA 70	NATIONAL ELECTRIC CODE, 2017 EDITION
NFPA 101	LIFE SAFETY CODE, 2018 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY

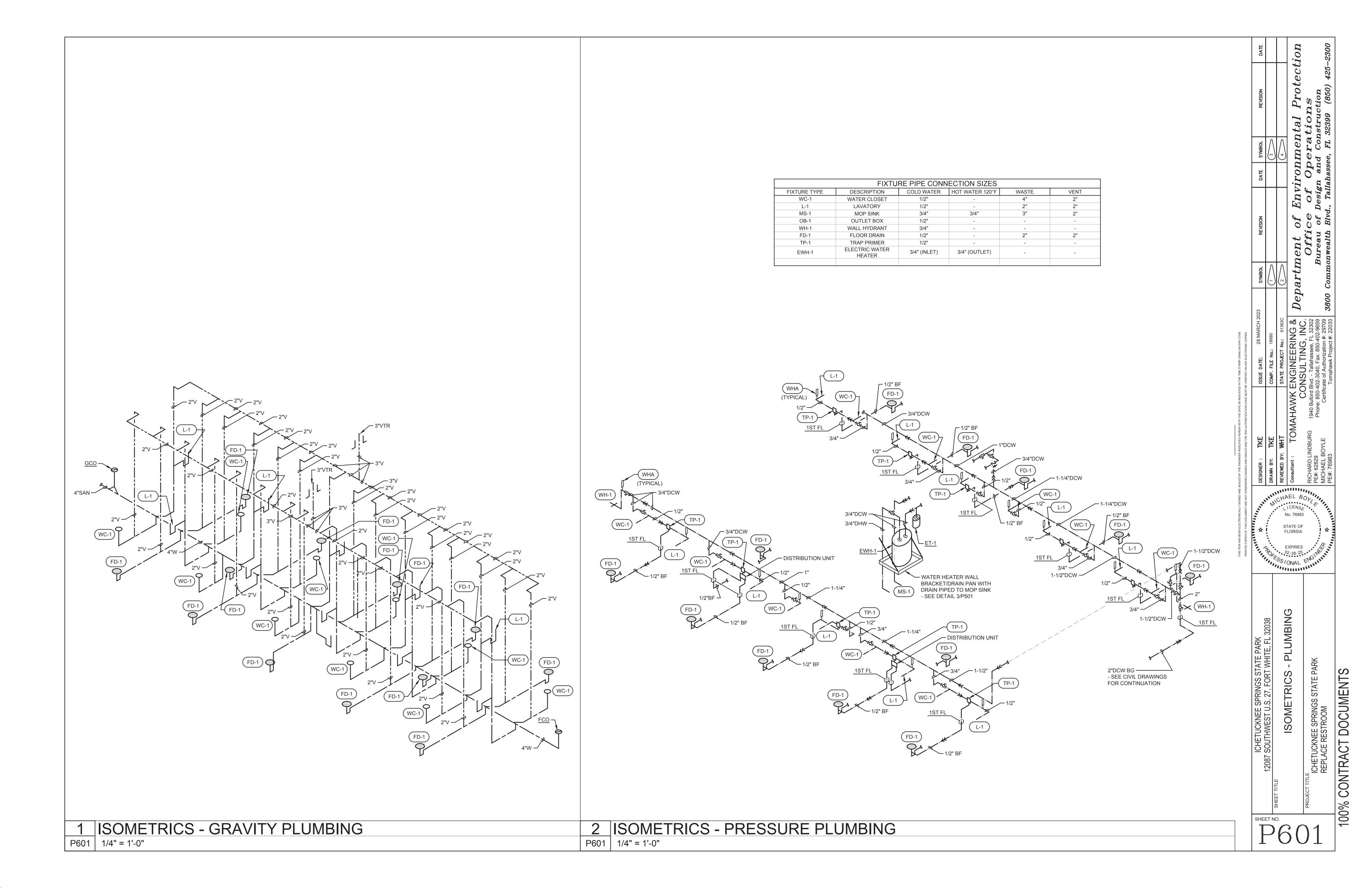
0 |**∞** (; 5888 CHAEL BOL FLORIDA **EXPIRES**

SSIONAL AND THE PROPERTY.

TUCKNEE SPRINGS STATE PARK
HWEST U.S. 27, FORT WHITE, FL 32038
EGEND, NOTES, DETAILS &
SCHEDULES - PLUMBING



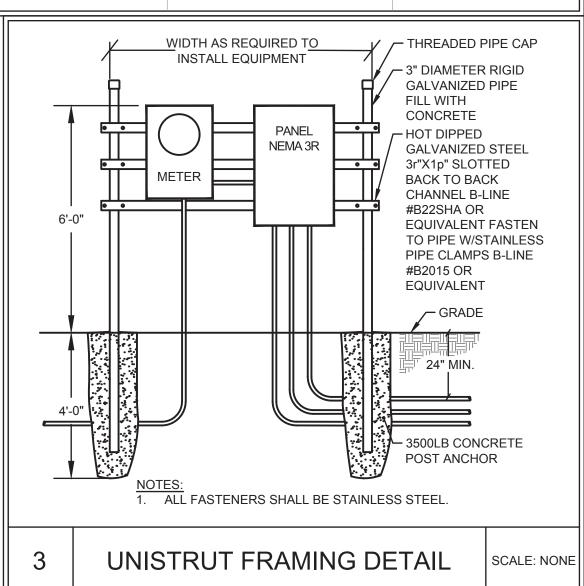


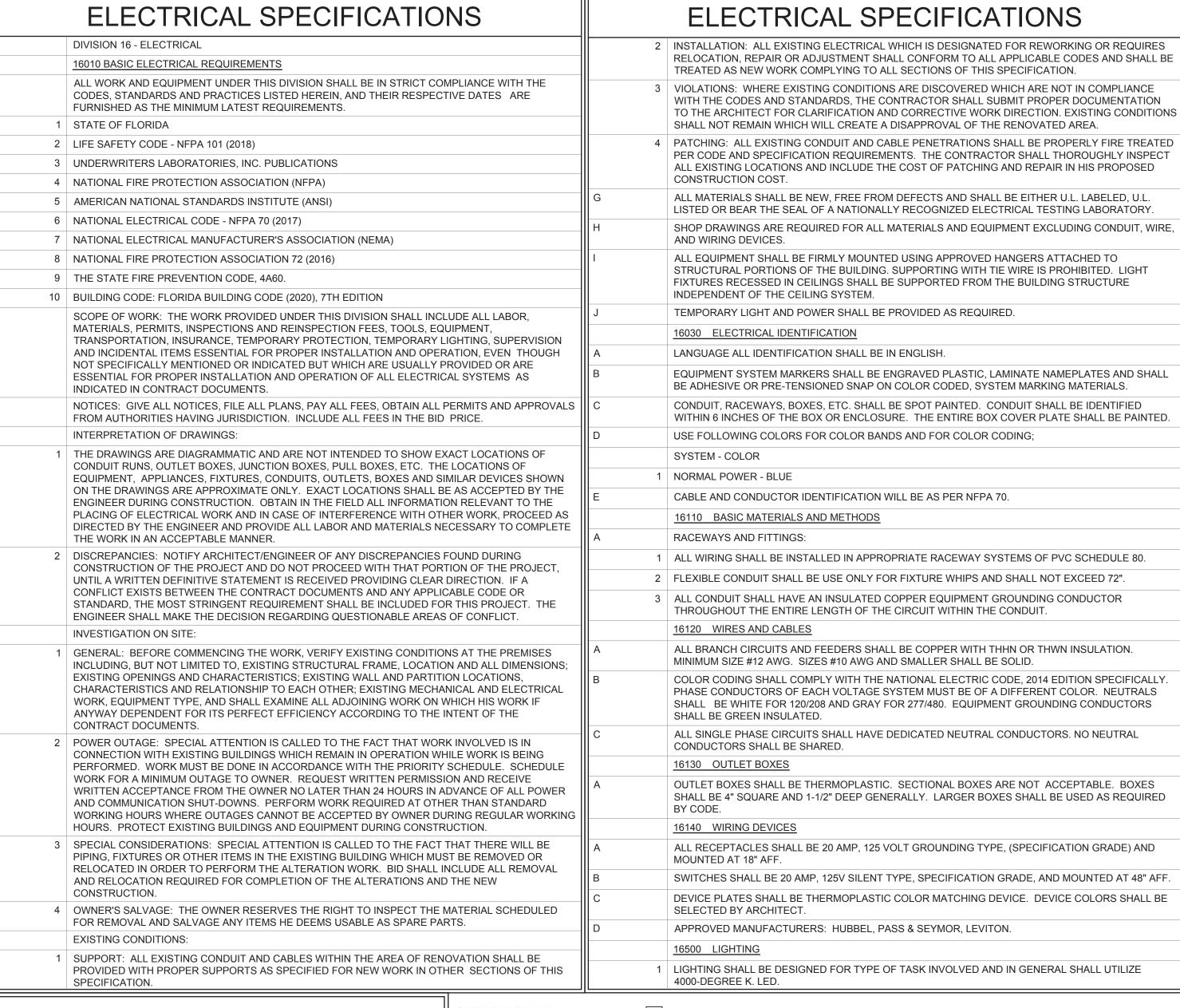


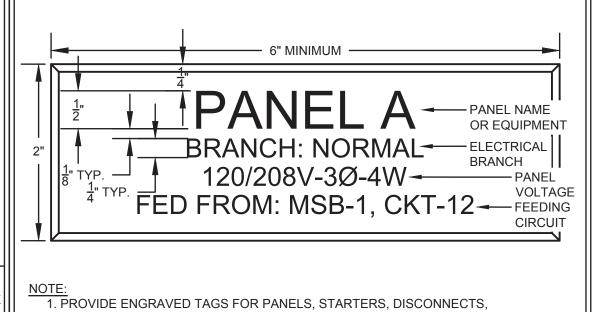
EL	ECTRICAL SYMBOL LEGEND	Al	BBREVIATIONS	
		ABBREVIATION	DESCRIPTION	
SYMBOL	DESCRIPTION	А	AMPERES	
GENERAL		AF	ABOVE FINISHED FLOOR	
GLINLIVAL		AF	AMP FRAME	
	CONCEALED RACEWAY AND BRANCH CIRCUIT WIRING SYSTEM.	AFC	AVAILABLE FAULT CURRENT	
		AG	ABOVE GRADE	
CKT	HOMERUN. LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT. 2-12 AWG, 12 G, 1/2"C UNLESS OTHERWISE NOTED.	AIC	AMP INTERRUPTING CAPACITY	
CKI	WZ O ONEEGO OTTENWIGE NOTED.	AWG	AMERICAN WIRE GAGE	
POWER & DEVICE		BKR	BREAKER	
		С	CONDUIT	
	LIGHTING PANEL BOARD. 72" ABOVE FLOOR TO TOP OF PANEL.	DCO	DUPLEX CONVENIENCE OUTLET	
	DISCONNECT SWITCH, TYPE AS INDICATED. MOUNT WITHIN SITE OF UNIT. 42" ABOVE	EF	EXHAUST FAN	
	FLOOR TO TOP.	FLA	FULL LOAD AMPERES	
	EQUIPMENT CONNECTION TYPE AS INDICATED OR INDICATED BY EQUIPMENT	GND OR G	GROUND	
©	MANUFACTURER.	GFI	GROUND FAULT CIRCUIT INTERRUPTER	
,		HP	HORSE POWER	
9	MOTOR CONNECTION, TYPE AS INDICATED.	IN	INCHES	
,		LTS	LIGHTS	
⇒	NORMAL BRANCH DUPLEX CONVENIENCE OUTLET. 18"AF TO BOTTOM UNLESS OTHERWISE NOTED.	MLO	MAIN LUGS ONLY	
	omenwice notes.	MOCP	MAXIMUM OVER CURRENT PROTECTION	
= ♦ GFI	NORMAL BRANCH DUPLEX CONVENIENCE OUTLETS IN COMMON BOX ABOVE COUNTER 4" ABOVE BACK SPLASH TO CENTERLINE UNLESS OTHERWISE NOTED. GFI	PH OR Ø	PHASE	
·	4 ABOVE BACK SFLASH TO CENTERLINE UNLESS OTHERWISE NOTED. GFT	PNL	PANEL	
=■GFI	SURFACE MOUNTED NORMAL BRANCH GFI AND WETHER PROOF DUPLEX CONVENIENCE	TR	TAMPER RESISTANT	
—wr	OUTLET. 18"AF TO BOTTOM UNLESS OTHERWISE NOTED.	V	VOLTS	
<u>LIGHTING</u>		VA	VOLT AMPS	
		W	WATTS	\parallel
⊢⊚	4ft. NORMAL BRANCH SURFACE LED FIXTURE WITH BATTERY BACKUP INDICATED TO SCALE LOWER CASE LETTER INDICATES SWITCH LEG	W	WIRE	\parallel
		(X)	EXISTING TO REMAIN	
ю	WALL MOUNTED LIGHTING FIXTURE. HEIGHT AS INDICATED.	XFMR	TRANSFORMER	

LIGHTING FIXTURE SCHEDULE

	1	<u> </u>	1	i		
TYPE	LAMPS #	LAMPS DESCRIPTION	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG#	
S1E	NA	LED 2775 LUMENS 25W 4000K >/= 80CRI	4'-0" LED VANDAL RESISTANT LIGHT WITH POLYCARBONATE LENS AND UNIVERSAL POWER SUPPLY. PROVIDED WITH 90 MINUTE BATTERY BACKUP.	LUMINAIRE OR EQUIVALENT	VPF4-4FT-NODIM-25W-40K-MVOLT-OP-WHT-EMB310	
W1	NA	LED 1970 LUMENS 20W 4000K >/= 80CRI	LED WALL MOUNTED VANDAL RESISTANT LIGHT WITH POLYCARBONATE LENS AND UNIVERSAL POWER SUPPLY. *ARCHITECT TO DETERMINE FINISH.	LITHONIA OR EQUIVALENT	DSXW1 LED 10C 530 40K T4M MVOLT VG *	







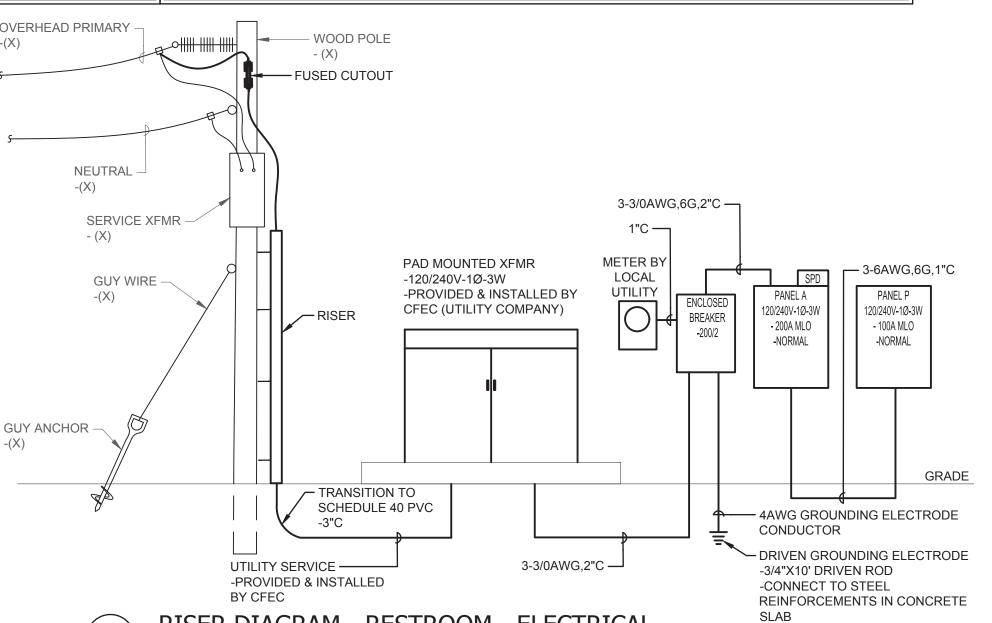
1. PROVIDE ENGRAVED TAGS FOR PANELS, STARTERS, DISCONNECTS, TRANSFORMERS, CONTROL AND FIRE ALARM, NAC PANELS AND AS INDICATED IN THE SPECIFICATIONS.

2. TAG SHALL BE MINIMUM 1/16" THICK WITH THE FOLLOWING COLOR CODE:

3. SERVICE EQUIPMENT LABEL SHALL ALSO INCLUDE THE CALCULATED AVAILABLE FAULT CURRENT AND DATA CALCULATED PRE NEC 110.24 (2011)

SCALE: NONE

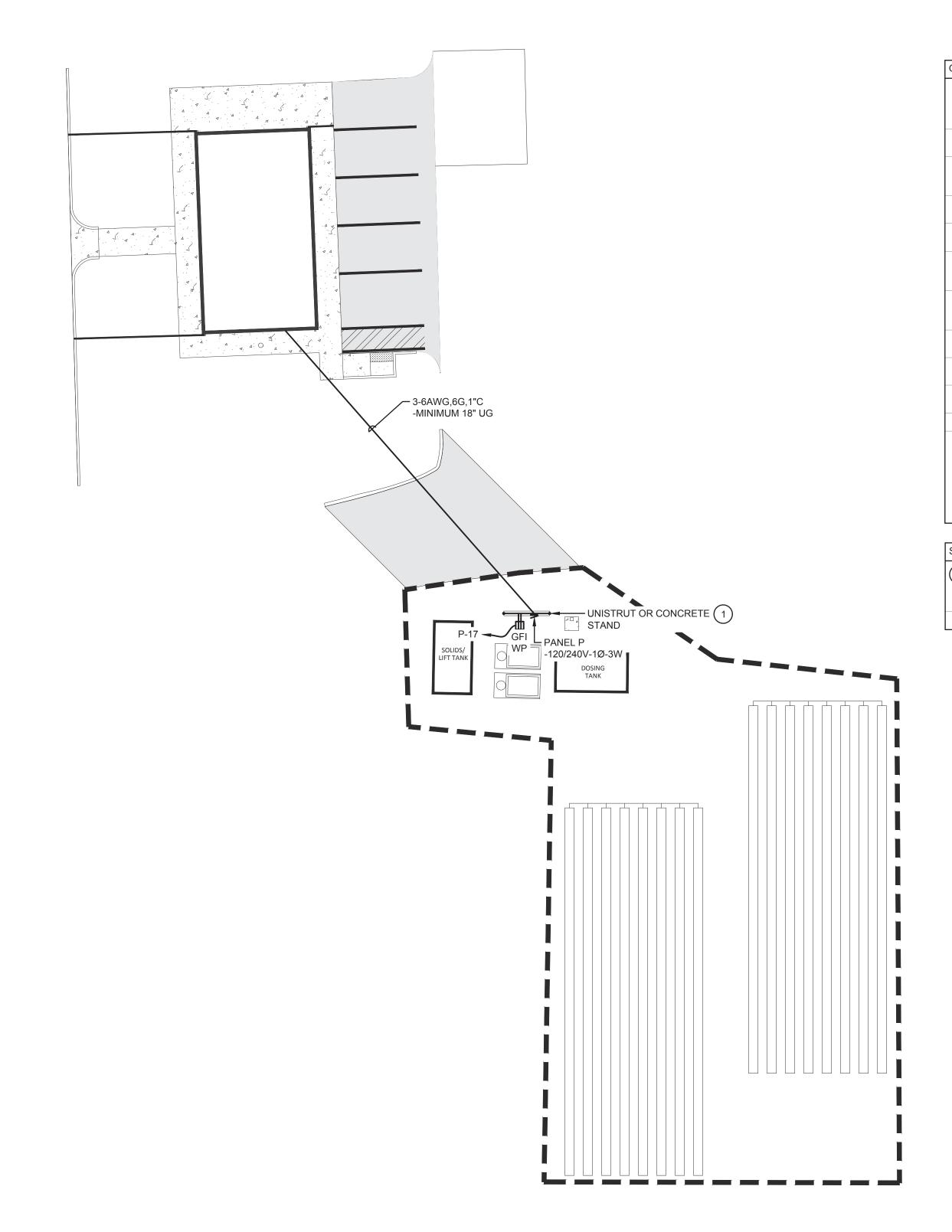
2 NAME PLATE DETAIL



No. 62829 FLORIDA SO I ONAL Manney . ELECTRIC NOTES DOCUMENT LEGEND

RISER DIAGRAM - RESTROOM - ELECTRICAL

EOO1



GENERAL SHEET NOTES:

- 1 THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, ALL OTHER CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL WORK REQUIRED BY THESE
- 2 OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK. OFFSET OUTLET BOXES TO MINIMIZE SOUND TRANSMISSION BETWEEN ROOMS.
- COORDINATE THE LOCATION OF LIGHTS, ETC. WITH OTHER TRADES. IN GENERAL LIGHTS, ETC. SHALL BE MOUNTED IN THE CENTER OF A CEILING TILE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- 4 CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT AS REQUIRED TO INSTALL LIGHTING FIXTURES.
- COORDINATE OUTLET BOX LOCATIONS WITH FURNITURE, CABINETS, AND EQUIPMENT. REFER TO ARCHITECTURAL ELEVATIONS.
- 4 COORDINATE SWITCH BOX LOCATIONS WITH FURNITURE, CABINETS, DOORS, SIDE LITES, ETC.. IN GENERAL, SWITCHES SHALL BE ADJACENT TO LATCH SIDE OF DOOR. REFER TO ARCHITECTURAL ELEVATIONS.
- COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS. PROVIDE JUNCTION AND/OR PULL BOXES AS REQUIRED BY FIELD CONDITIONS.
- PROVIDE IDENTIFICATION FOR EQUIPMENT, DEVICES & BRANCH CIRCUIT CONDUCTORS AS CALLED FOR IN THE SPECIFICATIONS.
- REFER TO THE SYMBOLS LIST AND SPECIFICATIONS FOR MOUNTING HEIGHTS OF
- 8 REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT SCHEDULES AND DETAILS.
- 9 NEUTRAL CONDUCTORS SHALL NOT BE SHARED.
- WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.

SHEET RENOVATION KEY NOTES:

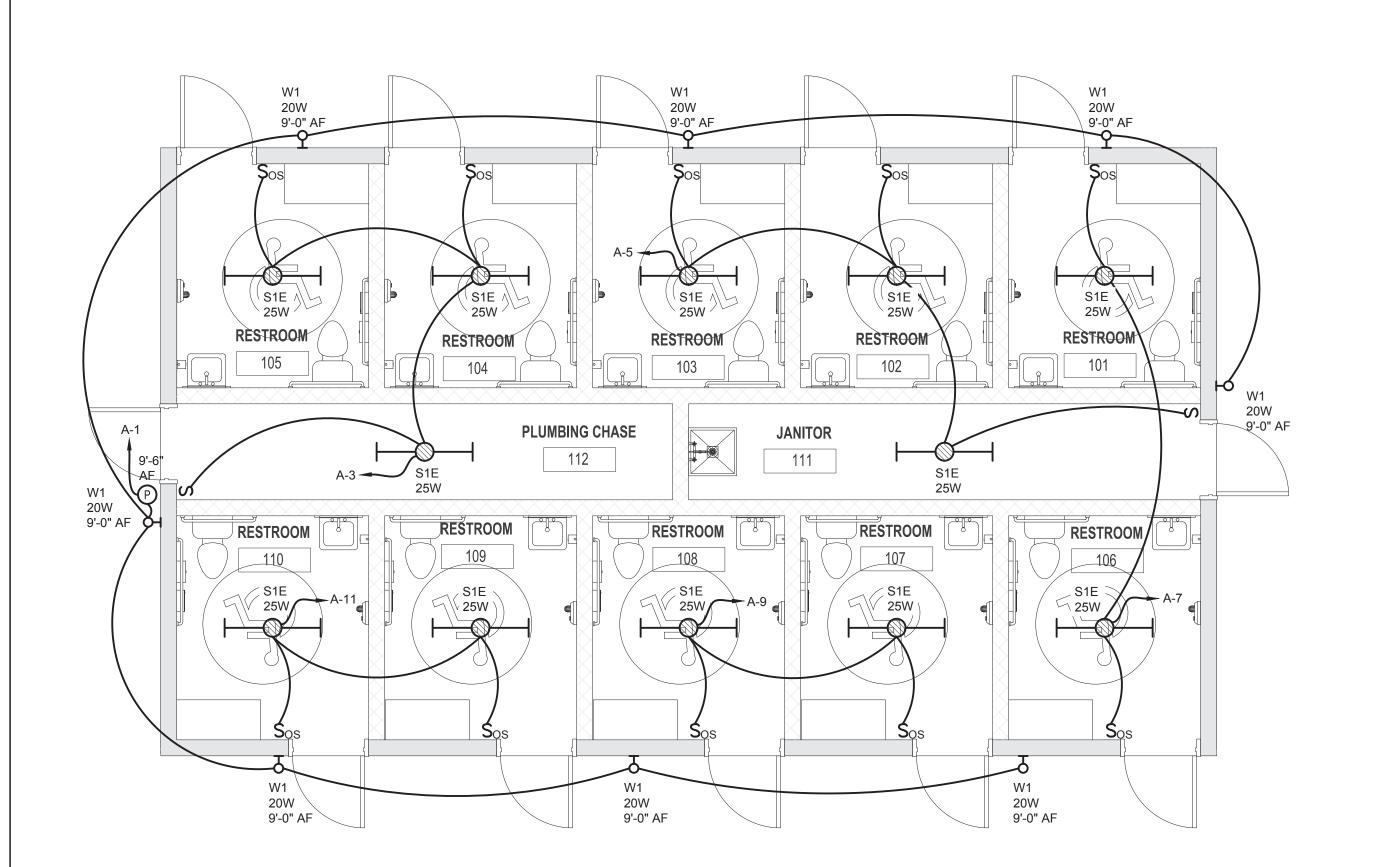
CONTRACTOR SHALL COORDINATE WITH THE CIVIL PLANS AND WASTEWATER SYSTEM DRAWINGS PRIOR TO PURCHASE OR INSTALLATION. ENSURE PROPER DISCONNECTING MEANS ARE PROVIDED FOR EACH MOTOR AND ALL ENCLOSURES SHALL BE NEMA 4X RATED.

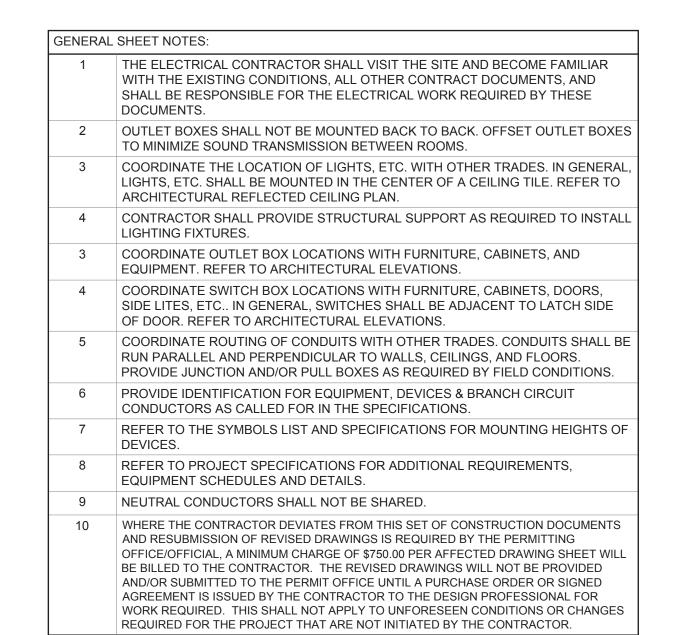
PLAN - ELECTRICAL

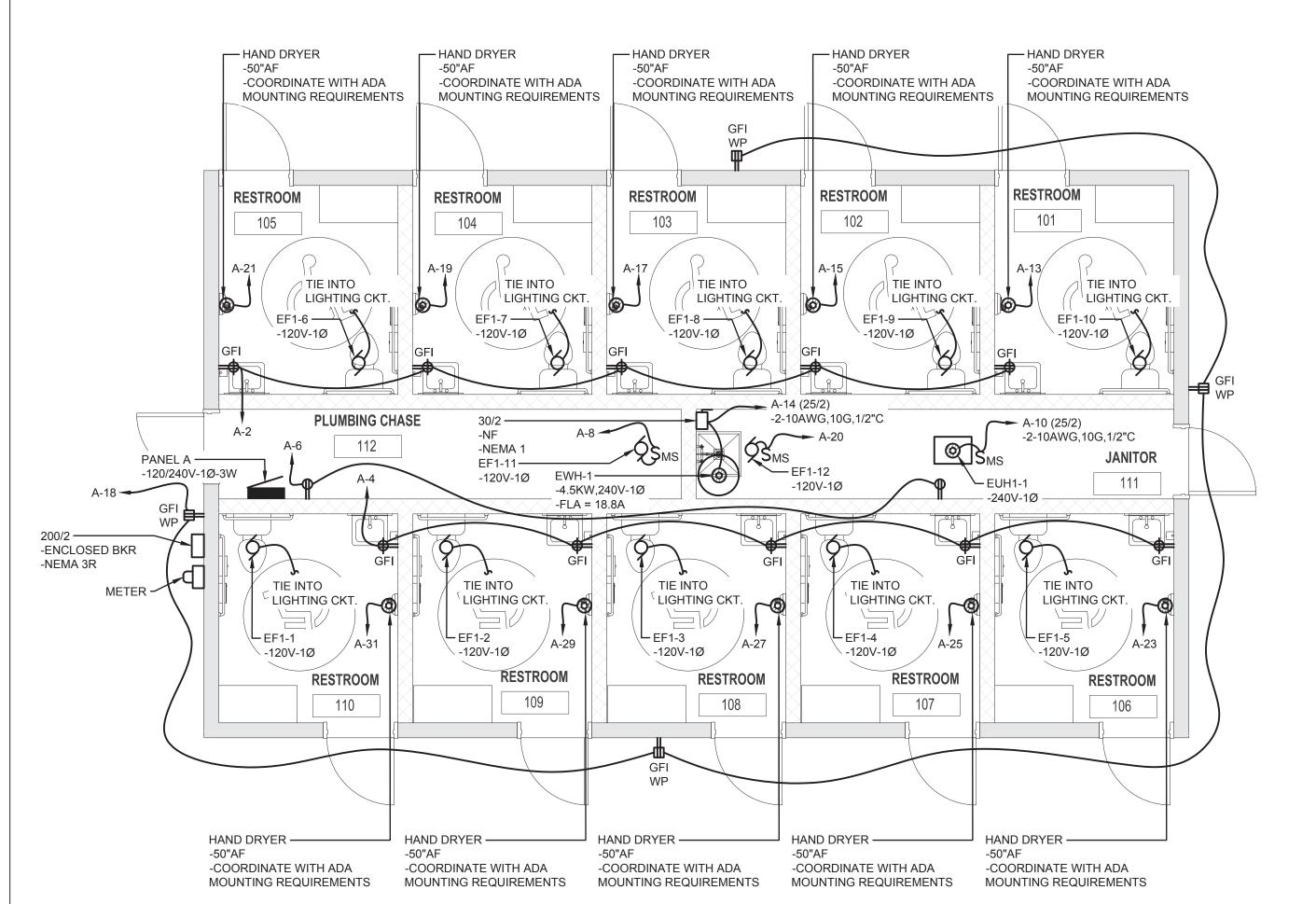
SITE PLAN - ELECTRICAL

LIGHTING GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR WITH ALL OTHER CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL WORK REQUIRED BY THESE DOCUMENTS.
- COORDINATE SWITCH BOX LOCATIONS WITH FURNITURE, CABINETS, DOORS, SIDE LITES, ETC.. IN GENERAL, SWITCHES SHALL BE ADJACENT TO LATCH SIDE OF DOOR. REFER TO ARCHITECTURAL ELEVATIONS.
- COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS. PROVIDE JUNCTION AND/OR PULL BOXES AS REQUIRED BY FIELD CONDITIONS.
- PROVIDE IDENTIFICATION FOR EQUIPMENT, DEVICES & BRANCH CIRCUIT CONDUCTORS AS CALLED FOR IN THE SPECIFICATIONS.
- REFER TO THE SYMBOLS LIST AND SPECIFICATIONS FOR MOUNTING HEIGHTS OF DEVICES.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT SCHEDULES AND DETAILS.
- COORDINATE THE LOCATION OF LIGHTS, ETC. WITH OTHER TRADES. IN GENERAL, LIGHTS, ETC. SHALL BE MOUNTED IN THE CENTER OF A CEILING TILE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT AS REQUIRED TO INSTALL LIGHTING FIXTURES.
- EMERGENCY AND NORMAL POWERED LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAY SYSTEMS PER NEC 700
- WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.







FLOOR PLAN - LIGHTING

E101 | 1/4" = 1'-0"

2 FLOOR PLAN - POWER & SYSTEMS

E101 | 1/4" = 1'-0"

CONTRACT DOCUMENTS

FLOOR PLANS - ELECTRICAL

HARD J. LINDO

\ \ CENSE No. 62829

FLORIDA

							-1
PANEL	.: A				VOLTAGE: 120/240V-1F	PH-3W	
	: UTILITY SERVICE E.B.				BRANCH: NORMAL		
	SURFACE				AIC RATING: 10,000A		
ENCLOSURE	: NEMA 1				MAINS: 200A MLO		
CKT. BKR.	DESCRIPTION	LEG A	LEG B		DESCRIPTION	BKR.	CKT.
NO.			_			 	NO.
1 20/1	LTS. EXTERIOR	160 90	00		REC. RR. 101-105	20/1	2
3 20/1	LTS. INTERIOR/EX. FAN RR 104,105,112	100 50	1131	900	REC. RR. 106-110	20/1	4
5 20/1	LTS. INTERIOR/EX. FAN RR 102,103,111	1131 36		000	REC. JAN. 111, CHASE 112	20/1	6
7 20/1	LTS. INTERIOR/EX. FAN RR 101,106	1101	1106	250	EF1-11 CHASE 112	15/1	8
9 20/1	LTS. INTERIOR/EX. FAN RR 107,108	1106 150		200	EUH1-1	25/2	10
11 20/1	LTS. INTERIOR/EX. FAN RR 109,110	1,00	1106	1500			12
13 *20/1	HAND DRYER RR 101	1100 225		3000000	EWH-1	25/2	14
15 *20/1	HAND DRYER RR 102		1100	2250	•••••••••••••••••••••••••••••••••••		16
17 *20/1	HAND DRYER RR 103	1100 72	20		REC. EXTERIOR	20/1	18
19 *20/1	HAND DRYER RR 104		1100	250	EF1-12 JAN. 111	15/1	20
21 *20/1	HAND DRYER RR 105	1100			SPARE	20/1	22
23 *20/1	HAND DRYER RR 106		1100		SPARE	20/1	24
25 *20/1	HAND DRYER RR 107	1100			SPARE	20/1	26
27 *20/1	HAND DRYER RR 108		1100		SPARE	20/1	28
29 *20/1	HAND DRYER RR 109	1100			SPARE	20/1	30
31 *20/1	HAND DRYER RR 110		1100		SPARE	20/1	32
33 20/1	SPARE				SPARE	20/1	34
35 20/1	SPARE				SPARE	20/1	36
37 15/2	SPD	535	66		PANEL P	60/2	38
39 —				5176			40
At .	450	18983	19	169		-11:-	90,0
IOTES:		16	- (Vis				
1. BASIS	OF DESIGN IS A SQUARE D NQOD WITH BOL'	TON QO BREAKI	ERS.				
2. *PROV	IDE GFCI TYPE BREAKER.						
2. PROVI	DE TYPE 1 EXTERNALLY MOUNTED SPD.						
		CONNECTED L	OADS DEMAN	D LOADS	5		
		VA AMPS	VA	AMPS			
IGHTING		5740 24	5740	24			
RECEPTACLES		3060 13	3060	13			
IOTORS		22852 95	22852	95			
MISCELLANE	OUS	6500 27	6500	27			
OTAL (AVERAGE PER PHASE)		3 <mark>81</mark> 52 159	38152	159			
NO MUMININ	ERCURRENT PROTECTION (125% OF TOTAL D	EMAND LOAD) =				199	-
HINIMONI OVI	ENCONNENT PROTECTION (123% OF TOTAL D	EINIAND LUAD) =				199	

FED I	NTING:	PANEL A SURFACE					VOLTAGE: 120/240V-11 BRANCH: NORMAL AIC RATING: 10,000A	PH-3W	
	BKR.	NEMA 3R DESCRIPTION	LEG A	9	LEG B		MAINS: 100A MLO	Laka	OKT
CKT. NO.	DNK.	DESCRIPTION	LEG A		LEG B		DESCRIPTION	BKR.	CKT. NO.
1	15/2	LIFT STATION PUMP #1	876	336			TREATMENT PLANT BLOWER #1	15/2	2
3					870	33	66		4
5	15/2	LIFT STATION PUMP #2	876	336			TREATMENT PLANT BLOWER #2	15/2	6
7					876	33	66	()	8
9	15/2	LIFT STATION CONTROLS & ALARM	500	876			DRAINFIELD DOSING PUMP #1	15/2	10
11					500	87	76	7	12
13	15/2	TREATMENT PLANT CONTROLS & ALARM	500	876			DRAINFIELD DOSING PUMP #2	15/2	14
15					500	87	⁷ 6	1	16
17	20/1	REC. EXTERIOR	180				SPACE		18
19		SPACE					SPACE		20
21		SPACE					SPACE		22
23		SPACE					SPACE		24
25		SPACE					SPACE		26
27		SPACE					SPACE		28
29		SPACE					SPACE		30
IOTES 1. B		OF DESIGN IS A SQUARE D NQOD WITH BOLT	535 ON QO BI		5	176			
			CONNEC	TED LOADS	DEMAN	ID LOAI	DS .		
			VA A			AMPS			
IGHTING		0	0	0	0				
RECEPTACLES		180	1	180	1				
MOTORS			8352	35	8352	35			
MISCELLANEOUS		2000	8	2000	8				
TOTAL (AVERAGE PER PHASE)		10532	44	10532	44				
IINIMU	M OVE	RCURRENT PROTECTION (125% OF TOTAL D	EMAND LO	AD) =				55	

THIS TEM INSS BEEN ELECTRONICALLY SIGNED AND SEALED BY THE ENGINEER INDICATED HEREIN WITH THE DATE AS INDICATED IN THE TIME STAMP USING AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERHIED COMES.

DESIGNER: BCP COMP. FILE No.: 18980

REVIEWED BY: RJL

REVIEWED BY: RJL

CONSULTING, INC.

RICHARD LINDBURG 1940 Buford Blvd. - Tallahassee, FL 32302

POR SEA 20402-3040, Fax: 850-402-9659

MICHAEL BOYLE

CONTRIBUTED CONTRIBUTION #: 22033

TOMADIAN Project #: 22033

PANEL SCHEDULES - ELECTRICAL

E701

ICHETUCKNEE SPRINGS STATE PARK 12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

PROJECT TITLE ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

100% CONTRACT DOCUMENTS