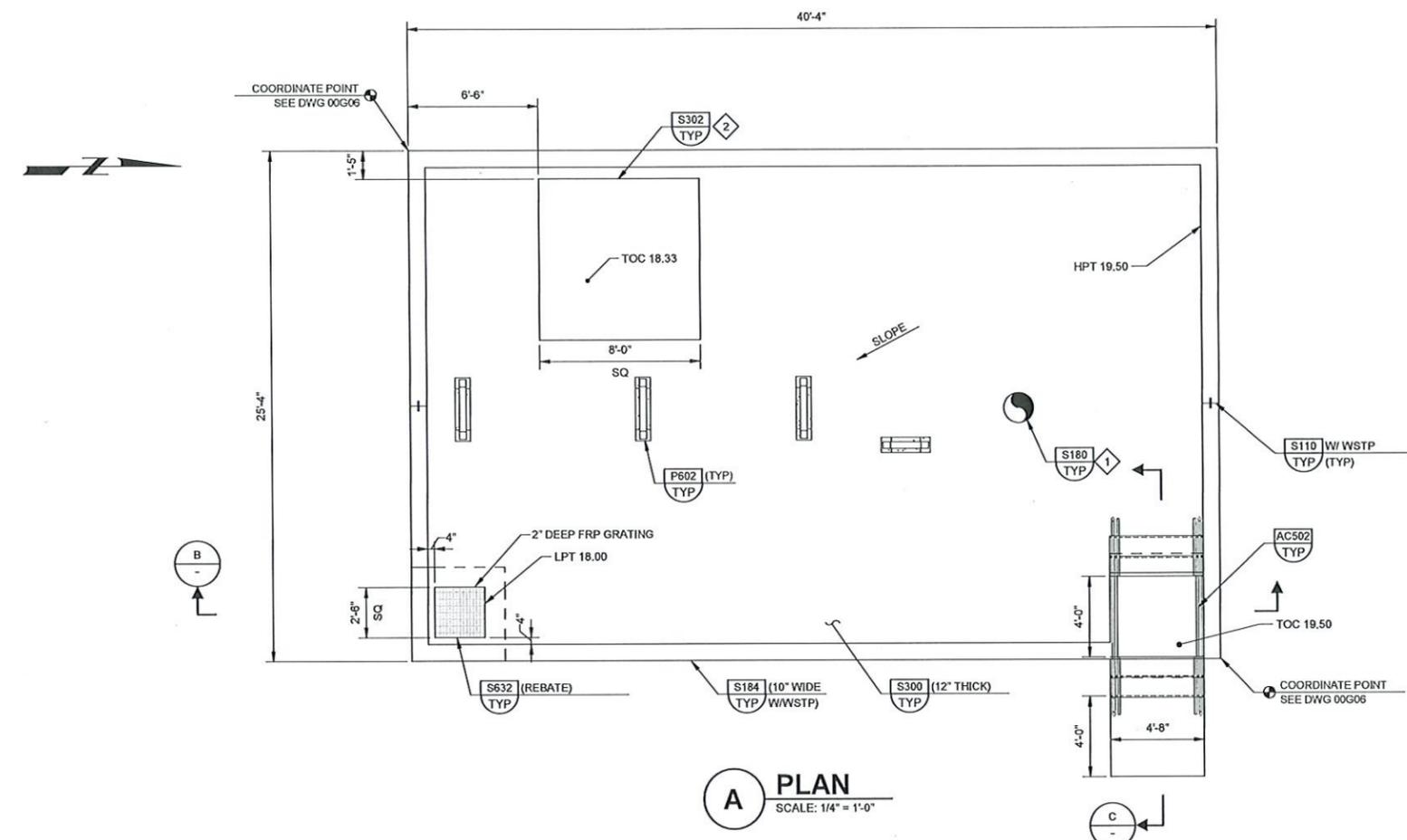
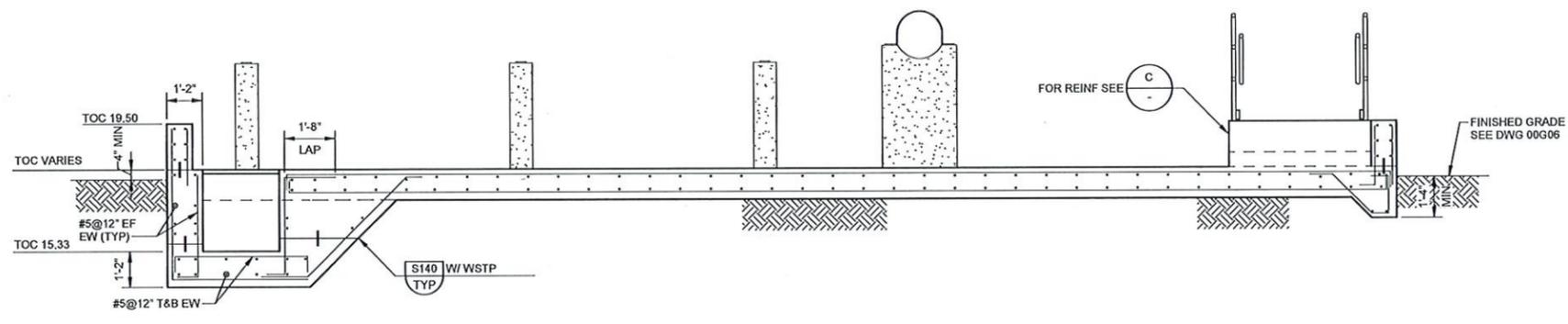


- GENERAL NOTES:**
1. THIS DRAWING IS REPRESENTATIVE OF INJECTION WELL #1 AND INJECTION WELL #2.
 2. OVER EXCAVATE TO THE LOWEST FOUNDATION BEARING LEVEL. EXCAVATION BOTTOM SHALL BE COMPACTED UNTIL 98% OF ASTM D1557 IS ACHIEVED WITHIN 1'-0" OF THE EXCAVATED BOTTOM. REFER TO THE SPECIFICATION FOR BACKFILL REQUIREMENTS AND MINIMUM COMPACTION EFFORT.
 3. ELEVATIONS NOTED THUS (X.XX) ARE REFERENCED FROM THE SLAB ON GRADE ELEVATION (UNO).
 4. PROJECT DATUM ELEVATION = 18.00

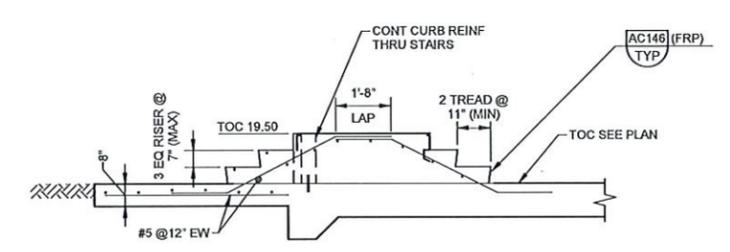
- KEY NOTES:**
1. PROVIDE DIAGONAL BAR ONLY AND WRAP PIPE WITH STRIP WATERSTOP.
 2. CONTRACTOR TO COORDINATE FINAL EQUIPMENT PAD DIMENSIONS WITH SUPPLIED EQUIPMENT.



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



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

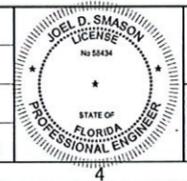


C SECTION
SCALE: 3/8" = 1'-0"

PLOT DATE: 11/6/2025 4:57:59 PM

REV	DATE	BY	DESCRIPTION
1	10/25	MSL	BID SET

DESIGNED
DAM
DRAWN
JLH
CHECKED
MSL
DATE
NOVEMBER 2025



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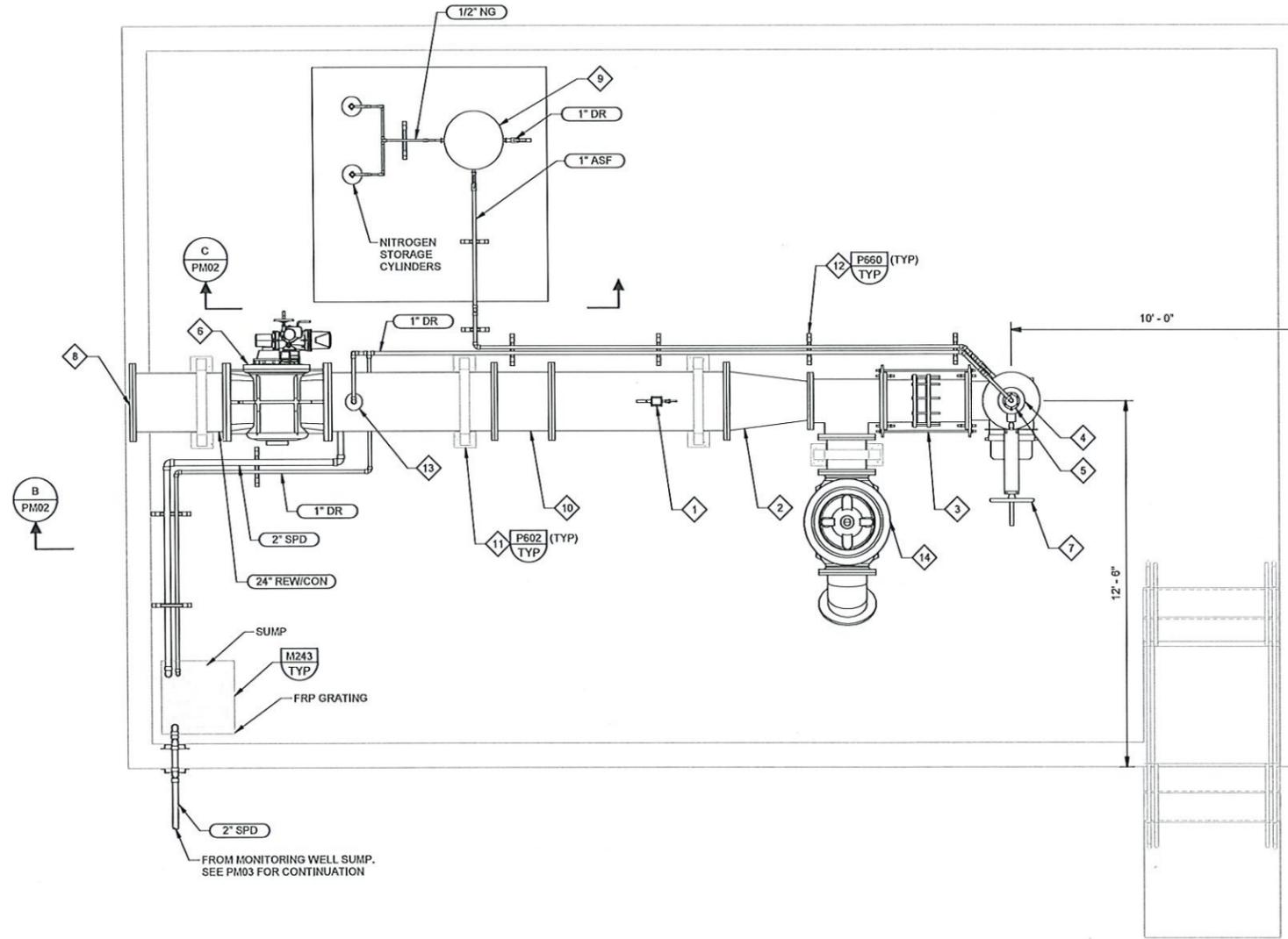
COLLIER COUNTY
NORTHEAST WRF/WTP - DIW CONVEYANCE
STRUCTURAL
DEEP INJECTION WELL
PLAN AND SECTION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
71261.10
DRAWING NO.
S02
SHEET NO.
21 OF 62

- GENERAL NOTES:**
1. THIS DRAWING IS REPRESENTATIVE OF INJECTION WELL # 1 AND INJECTION WELL #2.
 2. SEE DRAWING G02 FOR PIPE SCHEDULE
 3. MINOR INSTRUMENTATION DETAILS ARE LEFT OFF OF THIS DRAWING FOR CLARITY. REFERENCE DRAWING NO. 00N01 FOR FURTHER DETAILS

- KEY NOTES:**
1. PRESSURE GAUGE AND TRANSMITTER
 2. 24"x16" ECCENTRIC REDUCER
 3. RESTRAINED FLEXIBLE COUPLING
 4. 6" BALL VALVE
 5. 2" AIR RELEASE VALVE
 6. 24" PLUG VALVE WITH MOTOR ACTUATOR
 7. 16" KNIFE GATE VALVE
 8. 24" PVC BLIND FLANGE
 9. 100 GALLON, 24" DIA WELL ANNULUS PRESSURE TANK
 10. LOCATION FOR FLOW METER. CONTRACTOR TO VERIFY DIMENSION OF SPOOL PIECE PRIOR TO PIPE FABRICATION
 11. CONCRETE PIPE SUPPORT
 12. PREFORMED CHANNEL PIPE SUPPORT
 13. 1" AIR RELEASE VALVE
 14. 16" SURGE ANTICIPATOR VALVE

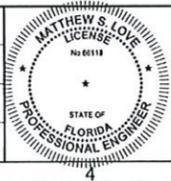


A PLAN
SCALE: 3/8" = 1'-0"

PLOT DATE: 11/19/2025 7:59:20 PM

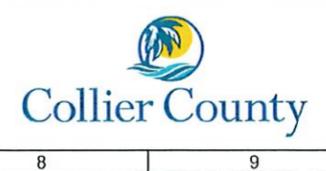
REV	DATE	BY	DESCRIPTION
1	10/25	MSL	BID SET

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MAB
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AMR
CHECKED
MSL
DATE
NOVEMBER 2025



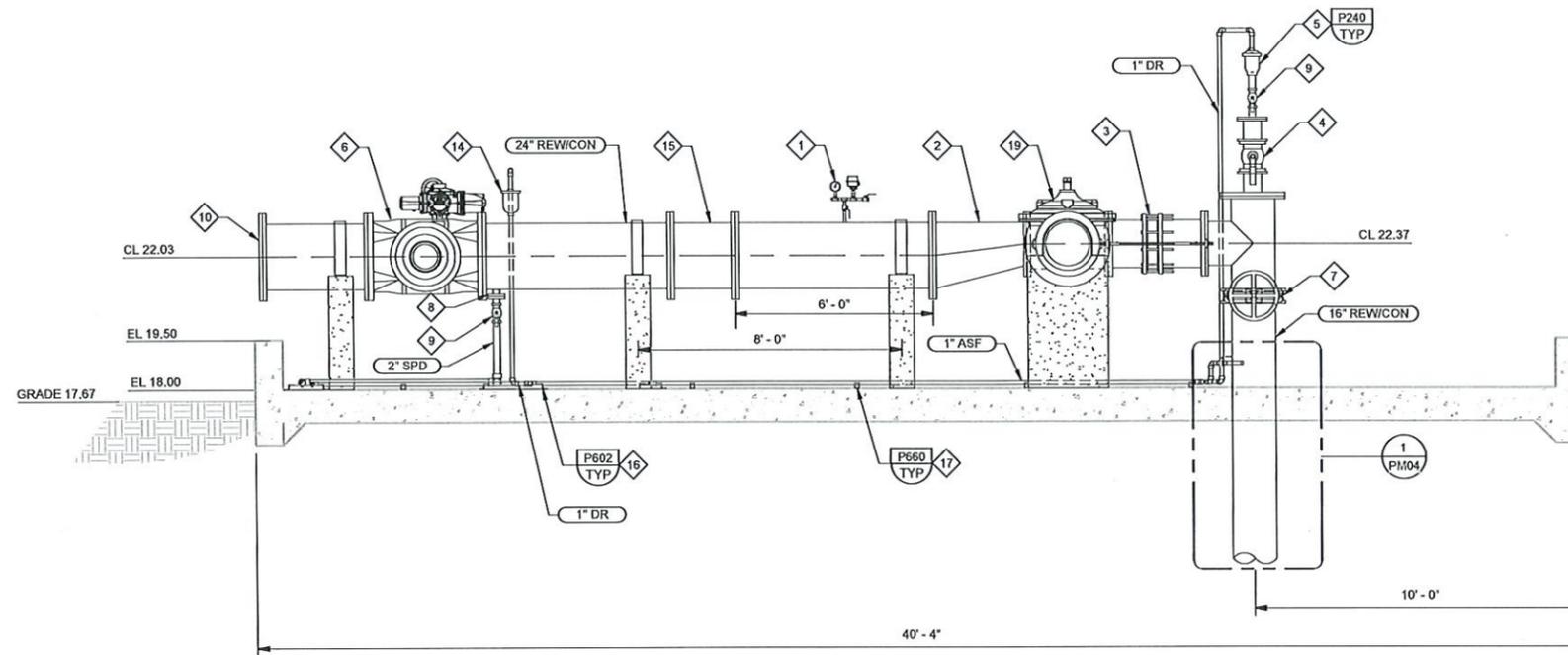
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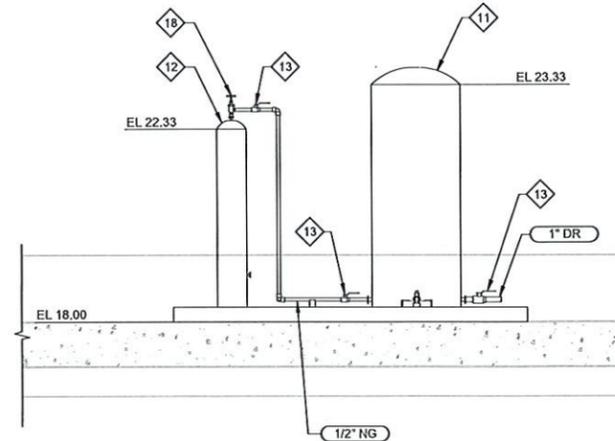


COLLIER COUNTY
NORTHEAST WRF/WTP - DIW CONVEYANCE
MECHANICAL
DEEP INJECTION WELL - PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"	JOB NO. 71261.10 DRAWING NO. PM01 SHEET NO. 23 OF 62
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B SECTION
 PM01 SCALE: 3/8" = 1'-0"



C SECTION
 PM01 SCALE: 1/2" = 1'-0"

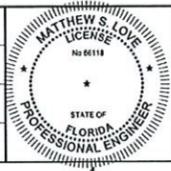
- GENERAL NOTES:**
1. THIS DRAWING IS REPRESENTATIVE OF INJECTION WELL # 1 AND INJECTION WELL #2.
 2. SEE DRAWING G02 FOR PIPE SCHEDULE
 3. FLOOD ELEVATION 14.5 FT ABOVE MSL, NAVD88

- KEY NOTES:**
1. PRESSURE GAUGE AND TRANSMITTER
 2. 24"x16" ECCENTRIC REDUCER
 3. RESTRAINED FLEXIBLE COUPLING
 4. 6" BALL VALVE
 5. 2" AIR RELEASE VALVE
 6. 24" PLUG VALVE WITH MOTOR ACTUATOR
 7. 16" KNIFE GATE VALVE
 8. 2" FLANGED OUTLET
 9. 2" BALL VALVE
 10. 24" PVC BLIND FLANGE
 11. 250 GALLON, 36" DIA WELL ANNULUS PRESSURE TANK
 12. NITROGEN STORAGE CYLINDERS
 13. BALL VALVE
 14. 1" AIR RELEASE VALVE
 15. LOCATION FOR FLOW METER, CONTRACTOR TO VERIFY DIMENSION OF SPOOL PIECE PRIOR TO PIPE FABRICATION
 16. CONCRETE PIPE SUPPORT
 17. PREFORMED CHANNEL PIPE SUPPORT
 18. ANGLE VALVE
 19. 16" SURGE ANTICIPATOR VALVE

PLOT DATE: 11/19/2025 7:59:27 PM

DESIGNED	MAB		
DRAWN	AMR		
CHECKED	MSL		
DATE	NOVEMBER 2025		
DESCRIPTION	BID SET		
REV	DATE	BY	DESCRIPTION
1	10/25	MSL	BID SET

DESIGNED MAB
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 DATE NOVEMBER 2025
 DESCRIPTION BID SET



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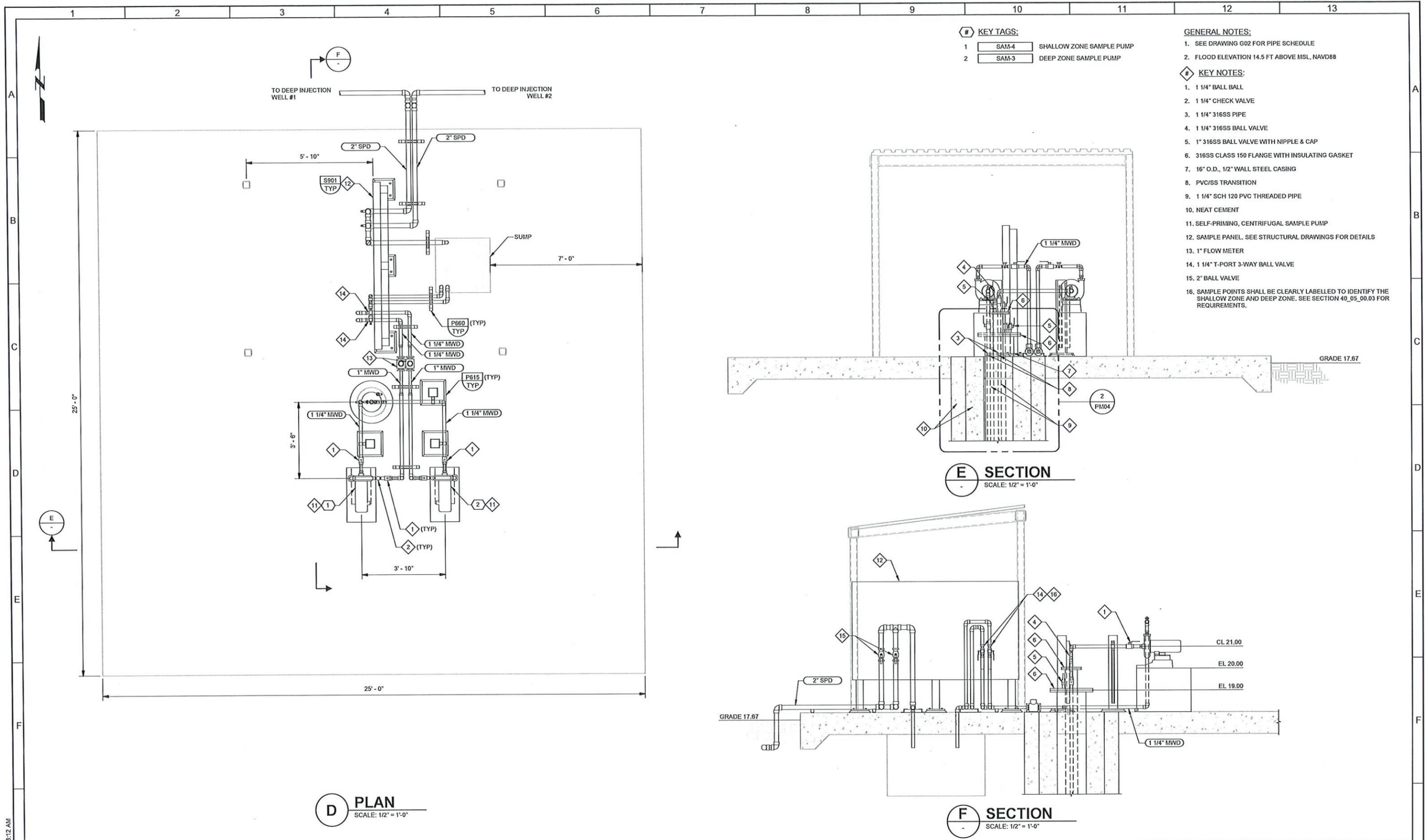
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Collier County

COLLIER COUNTY
 NORTHEAST WRF/WTP - DIW CONVEYANCE
 MECHANICAL
 DEEP INJECTION WELL - SECTIONS

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

JOB NO. 71261.10
 DRAWING NO. PM02
 SHEET NO. 24 OF 62



PLOT DATE: 11/10/2025 10:18:12 AM

REV	DATE	BY	DESCRIPTION
1	10/25	MSL	BID SET

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DRAWN AMR	
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DATE NOVEMBER 2025	

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COLLIER COUNTY
NORTHEAST WRF/WTP - DIW CONVEYANCE
MECHANICAL
MONITORING WELL SURFACE FEATURES
PLAN AND SECTIONS

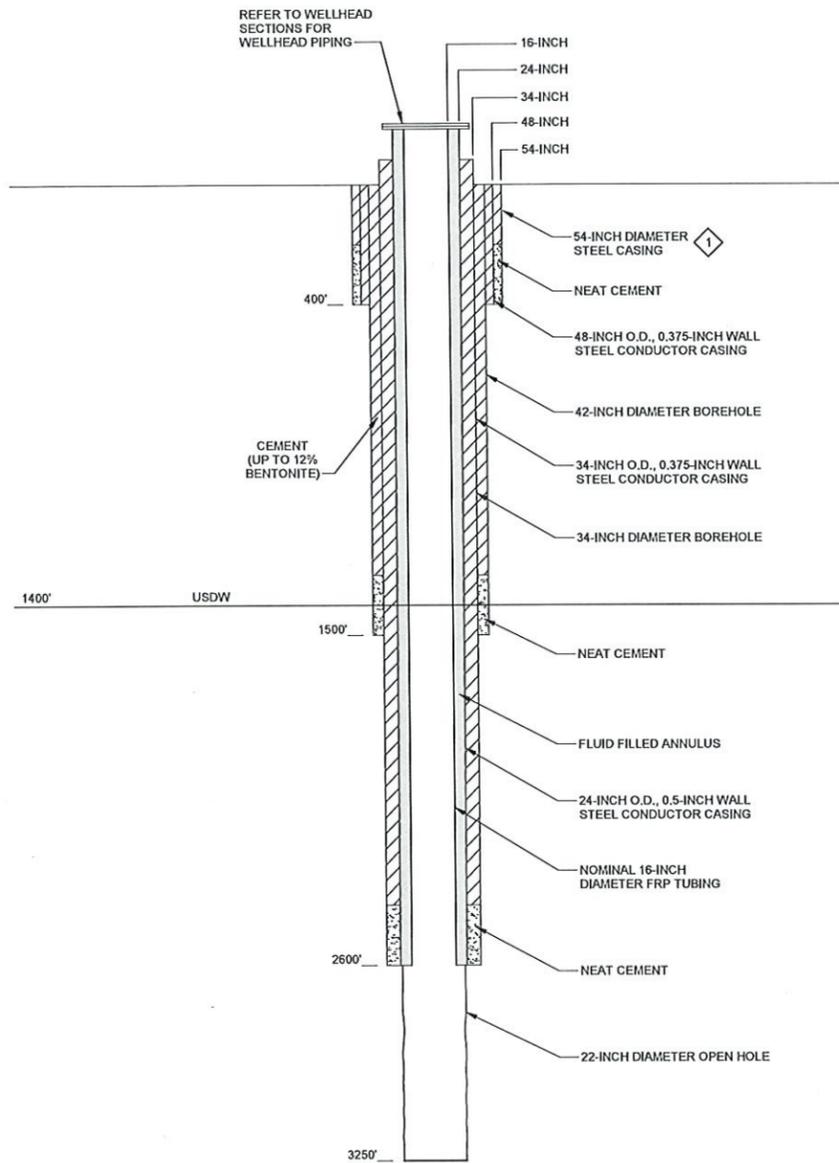
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 71261.10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. PM03
	SHEET NO. 25 OF 62

GENERAL NOTES:

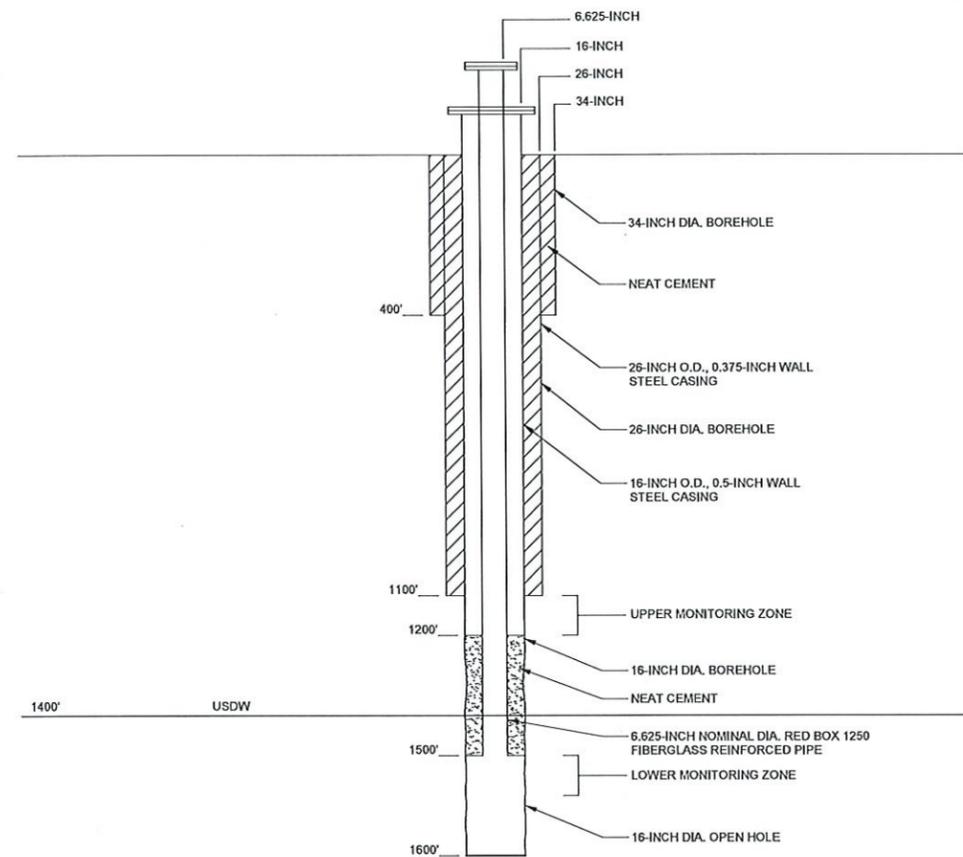
- ELEVATIONS SHOWN ON THIS DRAWING REPRESENT FEET BELOW GRADE

KEY NOTES:

- INSTALL 54-INCH DIAMETER STEEL CASING TO A MINIMUM DEPTH OF 50 FEET BELOW LAND SURFACE



INJECTION WELL
1 DETAIL
 PM02 SCALE: NOT TO SCALE



MONITORING WELL
2 DETAIL
 PM03 SCALE: NOT TO SCALE

PLOT DATE: 11/02/25 4:54:31 PM

REV	DATE	BY	DESCRIPTION
1	10/25	MSL	BID SET

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Collier County

COLLIER COUNTY
 NORTHEAST WRF/WTP - DIW CONVEYANCE
 MECHANICAL
 INJECTION AND MONITORING WELLS DETAILS

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
71261.10
 DRAWING NO.
PM04
 SHEET NO.
26 OF 62

ELECTRICAL PLAN/LAYOUT

ONE LINE DIAGRAMS, RISER DIAGRAMS AND SCHEMATICS

SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL CABINET
	TERMINAL JUNCTION BOX
	ELECTRICAL EQUIPMENT
	CEILING MOUNTED DOWNLIGHT LUMINAIRE - SEE SCHEDULE FOR TYPE
	FLOURESCENT LUMINAIRE, SURFACE OR LAY IN TYPE SEE SCHEDULE FOR TYPE
	LUMINAIRE AND POLE - SEE SCHEDULE FOR TYPE
	WALL MOUNTED LUMINAIRE - SEE SCHEDULE FOR TYPE
	FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN SEE SCHEDULE FOR TYPE
	EXIT LIGHTS - SOLID SECTION IS DIRECTION OF FACE SEE SCHEDULE FOR TYPE
	EMERGENCY LIGHT WITH BATTERY PACK SEE SCHEDULE FOR TYPE
	LIGHTING FIXTURE POWER AND SWITCHING LEGEND X=FIXTURE TYPE Y= PANEL-CIRCUIT BRKR Z=SWITCH IF NO Z INDICATED, CONNECT DIRECTLY TO CIRCUIT BREAKER.
	CONDUIT/CONDUCTOR - REFER TO CIRCUIT SCHEDULE
	HOME RUN - PANEL AND CIRCUIT NUMBER SHOWN
	EXPOSED CONDUIT AND CONDUCTORS*
	UNDERGROUND CONDUIT AND CONDUCTORS* NOTE: * ALL UNMARKED CONDUIT RUNS CONSIST OF 2#12, 1#12G IN 3/4" C.
	YARD CONDUIT. REFER TO YARD CONDUIT SCHEDULE
	DIRECT BURIED CONDUIT
	CONDUIT, STUBBED AND CAPPED AS SHOWN
	GROUND WIRE, 4/0 UNLESS OTHERWISE NOTED
	6 FOOT GROUND WIRE PIGTAIL, 4/0 UNLESS OTHERWISE NOTED
	COUPLING TWO 10' RODS IS ACCEPTABLE.
	GROUND TEST WELL, SEE DETAIL
	WALL SWITCH: 2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED 4- FOUR WAY D- DIMMER WP- WEATHERPROOF CRE- CORROSION RESISTANT
	CONVENIENCE RECEPTACLE - 20A DUPLEX UNLESS SPECIFIED OTHERWISE WP- WEATHERPROOF C- CLOCK HANGER TL- TWIST LOCK CRE- CORROSION RESISTANT GFI-GROUND FAULT INTERRUPTER
	CONVENIENCE RECEPTACLE - 20A QUADROPLEX UNLESS SPECIFIED OTHERWISE
	CONVENIENCE RECEPTACLE - 20A DUPLEX UNLESS SPECIFIED OTHERWISE. LOCATED ABOVE COUNTER TOP GFI-GROUND FAULT INTERRUPTER
	CONVENIENCE RECEPTACLE - 20A DUPLEX UNLESS SPECIFIED OTHERWISE. MOUNTED FLUSH IN FLOOR.
	RECEPTACLE, SPECIAL PURPOSE - AMPERAGE AS INDICATED.
	TELEPHONE/DATA RECEPTACLE (OUTLET BOX, 18" AFF) W- WALL MOUNTED, 54" AFF
	TELEPHONE/DATA RECEPTACLE MOUNTED FLUSH IN FLOOR
	JUNCTION BOX NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. 4X = NEMA 4X SS
	FIRE ALARM PULL STATION
	FIRE ALARM HORN/STROBE LIGHT
	FIRE ALARM STROBE LIGHT
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	SURVEILLANCE CAMERA X - 90, 180 OR 360 CAMERA
	SECURITY SYSTEM DOOR SWITCH

SYMBOL	DESCRIPTION
	FIRE ALARM SMOKE DETECTOR EC- MOUNTED TO EXPOSED CEILING H- HARSH ENVIRONMENT RATED
	FIRE ALARM HEAT DETECTOR EC- MOUNTED TO EXPOSED CEILING
	BEAM DETECTOR, T=TRANSMITTER, R=RECEIVER
	DUCT SMOKE DETECTOR
	REMOTE TELEMETRY UNIT
	SECURITY CARD READER

ABBREVIATIONS		ABBREVIATIONS	
ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
A	AMMETER, AMPERE	MCB	MAIN CIRCUIT BREAKER
AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
AF	AMPERE FRAME	MDP	MAIN DISTRIBUTION PANEL
AFD	ADJUSTABLE FREQUENCY DRIVE	MERC	MERCURY VAPOR
AFH	ABOVE FINISHED FLOOR	MH	MOTOR HEATER, MANHOLE
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AS	AMMETER SWITCH, AMPERE SENSOR	MPZ	MINI POWER ZONE
ASU	AIR SUPPLY UNIT	MPR	MOTOR PROTECTION RELAY
ATS	AUTOMATIC TRANSFER SWITCH	MS	MOTOR STARTER
BC	BYPASS CONTACTOR	MSC	MANUFACTURER SUPPLIED CABLE
BRKR	BREAKER	MT	MOUNT
C	CONDUIT, CONTACTOR	MTD	MOTOR TEMPERATURE DETECTOR
CB	CIRCUIT BREAKER	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CMS	COMBINATION MOTOR STARTER	NEMA	NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
CPT	CONTROL POWER TRANSFORMER	NO	NORMALLY OPEN
CR	CONTROL RELAY	NP	NAMEPLATE
CRE	CORROSION RESISTANT	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	OL	OVERLOAD RELAY
DC	DIRECT CURRENT	OLM	OPTICAL LINK MODULE
DIV	DIVISION	P	POLE
DP	DISTRIBUTION PANEL (480V)	PB	PULL BOX
EF	EXHAUST FAN	PC	PHOTOCELL
EG	ELECTRICAL GROUND	PH	PHASE
ETM	ELAPSED TIME METER	PM	PHASE MONITOR, POWER METER
EXST	EXISTING	PNL	PANEL
F	FUSE	PP	POWER PANEL (480VAC)
FDR	FEEDER	PR	PAIR
F, FU	FUSE	PS	PRESSURE SWITCH
FI	FLOW INDICATOR	PT	POTENTIAL TRANSFORMER
FLR	FLOOR	PVC	POLYVINYL CHLORIDE CONDUIT
FLUOR	FLOURESCENT	RCPT	RECEPTACLE
FM	FLOW METER	RMS	ROOT MEAN SQUARE
FO	FIBER OPTIC	RS	RIGID STEEL CONDUIT
FS	FLOAT SWITCH, FLOW SWITCH	RGS	RIGID GALVANIZED STEEL CONDUIT
FT	FLOW TRANSMITTER	RTU	REMOTE TELEMETRY UNIT
FUT	FUTURE	SC	SURGE CAPACITOR
FVNR	FULL VOLTAGE NON-REVERSING STARTER	SF	SUPPLY FAN
G	GREEN, GROUND	SH	SPACE HEATER
GEN	GENERATOR	S/N	SOLID NEUTRAL
GFI	GROUND FAULT INTERRUPTER	SPD	SURGE PROTECTION DEVICE
GFR	GROUND FAULT RELAY	SSRVS	SOLID STATE REDUCED VOLTAGE STARTER
GND	GROUND	SS	STAINLESS STEEL
HH	HANDHOLE	SV	SOLENOID VALVE
HID	HIGH INTENSITY DISCHARGE	SW	SWITCH
HOA	HAND/OFF/AUTO	SWBD	SWITCHBOARD
HOR	HAND/OFF/REMOTE	SWGR	SWITCHGEAR
HPS	HIGH PRESSURE SODIUM	SYM	SYMMETRICAL
HVAC	HEATING, VENTILATING & AIR CONDITIONING	T	THERMOSTAT
IC	INTERRUPTING CAPACITY	TB	TERMINAL BOARD
I & C	INSTRUMENTATION AND CONTROL	TDR	TIME DELAY RELAY
IMH	INSTRUMENTATION MANHOLE	TJB	TERMINAL JUNCTION BOX
INST	INSTANTANEOUS	TS	THERMAL SWITCH
IP	INSTRUMENT PANEL (PANELBOARD)	TSP	TWISTED SHIELDED PAIR
J, J-BOX	JUNCTION BOX	TYP	TYPICAL
K	KEY INTERLOCK	UPS	UNINTERRUPTIBLE POWER SUPPLY
KK	KIRK KEY INTERLOCK	UVR	UNDER VOLTAGE RELAY
LA	LIGHTNING ARRESTER	V	VOLTMETER, VOLT
LC	LIGHTING CONTACTOR	VFD	VARIABLE FREQUENCY DRIVE
LP	LIGHTING PANEL (PANELBOARD)	VS	VOLTMETER SWITCH
LR	LOCAL/REMOTE, LATCHING RELAY	W	WATT
LS	LIMIT SWITCH	WHD	WATTHOUR DEMAND METER
LT FLEX	LIQUID TIGHT FLEX CONDUIT	WP	WEATHERPROOF
LTG	LIGHTING	XFMR	TRANSFORMER
M	MAGNETIC CONTACTOR COIL OR MOTOR		
MA	MILLIAMPS		

SYMBOL	DESCRIPTION
	MOTOR, SQUIRREL CAGE INDUCTION UNLESS OTHERWISE NOTED - HORSEPOWER INDICATED
	OVERLOAD RELAY HEATER
	MAGNETIC STARTER WITH NEMA SIZE INDICATED
	MOTOR CIRCUIT PROTECTOR, MAGNETIC, 3 POLE UNLESS INDICATED OTHERWISE.
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
	SWITCH - CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
	DRAWOUT CIRCUIT BREAKER, LOW VOLTAGE 600= FRAME RATING, 400=TRIP SETTING
	DRAWOUT CIRCUIT BREAKER, MEDIUM VOLTAGE 1200= FRAME RATING, 1200=TRIP SETTING
	DRAWOUT FUSED SWITCH, LOW OR MEDIUM VOLTAGE 600= FRAME RATING, 400=FUSE RATING
	CURRENT TRANSFORMER, NUMBER OF WINDINGS INDICATED
	TRANSFORMER, VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE 480-120 / 208V 15 KVA, 30 K-4 RATED
	LIGHTNING ARRESTER
	CAPACITOR OR SURGE CAPACITOR
	UTILITY METER
	GENERATOR
	METER SCALE RANGE SHOWN IF REQUIRED A - AMPS PM - PHASE MONITOR V - VOLTS P - POWER METER
	FUSE
	SURGE PROTECTION DEVICE
	GROUND
	CONTROL TRANSFORMER
	GROUND FAULT RELAY WITH C.T.
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED
	PUSH-BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK
	REMOTE DEVICE
	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE
	PUSH TO TEST AND CONNECT INDICATING LIGHT SCHEMATIC DIAGRAMS ONLY A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE

SYMBOL	DESCRIPTION
	MANUAL MOTOR STARTER SWITCH, NEMA 4X SS UNLESS OTHERWISE NOTED. NUMBER OF POLES AS REQUIRED
	PUSH-BUTTON STATION, NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. 4X = NEMA 4X 316 STAINLESS STEEL ENCLOSURE. SEE CONTROL DIAGRAMS FOR TYPE PUSH BUTTON REQUIRED
	NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE, NEMA 12 ENCLOSURE, 4X = NEMA 4X 316 STAINLESS STEEL
	FUSED DISCONNECT SWITCH, SIZE INDICATED (60 = SWITCH RATING: 40 = FUSE RATING) 3 POLE UNLESS INDICATED OTHERWISE, NEMA 12 ENCLOSURE, 4X = NEMA 4X 316 STAINLESS STEEL
	LIGHTING CONTACTOR, CURRENT RATING INDICATED, NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM FOR NUMBER OF POLES. 4X = NEMA 4X 316 STAINLESS STEEL
	MAGNETIC STARTER, NEMA SIZE INDICATED, NEMA 12 ENCLOSURE, UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM. 4X = NEMA 4X 316 STAINLESS STEEL
	COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED), MAGNETIC STARTER, NEMA SIZE INDICATED, NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL SCHEMATIC DIAGRAM. 4X = NEMA 4X 316 STAINLESS STEEL
	ELECTRIC RESISTANCE HEATER
	ELAPSED TIME METER
	CONTACT - NORMALLY OPEN WITH COIL INDICATED
	CONTACT - NORMALLY CLOSED WITH COIL INDICATED
	CONTROL RELAY, X=SEQUENTIAL NUMBER
	LATCHING RELAY, X=SEQUENTIAL NUMBER L - LATCH, U - UNLATCH
	TIME DELAY RELAY, X=SEQUENTIAL NUMBER NOTC=NORMALLY OPEN TIMED CLOSED NOTO=NORMALLY OPEN TIMED OPEN AFTER CLOSE NCTO=NORMALLY CLOSED TIMED OPEN NCTC=NORMALLY CLOSED TIMED CLOSED AFTER OPEN
	TEMPERATURE OPENS ON RISING TEMPERATURE, CLOSSES ON FALLING TEMPERATURE CLOSSES ON RISING TEMPERATURE, OPENS ON FALLING TEMPERATURE
	SELECTOR SWITCH: MAINTAINED CONTACT WITH CONTACT POSITION INDICATED, CHART IDENTIFIES OPERATION

CKT.	POSITION		
	HAND	OFF	AUTO
1	X	O	O
2	O	O	X

GENERAL	
SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER SECTIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS SECTION.
	1" C, 2#12, 1#12G INDICATES RACEWAY AND CIRCUIT CONDUCTORS. FIRST NUMBER IS RACEWAY SIZE. THE FOLLOWING NUMBERS ARE THE CONDUCTOR QUANTITIES, SIZES, AND TYPES.
	DEMOLITION TO BE REMOVED OR DELETED
	LINE WEIGHT NEW EXISTING
NOTE: THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE UTILIZED ON PROJECT.	

DESIGNED ADS	DRAWN MDG	CHECKED ADS	DATE OCTOBER 2025					COLLIER COUNTY		VERIFY SCALES	JOB NO. 71261.10
								NORTHEAST WRF/WTP -DIW CONVEYANCE		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00GE01
ELECTRICAL LEGEND								0 1" SCALE		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 27 OF 62

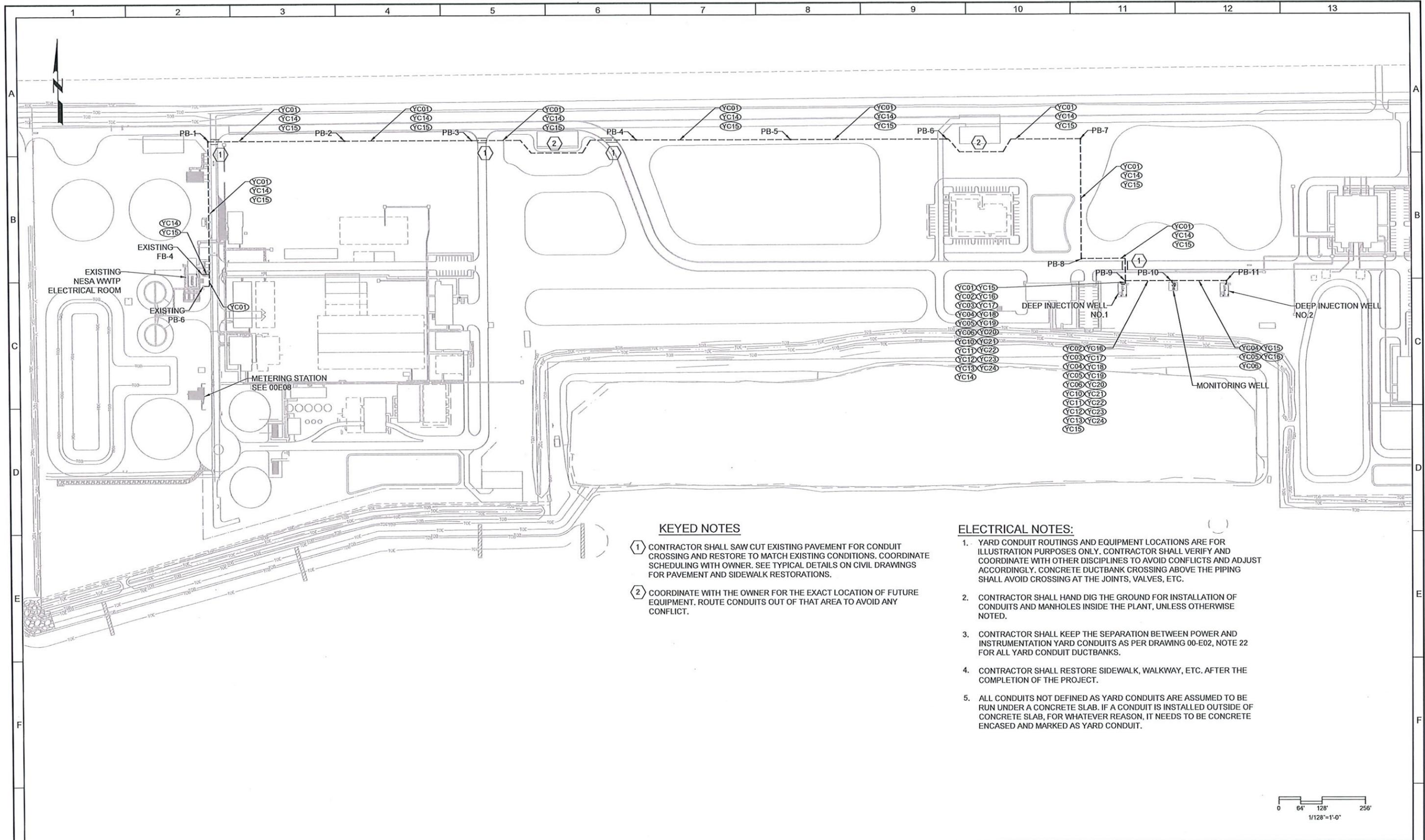
GENERAL NOTES AND SPECIFICATIONS:

1. NOT USED.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2017 (NFPA 70), ELECTRICAL SAFETY IN THE WORKPLACE (NFPA 70E), ALL MONROE COUNTY CODES AND LATEST FLORIDA BUILDING CODE.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO INCLUDE, BUT ARE NOT LIMITED TO, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF HIS BID IF NOT OTHERWISE NOTED. THE FOLLOWING PERMITS ARE REQUIRED: POWER, LIGHTING, INSTRUMENTATION, LIGHTNING PROTECTION, FIBER OPTIC, LOW VOLTAGE AND ELECTRICAL DEMOLITION.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ENGINEER AND THE OWNER.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND U.L. LISTED WHERE APPLICABLE.
8. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
9. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
10. ALL CONDUCTORS SHALL BE COPPER. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
11. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL & CONTROL EQUIPMENT AND MATERIAL.
12. ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BEAR A UL 508A LABEL ON THE PANEL.
13. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
14. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
15. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
16. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
17. NOT ALL CONDUITS SHOWN ON RISER AND ONE-LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE-LINE DIAGRAMS.
18. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
19. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
20. INSTRUMENTATION IS LOW VOLTAGE SIGNALS SUCH AS 4-20MA, TELEPHONE COMMUNICATION, FIRE ALARM COMMUNICATION. POWER CONDUIT SHALL ONLY CROSS INSTRUMENTATION CONDUIT PERPENDICULARLY AT RIGHT ANGLES WITH 6" SEPARATION.
21. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
22. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION CONDUITS SHALL BE:

VOLTAGE	DISTANCE
4160V - 15KV TO INST. CONDUIT	3 FT
480V - 600V TO INST CONDUIT	2 FT
120V TO INST. CONDUIT	1 FT
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS SUCH AS HVAC, EXHAUST FANS, MIXERS, CHEMICAL PUMPS ETC. AND MODIFY ALL BREAKERS IN MCC'S AND PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
24. ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH THE OWNER.
25. MINIMUM DEPTH FROM TOP OF DUCT BANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
26. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 8" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
 POWER: RED
 ALL OTHER CONDUITS: GREEN
27. CONTRACTOR SHALL RESTORE SIDEWALKS, ROADWAYS, SOD AND SPRINKLER SYSTEM PIPING TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.
28. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2017, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
29. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, AS SHOWN ON PLANS.
30. ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES (EXCEPT IN-GROUND PULL BOXES AND MANHOLES) ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
31. PRIMARY BUILDING GROUNDING SHALL BE AN EMBEDDED GRID OF MINIMUM #4/0 AWG WIRE INSTALLED IN THE FOUNDATION AND AROUND THE BUILDING PERIMETER TO FORM A COMPLETE LOOP. SECONDARY GROUND CONNECTIONS TO ALL METAL EQUIPMENT, HAND RAILS, STRUCTURAL STEEL, CONCRETE PADS, REBAR ETC. SHALL HAVE A MINIMUM #4 STRANDED COPPER CONDUCTOR BONDED USING APPROVED LUGS OR EXOTHERMIC CONNECTIONS. ALL EQUIPMENT GROUNDING CONDUCTORS PENETRATING CONCRETE SLABS OR FINISHED GRADE SHALL HAVE A 72" CONDUCTOR PIGTAIL AT EACH LOCATION FOR CONNECTION TO EQUIPMENT.
32. ALL CONCRETE ENCASED DUCTBANKS SHALL CARRY A MINIMUM #4/0 AWG BARE COPPER GROUND WIRE, OVER THE ENTIRE LENGTH, WHICH SHALL BE CONNECTED TO THE SITE GROUNDING GRID AND GROUND RODS LOCATED CONNECTING MANHOLES, HANDHOLES OR PULL BOXES.
33. CONTRACTOR SHALL CORE DRILL EXISTING CONCRETE WALLS, FLOORS, MANHOLES, HANDHOLES AND PULL BOXES FOR CONDUIT PENETRATIONS. SEAL PENETRATIONS WITH NON-SHRINK GROUT OR APPROPRIATE FIRE RATED DEVICES WHERE APPLICABLE.
34. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
35. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
36. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.
37. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES SHALL BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
38. ALL RECEPTACLES WITHIN 6' OF A SINK SHALL BE GFI.
39. FLEXIBLE CONDUITS SHALL BE USED TO TERMINATE ALL MOTORS AND OTHER VIBRATING EQUIPMENT AND SHALL BE BETWEEN 18" AND 3' IN LENGTH.
40. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
41. ALL SPD'S SHALL BE INTEGRAL TO THE NEW EQUIPMENT SHOWN AND SUPPLIED AS ONE UNIT AND ONE U.L. ENTITY.
42. ALL MATERIAL IN DESIGNATED CORROSIVE AREAS SHALL BE NEMA 4X STAINLESS STEEL OR NON-METALLIC.
43. ALL OUTDOOR LIGHTING FIXTURES SHALL BE OF COPPER FREE CONSTRUCTION.
44. ALL REFERENCES TO SS OR STAINLESS STEEL SHALL BE 316 STAINLESS STEEL.
45. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.
46. ALL YARD CONDUITS SHALL BE DIRECT BURIAL UNLESS NOTED OTHERWISE. REFER TO DRAWING 00E11 FOR INSTALLATION DETAILS.
47. ALL CONDUIT CONNECTIONS TO NEMA 4X PANELS/ENCLOSURES SHALL USE MYERS HUBS (OR EQUAL) TO MAINTAIN 4X RATING.
48. NOT USED.
49. CONTRACTOR SHALL PROVIDE FOR A SATISFACTORY NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) INSPECTION FOR ALTERATIONS TO CONTROL PANELS, ELECTRICAL EQUIPMENT, OR ASSEMBLIES TO MAINTAIN THE ORIGINAL UL RATING.
50. PROVIDE AS-BUILT DRAWINGS AND MANUALS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 13-413.ABC.2.1 & 13-413.ABC.2.2
51. CONDUCTORS SHALL BE STRANDED COPPER, NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS. POWER CONDUCTORS SHALL BE XHHW IN WET LOCATIONS OR IN UNDERGROUND RACEWAYS AND SHALL BE THWN/THHN IN DRY LOCATIONS.
52. INSTRUMENTATION AND CONTROL CIRCUITS ORIGINATING FROM CONTROL PANELS CONTAINING A PLC ARE CLASSIFIED AS CLASS 1 POWER-LIMITED CIRCUITS PER NEC ARTICLE 725. CONTROL AND INSTRUMENTATION AND CONTROL CIRCUITS ORIGINATING FROM CONTROL PANELS WITHOUT A PLC OR FROM A MOTOR CONTROL CENTER ARE CLASSIFIED AS CLASS 1 REMOTE CONTROL AND SIGNALING CIRCUITS PER NEC ARTICLE 725.
53. ALL VERTICAL CONDUIT PENETRATIONS FROM CONCRETE SLAB SHALL HAVE A MAINTENANCE PAD TO PREVENT CORROSION.
54. AFFIX NAMEPLATES TO ALL DISCONNECT SWITCHES WITH THE NAME OF THE EQUIPMENT SERVED BY THE DISCONNECT SWITCH IN ACCORDANCE WITH NEC ARTICLE 110.22. NAMEPLATES SHALL BE AS DESCRIBED IN SPECIFICATION 26_05_04.
55. THERE ARE NO CLASSIFIED AREAS PERTAINING TO NEC ARTICLE 500 IN THIS FACILITY.

NOTE:
 THE EXISTING ELECTRICAL INFORMATION IS OBTAINED FROM "RECORD DRAWINGS" AND OTHER "AS-BUILT DRAWINGS". CONTRACTOR SHALL VERIFY THE INFORMATION PROVIDED IN THESE DRAWINGS AND ADJUST ACCORDINGLY. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE SUBMITTING HIS BID.

DESIGNED ADS					COLLIER COUNTY	VERIFY SCALES	JOB NO. 71261.10
DRAWN MDG					NORTHEAST WRF/WTP -DIW CONVEYANCE	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00GE02
CHECKED ADS					ELECTRICAL NOTES	0 1"	SHEET NO. 28 OF 62
DATE OCTOBER 2025	<small>THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEXANDER D. STOUKOVIC ON THE DATE ADJACENT TO THE SEAL ON THE COVER SHEET. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE HERE VERIFIED ON ANY ELECTRONIC COPIES.</small>		<small>4701 N FEDERAL HWY, STE 390 POMPANO BEACH, FL 33064 PHONE: (561) 210-5715</small>		<small>301 North Cattlemen Road, Suite 302 Sarasota, FL 34232 Phone: 941-371-9832 CA No. 00008571</small>		

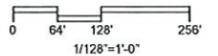


KEYED NOTES

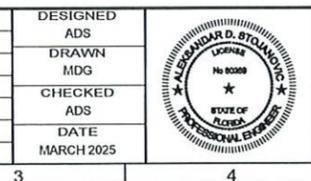
- ① CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT FOR CONDUIT CROSSING AND RESTORE TO MATCH EXISTING CONDITIONS. COORDINATE SCHEDULING WITH OWNER. SEE TYPICAL DETAILS ON CIVIL DRAWINGS FOR PAVEMENT AND SIDEWALK RESTORATIONS.
- ② COORDINATE WITH THE OWNER FOR THE EXACT LOCATION OF FUTURE EQUIPMENT. ROUTE CONDUITS OUT OF THAT AREA TO AVOID ANY CONFLICT.

ELECTRICAL NOTES:

- 1. YARD CONDUIT ROUTINGS AND EQUIPMENT LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS AND ADJUST ACCORDINGLY. CONCRETE DUCTBANK CROSSING ABOVE THE PIPING SHALL AVOID CROSSING AT THE JOINTS, VALVES, ETC.
- 2. CONTRACTOR SHALL HAND DIG THE GROUND FOR INSTALLATION OF CONDUITS AND MANHOLES INSIDE THE PLANT, UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR SHALL KEEP THE SEPARATION BETWEEN POWER AND INSTRUMENTATION YARD CONDUITS AS PER DRAWING 00-E02, NOTE 22 FOR ALL YARD CONDUIT DUCTBANKS.
- 4. CONTRACTOR SHALL RESTORE SIDEWALK, WALKWAY, ETC. AFTER THE COMPLETION OF THE PROJECT.
- 5. ALL CONDUITS NOT DEFINED AS YARD CONDUITS ARE ASSUMED TO BE RUN UNDER A CONCRETE SLAB. IF A CONDUIT IS INSTALLED OUTSIDE OF CONCRETE SLAB, FOR WHATEVER REASON, IT NEEDS TO BE CONCRETE ENCASED AND MARKED AS YARD CONDUIT.



DESIGNED	ADS		
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CHECKED	ADS		
DATE	MARCH 2025		
REV	DATE	BY	DESCRIPTION
1	03/25	RC	BID SET



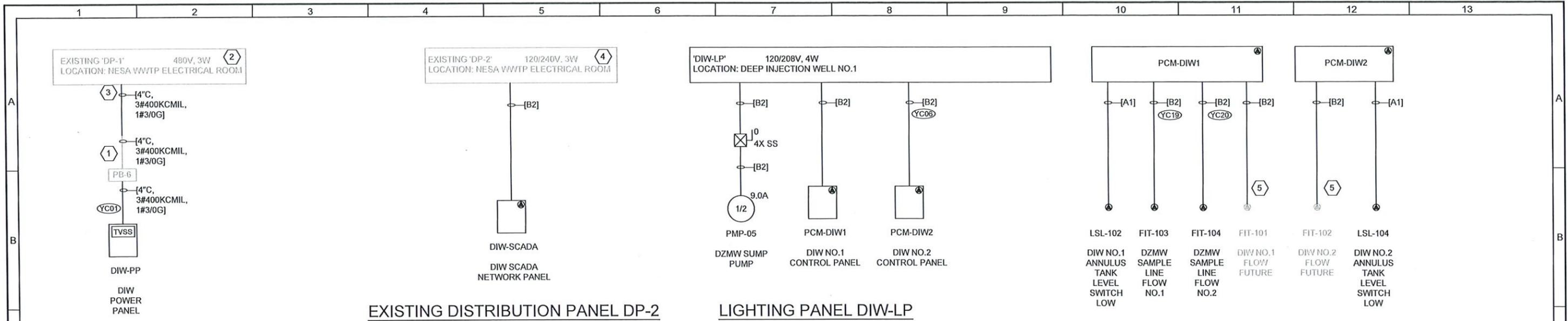
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Collier County

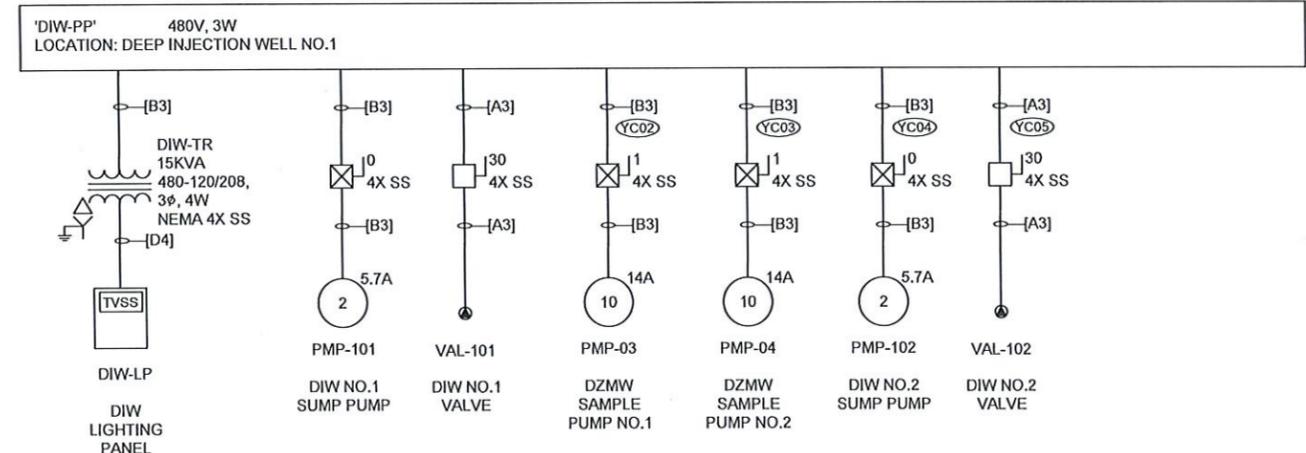
VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	71261.10
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO.
	00E01
	SHEET NO.
	29 OF 61



EXISTING DISTRIBUTION PANEL DP-1

EXISTING DISTRIBUTION PANEL DP-2

LIGHTING PANEL DIW-LP

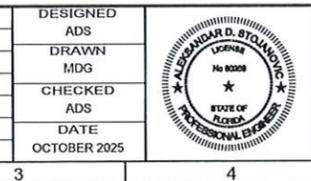


POWER PANEL DIW-PP

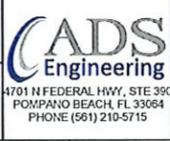
KEYED NOTES:

- 1 CONTRACTOR SHALL FIELD INVESTIGATE AND UTILIZE EXISTING SPARE CONDUIT RUN FROM EXISTING PB-6 TO STUB-UP LOCATION IN NESA WWTP ELECTRICAL ROOM FOR PORTION BETWEEN THE EXISTING PB-6 AND ELECTRICAL ROOM IF FEASIBLE. OTHERWISE PROVIDE A NEW CONDUIT AS PER DESIGN.
- 2 CONTRACTOR SHALL MODIFY THE EXISTING DP-1 PANEL AS NECESSARY IN ORDER TO INSTALL 100A BREAKER. PROVIDED 100A BREAKER SHALL HAVE LUGS WHICH ACCEPTS MINIMUM 350KCMIL CONDUCTOR. IF CONTRACTOR IS NOT ABLE TO PROVIDE 100A BREAKER WITH LUGS WHICH ACCEPTS 350KCMIL CONDUCTOR, CONTRACTOR SHALL UPSIZE THE BREAKER ACCORDINGLY TO PROVIDE BREAKER WITH LUGS THAT ACCEPTS 350KCMIL. CONTRACTOR IS RESPONSIBLE TO DO ALL NECESSARY MODIFICATION TO THE PANEL INCLUDING BUT NOT LIMITED TO REPLACING EXISTING SPARE BREAKERS WITH NEW 100A CIRCUIT BREAKER, UTILIZING EMPTY SPACE FOR NEW BREAKER, ETC. FOR COMPLETE WORKING SYSTEM IN PLACE.
- 3 BEFORE CONDUCTOR TERMINATION TO THE CIRCUIT BREAKER CONTRACTOR SHALL REDUCE WIRE SIZE AS NECESSARY USING APPROVED WATERPROOF SPLICING KIT OR REDUCTION LUGS. THE SPLICING POINT IS REQUIRED TO BE ACCESSIBLE FOR MAINTENANCE.
- 4 CONTRACTOR SHALL FIELD INVESTIGATE AND UTILIZE SPARE 20A CIRCUIT BREAKER IN THE DP-2 IF FEASIBLE. OTHERWISE CONTRACTOR SHALL MODIFY THE EXISTING DP-2 PANEL AS NECESSARY IN ORDER TO INSTALL NEW 20A CIRCUIT BREAKER IN EMPTY SPACE.
- 5 CONTRACTOR SHALL RUN EMPTY CONDUIT FOR FUTURE FLOWMETER AND PROVIDE STUBUPS AT LOCATION OF FUTURE FLOW METER

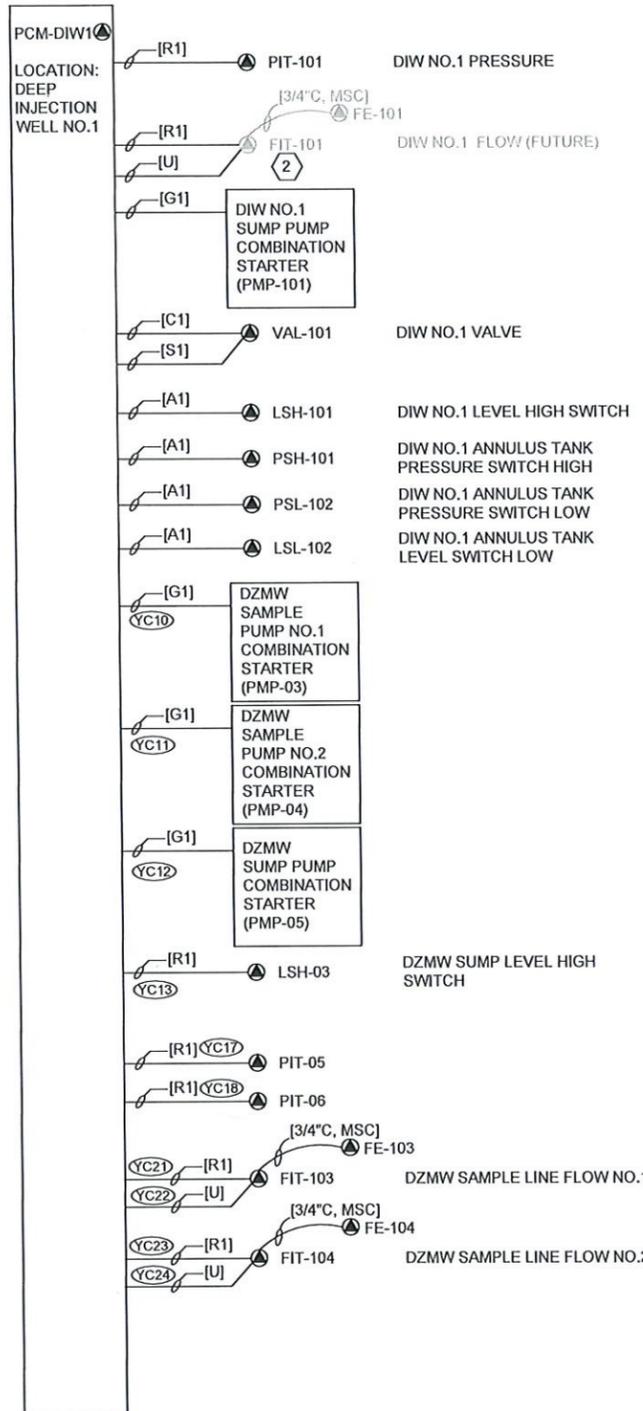
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DATE	OCTOBER 2025		
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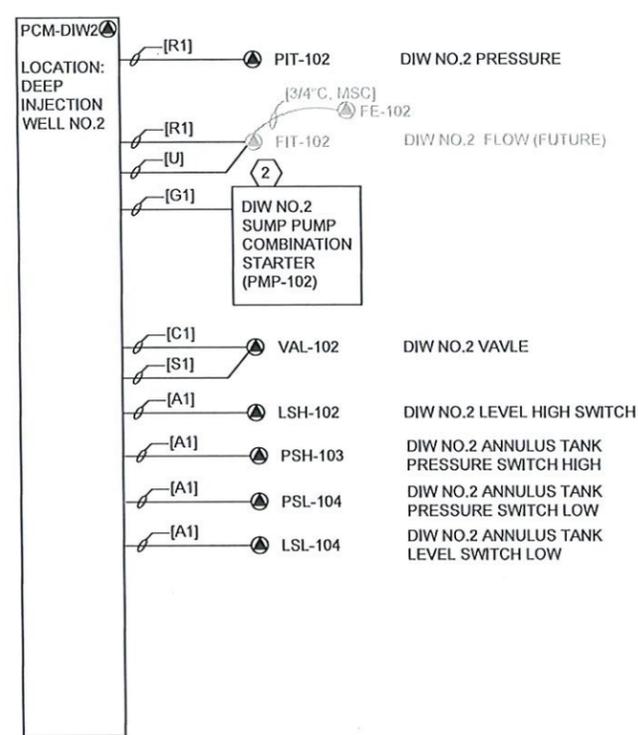
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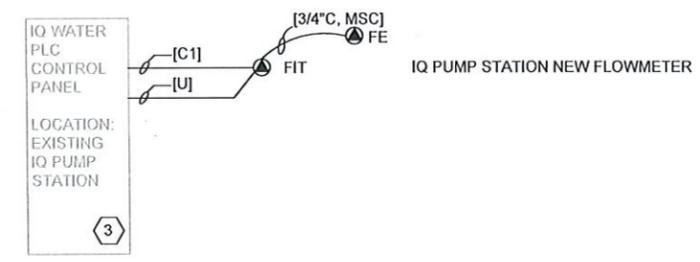
COLLIER COUNTY		VERIFY SCALES	JOB NO.
NORTHEAST WRF/WWTP -DIW CONVEYANCE		BAR IS ONE INCH ON ORIGINAL DRAWING	71261.10
ELECTRICAL		0 1"	DRAWING NO.
RISER DIAGRAMS SHEET NO.1		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	00E02
			SHEET NO.
			30 OF 62



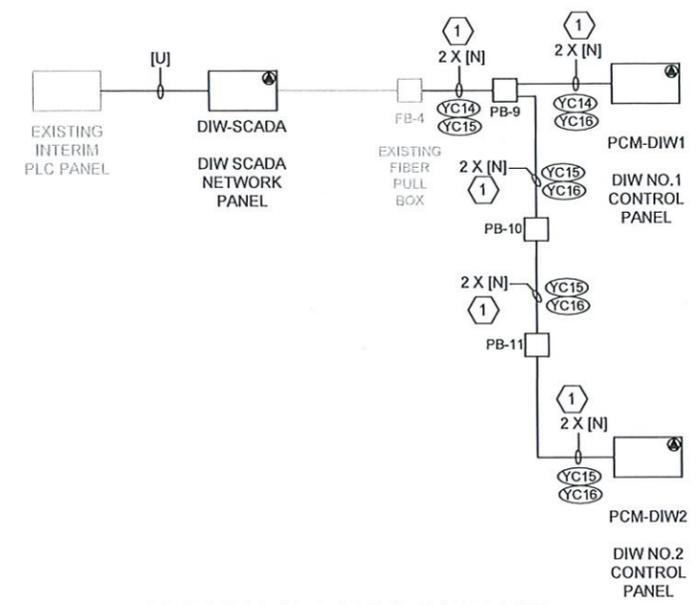
PCM-DIW1 CONTROL RISER



PCM-DIW2 CONTROL RISER



IQ WATER PLC CONTROL PANEL CONTROL RISER



NETWORK CONTROL RISER

KEYED NOTES:

- 1) CONTRACTOR SHALL RUN FIRST FIBER OPTIC CABLE FROM PCM-DIW1 TO DIW-SCADA NETWORK CONTROL PANEL, SECOND FIBER OPTIC CABLE FROM PCM-DIW2 TO DIW-SCADA NETWORK CONTROL PANEL AND THIRD FIBER OPTIC CABLE FROM PCM-DIW1 TO PCM-DIW2 UTILIZING CONDUITS AS SHOWN ON THE NETWORK CONTROL RISER. FIBER OPTIC CABLE SHALL BE IN ITS OWN SEPARATE CONDUIT. RUNNING MULTIPLE FIBER OPTIC CABLES THROUGH THE SAME CONDUIT IS NOT ALLOWED. FOR THE EXACT FIBER OPTIC CABLE TYPE, QUANTITY AND REQUIREMENTS REFER TO THE NETWORK BLOCK DIAGRAM ON DRAWING 03N01.
- 2) CONTRACTOR SHALL RUN EMPTY CONDUIT FOR FUTURE FLOWMETER AND PROVIDE STUBUPS AT LOCATION OF FUTURE FLOW METER.
- 3) CONTRACTOR SHALL FIELD INVESTIGATE AND MODIFY THE EXISTING IQ WATER PLC CONTROL PANEL TO PROVIDE 120VAC POWER FOR THE NEW FIT. PERFORM ALL NECESSARY PANEL MODIFICATIONS, INCLUDING INSTALLING A DEDICATED CIRCUIT BREAKER OR A FUSED TERMINAL BLOCK, TO PROVIDE POWER SUPPLY FOR THE FIT AND TERMINATING THE NETWORK CAT6 CABLE FROM FLOWMETER AT THE EXISTING NETWORK SWITCH IN THE PANEL.

DESIGNED	ADS		
DRAWN	MDG		
CHECKED	ADS		
DATE	OCTOBER 2025		
REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET



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COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
ELECTRICAL
RISER DIAGRAMS SHEET NO.2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 71261.10
DRAWING NO. 00E03
SHEET NO. 31 OF 62

CKT I.D.	CONDUIT AND CONDUCTOR SIZE	AMPS
[A3]	3/4" C, 3#12, 1#12G	20
[B3]	3/4" C, 3#10, 1#10G	30
[C3]	1" C, 3#8, 1#10G	40
[D3]	1" C, 3#6, 1#10G	50
[E3]	1 1/4" C, 3#4, 1#10G	60
[F3]	1 1/4" C, 3#4, 1#8G	70
[G3]	1 1/4" C, 3#3, 1#8G	80
[H3]	1 1/2" C, 3#2, 1#8G	90
[J3]	1 1/2" C, 3#1, 1#8G	100
[K3]	2" C, 3#1/0, 1#6G	150
[L3]	2" C, 3#2/0, 1#6G	175
[M3]	2" C, 3#3/0, 1#6G	200
[N3]	2 1/2" C, 3#4/0, 1#4G	225
[P3]	2 1/2" C, 3-250KCMIL, 1#4G	250
[Q3]	3 1/2" C, 3-500KCMIL, 1#3G	350
[R3]	2 EA, 2" C, 3-3/0, 1#3G	400
[S3]	2 EA, 2 1/2" C, 3-250KCMIL, 1#2G	500
[T3]	2 EA, 3" C, 3-350KCMIL, 1#1G	600
[U3]	2 EA, 4" C, 3-500KCMIL, 1#1/0G	700
[V3]	2 EA, 5" C, 3-600KCMIL, 1#1/0G	800
[W3]	3 EA, 3 1/2" C, 3-500KCMIL, 1#2/0G	1000
[X3]	4 EA, 3" C, 3-350KCMIL, 1#3/0G	1200
[Y3]	5 EA, 4" C, 3-500KCMIL, 1#4/0G	1600
[Z3]	6 EA, 4" C, 3-500KCMIL, 1-250KCMIL G	2000
[ZA3]	6 EA, 4" C, 3-600KCMIL, 1-250KCMIL G	2500
[ZB3]	8 EA, 4" C, 3-600KCMIL, 1-600KCMIL G	3000
[ZC3]	8 EA, 4" C, 3-600KCMIL, 1-600KCMIL G/N	3000
[ZD3]	10 EA, 4" C, 3-600KCMIL, 1-600KCMIL G	4000

CKT I.D.	CONDUIT AND CONDUCTOR SIZE
[A1]	3/4" C, 2#14, 1#14G
[B1]	3/4" C, 3#14, 1#14G
[C1]	3/4" C, 4#14, 1#14G
[D1]	3/4" C, 5#14, 1#14G
[E1]	3/4" C, 6#14, 1#14G
[F1]	3/4" C, 7#14, 1#14G
[G1]	1" C, 9#14, 1#14G
[H1]	1" C, 11#14, 1#14G
[J1]	1 1/2" C, 30#14, 1#14G
[K1]	1 1/4" C, 7/C TYPE A
[L1]	1 1/4" C, 12/C TYPE A
[M1]	1 1/2" C, 19/C TYPE A
[N1]	2" C, 25/C TYPE A
[P1]	2" C, 37/C TYPE A
[Q1]	3/4" C, 1#16, TW PR
[R1]	3/4" C, 1-TYPE B, TW SHLD PR
[S1]	1" C, 2-TYPE B, TW SHLD PR
[T1]	1 1/4" C, 3-TYPE B, TW SHLD PR
[U1]	1 1/4" C, 4-TYPE B, TW SHLD PR
[V1]	2" C, 8-TYPE B, TW SHLD PR
[W1]	1" C, 1-BELDEN 3092A CONTROLNET
[X1]	3" C, 100#14, 1#12G
[Y1]	2" C, 20#14, 1#14G
[Z1]	2" C, 14-TYPE B, TW SHLD PR

CKT I.D.	CONDUIT AND CONDUCTOR SIZE	AMPS
[A4]	3/4" C, 4#12, 1#12G	20
[B4]	3/4" C, 4#10, 1#10G	30
[C4]	1" C, 4#8, 1#10G	40
[D4]	1 1/4" C, 4#6, 1#10G	50
[E4]	1 1/4" C, 4#4, 1#10G	60
[F4]	1 1/4" C, 4#4, 1#8G	70
[G4]	1 1/2" C, 4#3, 1#8G	80
[H4]	1 1/2" C, 4#2, 1#8G	90
[J4]	2" C, 4#1, 1#8G	100
[K4]	2" C, 4#1/0, 1#6G	150
[L4]	2 1/2" C, 4#2/0, 1#6G	175
[M4]	2 1/2" C, 4#3/0, 1#6G	200
[N4]	3" C, 4#4/0, 1#4G	225
[P4]	3" C, 4-250KCMIL, 1#4G	250
[Q4]	3 1/2" C, 4-350KCMIL, 1#3G	300
[R4]	2 EA, 2 1/2" C, 4#3/0, 1#3G	400
[S4]	2 EA, 3" C, 4-250KCMIL, 1#2G	500
[T4]	2 EA, 4" C, 4-350KCMIL, 1#1G	600
[U4]	2 EA, 4" C, 4-500KCMIL, 1#1/0 G	700
[V4]	3 EA, 4" C, 4-350KCMIL, 1#1/0 G	800
[W4]	3 EA, 4" C, 4-500KCMIL, 1#2/0 G	1000
[X4]	4 EA, 4" C, 4-350KCMIL, 1#3/0 G	1200
[Y4]	5 EA, 4" C, 4-500KCMIL, 1#4/0 G	1600
[Z4]	6 EA, 4" C, 4-500KCMIL, 1-250KCMIL G	2000

CKT I.D.	CONDUIT AND CONDUCTOR SIZE	AMPS
[A2]	3/4" C, 2#12, 1#12G	15
[B2]	3/4" C, 2#12, 1#12G	20
[C2]	3/4" C, 2#10, 1#10G	30
[D2]	3/4" C, 2#8, 1#10G	40
[E2]	1" C, 2#6, 1#10G	50
[F2]	1" C, 2#4, 1#10G	60
[G2]	1" C, 2#4, 1#8G	70
[H2]	1 1/4" C, 2#3, 1#8G	80
[J2]	1 1/4" C, 2#2, 1#8G	90
[K2]	1 1/4" C, 2#1, 1#8G	100
[L2]	1 1/2" C, 2#1/0, 1#6G	150
[M2]	1 1/2" C, 2#2/0, 1#6G	175
[N2]	2" C, 2#3/0, 1#6G	200
[P2]	2" C, 2#4/0, 1#4G	225
[Q2]	2 1/2" C, 2-250KCMIL, 1#4G	250
[R2]	2 1/2" C, 2-350KCMIL, 1#4G	300
[S2]		
[T2]		
[U2]		
[V2]		
[W2]		
[X2]		
[Y2]		
[Z2]		

[A]	3/4" C, EMPTY
[B]	2" C, EMPTY
[C]	2 1/2" C, EMPTY
[D]	1 1/4" C, 4#12, 1#12G
[E]	1 1/2" C, 3#10, 3#14G ARMORED CABLE
[F]	1 1/4" C, 3#8, 1#10G
[G]	1 1/4" C, 5-TYPE B, TW SHLD PR
[H]	2 1/2" C, 15-TYPE B, TW SHLD PR
[I]	1" C, 14#14, 1#14G
[J]	2 1/2" C, 3-2/0, 3#6G VFD CABLE
[K]	1" C, EMPTY
[L]	4" C, WITH INNERDUCT FOR FO
[M]	2" C, 4-CAT 6e
[N]	2" C, FOR FIBER OPTIC CABLES
[O]	3" C, 3-350KCMIL, 1#3G
[P]	3" C, 4#300KCMIL, 1#3G
[Q]	8EA, 4" C, 3-500KCM, 1-350KCMG
[R]	11/2" C, 40#14, 1#14G
[S]	11/4" C, 20#14, 2#12, 1#12G
[T]	4" C-3#600KCM, 1#2G
[U]	1" C, CAT 6
[V]	1" C, I&C SUPPLIED CABLE, 1#14G
[W]	2" C, 60#14, 1#14G
[Y]	3" C, 18-TYPE B, TW SHLD PR
[Z]	1" C, 1-CAT 6e
[B6]	1 1/4" C, 3#10, 3#14G ARMORED CABLE
[C6]	1 1/4" C, 3#8, 3#14G ARMORED CABLE
[D6]	2" C, 3#2, 3#10G VFD CABLE
[E6]	1 1/2" C, 3#4, 3#12G VFD CABLE
[G6]	2" C, 3#2, 3#10G VFD CABLE
[K6]	2 1/2" C, 3#1/0, 3#10G VFD CABLE
[L6]	3" C, 3#2/0, 3#8G VFD CABLE
[M6]	2 1/2" C, 3#3/0, 1#4G VFD CABLE
[N6]	3 1/2" C, 3#4/0, 3#4G VFD CABLE
[R6]	2 EA, 3" C, 3#3/0, 3#4G
[S6]	2 EA, 3" C, 3-250KCMIL, 3#4G
[Q6]	4" C, 3#500KCM, 3#1G VFD CABLE

YC #	CONDUIT AND WIRES	FROM	TO	REMARKS
YC01	SEE DWG. 00E02	EXISTING PB-6 @ NESAWWTP ELECTRICAL ROOM	DIW-PP @ DEEP INJECTION WELL NO.1	00E01
YC02	SEE DWG. 00E02	DIW-PP @ DEEP INJECTION WELL NO.1	PMP-03 @ MONITORING WELL	00E01
YC03	SEE DWG. 00E02	DIW-PP @ DEEP INJECTION WELL NO.1	PMP-04 @ MONITORING WELL	00E01
YC04	SEE DWG. 00E02	DIW-PP @ DEEP INJECTION WELL NO.1	PMP-02 @ DEEP INJECTION WELL NO.2	00E01
YC05	SEE DWG. 00E02	DIW-PP @ DEEP INJECTION WELL NO.1	VAL-02 @ DEEP INJECTION WELL NO.2	00E01
YC06	SEE DWG. 00E02	DIW-LP @ DEEP INJECTION WELL NO.1	PCM-DIW2 @ DEEP INJECTION WELL NO.2	00E01
YC07	NOT USED			
YC08	NOT USED			
YC09	NOT USED			
YC10	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	PMP-03 @ MONITORING WELL	00E01
YC11	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	PMP-04 @ MONITORING WELL	00E01
YC12	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	PMP-05 @ MONITORING WELL	00E01
YC13	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	LSH-03 @ MONITORING WELL	00E01
YC14	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	DIW-SCADA @ NESAWWTP ELECTRICAL ROOM	00E01
YC15	SEE DWG. 00E03	PCM-DIW2 @ DEEP INJECTION WELL NO.1	DIW-SCADA @ NESAWWTP ELECTRICAL ROOM	00E01
YC16	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	PCM-DIW2 @ DEEP INJECTION WELL NO.1	00E01
YC17	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	PIT-05 @ MONITORING WELL	00E01
YC18	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	PIT-06 @ MONITORING WELL	00E01
YC19	SEE DWG. 00E02	PCM-DIW1 @ DEEP INJECTION WELL NO.1	FIT-103 @ MONITORING WELL	00E01
YC20	SEE DWG. 00E02	PCM-DIW1 @ DEEP INJECTION WELL NO.1	FIT-104 @ MONITORING WELL	00E01
YC21	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	FIT-103 @ MONITORING WELL	00E01
YC22	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	FIT-103 @ MONITORING WELL	00E01
YC23	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	FIT-104 @ MONITORING WELL	00E01
YC24	SEE DWG. 00E03	PCM-DIW1 @ DEEP INJECTION WELL NO.1	FIT-104 @ MONITORING WELL	00E01

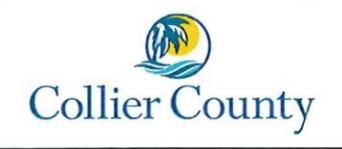
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REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED	ADS
DRAWN	MDG
CHECKED	ADS
DATE	OCTOBER 2025



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COLLIER COUNTY	
NORTHEAST WRF/WTP -DIW CONVEYANCE	
ELECTRICAL	
SCHEDULES SHEET NO.1	

VERIFY SCALES	JOB NO. 71261.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00E04
0 1"	SHEET NO. 32 OF 62
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

EXISTING PANELBOARD DP-1 SCHEDULE															
BUS AMPS			LOAD	POLES	AMPS	BUS A B C			AMPS	POLES	LOAD	BUS AMPS			
A	B	C				A	B	C				A	B	C	
100.0			TRANSFORMER T1 75KVA, 12/240	2	200	1	A		2	30	3	SPD DEVICE	0.0		
	100.0					3	B		4						
		40.0	TRANSFORMER T2 25KVA, 12/240	2	70	5		C	6						0.0
40.0						7	A		8	20	3	CLARIFIER #1	2.1		
	1.2		MOV-A POT. WTR TANK BYPASS MODE	3	20	9	B		10				2.1		
		1.2				11		C	12						2.1
	1.2					13	A		14	20	3	CLARIFIER #2	2.1		
		1.2	MOV-B DIVERT TO WTR TANK	3	20	15	B		16				2.1		
	1.2					17		C	18						2.1
		1.2				19	A		20	30	3	ELECTRICAL ROOM A/C #1	21.3		
	1.2		MOV-C POT. WTR TANK BOOSTER MODE	3	20	21	B		22				21.3		
		1.2				23		C	24						21.3
	1.2					25	A		26	30	3	ELECTRICAL ROOM A/C #2	21.3		
		1.2	MOV-D POT. WTR TANK REPUMP MODE	3	20	27	B		28				21.3		
	1.2					29		C	30						21.3
		1.2				31	A		32	20	3	MIXER CONTROL PANEL	14.0		
	40.0		DP-5 CL TANKS DIST. PANEL	3	100	33	B		34				14.0		
		40.0				35		C	36						14.0
	40.0					37	A		38	20	3	ODOR CONTROL SYSTEM	14.0		
		44.3	DIW-PP DEEP INJECTION WELL PANEL	3	100	39	B		40						14.0
		43.4				41		C	42						14.0
	43.4					43	A		44	20	3	SECURITY GATE	0.0		
			SPACE			45	B		46						0.0
						47		C	48						0.0
						49	A		50	20	3	SPARE			
			SPACE			51	B		52						
						53		C	54						
						55	A		56	20	3	SPARE			
			SPACE			57	B		58						
						59		C	60						
						61	A		62	20	3	SPARE			
			SPACE			63	B		64						
						65		C	66						

TOTAL AMPS: BUS A: 303.0A BUS B: 263.9A BUS C: 203.0A CONNECTED KVA: 213.4KVA RUNNING KVA:

RATED VOLTAGE: 120/208 480 3 PHASE, 3 WIRE BRANCH POLES 12 24 30 42 54 60 72
 RATED AMPS: 100 225 400 600 CABINET: SURFACE FLUSH
 NEUTRAL BUS 100% 150% 200% GROUND BUS HINGED DOOR KEYED DOOR LATCH LOCATION: NESA WWTP ELECTRICAL ROOM
 CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES TVSS ENCLOSURE TYPE: NEMA 1 NEMA 3R NEMA 4X SS
 MAIN LUGS ONLY MAIN 600 AMPS BREAKER TO BE GFI BREAKERS
 PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 65,000 AMPS SYMMETRICAL.
 APPROVED MFRS. SEE SPECIFICATION. COPPER BUSES MAIN LUGS SETS SIZE:

PANELBOARD DIW-LP SCHEDULE															
BUS AMPS			LOAD	POLE S	AMPS	BUS A B C			AMPS	POLE S	LOAD	BUS AMPS			
A	B	C				A	B	C				A	B	C	
9.0			PMP-05 DZMW SUMP PUMP	1	20	1	A		2	20	1	SPARE			
	7.0		PCM-DIW1 DIW NO.1 CONTROL PANEL	1	20	3	B		4	20	1	SPARE			
		7.0	PCM-DIW1 DIW NO.1 CONTROL PANEL	1	20	5		C	6	20	1	SPARE			
			SPARE	1	20	7	A		8	20	1	SPARE			
			SPARE	1	20	9	B		10	20	1	SPARE			
			SPARE	1	20	11		C	12	20	1	SPARE			

TOTAL AMPS: BUS A: 9.0A BUS B: 7.0A BUS C: 7.0A CONNECTED KVA: 2.8KVA RUNNING KVA:

RATED VOLTAGE: 120/208 480 3 PHASE, 4 WIRE BRANCH POLES 12 24 30 42 54 60 72
 RATED AMPS: 100 225 400 CABINET: SURFACE FLUSH
 NEUTRAL BUS 100% 150% 200% GROUND BUS HINGED DOOR KEYED DOOR LATCH LOCATION: DEEP INJECTION WELL
 CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES TVSS ENCLOSURE TYPE: NEMA 1 NEMA 3R NEMA 4X SS
 MAIN LUGS ONLY MAIN 100 AMPS BREAKER TO BE GFI BREAKERS
 PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMPS SYMMETRICAL.
 APPROVED MFRS. SEE SPECIFICATION. COPPER BUSES MAIN LUGS SETS SIZE:

EXISTING PANELBOARD DP-2 SCHEDULE														
BUS AMPS			LOAD	POLES	AMPS	BUS A B C			AMPS	POLES	LOAD	BUS AMPS		
A	B	C				A	B	C				A	B	
0.0			SPD DEVICE	2	20	1	A		2	15	1	WHEATHER STATION CP	5.0	
	0.0					3	B		4	60	1	CHLORAMINE SYSTEM CP		10.0
		5.0	IQ WATER PLC CP	1	20	5	A		6				10.0	
		5.0	PLANT PUMP STA. PLC CP	1	20	7	B		8	150	4	OPERATIONS BUILDING DIST PANEL "O"		112.4
		20.0	PLANT PLC CP	2	30	9	A		10				112.4	
	20.0					11	B		12					0.0
		5.0	POTABLE WATER PLC CP	1	20	13	A		14				0.0	
		6.0	ELEC. ROOM RECEPTS EXTERIOR	1	20	15	B		16	30	1	GENERATOR #1		10.0
		6.0	ELEC. ROOM RECEPTS INTERIOR	1	20	17	A		18				10.0	
		6.0	ELEC. ROOM EXIT & EMER. LIGHTS	1	20	19	B		20	30	1	GENERATOR #2		10.0
		30.0	WATE WATER AREA DP-3	2	60	21	A		22				10.0	
		30.0				23	B		24	30	1	GENERATOR #3		10.0
		5.0	IT CABINET	1	20	25	A		26				10.0	
		5.0	DIW-SCADA NETWORK PANEL	1	20	27	B		28	20	1	SPARE		
			SPARE	1	20	29	A		30	20	1	SPARE		
			SPARE	1	20	31	B		32	20	1	SPARE		
			SPARE	1	20	33	A		34	20	1	SPARE		
			SPARE	1	20	35	B		36	20	1	SPARE		
			SPARE	1	20	37	A		38	20	1	SPARE		
			SPARE	1	20	39	B		40	20	1	SPARE		
			SPARE	1	20	41	A		42	20	1	SPARE		

TOTAL AMPS: BUS A: 228.4A BUS B: 224.4A CONNECTED KVA: 54.3KVA RUNNING KVA:

RATED VOLTAGE: 120/240 480 1 PHASE, 3 WIRE BRANCH POLES 12 24 30 42 54 60 72
 RATED AMPS: 100 225 400 CABINET: SURFACE FLUSH
 NEUTRAL BUS 100% 150% 200% GROUND BUS HINGED DOOR KEYED DOOR LATCH LOCATION: NESA WWTP ELECTRICAL ROOM
 CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES TVSS ENCLOSURE TYPE: NEMA 1 NEMA 3R NEMA 4X SS
 MAIN LUGS ONLY MAIN 400 AMPS BREAKER TO BE GFI BREAKERS
 PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMPS SYMMETRICAL.
 APPROVED MFRS. SEE SPECIFICATION. COPPER BUSES MAIN LUGS SETS SIZE:

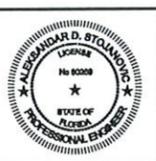
PANELBOARD DIW-PP SCHEDULE															
BUS AMPS			LOAD	POLES	AMPS	BUS A B C			AMPS	POLES	LOAD	BUS AMPS			
A	B	C				A	B	C				A	B	C	
3.9			DIW-LP DIW LIGHTING PANEL	3	30	1	A		2	20	3	VAL-102 DIW NO.2 VALVE	0.5		
	3.0					3	B		4					0.5	
		3.0				5		C	6						0.5
		5.7	PMP-101 DIW NO.1 SUMP PUMP	3	20	7	A		8	20	3	PMP-03 DZMW SAMPLE PUMP NO.1	14.0		
		5.7				9	B		10				14.0		
		5.7				11		C	12					14.0	
		0.5	VAL-101 DIW NO.1 VALVE	3	20	13	A		14	20	3	PMP-04 DZMW SAMPLE PUMP NO.2	14.0		
		0.5				15	B		16				14.0		
		0.5				17		C	18					14.0	
		5.7	PMP-102 DIW NO.2 SUMP PUMP	3	20	19	A		20	20	3	SPARE			
		5.7				21	B		22						
		5.7				23		C	24						

TOTAL AMPS: BUS A: 44.3A BUS B: 43.4A BUS C: 43.4A CONNECTED KVA: 36.3KVA RUNNING KVA:

RATED VOLTAGE: 120/208 480 3 PHASE, 3 WIRE BRANCH POLES 12 24 30 42 54 60 72
 RATED AMPS: 100 225 400 CABINET: SURFACE FLUSH
 NEUTRAL BUS 100% 150% 200% GROUND BUS HINGED DOOR KEYED DOOR LATCH LOCATION: DEEP INJECTION WELL
 CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES TVSS ENCLOSURE TYPE: NEMA 1 NEMA 3R NEMA 4X SS
 MAIN LUGS ONLY MAIN 100 AMPS BREAKER TO BE GFI BREAKERS
 PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 42,000 AMPS SYMMETRICAL.
 APPROVED MFRS. SEE SPECIFICATION. COPPER BUSES MAIN LUGS SETS SIZE:

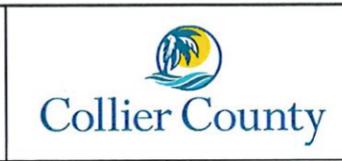
LAST SAVED BY: ADS

DESIGNED	ADS
DRAWN	MDG
CHECKED	ADS
DATE	OCTOBER 2025
REV	DATE BY DESCRIPTION
1	10/25 RC BID SET
2	10/25 RC DESCRIPTION



CADS Engineering
 4701 N FEDERAL HWY, STE 390
 POMPANO BEACH, FL 33064
 PHONE (561) 210-5715

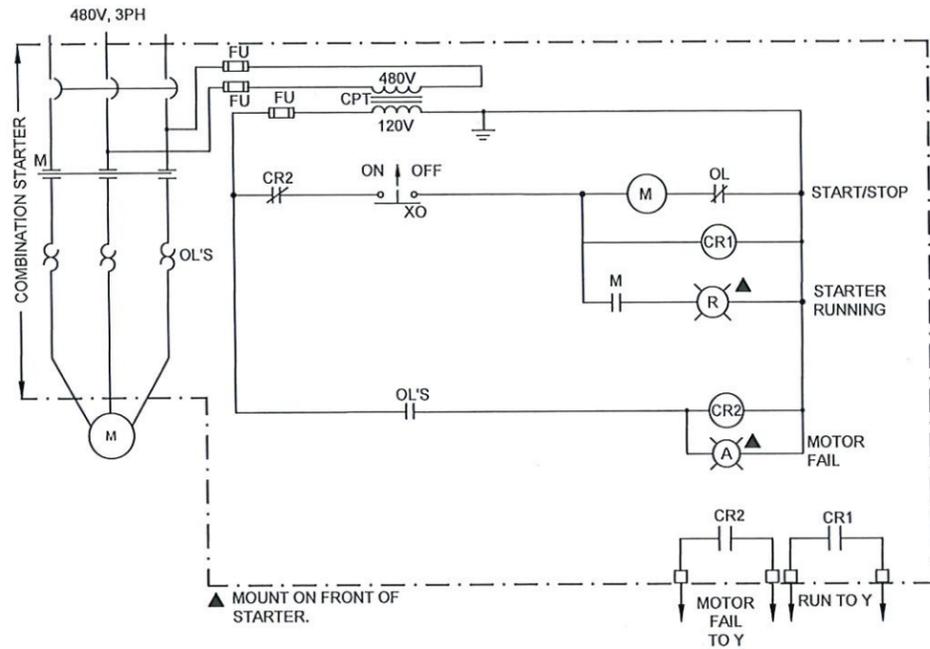
carollo
 301 North Cattlemen Road, Suite 302
 Sarasota, FL 34232
 Phone: 941-371-9832
 CA No. 00008571



COLLIER COUNTY
 NORTHEAST WRF/WTP - DIW CONVEYANCE
 ELECTRICAL
 SCHEDULES SHEET NO.2

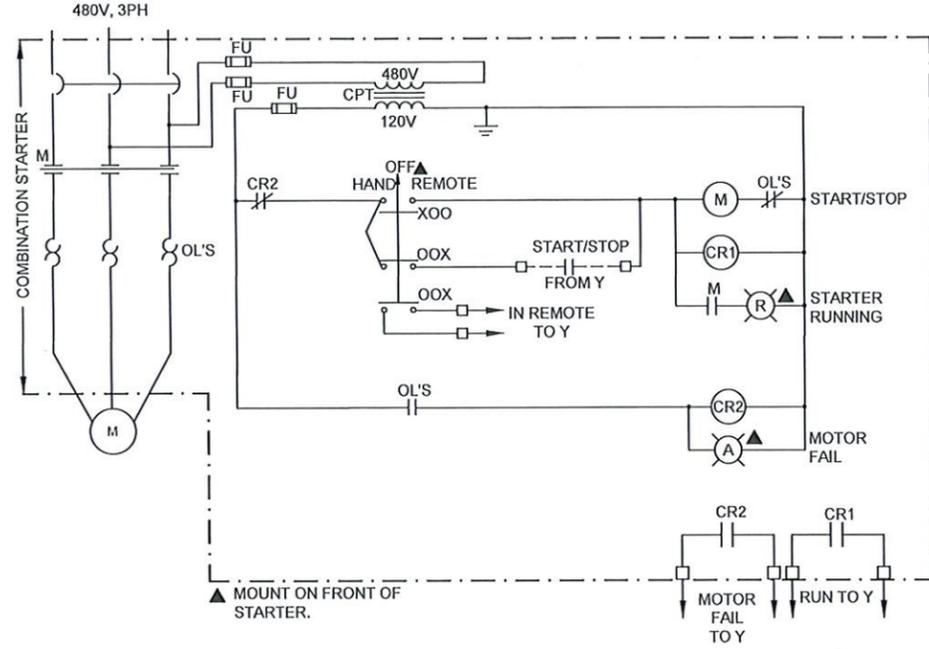
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" SCALE
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 71261.10
 DRAWING NO. 00E05
 SHEET NO. 33 OF 62



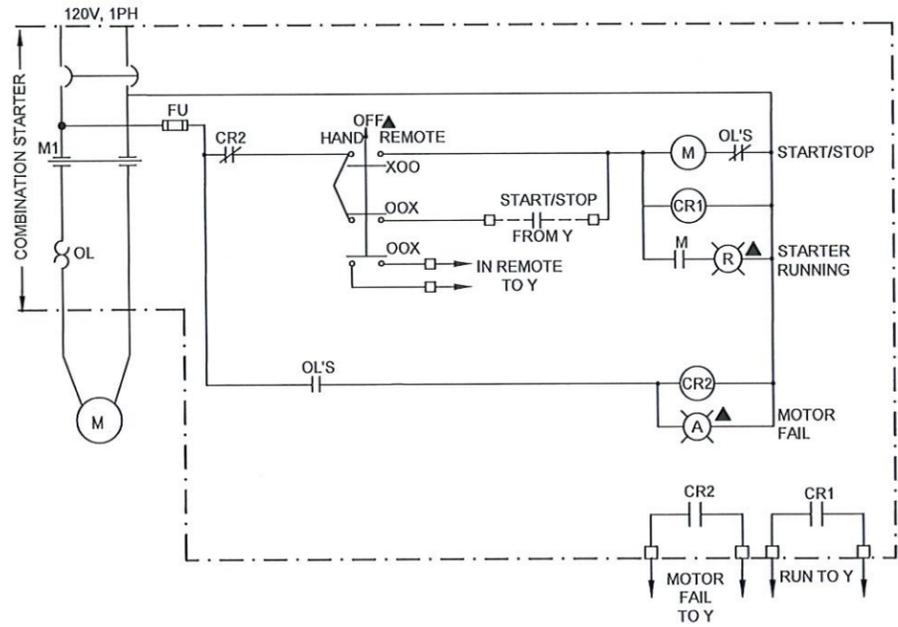
DZMW SAMPLE PUMP - PMP-0X

SCALE: NTS
 X=3,4
 Y=PCM-DIW1, PCM-DIW2



DIW NO.X SUMP PUMP - PMP-0X

SCALE: NTS
 X=1,2
 Y=PCM-DIW1, PCM-DIW2



DZMW SUMP PUMP PMP-05

SCALE: NTS
 Y=PCM-DIW1

LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

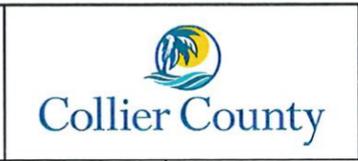
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 ADS
 DATE
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 Phone: 941-371-9832
 CA No. 00008571



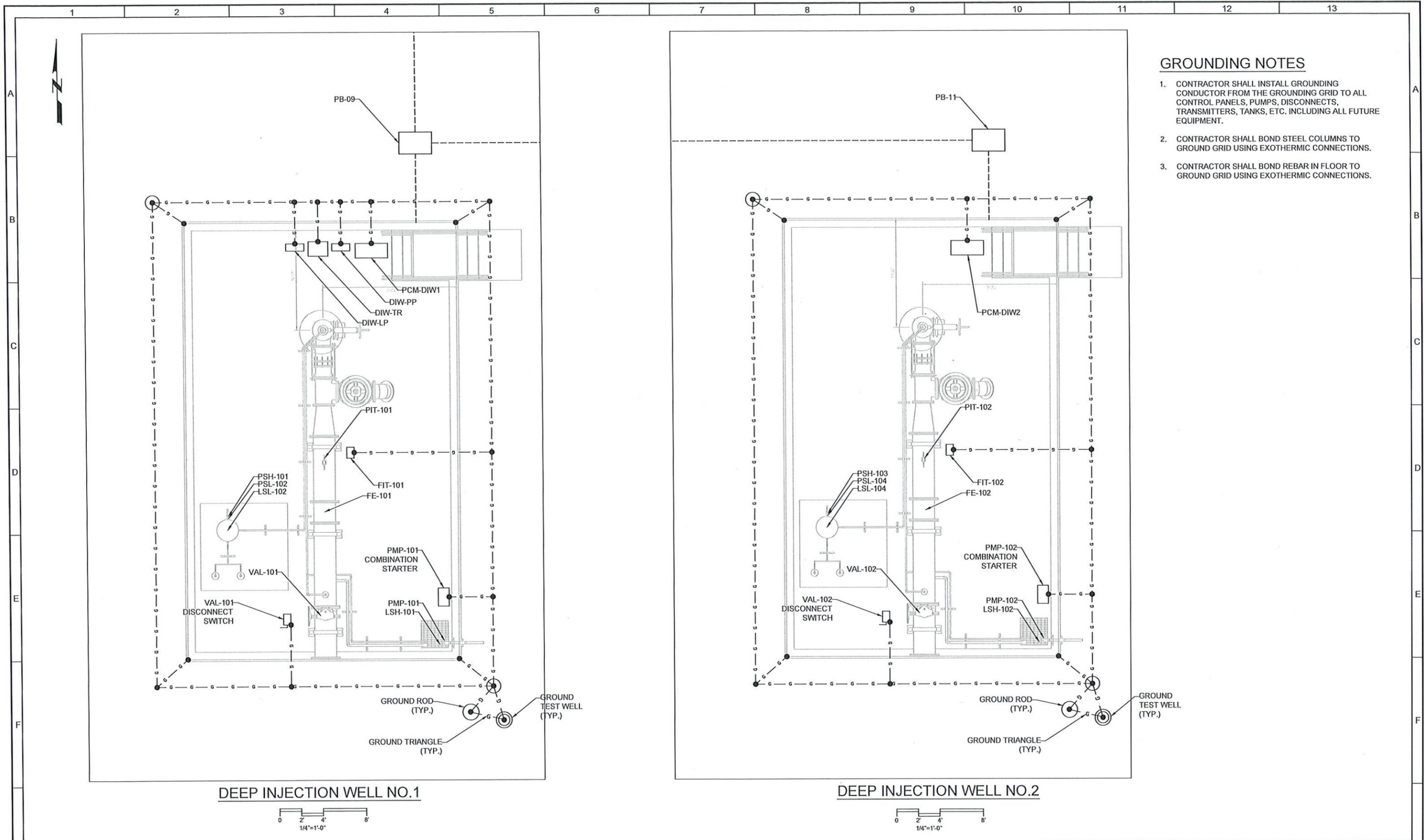
COLLIER COUNTY
 NORTHEAST WRF/WTP -DIW CONVEYANCE
 ELECTRICAL
 SCHEMATICS SHEET NO. 1

VERIFY SCALES
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JOB NO.
 71261.10

DRAWING NO.
 00E06

SHEET NO.
 34 OF 62

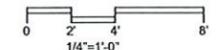
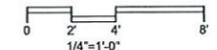


GROUNDING NOTES

1. CONTRACTOR SHALL INSTALL GROUNDING CONDUCTOR FROM THE GROUNDING GRID TO ALL CONTROL PANELS, PUMPS, DISCONNECTS, TRANSMITTERS, TANKS, ETC. INCLUDING ALL FUTURE EQUIPMENT.
2. CONTRACTOR SHALL BOND STEEL COLUMNS TO GROUND GRID USING EXOTHERMIC CONNECTIONS.
3. CONTRACTOR SHALL BOND REBAR IN FLOOR TO GROUND GRID USING EXOTHERMIC CONNECTIONS.

DEEP INJECTION WELL NO.1

DEEP INJECTION WELL NO.2



DESIGNED	ADS		
DRAWN	MDG		
CHECKED	ADS		
DATE	OCTOBER 2025		
REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

4701 N FEDERAL HWY, STE 390
 POMPANO BEACH, FL 33064
 PHONE (561) 210-5715

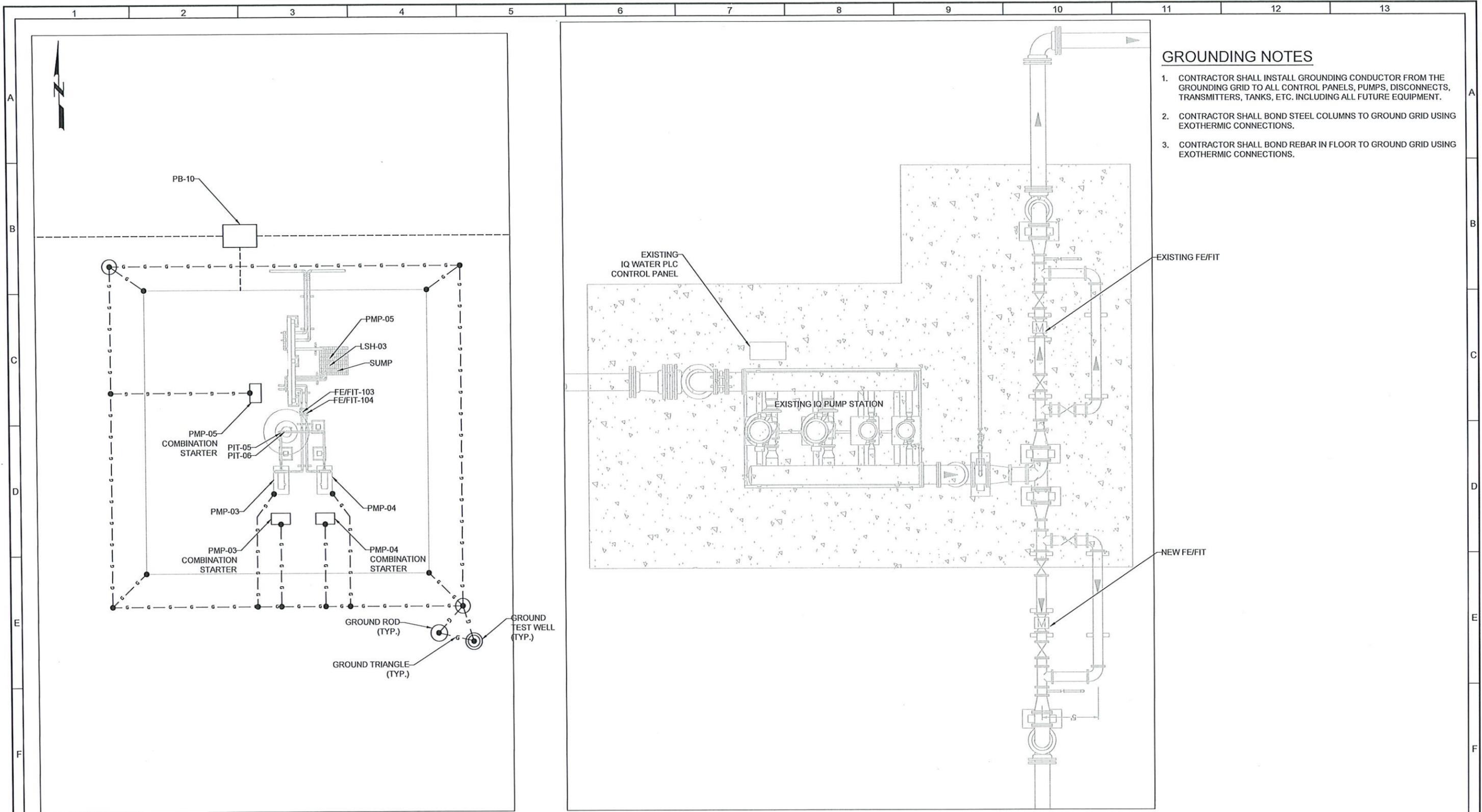
301 North Cattlemen Road, Suite 302
 Sarasota, FL 34232
 Phone: 941-371-9832
 CA No. 00008571

COLLIER COUNTY
 NORTHEAST WRF/WTP -DIW CONVEYANCE
 ELECTRICAL
DEEP INJECTION WELLS LAYOUT

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

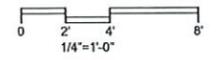
JOB NO. 71261.10
 DRAWING NO. 00E07
 SHEET NO. 35 OF 62



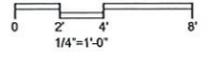
GROUNDING NOTES

1. CONTRACTOR SHALL INSTALL GROUNDING CONDUCTOR FROM THE GROUNDING GRID TO ALL CONTROL PANELS, PUMPS, DISCONNECTS, TRANSMITTERS, TANKS, ETC. INCLUDING ALL FUTURE EQUIPMENT.
2. CONTRACTOR SHALL BOND STEEL COLUMNS TO GROUND GRID USING EXOTHERMIC CONNECTIONS.
3. CONTRACTOR SHALL BOND REBAR IN FLOOR TO GROUND GRID USING EXOTHERMIC CONNECTIONS.

MONITORING WELL



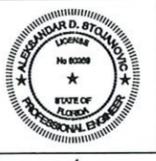
METERING STATION



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REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED ADS
DRAWN MDG
CHECKED ADS
DATE OCTOBER 2025



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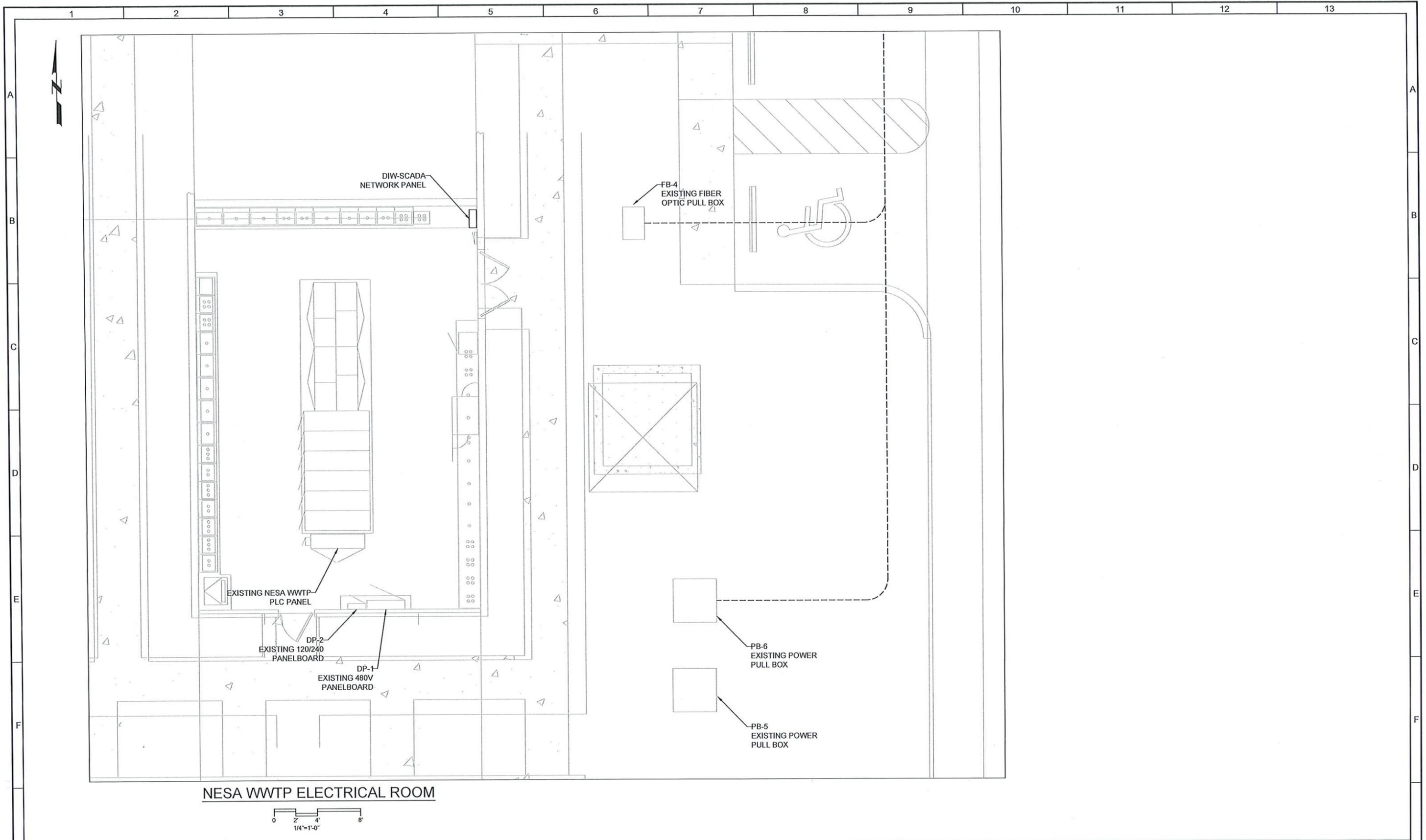
CADS Engineering
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POMPANO BEACH, FL 33064
PHONE (561) 210-5715

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301 North Cattlemen Road, Suite 302
Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
ELECTRICAL
MONITORING WELL AND METERING STATION LAYOUT

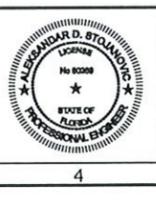
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 71261.10 DRAWING NO. 00E08 SHEET NO. 36 OF 62
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LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

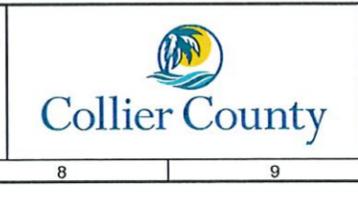
DESIGNED
ADS
DRAWN
MDG
CHECKED
ADS
DATE
OCTOBER 2025



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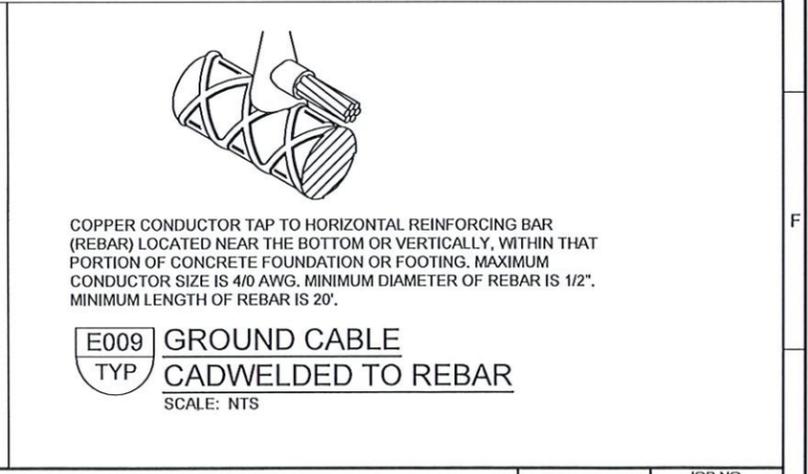
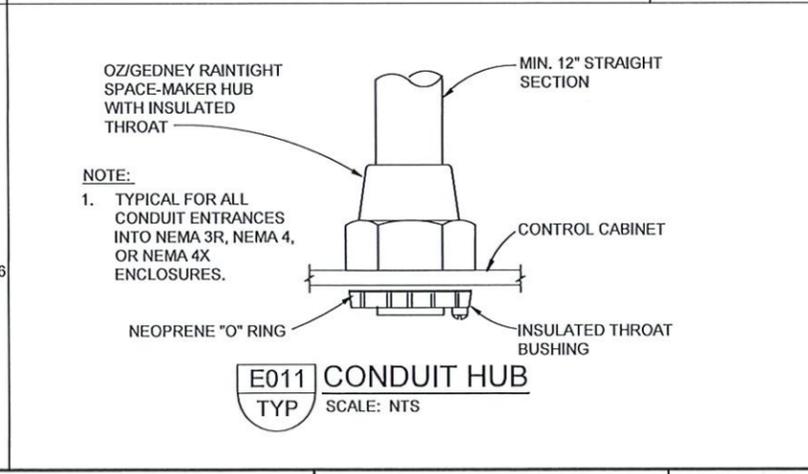
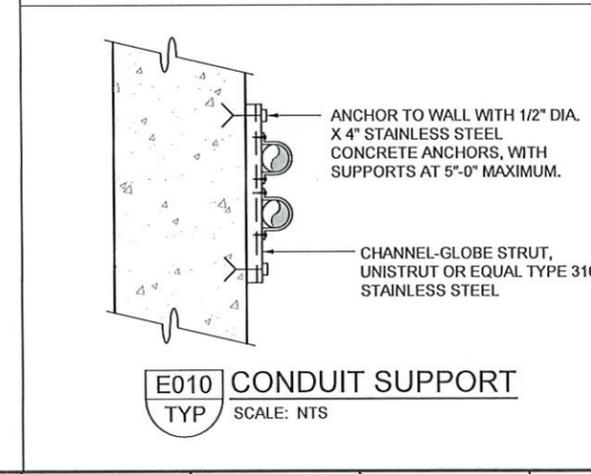
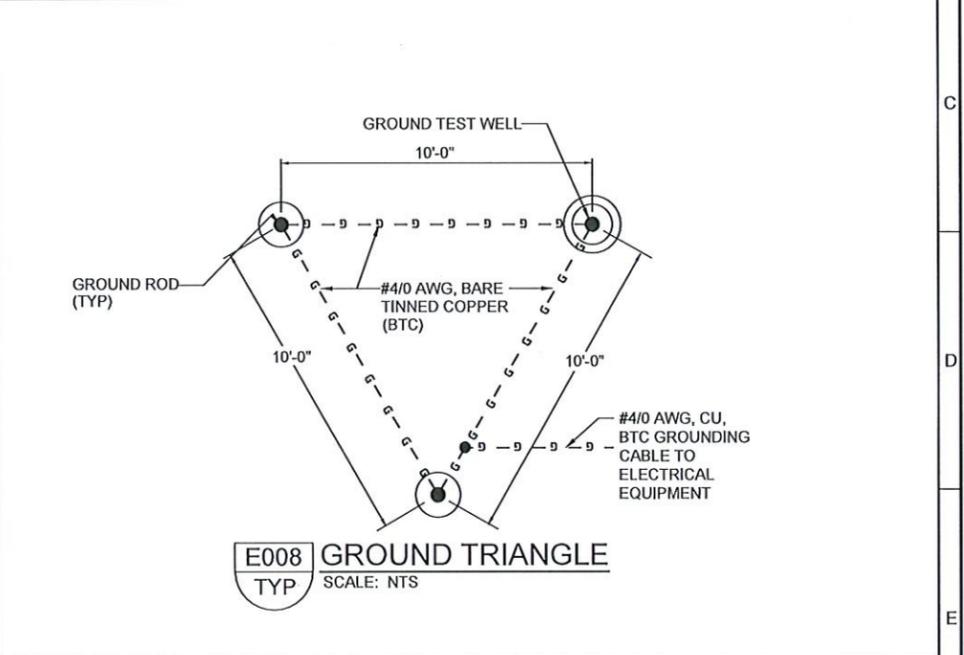
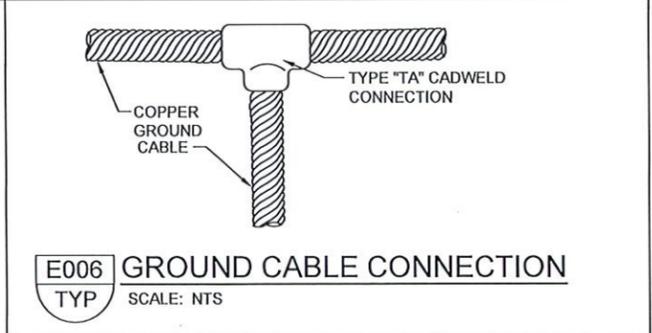
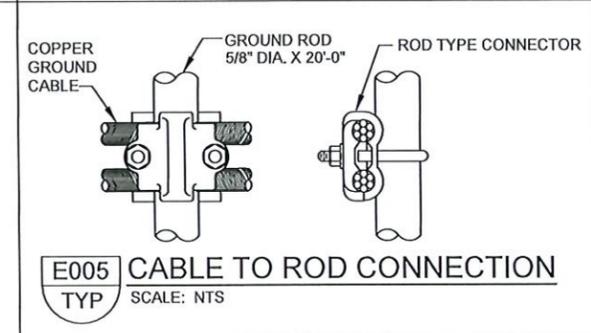
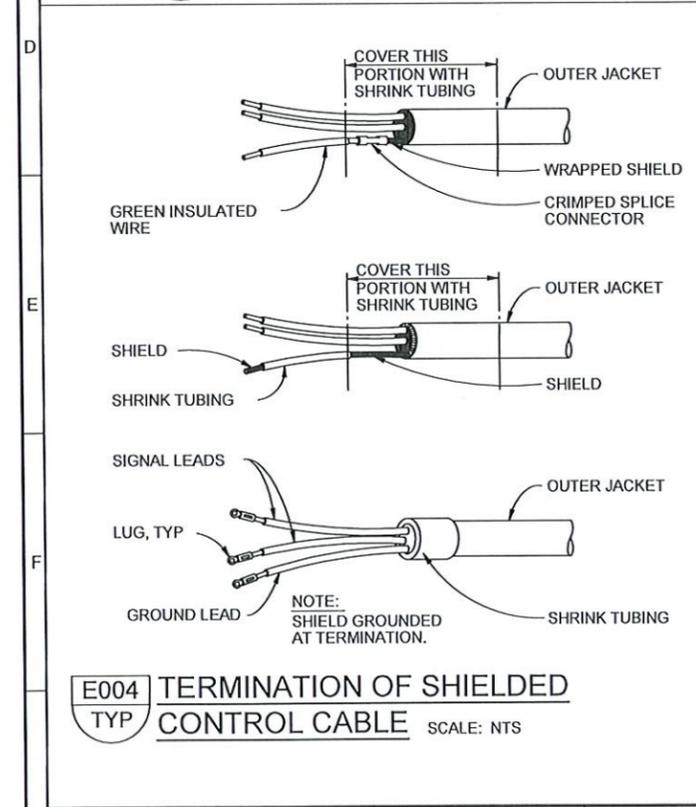
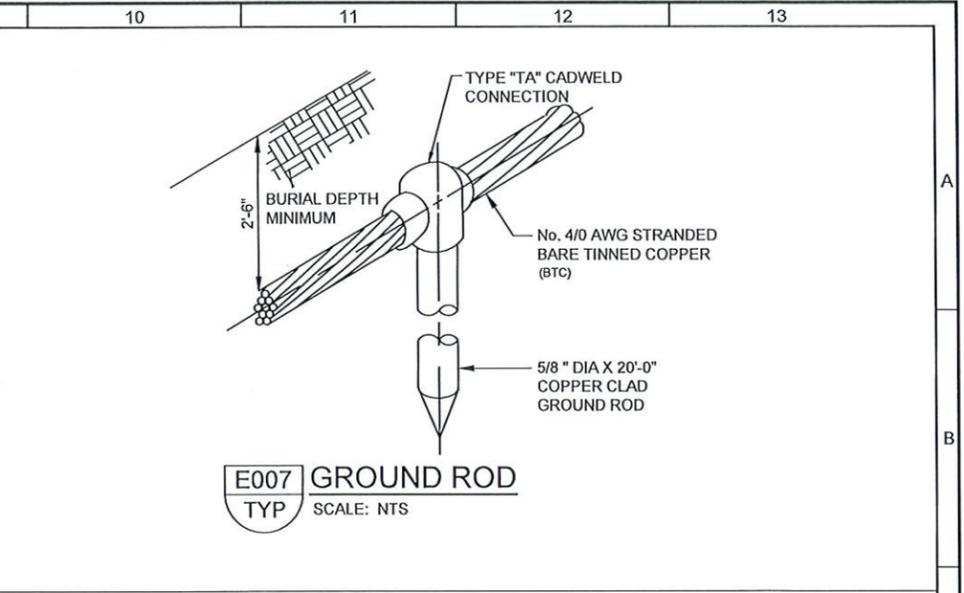
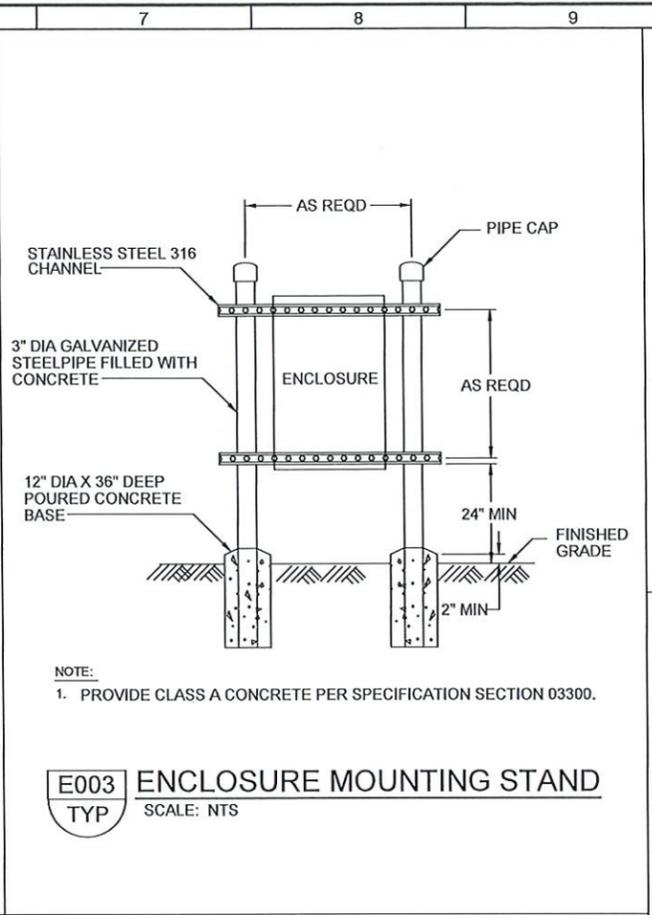
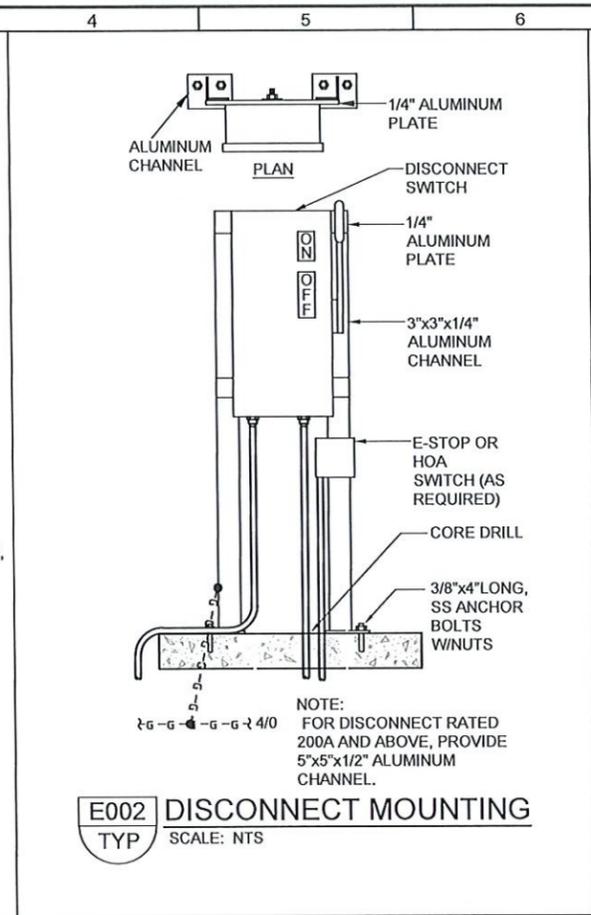
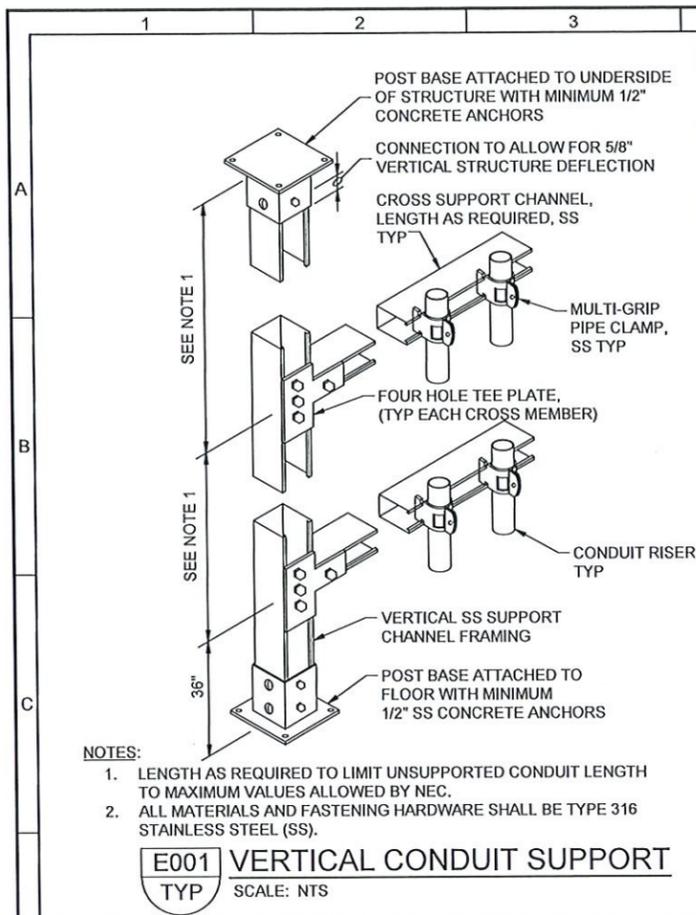
ADS Engineering
4701 N FEDERAL HWY, STE 390
POMPAN BEACH, FL 33064
PHONE (561) 210-5715

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Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

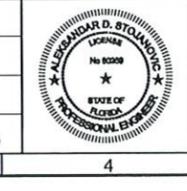


COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
ELECTRICAL
NESAWWTP ELECTRICAL ROOM

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 71261.10 DRAWING NO. 00E09 SHEET NO. 37 OF 62
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DESIGNED	ADS		
DRAWN	MDG		
CHECKED	ADS		
DATE	OCTOBER 2025		
REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET
2			



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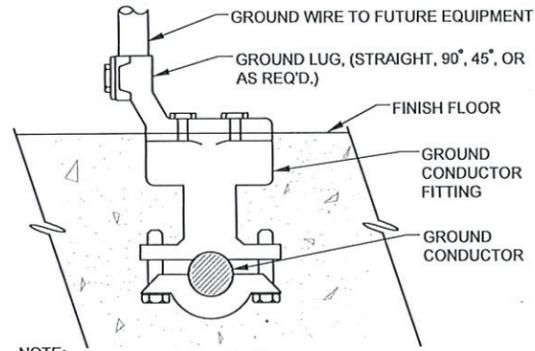
CADS Engineering
4701 N FEDERAL HWY, STE 390
POMPAN BEACH, FL 33064
PHONE (561) 210-5715

carollo
301 North Cattlemen Road, Suite 302
Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
ELECTRICAL
DETAILS SHEET NO. 1

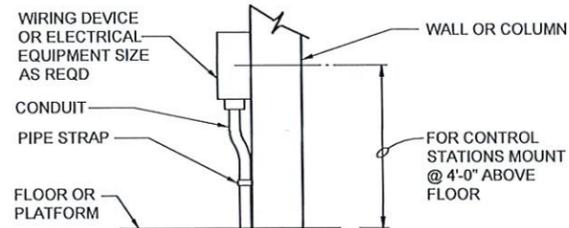
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 71261.10
DRAWING NO. 00E10
SHEET NO. 38 OF 62



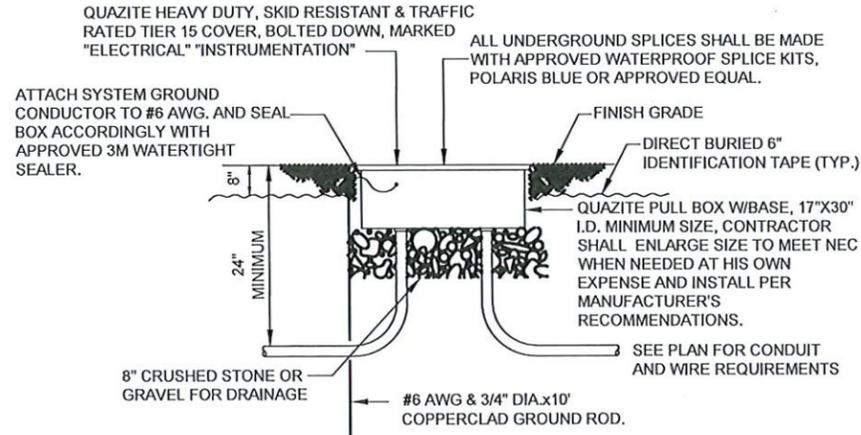
NOTE:
1. BOLTS SHALL BE INSERTED IN BOLT HOLES BEFORE CONNECTOR IS EMBEDDED.

E014 GROUNDING INSERT
TYP SCALE: NTS

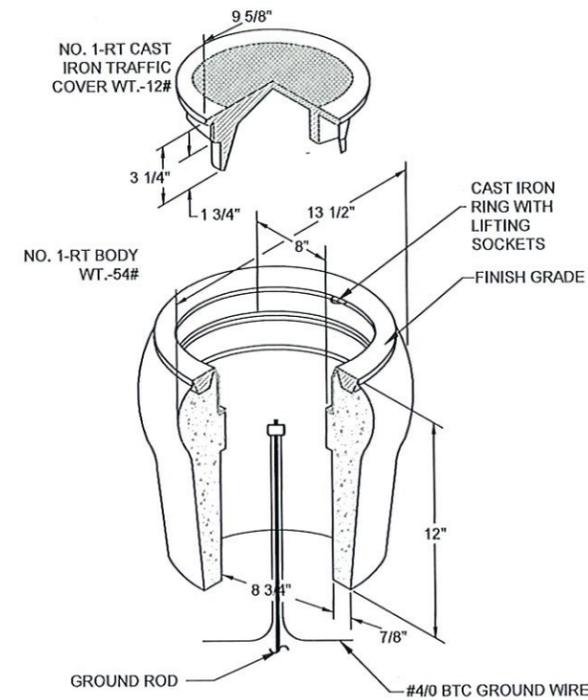


NOTE:
1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL 316. ON CONCRETE WALLS, USE MALLEABLE IRON INSERTS, MOUNT ENCLOSURE ON 1/4" SPACERS OF 1/2" RIGID CONDUIT.

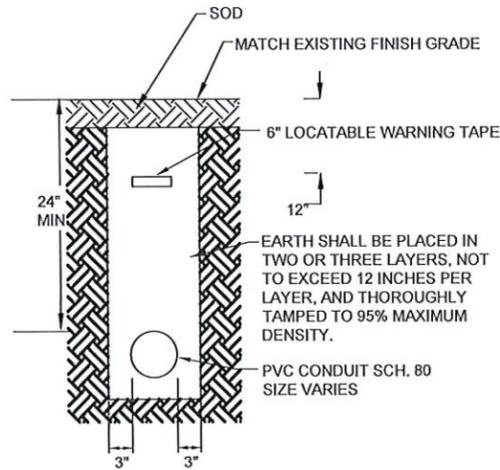
E013 WALL OR COLUMN MOUNTED DEVICE
TYP SCALE: NTS



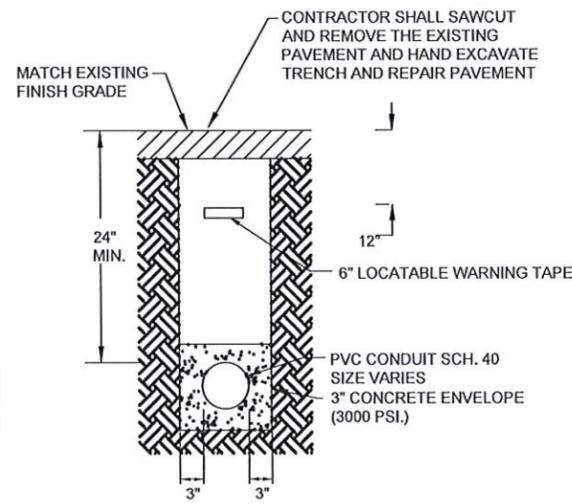
E014 QUAZITE PULL BOX DETAIL
TYP SCALE: NTS



E015 GROUND TEST WELL
TYP SCALE: NTS

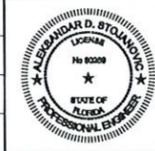


E016 TYPICAL DIRECT BURIED CONDUIT
TYP SCALE: NTS



E017 TYPICAL CONDUIT INSTALLED UNDER NEW/EXISTING PAVEMENT
TYP SCALE: NTS

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CHECKED	ADS		
DATE	OCTOBER 2025		
REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET



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COLLIER COUNTY		VERIFY SCALES	JOB NO. 71261.10
NORTHEAST WRF/WTP -DIW CONVEYANCE		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00E11
ELECTRICAL		0 1"	SHEET NO.
DETAILS SHEET NO.2		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	39 OF 62

Plot Date: 07-NOV-2025 8:26:13 AM
 User: svcpw
 Plot Scale: 1:1
 Design Script: Carollo_Sld_Pen_v0905.pen
 Color Table: gshado.cdb
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 dlmada

SYMBOL	DRAWING VISIBLE FIELDS	FIELD - 1	FIELD - 2	FIELD - 3	FIELD - 4	FIELD - 5	FIELD - 6	FIELD - 7	FIELD - 8
HM/SCADA SYSTEM OPERATOR INTERFACE TERMINAL	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - DESCRIPTION 6 - EXISTING/FUTURE	REFER	REFER	ACTION ALARM SP - NUMERIC STATUS - SET POINT TREND	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE		
HARDWIRED I/O POINT	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - LOCATION 6 - EXISTING/FUTURE 7 - IO TABLE	REFER	REFER	AI - ANALOG INPUT AO - ANALOG OUTPUT DI - DISCRETE INPUT DO - DISCRETE OUTPUT RTD - RTD INPUT	DESCRIPTION	PAC - PROGRAMMABLE AUTOMATION CONTROLLER NO. PLC - PROGRAMMABLE LOGIC CONTROLLER NO. RIO - REMOTE I/O VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE		
NETWORK / SOFT I/O	1 - TAG 2 - LOOP NUMBER 3 - PROTOCOL 4 - PANEL 5 - PLC 6 - EXISTING/FUTURE 7 - IO TABLE 8 - SWITCH/SEGMENT	REFER	REFER	COMMUNICATION PROTOCOL CNET - CONTROLNET DNET - DEVICENET EIP - ETHERNET/IP FF - FOUNDATION FIELDBUS HART-1 - HART OVER ETHERNET MANF - MFR. PROPRIETARY MBRTU - MODBUS RTU MB+ - MODBUS PLUS MBTCP - MODBUS TCP DP - PROFIBUS DP PA - PROFIBUS PA PNET - PROFINET SNMP - SNMP HTTP - WEB SERVER (TCP/IP)	DESCRIPTION	PAC - PROGRAMMABLE AUTOMATION CONTROLLER NO. PLC - PROGRAMMABLE LOGIC CONTROLLER NO. RIO - REMOTE I/O VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE		
LOCAL OPERATOR INTERFACE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	ACTION ALARM SP - NUMERIC STATUS - SET POINT TREND	DESCRIPTION	LOI - LOCAL OPERATOR INTERFACE NO. LCP - LOCAL CONTROL PANEL NO. PCM - PROCESS CONTROL MODULE NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE		
PILOT DEVICE OPERATOR INTERFACE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	AM - AUTO/MANUAL BYPASS - BYPASS E-STOP - EMERGENCY STOP FRLR - FIXED RATE/LEVEL RATE HOA - HAND/OFF/AUTO LOR - LOCAL/OFF/REMOTE LOS - LOCK OUT STOP LS - LEAD/STANDBY LSR - LOCAL/STOP/REMOTE NOOT - NO OFF/LINE/OFFLINE TRANSITION OC - OPEN/CLOSE OLOL - ON LINE/OFFLINE OO - OFF/ON OSC - OPEN/STOP/CLOSE RST - RESET SAAM - SEMI AUTO/AUTO/MANUAL SEL - SELECT SPD - SPEED SS - START/STOP ST - STOP	DESCRIPTION	LCP - LOCAL CONTROL PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. RVS - REDUCED VOLTAGE SOLID STARTER NO. VCP - VENDOR CONTROL PANEL NO. VFD - VARIABLE FREQUENCY DRIVE NO.	E - EXISTING F - FUTURE		
POWER DEVICE PRIMARY FUNCTION OPERATOR ACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - VOLTAGE-POLE 5 - LOCATION 6 - EXISTING/FUTURE	CB - CIRCUIT BREAKER DISC - DISCONNECT FU - FUSE	REFER	TM - THERMAL MAGNETIC CIRCUIT BREAKER	DESCRIPTION	DP - DISTRIBUTION PANEL NO. LCP - LOCAL CONTROL PANEL NO. LP - LIGHTING PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. PP - POWER PANEL NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE		
POWER DEVICE AUXILIARY FUNCTION OPERATOR ACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - DESCRIPTION 4 - DESCRIPTION 5 - DESCRIPTION 6 - EXISTING/FUTURE	DISC - DISCONNECT	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE		
POWER DEVICE PRIMARY FUNCTION OPERATOR INACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - VOLTAGE-POLE 5 - LOCATION 6 - EXISTING/FUTURE	CB - CIRCUIT BREAKER FU - FUSE	REFER	MCP - MOTOR CIRCUIT PROTECTOR SS - SOLID STATE CIRCUIT BREAKER TM - THERMAL MAGNETIC CIRCUIT BREAKER	DESCRIPTION	DP - DISTRIBUTION PANEL NO. LCP - LOCAL CONTROL PANEL NO. LP - LIGHTING PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. PP - POWER PANEL NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE		

SYMBOL	DRAWING VISIBLE FIELDS	FIELD - 1	FIELD - 2	FIELD - 3	FIELD - 4	FIELD - 5	FIELD - 6	FIELD - 7	FIELD - 8
INSTRUMENT PRIMARY ELEMENT	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
INSTRUMENT/CONTROL ELEMENT PRIMARY FUNCTION OPERATOR ACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
INSTRUMENT/CONTROL ELEMENT AUXILIARY FUNCTION OPERATOR ACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
INSTRUMENT/CONTROL ELEMENT PRIMARY FUNCTION OPERATOR INACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
INSTRUMENT/CONTROL ELEMENT AUXILIARY FUNCTION OPERATOR INACCESSIBLE	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
FIELD EQUIPMENT NON-POWERED	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION/SIZE 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
FIELD EQUIPMENT PRIMARY FUNCTION POWERED	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
FIELD EQUIPMENT AUXILIARY FUNCTION POWERED	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	MWH - MOTOR WINDING HEATER TSH - TEMPERATURE SWITCH XSH - TORQUE SWITCH	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
FIELD EQUIPMENT STARTER/DRIVE CUBICLE/CABINET	1 - TAG 2 - LOOP NUMBER 3 - TYPE 4 - VOLTAGE-POLE 5 - POWER SOURCE 6 - EXISTING/FUTURE	MS - MOTOR STARTER RVAT - REDUCED VOLTAGE AUTO TRANSFORMER STARTER RVSS - REDUCED VOLTAGE SOLID STATE STARTER VFD - VARIABLE FREQUENCY DRIVE	REFER	FVNR - FULL VOLTAGE NON-REVERSING STARTER FVR - FULL VOLTAGE REVERSING STARTER PWS - PART-WINDING STARTER RVAT - REDUCED VOLTAGE AUTO SOLID STATE STARTER TS1W - TWO SPEED SINGLE WINDING TS2W - TWO SPEED TWO WINDINGS VFD - VARIABLE FREQUENCY DRIVE	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

INSTRUMENT BUBBLE LOCATIONS		NOTES
PCS		1 INSTRUMENT TAG IDENTIFICATION LETTERS TABLE
IO		2 OPERATOR PILOT DEVICE LEGEND
OPERATOR INTERFACE CONTROL DEVICES		3 EQUIPMENT TAGGING TABLE
POWER SOURCE		4 I/O TYPE DESIGNATIONS
FIELD		5 INSTRUMENT TYPE DESIGNATIONS TABLE
		6 FURNISHED BY: FBO FURNISHED BY OWNER FBV FURNISHED BY VENDOR
		7 PROVIDED BY: PBO PROVIDED BY OWNER PBV PROVIDED BY VENDOR

DESIGNED JHJ	DRAWN TCD	CHECKED AMA	DATE NOVEMBER 2025		<p>301 North Cattlemen Road, Suite 302 Sarasota, FL 34232 Phone: 941-371-9832 CA No. 00008571</p>		COLLIER COUNTY NORTHEAST WRF/WTP -DIW CONVEYANCE INSTRUMENTATION SYMBOLS AND ABBREVIATIONS 1	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 71261.10 DRAWING NO. 00GN01 SHEET NO. 40 OF 62
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