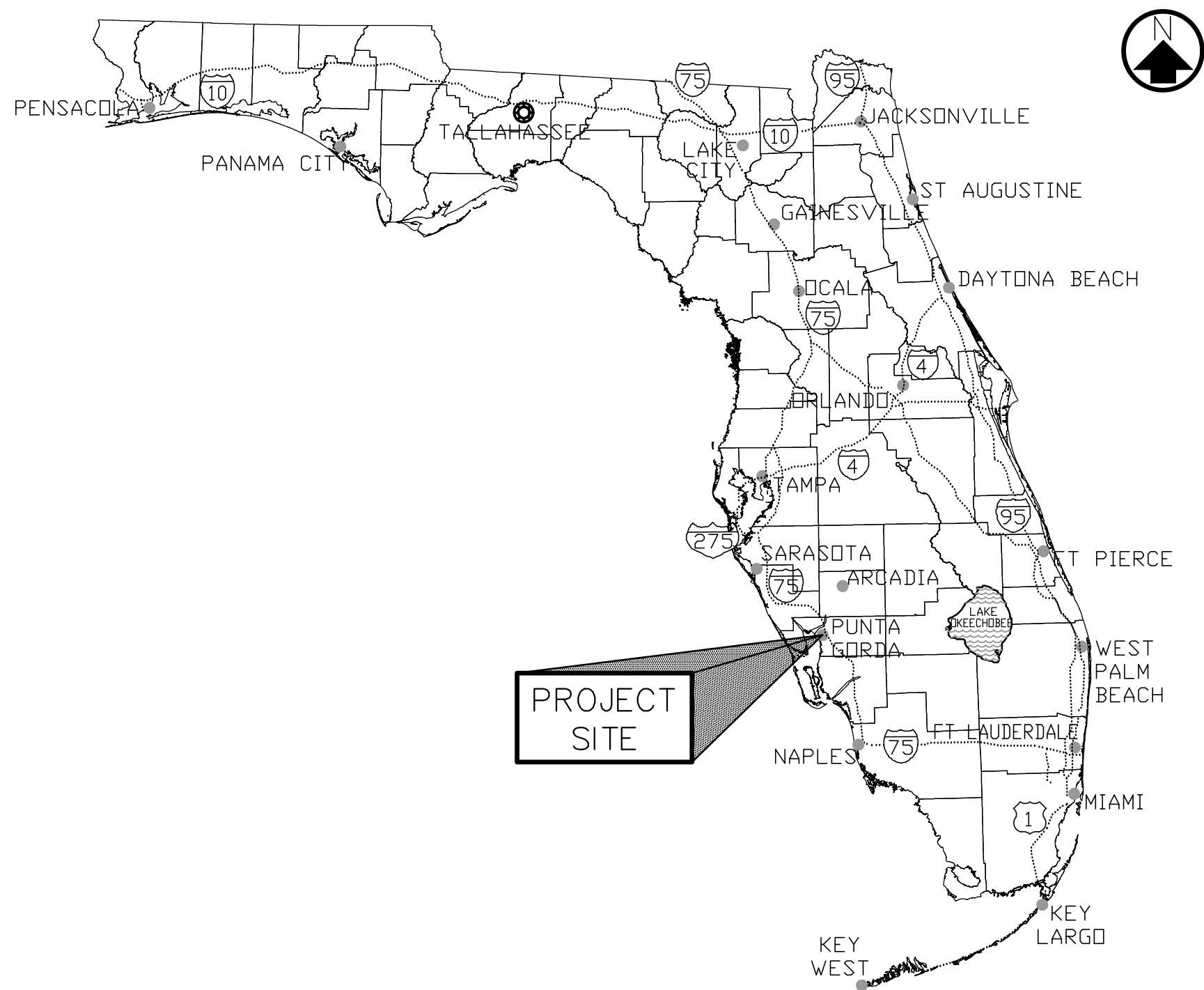


CONSTRUCTION PLANS
FOR
PUBLIC WORKS TEMPORARY OFFICES

SECTION 09, TOWNSHIP 41 S, RANGE 23 E
COUNTY, FLORIDA



STATE OF FLORIDA LOCATION MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

OWNER

CHARLOTTE COUNTY
18500 MURDOCK CIRCLE STE B208
PORT CHARLOTTE, FL 33948

PREPARED BY

THE WEILER ENGINEERING CORPORATION
201 W. MARION AVE, SUITE 1306
PUNTA GORDA, FLORIDA 33950
(941) 505-1700



INDEX OF DRAWINGS

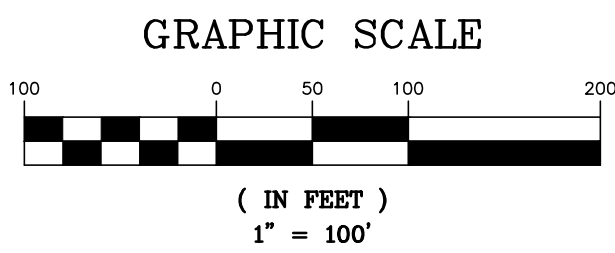
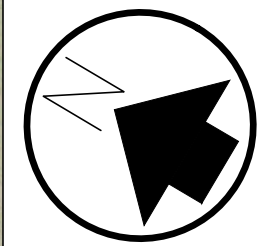
- C-1.0 COVER SHEET
- C-2.0 AERIAL
- C-3.0 EXISTING CONDITIONS/DEMOLITION PLAN
- C-4.0 SITE PLAN
- C-5.0 PAVING, GRADING, & DRAINAGE PLAN
- C-6.0 UTILITY PLAN
- C-6.1 UTILITY DETAILS
- C-6.2 UTILITY DETAILS
- C-7.0 BEST MANAGEMENT PLAN
- C-8.0 GENERAL NOTES & SPECIFICATIONS

Joshua J.
Jennings

Digitally signed by Joshua J.
Jennings
Date: 2025.06.20 15:50:25
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License No. 90677
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on the date indicated here,
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USER: Pedro.Guarin PLOTTED THE Aerial LAYOUT OF W:\2024\24020.003 - CSA - PW 17 temporary offices\Civil CAD DWG\06-20-2025.dwg, ON Jun 20, 2025 @ 12:47pm



LEGEND:

PROPERTY BOUNDARY
PROJECT BOUNDARY



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EF #6656

2020 AERIAL PHOTOGRAPH
for
PUBLIC WORKS TEMPORARY OFFICES

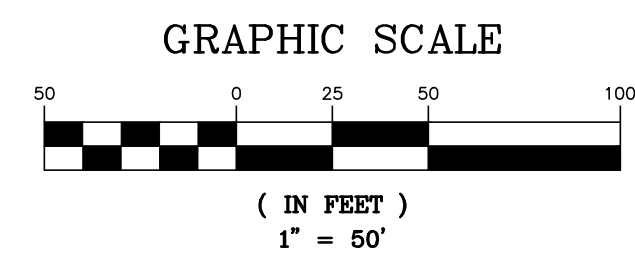
Revisions	Description

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Joshua J. Jennings,
Professional Engineer,
State of Florida
Registration No. 90677



PROJECT:	PUBLIC WORKS TEMPORARY OFFICES 1700 FLORIDA STREET PUNTA GORDA, FL 33950
OWNERSHIP:	CHARLOTTE COUNTY 16500 MURDOCK CIRCLE STE B208 PORT CHARLOTTE, FL 33948
ENGINEER:	THE WEILER ENGINEERING CORPORATION JOSHUA J. JENNINGS, P.E. NO. 90677 201 W. MARION AVE, SUITE 1306 PUNTA GORDA, FLORIDA 33950 941.505.1700
SURVEYOR:	BANKS ENGINEERING LICENCE NO.6690 4161 TAMiami TRAIL ~ BLDG 5 UNIT 501 PORT CHARLOTTE, FL 33952 941.625.1165
SEWER UTILITY:	CITY OF PUNTA GORDA UTILITIES
WATER UTILITY:	CITY OF PUNTA GORDA UTILITIES
WASTE COLLECTION:	WASTE MANAGEMENT

CONSTRUCTION PHASING: PROJECT TO BE CONSTRUCTED IN ## PHASE
DATE: NAVO 88
FLOOD ZONE: ZONE ON SITE:
"AE" 9" AS SHOWN ON:
F.E.M.A. FLOOD INSURANCE RATE MAP: # 12015C0242G
COMMUNITY # 12061 | PANEL # 0242 | SUFFIX: G
EFFECTIVE DATE : 12/15/2022
INDUSTRIAL INTENSIVE II
EXISTING ZONING:
FUTURE LAND USE: PUBLIC LANDS & FACILITIES
PARKING REQUIRED: 1 PER 200 SF
11,806 SF / 200 SF = 60 PARKING SPACES
PARKING PROVIDED: 158 EXISTING PARKING SPACES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DETERMINE THE SCOPE OF DEMOLITION WORK REQUIRED PRIOR TO CONSTRUCTION, WHETHER SPECIFICALLY SHOWN OR NOT.

2. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN THROUGHOUT THE COURSE OF CONSTRUCTION TO PREVENT DAMAGE TO LOSS ANY SUCH DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, PRIOR TO THE COMPLETION OF CONSTRUCTION.

3. EXISTING OPERATION SYSTEMS, SERVICES, AND UTILITIES SERVING THE SITE SHALL BE MAINTAINED IN OPERATION TO SERVE THE NEEDS OF PORTIONS OF THE SITE NOT INVOLVED IN THE WORK AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SUCH OPERATIONS TO PERFORM THE WORK. SUCH OPERATING SYSTEMS, SERVICES, AND UTILITIES INCLUDE BUT ARE NOT LIMITED TO: WATER, SEWER, GAS, ELECTRIC, TELEPHONE, CABLE, AND OTHER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR INTERRUPTING OR OTHERWISE AFFECTING ANY SUCH OPERATING SYSTEM, SERVICE, OR UTILITY. THE CONTRACTOR SHALL COORDINATE WITH OWNERS OF SUCH OPERATING SYSTEMS, SERVICES, AND UTILITIES TO DEVELOP A SCHEDULE FOR DISRUPTION OR OTHER CHANGE IN THE OPERATION OF THE AFFECTED SYSTEM, SERVICE, OR UTILITY.

4. CONTRACTOR SHALL BE RESPONSIBLE TO ARRANGE FOR SHUT OFF OF EXISTING UTILITIES AS REQUIRED.

5. CONTRACTOR SHALL ARRANGE ALL TEMPORARY POWER AS REQUIRED FOR CONSTRUCTION.

6. PROVIDE TEMPORARY SAFETY BARRIERS OR PARTITIONS, AS REQUIRED, AND COORDINATE SUCH LOCATIONS WITH OWNER. DEMOLITION SHALL BE COMPLETED IN A CAREFUL AND ORDERLY MANNER SO AS TO PREVENT DAMAGE TO ADJACENT AREAS AND COORDINATE WITH ALL AFFECTED PARTIES.

7. CONTRACTOR IS RESPONSIBLE FOR DEMOLISHING AND REMOVING ALL MATERIALS FROM PREMISES NECESSARY TO ACCOMPLISH THE SCOPE OF THE NEW WORK. ALL MATERIALS SHALL BE SALVAGED OR DISPOSED OF IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AT THE CONTRACTOR'S EXPENSE.

8. CONTRACTOR SHALL ENSURE SUFFICIENT ACCESS FOR EMERGENCY SERVICES IS PROVIDED AND MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION.

9. ALL WORK SHALL BE PERFORMED IN A MANNER THAT ENSURES THE CONTINUED OPERATION OF THE SITE AND THAT ENTERS ARE MAINTAINED. COORDINATE WITH ALL AFFECTED PARTIES REPRESENTATIVE FOR USE OF SITE AREAS REQUIRED TO FACILITATE DEMOLITION AND CONSTRUCTION ACTIVITIES.

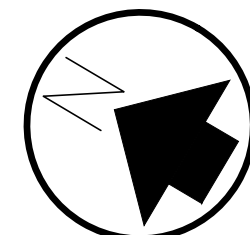
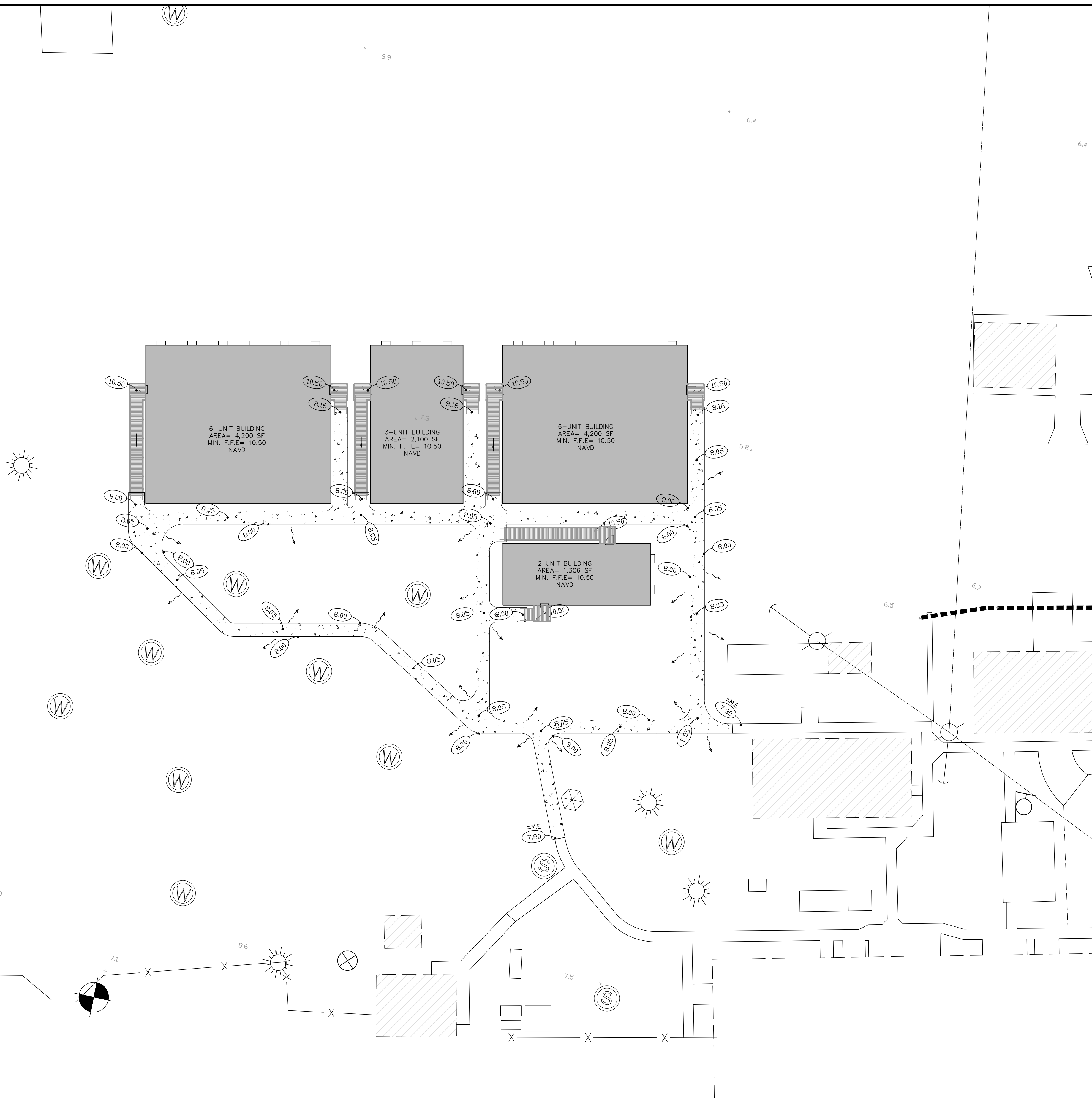
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Professional Engineer,
State of Florida,
License No. 90677
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Joshua J. Jennings, P.E.
on the date indicated here.

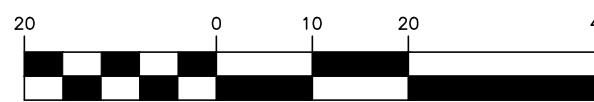
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Joshua J. Jennings
Professional Engineer
State of Florida
P. E. No. 12007





GRAPHIC SCALE



(IN FEET)
1" = 20'

PROJECT DATA:

PROJECT:	PUBLIC WORKS TEMPORARY OFFICES 1700 FLORIDA STREET PUNTA GORDA, FL 33950
OWNERSHIP:	CHARLOTTE COUNTY 18500 MURDOCK CIRCLE STE B208 PORT CHARLOTTE, FL 33948
ENGINEER:	THE WEILER ENGINEERING CORPORATION JOSHUA J. JENNINGS, P.E. NO. 90677 201 W. MARION AVE, SUITE 1306 PUNTA GORDA, FLORIDA 33950 941.505.1700
SURVEYOR:	BANKS ENGINEERING LICENSE NO.6690 4161 TAMIAH TRAIL - BLDG 5 UNIT 501 PORT CHARLOTTE, FL 33952 941.625.1165
SEWER UTILITY:	CITY OF PUNTA GORDA UTILITIES
WATER UTILITY:	CITY OF PUNTA GORDA UTILITIES
WASTE COLLECTION:	WASTE MANAGEMENT

GENERAL INFORMATION:

CONSTRUCTION PHASING:	PROJECT TO BE CONSTRUCTED IN # PHASE
DATUM:	NAVD 88
FLOOD ZONE:	ZONE ON SITE: "AE" AS SHOWN ON: F.E.M.A. FLOOD INSURANCE RATE MAP: # 12015C0242-G COMMUNITY # 12061 PANEL # 0242 SUFFIX: G EFFECTIVE DATE: 12/15/2022
EXISTING ZONING:	INDUSTRIAL INTENSIVE II
FUTURE LAND USE:	PUBLIC LANDS & FACILITIES
PARKING REQUIRED:	1 PER 200 SF 11,806 SF / 200 SF = 60 PARKING SPACES
PARKING PROVIDED:	158 EXISTING PARKING SPACES

SITE GENERAL NOTES :

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHARLOTTE COUNTY AND THE STATE OF FLORIDA.
2. THERE SHALL BE NO CHANGE OR DEVIATION OF THESE PLANS OR SPECIFICATIONS UNLESS PRIOR WRITTEN APPROVAL FROM THE ENGINEER IS OBTAINED.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF AND WHEN A POSSIBLE EROSION IS FOUND IN THE PLANS OR SITE ALIGNMENT AND/OR GRADE. THE ENGINEER SHALL HAVE THE AUTHORITY TO REJECT EXISTING CONDITIONS, OR REJECT THE FACILITY BEING CONSTRUCTED. IT IS IMPERATIVE THAT THE CONTRACTOR NOTIFY THE ENGINEER OF THESE SITUATIONS AS SOON AS POSSIBLE.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY ON-SITE OR OFF-SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EXACT LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS, WHETHER THEY ARE IDENTIFIED ON THE DRAWINGS OR NOT.
5. CONTRACTOR SHALL INCLUDE IN THE BID PRICE THE COST OF EROSION CONTROL MEASURES AS SHOWN ON THE DRAWING PLANS. EROSION AND SEDIMENT CONTROL, BEST MANAGEMENT PRACTICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND OBSERVED DURING CONSTRUCTION BY THE CONTRACTOR. MEASURES WHICH SERVE TO PREVENT EROSION, BUT ARE NOT LIMITED TO:
 - 6. A. THE CONTRACTOR SHALL UTILIZE SAND BAGS AND BALES AND/OR OTHER EROSION CONTROL METHODS TO CONTROL EROSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION ENTERING THE STORM DRAINAGE SYSTEM BOTH ON-SITE AND OFF-SITE.
 - 7. B. CONTRACTOR SHALL PLACE ADEQUATE TEMPORARY PROTECTION AROUND ALL INLETS TO MINIMIZE DAMAGE AND STORM DRAINAGE SITUATION.
 - 8. C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING CONSTRUCTION BY UTILIZING WATER TRUCKS, ANTI-DRIFT BARRIERS BY CONTRACTOR OR OTHER MEANS OF TRANSPORTING DUST.
 - 9. D. THE CONTRACTOR SHALL USE EXTREME CARE NOT TO DAMAGE THE ROOT SYSTEMS OF TREES AND OTHER LANDSCAPE FEATURES WHICH ARE TO BE SAVED AND/OR SALVAGED FOR RESTORATION PURPOSES, NO EQUIPMENT, SUPPLIES, VEHICLES SHALL BE ALLOWED TO BE PARKED WITHIN THE DROP LINE OF TREES TO REMAIN OR BE PRESERVED.
6. GRADE SITE AS INDICATED. ALL STORMWATER RUN-OFF SHALL BE DIRECTED TO THE STORMWATER MANAGEMENT SYSTEM.
7. THE CONTRACTOR SHALL SOD ALL DRAINAGE RETENTION AND SWALE AREAS. THE CONTRACTOR SHALL MAINTAIN A 10% BUFFER ZONE UNIT. IN THE OPINION OF THE ENGINEER, GROWTH IS FIRMLY ESTABLISHED.
8. AS PART OF CLEARING AND GRUBBING, ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE AND SALVAGED BY THE CONTRACTOR OR TRANSPORTED TO AN APPROPRIATE AREA FOR DISPOSAL AND EROSION CONTROL.
9. REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPING BUFFERS, TREE PRESERVATION, PLANT SCHEDULES, IRRIGATION, AND ALL LANDSCAPE WORK.
10. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICE CONNECTIONS, POWER POLE RELOCATIONS, POWER TRANSFORMER DETAILS AND LOCATIONS, CONDUITING, AND ALL ELECTRICAL WORK.
11. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDINGS AND STRUCTURE IMPROVEMENTS, GARAGE LAYOUTS, LIFE SAFETY, PROPERTY SETBACKS, ADA COMPLIANCE, AND ALL ARCHITECTURAL WORK.
12. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK.
13. IF IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE APPROPRIATE AGENCIES REGARDING THE NECESSARY PERMITS, EROSION POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) REQUIREMENTS THROUGHOUT CONSTRUCTION.
14. ALL SLOPES SHALL BE 4:1V HORIZONTAL, UNLESS OTHERWISE SPECIFIED.
15. ALL SIGNAGE SHALL CONFORM TO THE CURRENT EDITION OF THE U.S.O.D.'S FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

RIGHT-OF-WAY NOTES:

1. CONTRACTOR SHALL OBTAIN RIGHT-OF-WAY PERMIT FROM CHARLOTTE COUNTY AND/OR FDOT, PRIOR TO COMMENCING ANY WORK WITHIN THE RIGHT-OF-WAY. THE JURISDICTIONAL AUTHORITY SHALL APPROVE ALL RIGHT-OF-WAY IMPROVEMENTS (i.e. Pipe size, Material, Elevation, Slope, Grade, Structure, Sign locations, etc.) PRIOR TO CONSTRUCTION, DURING THE RIGHT-OF-WAY PERMIT REVIEW PROCESS.
2. ALL IMPROVEMENTS WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO CHARLOTTE COUNTY REQUIREMENTS.
3. ALL AREAS DISTURBED BY CONSTRUCTION IN CITY, COUNTY, OR STATE RIGHT-OF-WAYS SHALL BE REGRADED AND SODDED.
4. CONTRACTOR SHALL COMPLY WITH CHARLOTTE COUNTY TRAFFIC (MUT) POLICY, AND AS (REQUIRED) BE IMPROVED PRIOR TO ANY WORK BEING PERFORMED WITHIN ANY PUBLIC RIGHT-OF-WAY.

MAINTENANCE REQUIREMENTS:

1. REMOVE ANY TRASH OR DEBRIS FROM SWALES, INLET STRUCTURES, AND PIPES. SPECIAL CARE SHOULD BE TAKEN TO INSPECT THE DRAINAGE STRUCTURES ON A REGULAR BASIS TO REMOVE TRASH AND OR GRASS CLIPPINGS WHICH MAY INHIBIT PROPER SURFACE DRAINAGE.
2. INSPECT ANY AREAS SUBJECT TO EROSION AND SEED OR SOD AS NECESSARY.
3. ADHERE TO ALL SPECIAL MAINTENANCE INSTRUCTIONS AS PROVIDED BY THE PUBLIC MATERIAL SUPPLIERS/MANUFACTURERS, AND MAKE AVAILABLE VIA THE GENERAL CONTRACTOR UPON PROJECT COMPLETION.
4. COMPLY WITH ALL MAINTENANCE, INSPECTION AND REPORTING REQUIREMENTS AS SPECIFIED IN ANY REGULATORY AGENCY PERMITS (i.e. SWFWD SURFACE WATER MANAGEMENT PERMIT).
5. ALL WORK IDENTIFIED ON THESE PLANS SHALL COMPLY WITH ALL CONTRACT TECHNICAL SPECIFICATIONS AND ALL APPLICABLE REGULATIONS.

Approved By:	.	Design:	.
Scale:	.	Drawn:	PG
Job No:	24020.003	Checked:	.
Date Issued:	05/27/2025	.	.
		.	.

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 PUNTA GORDA, FLORIDA 33950
 941.505.1700
 EB #685

PAVING, GRADING, & DRAINAGE PLAN
for
PUBLIC WORKS TEMPORARY OFFICES[illegible]

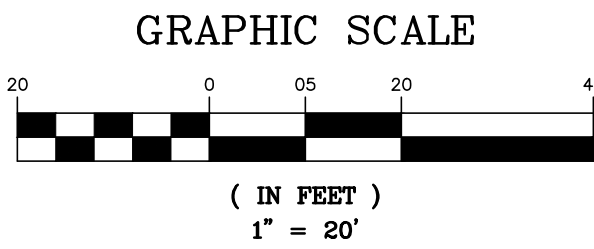
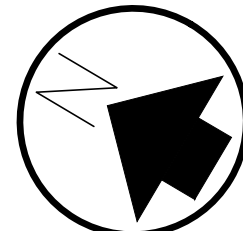
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Professional Engineer
State of Florida
Registration No. 90677

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- NOTE:
- EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY AND HAVE NOT BEEN FIELD VERIFIED.
 - CONTRACTOR TO LOCATE ALL UTILITIES WITHIN CONSTRUCTION AREA.
 - ELECTRIC CONNECTIONS ARE SHOWN FOR REFERENCE ONLY, COORDINATE INSTALLATION WITH FPL AND ELECTRICAL CONTRACTOR.



PROJECT DATA:

PROJECT: PUBLIC WORKS TEMPORARY OFFICES
1700 FLORIDA STREET
PUNTA GORDA, FL 33950

OWNERSHIP: CHARLOTTE COUNTY
18500 MURDOCK CIRCLE STE B208
PORT CHARLOTTE, FL 33948

ENGINEER: THE WELER ENGINEERING CORPORATION
JOSHUA J. JENNINGS, P.E. NO. 90677
201 W. MARION AVE, SUITE 1306
PUNTA GORDA, FLORIDA 33950
941.505.1700

SURVEYOR: BANKS ENGINEERING LICENCE NO.6690
4161 TAMAMI TRAIL - BLDG 5 UNIT 501
PORT CHARLOTTE, FL 33952
941.625.1165

SEWER UTILITY: CITY OF PUNTA GORDA UTILITIES

WATER UTILITY: CITY OF PUNTA GORDA UTILITIES

WASTE COLLECTION: WASTE MANAGEMENT

GENERAL INFORMATION:

CONSTRUCTION PHASING: PROJECT TO BE CONSTRUCTED IN # PHASE

DATUM: NAVD 88

FLOOD ZONE: ZONE ON SITE:
"AE 9" AS SHOWN ON:
F.E.M.A. FLOOD INSURANCE RATE MAP: # 12015C0242G
COMMUNITY # 12061 | PANEL # 0242 | SUFFIX: G
EFFECTIVE DATE : 12/15/2022

EXISTING ZONING: INDUSTRIAL INTENSIVE II

FUTURE LAND USE: PUBLIC LANDS & FACILITIES

PARKING REQUIRED: 1 PER 200 SF
11,806 SF / 200 SF = 60 PARKING SPACES

PARKING PROVIDED: 158 EXISTING PARKING SPACES

UTILITY GENERAL NOTES:

- THE REQUIREMENTS OF BIG COPPITT WASTEWATER STANDARD SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WASTEWATER UTILITIES WORK. THE REQUIREMENTS OF THE CITY OF PUNTA GORDA AUTHORITY MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS SHALL GOVERN ALL WATER UTILITIES WORK. WHERE A CONFLICT EXISTS IN THE REQUIREMENTS OF A REFERENCED MATERIAL, METHOD, OR INSTALLATION STANDARDS, THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL PREVAIL, WITH THE EXCEPTION THAT ALL WORK SHALL BE ACCEPTABLE TO THE AGENCY HAVING JURISDICTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, AT LEAST ONE COPY OF THE BIG COPPITT WASTEWATER STANDARD SPECIFICATIONS AND STANDARD DETAILS, ONE COPY OF THE CITY OF PUNTA GORDA AUTHORITY'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS, AND COPIES OF ALL REQUIRED CONSTRUCTION PERMITS INCLUDING ALL PROVISIONS AND REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL SITE CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, IN WRITING, AS SOON AS POSSIBLE. THE ENGINEER RESERVES THE RIGHT TO REVISE CONFLICTING INFORMATION FOR CONSISTENCY WITH THE DESIGN INTENT.
- ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE. THE ENGINEER RESERVES THE RIGHT TO REVISE CONFLICTING INFORMATION FOR CONSISTENCY WITH THE DESIGN INTENT. NO PAYMENT SHALL BE MADE FOR ACTIONS TAKEN BY THE CONTRACTOR UPON CONFLICTING OR OMITTED INFORMATION.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCING WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL PERMIT CONDITIONS AND GOVERNMENTAL REGULATIONS.
- CONTRACTOR SHALL CONTACT ALL AGENCIES AND COMPANIES WITH UTILITIES IN THE VICINITY OF THE PROJECT AND THE ENGINEER OF RECORD AT LEAST 48 HOURS IN ADVANCE OF ALL CONSTRUCTION OPERATIONS.
- NO CHANGES OR DEVIATIONS FROM THE PLANS OR SPECIFICATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD. THE ENGINEER REQUIRES 10 BUSINESS DAYS TO REVIEW AND APPROVE ANY FIELD CHANGE TO UTILITIES.
- CONTRACTOR SHALL VERIFY AND REPORT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT THEY ARE IDENTIFIED ON THE PLANS, PRIOR TO CONSTRUCTION, TO THE ENGINEER OF RECORD.

UTILITY CONSTRUCTION IN RIGHT-OF-WAYS

- OPEN ROAD CUTS REQUIRE PRIOR APPROVAL BY THE CITY, COUNTY, STATE AND/OR ANY OTHER AGENCY WHICH MAY HAVE JURISDICTION.
- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (CURRENT EDITION) OR AS OTHERWISE APPROVED.
- ALL AREAS WITHIN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS, OR BETTER, AND SODDED AT THE CONTRACTOR'S EXPENSE.
- STREET OR HIGHWAY RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH THE AGENCY HAVING JURISDICTION, AND SHALL BE INCLUDED IN THE CONTRACT PRICE DURING THE BIDDING PROCESS.
- CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE, COUNTY AND CITY AUTHORITIES REGARDING CLOSING OR RESTRICTING THE USE OF PUBLIC STREETS OR HIGHWAYS.
- THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY AGENCIES SERVING THE PROJECT PRIOR TO CONSTRUCTION AND ADHERE TO ALL REQUIREMENTS FOR SITE EMERGENCY ACCESS THROUGHOUT CONSTRUCTION.
- TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION.
- CONTRACTOR SHALL COMPLY WITH THE TRENCH SAFETY ACT (FL Stat §553.63) AND ITS SUCCESSORS.
- CONTRACTOR SHALL SUBMIT AND MAINTAIN PRE-APPROVED MOT PLANS FOR ALL REQUIRED TRAFFIC CONFIGURATIONS ON HAND AND AVAILABLE FOR ON-SITE INSPECTION AT ALL TIMES.
- CONTRACTOR SHALL INSTALL APPROPRIATE EROSION CONTROL DEVICES PRIOR TO CONSTRUCTION AND MAINTAIN EROSION CONTROL THROUGHOUT CONSTRUCTION.
- RESTORATION OF SODDING AND TURF SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 570-010.
- UNDERGROUND UTILITIES SHALL BE INSTALLED WITH AT LEAST 36" COVER IN ROADWAYS AND 30" IN ALL OTHER LOCATIONS IN ACCORDANCE WITH FDOT UAM SECTION 3.16.4.

LEGEND:

PROPOSED WATER SERVICE — W —

PROPOSED SEWER SERVICE — SS —

PROPOSED ELECTRIC LINE — — —

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WELER excellence in engineering
201 W. MARION AVE, SUITE 1306
PUNTA GORDA, FLORIDA 33950
941.505.1700
EE #6656

UTILITY PLAN
for
PUBLIC WORKS TEMPORARY OFFICES

Revisions									

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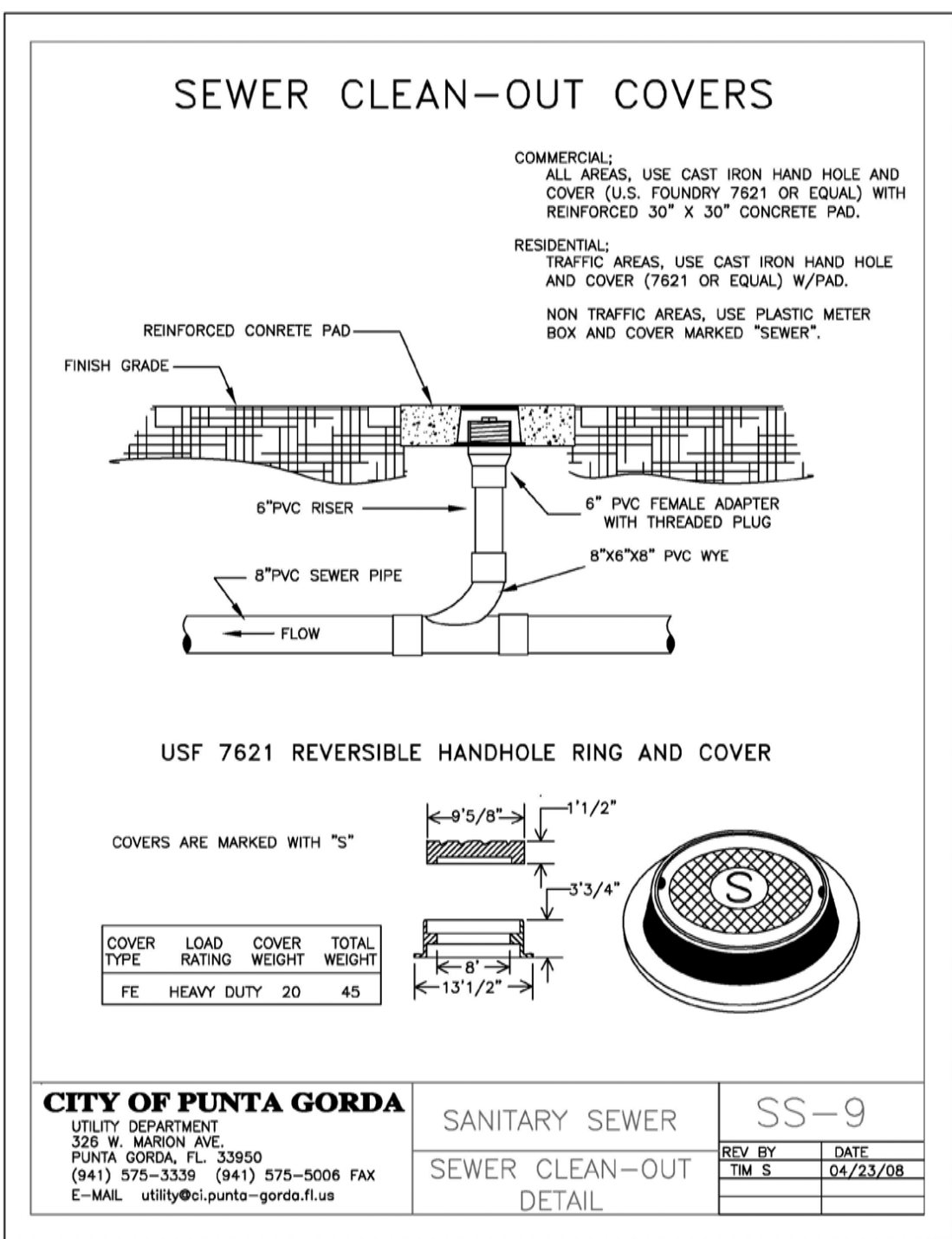
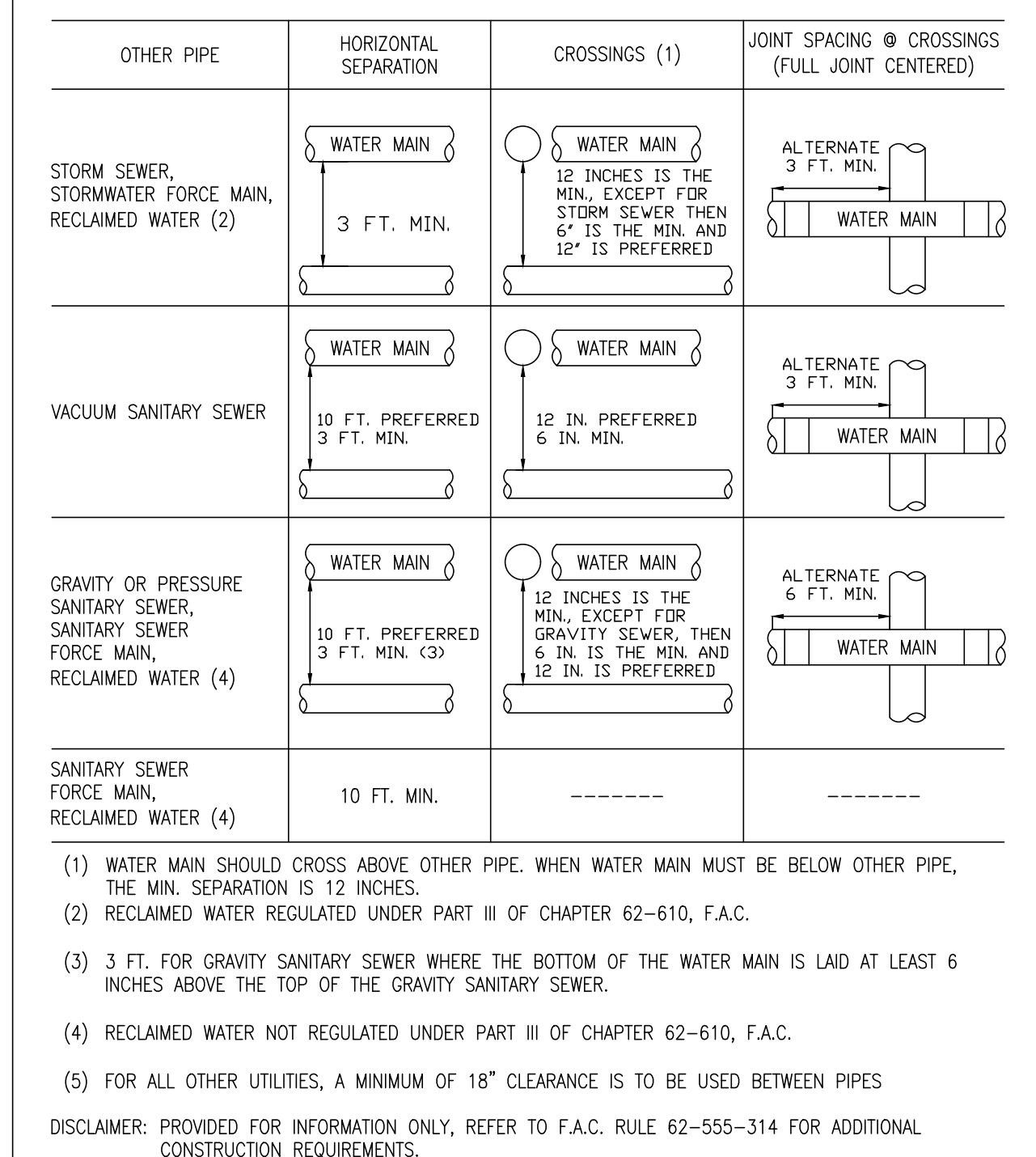
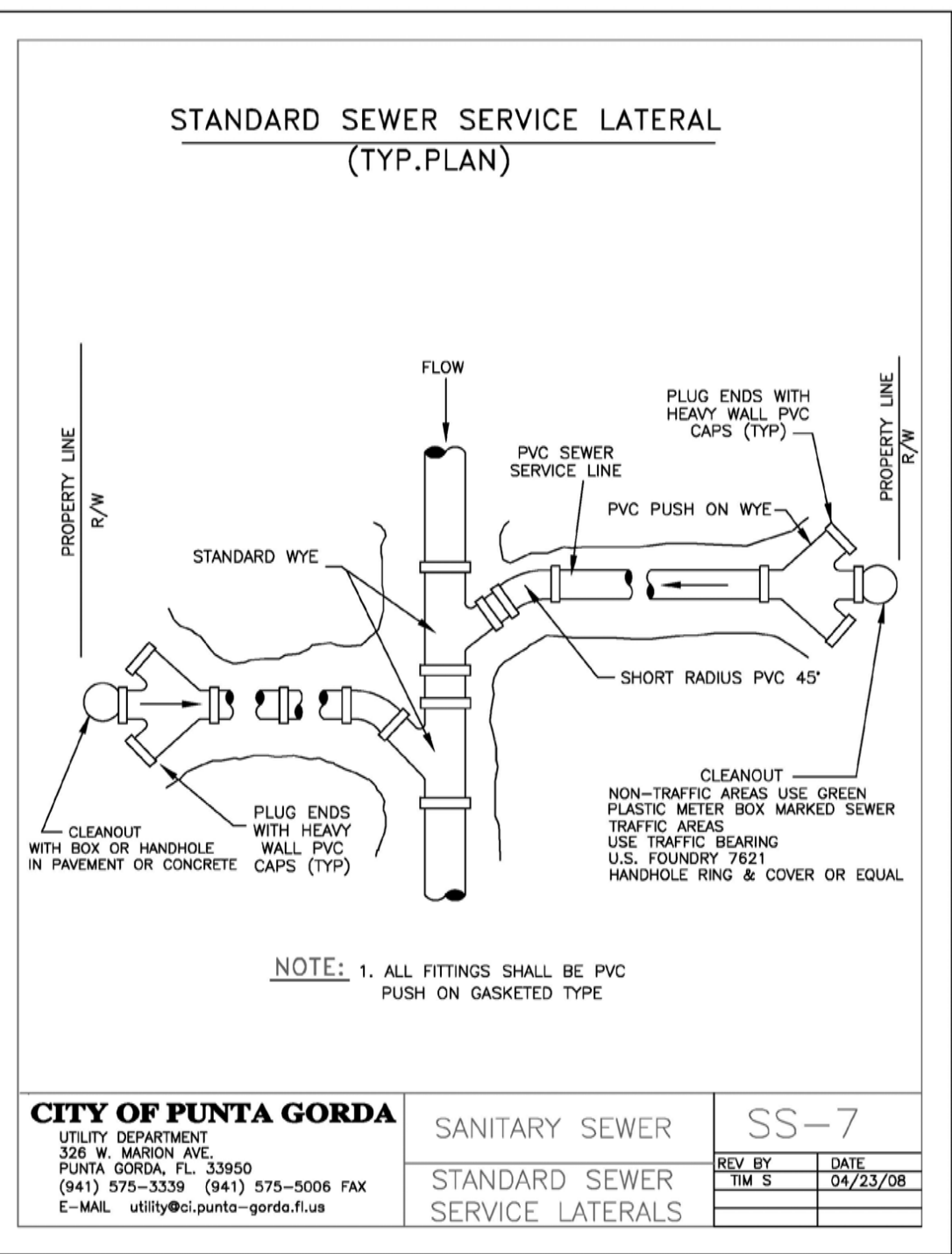
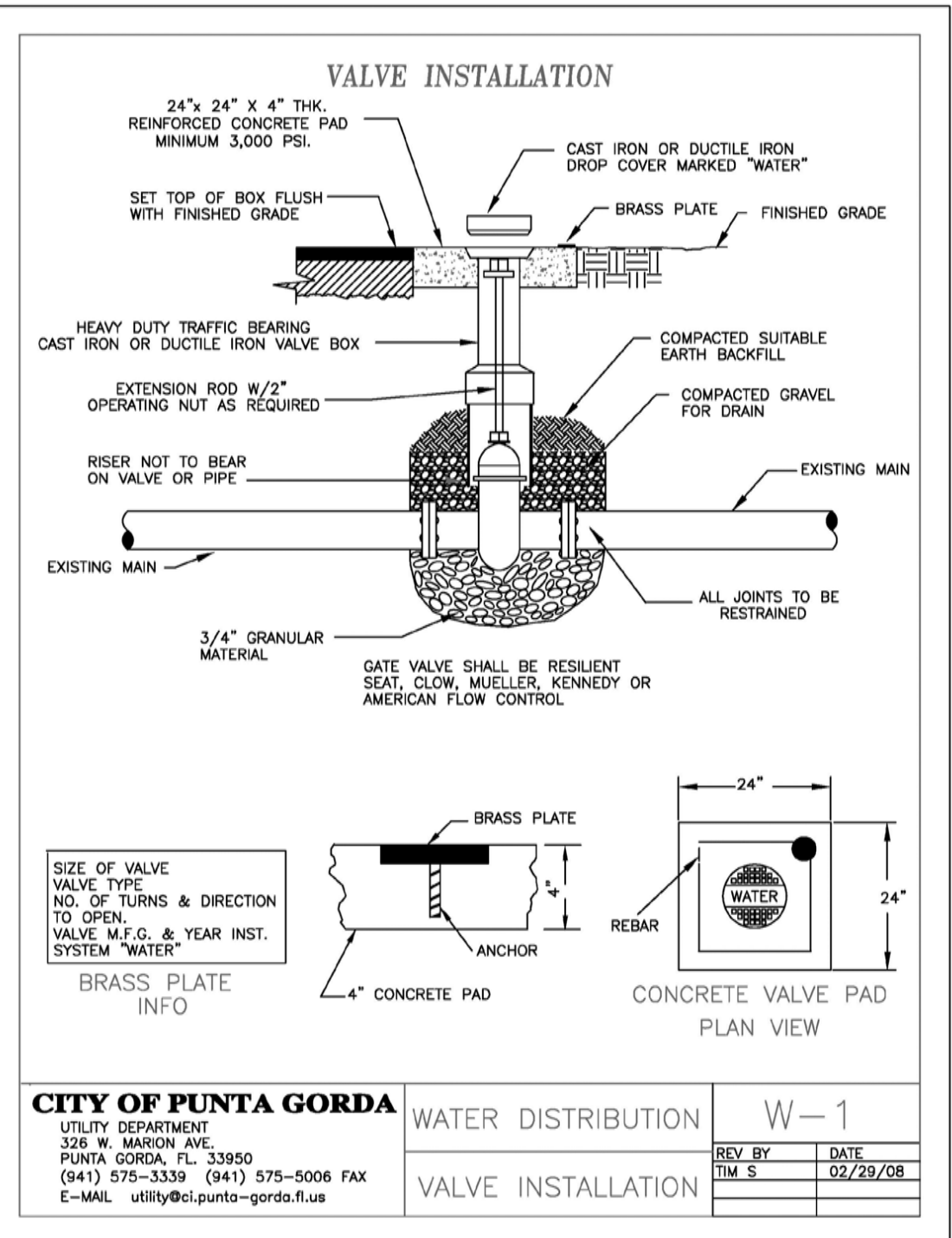
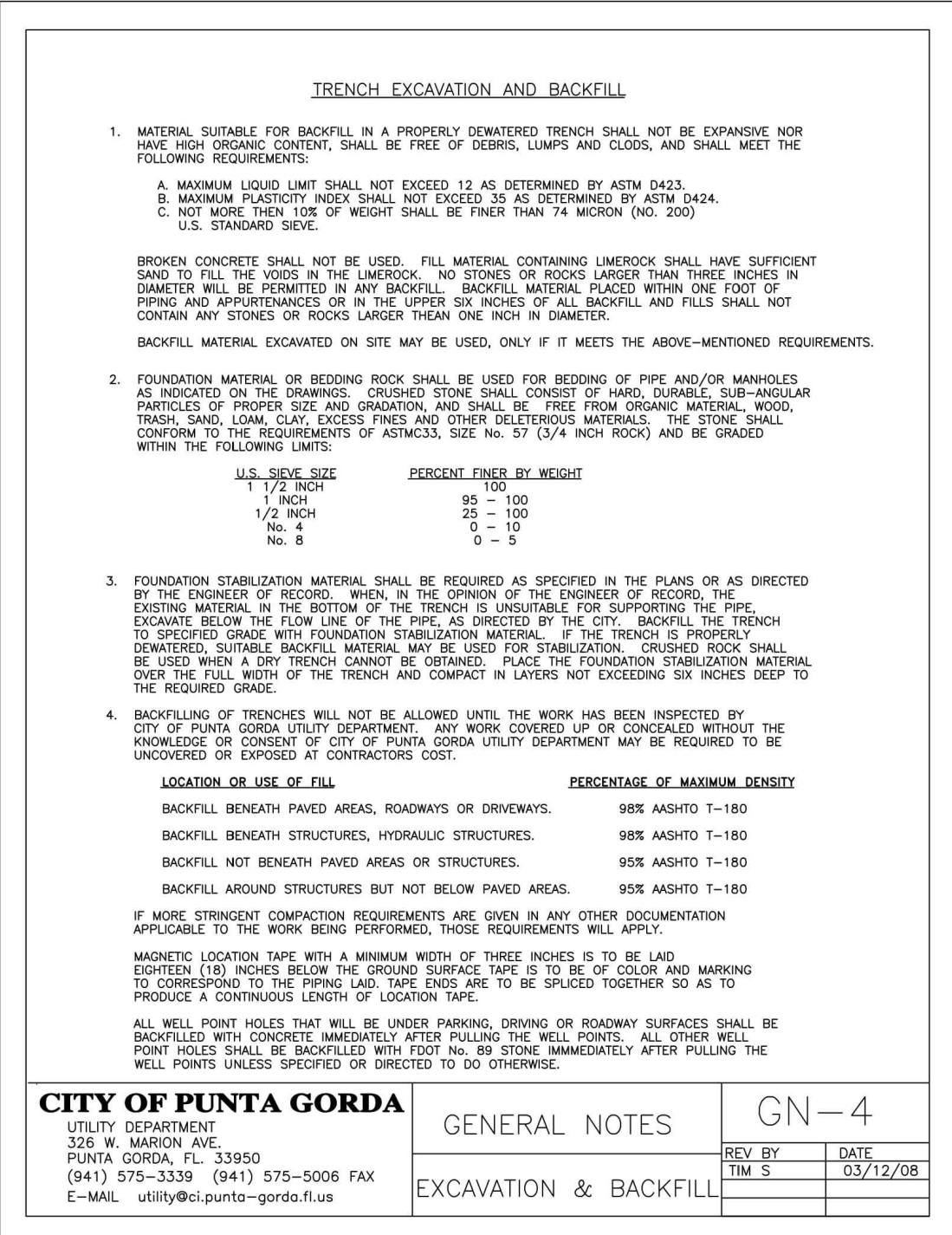
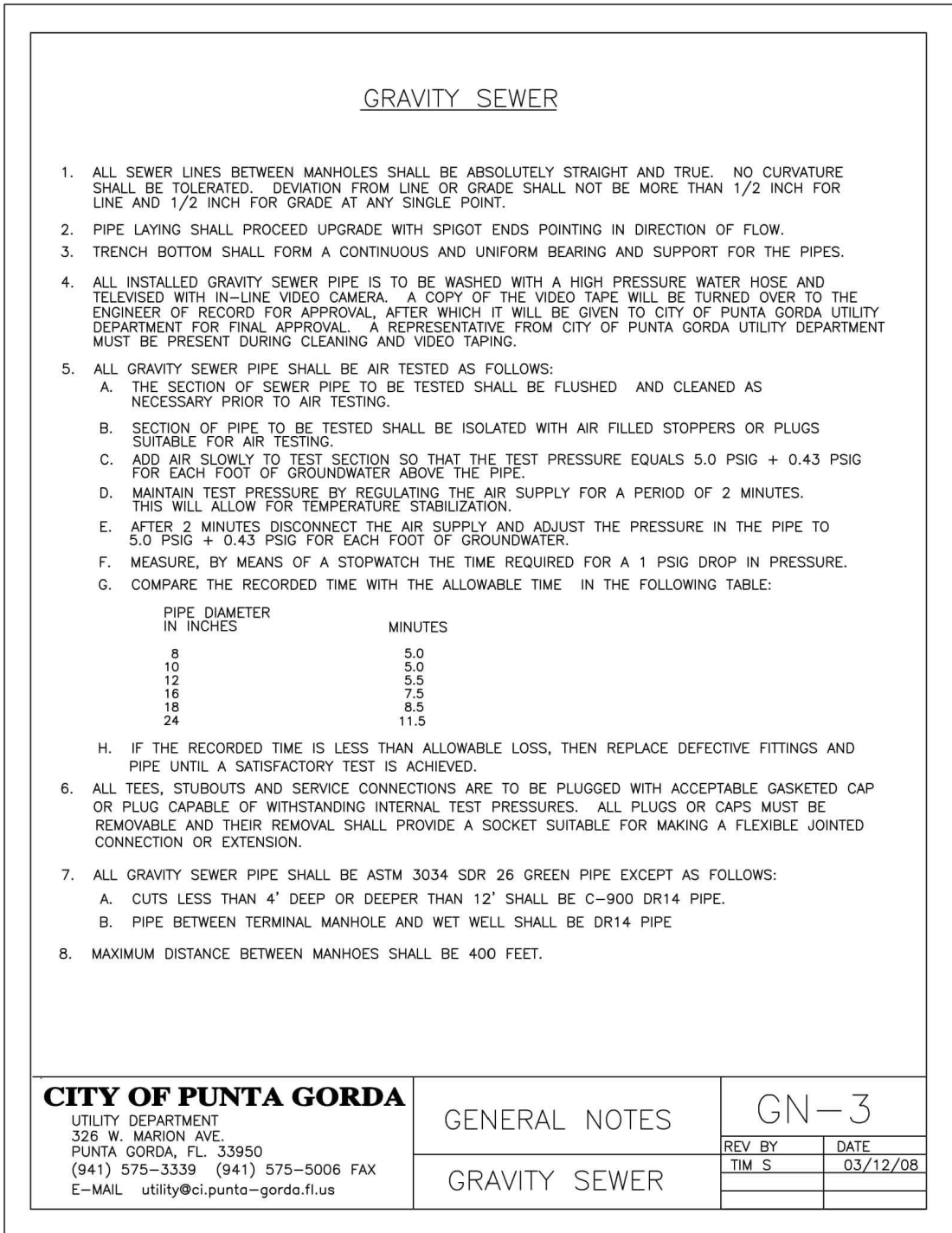
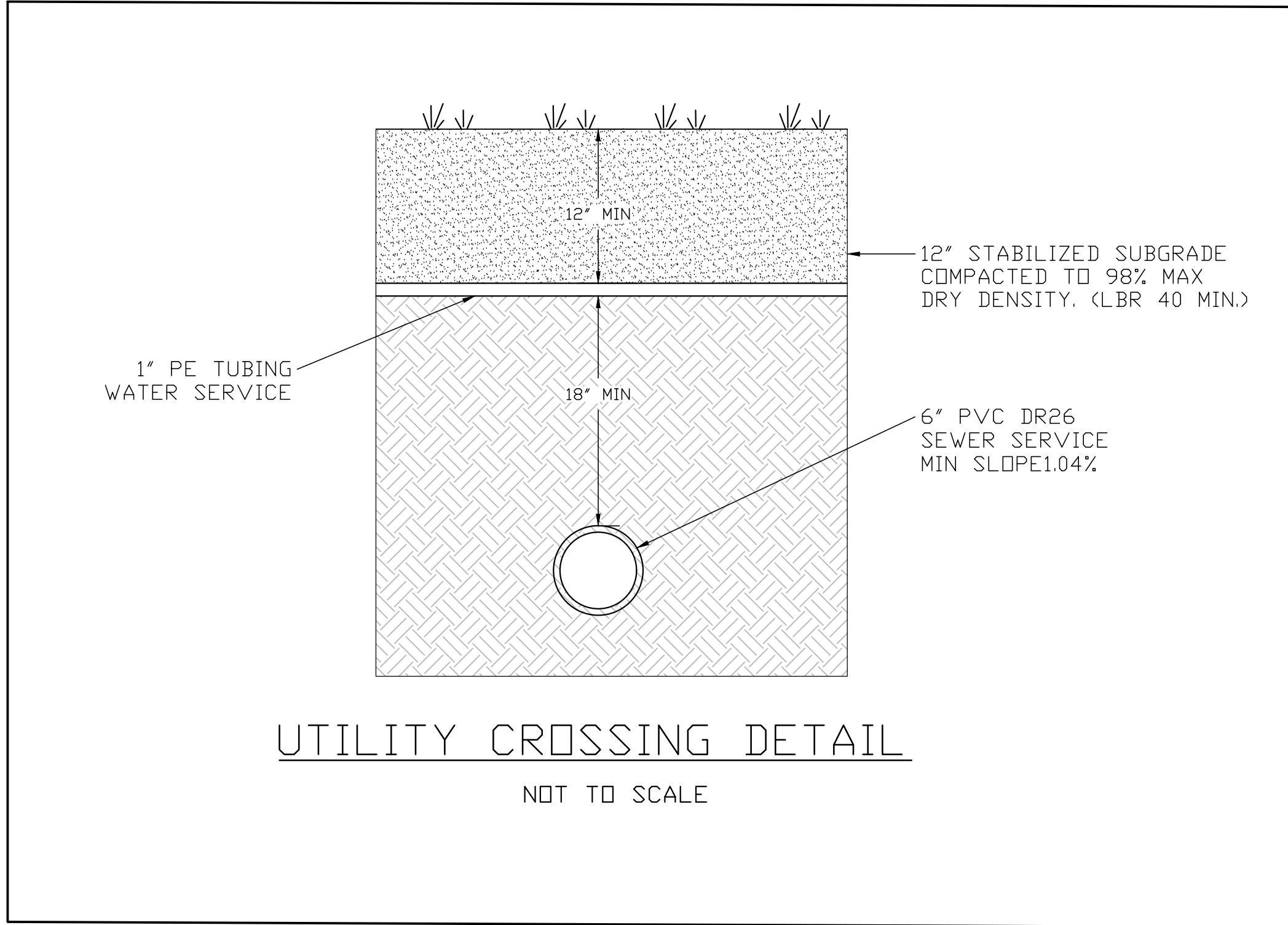
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Sheet No. C-6.0

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PC		24020.003	24020.003	05/27/2025

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Sheet No. C-6.1

SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS

1. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
2. IDENTIFICATION DEVICE COLORS, USE THOSE DESCRIBED BY ANSI A13.1, NFPA 70 AND THESE SPECIFICATIONS.
3. COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK).
4. TAPE MARKERS FOR CONDUCTORS, VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAP AROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
5. ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, 20 MIL. PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS $\frac{1}{8}$ -INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 10.0 IN. (25.4 CM) AND $\frac{1}{4}$ -INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LETTERING IN BLACK LETTERS ON WHITE BACKGROUND.
6. PLASTIC SIGNS, PROVIDE ALL STRIKES AND ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
7. COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
8. OUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICALS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS, SEAL ALL CONDUIT PENETRATIONS.
9. REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
10. ALL WORK SHALL COMPLY WITH FLORIDA BUILDING CODE 2023 7TH EDITION, AND N.E.C. 2023 EDITION
11. WITHIN 30 DAYS OF NOTICE TO PROCEED, CONTRACTOR SHALL SCHEDULE AND ATTEND A SITE MEETING WITH UTILITY REPRESENTATIVE TO COORDINATE LOCATION AND REQUIREMENTS FOR NEW ELECTRICAL SERVICE. NOTIFY ENGINEER OF ANY REQUIREMENTS IN EXCESS OF THOSE SHOWN ON THESE PLANS.

SECTION 16060 - GROUNDING AND BONDING

1. EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIED TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA70 ARE INDICATED.
2. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
3. ALL GROUNDING CONDUCTORS SHALL BE COPPER: COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
4. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.
5. GROUNDING ELECTRODE CONDUCTORS: STRANDED COPPER CABLE.
6. UNDERGROUND CONDUCTORS: BARE, TINNED, STRANDED, UNLESS OTHERWISE INDICATED.
7. CONNECTORS: COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.
8. IN RACEWAYS: USE INSULATED EQUIPMENT GROUNDING CONDUCTORS.
9. EXOTHERMIC-WELDED CONNECTIONS: USE FOR CONNECTIONS TO STRUCTURAL STEEL AND FOR UNDERGROUND CONNECTIONS.
10. GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE, UNLESS OTHERWISE INDICATED. AVOID OBSTRUCTION ACROSS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR DAMAGE.
11. BONDING STRAPS AND JUMPERS: INSTALL SO VIBRATION BY EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS OR SUPPORTS IS NOT TRANSMITTED TO RIGIDLY MOUNTED EQUIPMENT.

SECTION 16120 - CONDUCTORS AND CABLES

1. CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER.
2. CONDUCTOR INSULATION TYPES: TYPE THHN-THHN COMPLYING WITH NEMA WC 5 OR WC 7.
3. TYPE MC CABLE SHALL BE PERMITTED IN CONCEALED LOCATIONS, WHERE PERMITTED BY CODE.
4. BRANCH CIRCUITS CONCEALED IN CEILING, WALLS, AND PARTITIONS: TYPE THHN-THHN, SINGLE CONDUCTORS IN RACEWAY; TYPE MC CABLE.
5. GENERAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILING, AND FLOORS.
6. CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILING, AND FLOORS.
7. USE MANUFACTURER - APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DEGRADATE CONDUCTOR OR INSULATION, DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
8. IN EXPOSED LOCATIONS, ALL CONDUCTORS AND CABLES SHALL BE INSTALLED RACEWAY.
9. MAKE SPICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPliced CONDUCTORS.
10. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

SECTION 16130 - RACEWAYS AND BOXES

1. PERMANENTLY LABEL ALL RACEWAYS AND JUNCTION/PULL BOX COVERS TO INDICATE PANEL/CIRCUIT NUMBERS CONTAINED.
2. UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
3. MINIMUM RACEWAY SIZE: $\frac{1}{2}$ " TRADE SIZE.
4. KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAYS RUNS ABOVE WATER PIPING.
5. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF ENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
6. MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE, AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
7. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS.
8. INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
9. INSTALL RACEWAY SEALING FITTINGS AT SUITABLE, APPROVED AND ACCESSIBLE LOCATIONS AND FILL THEM WITH UL-LISTED SEALING COMPOUND.
10. INSTALL RACEWAY SEALING FITTINGS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES AND WHERE OTHERWISE REQUIRED BY NFPA 70.
11. FLEXIBLE CONNECTIONS. USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMI-RECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

SECTION 16140 - WIRING DEVICES

1. STRAIGHT-BLADE-TYPE RECEPTACLES, COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-5966, AND UL 498 STRAIGHT-BLADE AND LOCKING RECEPTACLES, HEAVY-DUTY GRADE, ALL 20A/120V RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE.
2. GFCI RECEPTACLES, STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLES; COMPLYING WITH UL 498 AND UL 943.
3. SINGLE- AND DOUBLE-POLE SWITCHES; COMPLY WITH DSCC W-C 898F AND UL 20.
4. SNAP SWITCHES, HEAVY-DUTY GRADE, QUIET TYPE.
5. DIMMERS SHALL BE SLIDE-TYPE, WITH PRESET. DIMMERS SHALL BE RATED FOR THE LOAD TYPE CONTROLLED (E.G., INCANDESCENT, LED, FLUORESCENT); DIMMERS SHALL BE RATED FOR 500V. MINIMUM; DERATE AS PER MANUFACTURER'S RECOMMENDATIONS FOR GANG INSTALLATION DEVICE & COVER PLATE FINISH; PER ARCHITECTS DESIGNATION, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70.
6. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
7. ARRANGEMENT OF DEVICES, UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTI-GANG WALL PLATES.
8. REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
9. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
10. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 16410 - ENCLOSED SWITCHES

1. ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
2. ALL ENCLOSED SWITCHES SHALL BE LOCKABLE.
3. MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
4. ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA-3R UNLESS NOTED OTHERWISE.
5. MOTOR STARTERS SHALL BE NEMA-RATED, WITH OVERLOADS SIZED PER LOAD. COORDINATE COIL VOLTAGE WITH CONTROLS.

SECTION 16511 - INTERIOR LIGHTING

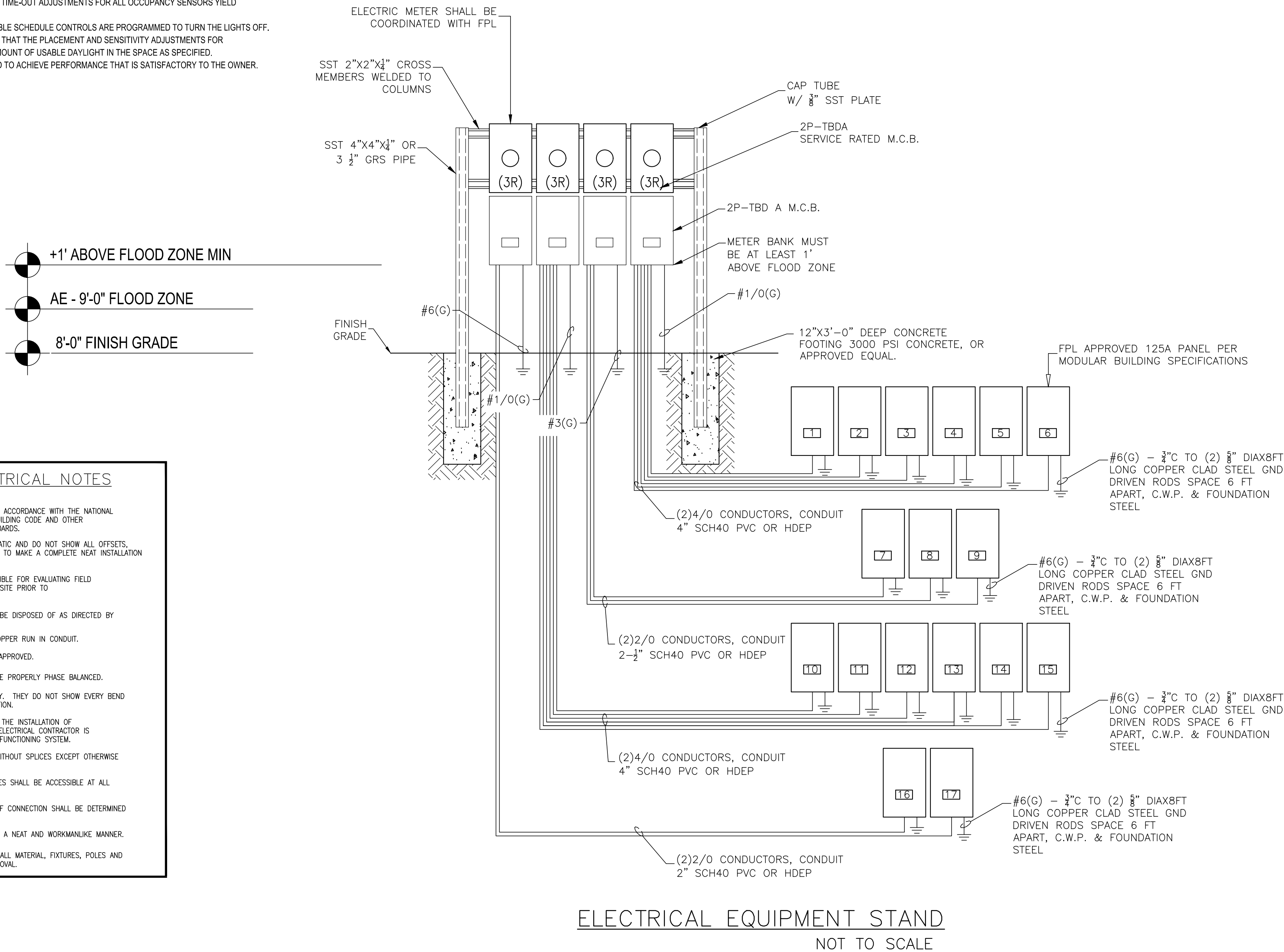
1. LIGHTING FIXTURES; PER FIXTURE SCHEDULE ON PROJECT PLANS.
2. UNLESS OTHERWISE INDICATED, FLUORESCENT BALLASTS SHALL BE ELECTRONIC, SOUND RATING A, THD LESS THAN 2%, CURRENT CREST FACTOR LESS THAN 1.7, OPERATING FREQUENCY GREATER THAN 20KHZ, WHEN DIMMERS ARE USED, PROVIDE COMPATIBLE DIMMABLE BALLASTS.
3. WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
4. FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
5. FOR EMERGENCY LIGHTING FIXTURES, PROVIDE UN-SWITCHED HOT CONDUCTOR OF AREA LIGHTING CIRCUIT AS INDICATED ON THE PLANS.
6. PROVIDE ALL BACK-BOLTS, SUPPORTS, STEMS, HARDWARE, LAMPS, AND BALLASTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

SECTION 16442 - PANEL BOARDS

1. MANUFACTURERS: PANEL BOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
2. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS, NEMA PB 1, TYPE 1.
3. PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
4. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL.
5. SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANEL BOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
6. FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
7. PANEL BOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.
8. MAIN OVER-CURRENT PROTECTIVE DEVICE: CIRCUIT BREAKER.
9. MAIN OVER-CURRENT CIRCUIT BREAKERS: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
10. MOUNT TOP OF TRIM 74 INCHES (1880 MM) ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
11. MOUNT PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANEL BOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH.
12. INSTALL FILLER PLATES IN UNUSED SPACES.
13. PROVIDE TYPE-WRITTEN PANEL DIRECTORIES, SHOWING ALL CIRCUITS.
14. PANEL BOARD NAMEPLATES: LABEL EACH PANEL BOARD WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH CORROSION-RESISTANT SCREWS.
15. WHERE BREAKER IS SERVING HARD-WIRED APPLIANCE WITHOUT A SEPARATE DISCONNECT (NOT WITHIN SIGHT), PROVIDE A PERMANENTLY INSTALLED PROVISION TO LOCK THE BREAKER IN THE "OFF" POSITION.
16. WHERE SURGE PROTECTIVE DEVICE IS INDICATED, PROVIDE UL-1449 LISTED TYPE 2 SURGE PROTECTIVE DEVICE. 40KA PER MODE MINIMUM.

ENERGY CONSERVATION REQUIREMENTS

1. WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS, OPERATING MANUAL, AND MAINTENANCE MANUALS TO THE BUILDING OWNER.
2. RECORD DRAWINGS SHALL INCLUDE: A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM; AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
3. CONTRACTOR SHALL PROVIDE OPERATING MANUALS AND MAINTENANCE MANUALS TO THE OWNER FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE; REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
4. CONTRACTOR SHALL PROVIDE TO THE OWNER NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
5. CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR ALL OCCUPANCY SENSORS YIELD ACCEPTABLE RESULTS.
6. CONTRACTOR SHALL CONFIRM THAT TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF WHERE DAYLIGHT HARVESTING IS USED. CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTO-SENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
8. CONTRACTOR SHALL PROGRAM AND ADJUST ALL CONTROLS AS NEEDED TO ACHIEVE PERFORMANCE THAT IS SATISFACTORY TO THE OWNER.



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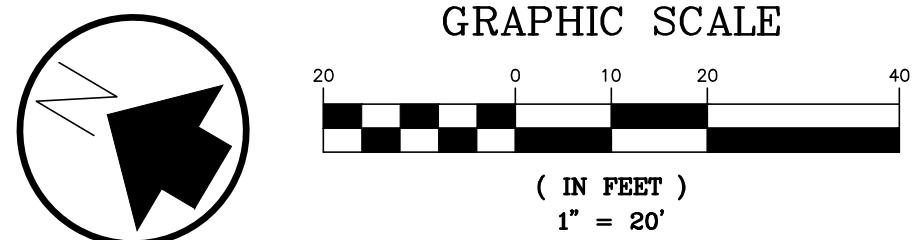
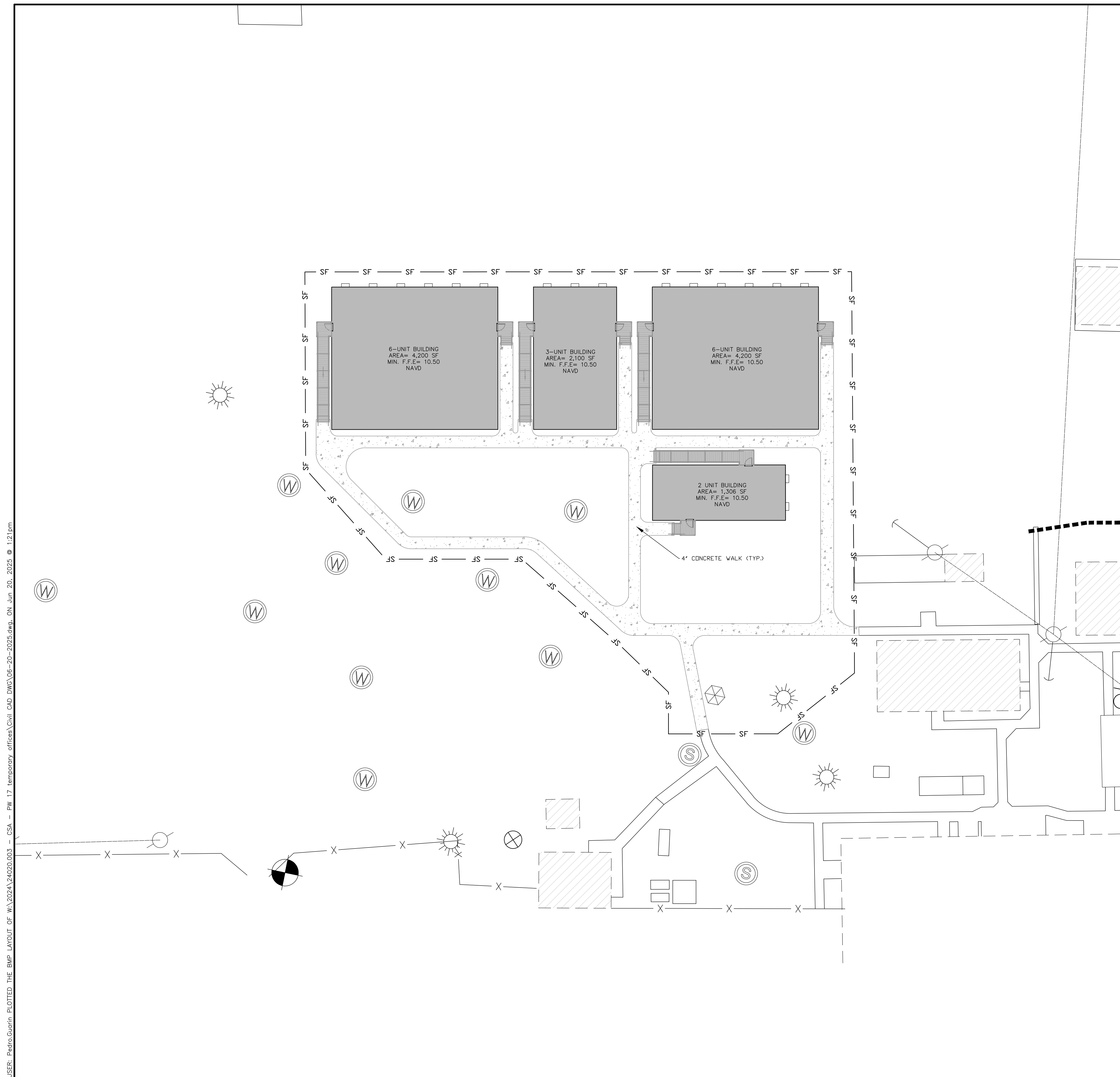
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EROSION CONTROL MAINTENANCE SCHEDULE

THE CONTRACTOR SHALL INSTALL SILT FENCE, SYNTHETIC BALES, AND OTHER EROSION CONTROL DEVICES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. THESE INSTALLATIONS AS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED THE MINIMUM EROSION/SILTATION PROTECTION REQUIRED FOR THE SITE. IN ADDITION THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE MAY DEEM IT NECESSARY TO INSTALL PROTECTIVE FACILITIES ELSEWHERE ON THE SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION PROTECTION FACILITIES THROUGH COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF THE FACILITIES TO ENSURE THAT THE EROSION PROTECTION FACILITIES ARE MAINTAINING THEIR PROTECTION FUNCTIONS AND INTEGRITY.

IN ADDITION TO THE INSTALLATION OF EROSION PROTECTION FACILITIES, THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE MAY DEEM IT NECESSARY, UPON INSPECTION OF THE SITE, THAT TURBIDITY MONITORING BE PERFORMED DURING CONSTRUCTION. THE MONITORING SHALL BE PERFORMED DAILY IF BACKGROUND TURBIDITY LEVELS REACH 25-29 NTU. IF BACKGROUND TURBIDITY LEVELS LESS THAN 25 NTU'S, TURBIDITY MONITORING SHALL BE PERFORMED WEEKLY. IF BACKGROUND TURBIDITY LEVELS ARE GREATER THAN 29 NTU'S, ALL CONSTRUCTION ACTIVITIES SHALL STOP AND THE CONTRACTOR SHALL PROVIDE AN ALTERNATE EROSION CONTROL MEASURE TO RETURN TURBIDITY LEVELS TO OR BELOW 25 NTU'S. CONSTRUCTION ACTIVITIES SHALL BEGIN A NEWLY APPROVED EROSION CONTROL MEASURE. CONSTRUCTION SHALL BEGIN A ONLY UPON APPROVAL BY THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE.

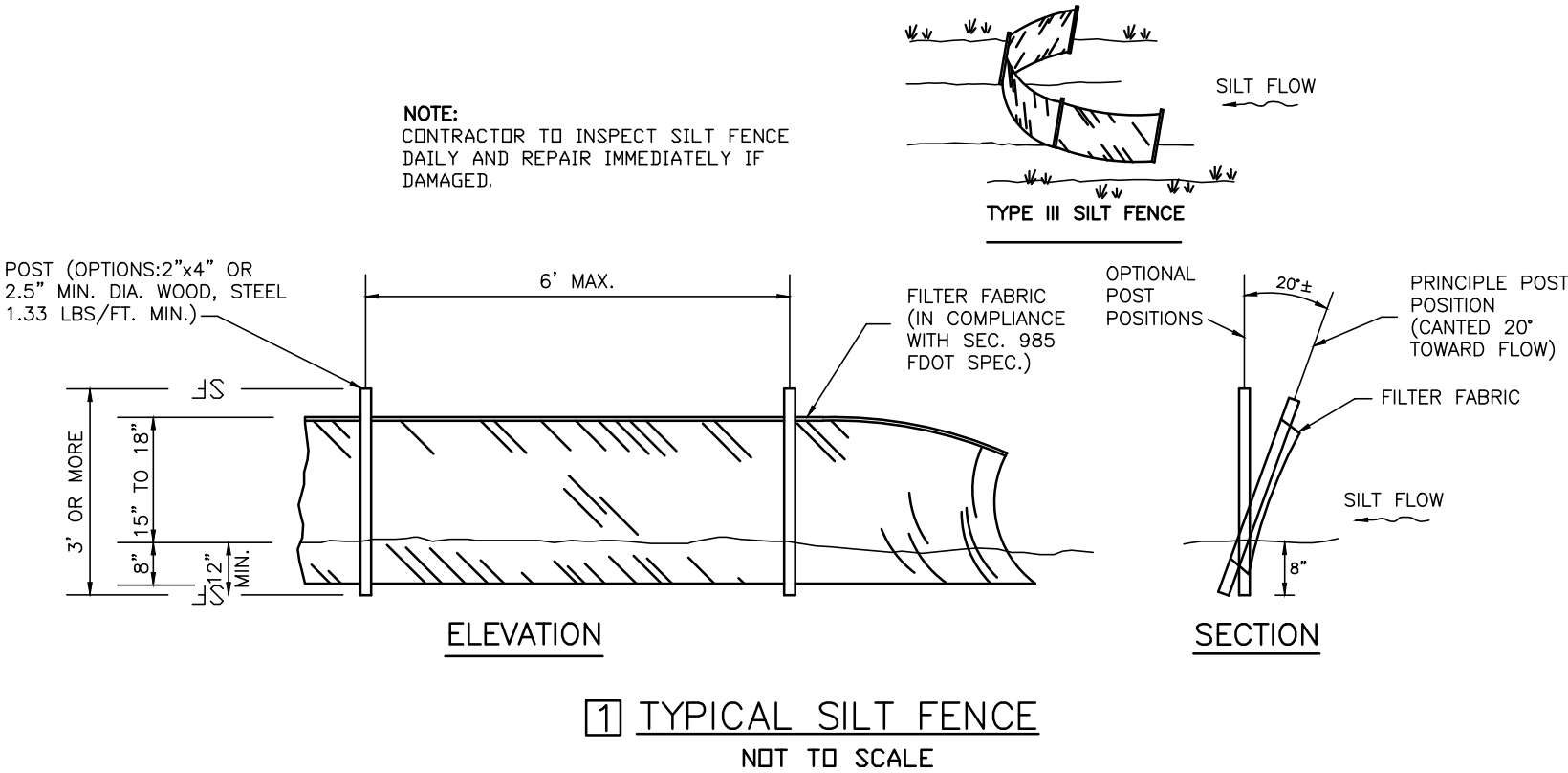
ALL EROSION PROTECTION FACILITIES SHALL BE REMOVED AFTER CONSTRUCTION COMPLETION, AND WHEN A VEGETATIVE COVER HAS BEEN WELL ESTABLISHED OVER THE CONSTRUCTED AREAS. PER THE PLANS: THE CONTRACTOR SHALL REMOVE PROTECTION FACILITIES ONLY UPON APPROVAL BY THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE.

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Registration No. 90677

PRE-BID SUBMITTAL

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH THE CONDITIONS FOR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN FROM THE OWNER A WRITTEN LIST OF ALL PERMITS AND COPIES THEREOF, AND CAREFULLY REVIEW ALL PLANS, SPECIFICATIONS, AND PERMITS PREVIOUSLY SECURED ON BEHALF OF THE OWNER. IN CASE OF ANY DISCREPANCY EITHER IN PERMIT DOCUMENTS, PLANS, DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR MUST PROMPTLY SUBMIT A "WRITTEN CLARIFICATION REQUEST" TO THE OWNER, WHO WILL PROMPTLY FORWARD SAME TO THE ENGINEER WHO WILL MAKE A DETERMINATION IN WRITING. THE CONTRACTOR MUST VERIFY EXISTING FACILITY INFORMATION, AND ALL DESIGN/PERMIT DATA REQUIRED FOR WORK THAT IS TO CONNECT WITH EXISTING FACILITIES. ANY DISCREPANCIES BETWEEN THE CONTRACT REQUIREMENTS AND THE EXISTING CONDITIONS MUST BE REFERRED TO THE OWNER, IN WRITING, FOR AN ENGINEERING DETERMINATION. ANY FUTURE ADJUSTMENT DUE TO FAILURE BY THE CONTRACTOR TO IDENTIFY THE RELATED DISCREPANCY, WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LICENSES, ADDITIONAL PERMITS, AND FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

CONSTRUCTION SAFETY AND LIABILITY

THE CONTRACTOR MUST TAKE PROPER SAFETY AND HEALTH PRECAUTIONS TO PROTECT THE WORK, THE WORKERS, THE PUBLIC, AND THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE ALSO FOR ALL MATERIALS DELIVERED AND WORK PERFORMED UNTIL COMPLETION AND ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE CURRENT VERSION OF THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGING THE PROPERTY OF OTHERS. PROPERTY THAT OCCURS AS A RESULT OF THEIR NEGLIGENCE. THE CONTRACTOR SHALL SAVE HARMLESS AND INDEMNIFY THE OWNER AND THE ENGINEER OF RECORD, ITS OFFICERS, REPRESENTATIVES AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/OR EXPENSES RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PROPERTY GROWING OUT OF OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLECT OR ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR, OR ANY SUBCONTRACTOR. CONTRACTOR SHALL COMPLY WITH THE TRENCH SAFETY ACT (FL STAT §563.63) AND ITS SUCCESSORS.

PRE-CONSTRUCTION

THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, TESTING LAB, UTILITY COMPANIES, AND APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMISSION SCHEDULE FOR ALL PROJECT MATERIALS AND COMPONENTS THE CONTRACTOR SHALL NOT INITIATE CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER AND UTILITY COMPANY SHALL ALSO DISCUSS ALL DOCUMENTATION REQUIRED FOR CONTRIBUTED FACILITIES TRANSFER FROM THE OWNER/DEVELOPER TO THE UTILITY COMPANY UPON PROJECT COMPLETION, UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY. UNLESS OTHERWISE SPECIFIED BY THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, AND POWER COMPANIES, 10 DAYS IN ADVANCE, TO THE PROJECT AREA, IN A SPECIFIC AREA, THE OWNERS AND THE ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER LINES, GAS LINES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, RIGHT-OF-WAY, OR EASEMENT.

PROJECT SIGN: (IF REQUIRED)

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A CONSTRUCTION PROJECT SIGN AT A LOCATION DIRECTLY ADJACENT TO THE WORK AREA. THE ENGINEER SHALL PROVIDE A SEPARATE SIGN FOR INSTALLATION BY THE CONTRACTOR AT THIS LOCATION. THESE SIGNS SHALL BE ERECTED WITHIN 15 DAYS AFTER RECEIVING A NOTICE TO PROCEED. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE THESE SIGNS AND RETURN TO WELLER ENGINEERING CORPORATION THEIR SIGN.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION

PROTECTION OF LAND RESOURCES

EXCEPT IN AREAS IDENTIFIED ON THE PLANS TO BE CLEARED, THE CONTRACTOR MUST NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS OR REMOVE OR CUT THEM WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. IN THE ABSENCE OF A CLEARING PLAN, AREAS SHOWN FOR IMPROVEMENTS SHALL BE CLEARED UNLESS NOTED OTHERWISE.

PROTECTION OF WATER RESOURCES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL, COUNTY AND MUNICIPAL LAWS CONCERNING POLLUTION OF WATER RESOURCES. ALL WORK MUST BE PERFORMED IN SUCH A MANNER THAT OBJECTABLE CONDITIONS WILL NOT BE CREATED IN PUBLIC WATERS RUNNING THROUGH, OR ADJACENT TO THE PROJECT AREA.

- EROSION AND SEDIMENT CONTROL - ALL PRACTICABLE AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR ONTO OTHER PROPERTIES. A. STORMWATER FACILITIES ARE TO BE BUILT AS EARLY IN THE CONSTRUCTION PHASE AS POSSIBLE TO ENSURE THE TREATMENT OF STORMWATER RUNOFF. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS TERMS, SEDIMENT BASINS, GRASSING, SODDING, FLOATING, GRADED HAY OR STRAW, FLOATING SILT, BARRIERS, STACKED SILT BARRIERS, ETC. MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND OPERATIONAL.
- REVEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
- FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.
- PROHIBIT THE USE OF ANY CONSTRUCTION EQUIPMENT THAT LEAKS EXCESSIVE AMOUNTS OF FUEL OIL, OR HYDRAULIC FLUID.
- DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, EXCEPT RETENTION AREAS, AND SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING AND MULCHING ARE CALLED FOR ON THE PLANS. THE LATEST VERSION OF THE F.D.O.T. ROAD AND BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

CONTRACTOR IS RESPONSIBLE FOR STABILIZING AND MAINTAINING SLOPES AND SOD THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

PROTECTION OF FISH AND WILDLIFE

THE CONTRACTOR SHALL AT ALL TIMES PERFORM ALL WORK IN A WAY AND TAKE STEPS AS REQUIRED TO PREVENT ANY INTERFERENCE WITH OR DISTURBANCE TO FISH AND WILDLIFE. THE CONTRACTOR SHALL NOT ALTER WATER FLOWS OR OTHERWISE DISTURB NATIVE HABITATS AND JURISDICTIONAL WETLANDS LOCATED WITHIN AND/OR ADJACENT TO THE PROJECT AREA. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REGARDING THE PROTECTION OF FISH AND WILDLIFE THROUGHOUT CONSTRUCTION.

PROTECTION OF HISTORICAL AND ARCHEOLOGICAL RESOURCES

THE CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, AND LOCAL LAWS REGARDING THE RECORDING, PROTECTING, AND PRESERVING OF HISTORICAL AND ARCHEOLOGICAL RESOURCES. ALL ITEMS HAVING ANY APPARENT HISTORICAL OR ARCHEOLOGICAL INTEREST THAT ARE DISCOVERED IN THE COURSE OF ANY CONSTRUCTION ACTIVITIES CONSTITUTE AN ARCHEOLOGICAL FIND AND SHALL BE CAREFULLY PRESERVED. THE CONTRACTOR SHALL LEAD THE FIND TO AN UNDISTURBED AND IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

EARTHWORK

1. GENERAL

- SUBMITTALS
 - EROSION AND CONTROL MEASURES
 - CONSTRUCTION TESTS
 - SOIL CLASSIFICATION TESTS
 - PRESERVATION PLANS
- SITE EXAMINATION
 - CONTRACTORS, BEFORE SUBMITTING BIDS, SHALL INFORM THEMSELVES AS TO LOCATION AND NATURE OF THE WORK, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL AND LOCAL CONDITIONS PREVAILING AT THE SITE, AND OTHER MATTERS WHICH MAY IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT.
 - EXAMINE SOURCES OF INFORMATION CONCERNING GROUND WATER LEVEL, WHETHER SURFACE OR SUBSURFACE. EACH BIDDER TO DRAW HIS OWN CONCLUSION CONCERNING GROUND WATER LEVELS AND HOW WATER AFFECTS HIS WORK.
- SUBSURFACE INVESTIGATIONS
 - SUBSURFACE DATA, INCLUDING GROUND WATER ELEVATIONS OR CONDITIONS, IF SHOWN ON THE DRAWINGS OR ATTACHED TO THESE SPECIFICATIONS, ARE PRESENTED ONLY AS INFORMATION THAT IS AVAILABLE WHICH INDICATES CERTAIN CONDITIONS FOUND AND LIMITED TO THE EXACT LOCATIONS. SHALL NOT BE INTERPRETED AS AN INDICATION OF CONDITIONS THAT MAY ACTUALLY BE DEVELOPED THROUGH THE PERIOD OF CONSTRUCTION. BIDDERS SHALL EXAMINE THE SITE OF THE WORK AND MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS AND THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, AND THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO AND ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION.
 - WHERE EXISTING GRADES, UTILITY LINES AND SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR CORRECTNESS OF EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES AND SUBSTRUCTURES AND MAKE SURE THAT THEY ARE NOT AFFECTED BY THE WORK. BE RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR DEMOLISHED.
 - THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT THE COST OF CONSTRUCTION. THE CONTRACTOR SHALL NOT MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION EXCEPT SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD HE FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS CALCULATED OR ANTICIPATED BY HIM.
- BENCH MARKS AND MONUMENTS
 - MAINTAIN CAREFULLY EXISTING BENCH MARKS, MONUMENTS, AND OTHER REFERENCE POINTS IF DISTURBED OR DESTROYED, REPLACE AS DIRECTED.
- JOB CONDITIONS
 - CONDITION OF PREMISES: ACCEPT SITE AS FOUND AND EXCAVATE, FILL, COMPACT, AND BACKFILL SITE AS HEREINAFTER SPECIFIED.
 - PROTECTION
 - EXISTING STRUCTURES AND PROPERTY: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR INJURY TO ADJACENT STRUCTURES AND FACILITIES; PROVIDE AN EROSION AND SEDIMENT CONTROL PLAN TO PREVENT EROSION AND SEDIMENT FROM PLACING BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY AND SUPPORT OF SUCH STRUCTURES; BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT, ANY DAMAGE OR INJURY CAUSED THEREBY OR RESULTING THEREFROM. IF AT ANY TIME THE ROAD OR OTHER ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS TO SUPPORT SUCH STRUCTURES AND NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN CHANGED BY THE OWNER.
 - SIDEWALKS AND DRIVEWAYS: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT OR COLLAPSE OF ANY SIDEWALKS, CURBS OR STREET PASSAGES ON ADJOINING SITE; BE LIABLE FOR ANY SUCH MOVEMENT, SETTLEMENT OR COLLAPSE; REPAIR PROMPTLY SUCH DAMAGE WHEN SO ORDERED; INSTALL SUCH SHORING, INCLUDING SHIELDING, AS MAY BE REQUIRED DURING ANY EXCAVATION, TO PROTECT BANKS, ADJACENT PAVING, STRUCTURES AND UTILITIES.
 - RESPONSIBILITY: BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING TRUCTURES OR TO EQUIPMENT AND FURNISHINGS HOUSED THEREIN WHICH ARE DUE DIRECTLY OR INDIRECTLY TO CONSTRUCTION OPERATIONS, EXCEPT WHERE REMOVAL IS NECESSITATED BY SITE GRADING OR LOCATION OF NEW BUILDING. USE EVERY POSSIBLE PRECAUTION TO PREVENT INJURIES TO LANDSCAPING, DRIVES, CURBS AND WALKS ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.

II. EXECUTION

- GENERAL
 - IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC AND WORKMEN AND PROVIDE FOR THE PROTECTION OF ALL PROPERTY.
 - CONSTRUCTION: DO NOT CLOSE, OBSTRUCT OR STORE MATERIAL OR EQUIPMENT IN STREETS, SIDEWALKS, ALLEYS OR PASSAGEWAYS WITHOUT A PERMIT IN ACCORDANCE WITH LOCAL ORDINANCES, REGULATIONS AND CODES.
 - INTERFERENCE: CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS, AND OTHER FACILITIES.
 - PNEUMATIC TOOLS: WORK WITH PNEUMATIC OR VIBRATORY TOOLS WILL BE PERMITTED ONLY IN A MANNER WHICH CAUSES NO RELATED DAMAGES.
 - REMOVAL: UNLESS OTHERWISE NOTED OR SPECIFIED TO BE RELOCATED OR STORED, ALL MATERIALS REMOVED FROM THE PROPERTY-S-2009 MUST BE REMOVED TO BE REMOVED COMPLETELY AWAY FROM THE SITE BY HIM. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE SITE.
 - TEMPORARY STRUCTURES: REMOVE ALL TEMPORARY STRUCTURES WHEN THEY ARE NO LONGER REQUIRED.
 - REPAIR: CLEAN UP, REPAIR OR REPLACE AT NO COST TO OWNER ALL PROPERTY DAMAGED BY REASON OF REQUIRED WORK. ALL PATCHWORK SHALL MATCH EXISTING AND BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEW GRADED AREAS TAKE EVERY PRECAUTION TO PREVENT DAMAGE NECESSARY, TO PREVENT DAMAGE FROM EROSION OF FRESHLY GRADED AREA, WHERE ANY SETTLEMENT OR WASHING MAY OCCUR PRIOR TO ACCEPTANCE OF THE WORK, REPAIR AND RE-ESTABLISH GRADES TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CONSTRUCTION LIMITS AND DAMAGE TO ADJACENT PROPERTIES BY ERODED MATERIAL.
- LOCATIONS AND ELEVATIONS
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYS, MEASUREMENTS AND LAYOUTS REQUIRED FOR PROPER EXECUTION OF THE WORK. BUT LINES AND GRADES FROM EXISTING SURVEY CONTROL SYSTEM AND AS SHOWN ON DRAWINGS.
- CLEARING AND GRUBBING
 - WITHIN LIMITS OF AREAS DESIGNATED FOR GRADING AND SITE CONSTRUCTION WORK, REMOVE TREES, BRUSH, STUMPS, LIMBS, AND OTHER DEBRIS AND OTHER DELETERIOUS MATERIALS NOT REQUIRED TO REMAIN AS PART OF FINISHED WORK.
 - REMOVE ALL GRASS, PLANTS, VEGETATION AND ORGANIC MATERIAL FROM SAME AREA.
- STRIPPING
 - STRIP ALL TOPSOIL ORGANIC MATERIAL, SURFACE LITTER, RUBBLE, AND OVERBURDEN FOR ENTIRE DEPTH OF ROOT SYSTEM OF GRASS OR OTHER VEGETATION OVER THE LIMITS OF CONSTRUCTION.
- STOCKPILE TOPSOIL ON SITE WHERE DIRECTED.
- EXCAVATION
 - BEGIN EXCAVATION AFTER STRIPPING, CLEARING AND GRUBBING WHERE APPLICABLE, HAS BEEN COMPLETED.
 - EXCAVATE TO GRADES REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION. DEWATER AS NEEDED.
 - REMOVE "UNSATISFACTORY MATERIALS" ENCOUNTERED FROM THE BUILDING AREAS, AND OTHER NON-LANDSCAPED AREAS.
 - EXCAVATE IN SUCH A MANNER THAT QUICK AND EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED.
 - CLASSIFY EXCAVATED MATERIALS AND STOCKPILE SEPARATELY SUITABLE SOILS FOR USE AS BACKFILL MATERIALS. IF SUFFICIENT QUANTITIES OF EXCAVATED MATERIALS MEETING REQUIREMENTS FOR BACKFILL ARE NOT AVAILABLE ON SITE, PROVIDE MATERIALS MEETING THESE REQUIREMENTS.
 - STOCKPILE EXCAVATED MATERIAL SUITABLE FOR USE AS FILL AND BACKFILL.
- FILLING, BACKFILLING AND COMPACTING.
 - THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDE ROCK), SURFACES AFTER EXCAVATION, FILLING, AND COMPACTION OF SAID AREA TO LEVELS REQUIRED WITH SUITABLE BACKFILL MATERIAL.
 - MATERIALS: "SATISFACTORY FILL MATERIALS" AASHTO CLASSIFICATION A-3 OR BETTER SHALL BE USED IN FILLS AND BACKFILLS. "SATISFACTORY FILL MATERIAL" IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH. COMPACT AS SPECIFIED HEREIN NO MATERIAL SHALL BE PLACED ON SURFACES THAT ARE MUDDY.
 - COMPACTION: COMPACTION SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. MOISTEN OR AERATE MATERIAL AS NECESSARY TO PROVIDE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. COMPACT EACH LAYER TO NOT LESS THAN PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW DETERMINED IN ACCORDANCE WITH AASHTO T-180. INSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS HAS BEEN MAINTAINED PRIOR TO PLACING NEW LAYERS.
 - RECONDITIONING OF SUBGRADE: WHERE APPROVED CONTRACT SUBGRADE AREAS ARE DISTURBED BY THE CONTRACTOR'S SUBSEQUENT OPERATIONS OR AVERAGE WEATHER SUBGRADE SHALL BE SCARIFIED AND COMPACTED AS SPECIFIED HEREIN BEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION UNDER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
 - COMPACTION REQUIREMENTS
 - FILL UNDER LAWNS AND PLANTING: 95%
- TESTING
 - THE CONTRACTOR WILL PROVIDE THE SERVICES OF A TESTING LABORATORY TO PERFORM SPECIFIED TESTS, INSPECTIONS, INSTRUMENTATION AND INSPECTION OF THE WORK.
 - TESTS OF MATERIALS SHALL BE AS FOLLOWS:
 - SOIL CLASSIFICATION: ONE TEST FROM EACH TYPE OF MATERIAL ENCOUNTERED AND OR PROPOSED TO BE USED
 - LABORATORY TESTS FOR MOISTURE-CONTENT AND DENSITY ACCORDING TO AASHTO T-180: ONE TEST FOR EACH MATERIAL ENCOUNTERED AND/OR PROPOSED TO BE USED.
 - FIELD TESTS FOR MOISTURE CONTENT AND DENSITY: ONE TEST PER LAYER OF FILL PER 5,000 SQUARE FEET OF AREA.

DEWATERING

1.01 GENERAL

- DEWATERING CONSISTS OF PERFORMING ALL WORK NECESSARY TO REMOVE SURFACE WATER AND/OR CONTROL THE GROUND WATER LEVELS AND HYDROSTATIC PRESSURES IN ORDER TO PERMIT ALL EXCAVATION AND CONSTRUCTION UNDER THIS CONTRACT TO BE PERFORMED IN THE DRY.
- WORK OF THIS SECTION INCLUDES INSTALLATION, OPERATIONS, MAINTENANCE, SUPERVISION, SUPPLY, AND REMOVAL OF ALL EQUIPMENT, MATERIALS, AND THE DEWATERING EQUIPMENT.
- THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE POTENTIAL FOR EXCESSIVE RAINFALL, THE GROUND CONDITIONS, AND THE GROUND WATER CONDITIONS, GROUND WATER ELEVATION CAN FLUCTUATE. IT IS ANTICIPATED THAT ANY EXCAVATIONS MAY ENCOUNTER GROUND WATER TABLE.
- DRAINAGE OF THE SITE: AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN AND OPERATE ADEQUATE SURFACE AND SUBSURFACE DRAINAGE METHODS IN ORDER TO KEEP THE CONSTRUCTION SITE DRY AND IN SUCH CONDITION THAT PLACEMENT AND COMPACTION OF FILL MAY PROCEED UNHINDERED BY SATURATION OF THE AREA DURING CONSTRUCTION, THE SURFACE OF THE BACKFILL AREA SHALL BE LEFT IN SUCH CONDITION THAT PRECIPITATION AND/OR SURFACE WATER WILL RUN OFF WITHOUT PONDING.

1.02 METHOD

- THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DEWATERING REQUIREMENTS, MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED AND CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, AND THE FLOODING OF EXCAVATIONS OR DAMAGE TO STRUCTURES DOES NOT OCCUR. DRAIN SURFACE WATER AWAY FROM THE EXCAVATION.
- DISPOSE OF WATER REMOVED FROM THE EXCAVATION IN A MANNER THAT WILL NOT ENDANGER PUBLIC HEALTH, PROPERTY, OR PORTIONS OF THE WORK UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER THAT WILL CAUSE NO INCONVENIENCE WHATSOEVER TO THE OWNER OR TO OTHERS ENGAGED IN WORK AT THE SITE.
- DISPOSE OF WATER RESULTING FROM DEWATERING OPERATIONS IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS.
- CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF, SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, DRAINAGE CANALS, OR OTHER FACILITIES.
- DEWATERING SYSTEM SHALL BE SO DESIGNED AS TO PREVENT REMOVAL OF SOIL FINES FROM THE SITE DURING THE DEWATERING OPERATION.

PORTLAND CEMENT CONCRETE PAVING

1-01 QUALITY ASSURANCE

ACOMPLY WITH ACI STANDARDS RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES (AC316, LATEST EDITION)

1-02 REFERENCE STANDARDS

- THE FOLLOWING REFERENCE STANDARDS OF THE ISSUES LISTED BELOW BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THEREIN. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH HEREINAFTER SPECIFIED STANDARDS
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) (CURRENT VERSION)
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD (CURRENT VERSION)
 - FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS AND BRIDGE CONSTRUCTION SECTION 350 "CEMENT CONCRETE PAVEMENT" (CURRENT VERSION)
 - T-180 MOISTURE-DENSITY RELATIONS OF SOILS.

1-03 SUBMITTALS

- THE CONTRACTOR SHALL SUBMIT TWO COPIES OF TEST REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY AND CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THESE REPORTS SHALL INDICATE ALL TESTS PERFORMED AND SHALL INCLUDE A CERTIFICATION STATEMENT OF COMPLIANCE WITH THE PROJECT SPECIFICATIONS. TESTS SHALL BE PERFORMED UNDER THIS SECTION.
 - SUBMIT FOR REVIEW THE FOLLOWING:
 - CONCRETE DESIGN MIX AND PROVING FLEXURAL STRENGTH (MODULUS OF RUPTURE) TESTS
 - EXPANSION JOINT FILLER DATA
 - JOINT SEALER DATA
 - PROPOSED PAVING CONSTRUCTION PLAN WHICH SHALL SHOW THE CONCRETE PAVING JOINT TYPES AND LOCATIONS ANDSHALL INCLUDE A STATEMENT OF PROPOSED SEQUENCE AND SCHEDULE OF PAVING OPERATIONS
 - RESULTS OF CONCRETE TESTS
 - RESULTS OF FIELD TESTS OF LBR AND COMPACTION OF STABILIZED SUBGRADE.

1-04 MATERIALS

- STABILIZED SUBGRADE: PROVIDE 12 INCH STABILIZED SUBGRADE (LBR 40 MIN) COMPACTED TO A MINIMUM DENSITY OF 98% AS DETERMINED BY AASHTO T-180
- CONCRETE: CONCRETE FOR CONCRETE PAVEMENT SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. A SLUMP RANGE BETWEEN 2 TO 4 INCHES AND A 28 DAY MODULES OR RUPTURE OF 650 PSI AS DETERMINED BY THE REQUIREMENTS OF PARAGRAPH TESTING SPECIFIED HEREINAFTER.
- JOINT SEALER: JOINT SEALING SHALL CONFORM TO FEDERAL SPECIFICATIONS SS-S401 OR SS-S402 (COLD APPLIED)
- PREMOLDED EXPANSION JOINT FILLER: PREMOLDED EXPANSION JOINT FILLER SHALL CONFORM TO ASTM D1751-73

1-05 EXECUTION

- ACOMPLY WITH AC STANDARD 316-74 AND SECTION 350, FDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED HEREIN.
- FINAL GRADING: ALL CONCRETE PAVEMENT SHALL HAVE A MAXIMUM DEVIATION OF 1/8 INCH (PLUS/MINUS) FROM THE SPECIFIED SURFACE PLANE AND PLAN GRADES.
- THE SURFACE FINISH SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE, IN GENERAL, THE TEXTURE IS OF A MEDIUM BROOM FINISH AFTER FLOATING.
- JOINTS
 - CONTRACTOR JOINTS INDICATED ON DRAWINGS, OR AS REQUIRED, SHALL BE PLACED PERPENDICULAR TO THE DIRECTION OF THE CONCRETE. JOINTS SHALL BE CUT TO A DEPTH OF 1/4 OF THE SLAB THICKNESS BY CUTTING WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS OR BY SAWING WITH A BLADE PRODUCING A CUT NOT LESS THAN 1/8 INCH IN WIDTH. SAW JOINTS WITHIN 4 TO 6 HOURS OF CONCRETE PLACEMENT.
 - EXPANSION JOINTS SHALL BE PLACED WHERE INDICATED ON DRAWINGS, OR AS REQUIRED, USING 1/2 INCH THICK PREFORMED EXPANSION JOINT MATERIAL ANCHOR WITH APPROVED DEVICES TO PREVENT DISPLACEMENT DURING PLACEMENT AND FINISHING. EDGES SHALL BE ROUNDED WITH AN EDGING TOOL. JOINTS SHALL BE 1/2 INCH DEPTH OF CONCRETE EXCEPT THAT TOP EDGES SHALL BE 1/2 INCH BELOW THE FINISH CONCRETE SURFACE.
 - EXPANSION JOINTS SHALL BE SEALED TO THE SURFACE BY FILLING WITH JOINT SEALING COMPOUND. JOINTS SHALL BE CLEAN AND DRY BEFORE SEALING COMPOUND IS PUT IN PLACE.
 - CONSTRUCTION JOINTS ARE TO BE USED AT CONTRACTION JOINT LOCATIONS TO STOP CONCRETE POURS.

- CURING: CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE AND MECHANICAL INJURY FOR AT LEAST THREE DAYS AFTER PLACEMENT. A PIGMENTED LIQUID CURING MEMBRANE SHALL BE APPLIED IMMEDIATELY AFTER FINISHING, OPERATION AT THE RATE OF ONE GALLON TO NOT MORE THAN 200 SQUARE FEET.
- CLEANING AND SEALING JOINTS: JOINTS SHALL BE FILLED WITH JOINT-SEALING MATERIAL NO LESS THAN 8 HOURS AND WITHIN 2 WEEKS AFTER JOINTS ARE BUT. JUST PRIOR TO SEALING, EACH JOINT SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATERIAL INCLUDING ANY MEMBRANE CURING COMPOUND.
- TESTING: LABORATORY AND FIELD TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE. IN ADDITION, ALL RETESTING SHALL BE DONE AT CONTRACTOR'S EXPENSE.

- DESIGN MIXES AND TESTING REQUIREMENTS FOR THE CONCRETE PAVEMENT SHALL BE AS FOLLOWS:
 - FLEXURAL STRENGTH TESTS OF CONCRETE AS BASIS FOR DESIGN
 - SLUMP, MODULES OF RUPTURE AND 7-DAY AND 28 DAY COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE.
 - WHERE THE FLEXURAL STRENGTH OF THE CONCRETE IS SPECIFIED, MAKE ONE STRENGTH TEST AND ONE FLEXURAL TEST FOLLOWING (ASTM C109 AND ASTM C78) FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF PLACED PER DAY. NUMBER OF CYLINDERS SHALL BE THREE FOR STRENGTH TEST AND THREE FOR FLEXURAL TEST. TEST ONE AT THREE DAYS, ONE AT SEVEN DAYS AND ONE AT 28 DAYS

DISCLAIMER

- THIS WORK IS INTENDED SOLELY FOR THE REFERENCED PROJECT AND CLIENT ONLY AND IS NOT APPLICABLE TO ANY OTHER PROJECT OR CLIENT WITHOUT EXPRESS WRITTEN PERMISSION OF THE ENGINEER OF RECORD.
- ANY USE, RELIANCE UPON, OR DECISIONS, BY THIRD PARTIES BASED ON THIS WORK ARE THE RESPONSIBILITY OF SUCH THIRD PARTIES.
- NO INFORMATION PROVIDED IN THIS PLAN SET SHALL RELIEVE THE CONTRACTOR OR ANY THIRD PARTY OF THEIR RESPONSIBILITIES.
- THE CONTRACTOR(S) SHALL CONFORM TO ALL CONTRACT PLANS, TECHNICAL SPECIFICATIONS, UPFRONT DOCUMENTS, REQUIRED PERMITS, AND APPLICABLE GOVERNMENTAL REGULATIONS.
- THE CONTRACTOR AND ANY THIRD-PARTY IS RESPONSIBLE FOR THEIR OWN DUE DILIGENCE IN RESEARCHING ALL APPLICABLE STANDARDS, MATERIALS SPECIFICATIONS, PERMITS, REQUIREMENTS, AND METHODS FOR THEIR USABILITY, APPLICABILITY, AND AVAILABILITY, FOR THE PURPOSES SPECIFIED.
- IF THE CONTRACTOR DISCOVERS CONFLICTING INFORMATION WITHIN THE CONTRACT DOCUMENTS, AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION. THE ENGINEER RESERVES THE RIGHT TO REVISE CONFLICTING INFORMATION TO THE MOST STRINGENT REQUIREMENTS FOR CONSISTENCY WITH THE DESIGN INTENT.

PAVEMENT MARKINGS

1-01 QUALITY ASSURANCE

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS IN A NEAT AND ACCURATE MANNER.
- ALL EQUIPMENT SHALL BE OF A TYPE AND DESIGN WHICH WILL READILY OBTAIN AS TO THE CORRECT APPLICATION OF THE PAVEMENT MARKINGS BOTH AS TO THICKNESS OF COATING AND AS TO ALIGNMENT.

1-02 REFERENCE STANDARDS

- THE FOLLOWING PUBLICATIONS OF THE ISSUE LISTED BELOW, BUT REFERRED TO HEREINAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THEREIN:
 - FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT VERSION)
 - SECTION 710 PAINTED PAVEMENT MARKINGS
 - SECTION 711 THERMOPLASTIC MATERIALS, METHODS AND RESPONSIBILITY OF THE PUBLIC
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, CURRENT VERSION.

1-03 SUBMITTALS

- SUBMIT PAINT TESTS, AS SPECIFIED IN SECTION 971 OF FDOT SPECIFICATIONS AND AS APPLICABLE TO HEREINAFTER SPECIFIED MATERIAL
- MATERIALS AND COLORS
 - THERMOPLASTIC: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 711 OF THE FDOT SPECIFICATIONS.
 - PAINT: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 971 OF THE FDOT SPECIFICATIONS. (LATEX PAINT ONLY.)
 - COLORS: YELLOW AND WHITE PER FDOT, OR AS INDICATED ON DRAWINGS.

1-05 EXECUTION

- TIME OF APPLICATION: PAINTING SHALL BE DONE ONLY DURING DAYLIGHT HOURS AND AS FAR AS PRACTICAL, SHALL BE TERMINATED IN TIME TO PERMIT SUFFICIENT DRY BY SURFACE.
- WEATHER LIMITATIONS: NO PAINT SHALL BE APPLIED WHEN ANY MOISTURE IS PRESENT ON THE SURFACE TO BE PAINTED OR WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES
- PREPARATION OF SURFACE TO BE PAINTED: THE SURFACE WHICH IS TO BE PAINTED SHALL BE CLEANED, BY COMPRESSED AIR OR OTHER EFFECTIVE MEANS, IMMEDIATELY BEFORE THE START OF PAINTING AND SHALL BE CLEAN AND DRY WHEN THE PAINT IS APPLIED. ANY VEGETATION OR LOOSE SOIL SHALL BE REMOVED FROM THE PAVEMENT BEFORE STRIPING IS BEGUN.
- MIXING PAINT: THE PAINT SHALL BE THOROUGHLY MIXED BEFORE IT IS POURED INTO THE PAINTING MACHINE AND NO THINNING OF THE PAINT IN THE MACHINE WILL BE ALLOWED AT ANY TIME. BEFORE THE START OF EACH DAY'S WORK THE PAINT CONTAINER, THE CONCRETE AND THE SPRAY NOZZLE OF THE MACHINE SHALL BE THOROUGHLY CLEANED WITH PAINT THINNER OR OTHER SUITABLE CLEANER.
- PAINT APPLICATION: THE TRAFFIC MARKINGS SHALL BE OF THE SPECIFIED DIMENSIONS WITH CLEAN, TRUE EDGES AND WITHOUT SHARP BREAKS IN THE ALIGNMENT. A UNIFORM COATING OF PAINT SHALL BE OBTAINED AND THE FINISHED MARKINGS SHALL CONTAIN NO LIGHT SPOTS OR PAINT SKIPS. ANY STRIPES WHICH DO NOT HAVE A UNIFORM, SATISFACTORY APPEARANCE, BOTH DAY AND NIGHT, SHALL BE CORRECTED.
- PAINT APPLICATION: THE MINIMUM RATE OF APPLICATION FOR PAINT SHALL BE AS FOLLOWS:
 - FOUR INCH SOLID: 20 GALLONS PER MILE.
 - ANY OTHER WIDTH STRIPE OR MARKINGS: A DIRECT PROPORTION OF THE ABOVE
 - STRIPE CONFORMANCE TO THE REQUIREMENTS OF THIS SECTION AND LOCAL CODES.
- REQUIRED FILM THICKNESS: THE MINIMUM WET FILM THICKNESS FOR ALL PAINTED AREAS SHALL BE 15 MILS.
- ALIGNMENT OF STRIPES: WHERE A STRIPE DEVIATES FROM THE CORRECT ALIGNMENT, AS INDICATED BY THE STRING LINE, BY MORE THAN ONE INCH IN ANY 20 FOOT LENGTH, IT SHALL BE OBLITERATED AND THE STRIPE CORRECTED HEREINAFTER AS SPECIFIED IN PARAGRAPH "CORRECTIVE MEASURES"

1-06 CORRECTION OF PAINT MARKINGS

- PROTECTION OF STRIPES: NEWLY PAINTED STRIPES, OR OTHER MARKINGS, SHALL BE PROTECTED UNTIL THE PAINT IS SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THE MARKING WITHOUT DAMAGE FROM THE TIRES.
- REPAIR OF DAMAGED AREAS: ANY PORTIONS OF THE STRIPES DAMAGED BY PASSING TRAFFIC, OR FROM ANY OTHER CAUSE, SHALL BE REPAINTED AT THE CONTRACTOR'S EXPENSE.
- DIMENSION AND ALIGNMENT TOLERANCE
 - DIMENSIONS: NO MARKING SHALL BE LESS THAN THE SPECIFIED WIDTH. NO MARKINGS SHALL EXCEED THE SPECIFIED WIDTH BY MORE THAN 1/2 INCH.
 - ALIGNMENT TOLERANCES SHALL BE AS SPECIFIED IN PARAGRAPH 1-05 H.
 - CORRECTION RATES: ANY CORRECTIONS OF VARIATION IN THE WIDTH OF OR IN THE ALIGNMENT OF STRIPES SHALL NOT BE MADE ABRUPTLY BUT THE STRIPES SHALL BE RETURNED TO THE DESIRED WIDTH AT THE RATE OF AT LEAST 10 FEET FOR EACH 1/2 INCH OF CORRECTION.

1-08 CORRECTIVE MEASURES

- ALL PAINTED MARKINGS WHICH FAIL TO MEET THE SPECIFICATIONS, INCLUDING THE PERMISSIBLE TOLERANCES, OR ARE MARKINGS WHICH ARE DAMAGED BY TRAFFIC OR FROM OTHER CAUSES, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL DRIP AND SPATTERED PAINT SHALL BE REMOVED. WHENEVER IT IS NECESSARY TO REMOVE PAINT IT SHALL BE DONE BY MEANS WHICH WILL NOT DAMAGE THE UNDERLYING SURFACE. WHEN NECESSARY TO CORRECT A DEVIATION WHICH EXCEEDS THE PERMISSIBLE TOLERANCE IN ALIGNMENT, THAT PORTION OF THE STRIPE AFFECTED SHALL BE REMOVED AND REPAINTED IN ACCORDANCE WITH THESE SPECIFICATIONS.
- CORRECTIVE MEASURES: MISALIGNMENT, DEFECTIVE SURFACES, ETC., SHALL BE CORRECTED BY CHEMICAL AGENTS OR BY ANY OTHER TYPE OF MECHANICAL DEVICE WHICH WILL EFFECTIVELY REMOVE THE PAINT WITHOUT DAMAGE TO THE PAVEMENT SURFACE, OR PREVENT THE REAPPLICATION OF MARKINGS.

1-09 SPARE PARTS

- PROVIDE THE OWNER WITH A MINIMUM OF FIVE GALLONS OF TRAFFIC PAINT FROM THE SAME BATCH USED IN APPLICATION OF PAVEMENT MARKINGS. ALSO PROVIDE PAINT SPECIFICATIONS AND THE MANUFACTURER'S IDENTIFICATION NUMBER OF THE PAINT USED.

1-10 MARKING TYPE

- ANY PAVEMENT MARKINGS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.
- ANY PAVEMENT MARKINGS LOCATED ON-SITE SHALL BE PAINT UNLESS OTHERWISE INDICATED.

CONSTRUCTION TOLERANCES

THE FOLLOWING ARE THE ALLOWABLE DEVIATIONS FROM PROJECT DESIGN GRADES AND GRADIENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM AND DOCUMENT COMPLIANCE WITH THESE TOLERANCES PRIOR TO PROCEEDING FROM ONE PHASE OF CONSTRUCTION TO THE NEXT:

1. STORMWATER MANAGEMENT/DRAINAGE FACILITIES

- PERIMETER CONTAINMENT BERM
 - MINIMUM ELEVATION = DESIGN GRADE
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
- WATER CONTROL STRUCTURE:
 - MINIMUM GRATE ELEVATION = DESIGN GRADE
 - MAXIMUM GRATE ELEVATION = DESIGN GRADE + 0.10 FEET
 - MINIMUM CREST ELEVATION = DESIGN GRADE
 - MAXIMUM CREST ELEVATION = DESIGN GRADE + 0.05 FEET
 - MINIMUM BLEEDER ELEVATION = DESIGN GRADE
 - MAXIMUM BLEEDER ELEVATION = DESIGN GRADE + 0.05 FEET
 - MINIMUM TOP OF FILTER ELEVATION = DESIGN GRADE
 - MAXIMUM TOP OF FILTER ELEVATION = DESIGN GRADE + 0.05 FEET
- CATCH BASINS/INLETS/PIPE INVERTS:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
- SWALE GRADES/GRADIENTS:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MINIMUM FLOWLINE GRADIENT = 90% OF DESIGN GRADIENT
- PAVEMENT GRADES/GRADIENTS:
 - FLEXIBLE PAVEMENT GRADE: MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
 - FLEXIBLE PAVEMENT GRADIENTS: MINIMUM GRADIENTS = 90% DESIGN GRADIENT (CROSS SLOPE AND LONGITUDINAL SLOPE)
 - RIGID (CONCRETE) PAVEMENT GRADE: MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
 - MINIMUM GRADIENTS = 90% OF DESIGN GRADIENT (CROSS SLOPE AND LONGITUDINAL SLOPE)
 - MAXIMUM HANDICAP RAMP = 15:1 (GRADIENT UNLESS OTHERWISE SPECIFIED BY LOCAL CODES)
- WATER DISTRIBUTION/WASTEWATER COLLECTION FACILITIES
 - UNLESS OTHERWISE SPECIFIED BY THE LOCAL UTILITY COMPANIES, THE FOLLOWING ARE THE ALLOWABLE TOLERANCES FOR THESE ACTIVITIES:
 - MANHOLES AND PIPE INVERTS:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MINIMUM LINE GRADIENT = 90% OF DESIGN GRADIENT
 - ALIGNMENT/LOCATION OF APPURTENANCES: AS ALLOWED BY THE APPLICABLE UTILITY AND/OR LOCAL GOVERNMENTAL ENTITY. CONTRACTOR SHALL CONFIRM AND DOCUMENT THIS PRIOR TO CONSTRUCTION.
- ACCESS TO PEDESTRIAN AREAS
 - SIDEWALKS
 - MAXIMUM CROSS SLOPE = 2% OR LESS, NO DEVIATIONS ALLOWED
 - MAXIMUM RUNNING SLOPE = 5% OR LESS, NO DEVIATIONS ALLOWED

SUPPLEMENTAL SPECIFICATIONS

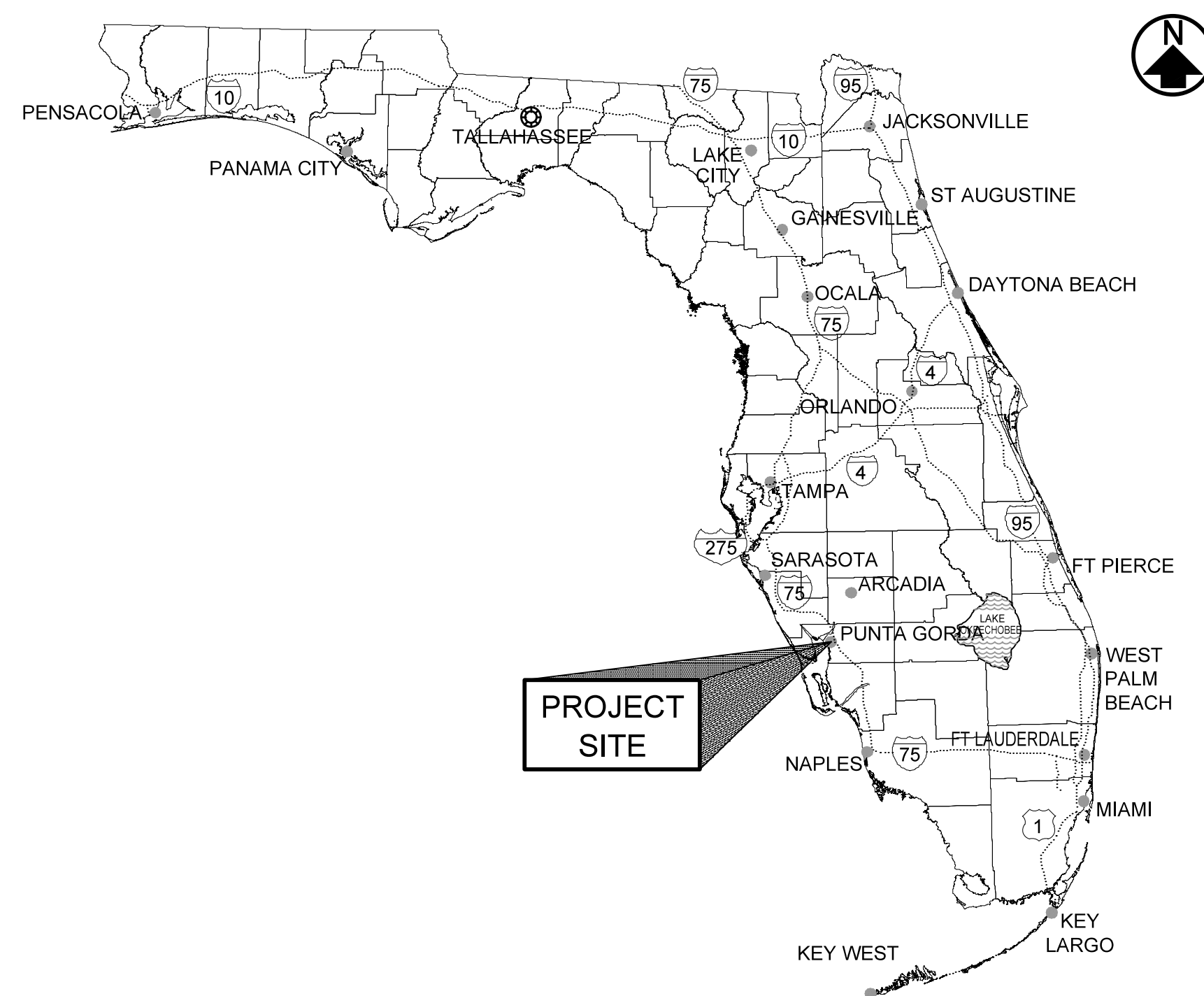
GENERAL

THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO THE SPECIFICATIONS AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL SITE

MODULAR UNIT FOUNDATION & BOARDWALK PLANS FOR PUBLIC WORKS TEMPORARY OFFICES

SECTION 09, TOWNSHIP 41 S, RANGE 23 E
COUNTY, FLORIDA

INDEX OF DRAWINGS



STATE OF FLORIDA LOCATION MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

OWNER

CHARLOTTE COUNTY
18500 MURDOCK CIRCLE STE B208
PORT CHARLOTTE, FL 33948

PREPARED BY

THE WEILER ENGINEERING CORPORATION
201 W. MARION AVE, SUITE 1306
PUNTA GORDA, FLORIDA 33950
(941) 505-1700



- C-1.0 COVER SHEET
- G-1.0 STRUCTURAL GENERAL NOTES
- S-1.0 BOARDWALK PLAN INDEX
- S-1.1 BOARDWALK PLAN
- S-1.2 BOARDWALK PLAN
- S-1.3 BOARDWALK PLAN
- S-1.4 LIFE SAFETY & CONCRETE WALK PLAN
- S-2.0 2 UNIT MODULAR FOUNDATION PLAN
- S-2.1 3 UNIT MODULAR FOUNDATION PLAN
- S-2.2 6 UNIT MODULAR FOUNDATION PLAN
- S-3.0 STAIR FRAMING PLAN, SECTION & ELEVATIONS
- S-4.0 BOARDWALK WIND CALCULATIONS

Digitally signed by Max Morgan
Date: 2025.05.27 12:34:28 -04'00'

THE WELER ENGINEERING CORPORATION

These Plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-22
Building Risk Category: RISK II
Design Wind Speed: Ultimate $V_{ult}=160$ MPH / Nominal $V_{nom}=124$ MPH
Wind Importance Factor: 1.0 / I Wind Exposure: C
Internal Pressure Coefficient: ±0.00
Component & Cladding Wind Speed: per Calcs

FLOOD PARAMETERS

FEAS FIRM Map Number: 12N15CO0242G
Base Flood Elevation: AC-99
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)

GEOTECHNICAL PARAMETERS

Data Source: Presumptive Load-Bearing Values of Soils, FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Capacity: 100 psf/ft (FBC 2023 Table 1806.2)

FOUNDATION SOIL AND TREATMENT

Soil Bearing Capacity Listed & the resultant foundation design assumes the soil type noted as per USGS web soil survey (<https://websoilsurvey.sc.egov.usda.gov/>). If inadequate substrate is discovered during site preparation the engineer shall be notified prior to placement of foundation.

WELER ENGINEERING CORPORATION "EXCELLENCE IN ENGINEERING"  --- An Apex Company --- 201 WEST MARION AVENUE SUITE 1306 PUNTA GORDA, FLORIDA 33950 PHONE: (941) 505-1700 FAX: (941) 505-1702		Project Information	
		Approved By:	Design: Drawn: Checked:
Scale: N.T.S.		TWP	
Job No. 24020.003		B7C	
Date Issued: 05/27/2025			
EB# 6656			
COVER SHEET PUBLIC WORKS TEMPORARY OFFICES CHARLOTTE COUNTY 7000 FLORIDA ST. PUNTA GORDA, FL 33950			
Description	Revisions		
THIS SHEET IS NOT VALID WITHOUT SIGNATURE AND LICENSE NO. OF A FLORIDA LICENSED ENGINEER.			
Max Morgan, Professional Engineer, State of Florida, License No. 94877 This item has been digitally signed and sealed by Max Morgan, P.E. on the date indicated here, 05-27-2025 Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.			
Max Morgan Professional Engineer State of Florida Registration No. 94877			
Sheet No.		C1.0	

GENERAL REQUIREMENTS

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY ERRORS, OMISSIONS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
2. ALL MATERIALS, EQUIPMENT, CONNECTORS, AND WORK SHALL MEET OR EXCEED THE DESIGN DATA AND COMPLIANCE CODE CITED.
3. ENGINEER IS NOT RESPONSIBLE FOR ANY SUPERVISION DURING CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO COMMENCING EXCAVATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR MAINTAINS THE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS AND TECHNIQUES REQUIRED FOR THE CONNECTIONS OF ALL PILINGS, DECK SYSTEMS AND STRUCTURES. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER.
6. THE STRUCTURAL INTEGRITY OF THE STRUCTURES SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT TO BE DAMAGED DURING CONSTRUCTION AND REQUIRE PROTECTIVE BRACING UNTIL PERMANENTLY APPLIED TO STRUCTURE AS DIRECTED. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION UNLESS THE CONSTRUCTION METHOD AND BRACING ARE INCLUDED IN THE PLANS AND SPECIFICATIONS, OR ARE SUPERVISED BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISION, AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
8. IN ADDITION TO THE DEMOLITION WORK INDICATED ON THE DRAWINGS, MINOR LOCAL DEMOLITION OF EXISTING ELEMENTS MAY BE REQUIRED TO PERFORM THE STRUCTURAL WORK AS INDICATED ON THE PLANS, SECTIONS, AND DETAILS.
9. DISCHARGE ALL DRAIN LINES, CONDENSATE LINES, DOWN SPOUT, ETC. AT LEAST 1'-0" FROM STRUCTURES
10. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER.
11. DISSIMILAR METALS SHALL BE ISOLATED TO PREVENT GALVANIC ACTION.
12. THE ENTIRE SCOPE OF WORK SHALL MEET THE 75 FOOT RILEY AND SQUARE FOOTAGE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 10 FOR NUMBER, TYPE AND PLACEMENT OF EXTINGUISHERS.
13. FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
14. THE STRUCTURAL DESIGN OF DOCKS AND BOARDWALKS IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISION FOR CONDITION DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION.

GENERAL STRUCTURAL SPECIFICATIONS

- | | | |
|--|---|---|
| 1. GOVERNING BUILDING CODE: 2023 FLORIDA BUILDING CODE 8TH EDITION (FBC) | | |
| 2. | DESIGN LOADS: | |
| | STRUCTURAL LOADS (LOADS PER FBC TABLE 1607.1) | |
| | LIVE LOAD | 100 PC |
| | DEAD LOAD | 20 PC |
| | STAIR DESIGN LOADS | |
| | LIVE LOAD | 60 PC |
| | CONCENTRATED LIVE LOAD | 300 |
| | HANDRAIL AND GUARDRAIL DESIGN LOADS | |
| | CONCENTRATED LOAD | 200 |
| | UNIFORM LINEAR LOAD | 50 PC |
| | GRAB BARS DESIGN LOADS (FBC, SECTION 1607.7) | |
| | SINGLE CONCENTRATED LOAD AT ANY POINT AND IN ANY DIRECTION
APPLIED AT TOP OF GUARDRAIL | 250 |
| | WIND LOADS (PER ASCE 7-22) | |
| | WIND-LOADING REGION (TABLE 1.5-1) | |
| | BASIC WIND SPEED (FGC, 26.5-1A) | |
| | Nominal | 124 M |
| | Ultimate (V_u) (THREE SECOND GUST) | 160 M |
| | IMPORTANCE FACTOR (TABLE 1.5-2) | 1 |
| | EXPOSURE CATEGORY (26.7-3) | EXPOSURE B |
| | INTERNAL PRESSURE COEFFICIENT (TABLE 26.13-1) | 0.10 |
| | COMPONENTS & CLADDING WIND PRESSURES | PER PUL |
| | GEOTECHNICAL DESIGN DATA (PER FBC 1806) | |
| | DATA SOURCE: PRESUMPTIVE LOAD-BEARING VALUES OF SOIL (FBC) | |
| | VERTICAL BEARING CAPACITY (TABLE 1508.2) | 1,500 PSF |
| | LATERAL BEARING CAPACITY (TABLE 1508.2) | 1,500 PC |
| | RAIN DESIGN DATA (PER FBC 1611) | |
| | DESIGN RAIN EVENT | 100-YEAR, 1-4" |
| | DESIGN RAINFALL (FIG. 1611.1) | 4.5" |
| | FLOOD DESIGN DATA (PER FBC 1612) | |
| | FEMA FIRM MAP | 1201 SC0242 |
| | BASE FLOOD ELEVATION | AE-09 COAST |
| 3. | MATERIALS | |
| | CONCRETE (NORMAL WEIGHT, 28 DAY COMPRESSIVE STRENGTH): | |
| | SLAB ON GRADE AND FOOTINGS | 3,000 PSI |
| | COLUMNS | 3,000 PSI |
| | REINFORCING STEEL FOR: CONCRETE MASONRY UNITS (CMU) WALLS, FOOTINGS | 60,000 PSI |
| | ETC. | ASTM A615, GRADE 60, $F_y = 60,000$ PSI |
| | WELDED WIRE MESH: | ASTM A103, GRADE 60 |
| | ANCHORS | ASTM A103, GRADE 60, CLASS-1 TYPE 316 |
| | HIGH STRENGTH BOLTS: | ASTM A193, GRADE 8BM, CLASS-2 TYPE 316 |
| | ANCHORS OR POWER ACTUATED FASTENERS: HILTI OR APPROVED EQUIV. TYPE 316 | 5 MILS POLYESTER |
| | VAPOUR BARRIER: | 3.000 PSI, NON-SHRI |
| | GROUT: | |

APPLICABLE CODES

FLORIDA BUILDING CODE, BUILDING (FBC-B).....	2023 3 rd Edition
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG).....	2023 Edition
FLORIDA BUILDING CODE, MECHANICAL (FBC-M).....	2023 Edition
FLORIDA BUILDING CODE, PLUMBING (FBC-P).....	2023 Edition
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB).....	2023 Edition
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R).....	2023 Edition
FLORIDA FIRE PREVENTION CODE (FFPC).....	2023 3 rd Edition
NATIONAL ELECTRICAL CODE (NEC).....	2020 Edition
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST.	Latest Edition
FDOT DESIGN STANDARDS.....	Latest Edition
FLORIDA ACCESSIBILITY CODE.....	2023 Edition

SHOP DRAWINGS

1. SHOP DRAWINGS AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. NO MODIFICATIONS OR SUBSTITUTION OF DRAWINGS AND SPECIFICATIONS SHALL BE MADE. UPON DRAWINGS REVIEW, ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO THE ENGINEER OF RECORD, AND ONE COPY TO THE COUNTY. THE FOLLOWING SHOP DRAWINGS AND TEST RESULTS SHALL BE SUBMITTED:
 - 1.1. SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION, INCLUDING BAKED UP DATA IN ACCORDANCE WITH ACI 301 CHAPTER 4, SECTION 4.2.3, EXCLUDING SECTION 4.2.3.1.
 - 1.2. SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZES, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAMS.
 - 1.3. SUBMIT TEST RESULTS PERFORMED BY A QUALIFIED TESTING LABORATORY FOR THE FOLLOWING CONCRETE TESTS:
 - 1.3.1. CYLINDER STRENGTH f'_c - ASTM C39/C98M-23.
 - 1.3.2. SLUMP TESTS - ASTM C143/C143M-20.
 - 1.4. SUBMIT SLO DENSITY TEST
 - 1.4.1. 98% COMPACTION SHALL BE ACHIEVED AT ALL LOCATIONS WHERE NEW CONCRETE IS TO BE POURED, INCLUDING ALL SLABS AND FOUNDATIONS. REQUIRE 1 DENSITY TEST PER APPROX 1000 SQ. FT. OF CONCRETE. REQUIRE TEST FOR KIOSK LOCATIONS.
 - 1.4.2. USING MODIFIED PROCTOR (AASHTO T-180)
 - 1.4.3. PROCTOR TEST TO BE SUPPLIED BY CONTRACTOR (NO ADDITIONAL PAYMENT)
 - 1.4.4. CONTRACTOR TO SUPPLY SIGN & SEALED DENSITY TEST REPORT BY FLORIDA REGISTERED PROFESSIONAL ENGINEER.
2. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND CONFORMANCE WITH CONTRACT DOCUMENTS.
3. SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER AS INDICATED OR SPECIFIED FOR REVIEW PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT CONVEYED IN CONTRACT DOCUMENTS.
4. WHEN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS, ENSURE SEAL INDICATES ENGINEER AS REGISTERED IN THE STATE WHERE PROJECT SITE OCCURS.
5. SHOP DRAWINGS ARE NOT PART OF CONTRACT DOCUMENTS. THEREFORE, ENGINEER'S REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM THE TERMS AND CONDITIONS OF THE CONTRACT.
6. SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE MADE WITHOUT THE ENGINEER'S REVIEW OF SHOP DRAWINGS AND CALCULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.
7. STRUCTURAL ENGINEER REQUIRES 10 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING.
8. MAINTAIN A COPY OF ALL SHOP DRAWINGS ACCEPTED BY THE STRUCTURAL ENGINEER AT SITE DURING CONSTRUCTION PERIOD.
9. SUBMITTALS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR ANY PROPOSED ALTERNATIVES TO PRODUCTS SPECIFIED IN PLANS.

FOUNDATIONS

1. THIS FOUNDATION PLAN IS PROVIDED AS A REFERENCE FOR A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING JURISDICTION. IF FOUNDATION CONDITIONS ARE UNUSUAL, THE ENGINEER OF THE BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND THE CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL COMPONENTS AND SYSTEMS RELATED THERETO.
2. ALL FOUNDATION CONSTRUCTION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
3. ALL FILL SHALL BE CLEAN SELECT MATERIALS OF NON-DETERIORATIVE MATERIALS SUCH AS SAND, GRAVEL, TRASS, OR OTHER CRANEOUS MATERIALS. PLACE FILL IN 8" LIFTS, MEASURED LOOSE, AND COMPACT EACH LIFT TO A MINIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698-12 (2021).
4. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
5. COMPACT ALL BACKFILL, AND FILL 5'-0" OUT FROM THE STRUCTURE.
6. FOUNDATION CONCRETE SHALL BE PLACED BEFORE DETERIORATION OF THE SUB-GRADE DUE TO WEATHER, GROUND WATER SEEPAGE, POLE TRAFFIC OR CONSTRUCTION OPERATIONS. ANY PORTIONS OF THE SUB-GRADE PERMITTED TO DETERIORATE SHALL BE REMOVED AND REPLACED WITH AN APPROVED COMPACTED BACKFILL OR LEAN CONCRETE FLOWABLE FILL WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
7. CONCRETE SHALL BE STANDARD WEIGHT (150PCF) WITH A MINIMUM COMPRESSIVE STRENGTH 3000 PSI@ 28 DAYS. MORTAR SHALL COMPLY WITH ASTM C270-24. GROUT SHALL COMPLY WITH ASTM C476-23 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1500 PSF THE ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS.
8. ALL FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) WITH TOP OF FOOTER 12" BELOW ADJACENT GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY. THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD AND WITH THE TESTING LAB'S SOILS ENGINEER.
9. EXPOSED REINFORCEMENT SHALL BE ADDITIONAL 1" TO 2 INCHES FROM THE BOTTOM AND SIDES OF ALL FOOTINGS THAT ARE TO BE POURIED DIRECTLY AGAINST EARTH.
10. THE PERIMETER GRADE SHALL BE SLOPED AWAY FROM THE STRUCTURE TO PROVIDE POSITIVE DRAINAGE. THE GRADE OF THE GROUND UNDER THE STRUCTURE SHALL NOT BE LOWER THAN THE LOWEST SURROUNDING FINISHED GRADE IN ORDER TO PREVENT THE ACCUMULATION AND STANDING OF WATER UNDER THE STRUCTURE.
11. ALL REINFORCEMENT OF FOUNDATIONS SHALL COMPLY WITH ASTM A618/GR60-22. GRADE 60 REINFORCEMENT BARS SHALL BE UNCOATED DEFORMED BARS (NO "POXY"). REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING. ALL SPLICES AND LAPS SHALL CONFORM TO "TENSION LAP SPlice SCHEDULE (CLASS B)" THIS PAGE.
12. ALL PIERS SHALL BE CONSTRUCTED OF 8"x8"x16" NOMINAL STANDARD WEIGHT CONCRETE MASONRY UNITS CONFORMING TO ASTM C90-24, WITH A UNIFORM MORTAR JOINT STRENGTH OF 2500 PSI. CONCRETE MASONRY UNITS SHALL BE FULLY Laid IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT MANUFACTURER WITH ASTM C887-20 AND APPLIED IN STRICT ACCORDANCE WITH THE CEMENT MANUFACTURER'S INSTRUCTIONS. THE BOTTOM COURSE SHALL BE FULLY Laid IN TYPE M OR S MORTAR. REINFORCEMENT BARS AND PIER FOOTING SHALL BE AS DESCRIBED IN THE PIER DETAILS.
13. ALL PIERS SHALL BE CONSTRUCTED OF 12" MINIMUM THICKNESS OF SOLID MASONRY OR CONCRETE, OR THE CAVITIES OF THE TOP COURSE SHALL BE FILLED WITH CONCRETE OR GROUT. PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE.
14. THE CENTERLINE OF EACH PIER SHALL BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE WITH 1 INCH MAXIMUM TOLERANCE.
15. WHEN CONTINUOUS PERIMETER SUPPORT IS NOT PROVIDED, INSTALL A TYPICAL I-BEAM TYPE PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS.
16. THE CONTRACTOR'S RESPONSIBILITY IS TO VERIFY THAT THE FOUNDATION IS NOT SHOWN Slight ADJUSTMENT MAY BE REQUIRED TO ENSURE OPERABILITY AFTER THE INSTALLATION OF THE STRUCTURE IS COMPLETE.

16. TIE-DOWN STRAPS SHALL BE 1/4" X 3" 0.035" TYPE-1, FINISH B, GRADE 1 ZINC-COATED STEEL STRAPPING, CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM 3553M-91. TIE-DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE A MINIMUM WORKING CAPACITY.
17. TIE-DOWN ANCHORS SHALL BE DESIGNED TO HAVE LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE-DOWN STRAPS CONNECTED TO THE GROUND ANCHOR AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE DESIGN OF GROUND ANCHORS, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELICES, ETC., SHALL BE AS SPECIFIED BY THE ARCHITECT. ANCHORS SHALL BE DESIGNED TO RESIST ALL LOADS THAT MAY BE ENCOUNTERED. IF THE HOLDING OR DRAUGHT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
18. PROVIDE FOUNDATION ENCLOSURE FOR THE STRUCTURE AND THE ASSOCIATED STEPS, DECK, AND RAMPS. ENCLOSURE SHALL HAVE A MINIMUM NET VENT AREA OF 10% OF THE TOTAL FLOOR AREA OF THE ENCLOSURE. PROVIDE ONE 12" X 12" VENT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS TO PROVIDE CROSS VENTILATION OF ENTIRE CRAWL SPACE. INSTALL AN 18" X 24" MINIMUM OPENING FOR CRAWL SPACE ACCESS.
19. THE FOUNDATION DIMENSIONS SHOWN ARE EXPECTED ACTUAL MODULE WIDTHS AND LENGTHS. PROVIDE APPROXIMATELY TWO-INCH GAP AT EACH MATE LINE WHERE THERE IS A SMART PANEL, AND ONE-INCH GAP ELSEWHERE IS NEEDED TO ACCOUNT FOR MODULE EXPANSION, SETTLING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE EXACT AMOUNT OF INCREASED WIDTH TO BE ADDED AT EACH MATE LINE. TAKE CAUTION AS THIS MAY AFFECT THE DESIGN OF THE FOUNDATION. PROVIDE ONE 12" X 12" VENT FOR EACH 150 SQUARE FEET OF CRAWL SPACE. PROVIDE ONE 18" X 24" MINIMUM OPENING FOR CRAWL SPACE ACCESS. SITE WORK NOT SHOWN ON THESE DRAWINGS ARE DESIGNED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
- 20.

TERMITE PROTECTION

3. TERMITE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE GOVERNING AUTHORITIES CODES.
4. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETED.
5. SOIL DISTURBED AFTER INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED.
6. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 12 INCHES (12") OF THE STRUCTURES SIDEWALLS.
7. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER THE CONSTRUCTION IS COMPLETE. THE BARRIER SHALL BE APPLIED TO ALL EXTERIOR VERTICAL BARRIERS. AFTER VERTICAL BARRIER IS APPLIED SHALL BE RETREATED.
8. ALL STRUCTURES SHALL HAVE PRE-CONSTRUCTION TREATMENT.
9. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE ANY FINAL INSPECTIONS WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT HAS RECEIVED A COMPLETE TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."
10. ALL CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 12" FROM THE STRUCTURE SIDE WALLS.
11. IRRIGATION / SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL BE INSTALLED WITHIN 10" -12" INCHES (12") OF THE STRUCTURES SIDEWALLS.
12. AFTER ALL WORK IS COMPLETED, LOOSE WOOD, THIS INCLUDES MUST BE REMOVED FROM BELOW AND WITHIN 12" OF THE STRUCTURE, AND FILL ALL GRADE STAKES, FILL SHOULDER OF ROAD, AND CELLULOSE CONTAINING MATERIAL.
13. NO WOOD, VEGETATION, STUMPS, CARPBOARD, TRASH ETC. SHALL BE BURIED WITHIN 15 FEET OF ANY STRUCTURE OR PROPOSED STRUCTURE.

CAST IN PLACE CONCRETE

- 1) CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS
- | | |
|---|-----------|
| A) FOOTINGS, SLABS & SLABS-ON-GRADE | 3,000 PSI |
| B) COLUMNS, WALLS, BEAMS, TOP-COAT CONCRETE | 3,000 PSI |
- 2) CONCRETE SHALL BE READY-MIX PER ASTM C94:
- | | |
|---|--|
| A) PORTLAND CEMENT - ASTM C150 | |
| B) AGGREGATES - ASTM C33 (3/4" MAX.) | |
| C) NO CALCIUM CHLORIDE | |
| D) AIR ENTRAINING - ASTM C260 | |
| E) WATER REDUCING - ASTM C494 | |
| F) FLYASH - ASTM C618 CLASS F (20% MAXIMUM BY WEIGHT) | |
| G) WATER - CLEAN AND POTABLE | |
- 3) REINFORCING STEEL:
- | | |
|---|--------------------------------------|
| A) REINFORCING STEEL, FOOTINGS, CMU WALLS & TIE-BEAMS | ASTM A615, GRADE 60, fy = 60,000 psi |
| B) REQUIRED SLOPE RANGE = 5° TO 5°. | |
- 4) WELDED WIRE FABRIC _____ ASTM A-104, FURNISH SHEETS (NOT ROLLS), OR FIBERGLASS
- 5) MEASURED BARRIER _____ .8 MIL POLYETHYLENE (LP) AND TAPE ALL JOINTS
- 7) CODES AND STANDARDS: AMERICAN CONCRETE INSTITUTE (ACI) CURRENT EDITIONS
- | | |
|---|--|
| A) SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS | |
| ACI 308-2002 | "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING;" |
| ACI 309-2002 | "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY;" |
| ACI 318-04 | "GUIDE TO PRECASTING REINFORCING STEEL DESIGN DETAILS;" |
| ACI 306-04 | "ACI DETAILING MANUAL - 2004." |
- 8) MINIMUM LAP SPICES = 4 BAR DIAMETERS UNLESS NOTED OTHERWISE (REFER TO TABLE BELOW).

TENSION LAP SPlice SCHEDULE (CLASS B)
 $f_c=3000$ psi. $f_y=60,000$ psi.

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR	28"	28"	47"	56"	81"	93"	105"	116"	128"
OTHER BAR	22"	29"	36"	43"	63"	72"	81"	90"	98"

1. LAP SPACES ARE IN ACCORDANCE WITH ACI 318-19(2).
2. CLEAR SPACING OF BARS IS 26W AND CLEAR COVER IS NOT LESS THAN 4W OR CLEARANCES AND TOP PER ACI 318-19(2) SECTION 12.2.2
3. TOP BAR SLUMP IS REQUIRED WHERE MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW HORIZONTAL REINFORCEMENT
- 9) PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE, AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR-TYPE SUPPORTS COMPLYING WITH CONCRETE REINFORCING STEEL INSTITUTE (CRSI), 30TH EDITION, RECOMMENDATIONS. PROVIDE AT LEAST 10% LESS AREA OF STEEL THAN REQUIRED.
- 10) ALL BEAMS AND SLABS SHALL BE CURED MONOLITHICALLY, EXCEPT FOR REQUIRED CONSTRUCTION JOINTS. PROPOSED CONSTRUCTION JOINT LOCATION SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
- 11) CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, AND BAR RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO GREEP, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER.
- 12) CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.
- 13) SEE PROJECT PLANS AND SPECIFICATIONS FOR REQUIRED CONCRETE FINISHES. ALL FINISHES TO BE APPROVED BY OWNER PRIOR TO FINISHING.
- 14) ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
 - A) APPLY A LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C308-19 "STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE"
 - B) PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH ACI 301-20.
- 15) GENERAL: CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORM WORK, SHORING, AND RESHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA ENGINEER.
- 16) A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS ON SITE:
 1. CYLINDER STRENGTH TESTS - ASTM C39/C39M-22 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS" (ONE SET OF FOUR CYLINDERS FOR EACH 500 SQ. YARDS OR FRACTION THEREOF, TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS, HOLD THE FINAL CYLINDER IN RESERVE.
 2. SLUMP TESTS - ASTM C143/C143M-20 "STANDARD TEST METHOD FOR SLUMP OF HYDRAULIC-CEMENT CONCRETE"
- 17) CONTRACTOR SHALL PROVIDE THE FOLLOWING SUBMITTALS:
 - 1.1. SUBMIT TEST RESULTS FOR CYLINDER STRENGTH TEST RESULTS AND SLUMP TESTS
 - 1.2. SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION, INCLUDING BACK UP DATA IN ACCORDANCE WITH 301. SPECIFICATIONS FOR CONCRETE CONSTRUCTION, CHAPTER 4, SECTION 4.2.3, EXCLUDING SECTION 4.2.3.4B.
 - 1.3. SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZES, AND LOCATION. INCLUDE BARS AND BEND DIAGRAMS.
- 18) RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR AND DO NOT EXCEED SLUMP LIMITATIONS OR TOTAL ALLOWABLE WATER TO CEMENT RATIO. USE COLD WATER FROM THE TRUCK TANK AND RE-MIX TO ACHIEVE CONSISTENCY. CONTRACTOR SHALL INDICATE THE LOCATION OF ANY WATER ADDED AT THE JOB SITE. ALL TESTS SHALL BE PREPARED AFTER THE ADDITION OF WATER TO THE MIX.
- 19) MAXIMUM WATER TO CEMENT RATIO WHEN NO BACK UP DATA IS AVAILABLE:
 - A) 5.00 PSI 28-DAY COMPRESSIVE STRENGTH: W/C RATIO: 0.40
 - B) MAXIMUM (NON-AIR-ENTRAINED): 0.54 MAXIMUM (AIR ENTRAINED)
 - C) 4.00 PSI 28-DAY COMPRESSIVE STRENGTH: W/C RATIO: 0.47
 - D) MAXIMUM (NON-AIR-ENTRAINED): 0.53 MAXIMUM (AIR-ENTRAINED)
 - E) 3.00 PSI 28-DAY COMPRESSIVE STRENGTH: W/C RATIO: 0.54
 - F) MAXIMUM (NON-AIR-ENTRAINED): 0.45 MAXIMUM (AIR-ENTRAINED)
- 20) REINFORCING BAR COVER:
 - A) FOOTINGS = 5"
 - B) COLUMNS = 1-1/2"
 - C) BEAMS = 1-1/2"
 - D) SLABS = 3/4" (INTERIOR) 1-1/2" (EXTERIOR)
- 21) CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
- 22) WHERE BAR LENGTHS ARE GIVEN ON DRAWINGS, LENGTH OF HOOK, IF REQUIRED IS NOT INCLUDED.

MASONRY

1. CODES AND STANDARDS:
 - 1.1. TMS 602802-16 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES"
2. HOLLOW LOAD BEARING UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE II, MINIMUM NET COMPRESSIVE STRENGTH = 1,900 PSI. (NET AREA COMPRESSIVE STRENGTH $F_w = 1,500$ PSI).
3. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C270 (PROPORTION OR PROPERTY SPECIFICATION).
4. COARSE GROUT SHALL CONFORM TO ASTM C476:
 - 4.1. 3,000 PSI AT 28-DAYS,
 - 4.2. 1/4" MAXIMUM AGGREGATE,
 - 4.3. 8" - 11" SLUMP.
5. CONCRETE MASONRY UNITS SHALL BE PLUMB, TRUE, WITH LEVEL COURSES ACCURATELY SPACED AND BUILT TO THE THICKNESS AND IN A RUNNING BOND AS INDICATED AND CONFORMING TO THE TOLERANCES SPECIFIED IN TMS 602802-16. CONCRETE UNITS SHALL BE STORED OFF THE GROUND SURFACE AND COVERED TO PROTECT THEM FROM ABSORBING RAIN OR BEING CONTAMINATED WITH OTHER FOREIGN MATTER. CONCRETE UNITS SHALL BE DRY WHEN LAID. EACH UNIT SHALL BE ADJUSTED TO FINAL POSITION IN THE WALL WHILE THE MORTAR IS STILL SOFT AND PLASTIC. ANY UNIT DISTURBED AFTER THE MORTAR HAS STIFFENED SHALL BE REMOVED AND RE-LAID WITH FRESH MORTAR. VERTICAL CELLS SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING. ALL ANCHORS, ACCESSORIES, FLASHING, AND OTHER ITEMS TO BE BUILT-IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES. ALL CUTTING AND FITTING OF MASONRY UNITS, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHERS SHALL BE DONE BY MASONRY CRAFTSMEN WITH MASONRY SAWS. LOCATE CONTROL JOINTS AT 20 FEET ON CENTER MAXIMUM AT ALL COLUMNS, AND AT CHANGES IN DIRECTION. CAULK THE EXPOSED SIDE OF ALL JOINTS WITH BACKER ROD AND SEALANT. COLOR OF SEALANT TO MATCH WALL COLOR.
6. HOLLOW UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS TO THE THICKNESS OF THE FACE SHELL AS A MINIMUM THE WEBS SHALL ALSO BE BEDDED IN ALL COURSES STARTING AT THE FOUNDATION, ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT OR CONCRETE. MORTAR JOINTS SHALL BE TOOLED WHEN THE MORTAR ID "THUMBPRINT" HARD, BOTH ON THE INSIDE AND OUTSIDE SURFACES OF THE BUILDING WALL. WITH A TOOL PRODUCING A CONCAVE SURFACE BED JOINTS SHALL BE 3/8" IN THICKNESS AND HEAD JOINTS SHALL BE 3/8" IN THICKNESS.
7. ALL REINFORCING STEEL TO BE GRADE 60 PER ASTM A615. REINFORCING BARS SHALL BE PLACED IN THE MIDDLE OF THE CELLS AND TIED OR OTHERWISE SECURELY SUPPORTED AT THE TOP AND BOTTOM TO ENSURE THE BAR DOES NOT MOVE DURING GROUTING. MINIMUM LAP AT ALL SPICES OR DOWELS SHALL BE 30 INCHES UNLESS OTHERWISE NOTED ON THE DRAWINGS.
8. GROUTING SHALL BE ACCOMPLISHED IN 4 FOOT LIFTS FOR CONCRETE MASONRY AND 2 FOOT LIFTS FOR BRICK MASONRY. EACH LIFT SHALL BE MECHANICALLY CONSOLIDATED INTO THE PREVIOUS LIFT WHEN PLACED, SO AS TO PREVENT COLD JOINTS. RECONSOLIDATE AS REQUIRED FOR CONCRETE MASONRY 4" SQUARE INCH CLEANOUT OPENINGS SHALL BE PLACED AT THE BOTTOM OF EACH CELL FOR BRICK MASONRY. PUDDLE GROUT DURING AND AFTER PLACEMENT TO ENSURE COMPLETE FILLING OF THE CELL. GROUT PLACEMENT STOPPED FOR MORE THAN ONE HOUR SHALL BE STOPPED BELOW THE TOP OF THE MASONRY UNIT 1-1/2" TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
9. THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA TO RECEIVE GROUT MUST NOT BE LESS THAN 2'x3'. MORTAR JOINTS MUST BE REWORKED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPING MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.
10. UNLESS SPECIFICALLY SHOWN OTHERWISE, PROVIDE #9 GA. "DUR-O-WALL" TRUSS TYPE REINFORCING IN EVERY OTHER OF CONTINUOUS WALLS FOR CONCRETE MASONRY, AND EVERY FOURTH COURSE FOR BRICK MASONRY. DO NOT LAY JOINT REINFORCEMENT ACROSS EXPANSION JOINTS.
11. TEMPORARY BRACING AND SHORING OF ALL CONCRETE MASONRY CONSTRUCTION TO PROVIDE STABILITY DURING CONSTRUCTION UNTIL CONSTRUCTION ACHIEVES IT'S PROPER STRENGTH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. UNLESS SPECIFICALLY SHOWN OTHERWISE, PROVIDE #9 GA. "DUR-O-WALL" TRUSS TYPE REINFORCING IN EVERY OTHER OF CONTINUOUS WALLS FOR CONCRETE MASONRY, AND EVERY FOURTH COURSE FOR BRICK MASONRY. DO NOT LAY JOINT REINFORCEMENT ACROSS EXPANSION JOINTS.
13. TEMPORARY BRACING AND SHORING OF ALL CONCRETE MASONRY CONSTRUCTION TO PROVIDE STABILITY DURING CONSTRUCTION UNTIL CONSTRUCTION ACHIEVES IT'S PROPER STRENGTH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CHEMICAL (ADHESIVE) ANCHORS

SHALL BE AN EQUAL TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS RED-HEAD EPOC, SIMPSON SET EPOXY, OR HILTI HSE2411 EPOXY DOWELING SYSTEM, OR ENGINEER APPROVED SUBSTITUTION. INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER'S REPRESENTATIVE. MINIMUM EMBEDMENT SHALL BE TWELVE (12) TIMES FASTENER DIAMETER UNLESS NOTED OTHERWISE.

CONSTRUCTION OBSERVATION

THE STRUCTURAL ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM CONSTRUCTION OBSERVATION SERVICES FOR THIS PROJECT. THEREFORE, ANY AS-BUILT CONSTRUCTION OR CHANGES MADE TO THE STRUCTURE OR TO THESE PLANS WITHOUT THE ENGINEER'S WRITTEN CONSENT SHALL RENDER THE DESIGN AND THE ENGINEERS

ALUMINUM SPECIFICATIONS

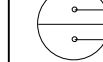
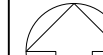
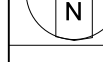
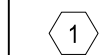
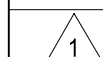
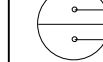
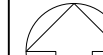
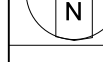
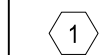
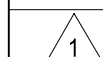
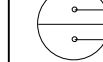
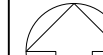
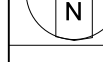
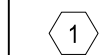
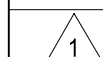
1. WHERE OTHERWISE NOT SPECIFIED, ALUMINUM HANDRAIL FOR VERTICAL AND HORIZONTAL MEMBERS SHALL BE SEAMLESS, 1-1/2 INCH (IPS), SCHEDULE 40, 6063-T832 OR 6063-T6 ALUMINUM ALLOY PIPES SHALL BE OF THE SAME COMPOSITION AS RAILS AND POSTS OR STAINLESS STEEL OR 2024-T4 ALUMINUM ALLOY. NO. 214 ALUMINUM FITTINGS SHALL HAVE A MINIMUM THICKNESS OF 1/4-INCH. ALL SCREW CONNECTORS AND BOLTS SHALL BE OF STAINLESS STEEL OR 2024-T4 ALUMINUM ALLOY.
2. ALL OTHER ALUMINUM COMPONENTS SHALL BE AS NOTED.

STRUCTURAL ABBREVIATIONS		ASD	ALLOWABLE STRESS DESIGN	BRG	BEARING
#	NUMBER OR COUNT	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	C TO C	CENTRIC
Ø	ROUND OR DIAMETER	ASSY	ASSEMBLY	CANT	CANTILEVER
∅	AND	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	CL	CENTERLINE
@	AT	AWC	AMERICAN WOOD COUNCIL	CMU	CONCRETE MASONRY UNIT
Ø @	DIAMETER OF REINFORCEMENT BAR	AWPA	AMERICAN WOOD PULP ASSOCIATION	C.O.	CORNER
ACI	AMERICAN CONCRETE INSTITUTE	AWP	AMERICAN WELDING SOCIETY	CONC	CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT	AWS	AMERICAN WELDING SOCIETY	CONN	CONNECTION
AFB	ABOVE FINISH FLOOR			CONT	CONTINUOUS
AH	AIR HANDLER	BI	BOTTOM OF	CONTR	CONTRACT
ALUM	ALUMINUM	BETWN	BETWEEN	CTR	CENTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	BTM	BOTTOM	CEN	CENTER
ANCH	ANCHOR ROD	BM	BEAM	CU	CURB
ARCH	ARCHITECTURE	BLDG	BUILDING	DBA	DEFLECT
		BPL	BASE PLATE		

TO CENTER	DEFL	DEFLECTION	FB	FLAT BAR
CTION JOINT	DET	DETAIL	FD	FLOOR DRAIN
LINE	DIAG	DIAGONAL	FFD	FOUNDATION
VE MASONRY	DIA	DIAMETER	FFN	FINISH FLOOR
	DIFF	DIFFERENT	FDE	FINISH FLOOR
	DIM	DIMENSION	FLR	ELEVATION
	DITTO	DITTO	FLOOR	FLOOR
	DWG	DRAWING	FLS	FAR SIDE
			FTG	FOOTING
UT	EA	EACH		
	EF	EACH FACE	GAGE	
	EF	ELEVATION JOINT	GALV	GALVANIZED
CTION	ELEV	ELEVATION	GC	GENERAL
CTION	ELEV	ELEVATOR	GT	CONTRACTOR
	ENG	ENGINEER	GB	GRIBER TRUSS
	EOR	ENGINEER OF RECORD		
	EQ	EQUAL	HDPE	HOSE BID
	EQUIP	EQUIPMENT	HDP	HIGH DENSITY POLY
NDING UNIT	EXIST	EXISTING	HE	ETHYLENE
	EXP	EXPANSION	HT	HEIGHT
	EXT	EXTERIOR	HOR	HOLLOW METAL
ED BAR	EW	EACH WAY		HORIZONTAL

HS	HEADED STUD ANCHOR	MANUF	MANUFACTURER	OC	OD
HT	HEIGHT	MAX	MATERIAL	OF	OD
HS	HIGH STRENGTH	MECH	MEAN HEAVY WATER LINE	CHNL	
IF	INSIDE FACE	MISC	MECHANICAL	OPNG	
INT	INTERIOR	MM	MISCELLANEOUS	OPP	
IPS	IRON PIPE SIZE		MILLIMETERS		
JNT	JOINT				
JST	JOIST				
LB	POUND	NAVY	NORTH AMERICAN	PER	PL
LG	LONG LEG	NDS	VERTICAL DATUM	PP	
LLH	LONG LEG		NATIONAL DESIGN	PINL	
LLV	HORIZONTAL	NFPA	SPECIFICATION	PRE	
LPD	LONG SIDE VERTICAL		NATIONAL FIRE PROTECTION ASSOCIATION	PSF	
LSH	LONG SIDE HORIZONTAL	NIC	NOT IN COUNTRY	PSI	
LSV	LONG SIDE VERTICAL	NTS	NOT TO SCALE	PT	
					QTY

ON CENTER OUTSIDE DIAMETER OUTSIDE FACE ORDINARY HIGH WATER LEVEL OUT TO OUT REINFORCING OPPOSITE	R OR R R REF REINFORC REINFORC REQUIRED RETAINING REVISION	RISER RADIUS ROUND REFERENCE REINFORCEMENT REQUIRE REQUIRED RETAINING REVISION	STR STRUCT SYM	STRAIGHT STRUCTURAL SYMMETRICAL
POUNDS PER CUBIC FOOT PEDESTRIAN PERPENDICULAR PLATE PANEL PREFABRICATED POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED	REV SCHEDULE SECTION SQUARED SHEATH SHD SIM SOG SPA SPEC SQUARE SLOPE STAINLESS STEEL STIFF STEEL	SCHEDULE SECTION SQUARED SINGLED SIMILAR SOG SPACE SPECIFICATION SLOPE STAINLESS STEEL STIFF STEEL	TAB TOP OF T/J TD THK THRS TPI TRANSV TYP	TREAD TOP OF TILT-UP PANEL TRAIL DISTANCE THICKENED EDGE THICK THREADED THE MASONRY SOCIETY TRUSS PLATE INSTITUTE TRANSVERSE THICKENED TYPICAL
QUANTITY	STD STIFF STEEL	STANDARD STIFFENER STEEL	UNO VER	UNLESS NOTED OTHERWISE

VERT	VERTICAL	<table><tr><th colspan="2">GENERAL SYMBOLS</th></tr><tr><td></td><td>PLAN SECTION OR DETAIL NO. SHEET NUMBER</td></tr><tr><td></td><td>NORTH ARROW</td></tr><tr><td></td><td>KEYED NOTE TO PLAN</td></tr><tr><td></td><td>FOUNDATION TYPE</td></tr><tr><td></td><td>REVISION NUMBER</td></tr><tr><td></td><td>FOOTING STEP</td></tr></table>	GENERAL SYMBOLS			PLAN SECTION OR DETAIL NO. SHEET NUMBER		NORTH ARROW		KEYED NOTE TO PLAN		FOUNDATION TYPE		REVISION NUMBER		FOOTING STEP
GENERAL SYMBOLS																
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	NORTH ARROW															
	KEYED NOTE TO PLAN															
	FOUNDATION TYPE															
	REVISION NUMBER															
	FOOTING STEP															
VTR	VENT THRU ROOF															
W	WITH															
WH	WATER HEATER															
WIN	WINDOW															
WID	WITHOUT															
WP	WORK POINT															
WS	WATERTOP															
WWF	WELDED WIRE FABRIC															

LUMBER

1. CODES AND STANDARDS (CURRENT EDITIONS)
 - 1.1. AMERICAN WOOD COUNCIL (AWC)
 - 1.2. AMERICAN WOOD PRESERVATION ASSOCIATION (AWPA)
 - 1.3. 2024 NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION
 2. DIMENSIONAL LUMBER SHALL BE SOUTHERN PINE WITH THE MINIMUM NOMINAL DESIGN VALUES PER AWC NDS.
 3. WHERE SPECIFIED, ENGINEERED LUMBER PRODUCTS SHALL BE PER MANUFACTURER PROVIDED DESIGN VALUES. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR ALL ENGINEERED LUMBER PRODUCTS.
 4. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR SOIL, EXPOSED TO WEATHER, OR AT OTHER LOCATIONS AS SHOWN ON CONTRACT DRAWINGS, SHALL BE PROTECTED OR PRESURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) REQUIREMENTS. PRESURE TREATMENT APPROPRIATE FOR LUMBER IN CONTACT WITH SOIL SHALL BE PROVIDED WHERE APPLICABLE

WOOD PRESERVATION TREATMENT		
APPLICATION	AWPA USE CATEGORY	TREATMENT (LBS/CU FT.)
IN CONTACT WITH METAL ROOFING	UC2	0.018 PCF P11 OR EQUAL + (0.019 PCF EL 0.14 PCF UC2A, 0.15 PCF MCA, OR 0.17 PCF SBA)
ABOVE GROUND USE	UC3B	ACQ 0.25
CONCRETE OR GROUND CONTACT, IN-GROUND USE, DECKING, ROOF COMPONENTS	UC4A	0.40 PCF ACQ OR EQUAL (0.14 PCF UC4C, 0.15 PCF MCA, OR 0.15 PCF CA)
STRINGERS & BENTS 2X6-10X10, ROOF POSTS 6X6-10X10	UC4AB	0.80 PCF ACQ OR 0.31 PCF CA OR 0.23 PCF UC4C OR MCA
SPLIT PILE 3X10, STRINGERS & BENTS 2X6-3X10	UC4B	0.80 PCF PCA
UPPILE LAINS IN-GROUND OR FRESHWATER PILES	UC4C	0.60 PCF UC4C OR 0.41 CA
SALTWATER EXPOSURE PILES, CROSS BRACING, AND WALERS	UC9C	DUAL TREATMENT AS PHOLDS OR SPHEROMOR TETRABERANS ARE PRESENT: FIRST CCA 1.00 SECOND OR OR OR-S 2.00
PRIMARY PROJECT WOOD PRESERVATION TREATMENT		

 5. NAILING, JOIST BLOCKING, AND RAFTER BLOCKING SHALL MEET THE MINIMUM REQUIREMENTS OF CHAPTER 23 OF THE FLORIDA BUILDING CODE UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED ON THE PLANS.
 6. ALL CONNECTORS SHALL BE GALVANIZED STEEL. CONNECTOR MODEL NUMBERS SHOWN ARE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE CO. PO BOX 10789, PLEASANTON, CA 94588 OR USP CONNECTORS AS MANUFACTURED BY ITW, INC. 19223 SHANNY RIDGE RD, CHERSTERFIELD MO 63015. SUBSTITUTIONS ARE ACCEPTABLE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. UNLESS SHOWN OTHERWISE, INSTALL SIZE AND NUMBER OF FASTENERS PER MANUFACTURER INSTALLATION INSTRUCTIONS. ALL CONNECTORS TO PRESURE TREATED LUMBER SHALL BE GALVANIZED STEEL.
 7. ANY NOTE REQUIRING A RING SHANK MAY BE SCREW SHANK FOR AUTOMATIC NAILING

WIND BORNE DEBRIS REGION REQUIREMENTS

1. DESIGN WIND PRESSURES ARE BASED ON STRUCTURE CLASSIFICATION INDICATED IN GENERAL STRUCTURAL SPECIFICATIONS.
2. ALL COMPONENTS AND CLADDING AS REQUIRED SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SECTION 1609 OF THE FLORIDA BUILDING CODE FOR DESIGN PRESSURES GENERATED BY AN ULTIMATE DESIGN WIND VELOCITY AS INDICATED IN GENERAL STRUCTURAL SPECIFICATIONS.
3. THE ENGINEER OF RECORD DOES NOT CERTIFY THE STRUCTURAL INTEGRITY OF THESE ITEMS.
4. THE BUILDER SHALL PROVIDE NECESSARY COPIES OF DETAILS, CERTIFICATIONS, ETC., TO THE BUILDING DEPARTMENT TO SHOW COMPLIANCE WITH THIS PARAGRAPH.

WIND LOADING INFO

REFER TO SHEET S4.0 FOR WIND LOADING

[illegible]

6-UNIT BUILDING "A"
70' X 80'
AREA= 4,200 SF
MIN. F.F.E= 10.5 NAVD
OCCUPANT LOAD: 28

3-UNIT BUILDING "B"
35' X 60'
AREA= 2,100 SF
MIN. F.F.E= 10.5 NAVD
OCCUPANT LOAD: 14

6-UNIT BUILDING "C"
70' X 80'
AREA= 4,200 SF
MIN. F.F.E= 10.5 NAVD
OCCUPANT LOAD: 28

2 UNIT BUILDING "D"
23'-4" X 58'
AREA= 1,306 SF
MIN. F.F.E= 10.5 NAVD
OCCUPANT LOAD: 9

4" CONCRETE WALL (TYP.)

REFER TO SHEET S1.1

REFER TO SHEET S1.2

REFER TO SHEET S1.3

1/8"=1'-0'



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Max Morgan,
Professional Engineer,
State of Florida,
License No. 94877

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digitally signed and sealed by
Max Morgan, P.E.
on the date indicated here,
05-27-2025

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on any electronic copies.

Max Morgan
Professional Engineer
State of Florida
Registration No. 94877

Sheet No. S1.0

[illegible]

BOARDWALK PLAN INDEX

PUBLIC WORKS TEMPORARY OFFICES
CHARLOTTE COUNTY

7000 FLORIDA ST.
PUNTA GORDA, FL 33950



Project Information			
Approved By:	-	Design:	TWP
Scale: N.T.S.		Drawn:	TWP
Job No.: 24020.003		Checked:	BTC
Date Issued: 05/27/2025			

Sheet No. S1.0

Architectural floor plan of a 6-unit building "A". The building is 70' x 60' with a total area of 4,200 SF and a minimum finished floor elevation of 10.5 NAVD. The plan shows a long ramp labeled "RAMP 1" with a note: "RAMP WILL BE PROVIDED BY COUNTY FOR CONTRACTOR TO INSTALL". The ramp is 6'-3" wide. The building has a 4" concrete walk (typ.) on the left side. The plan includes dimensions for various sections: 10'-9", 8'-1", 2'-8", 2'-11", 2'-1", 35'-0", 60'-0", 6'-1", and 14'-9". The building is divided into six units, with two units labeled "HC" (Health Care) and two units labeled "R" (Residential). The plan also shows a "DOOR LOCATED" area and a "70'-0" dimension for the building's length. The text "6-UNIT BUILDING 'A'" is prominently displayed, followed by "70' X 60'", "AREA= 4,200 SF", and "MIN. F.F.E= 10.5 NAVD". A note refers to sheet S2.2 for building foundations.

$$\frac{1}{4}''=1'-0''$$


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Registration No. 94877

[illegible]

BOARDWALK PLAN

PUBLIC WORKS TEMPORARY OFFICES
CHARLOTTE COUNTY

7000 FLORIDA ST.
PUNTA GORDA, FL 33950

WEILER ENGINEERING CORPORATION

WEL excellence in engineering

--- An Apex Company ---

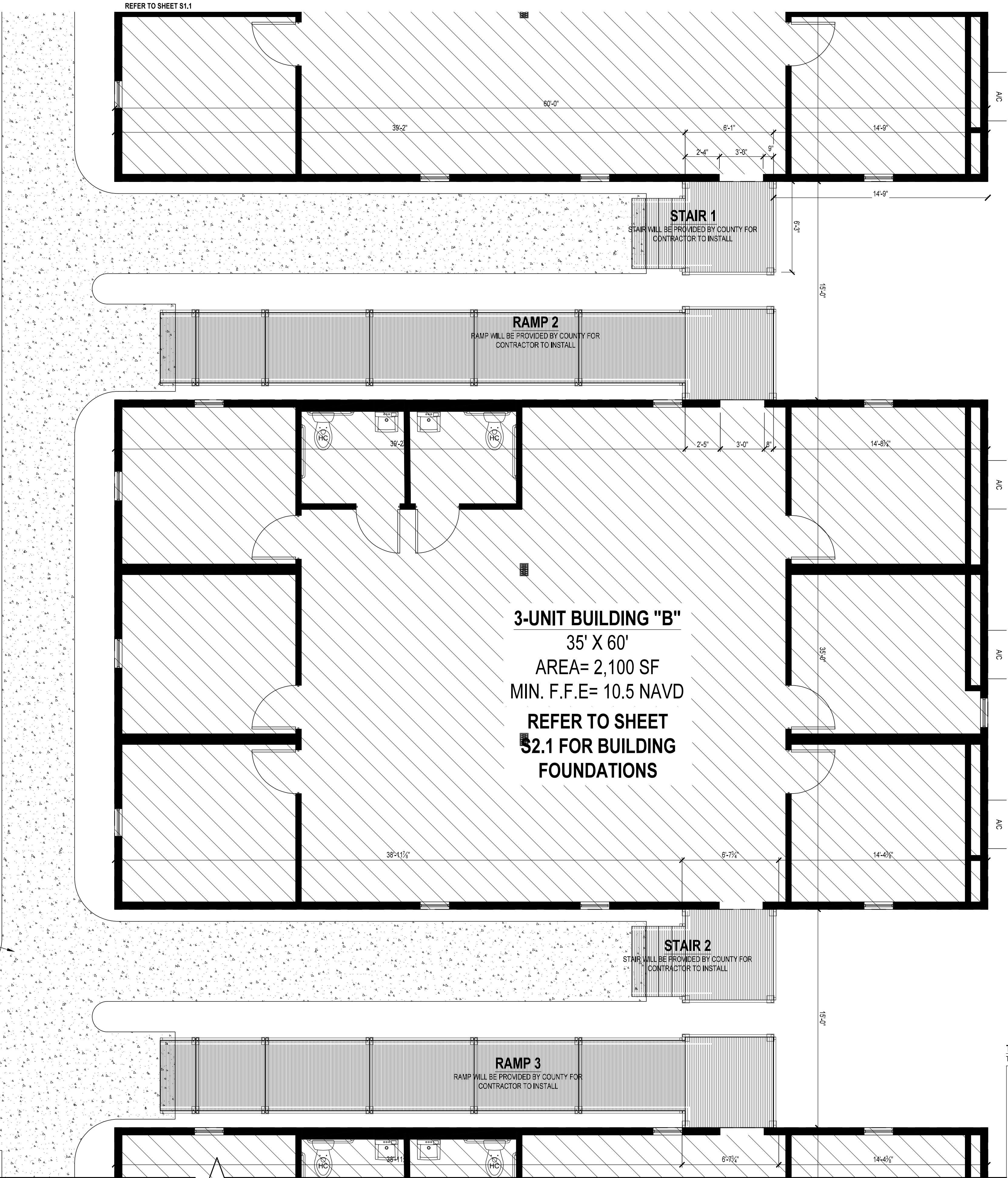
201 WEST MARION AVENUE
SUITE 1306
PUNTA GORDA, FLORIDA 33950
PHONE: (941) 505-7700 FAX: (941) 505-1702

ES# 66656

Project Information		
Approved By:	-	Design: TWP
Scale: N.T.S.		Drawn: TWP
Job No.: 24020.003		Checked: BTC
Date Issued: 05/27/2025		

Sheet No. S1.1

USER: Tom.Parker PLOTTED THE S1.2 LAYOUT OF C:\Users\TOM~1\PAR\AppData\Local\Temp\AcPublish_235e8\24020003\CountyTrailers_20250527.dwg, ON May 27, 2025 @ 10:11am



BOARDWALK PLAN

1/4"=1'-0"



THE WEILER ENGINEERING CORPORATION
These plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicated.

WIND PARAMETERS
Method of Design: ASCE 7-22
Building Risk Category: RISK II
Design Wind Speed: Ultimate V_{ult} =160 MPH / Nominal V_{ref} = 124 MPH
Wind Importance Factor: 1.0 / Wind Exposure: C
Internal Pressure Coefficient: ±0.00
Component & Cladding Wind Pressure: per Calcs

FLOOD PARAMETERS
FEMA FIRM Map Number: 12015C0242G
Base Flood Elevation: AE-09
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)

GEOTECHNICAL PARAMETERS
Data Source: Presumptive Load-Bearing Values of Soils, FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Pressure: 100 psf/ft (FBC 2023 Table 1806.2)

FOUNDATION SOIL AND TREATMENT
Soil Bearing Capacity Listed & the resultant foundation design assumes the soil type noted as per USGS web soil survey (or geotechnical engineering if provided), if inadequate substrate is discovered during site preparation the engineer shall be notified prior to placement of foundations.

Description	Revisions	BOARDWALK PLAN		Project Information			
				Approved By:	Design:	TWP	TWP
		PUBLIC WORKS TEMPORARY OFFICES CHARLOTTE COUNTY 7000 FLORIDA ST. PUNTA GORDA, FL 33950		Scale: N.T.S.	Drawn:	TWP	TWP
				Job No.: 24020.003	Checked:	BTC	BTC
				Date Issued: 05/27/2025			
		PUNTA GORDA, FL 33950		The Weiler Engineering Corporation WEC --- An Apex Company --- 201 WEST MARION AVENUE SUITE 1305 PUNTA GORDA, FLORIDA 33950 PHONE: (841) 505-1700 FAX: (841) 505-1702 EB# 6656			
Sheet No.		S1.2					

STAIR 4
STAIR WILL BE PROVIDED BY
COUNTY FOR CONTRACTOR TO
INSTALL

2 UNIT BUILDING 10" D"
23'-4" X 56'
AREA= 1,306 SF
MIN. F.F.E= 10.5 NAVD

**REFER TO SHEET
S2.0 FOR BUILDING
FOUNDATIONS**

RAMP 4
RAMP WILL BE PROVIDED BY
COUNTY FOR CONTRACTOR TO
INSTALL

BOARDWALK PLAN

REFER TO SHEET S1.2

6-UNIT BUILDING "C"
70'X60'
AREA= 4,200 SF
MIN. F.F.E= 10.5 NAVD
REFER TO SHEET
S2.2 FOR BUILDING
FOUNDATIONS

2 UNIT BUILDING **D"**
23'-4" X 56'
AREA= 1,306 SF
MIN. F.F.E= 10.5 NAVD

**REFER TO SHEET
S2.0 FOR BUILDING
FOUNDATIONS**

RAMP 4

STAIR 3

STAIR WILL BE PROVIDED BY
COUNTY FOR CONTRACTOR TO
INSTALL

THE WELER ENGINEERING CORPORATION

These Plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-22
Building Risk Category: RISK II
Design Wind Speed: Ultimate V_{90} =160 MPH / Nominal V_{90} =124 MPH
Wind Importance Factor: 1.0 / Wind Exposure: C
Internal Pressure Coefficient: 40.00
Component & Cladding Wind Pressure: per Calcs

FLOOD PARAMETERS

FEMA FIRP Map Number: 1201502042G
Base Flood Elevation: AE-09
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 161.1)

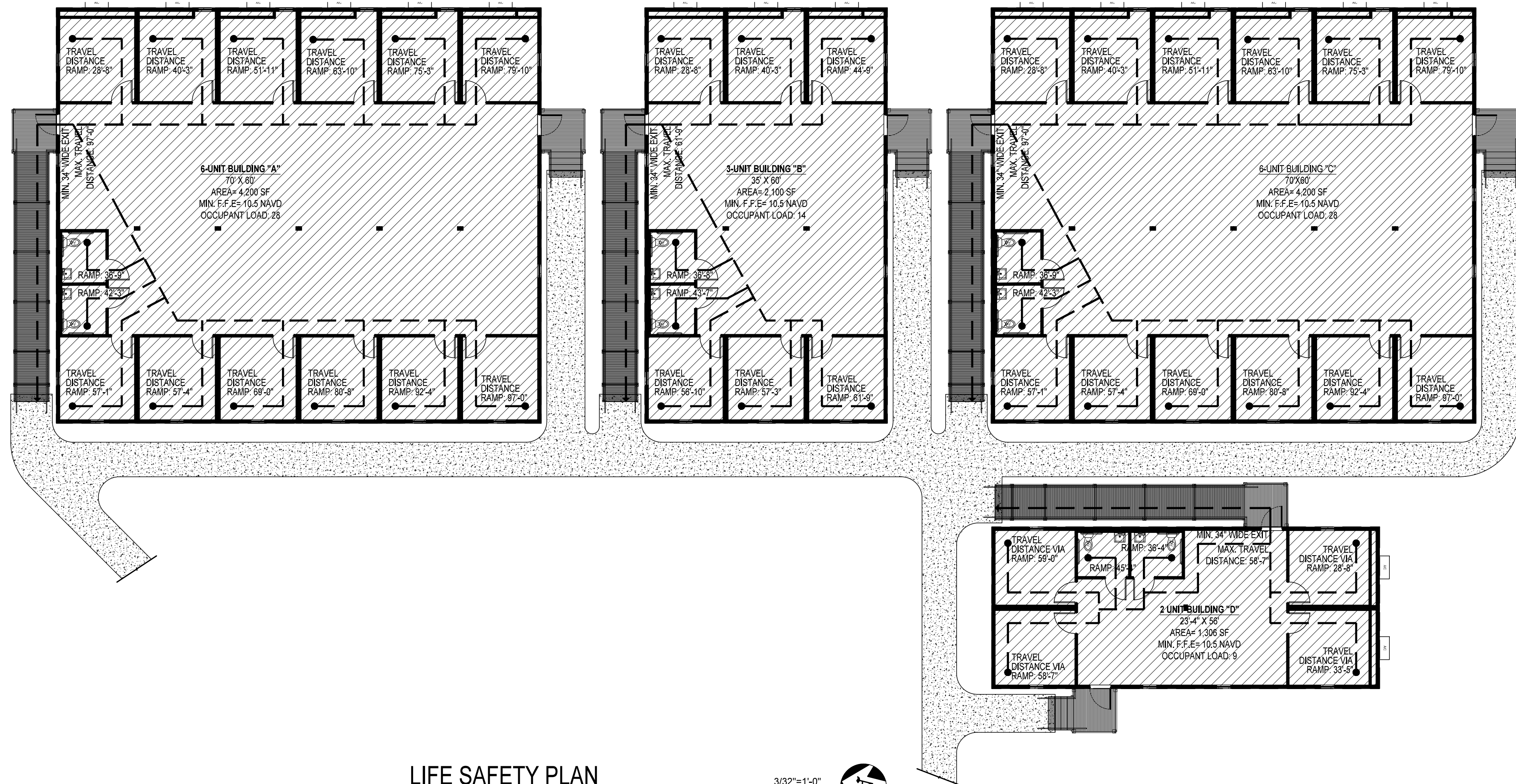
GEOTECHNICAL PARAMETERS

Data Source: Presumptive Load-Bearing Values of Soils, FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Pressure: 100 psft (FBC 2023 Table 1806.2)

FOUNDATION SOIL AND TREATMENT

Soil Bearing Capacity Listed & the resultant foundation design assumes the soil type noted as per USGS web soil survey (or geotechnical engineering) if needed, if inadequate substrate is discovered during site preparation the engineer shall be notified prior to placement of foundations

BOARDWALK PLAN PUBLIC WORKS TEMPORARY OFFICES CHARLOTTE COUNTY 7000 FLORIDA ST. PUNTA GORDA, FL 33950	WEC WELER ENGINEERING CORPORATION excellence in engineering --- An Apex Company --- 201 WEST MARION AVENUE SUITE 1306 PUNTA GORDA, FLORIDA 33950 PHONE: (941) 505-1700 FAX: (941) 505-1702	Project Information	
		Approved By: _____ Scale: N.T.S. Job No.: 24020.003 Date Issued: 05/27/2025	Design: _____ Drawn: _____ Checked: _____ TWP _____ BTC _____
Revisions	Description	THIS SHEET IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED ENGINEER. Max Morgan, Professional Engineer, State of Florida, License No. 94877 This item has been digitally signed and sealed by Max Morgan, P.E., on the date indicated here, 05-27-2025 Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. Max Morgan Professional Engineer State of Florida Registration No. 94877	
Sheet No.	S1.3		



LIFE SAFETY PLAN

$$3/32'' = 1'-0''$$


NOTE:

1. REFER TO MODULAR MANUFACTURES PLANS FOR ADA COMPLIANCE OPENINGS AND MOUNTING HGTS.
2. REFER TO MODULAR MANUFACTURES PLANS FOR EMERGENCY LIGHTING AND FIRE SUPPRESSION EQUIPMENT AND LOCATION.
3. ANY LIP OR CHANGE IN ELEVATION OF WALKING SURFACE GREATER THAN 1/4" SHALL BE BEVELED TO MEET ADA REQUIREMENTS, NO LIP OR UNEVENNESS IN THE WALKING SURFACE GREATER THAN 1/2" SHALL BE PERMITTED

DESIGN CRITERIA

1. FLORIDA BUILDING CODE (FBC) 8TH EDITION (2023)
2. FLORIDA FIRE PREVENTION CODE (FFPC) 8TH EDITION
3. OCCUPANCY CLASSIFICATION = BUSINESS GROUP B
4. BUILDING CONSTRUCTION IS TYPE VB
5. STRUCTURAL FIRE-RESISTANT RATING REQUIREMENTS = 0 HOURS
6. FIRE SPRINKLER SYSTEM IS NOT REQUIRED OR PROVIDED
7. BUILDING AREA:
 - 7.1. 6 UNIT BUILDING A: 4,200 SQ. FT.
 - 7.2. 3 UNIT BUILDING B: 2,100 SQ. FT.
 - 7.3. 6 UNIT BUILDING C: 4,200 SQ. FT.
 - 7.4. 2 UNIT BUILDING D: 1,306 SQ. FT.
 - 7.4.1. TOTAL FOR ALL BUILDING AREA: 11,806 SQ. FT.
8. BUILDING HEIGHT = ONE STORY
9. EGRESS CALCULATIONS:
 - 9.1. 6 UNIT BUILDING A: 4,200 SQ. FT. / 150 GROSS = 28 OCCUPANTS X 0.2" EGRESS WIDTH FACTOR = 5.6" EGRESS WIDTH REQUIRED
 - 9.1.1. 34" EGRESS WIDTH PROVIDED PER EACH DOOR MIN.
 - 9.2. 3 UNIT BUILDING B: 2,100 SQ. FT. / 150 GROSS = 14 OCCUPANTS X 0.2" EGRESS WIDTH FACTOR = 2.8" EGRESS WIDTH REQUIRED
 - 9.2.1. 34" EGRESS WIDTH PROVIDED PER EACH DOOR MIN.
 - 9.3. 6 UNIT BUILDING C: 4,200 SQ. FT. / 150 GROSS = 28 OCCUPANTS X 0.2" EGRESS WIDTH FACTOR = 5.6" EGRESS WIDTH REQUIRED
 - 9.3.1. 34" EGRESS WIDTH PROVIDED PER EACH DOOR MIN.
 - 9.4. 2 UNIT BUILDING D: 1,306 SQ. FT. / 150 GROSS = 9 OCCUPANTS X 0.2" EGRESS WIDTH FACTOR = 1.8" EGRESS WIDTH REQUIRED
 - 9.4.1. 34" EGRESS WIDTH PROVIDED PER EACH DOOR MIN.
10. MINIMUM NUMBER OF EXITS PROVIDED FOR EACH BUILDING: 2 EXITS WITH A MINIMUM WIDTH OF 34"
11. MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE TO EXIT = OCCUPANT LOAD LESS THAN 30: 100'-0" AND MAXIMUM DISTANCE PROVIDED = 97'-0"

THE WEILER ENGINEERING CORPORATION

These plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicate

WIND PARAMETERS

Method of Design: ASCE 7-22
Building Risk Category: RISK II
Design Wind Speed: Ultimate V_{ult} =160 MPH / Nominal V_{nom} = 124 MPH
Wind Importance Factor: 1.0 / Wind Exposure: C
Internal Pressure Coefficient: ± 0.00
Component & Cladding Wind Pressure: per Calcs

FLOOD PARAMETERS

FEMA FIRM Map Number: 12015C0242G
Base Flood Elevation: AE-09
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)

GEOTECHNICAL PARAMETERS

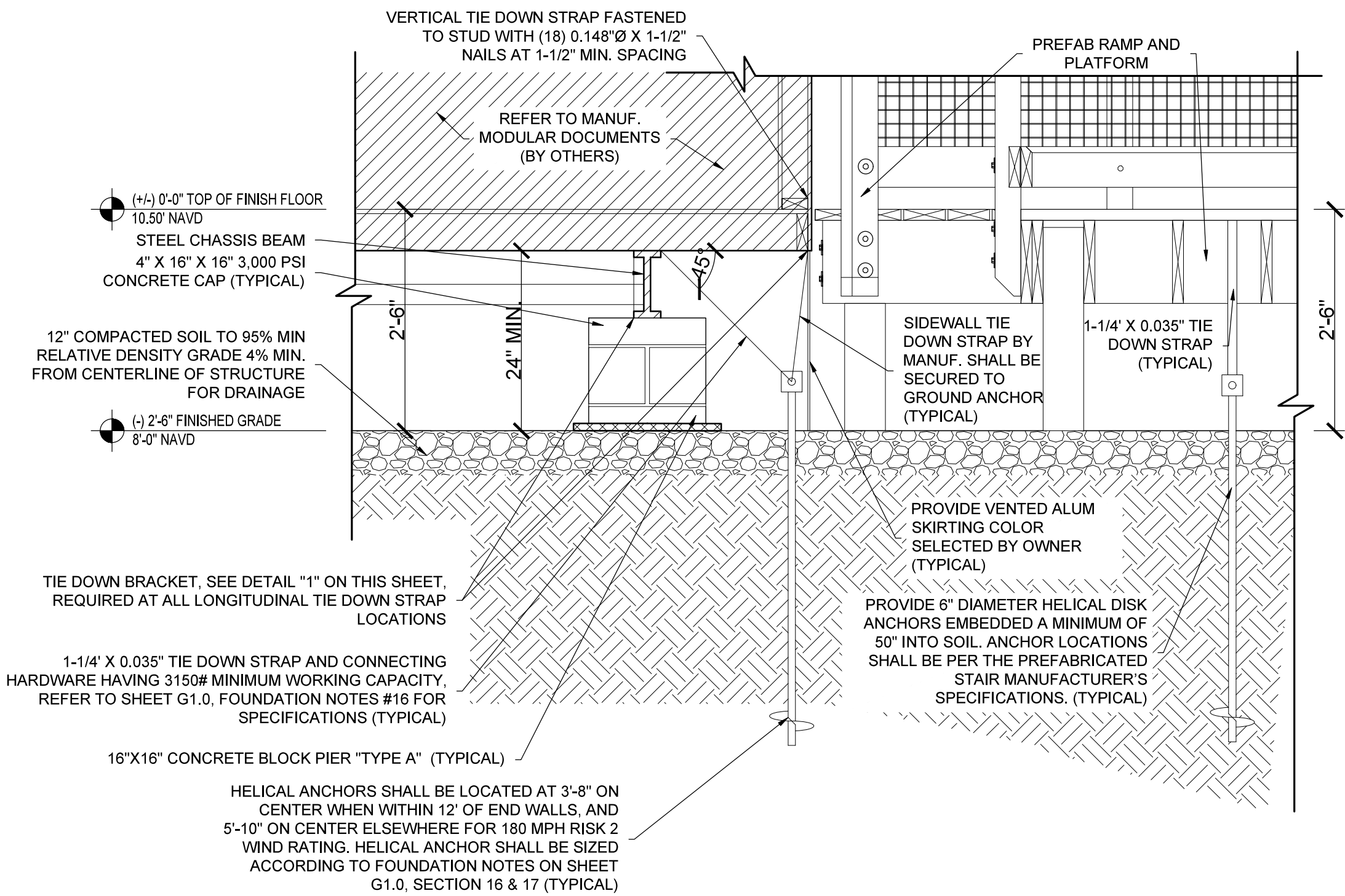
Data Source: Presumptive Load-Bearing Values of Soils, FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Pressure: 100 psf/ft (FBC 2023 Table 1806.2)

FOUNDATION SOIL AND TREATMENT

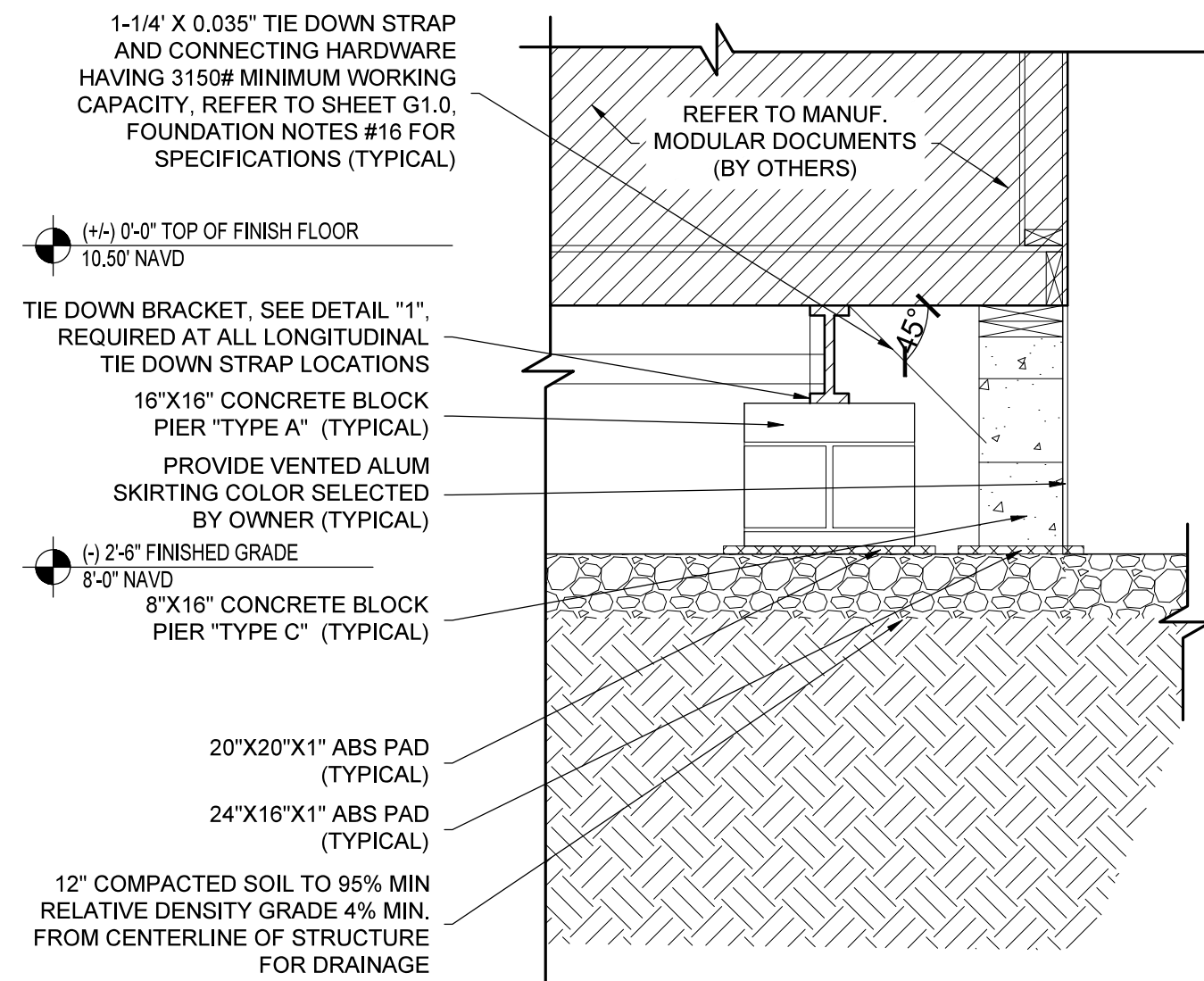
Soil Bearing Capacity Listed & the resultant foundation design assumes the soil type noted as per USGS web soil survey (or geotechnical engineering if provided). If inadequate substrate is discovered during site preparation the engineer shall be notified prior to placement of foundations.

LIFE SAFETY & CONCRETE WALK PLAN PUBLIC WORKS TEMPORARY OFFICES CHARLOTTE COUNTY 7000 FLORIDA ST. PUNTA GORDA, FL 33950		WELLER ENGINEERING CORPORATION wec silence in engineering --- An Apex Company --- 201 WEST MARION AVENUE SUITE 1306 PUNTA GORDA, FLORIDA 33950 PHONE: (941) 505-1700 FAX: (941) 505-1702		Project Information Approved By: _____ Design: _____ TWP Scale: N.T.S. Drawn: _____ TWP Job No.: 24020.003 Checked: _____ BTC Date Issued: 05/27/2025 EB# 6856	
Description		Revisions			
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Max Morgan Professional Engineer State of Florida Registration No. 94877					
Sheet No. S1.4					

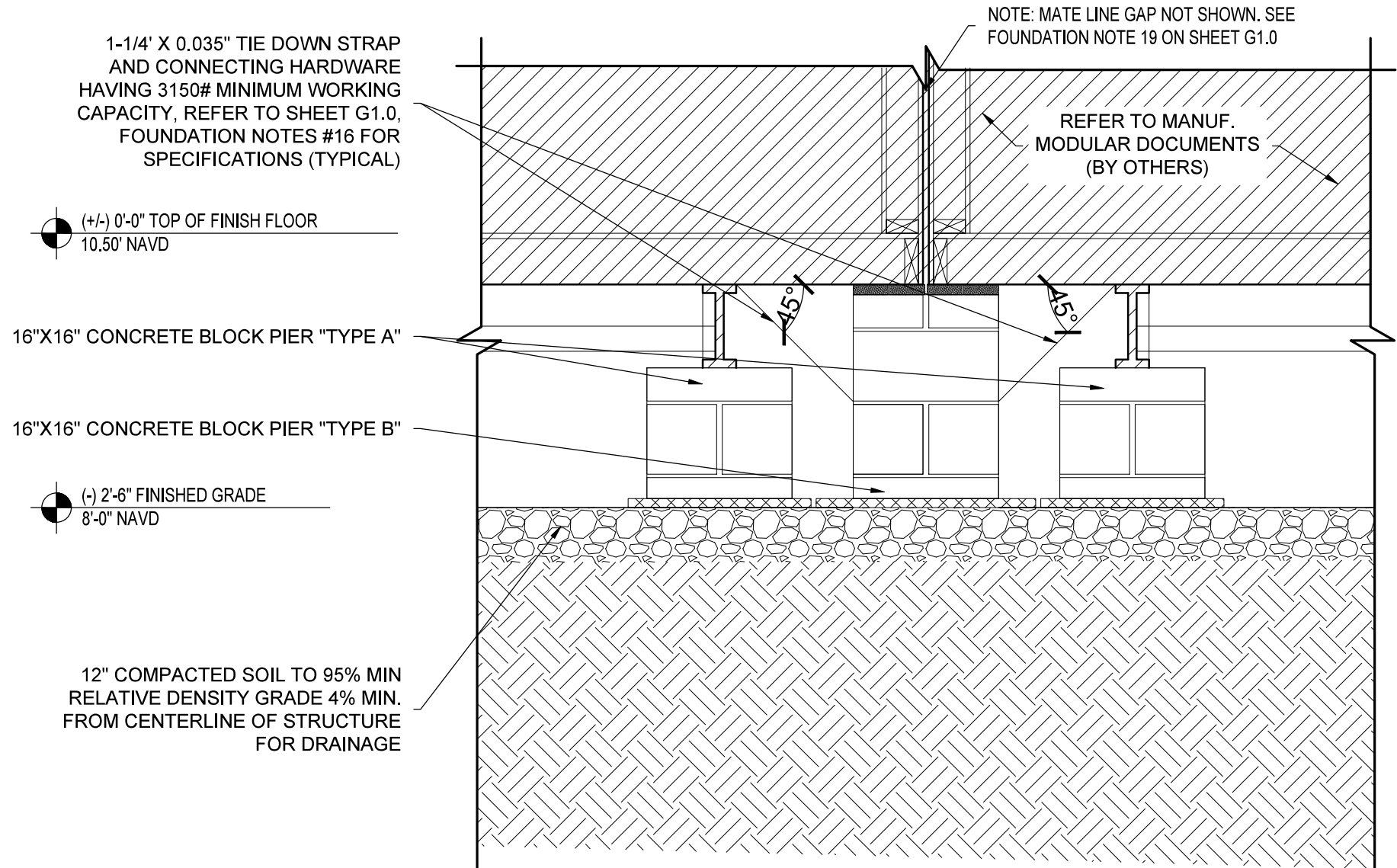
USER: Tom.Parker PLOTTED THE S2.0 LAYOUT OF C:\Users\TOM\OneDrive\Temp\ApexData\Local\Temp\ApexData\20250527.dwg, ON May 27, 2025 @ 10:11am



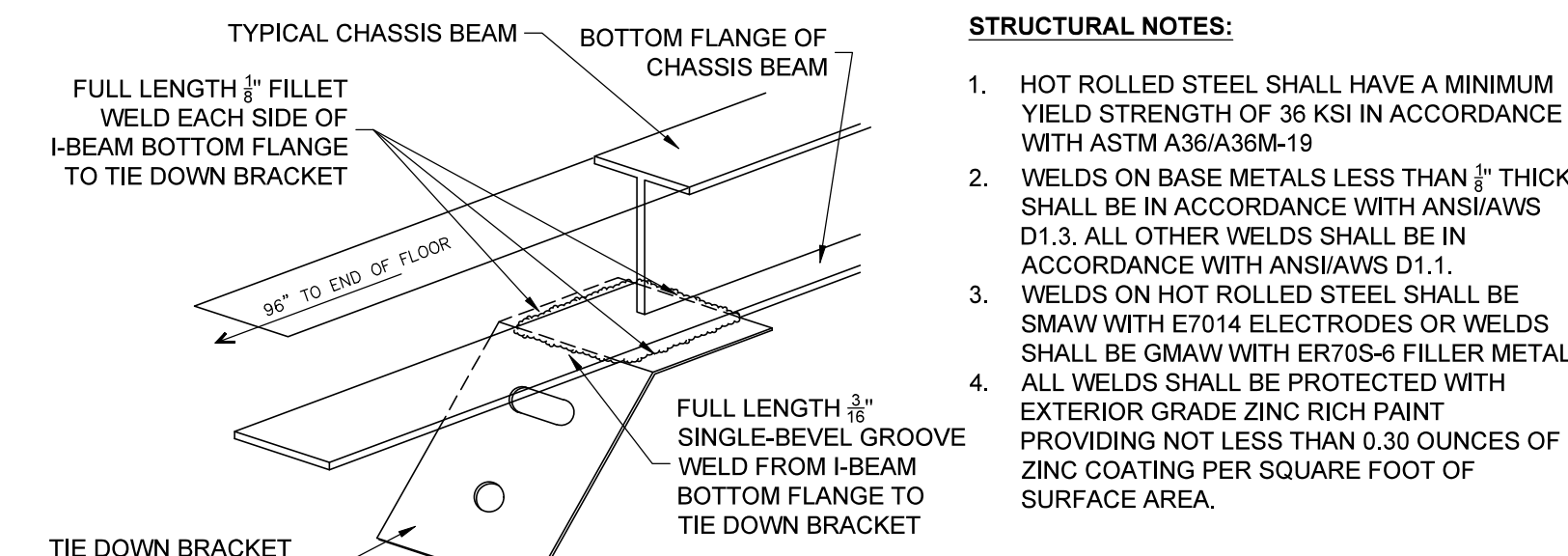
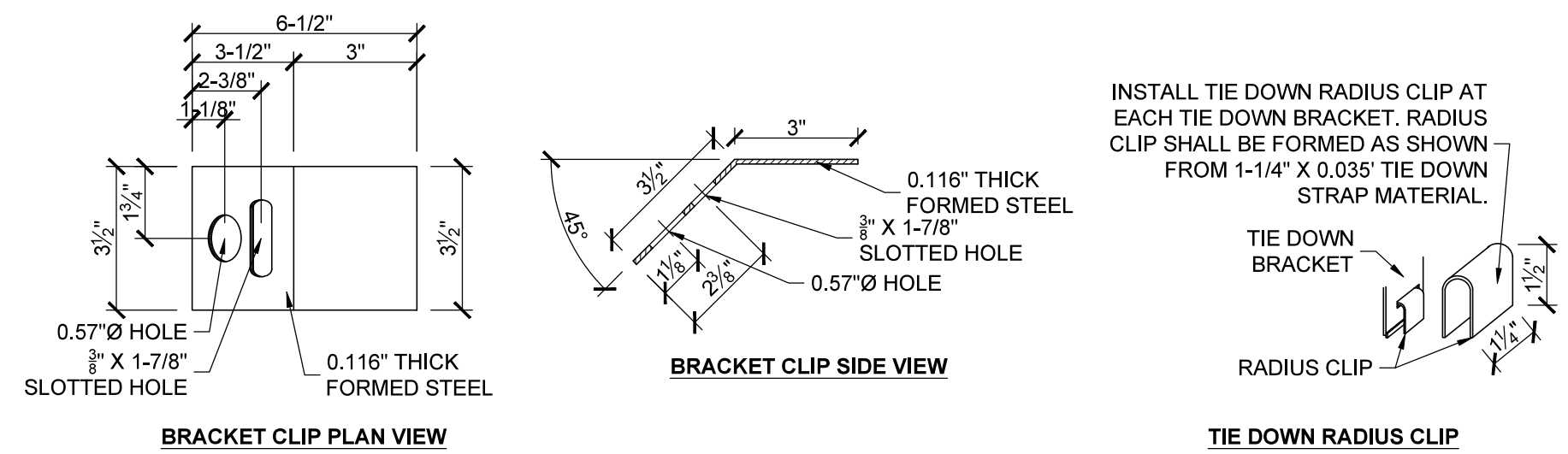
A TYP. FOUNDATION DETAIL
3/4" = 1'-0"



B FOUNDATION DETAIL
3/4" = 1'-0"



C FOUNDATION DETAIL
3/4" = 1'-0"



1 TYP. TIE DOWN BRACKET DETAIL
3" = 1'-0"

NOTE
1. MONITORING WELL LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION PRIOR TO BIDDING.
2. CONTRACTOR SHALL PROVIDE FOUNDATIONS IN ACCORDANCE WITH MODULAR MANUFACTURER'S ENGINEERED DRAWINGS.
3. STAIRS AND RAMPS WILL BE PROVIDED BY COUNTY.

FOUNDATION LEGEND

- PIER TYPE "A" ON 20"x20"x1" ABS PAD
- PIER TYPE "B" 24"x24"x1" ABS PAD
- PIER TYPE "C" 24"x24"x1" ABS PAD
- HELICAL ANCHORS AND TIE DOWN STRAP

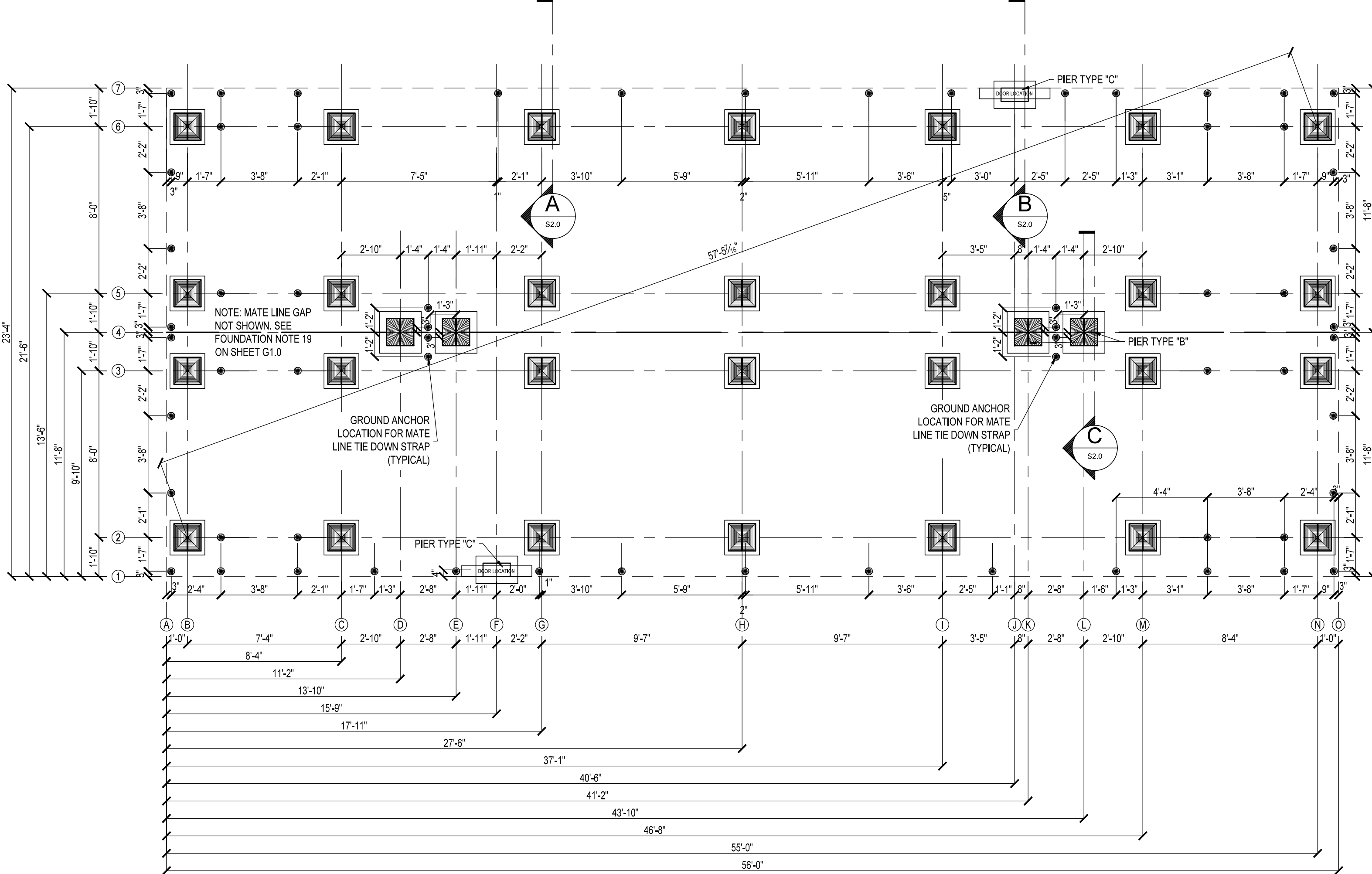
THE WEILER ENGINEERING CORPORATION
These plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicated.

WIND PARAMETERS
Method of Design: ASCE 7-22
Building Risk Category: RBK II
Design Wind Speed: Ultimate V_{ult} =160 MPH / Nominal V_{nom} =124 MPH
Wind Importance Factor: 1.0 / Wind Exposure: C
Internal Pressure Coefficient: ±0.00
Component & Cladding Wind Pressure: per Calcs

FLOOD PARAMETERS
FEMA FIRM Map Number: 12015C0242G
Base Flood Elevation: AE-09
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)

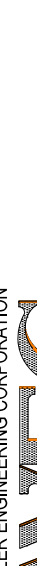
GEOTECHNICAL PARAMETERS
Data Source: Presumptive Load-Bearing Values of Soils, FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Pressure: 100 psf (FBC 2023 Table 1806.2)

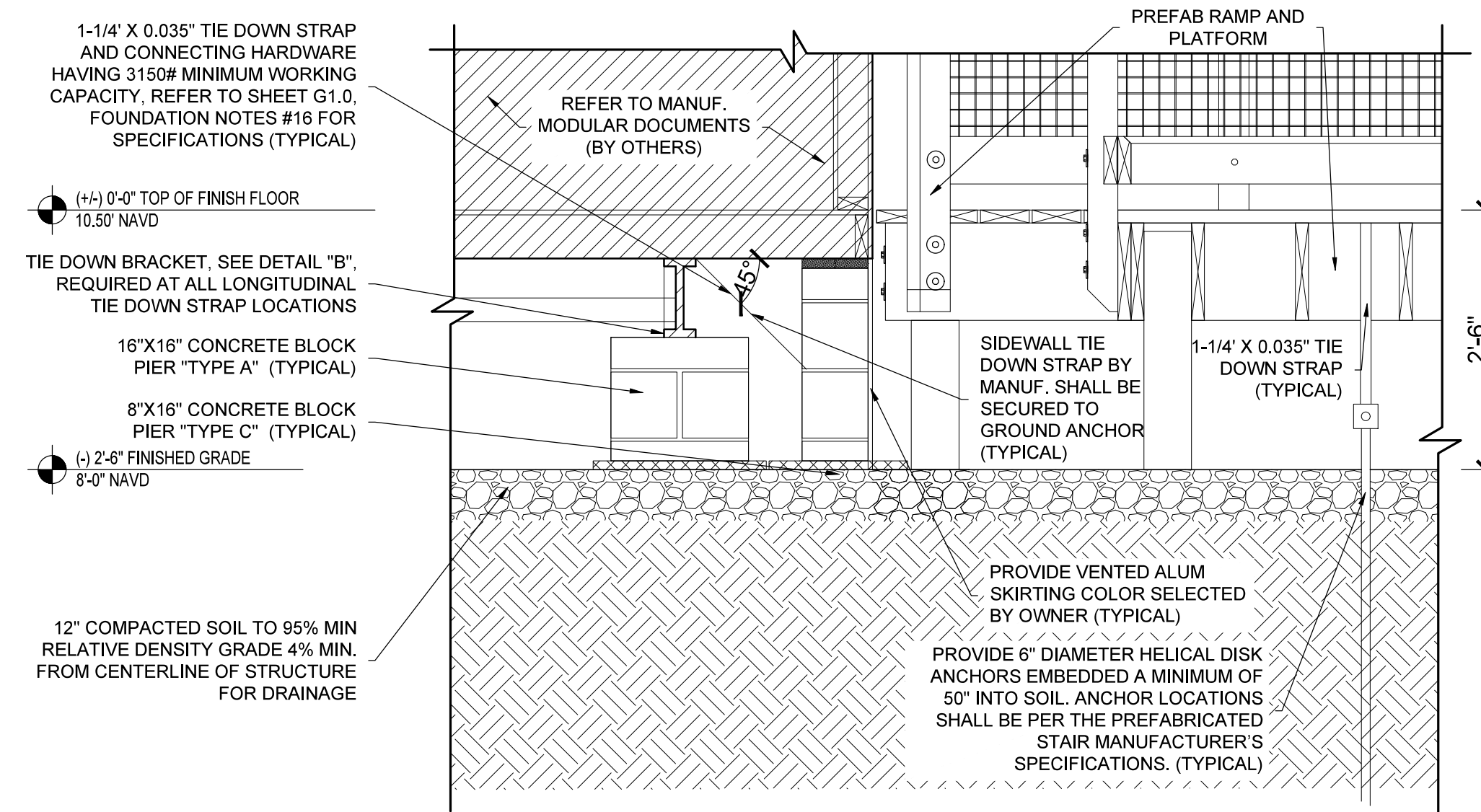
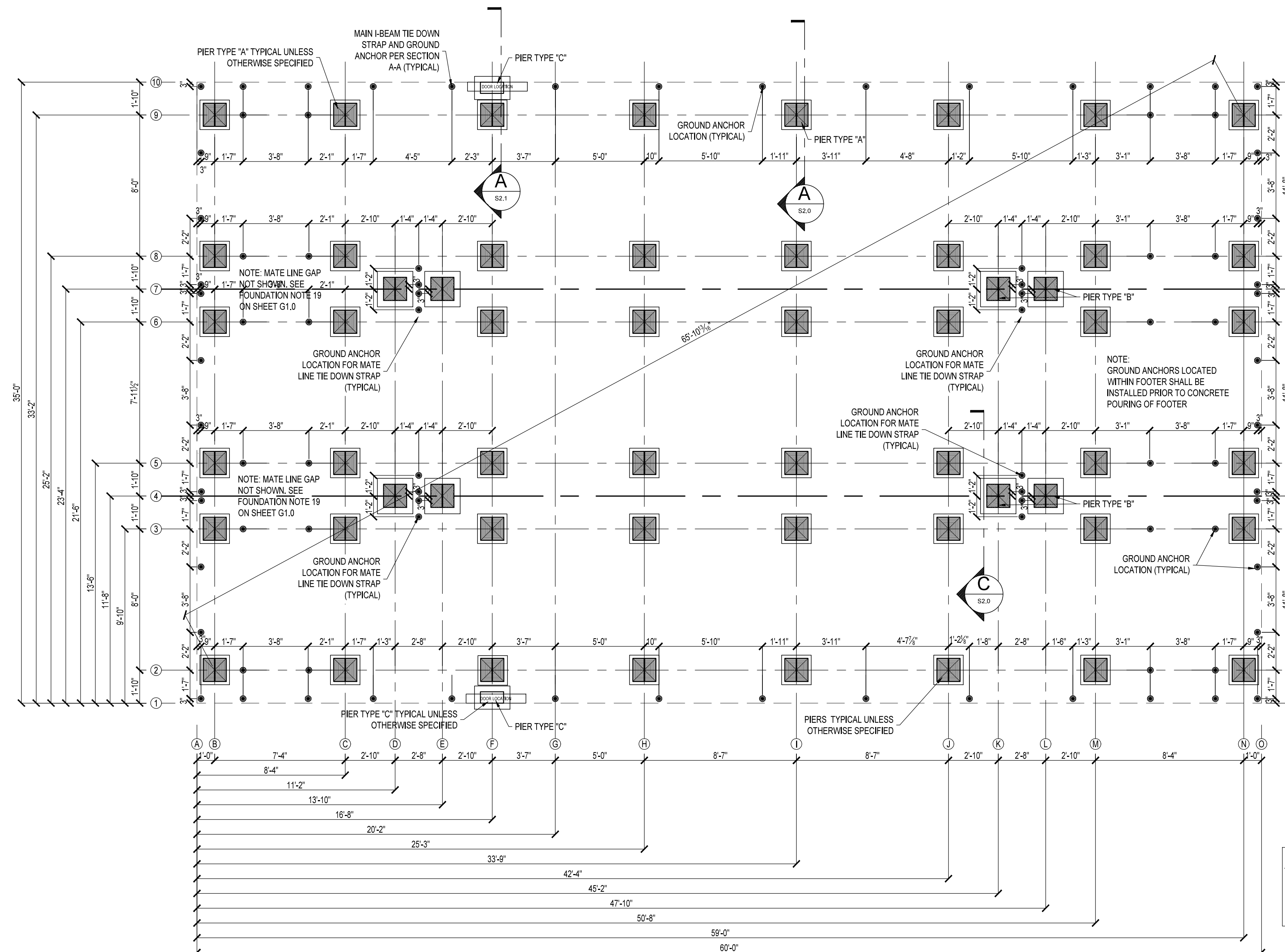
FOUNDATION SOIL AND TREATMENT
Soil Bearing Capacity Listed & the resultant foundation design assumes the soil type noted as per USGS web soil survey (or geotechnical engineering if provided), if inadequate substrate is discovered during site preparation the engineer shall be notified prior to placement of foundations.



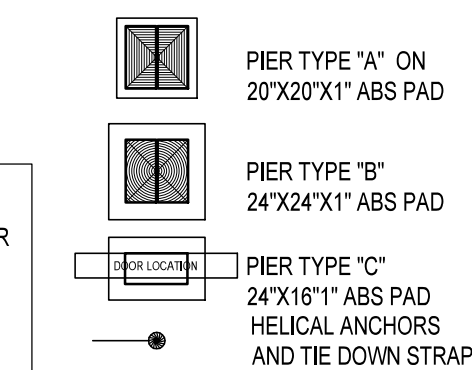
2 UNIT MODULAR FOUNDATION PLAN

1/4" = 1'-0"

WELER ENGINEERING CORPORATION  WEC excellence in engineering --- An Apex Company --- 201 WEST MARION AVENUE SUITE 1306 PUNTA GORDA, FLORIDA 33950 PHONE: (841) 505-1700 FAX: (841) 505-1702		Project Information	
		Approved By:	Design:
		Scale: N.T.S.	Drawn:
		Job No.: 24020.003	Checked:
		Date Issued: 05/27/2025	
		EB# 6656	
2 UNIT MODULAR FOUNDATION PLAN PUBLIC WORKS TEMPORARY OFFICES CHARLOTTE COUNTY 7000 FLORIDA ST. PUNTA GORDA, FL 33950			
Description		Revisions	



A FOUNDATION DETAIL
3/4" = 1'-0"



- NOTE**
1. MONITORING WELL LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION PRIOR TO BIDDING
 2. CONTRACTOR SHALL PROVIDE FOUNDATIONS IN ACCORDANCE WITH MODULAR MANUFACTURER'S ENGINEERED DRAWINGS
 3. STAIRS AND RAMPS WILL BE PROVIDED BY COUNTY

FOUNDATION LEGEND

THE WEILER ENGINEERING CORPORATION

These plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-22
Building Risk Category: Risk I
Design Wind Speed: $U_{ref} = 160$ MPH / Nominal $V_{nom} = 124$ MPH
Wind Importance Factor: 1.0 / Wind Exposure: C
Internal Pressure Coefficient: 0.00
Component & Cladding Wind Pressure: per Calcs

FLOOD PARAMETERS

FEMA FIRM Map Number: 120150242G
Base Flood Elevation: 45.09
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 161.1)

GEOTECHNICAL PARAMETERS

Soil Bearing Capacity: Presumptive Load-Bearing Values of Soil: FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Pressure: 100 psf (FBC 2023 Table 1806.2)

FOUNDATION SOIL AND TREATMENT

Soil Bearing Capacity Listed & the resultant foundation design assumes the soil type noted as per UCSG with soil survey (or geotechnical engineering if provided). If inadequate subsurface is discovered during site preparation the engineer shall be notified prior to placement of foundations.

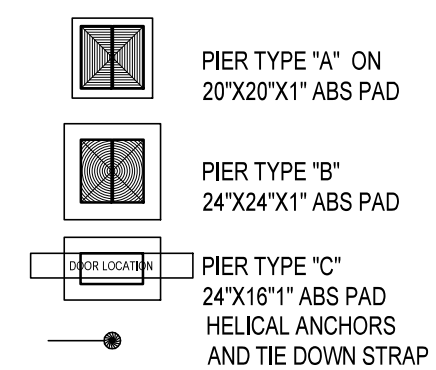
THIS SHEET IS NOT VALID WITHOUT THE SIGNATURE AND PERSONAL SEAL OF A FLORIDA LICENSED ENGINEER. Max Morgan, Professional Engineer State of Florida Registration No. 94877 Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.		Revisions		3 UNIT MODULAR FOUNDATION PLAN PUBLIC WORKS TEMPORARY OFFICES CHARLOTTE COUNTY 7000 FLORIDA ST. PUNTA GORDA, FL 33950		WELER ENGINEERING CORPORATION WEC excellence in engineering --- An Apex Company --- 201 WEST MARION AVENUE PUNTA GORDA, FLORIDA 33950 PHONE (941) 506-1700 FAX: (941) 505-1702		Project Information Approved By: _____ Design: _____ Scale: N.T.S. Job No.: 24020.003 Date Issued: 05/27/2025 Drawn: _____ Checked: _____ TWP: _____ BTC: _____	
Sheet No. _____		S2.1							

[illegible]

1/4"-1'-0"



1. MONITORING WELL LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION PRIOR TO BIDDING
2. CONTRACTOR SHALL PROVIDE FOUNDATIONS IN ACCORDANCE WITH MODULAR MANUFACTURER'S ENGINEERED DRAWINGS
3. STAIRS AND RAMPS WILL BE PROVIDED BY COUNTY



1/4" = 1'-0"

THE WEILER ENGINEERING CORPORATION

These plans are in Compliance with Florida Building Code 2023 (FBC) for the parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-22
Building Risk Category: RISK II
Design Wind Speed: Ultimate $V_{ult}=160$ MPH / Nominal $V_{nom}=124$ MPH
Wind Importance Factor: 1.0 / Wind Exposure: C
Internal Pressure Coefficient: 0.00
Component & Cladding Wind Pressure: per Calcs

FLOOD PARAMETERS

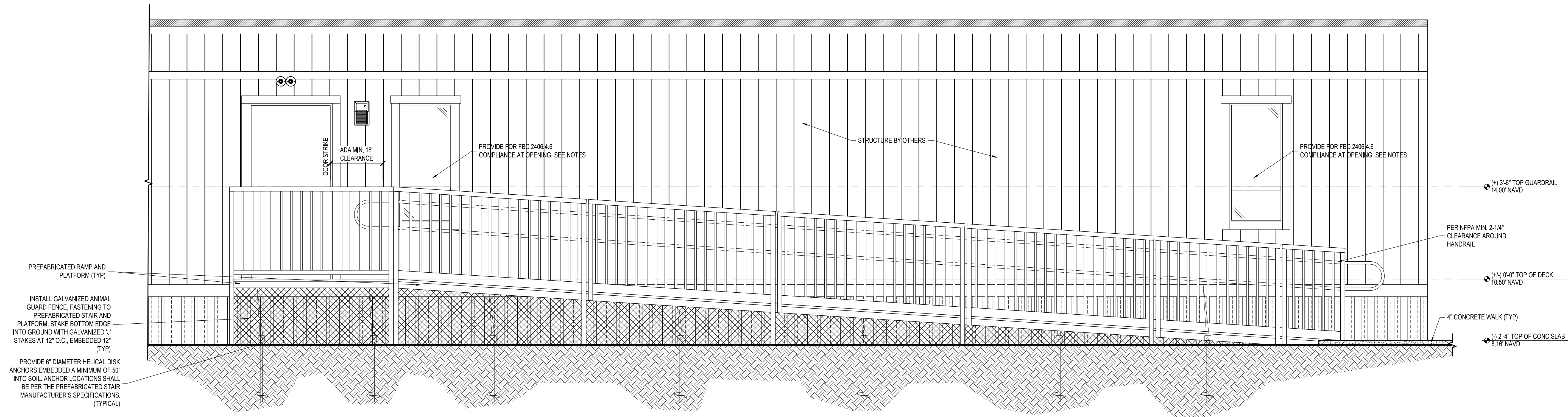
FEMA FIRM Map Number: 1302010242G
Base Flood Elevation: 15-09
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)

GEOTECHNICAL PARAMETERS

Data Source: Presumptive Load-Bearing Values of Soils, FBC 2023 1806.2
Vertical Bearing Capacity: 1,500 psf (FBC 2023 Table 1806.2)
Lateral Bearing Pressure: 100 psf (FBC 2023 Table 1806.2)

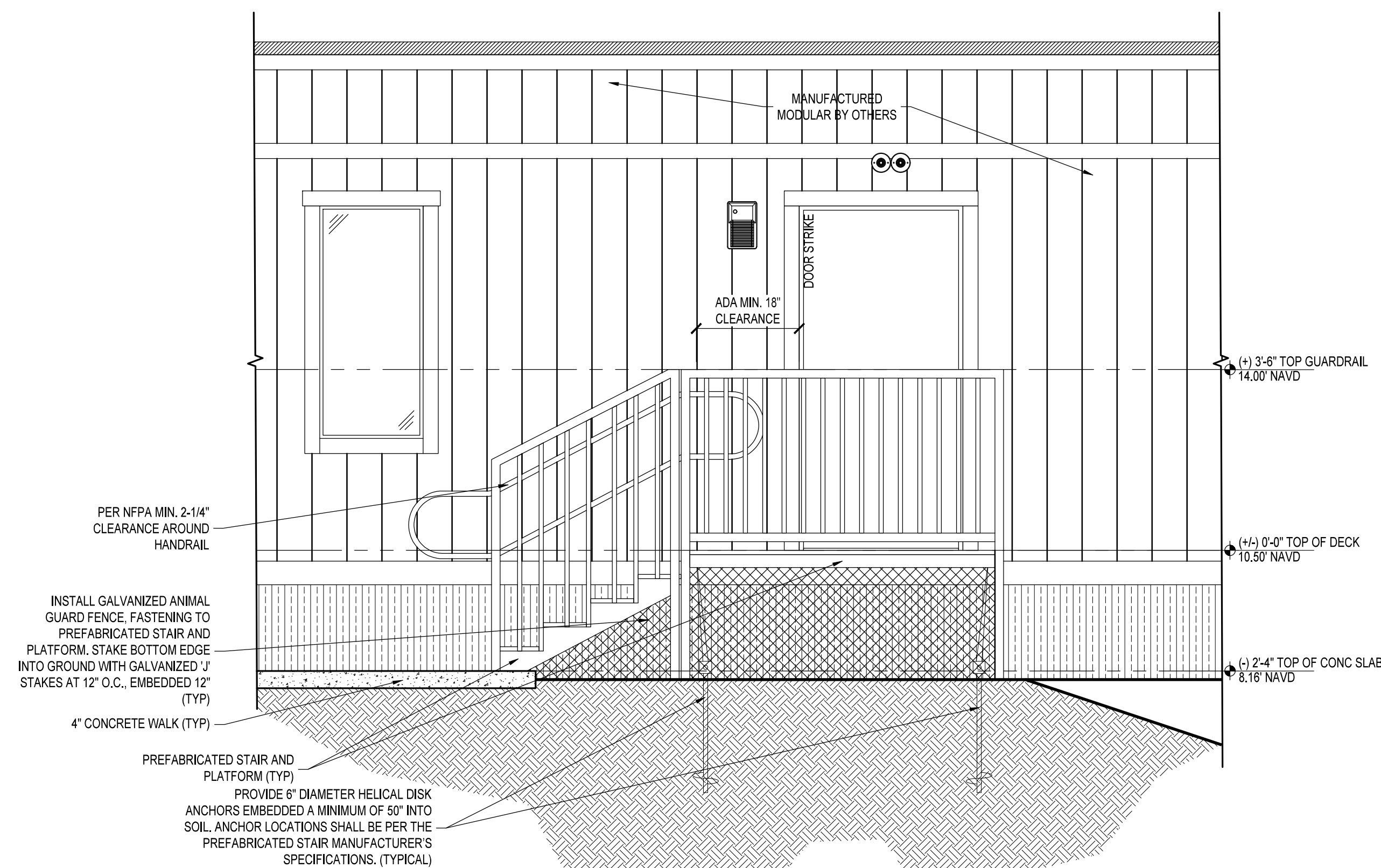
FOUNDATION SOIL AND TREATMENT

Soil Bearing Capacity (Listed & the resultant foundation design assumes the soil type noted as per USGS well soil survey or geotechnical engineering) provided, if inadequate substitute is discovered during site preparation the engineer shall be notified prior to placement of foundations.



2 PREFABRICATED RAMP & PLATFORM

- NOTES:**
1. ANY LIP OR CHANGE IN ELEVATION GREATER THAN 1/4" SHALL BE BEveled TO MEET ADA REQUIREMENTS. NO LIP OR UNEVENNESS IN THE WALKING SURFACE GREATER THAN 1/2" SHALL BE PERMITTED
 2. CONTRACTOR TO VERIFY MODULAR UNITS GLAZING IS COMPLIANT WITH FBC 2006.4.6 GLAZING ADJACENT TO STAIRWAYS AND RAMPS, OR PROVIDE WINDOW TREATMENT TO ENSURE COMPLIANCE. IF WINDOW COMPONENT IS NON-COMPLIANT A COMPLIANT COVERING SHALL BE PROVIDED SUCH AS POLYCARBONATE. CONTRACTOR SHALL PROVIDE A SUBMITTAL TO OWNER FOR REVIEW PRIOR TO ORDERING.
 3. STAIRS AND RAMPS WILL BE PROVIDED BY COUNTY



1 PREFABRICATED STAIR & PLATFORM
1/2" = 1'-0"

THIS SHEET IS NOT VALID WITHOUT THE SIGNATURE AND EXPIRATION DATE OF A FLORIDA LICENSED ENGINEER. Max Morgan, Professional Engineer State of Florida Registration No. 54877 This item has been digitally signed and sealed by Max Morgan, P.E. on the date indicated here, 05-27-2025 Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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