

PANAMA CITY TERMINAL EXPANSION

PANAMA CITY, FLORIDA



NORTHWEST FLORIDA
BEACHES INTERNATIONAL AIRPORT

BID DOCUMENTS
JUNE 21, 2019



2211 THOMAS DRIVE, SUITE 100
PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832

Commission Number: 18771

STRUCTURAL

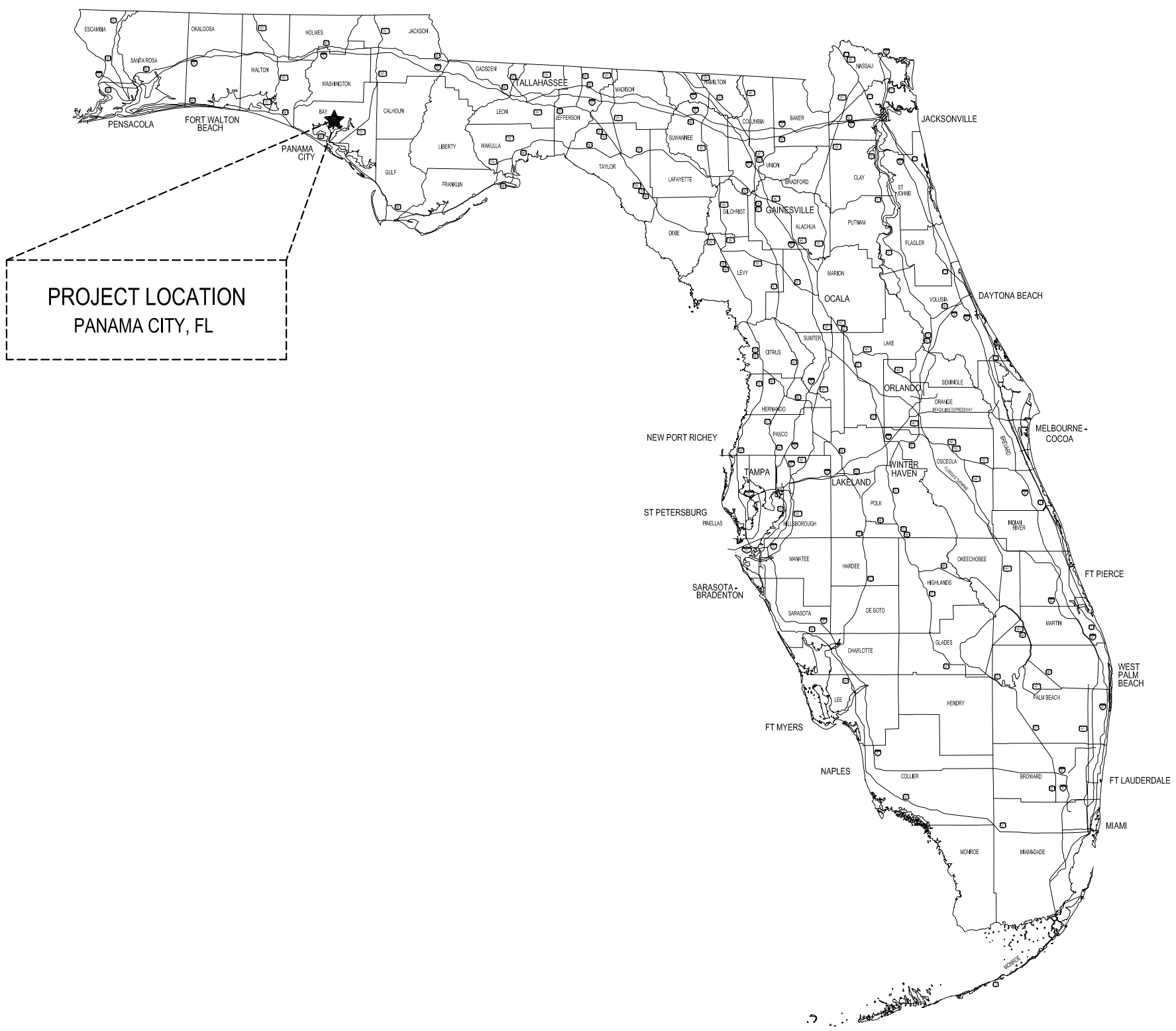
BTK ENGINEERING SERVICES, INC.
1101 BRICKYARD ROAD
CHIPLEY, FL 32428
PHONE: (850) 676-4140

ELECTRICAL

HUMBER GARICK CONSULTING ENGINEERS
142 EGLIN PARKWAY SE
FORT WALTON BEACH, FL 32548
PHONE: (850) 243-6723

MECHANICAL / PLUMBING / FIRE PROTECTION

WATFORD ENGINEERING, INC.
4471 CLINTON STREET
MARIANNA, FL 32446
PHONE: (850) 526-3447

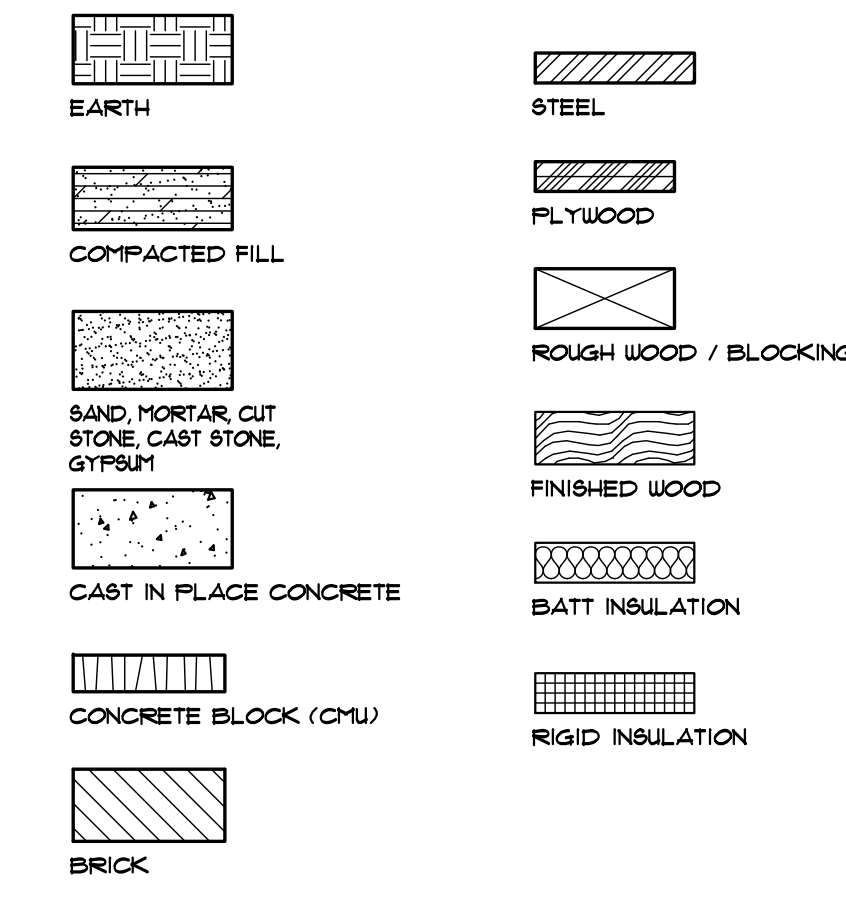


STATE OF FLORIDA

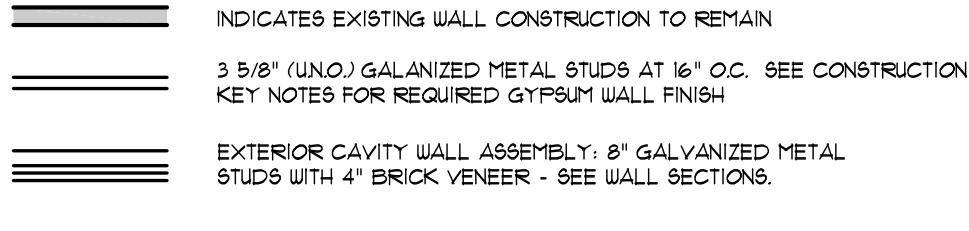


VICINITY MAP
NOT TO SCALE

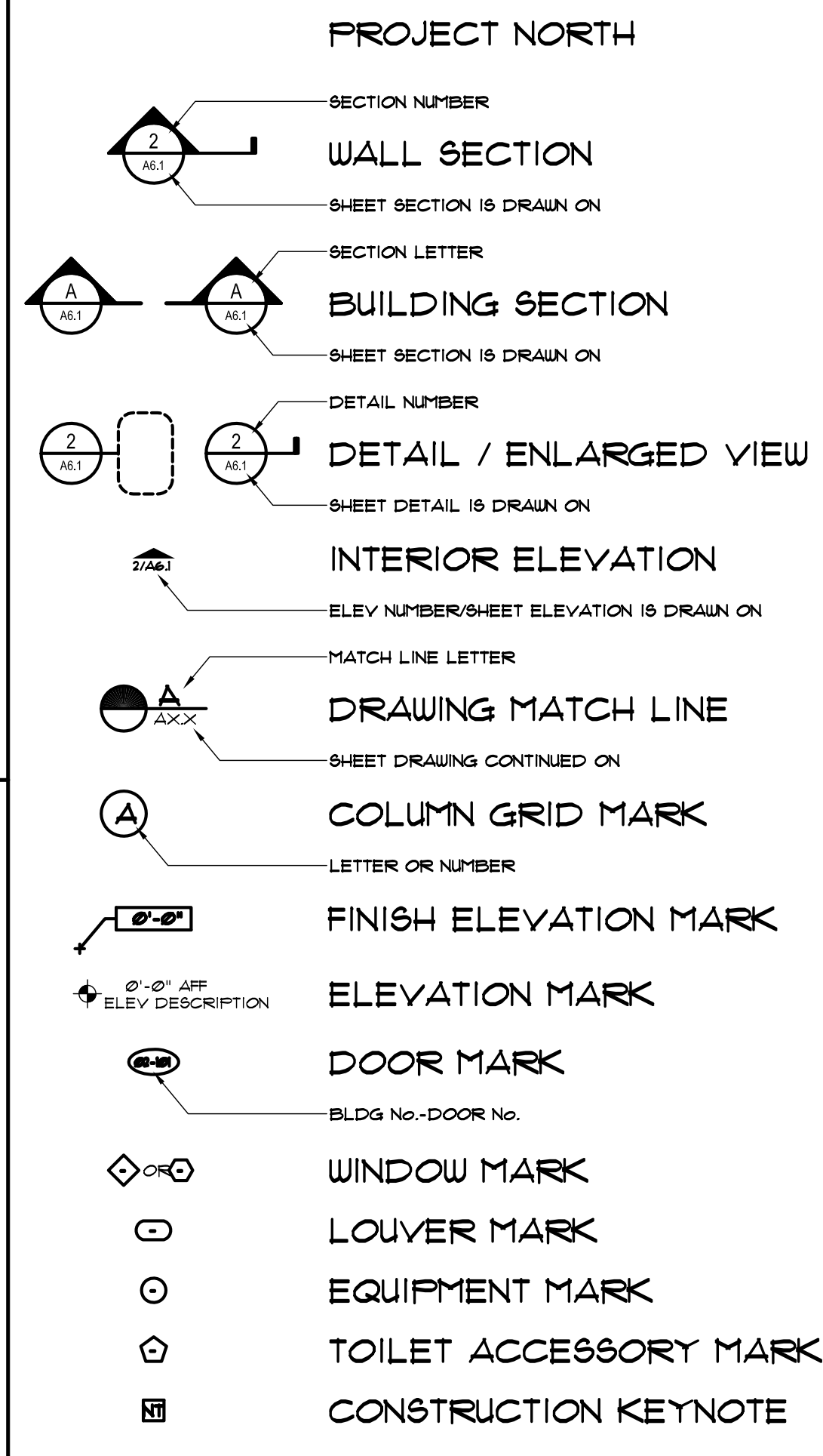
ARCHITECTURAL MATERIALS



ARCHITECTURAL WALL TYPES



ARCHITECTURAL SYMBOLS



STANDARD ABBREVIATIONS

<p>AB - Anchor Bolt ABV - Above A/C - Air Conditioning ACI - American Concrete Institute ACST - Acoustic ACT - Actual ADD - Addendum ADJ - Adjacent ADJT - Adjustable AFF - Above Finish Floor AGG - Aggregate ALT - Alternate ALUM - Aluminum ANC - Anchor ANSI - American National Stds. Inst. APPROX - Approximate ARCH - Architectural ASPH - Asphalt ASTM - American Society of Test. & Mats. AWS - American Welding Society</p> <p>BB - Beam Bolster BB - Board & Batten BC - Bottom Chord BD - Board BEL - Balcony BIDS - Bidding Information Display System BIT - Bituminous BLDG - Building BLK - Block BLKG - Blocking BLT - Bolt BM - Beam BM - Bench Mark BOT - Bottom BR - Brace BRDG - Bridging BRG - Bearing BRK - Brick BRKT - Bracket BSMT - Basement BS - Both Sides BTWN - Between BUR - Built-up Roof BVL - Bevel BW - Both Ways</p> <p>C - Channel CAD - Calcium CAP - Capacity CARP - Carpet CAT - Catalog CB - Catch Basin C/C - Center to Center CLG - Ceiling CEM - Cement CF - Cubic Feet CFM - Cubic Feet Per Minute CHAM - Chamber CI - Cast Iron CIR - Circle CIP - Cast-in-place CJ - Control Joint CJ - Caulk C/L - Chain Link (Fence) CL - Centerline CLO - Closet CLR - Clearance, Clear CLS - Closure CMU - Concrete Masonry Unit CONTR - Counter</p>	<p>COL - Column COMM - Communications COMP - Compressor, Composite CONC - Concrete CONN - Connection, Connect CONSTR - Construction CONT - Continuous CONTR - Contractor CORR - Corrugated, Corridor CR - Cold Rolled CRS - Course CS - Countersink CT - Ceramic Tile ANC - Anchor ANSI - American National Stds. Inst. APPROX - Approximate ARCH - Architectural ASPH - Asphalt ASTM - American Society of Test. & Mats. AWS - American Welding Society</p> <p>DBL - Double DEG - Degree DEPT - Department DEPR - Depressed DEPT - Department DES - Double Extra Strong DTL - Detail DF - Drinking Fountain DIA - Diameter DIA - Diagonal DIAPHR - Diaphragm DIM - Dimension DIR - Director DK - Deck DL - Dead Load DN - Down DO - Ditch DP - Damp Proofing DR - Door DS - Downspout DTA - Dovetail Anchor DTL - Detail DTB - Dovetail Slot DUG - Drawing DUGS - Drawings DWL - Dowel</p> <p>E - East EA - Each EF - Each Face EFS - Exterior Finish System EFS - Exterior Insulating Finish System EJ - Expansion Joint EL - Elevation ELECT - Electrical ELEV - Elevator, Elevation EMER - Emergency ENCL - Enclosure ENT - Entrance EQ - Equal EQUIP - Equipment ES - Extra Strong EST - Estimated EVID - Evidence EW - Each Way EWC - Electric Water Cooler EXC - Excavate EXH - Exhaust EXIST - Existing EXP - Exposed EXPN - Expansion EXT - Exterior</p>	<p>F - Fahrenheit FF - Face to Face FAC - Facility FAS - Fasten, Fastener FBO - Furnished by Others FC - Ultimate Concrete Strength FD - Floor Drain FDN - Foundation FG - Finish Grade FH - Flat Head FHC - Fire Hose Cabinet FIDS - Flight Information Display System FIG - Figure FIN - Finish FL - Floor FLASH - Flashing FLT - Flat FGB - Face of Brick FRFG - Fireproofing FRT - Fire Retardant FT - Foot or Feet FTG - Footing FURR - Furring FUT - Future FUS - Fuses FAS - Masonry MATL - Material MAX - Maximum MB - Machine Bolt MEMB - Member MECH - Mechanical MEMB - Membrane MEZZ - Mezzanine MFR - Manufacturer MH - Manhole MIA - Malleable Iron MIN - Minimum MISC - Miscellaneous MK - Mark ML - Match Line MM - Millimeter MO - Masonry Opening MRR - Men's Restroom MS - Machine Screw MTD - Mounted MTR - Heater MULL - Mullion</p> <p>N - North NA - Not Applicable N/C - Not in Contract NO - Number NOM - Nominal NS - Non Shrink NTS - Not To Scale</p> <p>OA - Overall OC - On Center OD - Outside Diameter (Dim.) OF - Outside Face OH - Overhead OPNG - Opening OPP - Opposite OPPH - Opposite Hand OPS - Operations OVS - Oversized OZ - Ounce</p>	<p>K - Kips (Kilo pound or 1000 lbs.) KD - Kilo Dried KIT - Kitchen KSF - Kips Per Square Foot KSI - Kips Per Square Inch</p> <p>L - Steel Angel Length LAB - Laboratory LAM - Laminated LAV - Lavatory LB - Lag Bolt, Ledger Beam LBS - Pounds LDG - Landing LDF - Low 4 Found System LH - Left Hand LL - Live Load LLH - Long Leg Horizontal LLV - Long Leg Vertical LVL - Live Load LTL - Lintel LTWT - Lightweight LPT - Low Point LVR - Louver</p> <p>NACH - Machine NAR - Marble NAS - Masonry MATL - Material MAX - Maximum MB - Machine Bolt MEMB - Member MECH - Mechanical MEMB - Membrane MEZZ - Mezzanine MFR - Manufacturer MH - Manhole MIA - Malleable Iron MIN - Minimum MISC - Miscellaneous MK - Mark ML - Match Line MM - Millimeter MO - Masonry Opening MRR - Men's Restroom MS - Machine Screw MTD - Mounted MTR - Heater MULL - Mullion</p> <p>N - North NA - Not Applicable N/C - Not in Contract NO - Number NOM - Nominal NS - Non Shrink NTS - Not To Scale</p> <p>OA - Overall OC - On Center OD - Outside Diameter (Dim.) OF - Outside Face OH - Overhead OPNG - Opening OPP - Opposite OPPH - Opposite Hand OPS - Operations OVS - Oversized OZ - Ounce</p>	<p>PA - Public Address PC - Precast PCF - Pounds Per Cubic Foot PED - Pedestal PEMB - Pre-Engineered Metal Building PK - Picking PL - Plate PLAS - Plastic PLBG - Plumbing PLF - Pounds Per Lineal Foot PLYUD - Plywood PNL - Pane POL - Polished PP - Panel Point PR - Rail PRECAST - Precast PREPAB - Prefabricated PREP - Preparation PROJ - Projection PSF - Pounds Per Square Foot PSI - Pounds Per Square Inch PSTR - Prestressed PT - Pressure Treated, Paint, Point PTD - Painted PTN - Partition PVC - Polyvinyl Chloride PVC - Polyvinyl Chloride T&G - Tongue & Groove THK - Thick THRESH - Threshold TIT - Toilet TOC - Top of Concrete TOP - Top of Footing TOL - Tolerances TOS - Top of Steel TPG - Topping TS - Structural Tube TV - Television TYP - Typical</p> <p>UN - Unless Noted UNEX - Unexcavated UNF - Unfinished UNO - Unless Otherwise Noted UR - Urinal</p> <p>S - South SAN - Sanitary S&S - Self Adhering Sheet SBC - Standard Building Code SC - Solid Core SCHED - Schedule SECT - Section Secretary SECUR - Security SERV - Service SEW - Sewer SF - Square Feet SFGC - South Florida Building Code SGL - Single SHT - Sheet SHTH - Sheathing SHT - Shutter SJI - Steel Joist Institute SLL - Steel Line SLV - Sleeve SLO - Short Leg Out SLNT - Sealant SLV - Short Leg Vertical</p>
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GENERAL INFORMATION

COVER INDEX DRAWING INDEX AND SYMBOLS LEGEND (THIS SHEET)

ARCHITECTURAL

A01 PARTIAL SITE PLAN
A1 PARTIAL FLOOR PLAN
A61 SECTIONS, WINDOW TYPES AND DETAILS

STRUCTURAL

S01 GENERAL NOTES
S1 FOUNDATION PLAN
S2 STEEL PLAN & SECTIONS
S3 STEEL SECTIONS

INDEX OF DRAWINGS

MECHANICAL

M01 HVAC LEGEND, SCHEDULES, AND NOTES
M1 HVAC NEW WORK PLAN
M2 HVAC PIPING PLAN
M3 HVAC DETAILS
M31 HVAC CONTROLS

PLUMBING

P01 PLUMBING LEGEND, SCHEDULES, DETAILS & NOTES
P1 PLUMBING NEW WORK PLAN

FIRE PROTECTION

FP01 FIRE PROTECTION NEW WORK PLAN

ELECTRICAL

E10 LEGEND NOTES
E11 ELECTRICAL DETAILS
E12 EXISTING PANEL & NEW MECHANICAL EQUIPMENT SCHEDULES
E13 NEW PANEL SCHEDULES
E14 SINGLE LINE PARTIAL POWER RISERS
E15 LIGHTING CONTROLS AND FIXTURE SCHEDULE
E30 POWER PLAN & ELECTRICAL ROOMS
E31 POWER ENLARGED ELECTRICAL ROOMS
E40 FIRE ALARM & SOUND SYSTEM PLAN
E50 ROOF PLAN
E60 LIGHTING PLAN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE: DRAWN CHECKED DATE
CONSTRUCTION DOCUMENTS 11/30/18
BID DOCUMENTS 1/29/2019

CONSULTANTS:

ASBESTOS PROHIBITED (FBC, CHAPTER 423.806):
THE FEDERAL ASBESTOS HAZARD EMERGENCY RESPONSE ACT (ASHERA) 40 CFR PART 763, AS REVISED JULY 1, 1985, PROHIBITS THE USE OF ANY ASBESTOS CONTAINING MATERIALS IN ANY PUBLIC EDUCATION CONSTRUCTION PROJECT AND REQUIRES CERTIFICATION OF SAME BY THE ARCHITECT OF RECORD.

STATEMENT OF COMPLIANCE (SREF 43-8a2):
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE.

PROJECT:
**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:
**DRAWING INDEX - SYMBOLS
LEGEND & ABBREVIATIONS**

SHEET NUMBER:
INDEX

CODE INFORMATION:

APPLICABLE CODES:

FLORIDA BUILDING CODE BUILDING (FBC-B)	201
FLORIDA BUILDING CODE ACCESSIBILITY	201
FLORIDA BUILDING CODE MECHANICAL (FBC-M)	201
FLORIDA BUILDING CODE ENERGY CONSERVATION	201
FLORIDA BUILDING CODE FIRE, GAS (FBC-FG)	201
FLORIDA BUILDING CODE PLUMBING (FBC-P)	201
FLORIDA FIRE PREVENTION CODE (FFPC)	201
NATIONAL ELECTRICAL CODE (NEC)	201

EDITION:

201
201
201
201
201
201
201

GENERAL CODE CLASSIFICATION & REQUIREMENTS:

OCCUPANCY CLASSIFICATION: ASSEMBLY A-3 (FBC 303.4)
CONSTRUCTION TYPE: II B NON-COMBUSTIBLE / UNPROTECTED (FBC 602.2)

OCCUPANCY LOAD = 310 PEOPLE

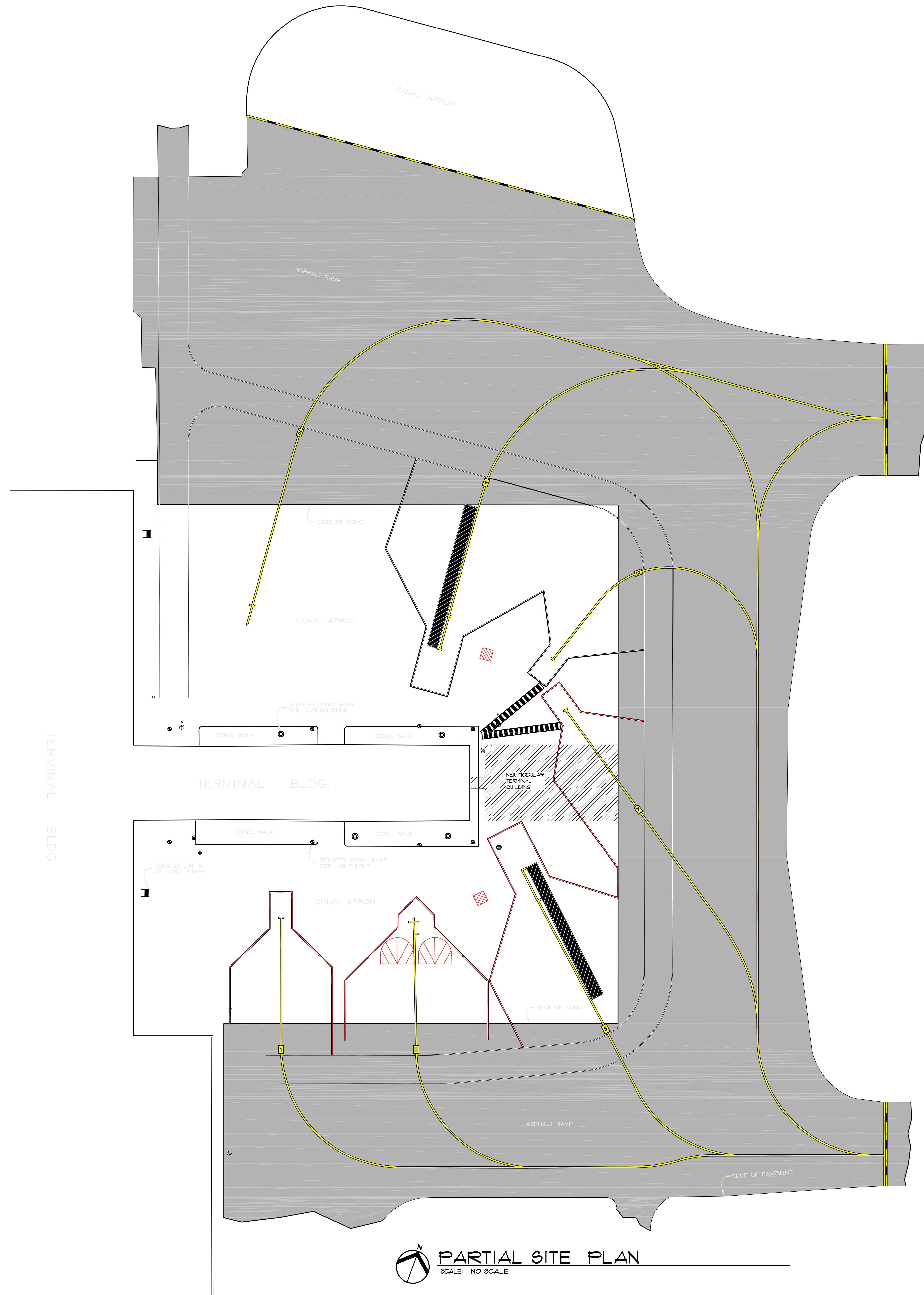
ASSEMBLY (A-3 - AIRPORT WAITING) = 15 SF/PERSON
5501 SF / 15 SF = 367

BUSINESS (B) = 100 SF/PERSON
212 SF / 100 SF = 3

TRAVEL DISTANCE

MAXIMUM TRAVEL DISTANCE = 250 FT.
ACTUAL TRAVEL DISTANCE = 195 FT.

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REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS			11/30/18
BID DOCUMENTS			1/28/2019

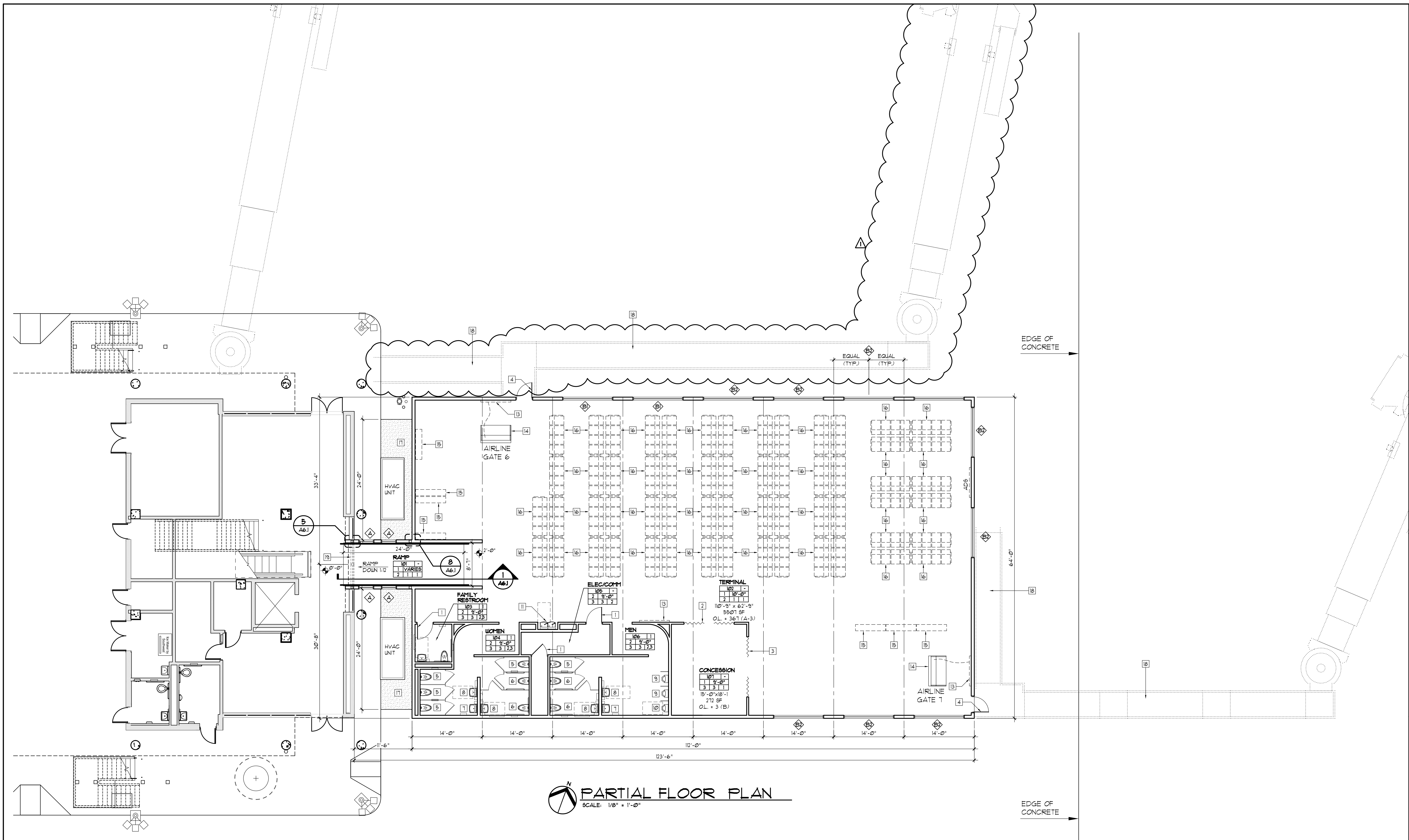
JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
 PANAMA CITY BEACH, FLORIDA
 PHONE: (850) 236-9832
 Commission Number: 18771

CONSULTANTS:

PROJECT:
**PANAMA CITY
 TERMINAL EXPANSION**
 PANAMA CITY, FLORIDA

SHEET TITLE:
PARTIAL SITE PLAN

SHEET NUMBER:
A0.1



FINISH SCHEDULE

- CEILING**
1. 600P ACUSTIC CEILING TILE SYSTEM
 2. PAINTED GUB
 3. EPOXY PAINTED GUB
 4. PAINTED EXPOSED STRUCTURE
 5. NOT USED
- FLOORS**
1. NOT USED
 2. CARPET - MATCH EXISTING
 3. CERAMIC TILE - MATCH EXISTING
 4. NOT USED
 5. NOT USED
 6. NOT USED
- BASE**
1. VINYL - MATCH EXISTING
 2. NOT USED
 3. CERAMIC TILE - MATCH EXISTING
 4. NOT USED
 5. NOT USED
- WALLS**
1. EGGSHELL ENAMEL PAINTED GUB
 2. EPOXY PAINTED GUB
 3. CERAMIC WALL TILE - MATCH EXISTING
 4. NOT USED
 5. NOT USED
- REMARKS**
1. CERAMIC WALL TILE SHALL TERMINATE AT 8'-0" AFF.

CONSTRUCTION KEYNOTES

1. 3'-0" W x 1'-0" H SOLID CORE DOOR
2. 10'-0" W x 1'-0" H SIDE FOLDING SECURITY CURTAIN. BASIS OF DESIGN: OVERHEAD DOOR COMPANY MODEL NO. 683. STRAIGHT PATTERN WITH CONCEALED CYLINDER-OPERATED HOOK LOCK ACCESSIBLE FROM INTERIOR AND EXTERIOR.
3. 12'-0" W x 1'-0" H SIDE FOLDING SECURITY CURTAIN. BASIS OF DESIGN: OVERHEAD DOOR COMPANY MODEL NO. 683. STRAIGHT PATTERN WITH CONCEALED CYLINDER-OPERATED HOOK LOCK ACCESSIBLE FROM INTERIOR AND EXTERIOR.
4. 3'-0" W x 1'-0" H HOLLOW METAL DOOR WITH NARROW LITE
5. WALL HUNG WATER CLOSET - ZURN Z5610 OR EQUAL. FLUSH VALVE - ZURN Z6000PFL-HET OR EQUAL
6. WALL HUNG WATER CLOSET - ADA HEIGHT - ZURN Z5610 OR EQUAL. FLUSH VALVE - ZURN Z6000PFL-HET OR EQUAL
7. LAVATORY - ZURN Z5341 OR EQUAL. FAUCET - ZURN Z82100
8. LAVATORY - ADA HEIGHT - ZURN Z5341 OR EQUAL. FAUCET - ZURN Z82100
9. URINAL - ZURN Z5130 OR EQUAL. FLUSH VALVE - ZURN Z6003PFL-ULF VALVE OR EQUAL
10. URINAL - ADA HEIGHT - ZURN Z5130 OR EQUAL. FLUSH VALVE - ZURN Z6003PFL-ULF VALVE OR EQUAL
11. BI-LEVEL DRINKING FOUNTAIN - ELKAY L25L888P OR EQUAL - CARRIER PROVIDED BY MODULAR MANUFACTURER
12. NOT USED
13. ARRIVAL DEPARTURE SCREEN - MATCH EXISTING (PROVIDE DATA AND POWER - SEE ELECTRICAL)
14. GATE POOLUM - MATCH EXISTING (PROVIDE DATA AND POWER - SEE ELECTRICAL)
15. POWER CHARGING STATION - BASIS OF DESIGN ASA POWER AND GO STATION. SEE ELECTRICAL FOR POWER
16. 4-SEAT CHAIR WITH POWER CHARGING - BASIS OF DESIGN ASA FLEX SEATING. SEE ELECTRICAL FOR POWER
17. EXTEND CONCRETE FOR INSTALLATION OF NEW HVAC EQUIPMENT.
18. RAMP(S) - NOT IN CONTRACT.
19. REMOVE CENTER TWO SECTIONS OF CURTAIN WALL FROM FLOOR TO BOTTOM OF STEEL BEAM. SAWCUT AND REMOVE CONCRETE SILL AND PORTION OF FLOOR AS REQUIRED FOR INSTALLATION OF NEW CONCRETE RAMP. SEE SECTIONS COORDINATE WITH OWNER TO PROVIDE CONSTRUCTION PROTECTION AT HOLDING AREAS DURING DEMOLITION AND CONSTRUCTION OF NEW RAMP.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
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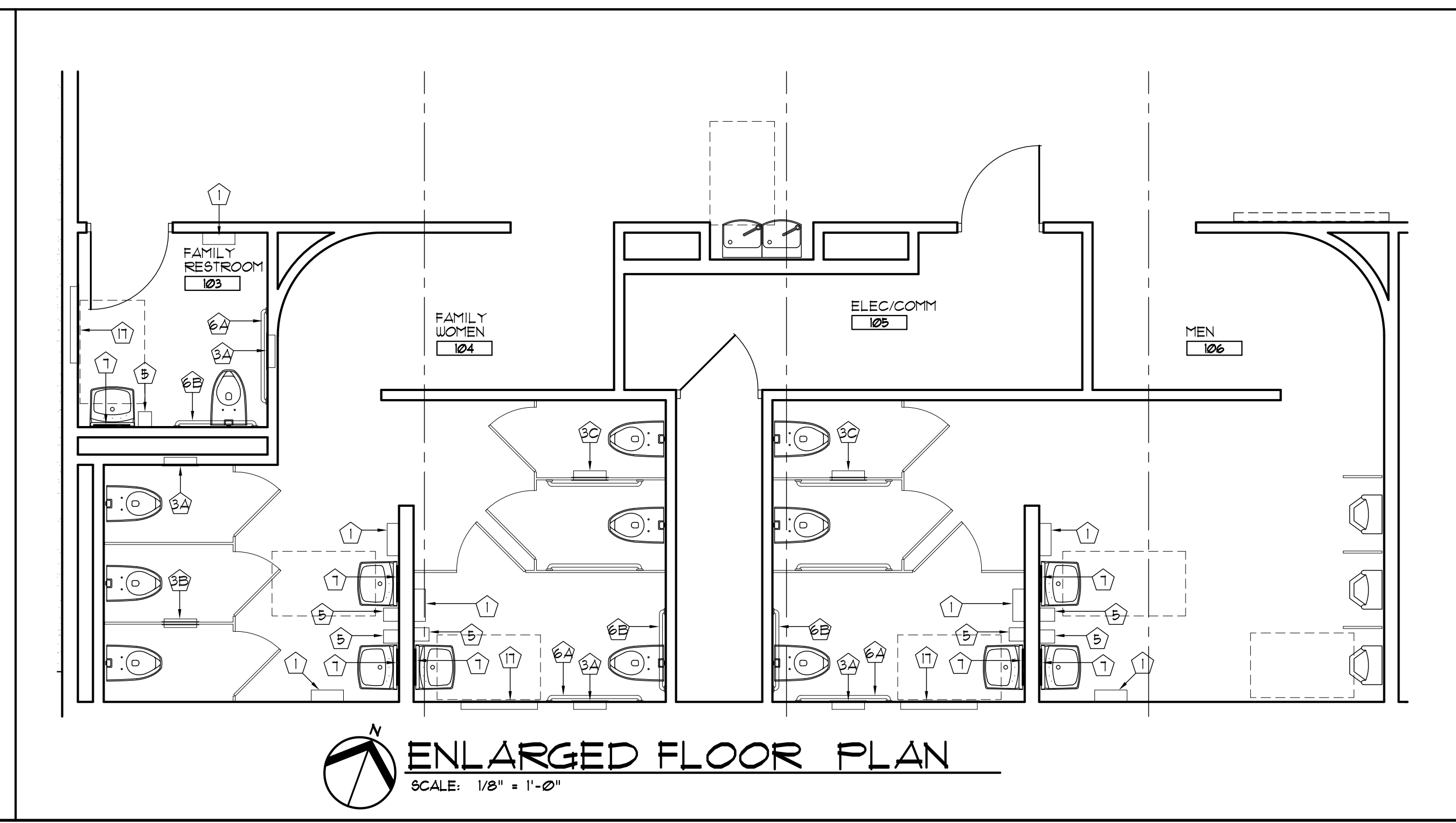
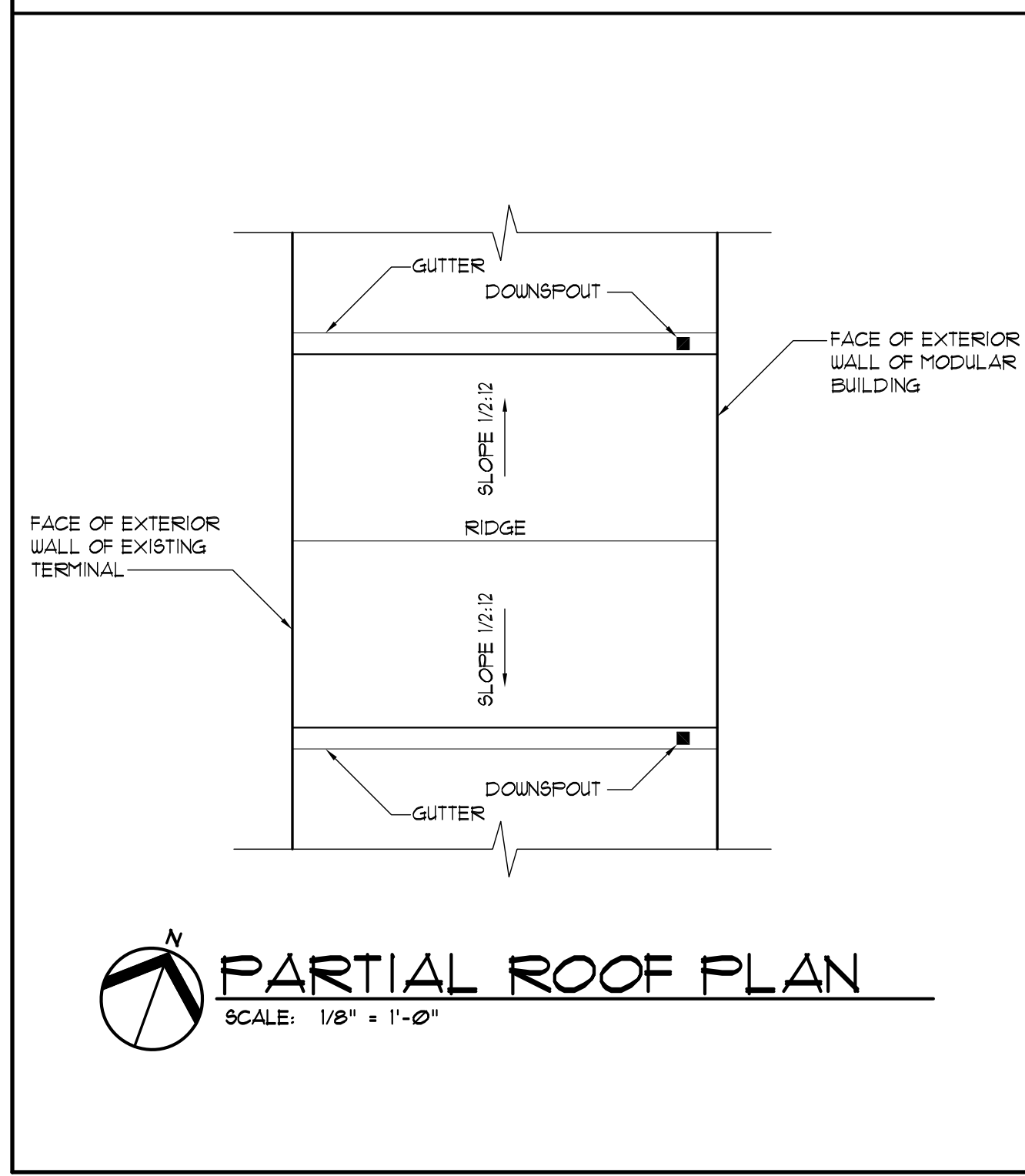
JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100 PANAMA CITY BEACH, FLORIDA PHONE: (850) 236-9832 Commission Number: 18771

CONSULTANTS:

PROJECT:
PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

SHEET TITLE:
FLOOR PLAN

SHEET NUMBER:
A11

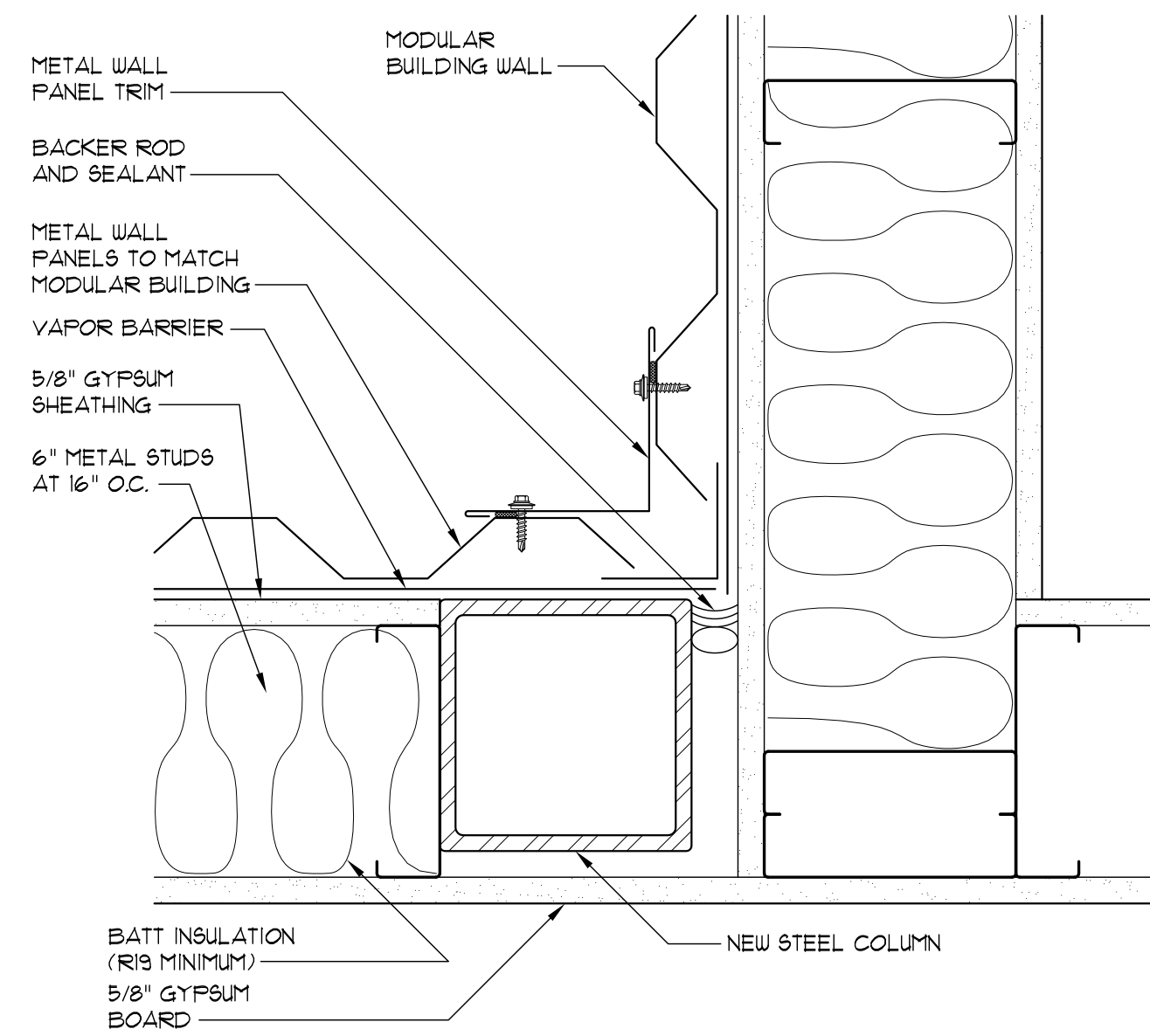


TOILET ACCESSORY SCHEDULE

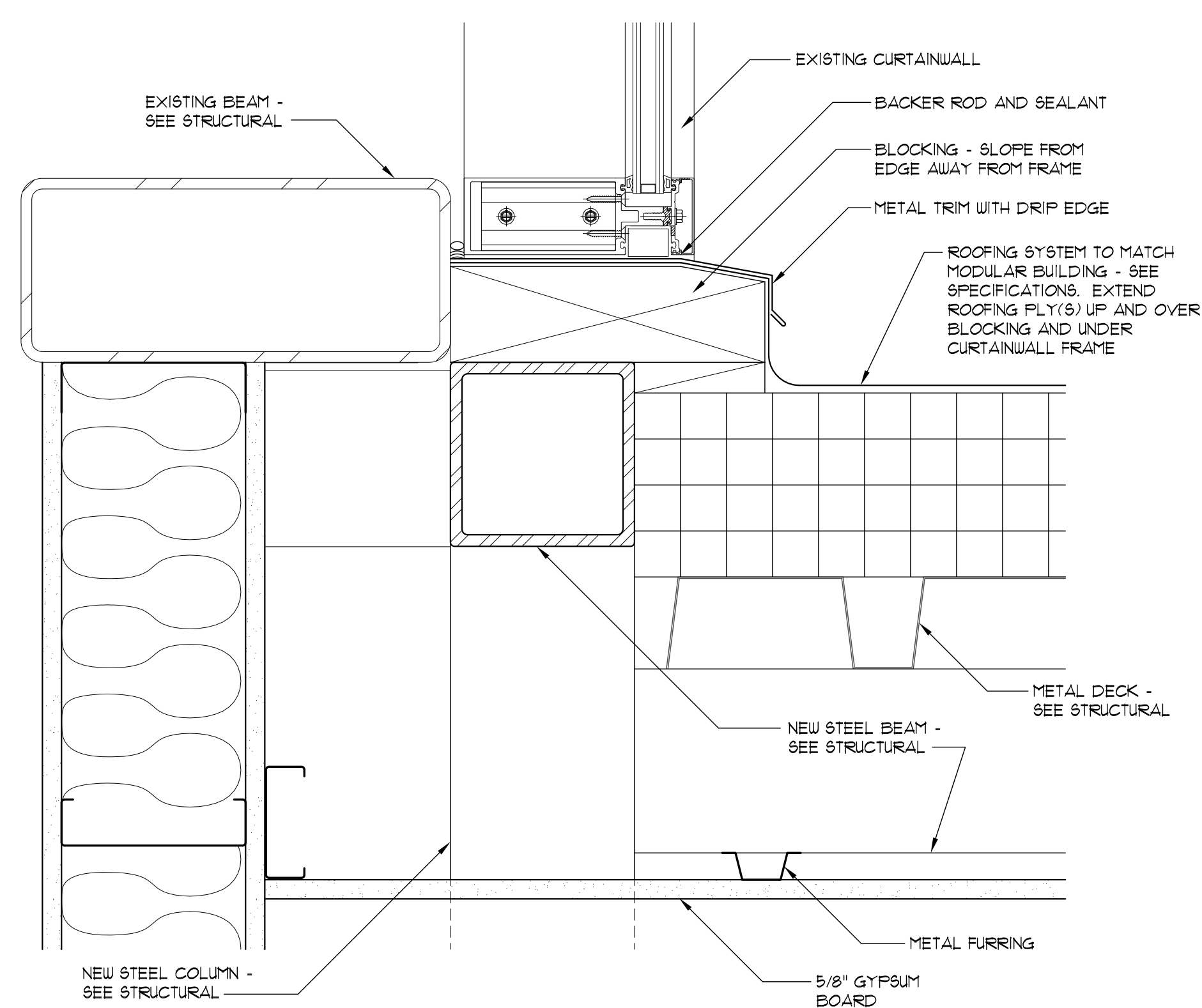
MARK	ITEM DESCRIPTION	MOUNTING HEIGHTS* (ABOVE FIN FLR)
1	SURFACE MTD. PAPER TOWEL DISPENSER	40" TO OUTLET
2	NOT USED	-
3A	RECESSED SEAT COVER/ TOILET PAPER DISPENSER	18" FROM CENTERLINE OF GRAB BAR TO BOTTOM OF UNIT
3B	PARTITION MOUNTED SEAT COVER/ TOILET PAPER DISPENSER	48" TO TOP OF SEAT COVER DISPENSER OPENING
3C	PARTITION MOUNTED SEAT COVER/ TOILET PAPER DISPENSER	43 7/8" TO TOP OF SEAT COVER DISPENSER OPENING
5	SURFACE MTD. SOAP DISPENSER	40" BOT. OF UNIT
6A	GRAB BAR - 3'-6" L x 1-1/2" DIA	34" (TOP OF BAR)
6B	GRAB BAR - 3'-0" L x 1-1/2" DIA	34" (TOP OF BAR)
7	FIXED MIRROR 18" W x 36" H	39" BOT. OF UNIT
11	DIAPER-CHANGING STATION	40" TOP OF SHELF

GENERAL NOTES:
ALL ACCESSORIES SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
PROVIDE UNDER-LAVATORY PIPE GUARDS, PER ADA STANDARDS, AT ALL LAVATORIES.

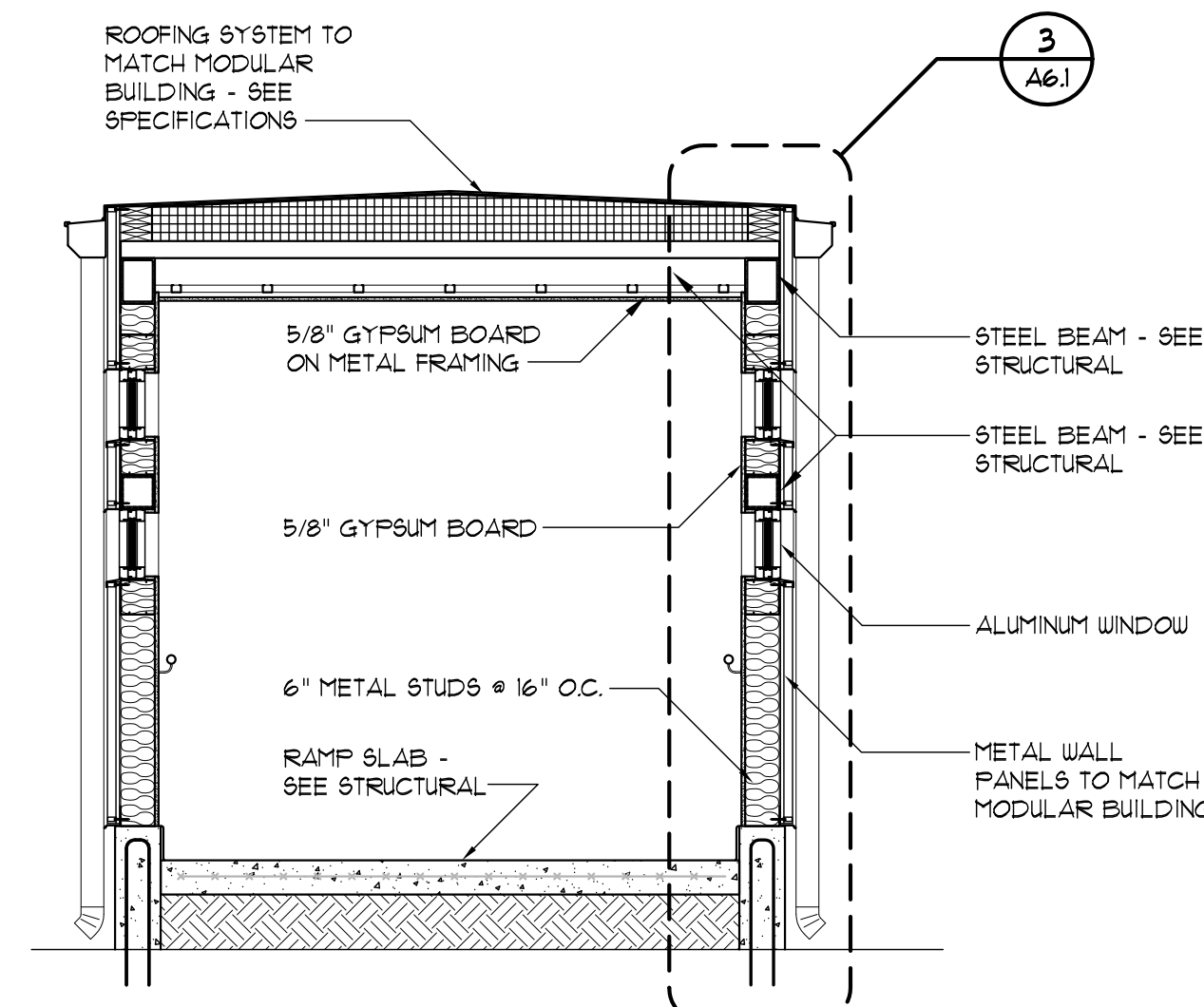
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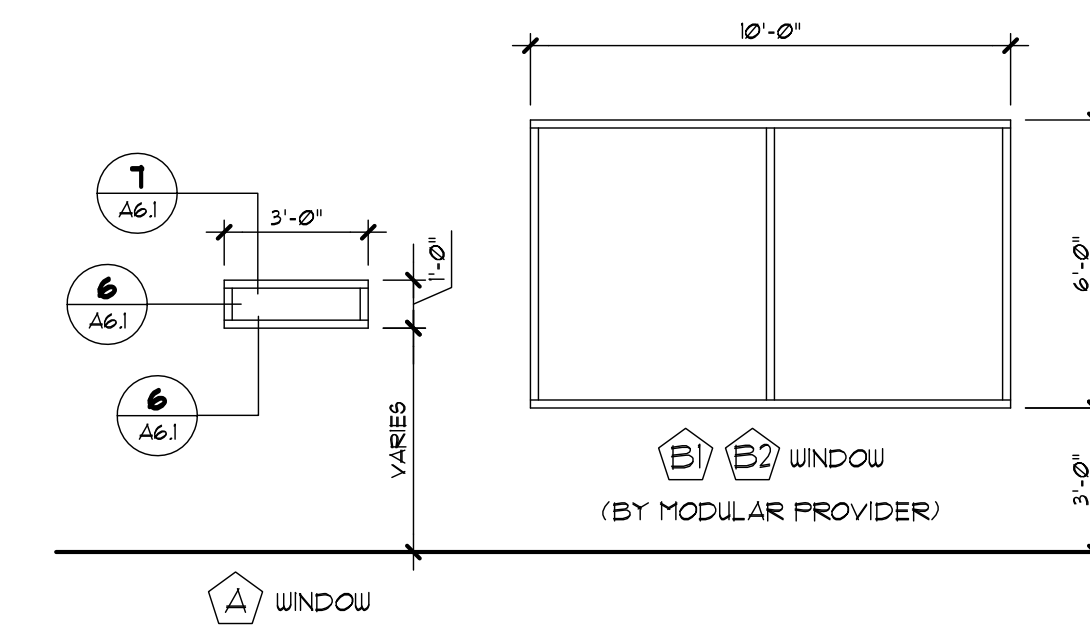
8 ENLARGED DETAIL
SCALE: 3" = 1'-0"



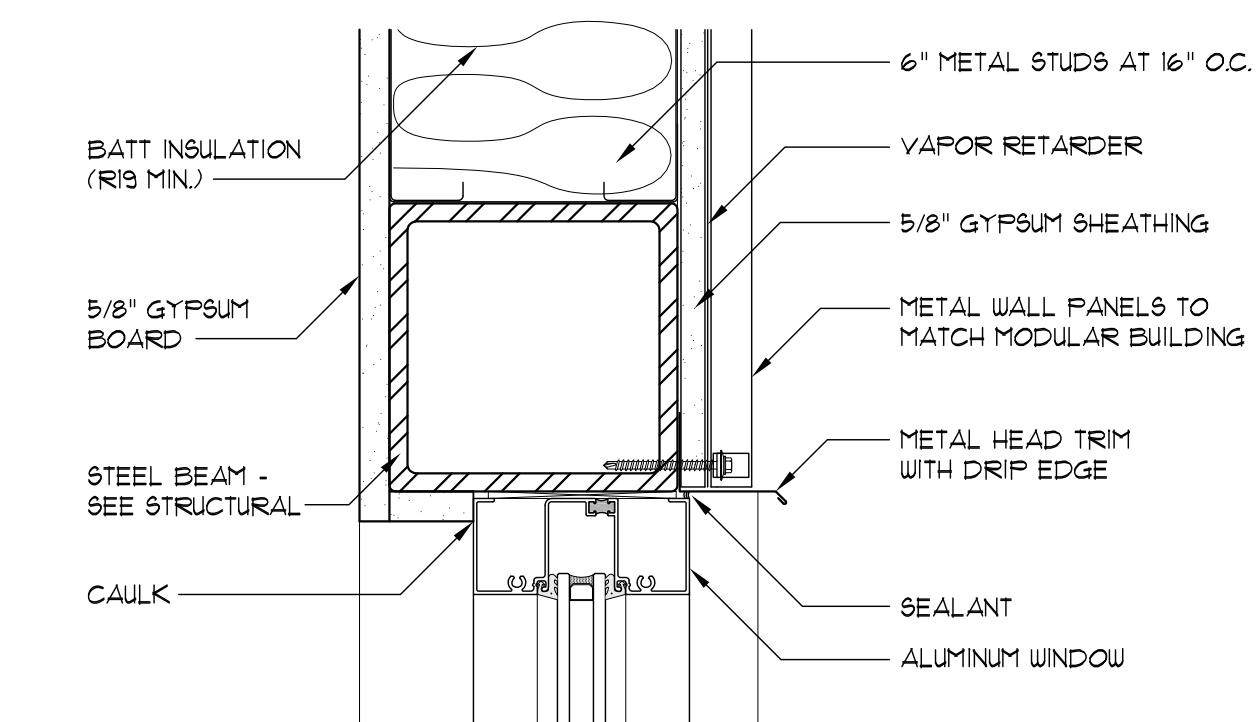
5 SECTION
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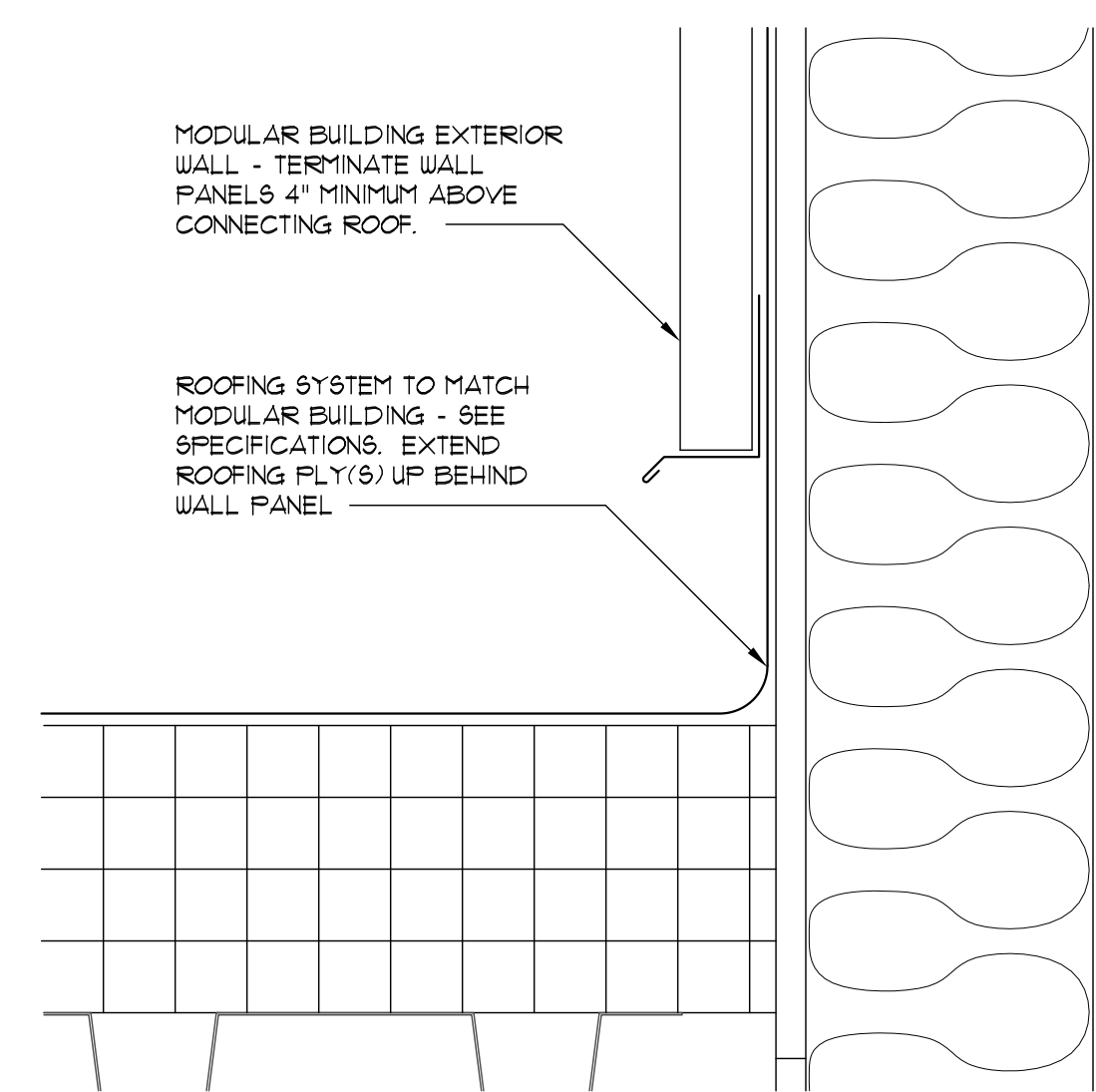
2 SECTION
SCALE: 3/8" = 1'-0"



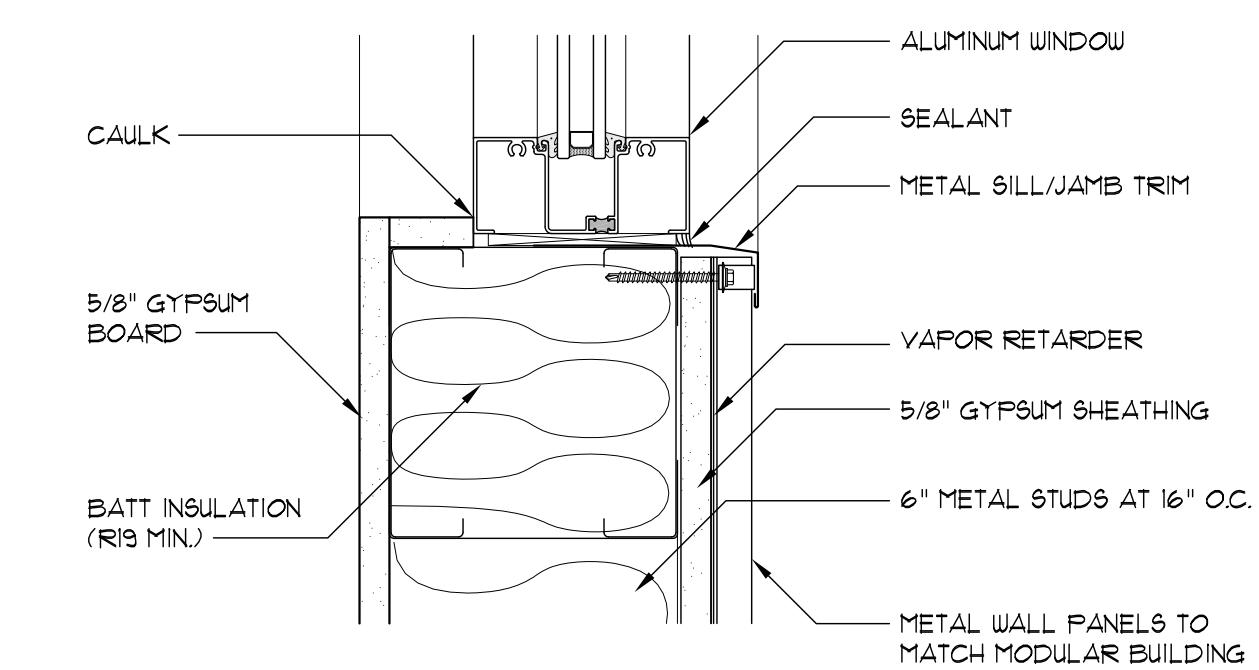
ALUM. FRAME ELEV.
SCALE: 1/4" = 1'-0"



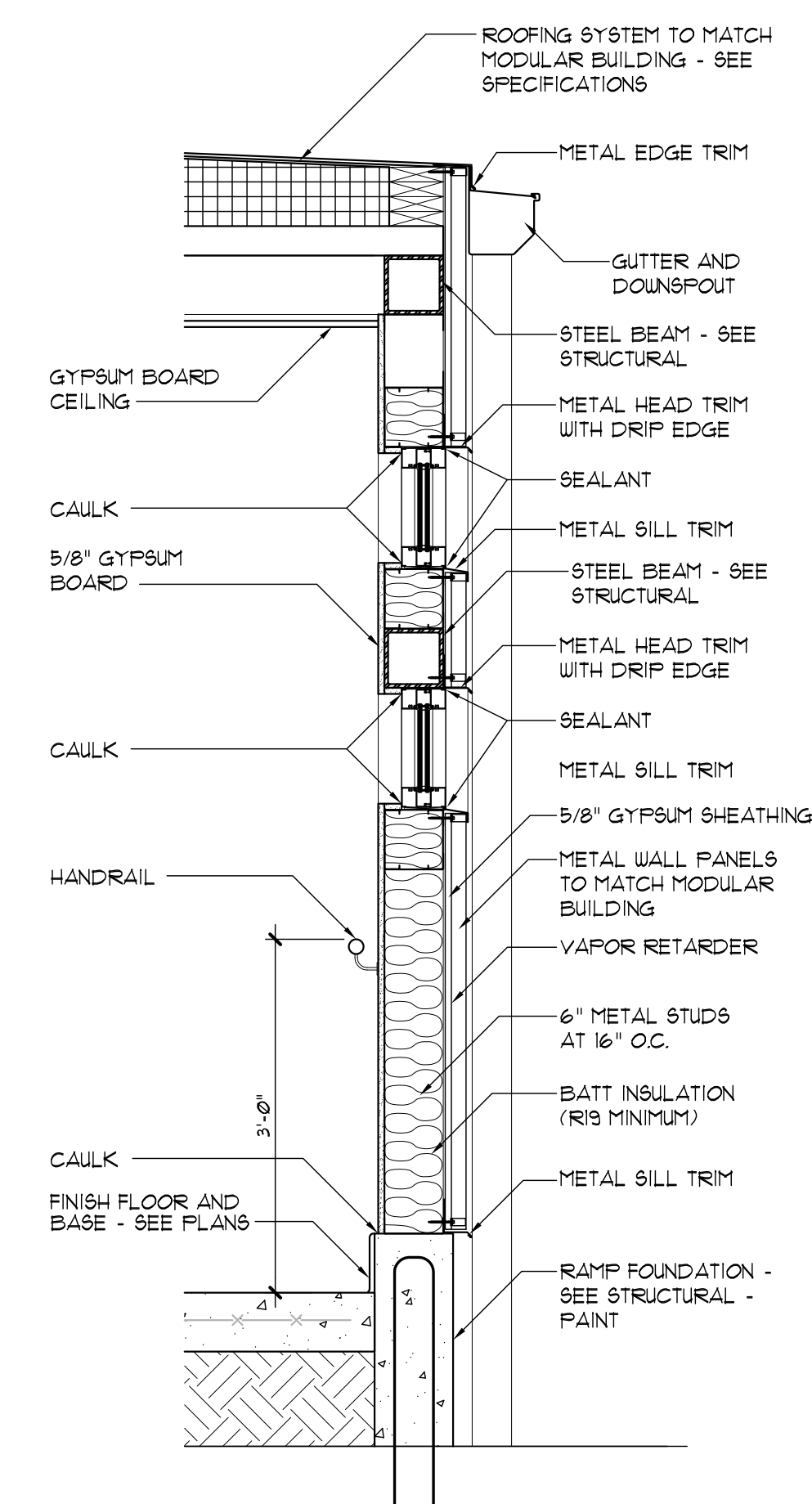
7 HEAD DETAIL
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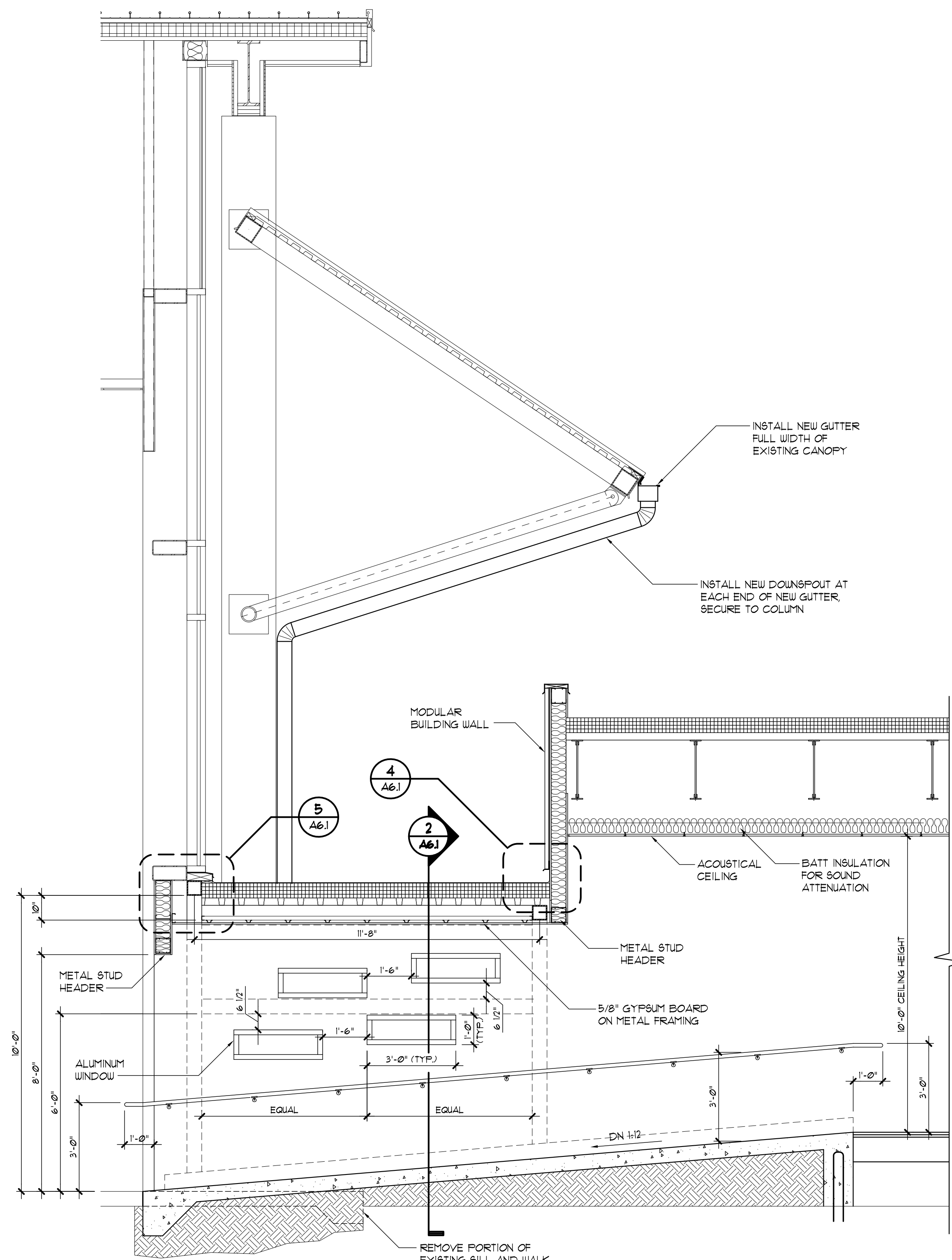
4 SECTION
SCALE: 3" = 1'-0"



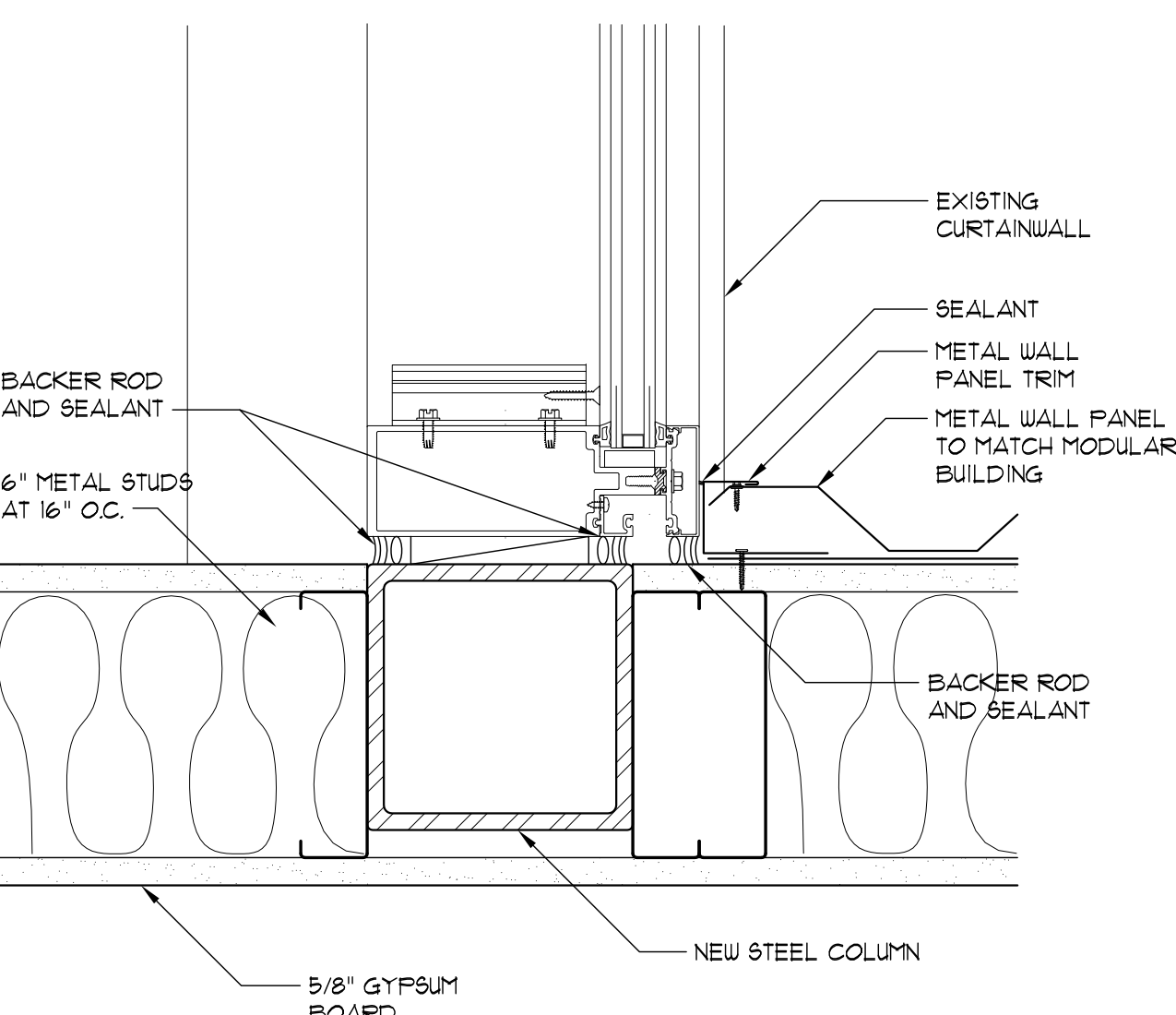
6 SILL/JAMB DETAIL
SCALE: 3" = 1'-0"



3 SECTION
SCALE: 1 1/2" = 1'-0"



1 SECTION
SCALE: 3/8" = 1'-0"



5 ENLARGED DETAIL
SCALE: 3" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:

CONSTRUCTION DOCUMENTS	DRAWN	CHECKED	DATE
BID DOCUMENTS			1/29/2018

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100 PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

CONSULTANTS:

PROJECT:

PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

BUILDING AND WALL SECTIONS

SHEET NUMBER:

A6.1

STRUCTURAL NOTES:

1. GENERAL
 - 1.1. COORDINATE ALL INFORMATION CONTAINED IN THIS STRUCTURAL SET WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES. CONTACT BTK ENGINEERING IF CONFLICT IS FOUND.
 - 1.2. SEE ARCHITECTURAL DRAWINGS FOR FINISHES.
 - 1.3. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
 - 1.4. PROJECT IS DESIGNED AS A COMPLETE SYSTEM. CONTRACTOR SHALL BRACE THE STRUCTURE THROUGH OUT CONSTRUCTION (INCLUDING, WALLS, STEEL, JOIST, ETC.) UNTIL COMPLETED PER THIS SET OF STRUCTURAL DRAWINGS.
 - 1.5. SHOP DRAWINGS REQUIRED:
 - 1.5.1. CONCRETE REINFORCEMENT/EMBEDS FABRICATION DRAWINGS
 - 1.5.2. STRUCTURAL STEEL - FABRICATION/ERECTION DRAWINGS
 - 1.5.3. LIGHT GAUGE METAL STUD FRAMING (EXTERIOR) - ENGINEERED
 - 1.5.4. ALUMINUM STOREFRONT - ENGINEERED
 - 1.6. SUBMITTALS REQUIRED:
 - 1.6.3. SOILS COMPACTION REPORTS.
 - 1.6.4. CONCRETE MIX DESIGN.
 - 1.6.5. CONCRETE TEST REPORTS.
 - 1.6.6. METAL DECK - PRODUCT DATA
 - 1.7. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
 - 1.8. SITE AND CONSTRUCTION SHALL COMPLY WITH OSHA OR EM385 AT ALL TIMES.
 - 1.9. SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY, AND SAFE MANNER AT ALL TIMES.

2. SOILS
 - 2.1. CONTRACTOR SHALL FOLLOW GEOTECH REPORT IN ITS ENTIRETY.
 - 2.2. CONTRACTOR SHALL VERIFY SOIL IS FREE OF MUCK, CLAY, SILT, ORGANICS, OR OTHER UNSUITABLE MATERIALS.
 - 2.3. CONTRACTOR SHALL REMOVE ALL LAYERS OF SOIL THAT CONTAIN ORGANICS.
 - 2.4. CONTRACTOR SHALL VERIFY FLOOD ZONES AND WATER TABLES AND ASSURE FINISH FLOOR IS AT THE REQUIRED ELEVATION.
 - 2.5. CONTRACTOR SHALL VERIFY AND COMPLY WITH ALL BUILDING SETBACKS AND EASEMENTS.
 - 2.6. SOIL SHALL BE CAPABLE OF SUPPORTING AND ALLOWABLE BEARING PRESSURE OF 2000 PSF.
 - 2.7. CONTRACTOR SHALL VERIFY ALL SOILS ARE COMPACTED TO 98% MAXIMUM DENSITY (MODIFIED PROCTOR).
 - 2.8. ALL SOILS UNDER SLABS SHALL BE TREATED FOR TERMITES.
 - 2.9. STRUCTURAL BACKFILL OR FILL SOILS
 - 2.9.1. CONTRACTOR SHALL PROVIDE BACKFILL OR FILL REQUIRED FOR SITE DEVELOPMENT SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS WHEN COMPACTED BY THE USE OF A VIBRATORY DRUM ROLLER. THE LIFT THICKNESS SHOULD BE REDUCED TO 8 INCHES IF THE ROLLER OPERATES IN THE STATIC MODE OR IF TRACK-MOUNTED COMPACTION EQUIPMENT IS USED. IF HAND-HELD COMPACTION EQUIPMENT IS USED, THE LIFT THICKNESS SHOULD BE FURTHER REDUCED TO 6 INCHES. STRUCTURAL FILL IS DEFINED AS A NON-PLASTIC, INORGANIC, GRANULAR SOIL HAVING LESS THAN 10 PERCENT MATERIAL PASSING THE NO. 200 MESH SIEVE AND CONTAINING LESS THAN 4 PERCENT ORGANIC MATERIAL. TYPICALLY, THE MATERIAL SHOULD EXHIBIT MOISTURE CONTENTS WITHIN +2 PERCENT OF THE MODIFIED PROCTOR OPTIMUM MOISTURE CONTENT (ASTM D 1557) DURING THE COMPACTION OPERATIONS. COMPACTION SHOULD CONTINUE UNTIL DENSITIES OF AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) HAVE BEEN ACHIEVED WITHIN EACH LIFT OF THE COMPACTED STRUCTURAL FILL.

3. FOUNDATION
 - 3.1. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE BREAK STRENGTH AFTER 28 DAYS.
 - 3.1.1. WALL FOOTINGS 4500 PSI 500 PSI FLEXURAL
 - 3.1.2. SLAB 4500 PSI 500 PSI FLEXURAL
 - 3.1.3. PIERS 3000 PSI
 - 3.2. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO BTK ENGINEERING FOR APPROVAL PRIOR TO PROCUREMENT. ALLOW ONE WEEK FOR REVIEW.
 - 3.3. CONCRETE SHALL HAVE FIELD CYLINDERS TAKEN AND TESTED IN ACCORDANCE WITH ACI 318.
 - 3.4. CONCRETE SLUMP SHALL BE BETWEEN 3 AND 6 INCHES AT THE TIME OF PLACEMENT.
 - 3.5. ALL REINFORCING BARS SHALL BE GRADE 60, ASTM#16 AND LAP 30 BAR DIAMETERS.
 - 3.6. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185 AND LAP A MINIMUM OF 6".
 - 3.7. WELDED WIRE REINFORCEMENT SHALL BE PLACED IN THE UPPER ONE HALF OF THE SLAB ON SUPPORTS (NOT PULLED INTO PLACE.)
 - 3.8. PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
 - 3.8.1. PORTLAND CEMENT: ASTM C 150, TYPE III, **NO FLY ASH PERMITTED**
 - 3.8.2. MINIMUM COMPRESSIVE STRENGTH: 4500 AND 3000 PSI AT 28 DAYS.
 - 3.8.3. MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.51.
 - 3.8.4. SLUMP LIMIT: 3" TO 6".
 - 3.8.5. NORMAL-WEIGHT AGGREGATES: ASTM C 33, CLASS 3M COARSE AGGREGATE OR BETTER, GRADED.
 - 3.8.6. MAXIMUM COARSE-AGGREGATE SIZE: 3/4" MAXIMUM UNLESS NOTED.
 - 3.8.7. FINE AGGREGATE: FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
 - 3.8.8. AIR CONTENT: 5 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 3/4-INCH (38-MM) NOMINAL MAXIMUM AGGREGATE SIZE.
 - 3.8.9. NO CALCIUM CHLORIDE PERMITTED.
 - 3.8.10. HIGH EARLY SET ADMIXTURES ARE ENCOURAGED IF THEY ARE NON CORROSIVE TO THE REINFORCEMENT.
 - 3.9. FINISH TEXTURE SHALL BE VERIFIED WITH ARCHITECT.
 - 3.10. CONCRETE SURFACE SHALL BE UNIFORM AND STRAIGHT AND LEVEL TO WITHIN 1/8" IN A TEN FOOT STRAIGHT EDGE.

4. STRUCTURAL STEEL
 - 4.1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED ACCORDING TO AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ASD, LATEST EDITION.
 - 4.2. STEEL FABRICATOR'S SPECIALTY ENGINEER SHALL DESIGN ANY CONNECTIONS NOT DETAILED IN THESE DOCUMENTS. THE SPECIALTY ENGINEER SHALL BE REGISTERED IN THE PROJECT STATE. CONNECTION DESIGN CALCULATIONS AND STEEL DETAILER'S SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC MANUAL "DETAILING FOR STEEL CONSTRUCTION", LATEST EDITION. STEEL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, 50 KSI. STRUCTURAL STEEL SHAPES, PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 KSI, UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554-07a GRADE 36 UNLESS NOTED OTHERWISE.
 - 4.3. BOLTS SHALL CONFORM TO ASTM A325, TYPE 3 (CORROSION RESISTANCE), 3/4-INCH DIAMETER MINIMUM, UNLESS NOTED OTHERWISE. BOLTS IN BEARING CONNECTIONS SHALL BE DESIGNATED TYPE N, TENSIONED, SNUG-TIGHT AS DEFINED BY AISC. ALL OTHER BOLTS SHALL BE PRE-TENSIONED.
 - 4.5. USE PRE-QUALIFIED WELDED JOINTS AS PER AISC, AND AWS D1.1 "STRUCTURAL WELDING CODE." USE ONLY CERTIFIED WELDERS; ALL ELECTRODES SHALL CONFORM TO AWS AS GRADE E70XX, BARE ELECTRODE AND GRANULAR FLUX SHALL CONFORM TO AWS A5, F70 AWS FLUX CLASSIFICATION. MINIMUM WELD SIZE TO BE 3/16" FILLET WELD, U.N.O.
 - 4.6. CUTS, BOLTS, COPING, ETC. REQUIRED FOR WORK OR OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL ONLY PERMITTED ON AN INDIVIDUAL, REVIEWED BASES.
 - 4.7. SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED, WHERE POSSIBLE.
 - 4.8. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND DRAWINGS RELATED TO OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC. WITH THE WORK OF OTHER TRADES. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE FRAMING AROUND OPENINGS IN ROOF AS INDICATED IN THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
 - 4.9. STRUCTURAL STEEL CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATION WITH THE TOP OF CONCRETE ELEVATION. IN CASE OF CONFLICT, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR MORE STRINGENT REQUIREMENTS.
 - 4.10. STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

EAVE HEIGHT	12'
ROOF SLOPE	1:12
DESIGN LOADS	
COLLATERAL/GRAVITY	10 PSF
ROOF LIVE LOAD (REDUCIBLE)	20 PSF
WIND LOAD	SEE TABLE
FLOOR LIVE LOAD	150 PSF
EXTERIOR RAMPS	100 PSF AND 300 LB CONC
HANDRAILS	200 LB CONC IN ANY DIRECTION
	50 LB/FT IN ANY DIRECTION
	250 LB CONC. IN ANY DIRECTION

TABLE OF CONTENTS

STRUCTURAL NOTES	S0.1
FOUNDATION PLAN	S1.1
STEEL FRAMING PLAN	S2.1
STRUCTURAL SECTIONS AND DETAILS	S3.1

APPLICABLE CODES

Florida Building Code, Building (FBC-B)	2017
Minimum Design Loads For Building and Other Structures	ASCE 7-10

Design Criteria		Building Specifications	
Design Velocity (Vult 3 sec gust)	143.00 mph	Enclosed Building Depth	9.75 ft
Building Category	III	Enclosed Building Width	11.5 ft
Risk Category	III	Eave Height	12 ft
Wind Exposure	C	Mean Roof Height	15 ft
Enclosure Classification	Enclosed	Roof Slope	1 on 12
Internal Pressure Coefficient	+0.18	End Zone Width	3 ft
Base Pressure	37.77 psf	Velocity ASD (3sec Gust)	111 mph

Component and Cladding Pressures (Effective Wind Area $\le 10 \text{ sq ft}$)						MRF 3 Design Pressures			
Zone	GCP	GCPs	q _z	(GCP+GC)	(q _z -GCP)	Building Section	Zone	Inward psf	Outward psf
1+	0.3	0.18	37.77	0.48	18.13	Wall (Windward)	1	18.08	-19.64
1-	-1	-0.18	37.77	-1.18	-44.57	Roof (Windward)	2	0.00	-27.12
2+	0.3	0.18	37.77	0.48	18.13	Roof (Leeward)	3	0.00	-17.15
2-	-1.8	-0.18	37.77	-1.98	-74.79	Wall (Leeward)	4	0.00	-19.64
2b	-1.7	0	37.77	-1.7	-64.21	Gable (Windward)	5	18.08	0.00
3+	0.3	0.18	37.77	0.48	18.13	Gable (Leeward)	6	0.00	-14.65
3-	-2.8	-0.18	37.77	-2.98	-112.56	Wall (Windward)	1E	24.63	-20.57
3b	-2.8	0	37.77	-2.8	-105.76	Roof (Windward)	2E	0.00	-38.97
4+	1	0.18	37.77	1.18	44.57	Roof (Leeward)	3E	0.00	-22.13
4-	-1.1	-0.18	37.77	-1.28	-48.35	Wall (Leeward)	4E	0.00	-20.57
5+	1	0.18	37.77	1.18	44.57	Gable (Windward)	5E	24.63	0.00
5-	-1.4	-0.18	37.77	-1.58	-59.68	Gable (Leeward)	6E	0.00	-19.02

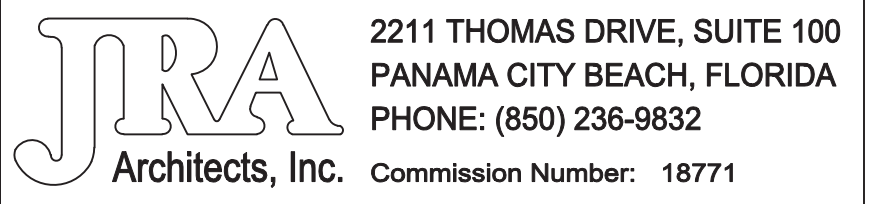
TABULATED VALUES ARE FOR ULTIMATE DESIGN PRESSURES.

OTHER NON CONTROLLING DESIGN LOADS			
Snow Load			
Ground Snow Load			0 psf
Seismic			
Risk category,			III
Seismic importance factor, I _s ,			1
Mapped spectral response acceleration parameters, S _s and S ₁ ,			
S _s	0.078	S ₁	0.05
Site class,			
			D
Design spectral response acceleration parameters, S _{DS} and S _{D1} ,			
S _{DS}	0.083	S _{D1}	0.081
Seismic design category,			
Basic seismic force-resisting system(s),			
Design base shear(s),			
Seismic response coefficient(s), C _s ,			
Response modification coefficient(s), R,			
Analysis procedure used,			
	ASCE7	Section 1.4	

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

PHASE: DRAWN CHECKED DATE
 CONSTRUCTION DOCUMENTS 11/30/18
 BID DOCUMENTS 1/29/2019



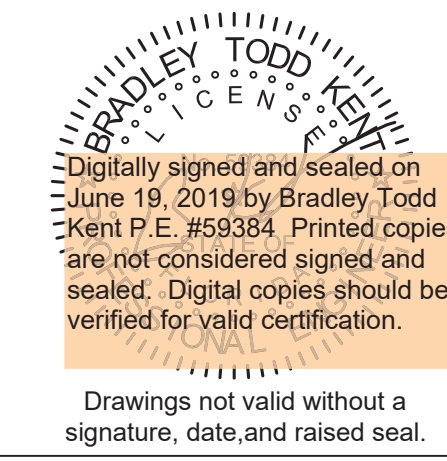
CONSULTANTS:
STRUCTURAL ENGINEER
BTB ENGINEERING SERVICES, INC.
 1101 BRICKYARD ROAD, CHIPLEY, FL 32428
 ENGINEERING BUSINESS #9613 / BRADLEY T. KENT P.E. FLORIDA
 REGISTRATION #59334 / PHONE: (850) 676-4140

PROJECT: EXODUS 4:11

PANAMA CITY
TERMINAL EXPANSION
 PANAMA CITY, FLORIDA

SHEET TITLE:
 STRUCTURAL NOTES

SHEET NUMBER:



Drawings not valid without a signature, date and raised seal.

S0.1

771-S1-2018-086-STRUCTURAL.S.DWG

RAMP SEE ARCH. DWGS
TO BE ENGINEERED BY DELEGATED
SPECIALITY ENGINEER.

TURNSTILE BY OTHERS

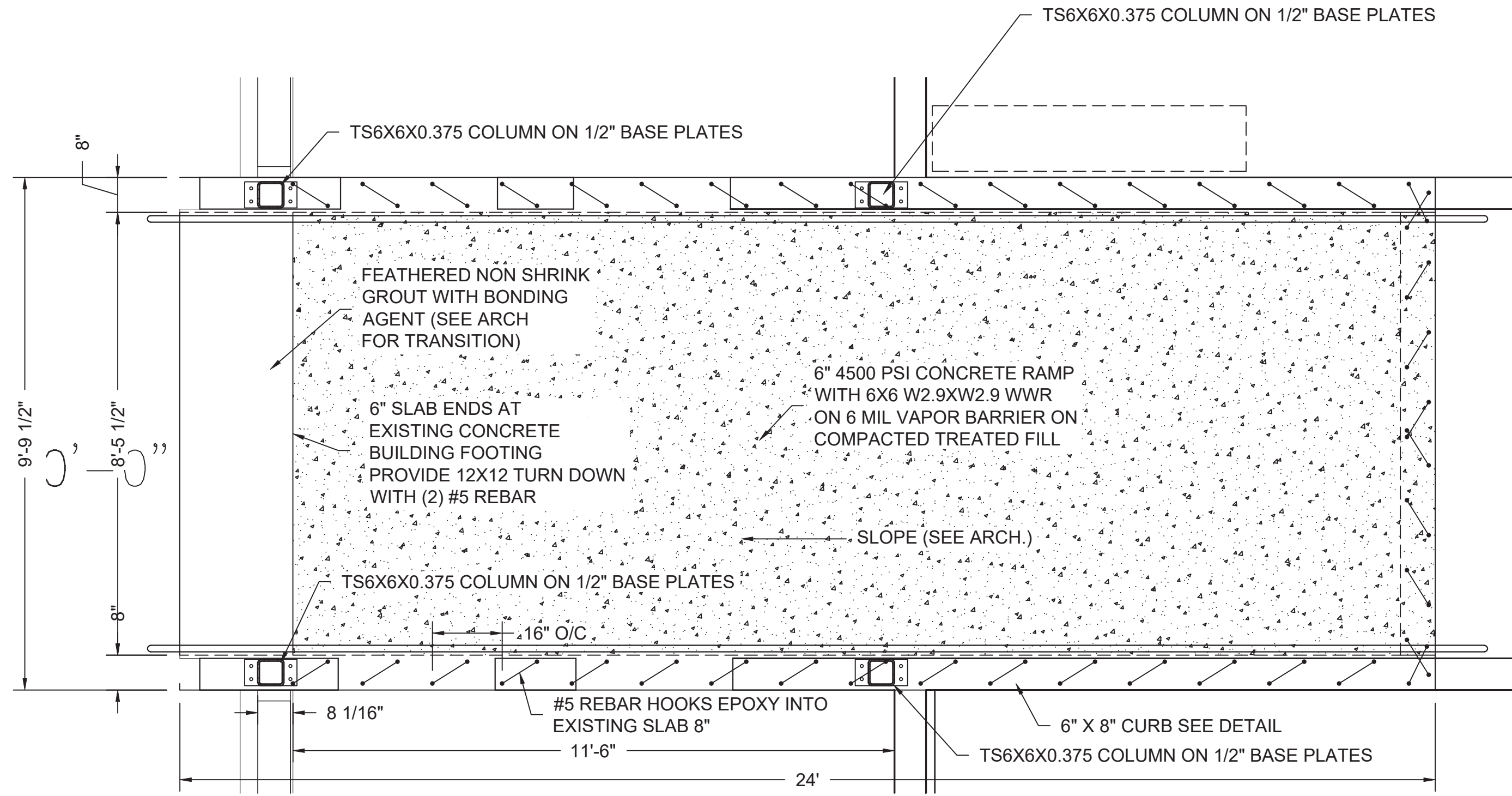
SEE FD-2/S1.1

RAMP SEE ARCH. DWGS
TO BE ENGINEERED BY DELEGATED
SPECIALITY ENGINEER.

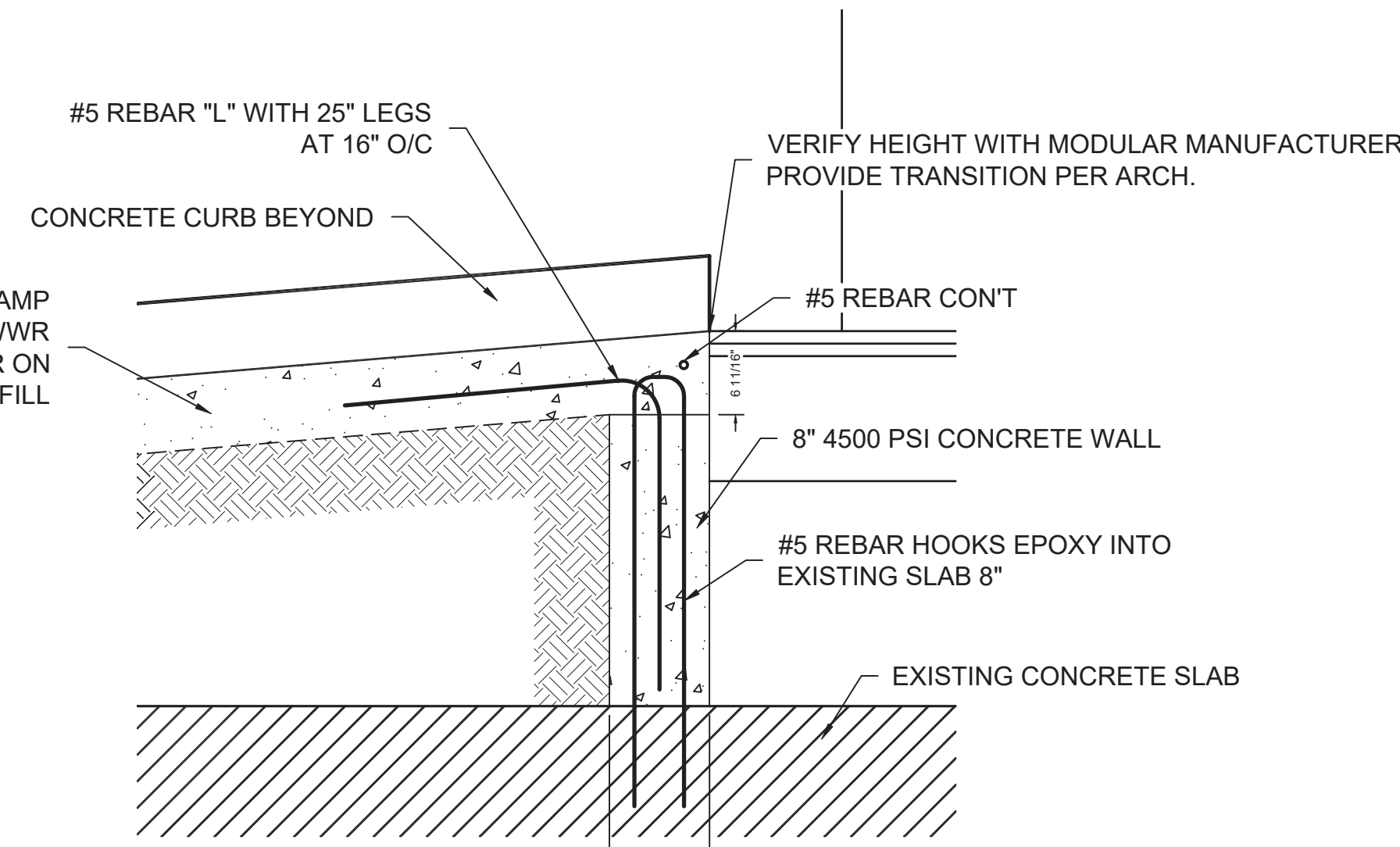
TURNSTILE BY OTHERS

SONOTUBE FOUNDATION PIERS
16" DIA. 3000 PSI CONCRETE
(2) #5 HOOKS EPOXY INTO EXISTING
SLAB 8" MINIMUM.
(SHOWN AT 5' O/C ALONG FRAME RAILS)
VERIFY HEIGHT AND SPACING
WITH MODULAR MANUFACTURER.
VERIFY MARRIAGE WALL SUPPORT
REQUIREMENTS AND HOLD DOWNS
WITH MODULAR MANUFACTURER.
SEE TYPICAL DETAIL BELOW.

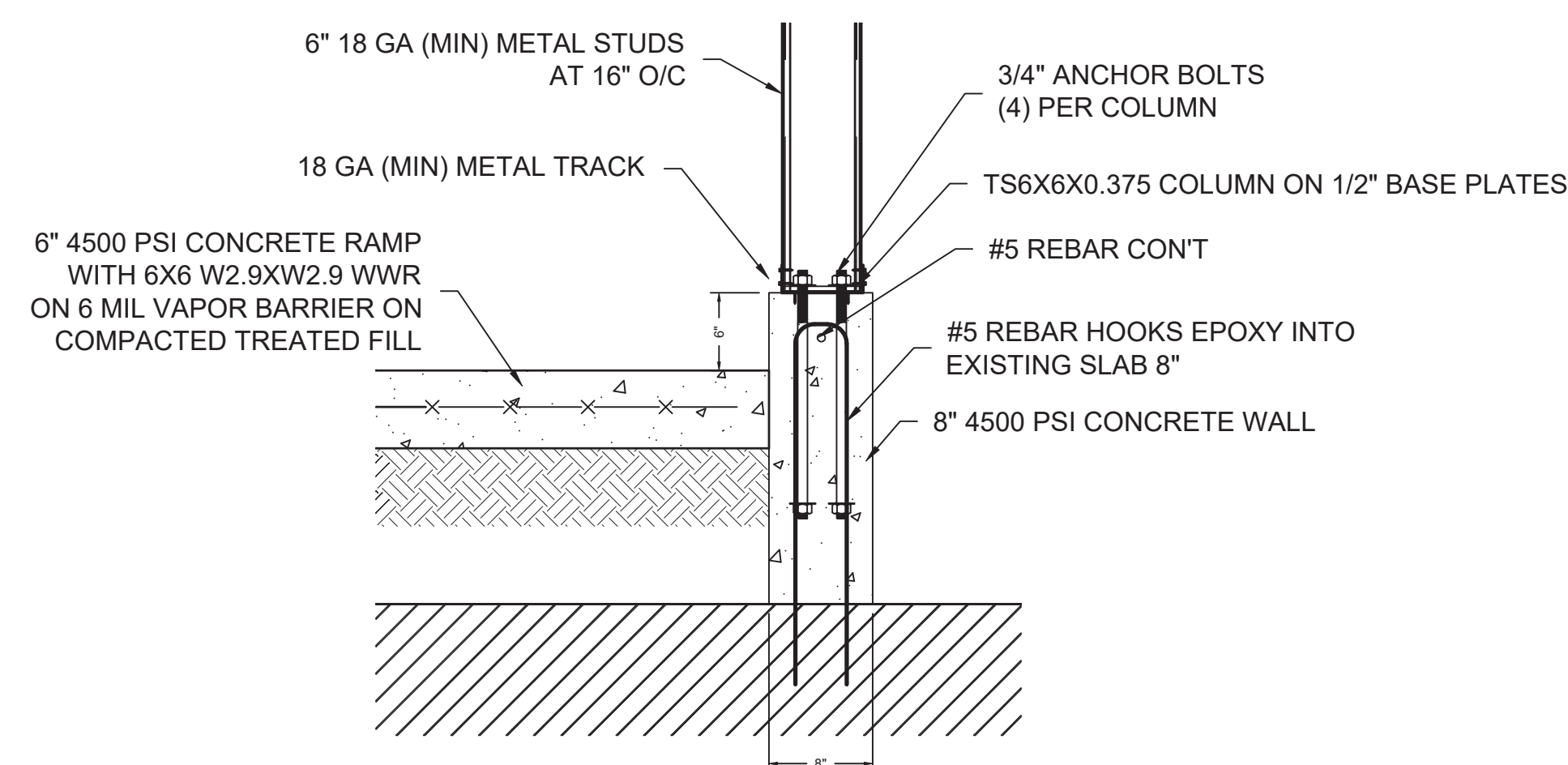
(F1-1) FOUNDATION PLAN (OVERALL)
S1.1 SCALE: 1/8" = 1'-0"



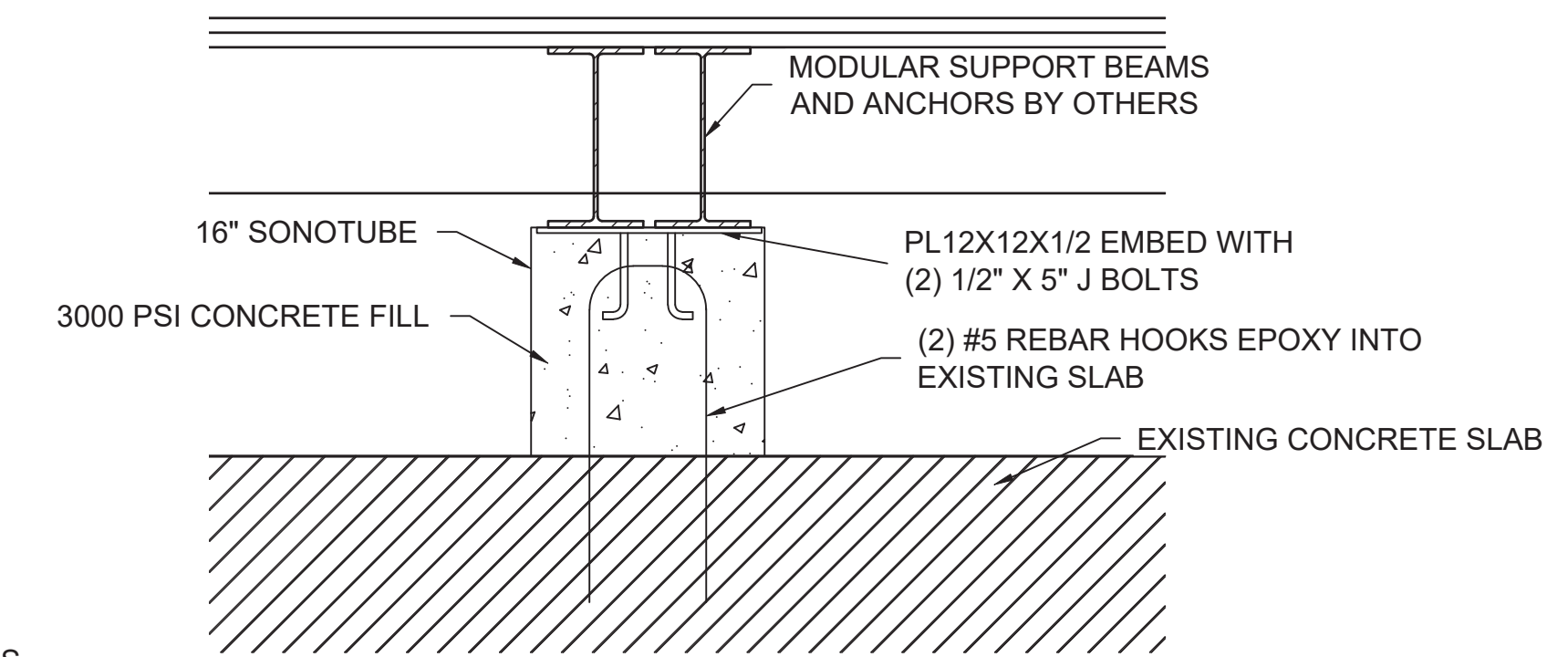
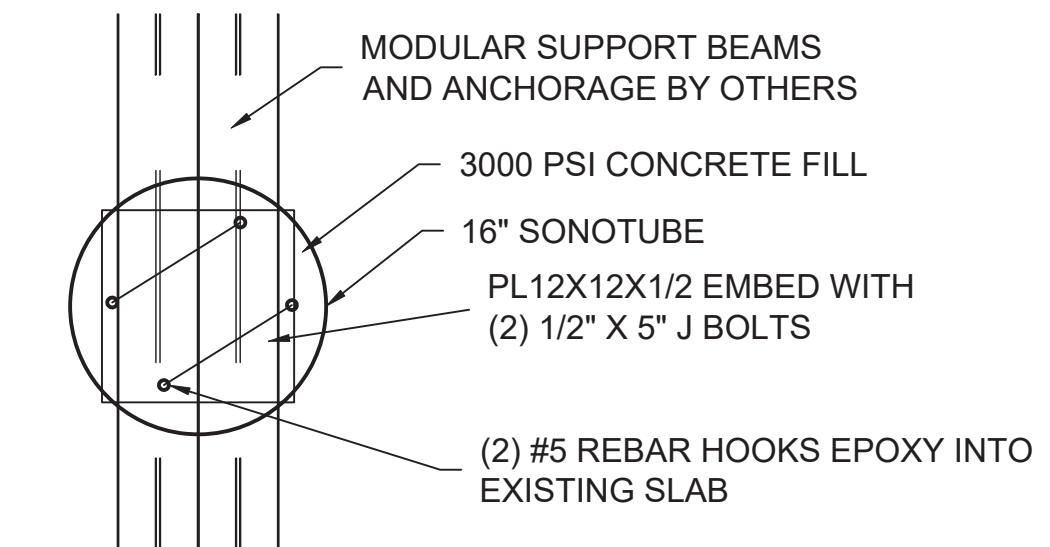
(F1-2) FOUNDATION PLAN (ENLARGED RAMP)
S1.1 SCALE: 1/2" = 1'-0"



(D-1) SECTION AT TOP OF RAMP
S1.1 SCALE: 1" = 1'-0"



(D-2) SECTION AT SIDE OF RAMP
S1.1 SCALE: 1" = 1'-0"



(F1-3) PIER DETAIL
S1.1 SCALE: 1" = 1'-0"

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

PHASE:				
CONSTRUCTION DOCUMENTS	DRAWN	CHECKED	DATE	
BID DOCUMENTS			11/30/18	
			1/29/2019	

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100 PANAMA CITY BEACH, FLORIDA PHONE: (850) 236-9832 Commission Number: 18771

CONSULTANTS:
STRUCTURAL ENGINEER
BTKE ENGINEERING SERVICES, INC.
1101 BRICKYARD ROAD, CHIPLEY, FL 32428
ENGINEERING BUSINESS #9613 / BRADLEY T. KENT P.E. FLORIDA REGISTRATION #55354 / PHONE: (850) 676-4140

PROJECT: EXODUS 4:11

PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

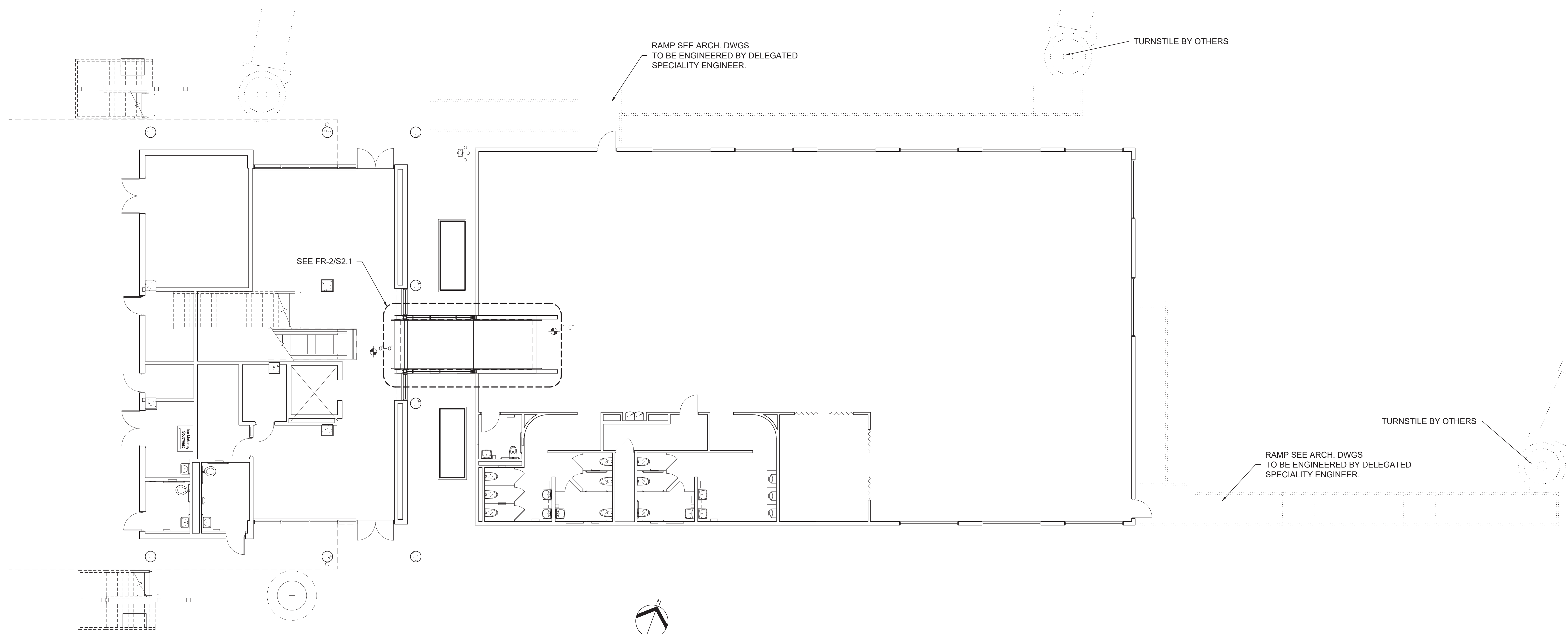
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FOUNDATION PLAN

SHEET NUMBER:

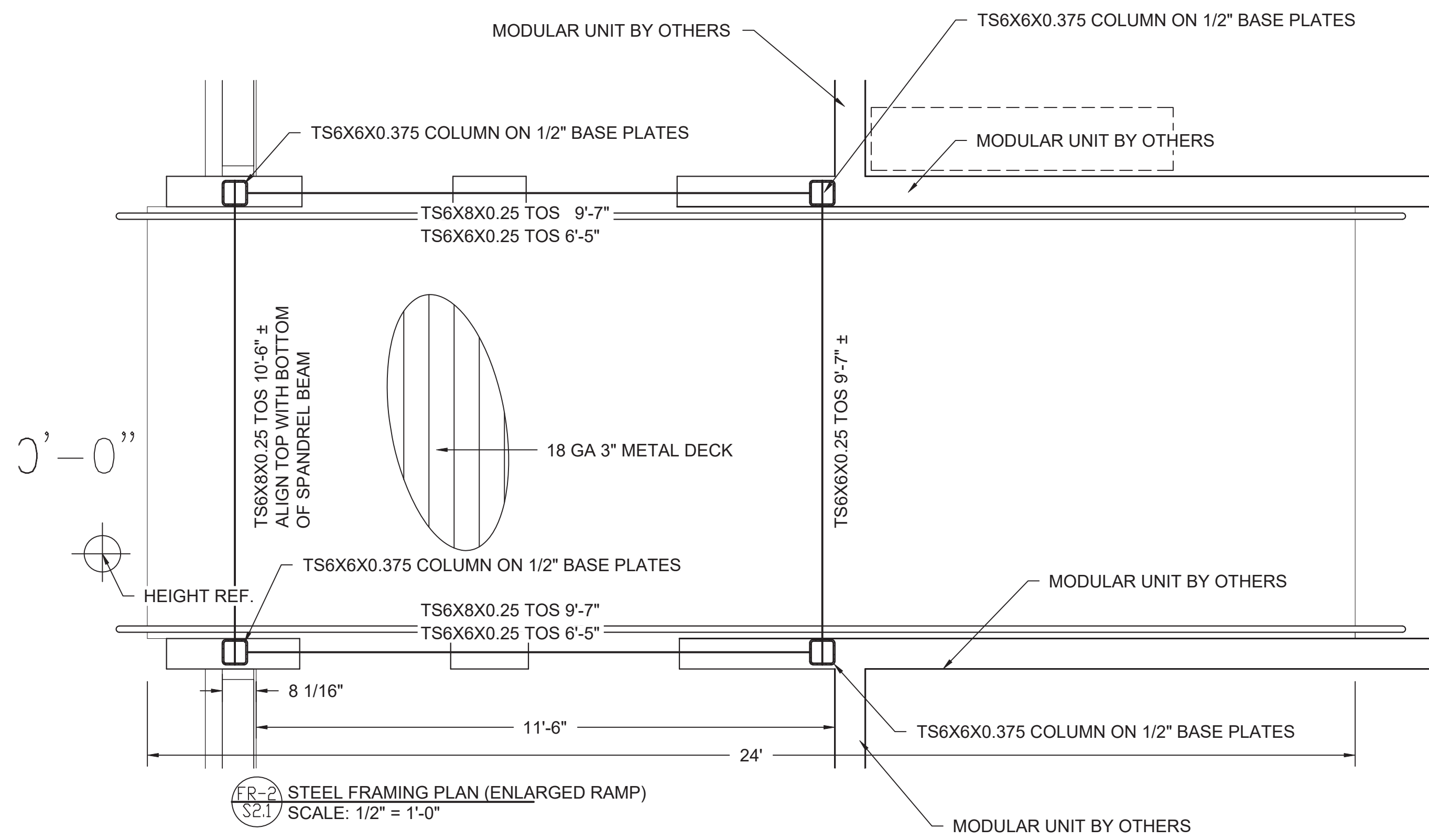
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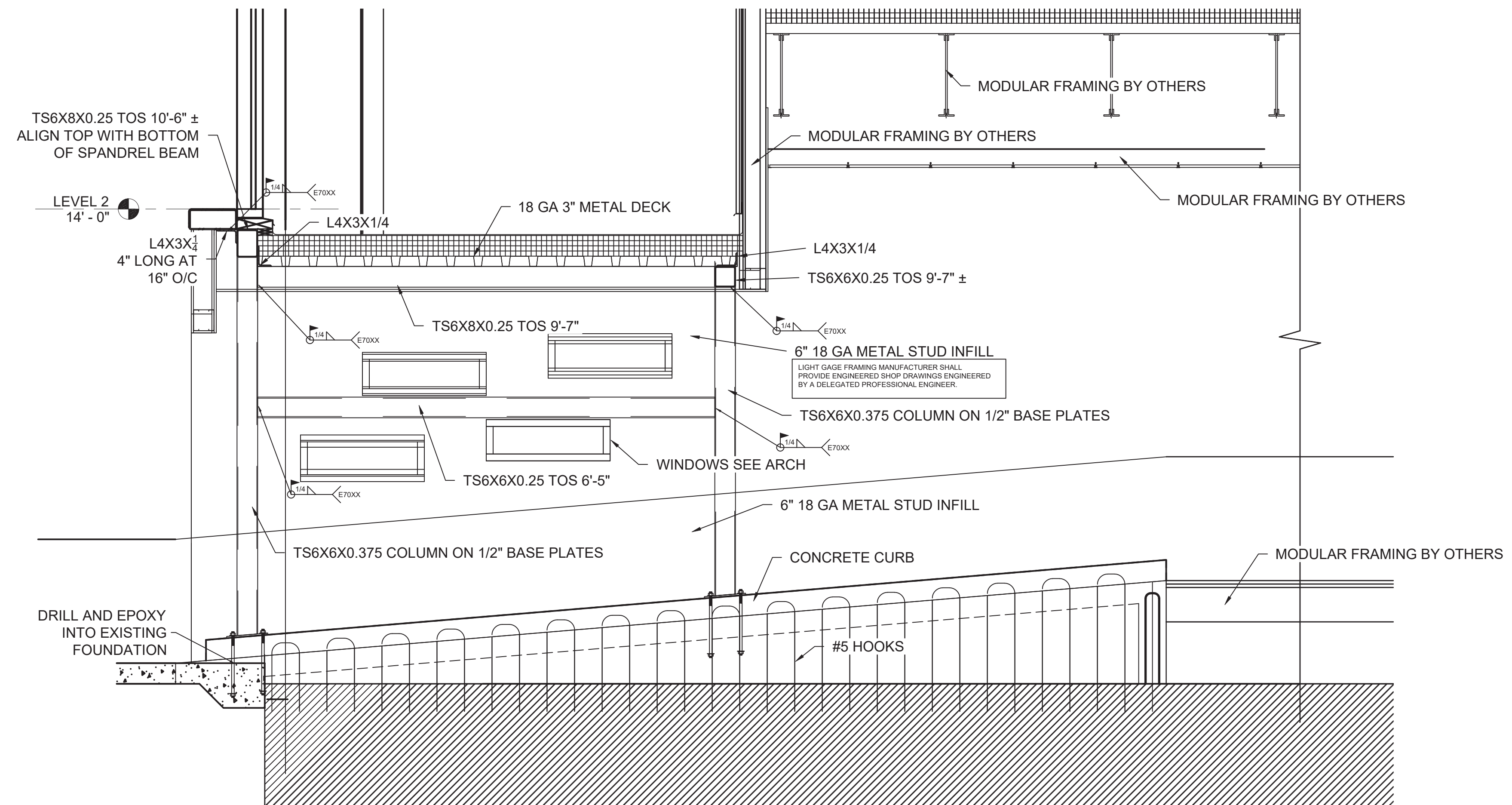
S1.1



FR-1 STEEL FRAMING PLAN (OVERALL)
SCALE: 1/8" = 1'-0"



FR-2 STEEL FRAMING PLAN (ENLARGED RAMP)
SCALE: 1/2" = 1'-0"



FR-3 STEEL SECTION AT RAMP
SCALE: 1/2" = 1'-0"

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19
PHASE:				
CONSTRUCTION DOCUMENTS				11/30/18
BID DOCUMENTS				1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

CONSULTANTS:
STRUCTURAL ENGINEER
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1101 BRICKYARD ROAD, CHIPLEY, FL 32428
ENGINEERING BUSINESS #9613 / BRADLEY T. KENT P.E. FLORIDA
REGISTRATION #59384 / PHONE: (850) 676-4140

PROJECT: EXODUS 4:11

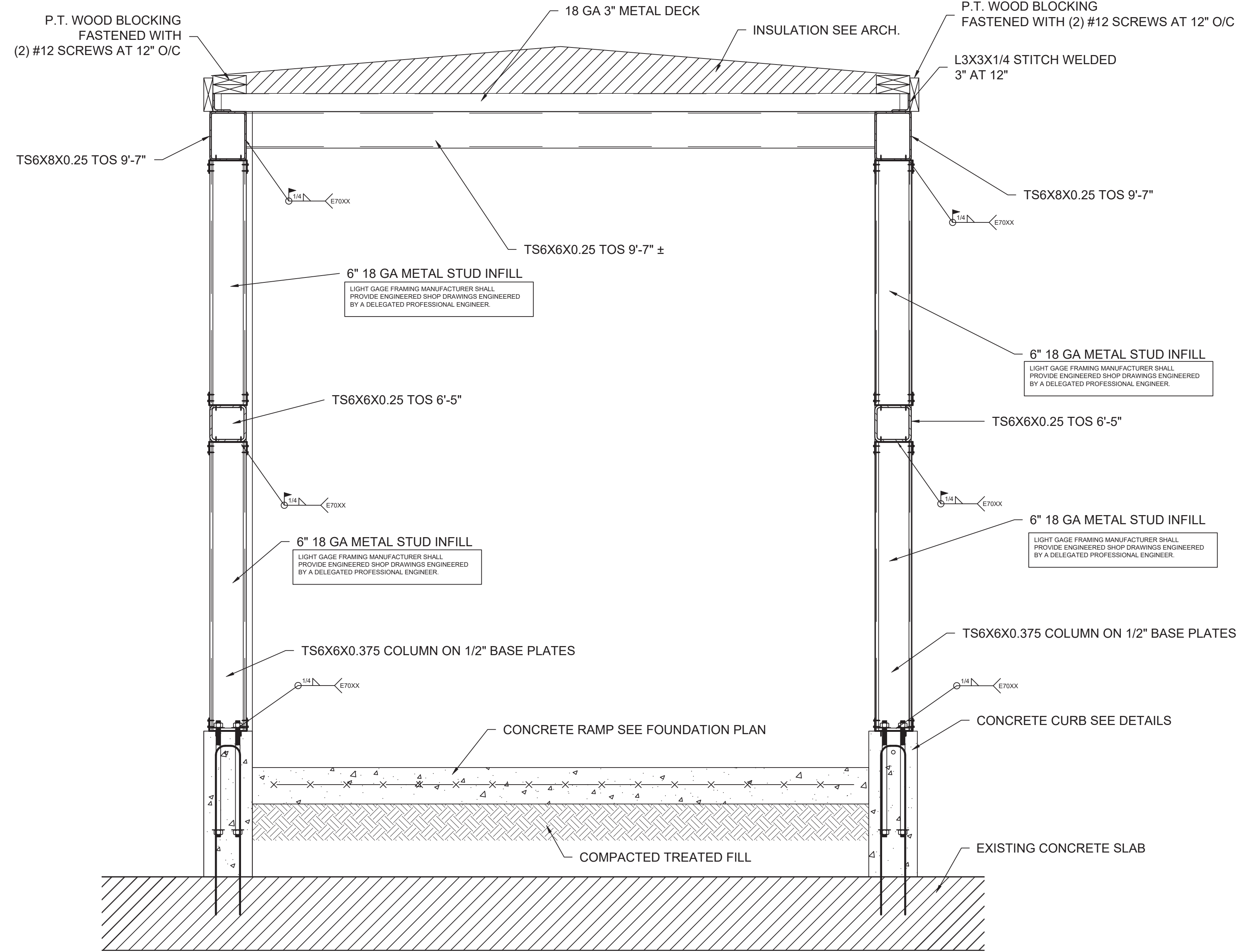
PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

SHEET TITLE: STEEL PLAN AND SECTIONS

SHEET NUMBER:

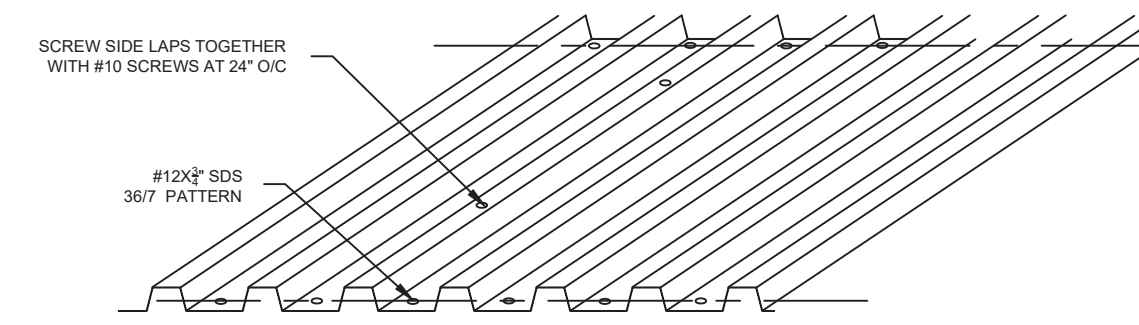
S2.1

7/1-S1-2018-086-STRUCTURAL.S.DWG
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SR-3 STEEL FRAMING SECTION (THROUGH RAMP)
SCALE: 1" = 1'-0"

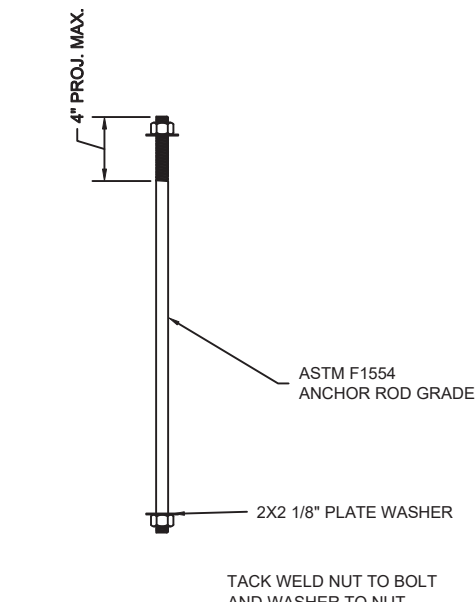
NOTE: ALL CONNECTIONS ARE FULLY WELDED FIELD WELDS
E70XX PER AWS PREQUALIFIED WELDS 3" MINIMUM



JK-1 METAL DECK FASTENING PATTERN
SCALE: NOT TO SCALE

DECK GAUGE	TYPE N
18 GA	
DEPTH	3"
SPLY	G90
Sp	0.888
Sm	0.140

Metal Deck Schedule						
Location	Type	Height	Gauge	Fasteners	Fastener Pattern	Galvanize
Roof	N	3"	18	#12	24/4	G90



AR-1 ANCHOR BOLT
SCALE: 1" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

PHASE:

CONSTRUCTION DOCUMENTS	DRAWN	CHECKED	DATE
			11/30/18
BID DOCUMENTS			1/29/2019

JRA 2211 THOMAS DRIVE, SUITE 100
Architects, Inc. PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

CONSULTANTS:
STRUCTURAL ENGINEER
IBTK ENGINEERING SERVICES, INC.
1101 BRICKYARD ROAD, CHIPLEY, FL 32428
ENGINEERING BUSINESS #9613 / BRADLEY T. KENT P.E. FLORIDA
REGISTRATION #59394 / PHONE: (850) 676-4140

PROJECT: EXODUS 4:11

PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

SHEET TITLE:
STEEL SECTIONS

SHEET NUMBER:

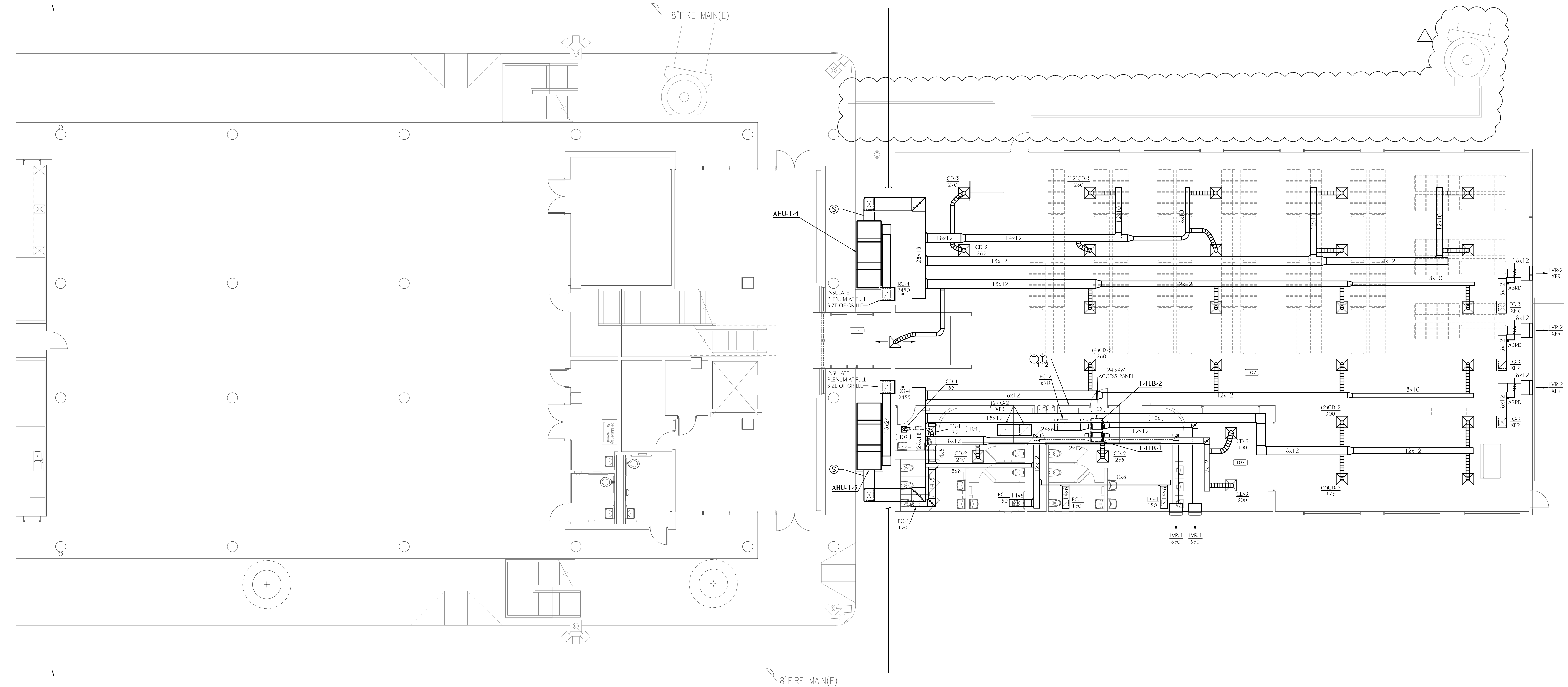
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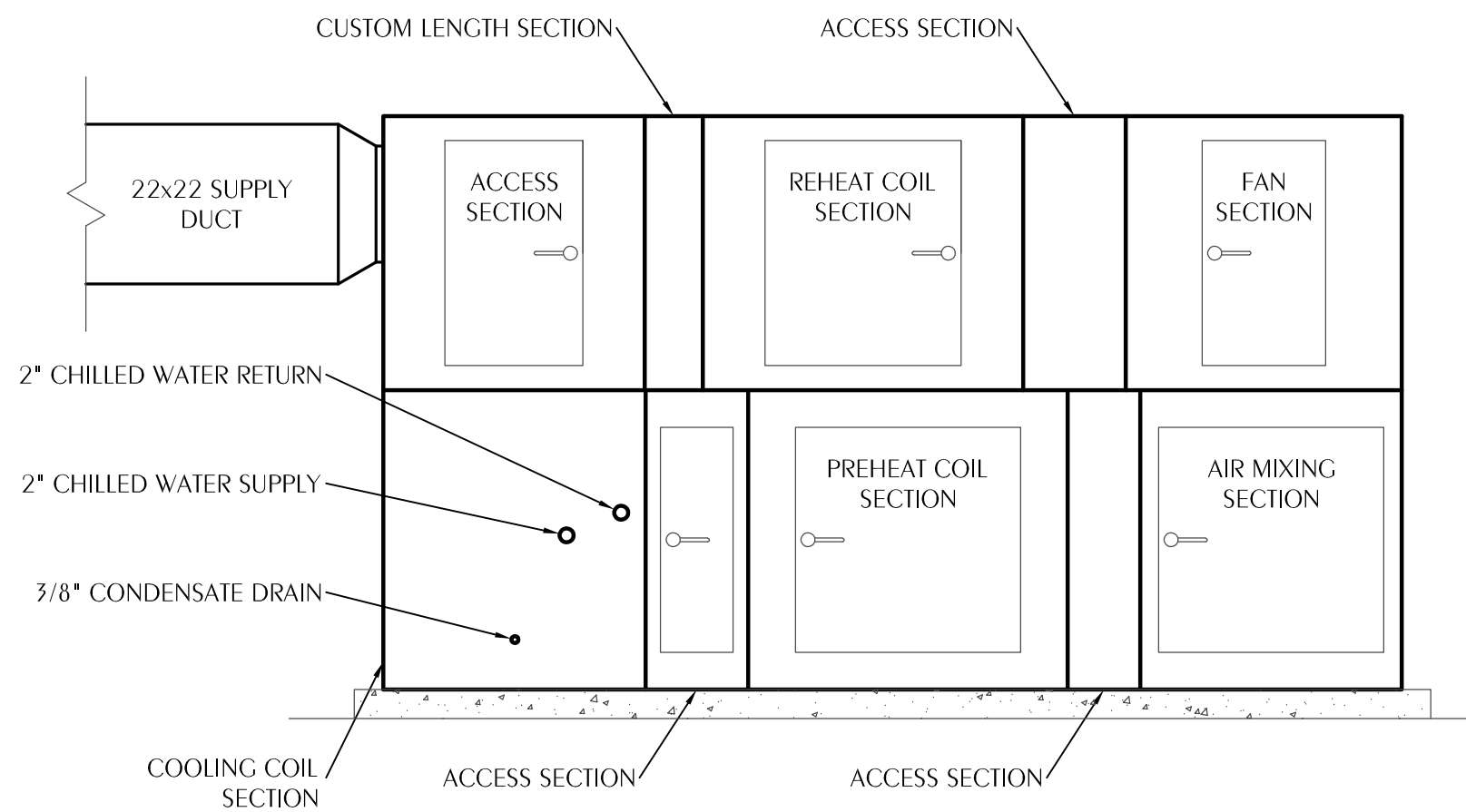
S3.1

ROOM DESCRIPTIONS

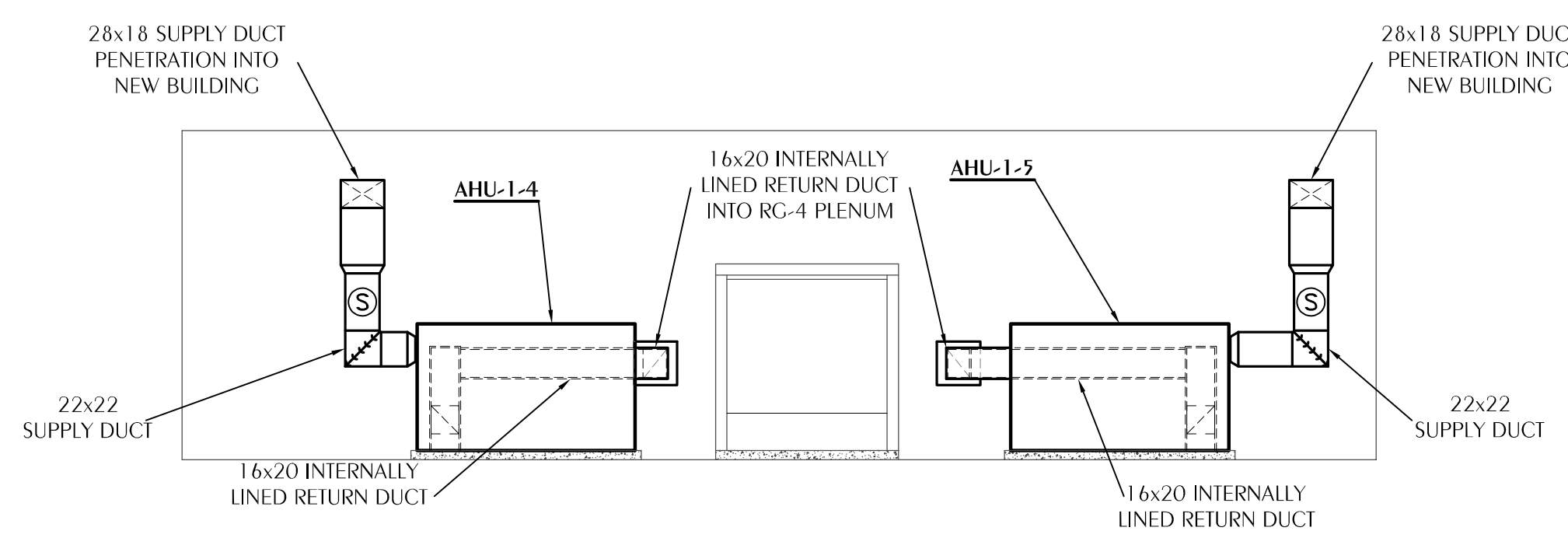
101 RAMP	105 ELEC/MECH
102 TERMINAL	106 MEN
103 FAMILY RESTROOM	107 CONCESSION
104 WOMEN	



1 HVAC NEW WORK PLAN
SCALE: 1/8" = 1'-0"



2 AIR HANDLER DETAIL
SCALE: NONE



3 NEW AIR HANDLERS ELEVATION
SCALE: 1/8" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK	ECB	DNU	06/11/19

PHASE:

DESCRIPTION	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS	ECB	DNU	11/30/18
BID DOCUMENTS	ECB	DNU	1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

PROJECT:
PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC NEW WORK PLAN

SHEET NUMBER:
M1.1

Watford Engineering, Inc.
Mechanical Consulting
471 Clinton Street
Marianna, FL 32446
Florida CA Number: 27825
Project Number: 2018-0025

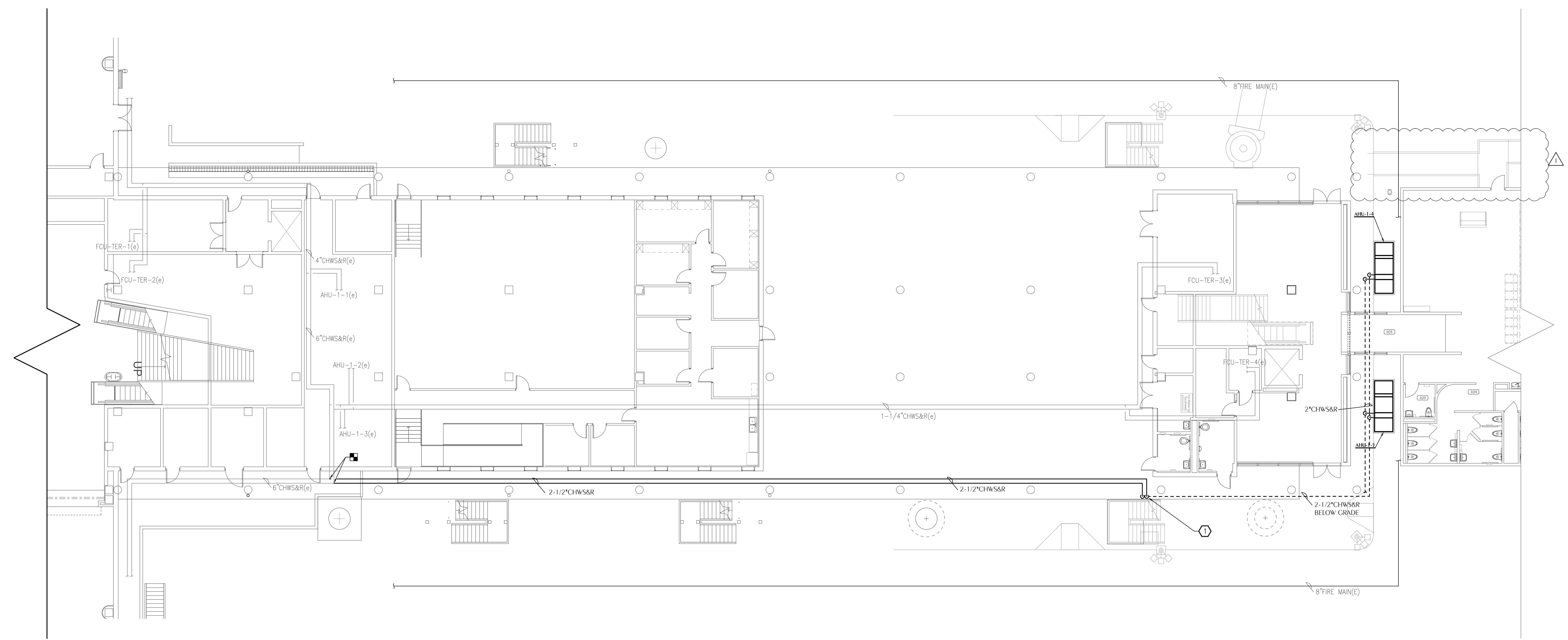
T: 904-265-9447
F: 904-265-9448
David N Watford, PE
FL License Number: 28268

ROOM DESCRIPTIONS

101 RAMP	105 ELEC/MECH
102 TERMINAL	106 MEN
103 FAMILY RESTROOM	107 CONCESSION
104 WOMEN	

SHEET NOTES

- ① RISE EXPOSED AT EXISTING COLUMN AND ROUTE NEW CHILLED WATER PIPING ALONG UNDERSIDE OF SECOND FLOOR DECK TO THE POINT OF CONNECTION TO EXISTING.



REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK	ECB	DNU	06/11/19

PHASE:

CONSTRUCTION DOCUMENTS	DRAWN	CHECKED	DATE
	ECB	DNU	11/30/18
BID DOCUMENTS	ECB	DNU	1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
 PANAMA CITY BEACH, FLORIDA
 PHONE: (850) 236-9832
 Commission Number: 18771

HVAC PIPING PLAN
 M1.2 SCALE: 3/32" = 1'-0"

Watford Engineering, Inc.
 Mechanical Consulting
 471 Clinton Street
 Marianna, FL 32446
 Florida CA Number: 27825
 Project Number: 2018-0025

T: 904-265-9447
 F: 904-265-9448
 David N Watford, PE
 FL License Number: 38269

PROJECT:
**PANAMA CITY
 TERMINAL EXPANSION**
 PANAMA CITY, FLORIDA

SHEET TITLE:
**HVAC PIPING
 PLAN**

SHEET NUMBER:
M1.2

LEGEND

	S or W	SOIL OR WASTE PIPING
	V	VENT PIPING
	CW	COLD WATER SUPPLY PIPING
	HW	HOT WATER SUPPLY PIPING
	HWR	HOT WATER RETURN PIPING
	A	COMPRESSED AIR
	G	GAS
	GV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	COTG	CLEANOUT TO GRADE
	COAC	CLEANOUT ABOVE CEILING
	UNION	UNION
	VTR	VENT THRU ROOF
	①	SHEET NOTE
	■	POINT OF CONNECTION TO EXISTING
	SH	SHOWER
	MR	MOP RECEPTOR
	UR	URINAL
	WC	WATER CLOSET
	UB	WALL MOUNTED UTILITY BOX
	IWH	INSTANTANEOUS ELECTRIC WATER HEATER
	EWC	ELECTRIC WATER COOLER
	L	LAVATORY
	WH	WALL HYDRANT
	HB	HOSE BIBB
	KW	KILO WAIT
	AD	AIR DROP
	TP	AUTOMATIC TRAP PRIMER
	WHA	TYPE "A" WATER HAMMER ARRESTER
	WHB	TYPE "B" WATER HAMMER ARRESTER
	WHC	TYPE "C" WATER HAMMER ARRESTER
	HR	HOSE REEL
	A	AIR
	G	GAS
	AC	AIR COMPRESSOR
	ELL-1(M)	EQUIPMENT TAG; (M) INDICATES MECHANICAL EQUIPMENT; REFER TO M SHEETS

PLUMBING FIXTURE SCHEDULE

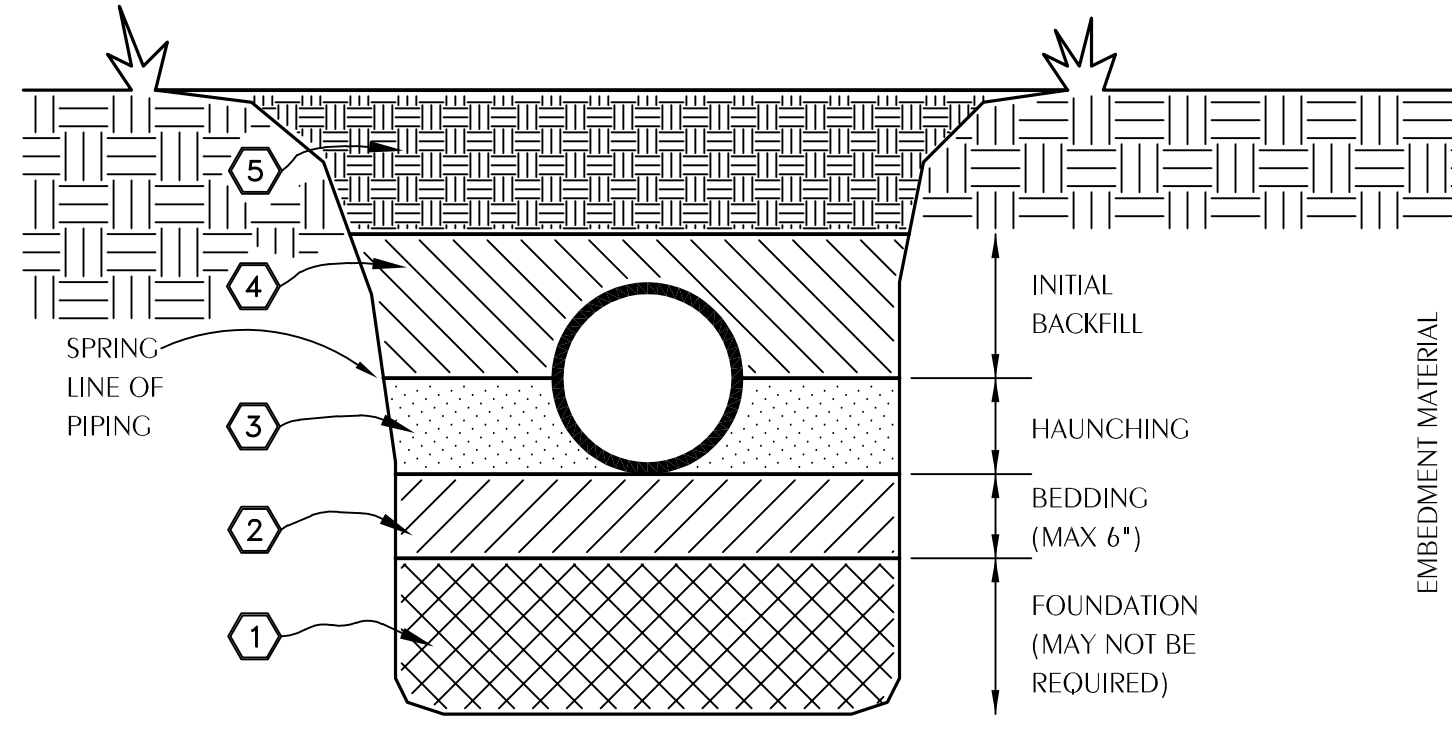
MARK	FIXTURE	PIPE SIZES-INCHES				REMARKS
		CW	HW	W	G	
PS-1	PUMP STATION	-	-	4	-	DUPLEX SUBMERSIBLE VORTEX PUMPS, 48" DIA. x 60" HEIGHT BASIN, BRONZE, 1" P. S. CONNECTION, DISCHARGE HEAD, SUBMERSIBLE SWITCH WITH ROD AND FLOAT, AIR TIGHT COVER, 4" INLET, 2" OUTLET. EACH PUMP SHALL BE 75 GPM @ 34 FT HD.

PLUMBING GENERAL NOTES

- COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
- PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
- FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
- ALL PIPING PASSING THROUGH WALLS SHALL HAVE A SLEEVE PER SPECIFICATIONS.
- ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS.
- ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
- UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
- PRIOR TO SUBSTANTIAL COMPLETION OF NEW WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
- ALL (VIR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VIR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
- ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
- ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE.
- CONTRACTOR SHALL DEVELOP COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.

- A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
- BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
- HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
- INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
- FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30% OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL-LOADED.

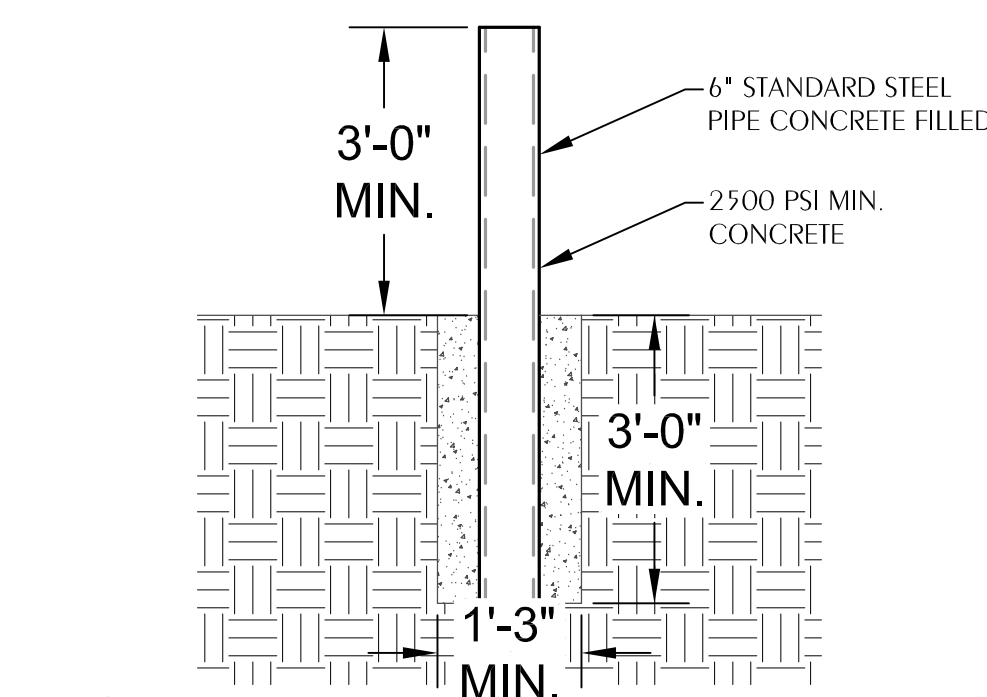
NOTE:
ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2017 FLORIDA PLUMBING CODE.



- EMBEDMENT MATERIALS:**
- CLASS I: ANGULAR, 1-1/4" - 1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.
 - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES CW, CP, SW, AND SP ARE INCLUDED IN THIS CLASS.
 - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.
 - CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.
 - CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

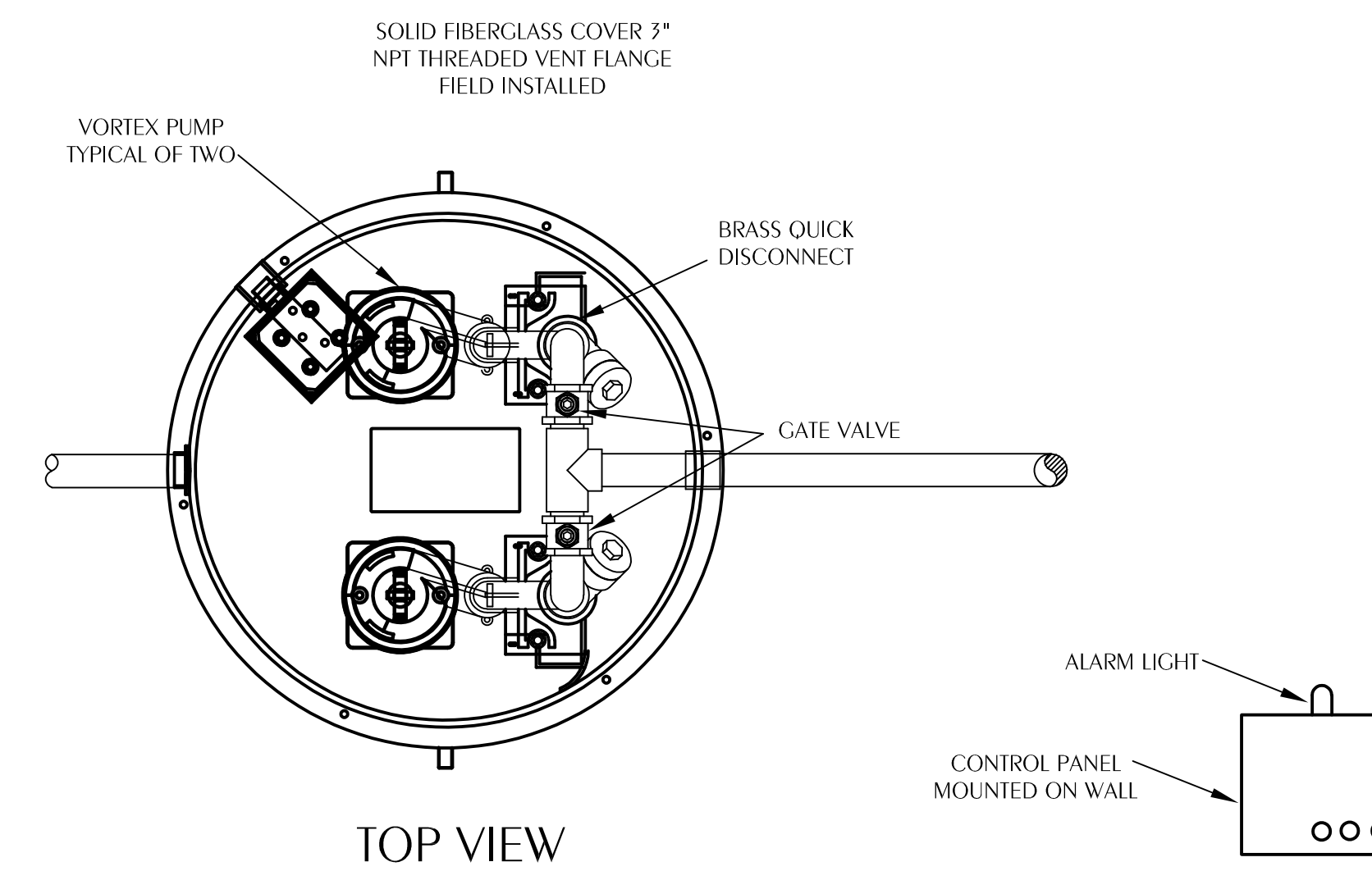
1 EXCAVATION AND BACKFILL DETAIL

SCALE: NONE



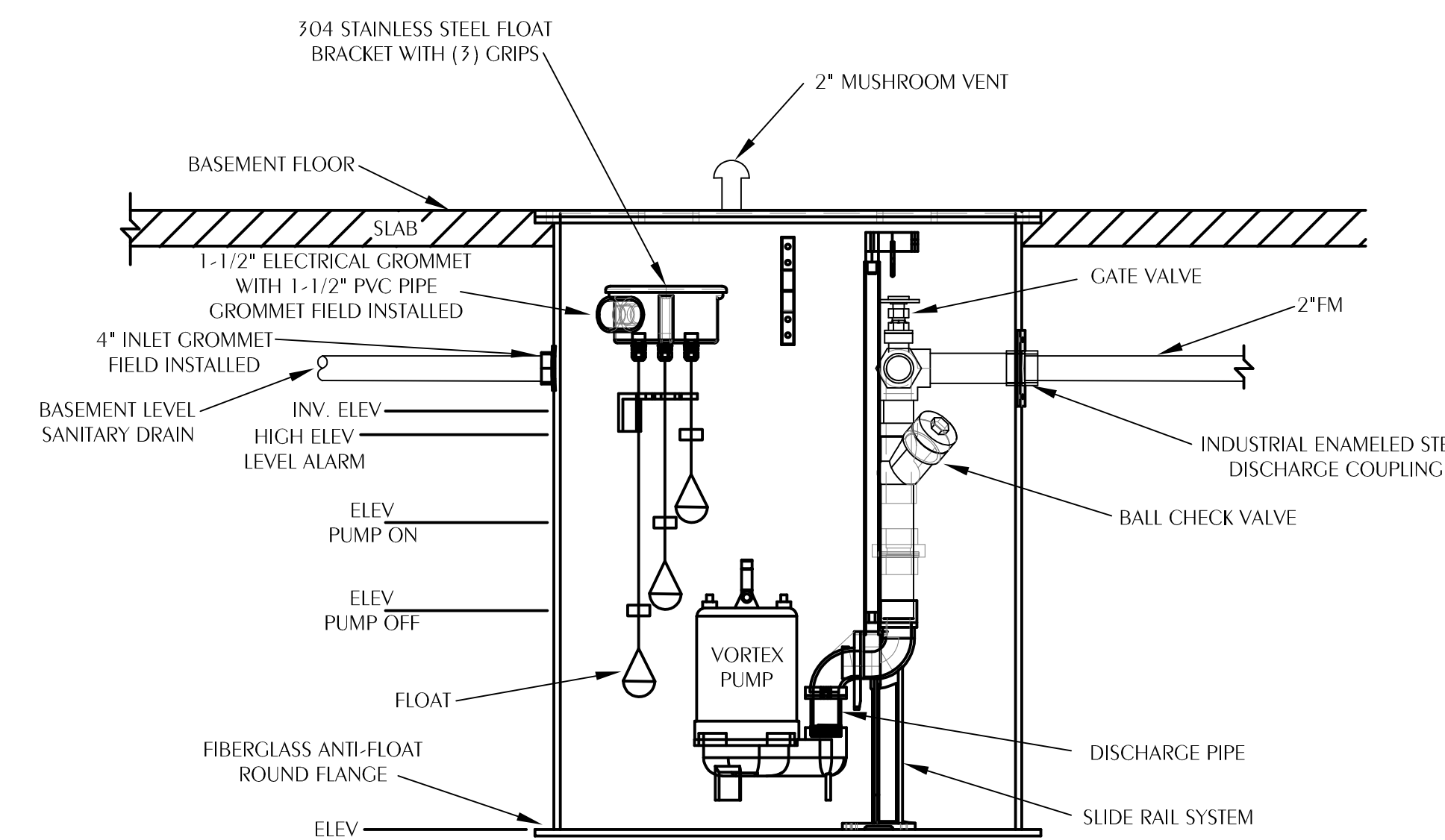
2 TYPICAL BOLLARD DETAIL

SCALE: NONE



3 SEWAGE EJECTOR PUMP DETAIL

SCALE: NONE



REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	ADDENDUM #2	ECB	DNW	05/07/18

PHASE:

	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS	ECB	DNW	11/30/18
BID DOCUMENTS	ECB	DNW	1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
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PHONE: (850) 236-9832
Commission Number: 18771

CONSULTANTS:

PROJECT:

**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING LEGEND,
SCHEDULE, DETAILS,
AND NOTES

SHEET NUMBER:

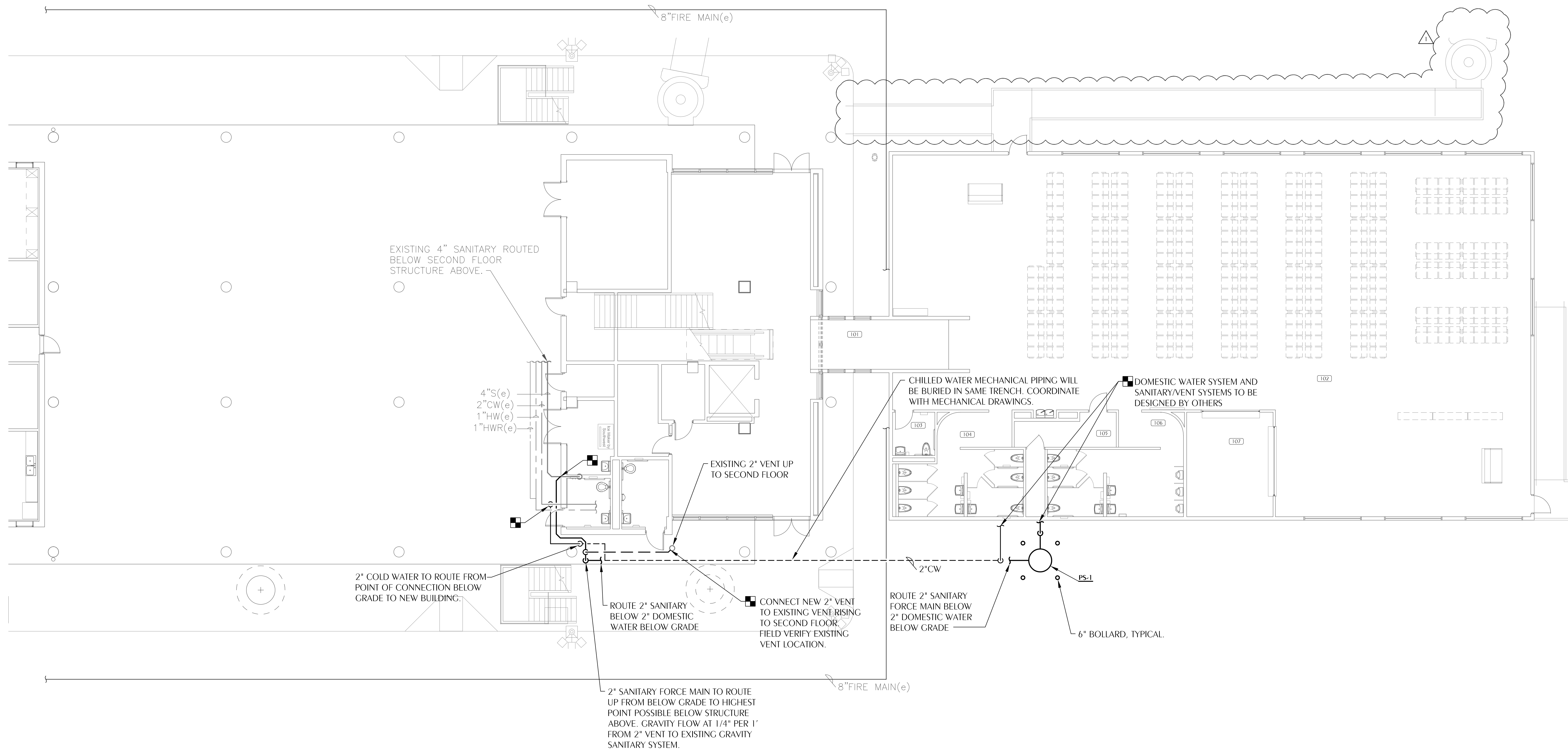
P0.1

**Watford
Engineering, Inc.**
Mechanical Consulting
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Maitland, FL 32751
Florida CA Number: 27825
Project Number: 2018-0025

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ROOM DESCRIPTIONS

101 RAMP	105 ELEC/MECH
102 TERMINAL	106 MEN
103 FAMILY RESTROOM	107 CONCESSION
104 WOMEN	



PLUMBING NEW WORK PLAN
SCALE: 1/8" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK	ECB	DNU	06/11/19

PHASE:

DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS	ECB	DNU
BID DOCUMENTS	ECB	DNU

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Commission Number: 18771

CONSULTANTS:
PROJECT:

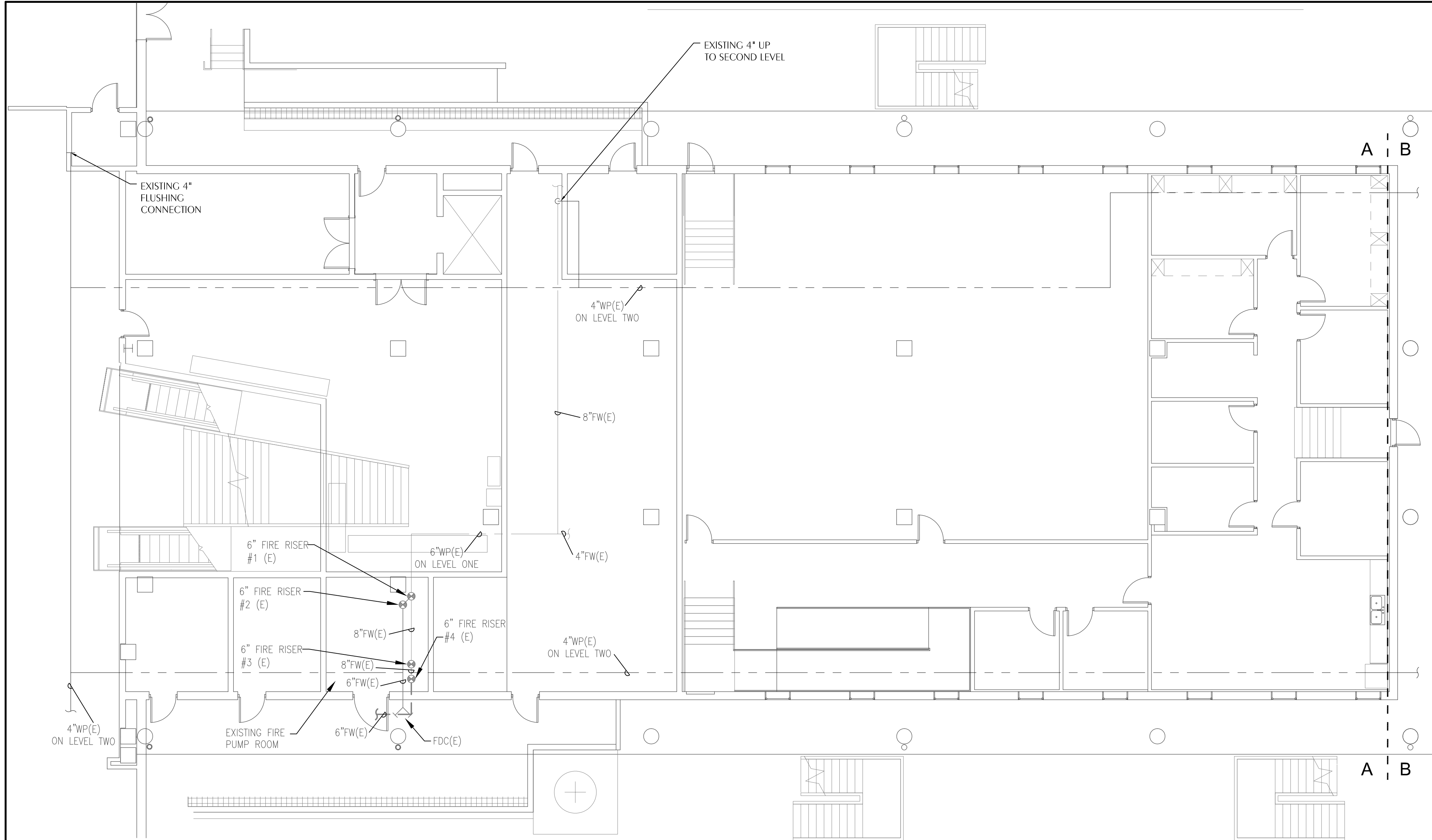
**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:
**PLUMBING NEW
WORK PLAN**

SHEET NUMBER:
P1.1

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FL License Number: 28268



HAZARD CLASSIFICATION	
[Blank]	LIGHT HAZARD
[Diagonal Hatching]	ORDINARY HAZARD GROUP 1
[Cross-hatching]	ORDINARY HAZARD GROUP 2

LEGEND	
—	FW FIRE WATER SUPPLY
- - -	DP DRY PIPE SPRINKLER SUPPLY
- - -	FM EXISTING UNDER GROUND FIRE SPRINKLER MAIN
- - -	WP WET PIPE SPRINKLER SUPPLY
(E)	EXISTING

GENERAL NOTES

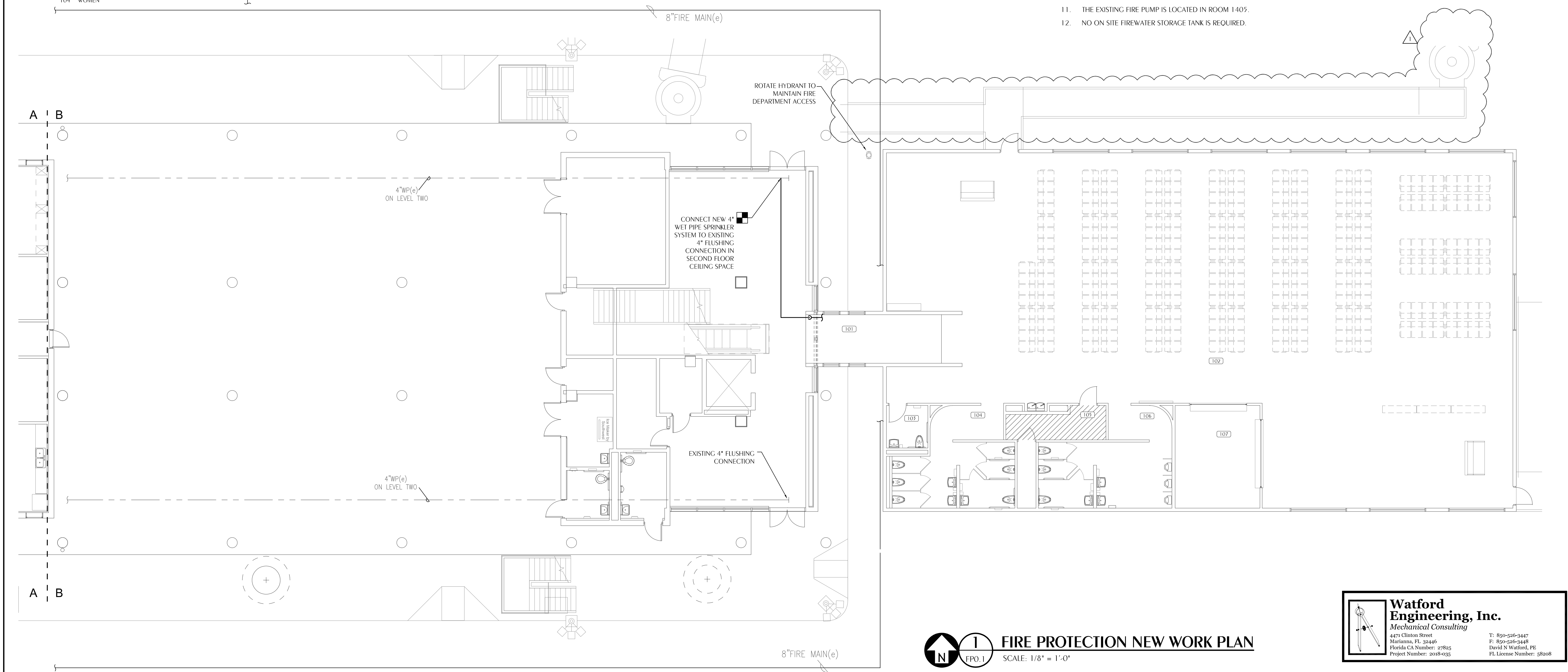
- IT IS NOTED THAT SOME AREAS WILL BE REQUIRED TO BE PROTECTED AS ORDINARY HAZARD (MECHANICAL ROOMS, ETC.) THESE AREAS HAVE BEEN IDENTIFIED BY A DIFFERENT HATCHING PATTERN THEN THE LIGHT HAZARD AREAS ON THE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT WATER FLOW DATA AND DESIGN SPRINKLER SYSTEMS ACCORDINGLY. SHALL OBTAIN CURRENT WATER FLOW DATA AND DESIGN MODIFICATIONS ACCORDINGLY.
- MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
- CONTRACTOR SHALL COORDINATE SYSTEM DESIGN WITH ALL OTHER TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
- ALL PIPING SHALL OBSERVE PROPER PITCH. PROVIDE DRAINS FOR LOW POINTS.
- THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSSMAINS.
- PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA 13 FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICES SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD.
- THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
- TRENCHING SHALL BE PERFORMED BY HAND WHERE THERE IS THE POSSIBILITY OF ENCOUNTERING OBSTACLES OR EXISTING UTILITY LINES. WHERE CLEAR AND UNOBSTRUCTED AREAS ARE TO BE EXCAVATED, APPROPRIATE MACHINE EXCAVATION METHODS MAY BE EMPLOYED. PROVIDE PROPER BACKFILL AS REQUIRED PER SPECIFICATIONS.
- HEAD LOCATIONS SHALL BE CENTER OF TILE IN THE LAY IN CEILING & GUIDED BY ARCHITECTURAL ELEMENTS IN OTHER AREAS.
- DO NOT LOCATE INSPECTOR'S TEST LOCATIONS OR DRAINS IN FINISHED OR OTHER FINISHED SPACES. INDICATE ALL LOCATIONS ON SHOP DRAWINGS.

WATER BASED SPRINKLER SYSTEM REQUIREMENTS

- THE PROJECT IS A MODIFICATION OF EXISTING FIRE SPRINKLER SYSTEM. NO CHANGE IN POINT OF SERVICE OF WATER SUPPLY WILL OCCUR.
- THE TERMINAL ADDITION SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH THE MOST RECENT EDITION OF NFPA 13 AND LOCAL CODES.
- THERE IS NO CHANGE TO HAZARD CLASSIFICATION.
- THE MODIFICATION TO EXISTING SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13.
 - LIGHT HAZARD: 0.10 GPM/SF, MAX 225 SF PER HEAD, 15 FT MAX NOMINAL SPACING, ORDINARY TEMPERATURE RATING HEADS.
 - ORDINARY HAZARD GROUP 1: 0.15 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING, INTERMEDIATE TEMPERATURE RATING HEADS.
 - ORDINARY HAZARD GROUP 2: 0.20 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING, INTERMEDIATE TEMPERATURE RATING HEADS.
- THE POINT OF SERVICE CONNECTION IS EXISTING, AND WILL NOT BE MODIFIED WITH THIS PROJECT.
- NO NEW FLOW TEST IS REQUIRED FOR THIS MODIFICATION TO EXISTING SYSTEM.
- THE EXISTING RISER WILL NOT BE MODIFIED WITH THIS PROJECT.
- MICROBIAL INDUCED CORROSION IS NOT ANTICIPATED IN THIS PROJECT.
- BACKFLOW PREVENTER IS EXISTING AND WILL NOT BE MODIFIED WITH THIS PROJECT.
- REFER TO GENERAL NOTES AND SPECIFICATIONS FOR QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL FIRE PROTECTION COMPONENTS.
- THE EXISTING FIRE PUMP IS LOCATED IN ROOM 1405.
- NO ON SITE FIREWATER STORAGE TANK IS REQUIRED.

ROOM DESCRIPTIONS

101 RAMP	105 ELEC/MECH
102 TERMINAL	106 MEN
103 FAMILY RESTROOM	107 CONCESSION
104 WOMEN	



REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK	ECB	DNU	06/11/19

PHASE:	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS	ECB	DNU	11/30/18
BID DOCUMENTS	ECB	DNU	1/29/2019

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 Commission Number: 18771

PROJECT:
PANAMA CITY TERMINAL EXPANSION
 PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE PROTECTION NEW WORK PLAN

SHEET NUMBER:
FP0.1

ELECTRICAL LEGEND

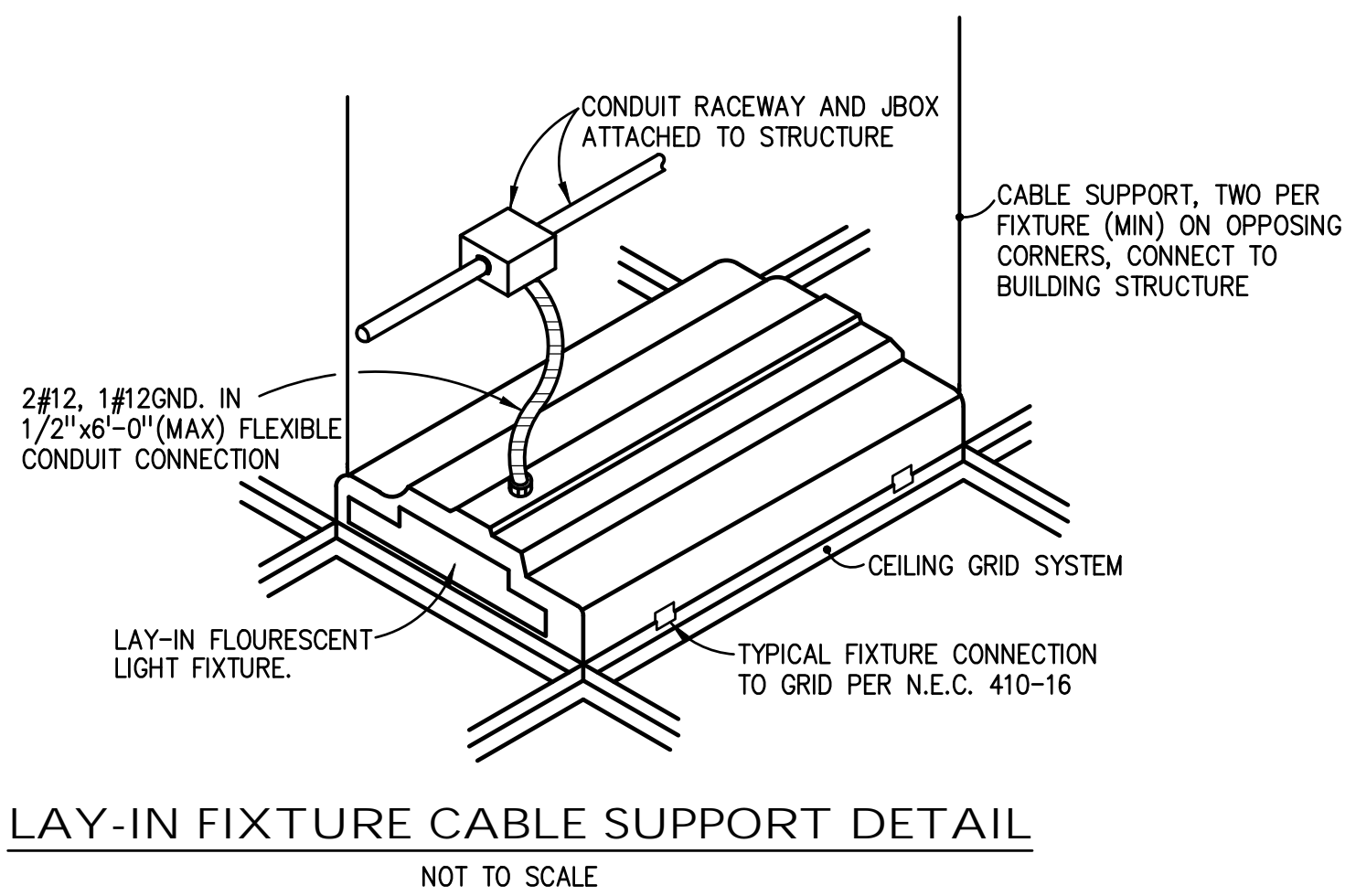
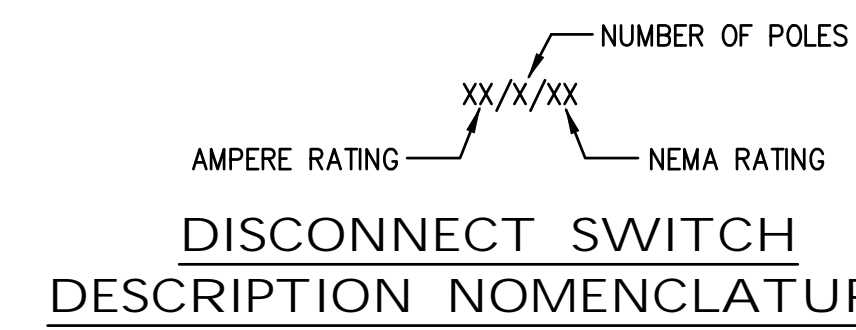
- A-1 ADJACENT TO ARROW INDICATES HOMERUN OF CIRCUIT NO. 1 TO PANEL A; "B" INDICATES FIXTURE TYPE; MARKS ACROSS RACEWAY RUN INDICATES THE NUMBER OF NO. 12 CONDUCTORS; UNLESS NOTED OTHERWISE NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 1/2" CONDUIT (2#12 & 1#12 GND-1/2" C)
- CEILING FIXTURE
- CEILING FIXTURE ON LIFE SAFETY CIRCUIT
- 4 FT L.E.D SLOT FIXTURE; CEILING MOUNTED
- 4 FT L.E.D. SLOT FIXTURE ON LIFE SAFETY CIRCUIT CEILING MOUNTED
- EXIT SIGN; BACK MOUNTED
- JUNCTION BOX; MOUNTED ABOVE CEILING
- JUNCTION BOX; MOUNTED FLUSH IN WALL WITH BLANK COVER
- DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
- QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L; NEMA 5-20R; HUBBELL SERIES HBL5352
- DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; GFI; MT 26" AFF TO C/L FOR DRINKING FOUNTAIN; NEMA GF-5-20R; HUBBELL SERIES GF5362
- DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; GFI; WP; MT HORIZONTALLY 26" AFF TO C/L; NEMA GF-5-20R; HUBBELL SERIES HBLGF5362; PASS AND SEYMOUR WULFOTOS COVER/BOX.
- DUPLEX RECEPTACLE WITH USB CHARGER RECEPTACLE; 125V, 20A, 3 POLE GROUND, MOUNT 18" AFF TO C/L UNLESS NOTED OTHERWISE; 3 AMPS, USB 5VDC, HUBBELL USB 20X2GY, NEMA 5-20R.
- QUAD RECEPTACLE WITH USB CHARGER RECEPTACLE; 125V, 20A, 3 POLE GROUND, MOUNT 18" AFF TO C/L UNLESS NOTED OTHERWISE; 3 AMPS, USB 5VDC, HUBBELL USB 20X2GY, NEMA 5-20R.
- S WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1221
- S V LOW VOLTAGE WALL SWITCH; MT 48" AFF TO C/L; REFER TO LIGHTING CONTROLS DIAGRAMS
- S OCCUPANCY SENSOR DUAL TECHNOLOGY TYPE; MT 48" AFF TO C/L; REFER TO SPECS
- NORMAL/EMERGENCY LIGHTING SWITCHING RELAY; MOUNT ABOVE CEILING
- OCCUPANCY SENSOR POWER PACK; MOUNT ABOVE CEILING
- LOW VOLTAGE OCCUPANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED
- LOW VOLTAGE DAYLIGHT SENSOR; CEILING MOUNTED
- PANEL; 120/208V; MT 72" AFF TO TOP
- PANEL; 277/480V; MT 72" AFF TO TOP
- DRY TYPE TRANSFORMER; SIZE AND RATING AS NOTED
- MAGNETIC STARTER; FURNISHED BY OTHERS
- FUSED DISCONNECT SWITCH; AMP SIZE AS NOTED; FUSE SIZE PER EQUIPMENT NAMEPLATE DATA
- RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
- RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE
- RACEWAY INSTALLED EXPOSED
- FLEXIBLE CONDUIT CONNECTION
- CONDUIT STUB UP WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
- DATA SYSTEM WALL OUTLET WITH ONE(1) RJ-45 JACK AND COVERPLATE; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE - TWO CAT-6 CABLES BACK TO COMM RACK IN ELECTRICAL ROOM #105
- FIRE ALARM SYSTEM MANUAL PULL STATION; MT 48" AFF TO C/L
- FIRE ALARM SYSTEM STROBE; MT 80" AFF TO BOTTOM, '110' INDICATES CANDELA RATING, NO NUMBER INDICATES 75 CANDELA MINIMUM
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR
- NORMALLY CLOSED RELAY IN H.V.A.C CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT. CONTACTS RATED 5 AMPS, 120 VOLTS.
- FIRE ALARM SYSTEM SIGNAL SPEAKER/STROBE; MT 80" AFF TO BOTTOM, '110' INDICATES CANDELA RATING, NO NUMBER INDICATES 75 CANDELA MINIMUM
- FIRE ALARM SYSTEM EXTERIOR WEATHERPROOF SIGNAL SPEAKER/STROBE; MT 80" AFF TO BOTTOM, 75 CANDELA RATING UNLESS NOTED OTHERWISE
- CEILING SPEAKER; REFER TO SPECS
- MICROPHONE WALL OUTLET; REFER TO SPECS; MT 48" AFF TO C/L
- COMBINATION FLOOR BOX; HUBBELL SERIES S1PFB ROUND MULTI-SERVICE PVC FLOOR BOX; SIC FCAL ALUMINUM UNIVERSAL COVER; S1SP4X4 SUBPLATE; 4 SINGLE 125V, 20A RECEPTACLES; 4 HBL60W CAT6 MODULAR RECEPTACLES.
- TWIN DUPLEX FLOOR RECEPTACLE WITH USB CHARGER RECEPTACLE; 3 AMPS; USB 5VDC; 125V; 20A; 3 POLE GND; STYLELINE DECORATOR NEMA 5-20R; HUBBELL USB 20X2GY; HUBBELL SERIES S1PFB ROUND MULTI-SERVICE PVC FLOOR BOX; SIC FCAL ALUMINUM UNIVERSAL COVER AND S1SP SUBPLATE.

ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- C. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.
- D. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- E. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- F. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- G. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- H. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
- I. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
- J. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL, "T" FOR TELEPHONE, "V" FOR TV CABLE, "F" FOR FIRE ALARM, AND "IC" FOR INTERCOM.
- K. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- L. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- M. FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.
- N. VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
- O. FINAL CONNECTION TO ALL DRY TYPE TRANSFORMERS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- P. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- Q. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
- R. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
- S. ALL WORK SHALL BE INSTALLED IN CONCEALED TYPE CONSTRUCTION. UNDERGROUND CONDUITS UP TO FIRST BOX IN CONCEALED CONSTRUCTION MAY BE SCH-40 PVC. EXTERIOR EXPOSED WORK SHALL BE I.M.C. BRANCH CIRCUIT CONDUIT RUN IN OPEN SPACES ABOVE CEILING OR IN WALLS MAY BE THINWALL (E.M.T.) CONDUIT 1/2" MIN. SIZE.
- T. ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #12 & #10 SOLID, #8 AND LARGER STRANDED, #6 AND SMALLER TO BE TYPE THW, 600 VOLT INSULATION AND TYPE THW OR THHN FOR #4 AND LARGER. ALUM. CONDUCTORS MAY BE USED FOR 100A. AND LARGER ONLY WHERE USED WITH COMPRESSION TERMINATIONS.
- U. PROVIDE GROUNDING PER NATIONAL ELECTRIC CODE.
- V. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

ABBREVIATIONS

- AFF - ABOVE FINISHED FLOOR
- C - CONDUIT
- C/L - CENTERLINE
- EC - ELECTRICAL CONTRACTOR
- EF - EXHAUST FAN
- GND - GROUND CONDUCTOR
- GFI - GROUND FAULT PROTECTION
- LTC - LIGHTING
- LTS - LIGHTS
- RECEPT - RECEPTACLE
- UNO - UNLESS NOTED OTHERWISE
- WH - WATER HEATER
- WP - WEATHERPROOF
- AHU - AIR HANDLING UNIT
- NL - NIGHT LIGHT



Sheet List Table	
Sheet Number	Sheet Title
E1.0	LEGEND & NOTES
E1.1	ELECTRICAL DETAILS
E1.2	EXISTING PANEL & NEW MECH. EQUIP. SCHEDULES
E1.3	NEW PANEL SCHEDULES
E1.4	SINGLE LINE PARTIAL POWER RISERS
E1.5	LIGHTING CONTROLS AND FIXTURE SCHEDULE
E3.0	POWER PLAN & ELECTRICAL ROOMS
E3.1	POWER - ENLARGED ELECTRICAL ROOMS
E4.0	FIRE ALARM & SOUND SYSTEM PLAN
E5.0	ELECTRICAL - ROOF PLAN
E6.0	LIGHTING PLAN

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

2211 THOMAS DRIVE, SUITE 100
PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

Humber-Garik Consulting Engineers
142 Egan Parkway SE
Fort Walton Beach, Florida 32548
Email: jaram@hce.com
Ph: 850.243.8723 Fax: 850.864.5420
FL Authorization No. 00000900

1862
Job No.

PROJECT:
**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:
LEGEND & NOTES

SHEET NUMBER:
E1.0

EXISTING 'NORMAL'

PANELBOARD H1E		Voltage: 480Y/277V		Phase: 3φ		Wire: 4		Mounting: SURFACE	
		Mains: 250A MLO		NEMA Rating: 1		Options:			
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CKT NO.
1	LIG - ALL 1500'S (1600'S?)	---	20	1	2	20	---	SPARE	2
3	SPARE	---	20	1	1	20	---	SPARE	4
5	SPARE	---	20	1	1	20	---	SPARE	6
7	AHU-1-4 HEAT #2	438.32	70	3	3	70	42064	AHU-1-5 HEAT #2	8
9	---	---	---	---	---	---	---	---	10
11	---	---	---	---	---	---	---	---	12
13	AHU-1-4 HEAT #1	10600	20	3	3	15	9039	AHU-1-5 HEAT #1	14
15	---	---	---	---	---	---	---	---	16
17	---	---	---	---	---	---	---	---	18
19	AHU-1-4 SUPPLY FAN	7802	20	3	3	15	5561	AHU-1-5 SUPPLY FAN	20
21	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	24
25	PANEL H1F	8460	100	3	1	20	1150	F-TEB-1 & 2 EXHAUST FANS	26
27	---	---	---	---	---	---	---	---	28
29	---	---	---	---	---	---	---	---	30
31	TRANSFORMER FOR PANEL L1E	---	---	---	---	---	---	---	32
33	---	---	---	---	---	---	---	---	34
35	---	---	---	---	---	---	---	---	36
37	SURGE SUPPRESSOR	---	---	---	---	---	---	ESCALATOR	38
39	---	---	---	---	---	---	---	---	40
41	---	---	---	---	---	---	---	---	42
TOTAL CONNECTED LOAD:		128,508 VA	/	831	154.6 A	TOTAL AMPS			

* REMOVE EXISTING 20/1 BREAKER AND DELIVER TO OWNER

EXISTING 'EMERGENCY'

PANELBOARD HNE1E		Voltage: 480Y/277V		Phase: 3φ		Wire: 4		Mounting: SURFACE	
		Mains: 250A MLO		NEMA Rating: 1		Options:			
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CKT NO.
1	SPARE	---	20	1	1	20	---	SPARE	2
3	SPARE	---	20	1	1	20	---	SPARE	4
5	SPARE	---	20	1	1	20	---	SPARE	6
7	SPARE	---	20	1	1	20	---	SPARE	8
9	SPARE	---	20	1	1	20	---	SPARE	10
11	SPARE	---	20	1	1	20	---	SPARE	12
13	SPARE	---	20	1	1	20	---	SPARE	14
15	SPARE	---	20	1	1	20	---	SPARE	16
17	SPARE	---	20	1	1	20	---	SPARE	18
19	SPARE	---	20	1	1	20	---	SPARE	20
21	SPARE	---	20	1	1	20	---	SPARE	22
23	SPARE	---	20	1	1	20	---	SPARE	24
25	PANEL HNE1F	4740	100	3	1	20	---	SPARE	26
27	---	---	---	---	---	---	---	---	28
29	---	---	---	---	---	---	---	---	30
31	TRANSFORMER FOR PANEL LNE1E	---	---	---	---	---	---	ELEVATOR #4	32
33	---	---	---	---	---	---	---	---	34
35	---	---	---	---	---	---	---	---	36
37	SURGE SUPPRESSOR	---	---	---	---	---	---	---	38
39	---	---	---	---	---	---	---	---	40
41	---	---	---	---	---	---	---	---	42
TOTAL CONNECTED LOAD:		4,740 VA	/	831	5.7 A	TOTAL AMPS			

EXISTING 'LIFESAFETY'

PANELBOARD HLS1E		Voltage: 480Y/277V		Phase: 3φ		Wire: 4		Mounting: SURFACE	
		Mains: 100A MLO		NEMA Rating: 1		Options:			
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CKT NO.
1	SPARE	---	20	1	2	20	---	LIG - RM 1501 - 1504	2
3	SPARE	---	20	1	1	20	---	LIG - RM 1505	4
5	SPARE	---	20	1	1	20	---	SPARE	6
7	SPARE	---	20	1	1	20	---	SPARE	8
9	SPARE	---	20	1	1	20	---	SPARE	10
11	SPARE	---	20	1	1	20	---	SPARE	12
13	SPARE	---	20	1	1	20	---	SPARE	14
15	SPARE	---	20	1	1	20	---	SPARE	16
17	SPARE	---	20	1	1	20	---	SPARE	18
19	SPARE	---	20	1	1	20	---	SPARE	20
21	SPARE	---	20	1	1	20	---	SPARE	22
23	SPARE	---	20	1	1	20	---	SPARE	24
25	SPARE	---	20	1	1	20	---	SPARE	26
27	SPARE	---	20	1	1	20	---	SPARE	28
29	SPARE	---	20	1	1	20	---	SPARE	30
31	TRANSFORMER FOR PANEL LLS1E	---	---	---	---	---	---	PHASE 1 WORK	32
33	---	---	---	---	---	---	---	---	34
35	---	---	---	---	---	---	---	---	36
37	SURGE SUPPRESSOR	---	---	---	---	---	---	---	38
39	---	---	---	---	---	---	---	---	40
41	---	---	---	---	---	---	---	---	42
TOTAL CONNECTED LOAD:		1,333 VA	/	831	1.6 A	TOTAL AMPS			

MECHANICAL EQUIPMENT CIRCUIT DESIGN SCHEDULE

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

EQUIPMENT DESIGNATION	DESCRIPTION	VOLTAGE	RATED LOAD AMPS	MAXIMUM CIRCUIT OVERCURRENT PROTECTION	PROTECTION SPECIFIED	HEATER KW	HP	CFM	OPTIONS
AHU-1-4	ELECTRIC HEAT 2	480V 3φ	66 AMPS	70 AMPS	70/3	41.9	---	---	NONE
AHU-1-4	ELECTRIC HEAT 1	480V 3φ	16 AMPS	20 AMPS	20/3	10	---	---	NONE
AHU-1-4	SUPPLY FAN	480V 3φ	11.75 AMPS	20 AMPS	20/3	---	7 1/2	3785	NONE
AHU-1-5	ELECTRIC HEAT 2	480V 3φ	63.3 AMPS	70 AMPS	70/3	40.2	---	---	NONE
AHU-1-5	ELECTRIC HEAT 1	480V 3φ	13.6 AMPS	15 AMPS	15/3	8.5	---	---	NONE
AHU-1-5	SUPPLY FAN	480V 3φ	8.4 AMPS	15 AMPS	15/3	---	5	3630	NONE
F-TEB-1 & 2	EXHAUST FANS	115V	5 AMPS	20 AMPS	20/1	---	1/5	650	RUN CONTINUOUSLY
-	LIFT STATION	480/3	9.6 AMPS	20 AMPS	20/3	---	6	---	NONE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

PHASE:	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS			11/30/18
BID DOCUMENTS			1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

CONSULTANTS:
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Fort Walton Beach, Florida, 32548
www.hc-engineers.com
Ph: 850.243.8723 Fax: 850.664.5420
FL Authorization No. 05000990
1862 Job No.
Christopher A. Garick, FL PE No. 53604
Thomas A. Alexander, FL PE No. 73172
Danner J. White, FL PE No. 73170

PROJECT:

**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:
**EXISTING PANEL & NEW
MECH. EQUIP. SCHEDULES**

SHEET NUMBER:
E1.2

NEW 'NORMAL'

PANELBOARD H1F											
		Voltage: 480Y/277V		Phase: 3 ϕ		Wire: 4		Mounting: SURFACE			
		Mains: 100A MLO		AIC Rating: 22,000 MINIMUM							
		NEMA Rating: 1		Options: BOLT-ON BREAKERS							
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CONN LOAD	CKT NO.	
1	SPARE	---	20	1	1	20	---	SPARE	---	2	
3	SPARE	---	20	1	1	20	---	SPARE	---	4	
5	SPARE	---	20	1	1	20	---	SPARE	---	6	
7	SPARE	---	20	1	1	20	---	SPARE	---	8	
9	SPARE	---	20	1	1	20	---	SPARE	---	10	
11	SPARE	---	20	1	1	20	---	SPARE	---	12	
13	SPARE	---	20	1	1	20	---	SPARE	---	14	
15	SPARE	---	20	1	1	20	---	SPARE	---	16	
17	SPARE	---	20	1	1	20	---	SPARE	---	18	
19	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	20	
21	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	22	
23	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	24	
25	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	26	
27	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	28	
29	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	30	
31	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	32	
33	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	34	
35	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	36	
37	TRANSFORMER FOR PANEL L1F	8460	45	3	3	30	---	SURGE SUPPRESSOR	---	38	
39	----	----	----	----	----	----	----	----	----	40	
41	----	----	----	----	----	----	----	----	----	42	
		TOTAL CONNECTED LOAD: 8,460 VA		/ 831		10.2 A		TOTAL AMPS			

NEW 'NORMAL'

PANELBOARD L1F											
		Voltage: 208Y/120V		Phase: 3 ϕ		Wire: 4		Mounting: SURFACE			
		Mains: 100A MAIN BREAKER		AIC Rating: 14,000 MINIMUM							
		NEMA Rating: 1		Options: BOLT ON BREAKERS							
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CONN LOAD	CKT NO.	
1	SURGE SUPPRESSOR	---	30	3	1	20	---	SPARE	---	2	
3	----	---	---	---	1	20	---	SPARE	---	4	
5	----	---	---	---	1	20	---	SPARE	---	6	
7	FLOOR RECEPT - TERMINAL 102	1080	20	1	1	20	720	RECEPT - ELECT 105, MEN 108	---	8	
9	FLOOR RECEPT - TERMINAL 102	1080	20	1	1	20	900	RECEPT - WOMEN 104, FAMILY 103, EXTERIOR	---	10	
11	FLOOR RECEPT - TERMINAL 102	1080	20	1	1	20	900	RECEPT - TERM 102, RAMP 101, EXTERIOR, SEC/COMM	---	12	
13	FLOOR & WALL RECEPT - TERMINAL 102	900	20	1	1	20	900	RECEPT - TERMINAL 102	---	14	
15	RECEPT - TERMINAL 102	900	20	1	1	20	---	SPARE	---	16	
17	SPARE	---	20	1	1	20	---	SPARE	---	18	
19	SPARE	---	20	1	1	20	---	SPARE	---	20	
21	SPARE	---	20	1	1	20	---	SPARE	---	22	
23	SPARE	---	20	1	1	20	---	SPARE	---	24	
25	SPARE	---	20	1	1	20	---	SPARE	---	26	
27	SPARE	---	20	1	1	20	---	SPACE ONLY	---	28	
29	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	30	
31	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	32	
33	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	34	
35	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	36	
37	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	38	
39	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	40	
41	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	42	
		TOTAL CONNECTED LOAD: 8,460 VA		/ 360		23.5 A		TOTAL AMPS			

NEW 'EMERGENCY'

PANELBOARD HNE1F											
		Voltage: 480Y/277V		Phase: 3 ϕ		Wire: 4		Mounting: SURFACE			
		Mains: 100A MLO		AIC Rating: 22,000 MINIMUM							
		NEMA Rating: 1		Options: BOLT ON BREAKERS							
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CONN LOAD	CKT NO.	
1	SPARE	---	20	1	1	20	---	SPARE	---	2	
3	SPARE	---	20	1	1	20	---	SPARE	---	4	
5	SPARE	---	20	1	1	20	---	SPARE	---	6	
7	SPARE	---	20	1	1	20	---	SPARE	---	8	
9	SPARE	---	20	1	1	20	---	SPARE	---	10	
11	SPARE	---	20	1	1	20	---	SPARE	---	12	
13	SPARE	---	20	1	1	20	---	SPARE	---	14	
15	SPARE	---	20	1	1	20	---	SPARE	---	16	
17	SPARE	---	20	1	1	20	---	SPACE ONLY	---	18	
19	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	20	
21	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	22	
23	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	24	
25	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	26	
27	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	28	
29	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	30	
31	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	32	
33	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	34	
35	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	36	
37	TRANSFORMER FOR PANEL LNE1F	4740	45	3	3	30	---	SURGE SUPPRESSOR	---	38	
39	----	----	----	----	----	----	----	----	----	40	
41	----	----	----	----	----	----	----	----	----	42	
		TOTAL CONNECTED LOAD: 4,740 VA		/ 831		5.7 A		TOTAL AMPS			

NEW 'EMERGENCY'

PANELBOARD LNE1F											
		Voltage: 208Y/120V		Phase: 3 ϕ		Wire: 4		Mounting: SURFACE			
		Mains: 100A MAIN BREAKER		AIC Rating: 14,000 MINIMUM							
		NEMA Rating: 1		Options: BOLT ON BREAKERS							
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CONN LOAD	CKT NO.	
1	SURGE SUPPRESSOR	---	30	3	1	20	360	AIRLINE GATE CONSOLE	---	2	
3	----	---	---	---	1	20	720	RECEPT - ADS	---	4	
5	----	---	---	---	1	20	400	ACCESS CONTROL	---	6	
7	RECEPT - SEC/COMM	1080	20	1	1	20	1080	AIRLINE GATE CONSOLE	---	8	
9	RECEPT - ELECTRIC WATER COOLER (E.W.C.)	600	20	1	1	20	500	FIRE ALARM CONTROL PANEL	---	10	
11	SPARE	---	20	1	1	20	---	SPARE	---	12	
13	SPARE	---	20	1	1	20	---	SPARE	---	14	
15	SPARE	---	20	1	1	20	---	SPARE	---	16	
17	SPARE	---	20	1	1	20	---	SPARE	---	18	
19	SPARE	---	20	1	1	20	---	SPARE	---	20	
21	SPARE	---	20	1	1	20	---	SPARE	---	22	
23	SPARE	---	20	1	1	20	---	SPARE	---	24	
25	SPARE	---	20	1	1	20	---	SPARE	---	26	
27	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	28	
29	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	30	
31	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	32	
33	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	34	
35	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	36	
37	PANEL CP	11,000	60	3	1	---	---	SPACE ONLY	---	38	
39	----	----	----	----	----	----	----	----	----	40	
41	----	----	----	----	----	----	----	----	----	42	
		TOTAL CONNECTED LOAD: 4,751 VA		/ 360		13.2 A		TOTAL AMPS			

CONCESSION

PANELBOARD CP											
		Voltage: 208Y/120V		Phase: 3 ϕ		Wire: 4		Mounting: RECESSED			
		Mains: 60A MAIN LUGS ONLY		AIC Rating: 14,000 MINIMUM							
		NEMA Rating: 1		Options: BOLT ON BREAKERS							
CKT NO.	SERVING	CONN LOAD	CKT TRIP	BKR POLE	CKT POLE	BKR TRIP	CONN LOAD	SERVING	CONN LOAD	CKT NO.	
1	VENDING MACHINE	1000	20	1	1	20	1000	VENDING MACHINE	---	2	
3	VENDING MACHINE	1000	20	1	1	20	1000	VENDING MACHINE	---	4	
5	VENDING MACHINE	1000	20	1	1	20	1000	VENDING MACHINE	---	6	
7	VENDING MACHINE	1000	20	1	1	20	1000	VENDING MACHINE	---	8	
9	VENDING MACHINE	1000	20	1	1	20	1000	VENDING MACHINE	---	10	
11	SPARE	---	20	1	1	20	---	VENDING MACHINE	---	12	
13	SPARE	---	20	1	1	20	---	SPARE	---	14	
15	SPARE	---	20	1	1	20	---	SPARE	---	16	
17	SPARE	---	20	1	1	20	---	SPARE	---	18	
19	SPARE	---	20	1	1	20	---	SPARE	---	20	
21	SPARE	---	20	1	1	20	---	SPARE	---	22	
23	SPACE ONLY	---	---	1	1	---	---	SPACE ONLY	---	24	
25	SPACE ONLY	---	---	1	3	30	---	SURGE SUPPRESSOR	---	26	
27	SPACE ONLY	---	---	1	---	---	---	----	----	28	
29	SPACE ONLY	---	---	1	---	---	---	----	----	30	
		TOTAL CONNECTED LOAD: 11,000 VA		/ 360		30.6 A		TOTAL AMPS			

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PHASE:	DRAWN	CHECKED	DATE	
CONSTRUCTION DOCUMENTS			11/30/18	
BID DOCUMENTS			1/29/2019	

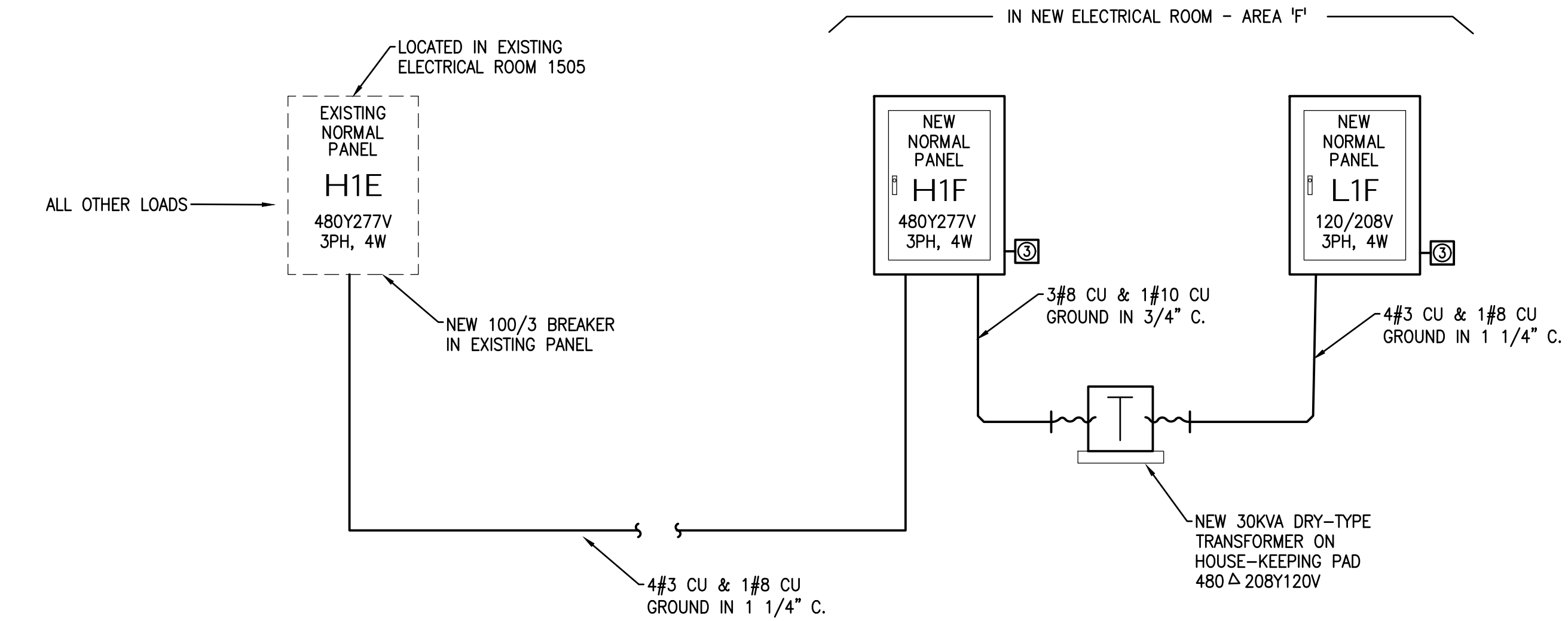
JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100 PANAMA CITY BEACH, FLORIDA 32548
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Commission Number: 18771

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	Christopher A. Garick, FL PE No. 53924 Thomas A. Alexander, FL PE No. 73172 Danner J. White, FL PE No. 73170	

PROJECT:
PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

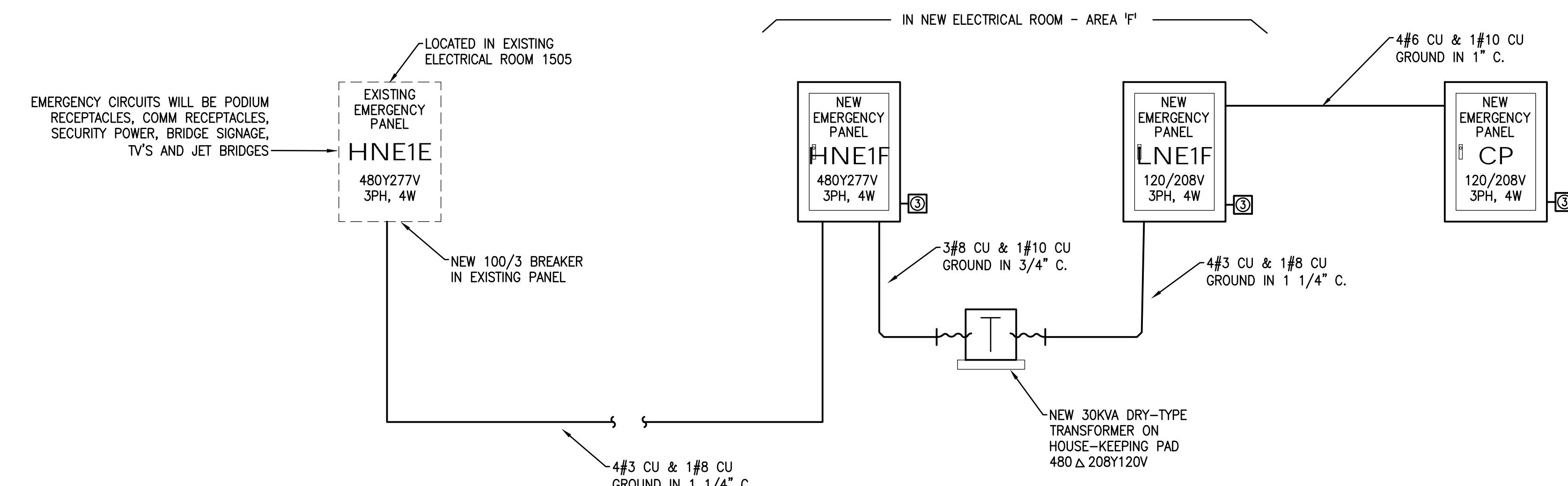
SHEET TITLE:
NEW PANEL SCHEDULES

SHEET NUMBER:
E13



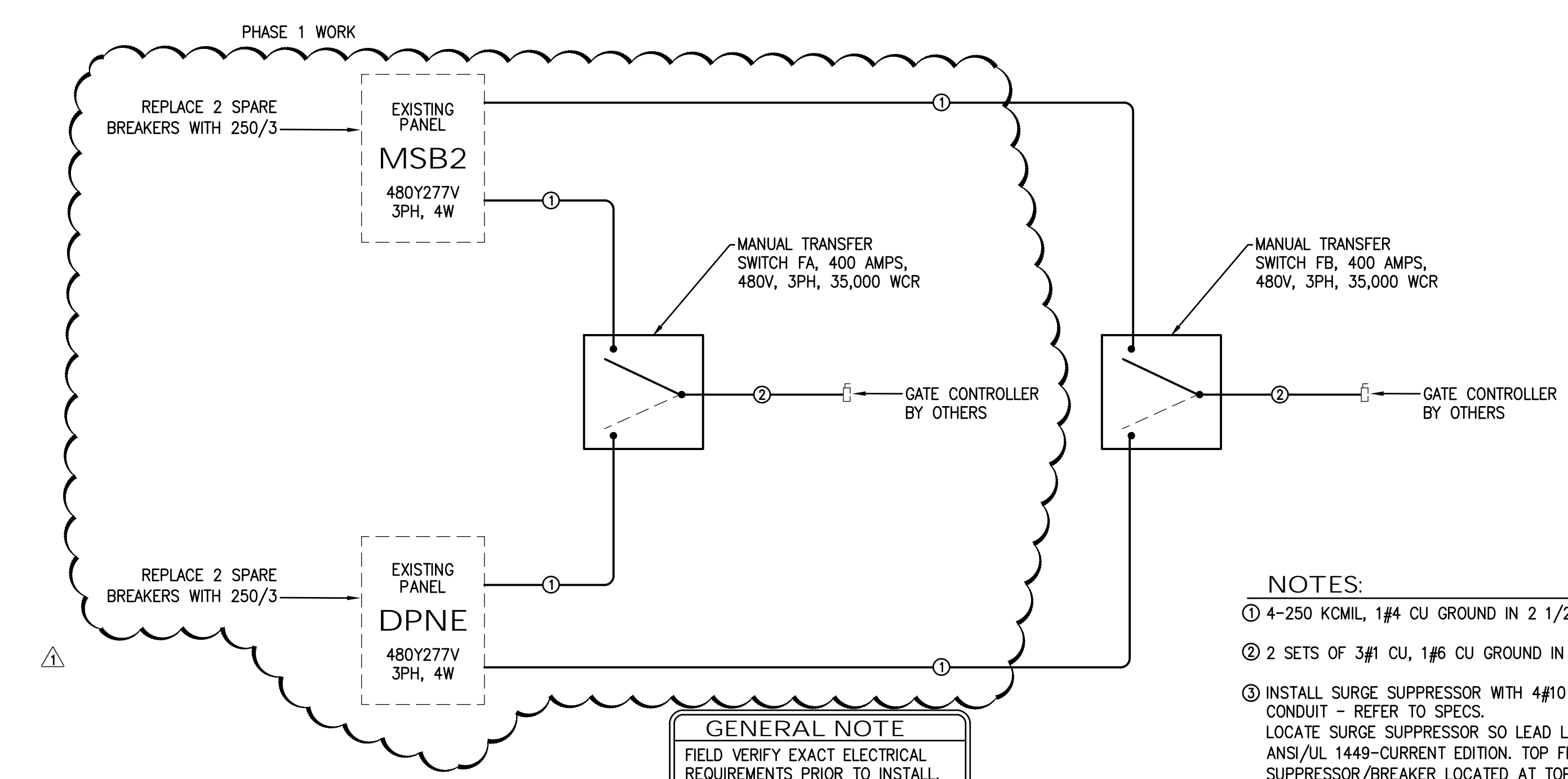
PARTIAL 'NORMAL' POWER RISER

NOT TO SCALE



PARTIAL 'EMERGENCY' POWER RISER

NOT TO SCALE



PARTIAL 'GATE' POWER RISER

NOT TO SCALE

NOTES:

- ① 4-250 KOMIL, 1#4 CU GROUND IN 2 1/2" CONDUIT.
- ② 2 SETS OF 3#1 CU, 1#6 CU GROUND IN 1 1/2" CONDUIT.
- ③ INSTALL SURGE SUPPRESSOR WITH 4#10 CU & 1#10 CU GROUND IN 3/4" CONDUIT - REFER TO SPECS.
LOCATE SURGE SUPPRESSOR SO LEAD LENGTH DOES NOT EXCEED 14" PER ANS/UL 1449-CURRENT EDITION. TOP FED PANELS SHALL HAVE SURGE SUPPRESSOR/BREAKER LOCATED AT TOP OF PANEL. BOTTOM FED PANELS SHALL HAVE SURGE SUPPRESSOR/BREAKER LOCATED AT BOTTOM OF PANEL.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

PHASE:

	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS			11/30/18
BID DOCUMENTS			1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100
PANAMA CITY BEACH, FLORIDA
PHONE: (850) 236-9832
Commission Number: 18771

ENGINEERS Humber-Garick Consulting Engineers
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Fort Walton Beach, Florida, 32548
Email: jgarick@hgc.com
PH: 850.243.8723 Fax: 850.864.5420
FL Authorization No. 05000900

1862
Job No.

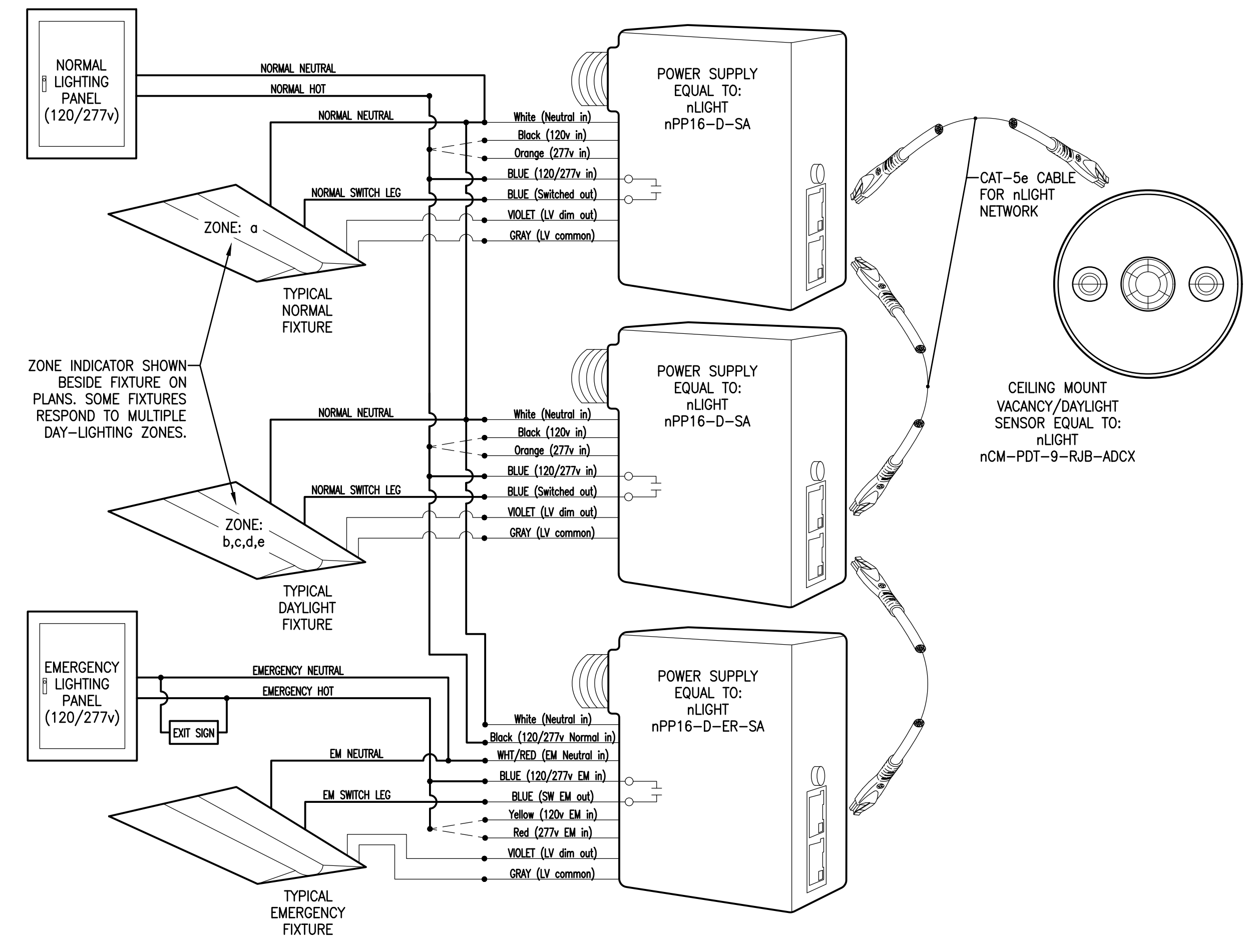
PROJECT:
**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:
**SINGLE LINE
PARTIAL POWER
RISERS**

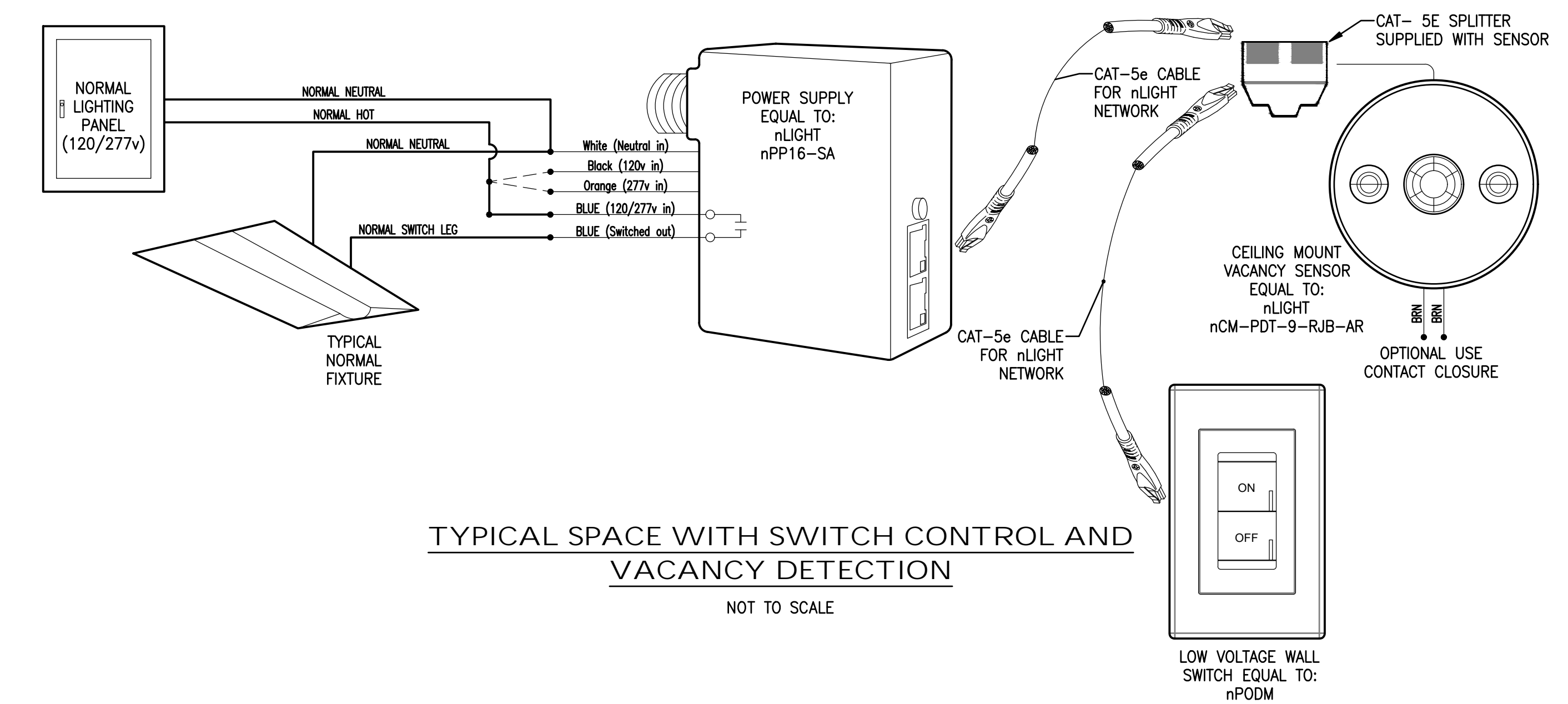
SHEET NUMBER:
E1.4

Lighting Fixture Schedule										
Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (va)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments	Luminaire Equals
DL	H.E. WILLIAMS	6AR-L20-8-40-UNV-L-M-QF-WH-N	277	21	LED	80	4000	RECESSED	RECESSED CAN LIGHT.	PHILIPS, HUBBEL, LITHONIA
L4	H.E. WILLIAMS	LXR-G-4-L8-S-ADRV-277	277	31	LED	80	4000	RECESSED	RECESSED SLOT FIXTURE.	PHILIPS, HUBBEL, LITHONIA
L4S	H.E. WILLIAMS	LX4S-4-L8-S-ADR-277	277	31	LED	80	4000	RECESSED	SURFACE MOUNTED SLOT FIXTURE.	PHILIPS, HUBBEL, LITHONIA
SL	MARK ARCHITECTURAL	SL2L-L0P-4FT-FLP-GB-80CRI-40K-400LMF-NODIM-277	277	32	LED	80	4000	RECESSED	RECESSED CONTINUOUS LED SLOT FIXTURE.	PHILIPS, HUBBEL, LITHONIA
VT	ILLUMINA	ISS100LED-4-HT-WT40-120-277-CH-SS-CL	277	60	LED	80	4000	PENDANT	INDUSTRIAL VAPOR PROOF FIXTURE.	LITHONIA, HUBBEL, PHILIPS
X	LITHONIA PATHWAY	PDLXJR-DL	277V		LED			TOP, END OR BACK	UNIVERSAL SINGLE/DOUBLE FACE LED EXIT SIGN WITH LED BAR DOWNLIGHT, OFF-WHITE ABS PLASTIC HOUSING, RED STENCIL FACE, MAINTENANCE FREE NI-CAD BATTERY, SOLID STATE CHARGER, CHARGE INDICATOR LIGHT, PUSH-TO-TEST SWITCH, 120/277V CIRCUIT.	BEGHELLI BREZZA OR ISOLITE
CP	LUMINAIRE LED	LVP522-15-CC-CP-WET-TXSD	277V	15	LED	80	4000	SURFACE	SURFACE MOUNTED FIXTURE.	PHILIPS, HUBBEL, LITHONIA
CPE	LUMINAIRE LED	LVP522-15-CC-CP-WET-TXSD	277V	15	LED	80	4000	SURFACE	SURFACE MOUNTED FIXTURE CONNECTED TO EMERGENCY CIRCUIT.	PHILIPS, HUBBEL, LITHONIA

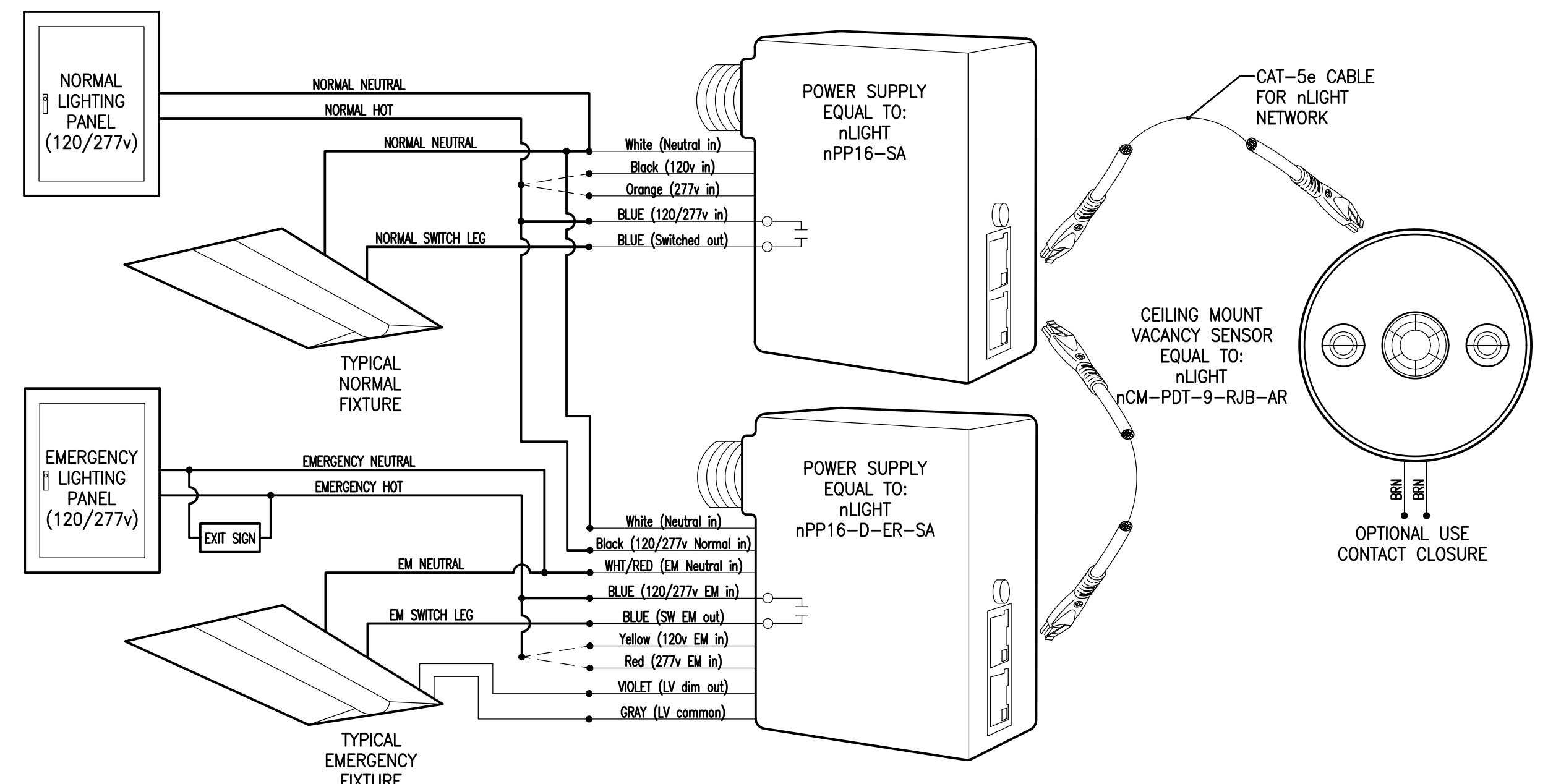
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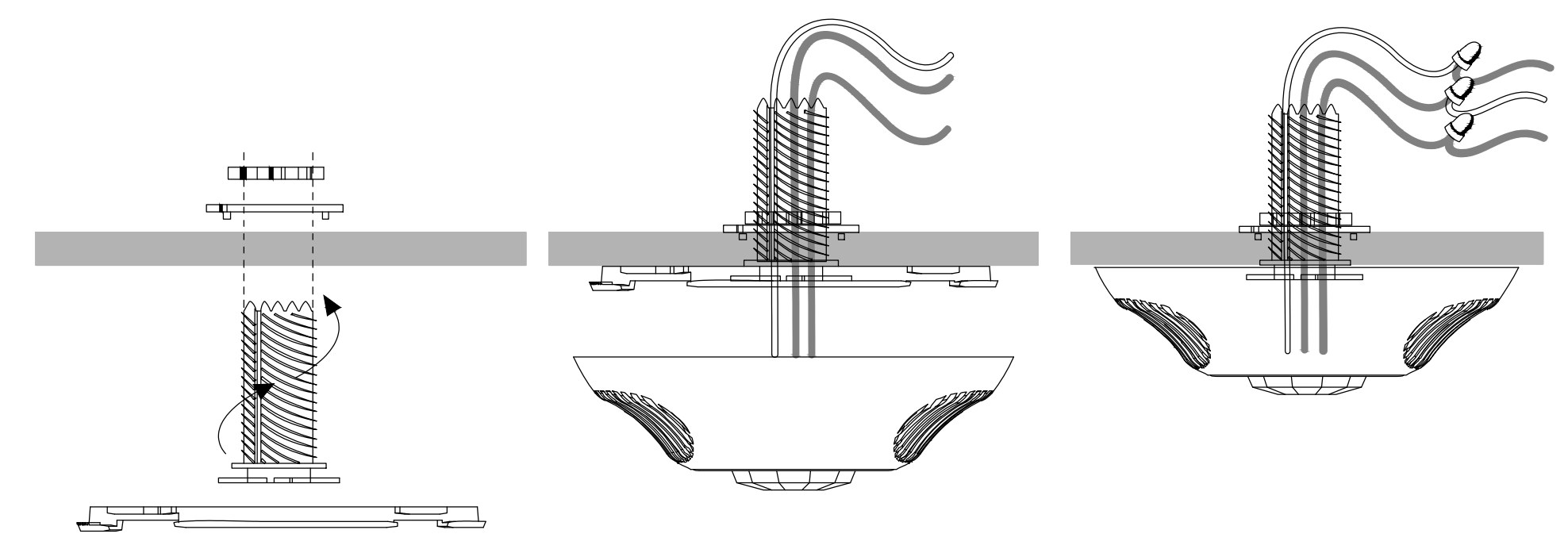
AIRPORT TERMINAL CONTROL WITH DAYLIGHT HARVESTING AND LIFE SAFETY
NOT TO SCALE



TYPICAL SPACE WITH SWITCH CONTROL AND VACANCY DETECTION
NOT TO SCALE



RESTROOM WITH OCCUPANCY ON/OFF CONTROL AND LIFE SAFETY
NOT TO SCALE



OCCUPANCY SENSOR MOUNTING DETAIL
NOT TO SCALE

LIGHTING CONTROLS AND FIXTURE SCHEDULE
1/8" = 1'-0"



REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

PHASE:	DRAWN	CHECKED	DATE
CONSTRUCTION DOCUMENTS			11/30/18
BID DOCUMENTS			1/29/2019

JRA Architects, Inc. 2211 THOMAS DRIVE, SUITE 100 PANAMA CITY BEACH, FLORIDA PHONE: (850) 236-9832 Commission Number: 18771

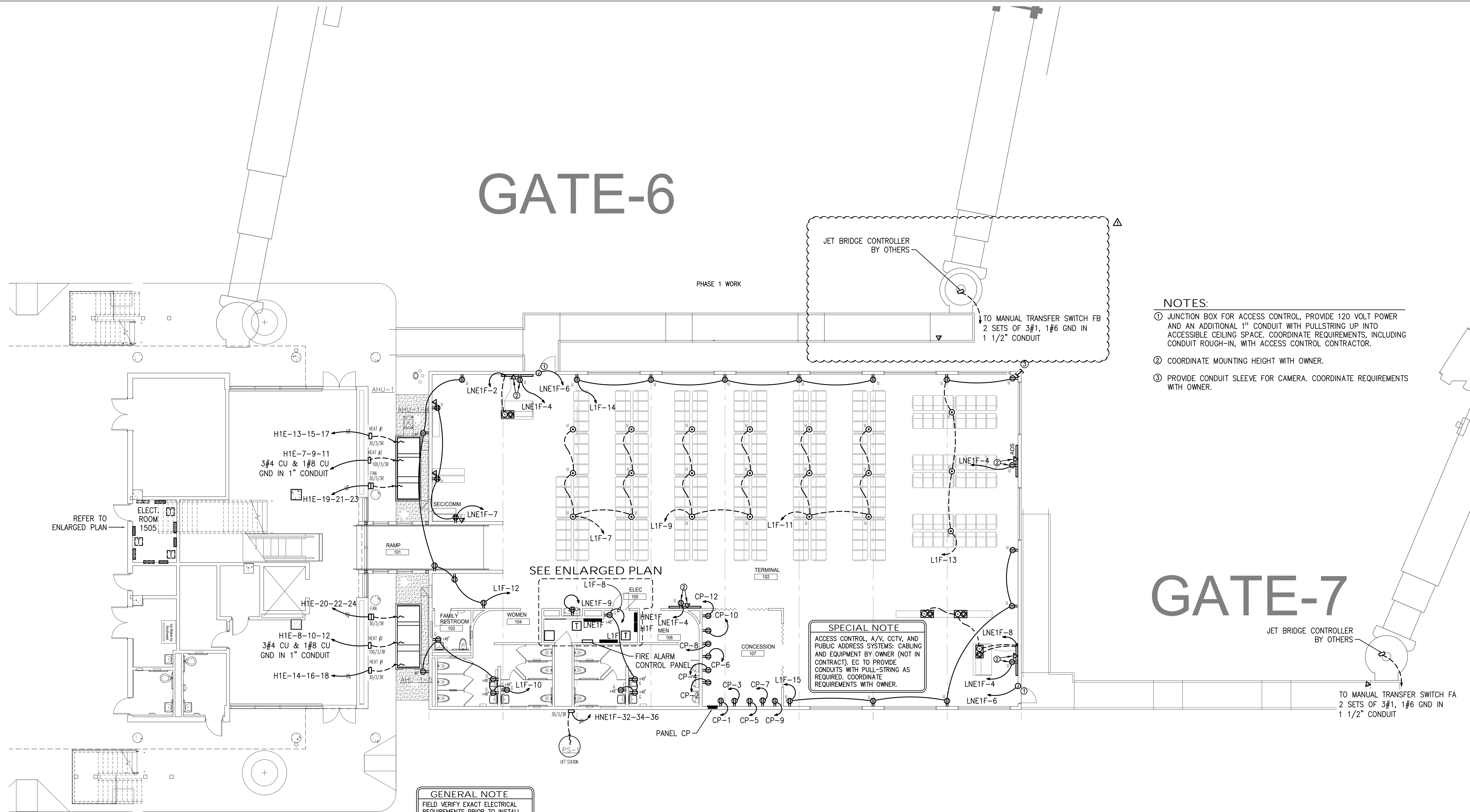
CONSULTANTS: Humber-Garick Consulting Engineers 142 Egan Parkway SE Fort Walton Beach, Florida, 32548 Phone: 850.243.8723 Fax: 850.664.5420 P. Authorization No. 05000990 1862 Job No.

PROJECT: PANAMA CITY TERMINAL EXPANSION PANAMA CITY, FLORIDA

SHEET TITLE: LIGHTING CONTROLS AND FIXTURE SCHEDULE

SHEET NUMBER: E.15

GATE-6



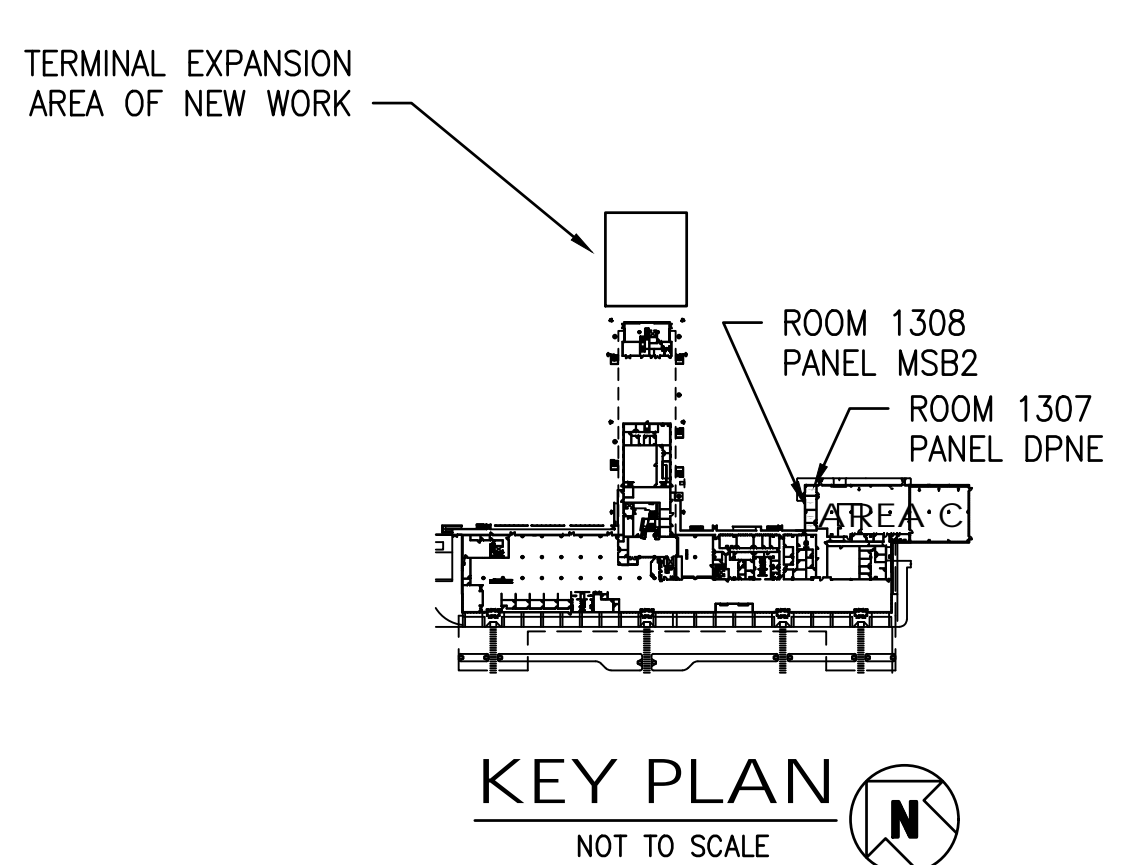
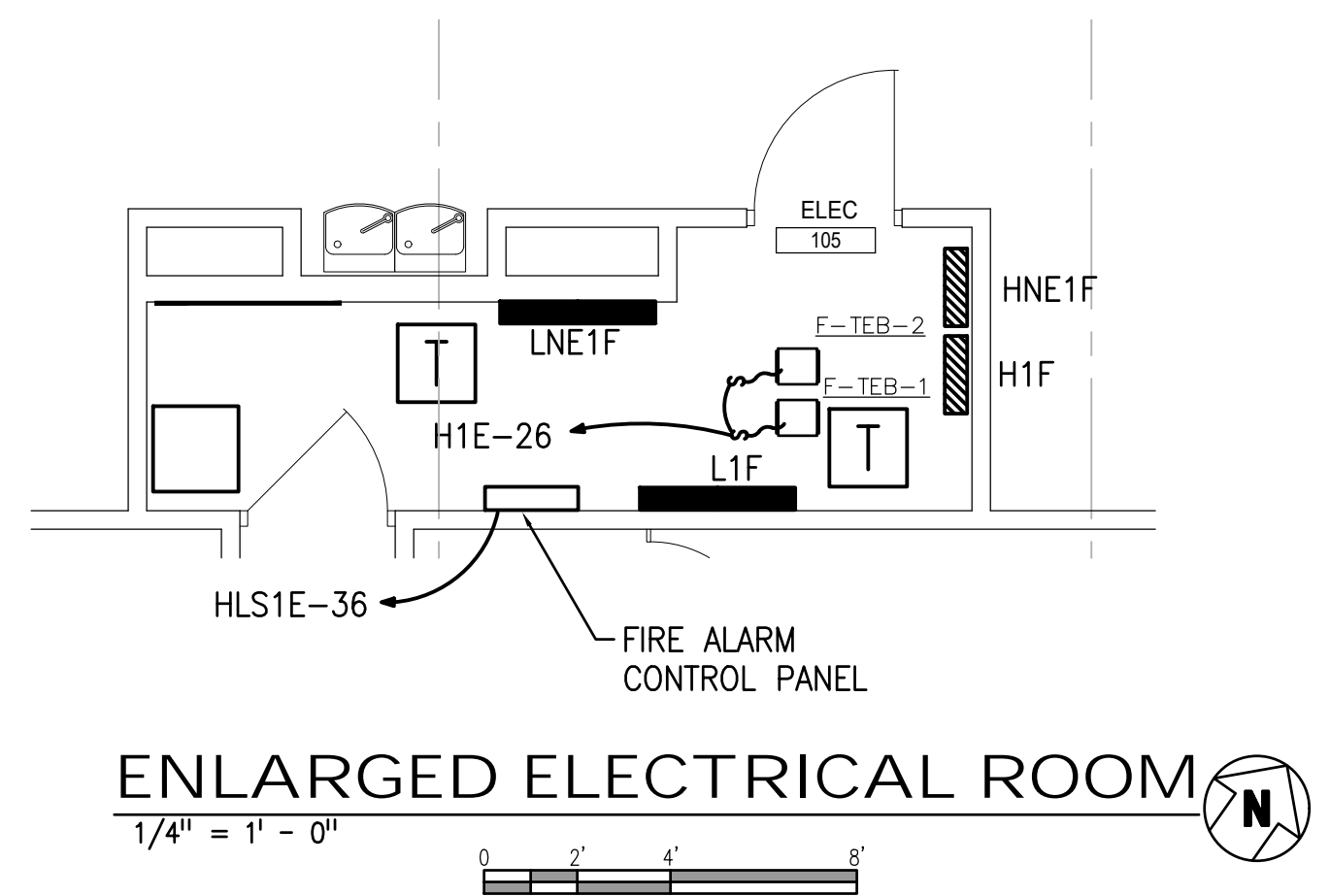
- NOTES:**
- ① JUNCTION BOX FOR ACCESS CONTROL, PROVIDE 120 VOLT POWER AND AN ADDITIONAL 1" CONDUIT WITH PULLSTRING UP INTO ACCESSIBLE CEILING SPACE. COORDINATE REQUIREMENTS, INCLUDING CONDUIT ROUGH-IN, WITH ACCESS CONTROL CONTRACTOR.
 - ② COORDINATE MOUNTING HEIGHT WITH OWNER.
 - ③ PROVIDE CONDUIT SLEEVE FOR CAMERA. COORDINATE REQUIREMENTS WITH OWNER.

GATE-7

SPECIAL NOTE
ACCESS CONTROL, A/V, CCTV, AND PUBLIC ADDRESS SYSTEMS: CABLING AND EQUIPMENT BY OWNER (NOT IN CONTRACT). EC TO PROVIDE CONDUITS WITH PULL-STRING AS REQUIRED. COORDINATE REQUIREMENTS WITH OWNER.

GENERAL NOTE
FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS PRIOR TO INSTALL.

OVERALL ELECTRICAL POWER PLAN
1/8" = 1'-0"



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PHASE:

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BID DOCUMENTS			1/29/2019

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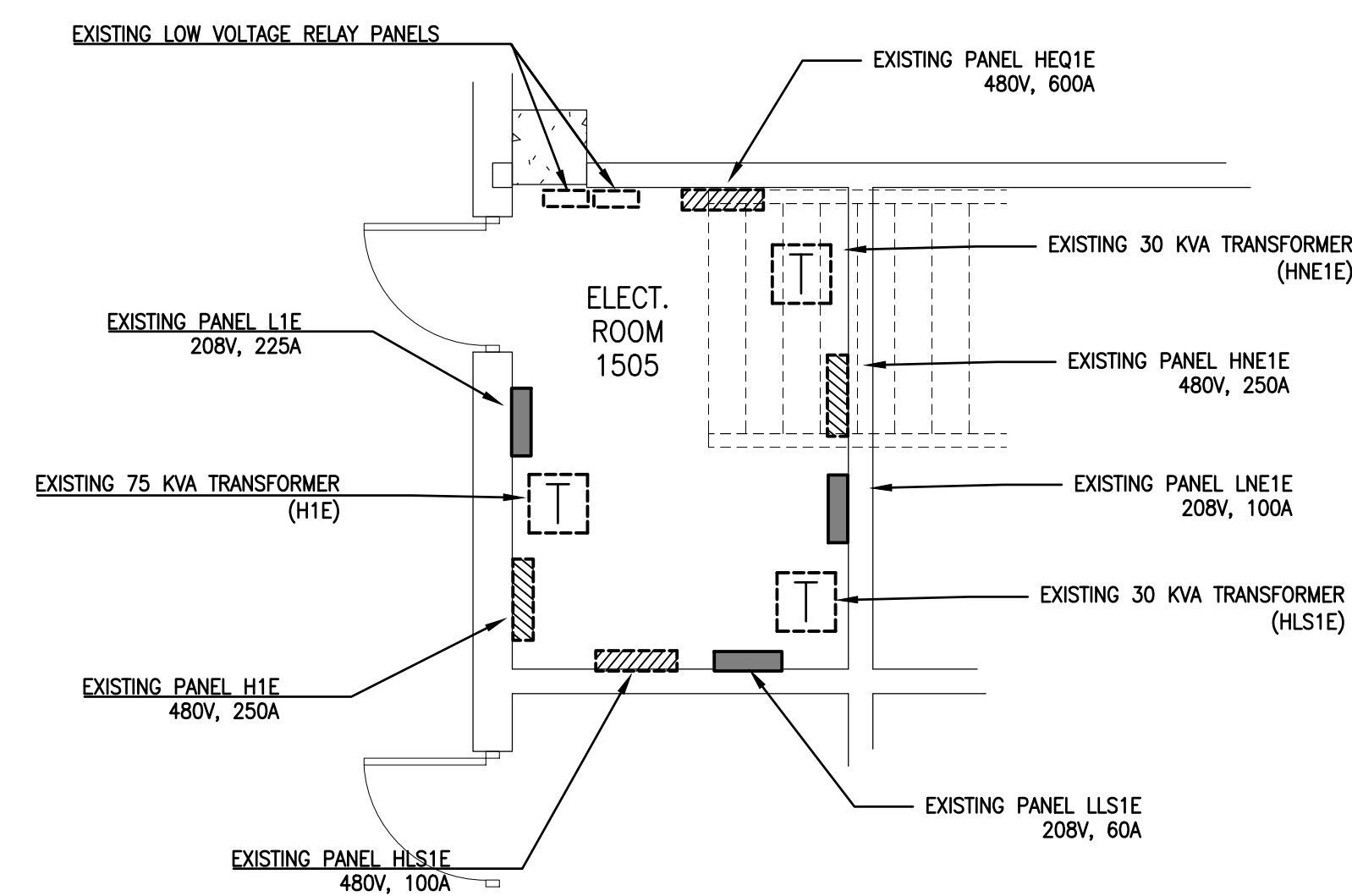
1862
Job No.

Christopher A. Garick - FL PE No. 03604
Thomas A. Alexander - FL PE No. 73172
Danner J. White - FL PE No. 73170

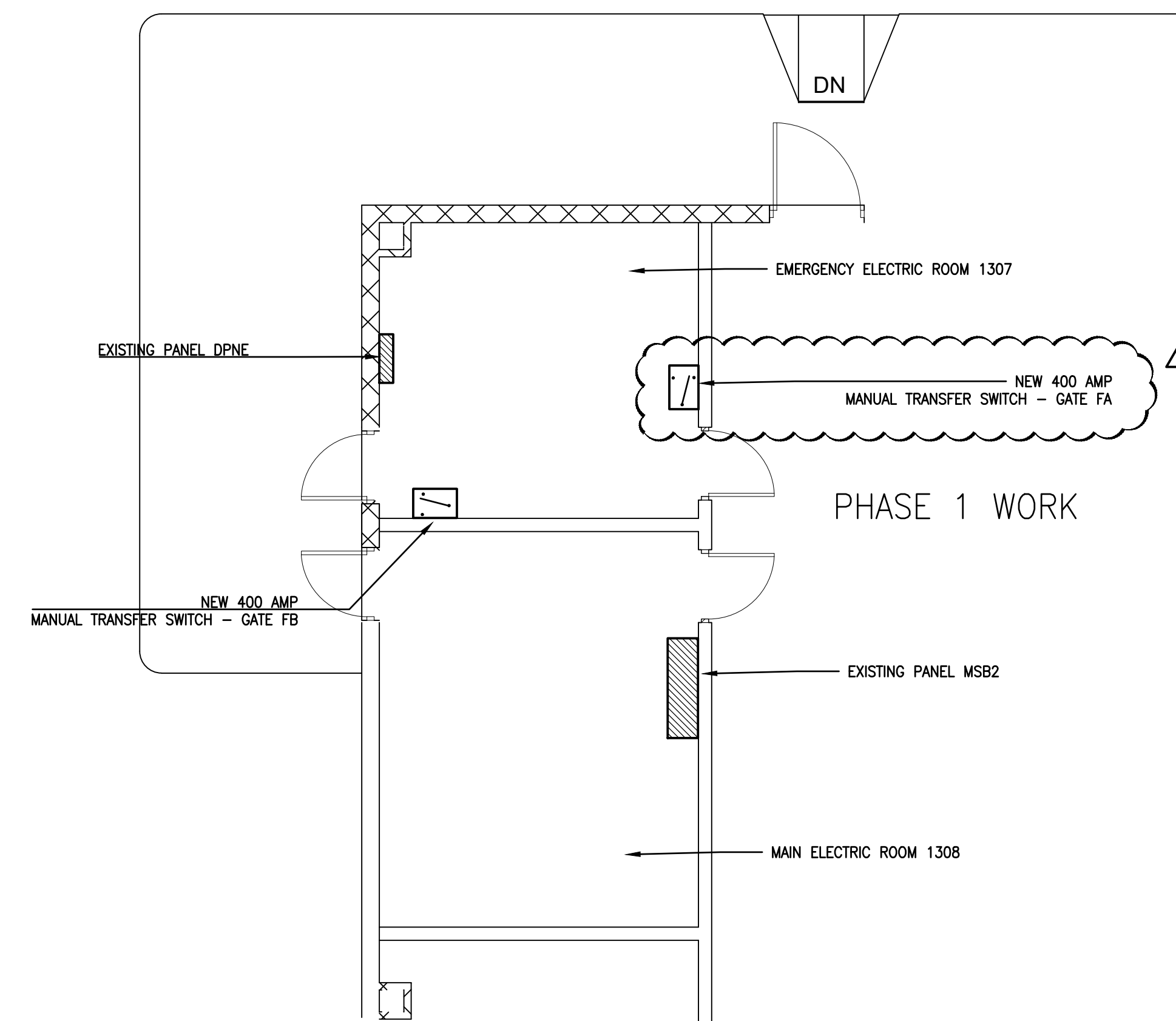
PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

POWER PLAN & ELECTRICAL ROOMS

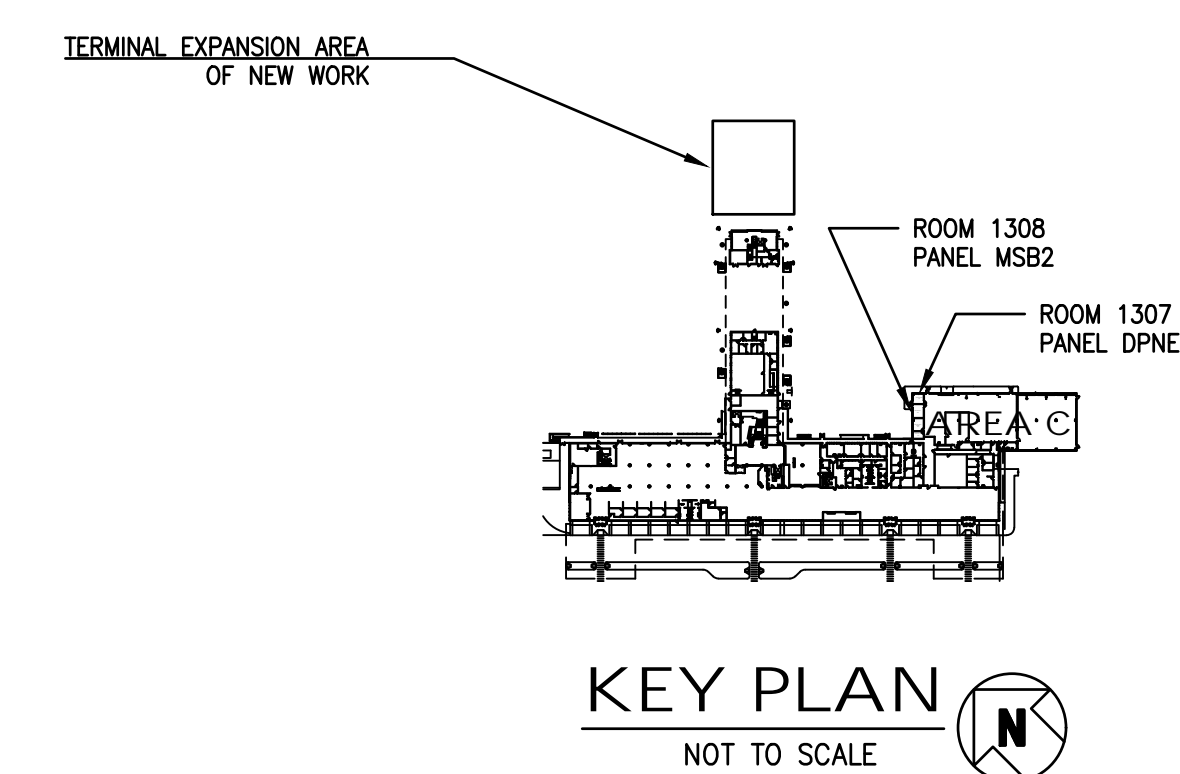
SHEET NUMBER:
E3.0



ENLARGED ELECTRICAL ROOM 1505
NEW TERMINAL 102
NOT TO SCALE



ENLARGED ELECTRICAL ROOMS 1307 & 1308
EXISTING AREA C
NOT TO SCALE



KEY PLAN
NOT TO SCALE

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Commission Number: 18771

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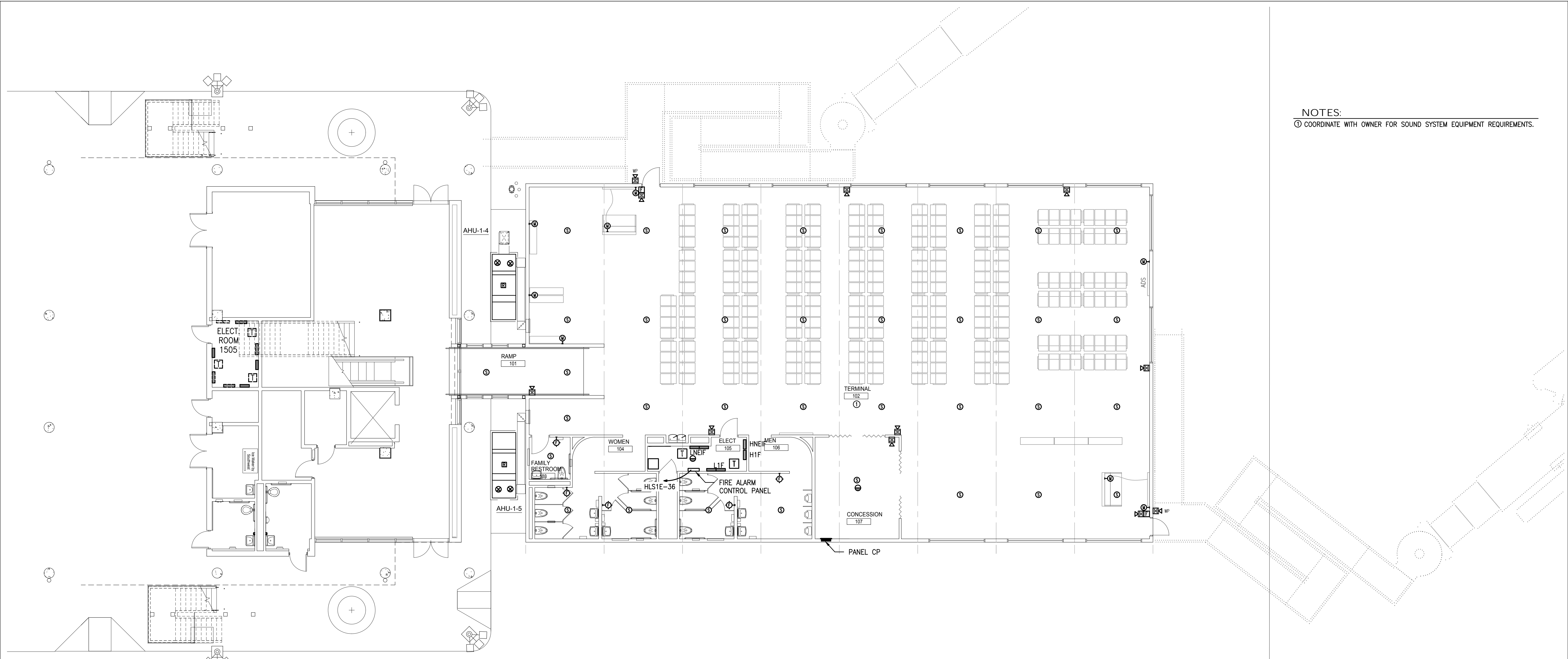
HGC ENGINEERS
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Job No.

PROJECT:
**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

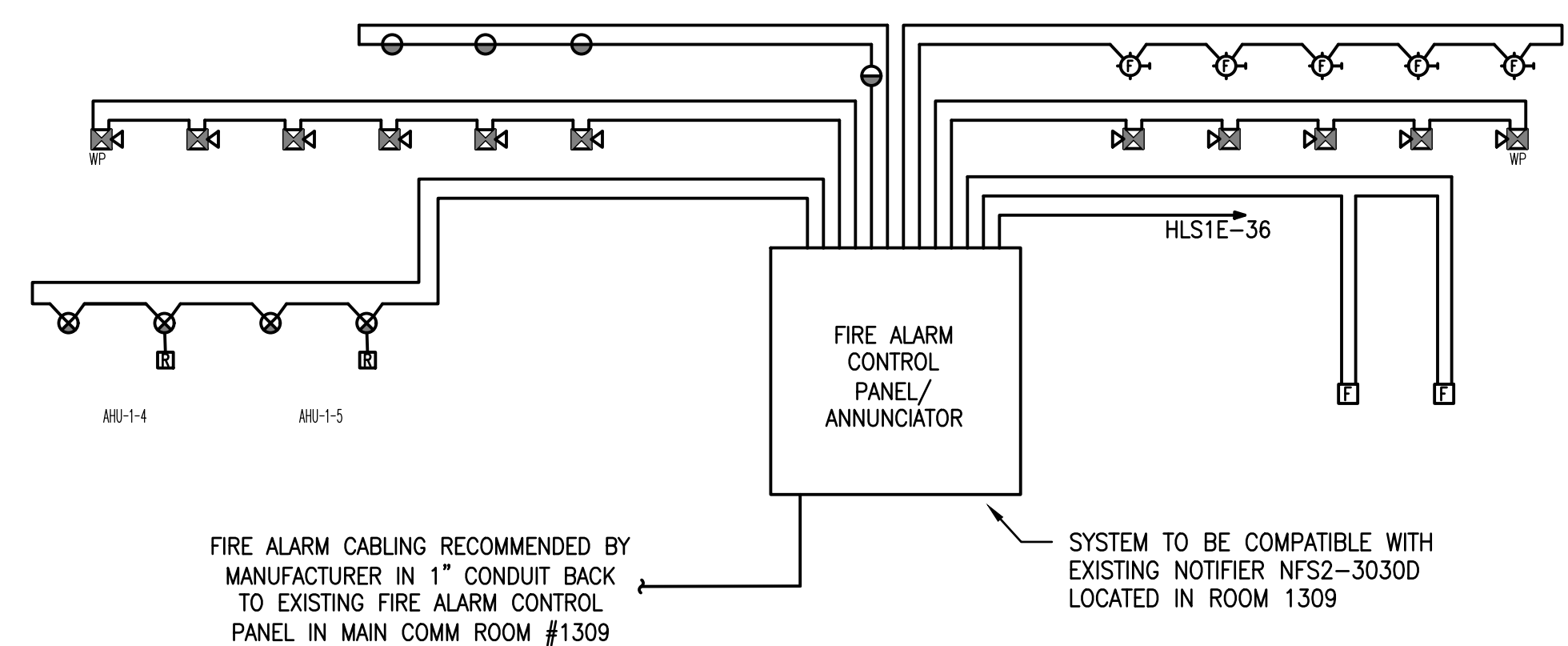
SHEET TITLE:
**POWER -
ENLARGED
ELECTRICAL
ROOMS**

SHEET NUMBER:
E3.1



NOTES:
 ① COORDINATE WITH OWNER FOR SOUND SYSTEM EQUIPMENT REQUIREMENTS.

FIRE ALARM & SOUND SYSTEMS PLAN
 1/8" = 1'-0"



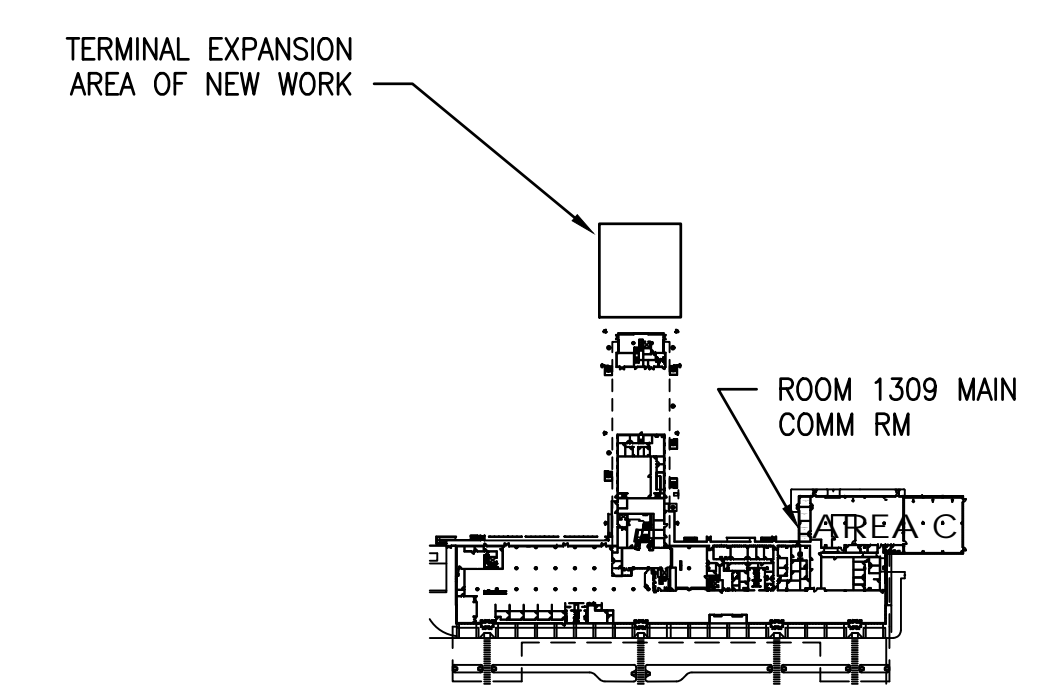
FIRE ALARM CABLING RECOMMENDED BY MANUFACTURER IN 1" CONDUIT BACK TO EXISTING FIRE ALARM CONTROL PANEL IN MAIN COMM ROOM #1309

SYSTEM TO BE COMPATIBLE WITH EXISTING NOTIFIER NFS2-3030D LOCATED IN ROOM 1309

FIRE ALARM SYSTEM RISER
 NOT TO SCALE

FIRE ALARM RISER GENERAL NOTES

- A. THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR DEVICE QUANTITIES AND LOCATIONS.
- B. THE RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWING AND WIRING DIAGRAMS.
- C. VERIFY LOCATIONS AND QUANTITIES OF FLOW AND TAMPER SWITCHES WITH SPRINKLER CONTRACTOR.
- D. PROVIDE ADDITIONAL MONITOR AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
- E. FIRE ALARM SYSTEM SHALL HAVE U/L APPROVED DIGITAL ALARM DIALER/COMMUNICATOR TO SEND ALARM SIGNAL TO MONITORING SERVICE.



KEY PLAN
 NOT TO SCALE

REVISIONS:

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PHASE: CONSTRUCTION DOCUMENTS DRAWN: 11/30/18 CHECKED: DATE: 1/29/2019

BID DOCUMENTS 1/29/2019

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HGC ENGINEERS Humber-Garick Consulting Engineers 142 Edgemoor Parkway SE Fort Walton Beach, Florida 32548 Email: jaram@hgc.com Ph: 850.243.8723 Fax: 850.864.5420 FL Authorization No. 00000950 1862 Job No.

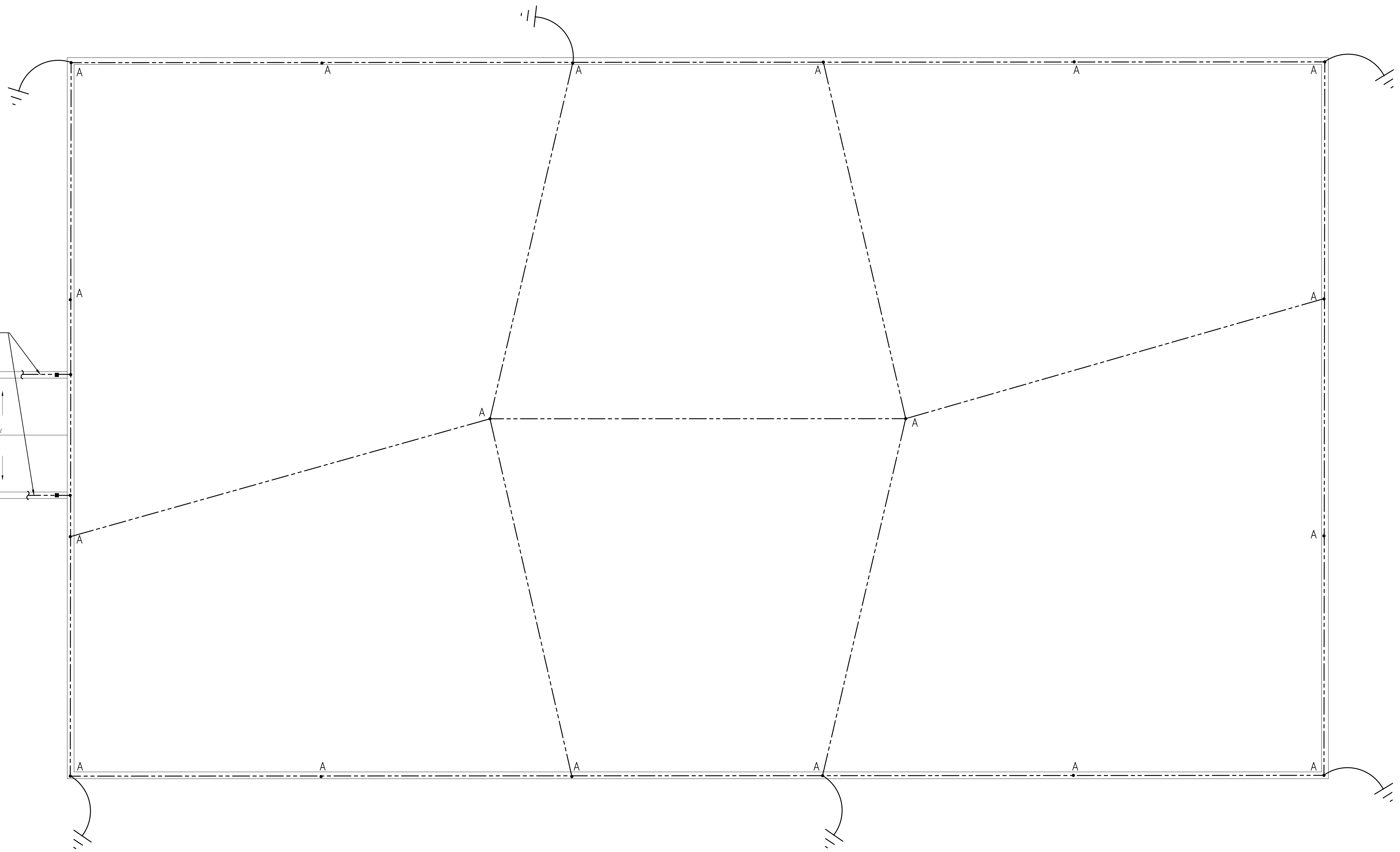
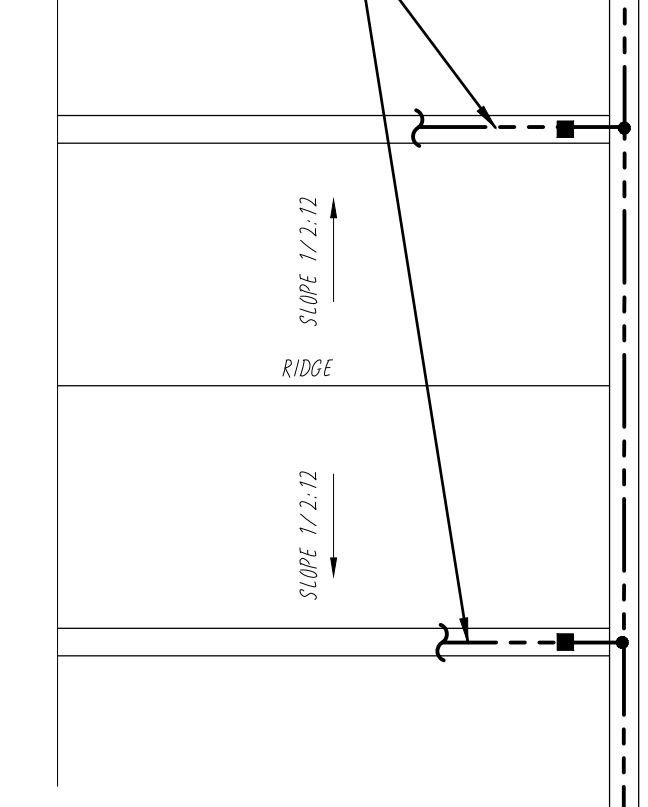
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 Thomas A. Alexander, FL PE No. 73172
 Tanner J. White, FL PE No. 73790

PROJECT:
PANAMA CITY TERMINAL EXPANSION
 PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE ALARM & SOUND SYSTEM PLAN

SHEET NUMBER:
E4.0

CONNECT TO EXISTING
TERMINAL LIGHTNING
PROTECTION SYSTEM



ELECTRICAL - ROOF PLAN
1/4" = 1'-0"

LIGHTNING PROTECTION SYSTEM NOTES:

1. INSTALL U.L. MASTER LABEL LIGHTNING PROTECTION SYSTEM WITH AIR TERMINALS ON PERIMETER OF ROOF AT 25 FEET MAXIMUM SPACING. SPACING FOR AIR TERMINALS WITHIN PERIPHERY IS 50 FEET MAXIMUM. SPACING FOR DOWN CONDUCTORS IS ONE PER 100 FEET OF PERIMETER. INSTALL 10 FOOT MINIMUM X 3/4" DIAMETER COPPER CLAD STEEL DRIVEN GROUND ROD AT EACH DOWN CONDUCTOR. REFER TO SPECIFICATIONS.
2. BOND TO METAL BODIES OF CONDUCTANCE ON ROOF WITH MAIN SIZE CONDUCTORS AS REQUIRED BY NFPA, U.L. AND ETL CODES. THESE BONDS INCLUDE BUT ARE NOT LIMITED TO EXHAUST FANS, VENTS, HANDRAILS, METAL SCREENS AND PANELS, H.V.A.C. UNITS, HATCHES, SKYLIGHTS, COOLING TOWERS, FLAG POLES, ANTENNAS, ETC. OR ANY LARGE METAL BODY SUBJECT TO DIRECT STROKE OR WHICH EXCEEDS THE HEIGHT OF ADJACENT AIR TERMINALS.
3. ALUMINUM MATERIALS SHALL NOT BE USED IN DIRECT CONTACT WITH EARTH. CONNECTION OF ALUMINUM DOWN CONDUCTORS TO COPPER SHALL BE MADE AT A POINT NO LESS THAN 18" ABOVE GRADE LEVEL. FITTINGS CONNECTING THE ALUMINUM DOWN CONDUCTORS TO COPPER SHALL BE OF THE BIMETALLIC TYPE SPECIALLY DESIGNED AND APPROVED FOR MAKING CONNECTIONS BETWEEN THE DISSIMILAR METALS. REFER TO SPECIFICATIONS.
4. LIGHTNING PROTECTION SYSTEM GROUND RODS SHALL BE BONDED TO THE BUILDING SERVICE ENTRANCE GROUND IN ACCORDANCE WITH N.E.C. 250.106.

LIGHTNING PROTECTION SYSTEM SYMBOLS

- LIGHTNING PROTECTION SYSTEM AIR TERMINAL, 5/8" DIA x 24" HIGH MIN.
- LIGHTNING PROTECTION SYSTEM ROOF CONDUCTOR, #3/0 COPPER OR 250MCM ALUMINUM.
- LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR, #3/0 COPPER AND 5/8" DIA x 10 FT MIN. COPPER CLAD STEEL DRIVEN GROUND ROD.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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BID DOCUMENTS			1/29/2019

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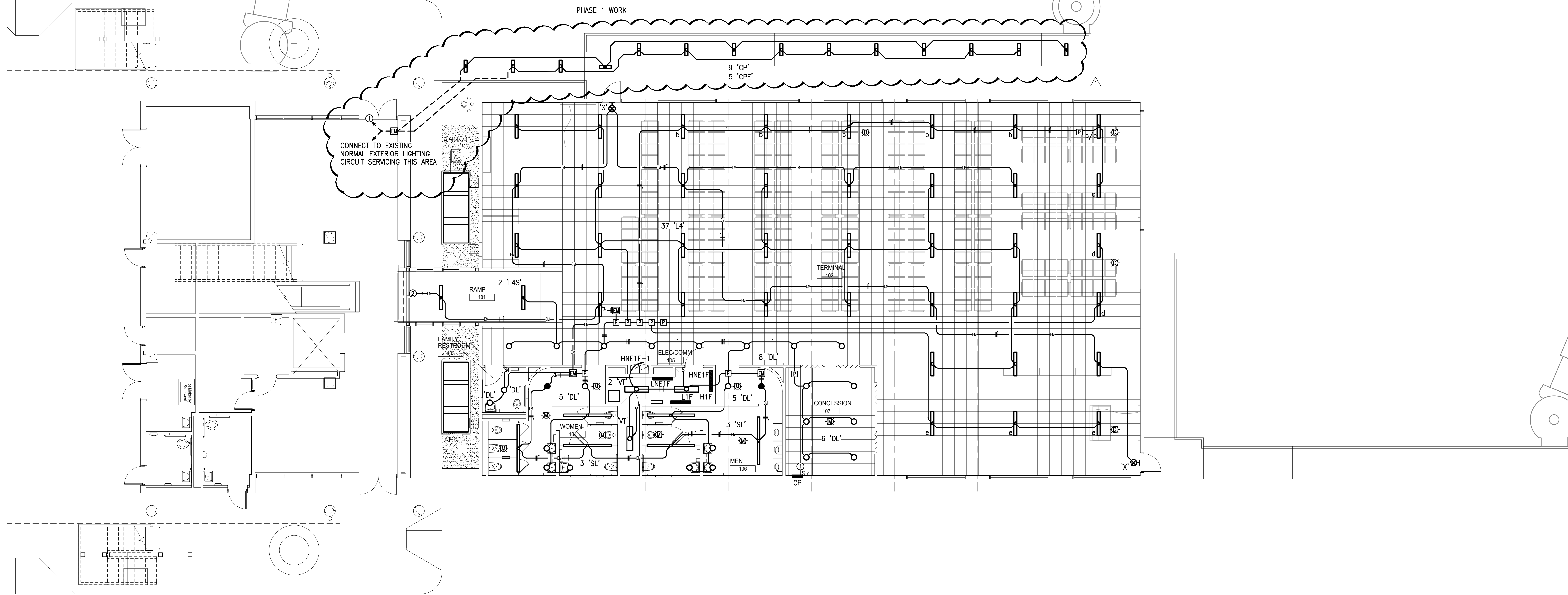
PROJECT:
**PANAMA CITY
TERMINAL EXPANSION**
PANAMA CITY, FLORIDA

SHEET TITLE:
**ELECTRICAL -
ROOF PLAN**

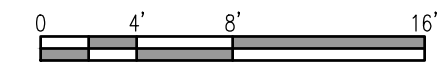
SHEET NUMBER:
E5.0

KEYNOTES

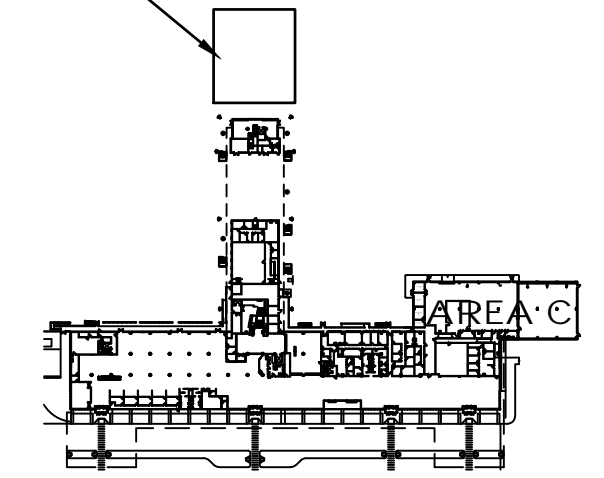
- ① HOMERUN CIRCUIT TO PANEL HLSE1 IN ELECTRIC ROOM 1505. INSTALL 20/1 BREAKER FOR CIRCUIT.



LIGHTING PLAN
1/8" = 1'-0"



TERMINAL EXPANSION AREA OF NEW WORK



KEY PLAN
NOT TO SCALE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	PHASE 1 WORK			06/11/19

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CONSTRUCTION DOCUMENTS			11/30/18
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PROJECT:

PANAMA CITY TERMINAL EXPANSION
PANAMA CITY, FLORIDA

SHEET TITLE:

LIGHTING PLAN

SHEET NUMBER:

E6.0