COLLIER COUNTY WATER SEWER DISTRICT REHABILITATION PLANS FOR PUMP STATION 308.06

COLLIER COUNTY PUMP STATION 308.06 SERVING THE SOUTH COUNTY WATER RECLAMATION FACILITY

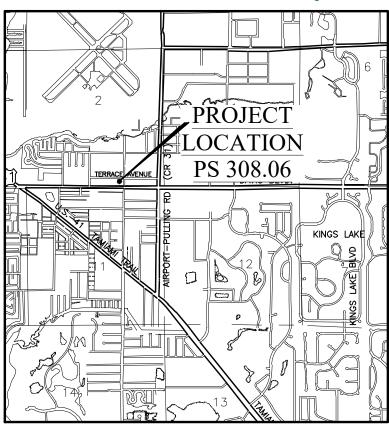
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NOTE: ONLY APPLICABLE ELECTRICAL SHEETS HAVE BEEN INCLUDED IN THIS SET.

SITE ADDRESS: PUMP STATION 308.06 1570 SHADOWLAWN DRIVE NAPLES, FLORIDA 34104





BOARD OF COUNTY COMMISSIONERS

RICK LOCASTRO

CHRIS HALL

BURT L. SAUNDERS

DAN KOWAL

WILLIAM L. MCDANIEL, JR.

DISTRICT 1

DISTRICT 2

DISTRICT 3

DISTRICT 4

WILLIAM L. MCDANIEL, JR.

DISTRICT 5

COUNTY MANAGER
AMY PATTERSON

PUBLIC UTILITIES DIVISION

GEORGE YILMAZ, Ph.D. PUBLIC UTILITIES ADMINISTRATOR

MATTHEW MCLEAN, P.E. DIRECTOR, EPMD SHON FANDRICH, PE EPMD SUPERVISOR

MATTHEW FORTUNE EPMD PROJECT MANAGER
ZAMIRA DELTORO EPMD PROJECT MANAGER





CIVIL/UTILITIES ENGINEER:
BOWMAN CONSULTING GROUP, LTD
DAVID W. SCHMITT
950 ENCORE WAY
NAPLES, FL 34110

ELECTRICAL ENGINEER: RKS CONSULTING ENGINEERS FERNANDO ENRIQUE FUESNITES 12651 MCGREGOR BLVD. STE 4-402 FORT MYERS, FL 33919 PHONE: (239) 481-6775



950 ENCORE WAY NAPLES, FL. 34110 PHONE: 239 254 2000



12651 McGregor Blvd. Ste 4-402 | Fort Myers, FI 33919

239.481.6775 | Certificate of Authorization #8212

ISSUED FOR BIDDING DECEMBER 2024

David W. Schmitt
Florida Reg. No. 41671
Date: __11/24



GENERAL NOTES

- A. CONTRACTOR SHALL COMPLETE ALL WORK IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS, WHICH BY REFERENCE INCLUDE THE COLLIER COUNTY UTILITIES STANDARDS MANUAL, LATEST EDITION WITH CURRENT REVISIONS. IN THE EVENT OF A CONFLICT BETWEEN THE COUNTY UTILITIES STANDARDS AND THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- B. THE CONTRACTOR SHALL INCLUDE IN ITS CONTRACT PRICE AN ALLOWANCE EQUAL TO THE ALLOWANCE FUND SHOWN IN THE BID SCHEDULE FOR ADDITIONAL WORK REQUIRED DUE TO UNFORESEEN COSTS ASSOCIATED WITH MODIFICATIONS TO EXISTING STRUCTURES, PIPING, ELECTRICAL AND INSTRUMENTATION. THE PROVISIONS FOR THE ALLOWANCE FUND ARE NOT A GUARANTEE THE CONTRACTOR WILL BE PAID ANY PORTION OR THE FULL AMOUNT OF SUCH ALLOWANCE FUND.
- C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR COLLIER COUNTY SECURITY BADGES FOR EACH WORKER ON SITE. BADGES ARE ISSUED BY THE COUNTY FACILITIES DEPARTMENT.
- D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND SUBMIT A DETAILED WORK SCHEDULE FOR APPROVAL PRIOR TO STARTING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND TEMPORARY MATERIAL AND EQUIPMENT REQUIRED TO MAINTAIN NORMAL OPERATION OF THE FACILITIES. SEE SPECIAL PROJECT REQUIREMENTS.

SPECIAL PROJECT REQUIREMENTS

- A. WORK SHALL BE SCHEDULED AND CONDUCTED BY THE CONTRACTOR SO AS NOT TO IMPEDE ANY WASTEWATER COLLECTION PROCESS OR CAUSE ODOR OR OTHER NUISANCE. IN PERFORMING THE WORK SHOWN AND SPECIFIED, THE CONTRACTOR SHALL PLAN AND SCHEDULE HIS WORK TO MEET THE COLLECTION SYSTEM OPERATING REQUIREMENTS. NO DISCHARGE OF RAW OR INADEQUATELY TREATED WASTEWATER SHALL BE ALLOWED. THE CONTRACTOR SHALL PAY ALL CIVIL PENALTIES, COSTS, ASSESSMENTS, ETC., ASSOCIATED WITH ANY DISCHARGE OF RAW OR INADEQUATELY TREATED WASTEWATER ASSOCIATED WITH THE CONTRACTOR'S WORK.
- B. THE CONTRACTOR SHALL SCHEDULE THE WORK SO THAT THE WASTEWATER COLLECTION SYSTEM IS MAINTAINED IN CONTINUOUS OPERATION. THE OWNER WILL NOT ALLOW SHUTDOWN OF ANY WASTEWATER PUMP STATION, GRAVITY SEWER OR FORCE MAIN (IN PART OR IN ITS ENTIRETY) TO FACILITATE THE CONTRACT WORK WITHOUT PRIOR WRITTEN APPROVAL. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN TO THE OWNER AND ENGINEER DESCRIBING THE SHUT DOWN AND A DETAILED SCHEDULE FOR EACH PUMP STATION ALONG WITH ALL PLANNED RESOURCES. THE PLAN FOR EACH SHUT—DOWN MUST BE SUBMITTED AT LEAST TEN WORKING DAYS PRIOR TO THE SCHEDULED SHUT—DOWN.

C. BY-PASS PUMPING:

- 1. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING AROUND EACH PUMP STATION AS MAY BE REQUIRED. A BYPASS PLAN SHALL BE SUBMITTED FOR REVIEW PRIOR TO ANY CONSTRUCTION. DURING THE ENTIRE BY—PASS PUMPING OPERATION THE CONTRACTOR SHALL PROVIDE 24 HOUR PER DAY CONTINUOUS MONITORING BY A PERSON ON SITE OR REMOTELY BY A CALL—OUT SYSTEM WITH A MAXIMUM OF ONE HOUR CALL OUT. THE SYSTEM SHALL ALLOW REMOTE MONITORING. THE CONTRACTOR SHALL HAVE ADEQUATE PUMPER TRUCKS ON STANDBY AND AVAILABLE TO BE ON SITE WITHIN ONE HOUR IN THE EVENT OF AN ABNORMAL RISE IN THE UPSTREAM MANHOLE SEWAGE LEVELS AND THE POTENTIAL FOR AN OVERFLOW.
- 2. THE BYPASS PUMPING SHALL INCORPORATE PUMPS MEETING THE COUNTY SOUND LEVEL (NOISE) ORDINANCE. THE CONTRACTOR SHALL PROVIDE SILENCERS, ACOUSTICAL ENCLOSURES, POWER CONNECTIONS, GENERATORS, MOTORS, ENGINES, AND SPECIAL DEVICES AS MAY BE REQUIRED TO COMPLY WITH THE COUNTY NOISE ORDINANCE.
- 3. THE BYPASS PUMPING FACILITIES SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING FEATURES: (A) STAND-BY PUMP ON SITE, (B) DRIP-FREE PIPING SYSTEM, (C) ABILITY TO HANDLE LOW FLOW CONDITIONS AS WELL AS PEAK FLOW CONDITIONS, (D) ALLOW NORMAL TRAFFIC FLOW DURING NON-WORK HOURS, (E) COMPLIANCE WITH AND INCLUSION IN THE APPROVED MOT PLAN, (F) STAND-BY PUMPER TRUCKS, AND (G) ALL FEATURES REQUIRED BY APPROVED BYPASS PUMPING PLAN.
- 4. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN AND SKETCH REGARDING THE PROPOSED BYPASS PUMPING TO THE COUNTY AND ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE ALL IMPACTS OF THE BYPASS PUMPING TO THE RESIDENTS AND TRAFFIC.
- D. DURING ALL NON-WORK HOURS, THE CONTRACTOR SHALL COVER AND COMPLETELY BACKFILL THE WORK AREA. NO OPEN EXCAVATION, TRENCH OR PIT SHALL EXIST DURING NON-WORK HOURS.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE GENERAL CONSTRUCTION AND SCHEDULES OF ALL TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT PERMANENT OR TEMPORARY ELECTRICAL POWER AND CONTROLS ARE AVAILABLE FOR ALL EXISTING, PROPOSED, AND TEMPORARY FACILITIES THAT ARE REQUIRED TO BE ON LINE AT ANY GIVEN TIME.
- F. THE CONTRACT ASSOCIATED WITH THIS WORK MAY INVOLVE MODIFICATIONS TO MORE THAN ONE PUMP STATION. IF SO, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DETAILED SCHEDULE IDENTIFYING THOSE STATIONS THAT ARE TO BE OFF-LINE CONCURRENTLY. THE <u>CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO HAVE NO MORE THAN THREE PUMP STATIONS UNDER MODIFICATION AT ONE TIME</u>. SELECTION OF STATIONS SHALL

- BE MADE SO AS TO ALLOW COMPLIANCE WITH THE BYPASS PUMPING REQUIREMENTS NOTED ABOVE. A PUMP STATION SHALL BE CONSIDERED AS UNDER MODIFICATION UNTIL THE STATION IS FUNCTIONAL AND FULLY TESTED AND THE SITE IS COMPLETELY CLEANED UP AND ALL PROPOSED SECURITY MEASURES ARE INSTALLED.
- G. THE CONTRACTOR SHALL NOT STORE MATERIALS ON ANY PUMP STATION SITE WITHOUT WRITTEN OWNER APPROVAL. THE CONTRACTOR SHALL COORDINATE SITE DELIVERY OF ALL MATERIAL AT EACH PUMP STATION WITH ACTUAL FIELD PROGRESS TO AVOID SITE STORAGE OF MATERIALS.
- H. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL TAKE A CONTINUOUS COLOR AUDIO-VIDEO DIGITAL DVD RECORDING OF ALL PROJECT SITE(S) TO SERVE AS A RECORD OF PRE-CONSTRUCTION CONDITIONS. ENGAGE THE SERVICES OF A PROFESSIONAL VIDEOGRAPHER. THE CONTRACTOR SHALL SUBMIT TWO COPIES OF EACH DVD RECORDING FOR REVIEW AND APPROVAL. RECORDED COVERAGE SHALL INCLUDE ALL SURFACE FEATURES LOCATED WITHIN THE ZONE OF CONSTRUCTION SUPPORTED BY APPROPRIATE AUDIO COVERAGE. SUCH COVERAGE SHALL INCLUDE SPECIAL ATTENTION TO EXISTING DRIVEWAYS, SIDEWALKS, CURBS, PAVEMENTS, STRUCTURES, EXPOSED PIPING, ELECTRICAL AND CONTROL DEVICES, LANDSCAPING, CULVERTS, FENCES, SIGNS AND HEADWALLS WITHIN THE AREA COVERED.
- I. A PRECONSTRUCTION CONFERENCE SHALL BE HELD AS WELL AS BIWEEKLY PROJECT MEETINGS DURING FIELD ACTIVITIES. THE LOCATION OF ALL MEETINGS SHALL BE SET BY THE OWNER.
- J. ALL STAINLESS STEEL MATERIALS AND FASTENERS SHALL BE TYPE 316 UNLESS SPECIFICALLY NOTED OTHERWISE.

TECHNICAL SPECIFICATIONS

1.0 SUBMITTALS & GENERAL NOTES

- A. ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD)—1988. THE AS—BUILT DRAWINGS SHALL REFERENCE THE NORTH AMERICAN VERTICAL DATUM (NAVD)—1988.
- B. SUBMITTALS SHALL BE PROVIDED FOR THE FOLLOWING ITEMS AND MATERIALS AND AS MAY BE REQUIRED BY THE CONTRACT DOCUMENTS:
- 1. BYPASS PUMPING PLAN FOR EACH PUMP STATION INCLUDING IDENTIFICATION AND DRAWINGS AS APPROPRIATE OF PUMP, STAND-BY PUMP, STAND-BY PUMPER TRUCKS, DRIP-FREE PIPING SYSTEM, MOT, WATCHMEN, INSTALLATION AND DISASSEMBLY PROCEDURES FOR BYPASS PIPING, ROUTE OF BYPASS PIPING, INSTALLATION OF BYPASS PIPING IN DRIVEWAY AREAS, CONTINGENCY PLANNING, AND POLLUTION INCIDENT ACTION PLAN.
- 2. MAINTENANCE OF TRAFFIC, STRUCTURAL PRECAST CONCRETE AND NON—SHRINK GROUT, HATCHES AND MANHOLE FRAMES AND COVERS, FLYGT PUMPS, CORDS, PIPING AND VALVES, FLOATS, STRUCTURES, GUIDE RAILS, SPARE PARTS, FASTENERS, ANCHOR BOLTS, ELECTRICAL PANEL AND DEVICES, ELECTRICAL CABLE AND CONDUIT AND APPURTENANCES AND GENERAL APPURTENANCES, SOIL DENSITY AND ASPHALTIC TEST REPORTS, O&M MANUALS, AND CONSTRUCTION SCHEDULE.
- 3. THE SUBMISSION OF SUBMITTALS BY SHALL BE MADE VIA EMAIL. ANY DIGITAL FILE SUBMITTAL OR RE—SUBMITTAL MUST BE COMPLETE IN EVERY RESPECT. PARTIAL RE—SUBMITTALS WILL NOT BE ACCEPTED. EACH DIGITAL SUBMITTAL MUST INCLUDE A TABLE OF CONTENTS AND THE FILES MUST BE ARRANGED IN THE ORDER DESCRIBED IN THE TABLE OF CONTENTS. EACH DIGITAL FILE SUBMITTAL MUST INCLUDE ONLY ONE PIECE OF MATERIAL OR EQUIPMENT. DIGITAL TRANSMISSION OF O&M DATA, ELECTRICAL AND INSTRUMENTATION SUBMITTALS MUST INCLUDE TWO FLASH DRIVES AND TWO HARD COPIES OF THE COMPLETE SUBMITTAL.
- C. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF VALUES AND A CONSTRUCTION SCHEDULE FOR APPROVAL.
- D. SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS MUST BE APPROVED PRIOR TO MANUFACTURE, INSTALLATION OR PAYMENT BY THE OWNER.
- E. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM ALL REQUIRED MATERIALS AND SITE TESTING.
- F. PRIOR TO THE STARTUP OF ANY EQUIPMENT, THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF THE MANUFACTURER'S DRAFT OPERATION AND MAINTENANCE MANUAL. SUBMITTAL FOR DRAFT AND FINAL MANUALS SHALL BE TWO FLASH DRIVES ALONG WITH TWO HARD COPIES.
- G. AFTER SUBSTANTIAL COMPLETION AND PRIOR TO FINAL COMPLETION, THE CONTRACTOR SHALL SUBMIT AS—BUILT DRAWINGS. THE CONTRACTOR SHALL MARKUP ACTUAL INSTALLED LENGTH AND LOCATION OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL SIGN AND DATE THE MARKUP AS—BUILT DRAWINGS. THE CONTRACTOR SHALL ALSO SUBMIT SURVEY DRAWINGS AND CAD FILES SIGNED AND SEALED BY A FLORIDA LICENSED SURVEYOR/MAPPER OF ALL AS—BUILT CONDITIONS AS DESCRIBED IN THE COLLIER COUNTY UTILITIES STANDARDS MANITAL



FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

950 Ericole Way Naples, FL 34110 Phono (239) 254-2000

GENERAL NOTES
OUNTY WATER-SEWER DISTRICT
COLLIER COUNTY, FLORIDA

PLANS

REHABILITATION

ESE DRAWINGS ARE NO PROVED UNLESS SIGNED

DATE 02/26/2025
GENERAL NOTES

2.0 SITE WORK AND EXISTING UTILITIES & IMPROVEMENTS

- A. EXTREME CAUTION TO BE USED WHEN EXCAVATING. NUMBER AND LOCATION OF EXISTING UTILITIES HAVE BEEN NOTED BASED ON THE INFORMATION FURNISHED BY OTHERS.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE AND PROTECT ANY EXISTING UTILITY.
- D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE ALL EXISTING LANDSCAPING (I.E. SOD, BRUSHES, TREES, ETC.), SPRINKLER PIPING, SPRINKLER HEADS AND FENCING THAT MAY HAVE TO BE REMOVED OR HAS BEEN DAMAGED DURING CONSTRUCTION. THIS RESPONSIBILITY INCLUDES COMPLETE RESTORATION AND SODDING OF ALL DISTURBED GRASSED AREAS.
- E. CONTRACTOR TO REPLACE OR REPAIR ANY DAMAGED PROPERTY OR IMPROVEMENTS TO A CONDITION EQUAL OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.

3.0 DEMOLITION

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE NON-DESTRUCTIVE METHODS TO LOCATE EMBEDDED CONDUIT IN CONCRETE WALLS AND FLOORS PRIOR TO DEMOLITION, SAW CUTTING AND CORE DRILLING.
- B. PRIOR TO DEMOLITION OF VAULTS, CONCRETE SLABS AND PIPING, THE CONTENTS OF THE PIPING SYSTEM SHALL BE REMOVED BY THE CONTRACTOR AND THE GRIT AND DEBRIS SHALL BE REMOVED FROM THE FLUIDS. THE FLUIDS MAY BE DISPOSED INTO COUNTY'S APPROVED FACILITIES AT THE SCWRF SITE SUBJECT TO PRIOR WRITTEN APPROVAL BY THE SCWRF MANAGER AND THE COUNTY PROJECT MANAGER.
- C. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL AND LABOR TO :
- 3. REMOVE/PUMP WASTE WATER FROM ABANDONED PIPES AND STRUCTURES TO TANKER TRUCK.
- 4. FLUSH ABANDONED PIPE AND STRUCTURES WITH NON POTABLE OR POTABLE WATER.
- 5. HAUL AND DISPOSE OF THE WASTEWATER AND FLUSHING WATER AT A FDEP APPROVED FACILITY.
- 6. THE CONTRACTOR SHALL HAUL AND DISPOSE OF GRIT AND DEBRIS TO AN APPROVED FDEP FACILITY
- 7. GROUT FILL AND CAP/PLUG PIPES. SUBMIT DETAILED PLAN AND EQUIPMENT FOR GROUTING TO ENGINEER FOR APPROVAL.
- D. REMOVE EXISTING ANCHORS TO A LEVEL 0.75 INCHES BELOW THE FINAL FINISHED SURFACE. CONCRETE SURFACE TO BE PATCHED SMOOTH AND CONSISTENT WITH ADJACENT SURFACES. PATCHING MATERIAL TO BE REPAIR MORTAR, SIKATOP 122/123 PLUS OR APPROVED EQUAL FOR AREAS NOT EXPOSED TO WASTEWATER AND SEWPERCOAT OR IET LINING OR APPROVED EQUAL FOR AREAS EXPOSED TO WASTEWATER.
- E. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONCRETE, PIPING AND CABLE SUPPORTS, PIPING, VALVING, AND APPURTENANCES SHOWN IN THE CONTRACT DOCUMENTS TO BE DEMOLISHED OR REMOVED. REFER TO THE REQUIREMENT BELOW FOR ADDITIONAL INFORMATION REGARDING CERTAIN MATERIALS.
- F. THE CONTRACTOR SHALL DELIVER ALL REMOVED PUMPS AS WELL AS ANY OTHER MATERIALS SPECIFICALLY IDENTIFIED BY COLLIER COUNTY TO THE COLLIER COUNTY UTILITIES WASTEWATER DEPARTMENT AT 6027 SHIRLEY STREET, NAPLES, FL. OTHER MATERIALS MAY INCLUDE VALVES, CONTROL PANELS, ETC.

4.0 PAINTS AND COATINGS

- A. THE CONTRACTOR SHALL PROVIDE FIELD PAINTING FOR NON-STAINLESS STEEL VALVES.
- B. SURFACE PREPARATION SHALL BE AS REQUIRED BY THE COATING MANUFACTURER. FIELD COATING SHALL BE TWO COATS OF TNEMEC 73 OR APPROVED EQUAL WITH 2-3 MILS PER COAT DFT. PAINT COLOR CHART SHALL BE SUBMITTED TO THE OWNER FOR COLOR SELECTION.
- C. THE CONTRACTOR SHALL ENSURE THE FACTORY PRIME COATING IS COMPATIBLE WITH THE FIELD COATING SYSTEM.
- D. EXISTING INTERIOR BITUMINOUS COATING IN ANY WETWELL SHALL BE REMOVED BY SANDBLASTING. CARE SHALL BE TAKEN TO MINIMIZE DEGRADATION OF THE CONCRETE SURFACE AND LOSS OF CONCRETE WALL THICKNESS. THE BARE SURFACES IN THE WETWELL SHALL BE PREPARED FOR APPLICATION OF SEWPERCOAT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. APPLY SEWPERCOAT COATING ON ALL INTERIOR SURFACES PER COLLIER COUNTY UTILITIES STANDARDS MANUAL.

5.0 PERMITS

A. CONTRACTOR SHALL OBTAIN A COLLIER COUNTY RIGHT OF WAY PERMIT FOR CONSTRUCTION IN THE RIGHT—OF—WAY INCLUDING THE NEW DRIVEWAY AND DRAINAGE IMPROVEMENTS. COUNTY SHALL PAY ALL PERMIT FEES THROUGH INTERDEPARTMENTAL TRANSFER. CONTRACTOR SHALL BE RESPONSIBLE FOR PERMIT EXTENSIONS AND ALL RE—INSPECTION FEES.

6.0 PUBLIC UTILITIES DIVISION 5N-RELIABILITY ENGINEERING & OPERATIONS REQUIREMENTS

A. THE CONTRACTOR'S SPECIAL ATTENTION IS NEEDED TO ASSURE COMPLIANCE WITH THE COLLIER COUNTY PUBLIC UTILITIES FIVE NS. THESE RELATE TO ALL COUNTY UTILITIES FACILITIES INCLUDING, BUT NOT LIMITED TO, WATER AND WASTEWATER TREATMENT FACILITIES; RAW WATER PUMPING AND TRANSMISSION FACILITIES; POTABLE WATER STORAGE, TRANSMISSION, AND DISTRIBUTION FACILITIES; WASTEWATER COLLECTION, TRANSMISSION, AND PUMPING FACILITIES; IRRIGATION QUALITY WATER STORAGE, PUMPING, TRANSMISSION, AND DISTRIBUTION SYSTEMS; AND SOLID WASTE TRANSFER STATION AND LANDFILL FACILITIES. ANY DEVIATION TO THESE REQUIREMENTS SHALL BE

REVIEWED AND CONSIDERED ON A CASE-BY-CASE BASIS BY UTILITY AND OTHER COUNTY STAFF. THE FIVE NS ARE:

- 1. NO OFFSITE ODOR AT ANY TIME. (24 HOURS PER DAY, 7 DAYS PER WEEK, 365 DAYS PER YEAR)
- 2. NO SANITARY SEWER OVERFLOWS (SSOS-SPILLS). (7 DAYS PER WEEK, 365 DAYS PER YEAR)
- 3. NO FUGITIVE DUST EMISSIONS (7 DAYS PER WEEK, 365 DAYS PER YEAR).
- 4. NO OFFSITE NOISES, ALL SOUND EMISSION SHALL BE MITIGATED PRIOR TO FENCE LINE PER LAND DEVELOPMENT CODE. (7 DAYS PER WEEK, 365 DAYS PER YEAR)
- 5. NO OFFSITE LIGHT EMISSION, ALL LIGHT EMISSIONS SHALL BE MITIGATED PRIOR TO FENCE LINE PER LAND DEVELOPMENT CODE.



950 Encore Way Naples, FL 34110 Phono (239) 254-2000

GENERAL NOTES
OUNTY WATER-SEWER DISTRIC
COLLIER COUNTY, FLORIDA

PS 308.

REHABILITATION PLANS FOR

DAVID W. SCHMITT, P.E.
FL. LICENSE NO. 41671
02/26/2025

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NOLLIGHT
DESCRIPTION

DS RV DS
DESIGN DRAWN CHKD
SCALE 1"=6'-0"
JOB No. 340342/2023.001
CAD File Pump STATION JORGO-

DATE 02/26/2025
GENERAL NOTES

SHEET G-3

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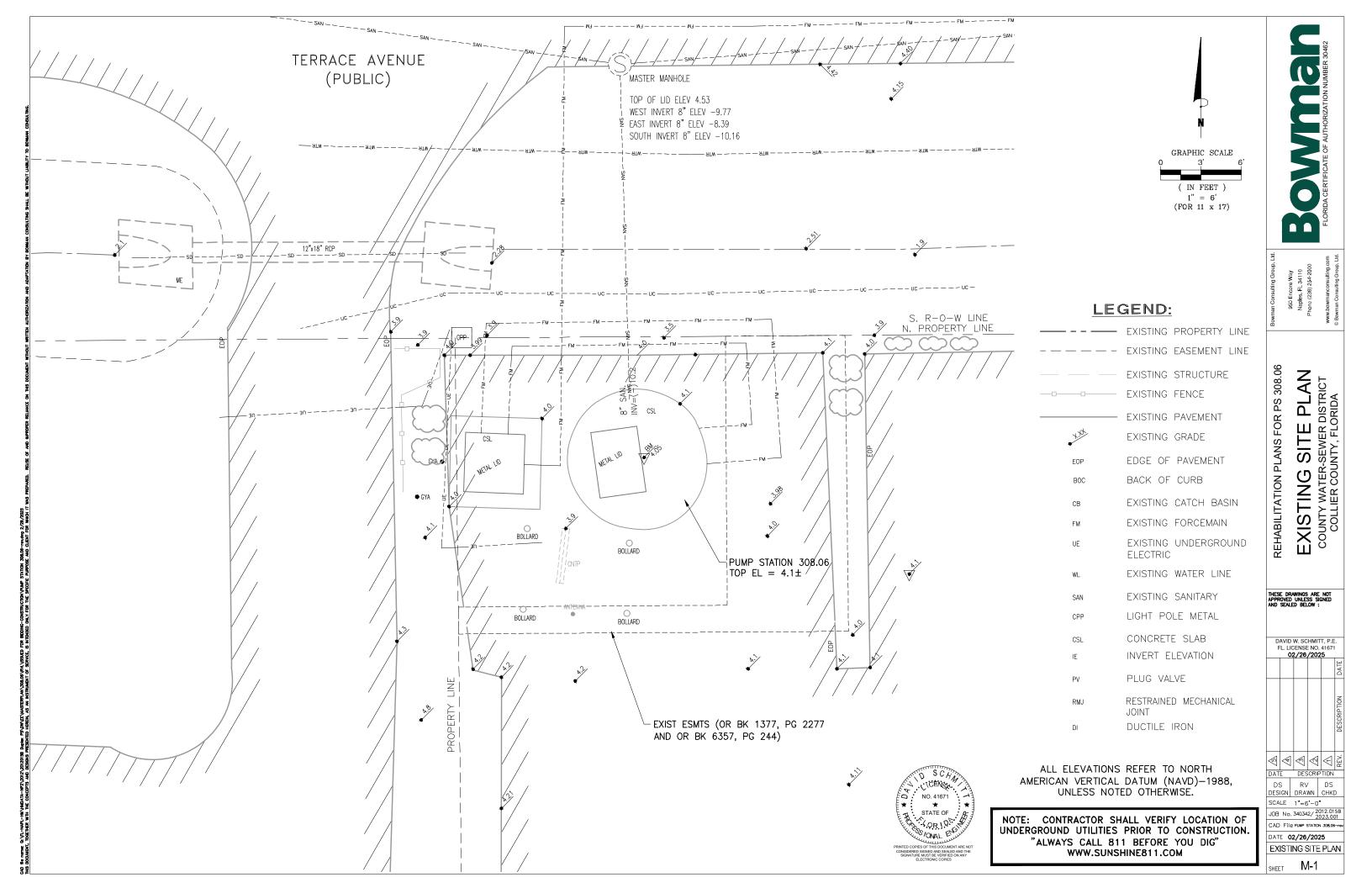
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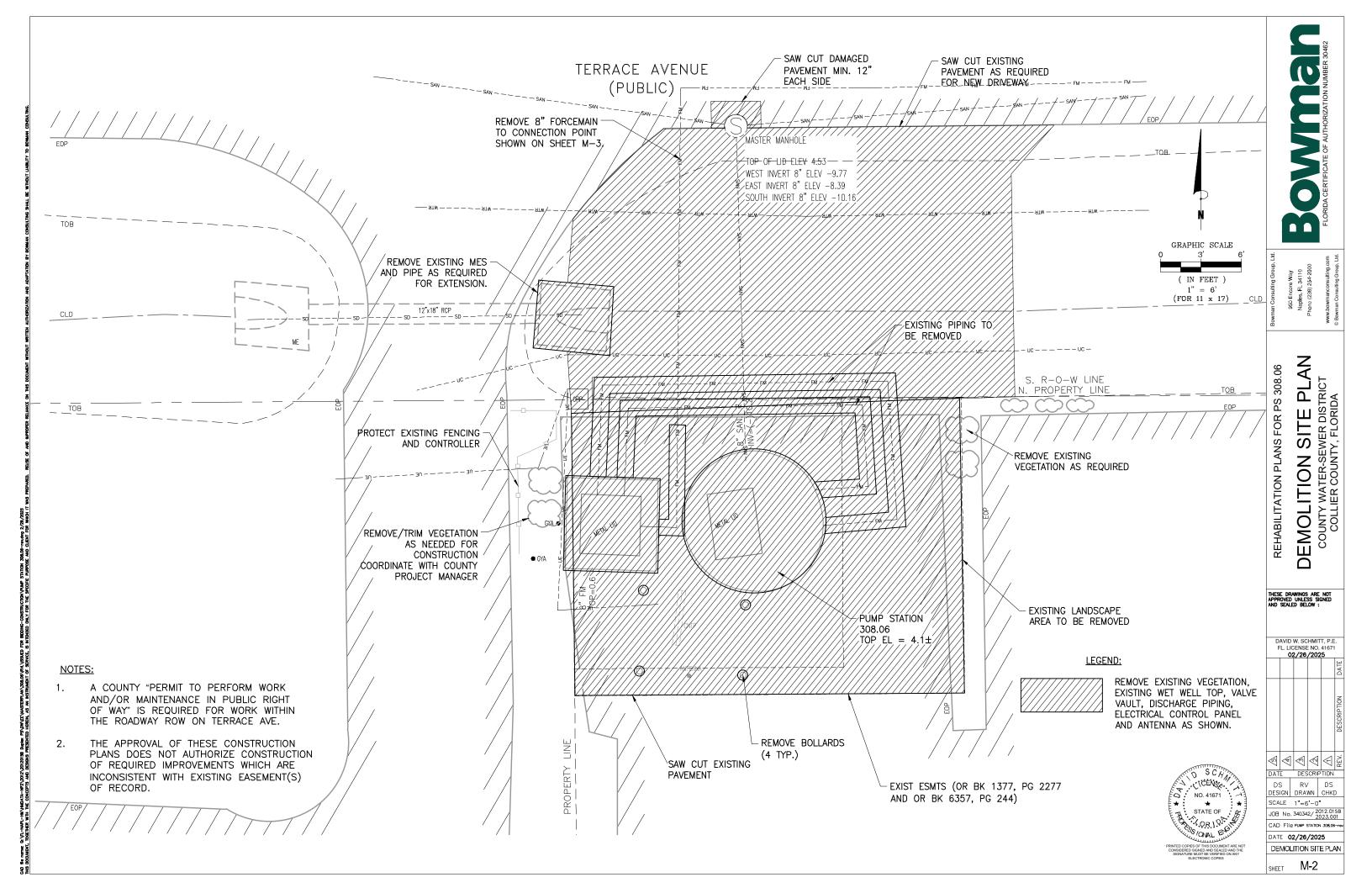
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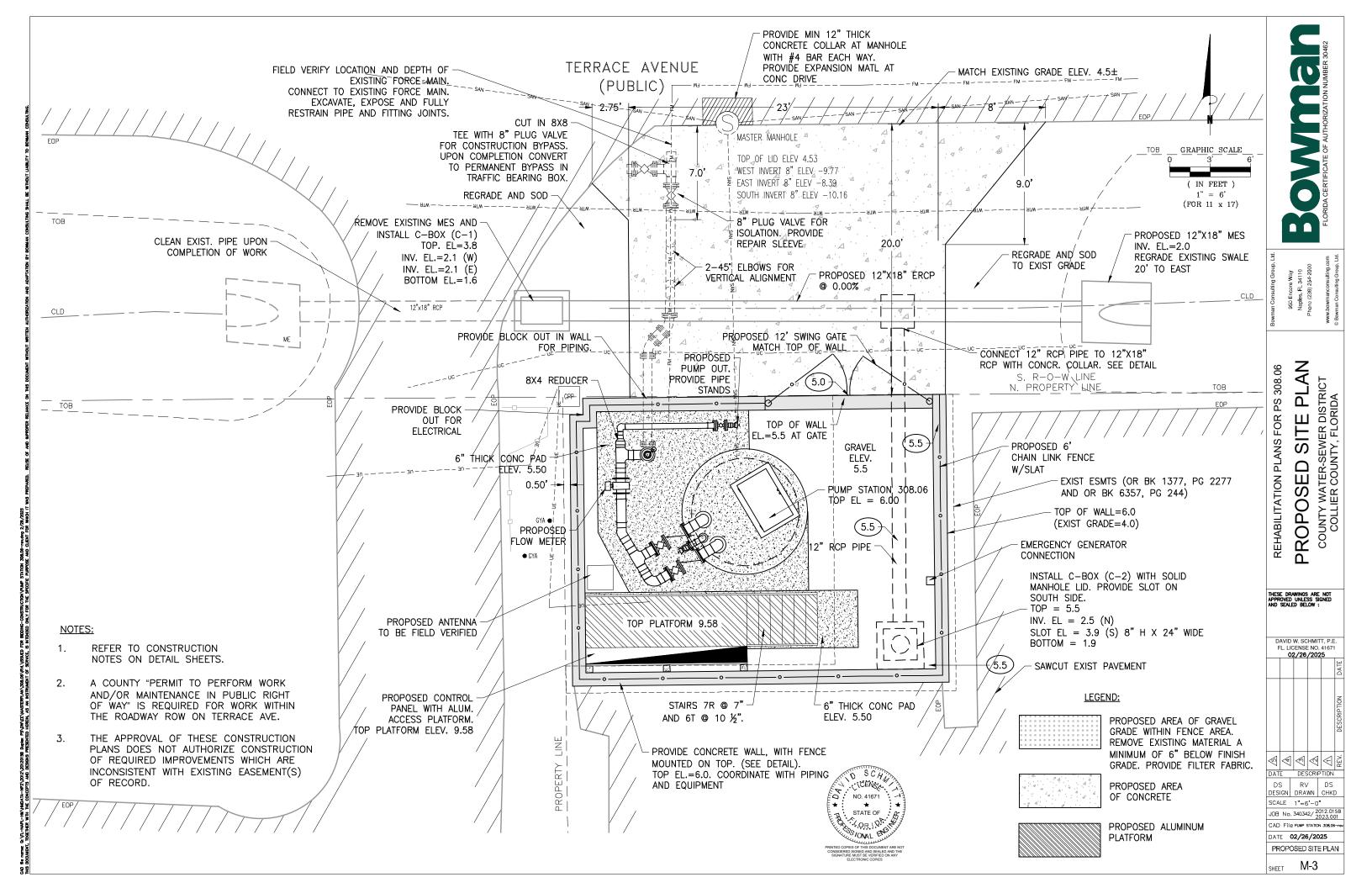
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| DAVID W. SCHMITT, P.E. FL. LICENSE NO. 41671 02/26/2025 | | | | | | | |
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NO. 41671

STATE OF

JOB No. 340342/2012.015 2023.001 CAD File PUMP STATION 308.06-DATE **02/26/2025**

EXISTING PUMP STATION

STATION 308.06

| PUMP INFORMATION | EXISTING | PROPOSED |
|-------------------|----------|----------|
| PUMP STATION No. | 308.06 | N/C |
| NUMBER OF PUMPS | 2 | N/C |
| PUMP MANUFACTURER | FLYGT | N/C |
| PUMP MODEL No. | CP 3152 | NP 3171 |
| IMPELLER No. | 434 | 434 |
| HORSEPOWER | 20 | 30 |
| PHASE | 3 | 3 |
| VOLTS | 230 | 460 |
| RPM | 1750 | 1755 |

NOTES:

*ALL ELEVATIONS IN FEET AND REFERENCE NAVD 88 UNLESS OTHERWISE NOTED

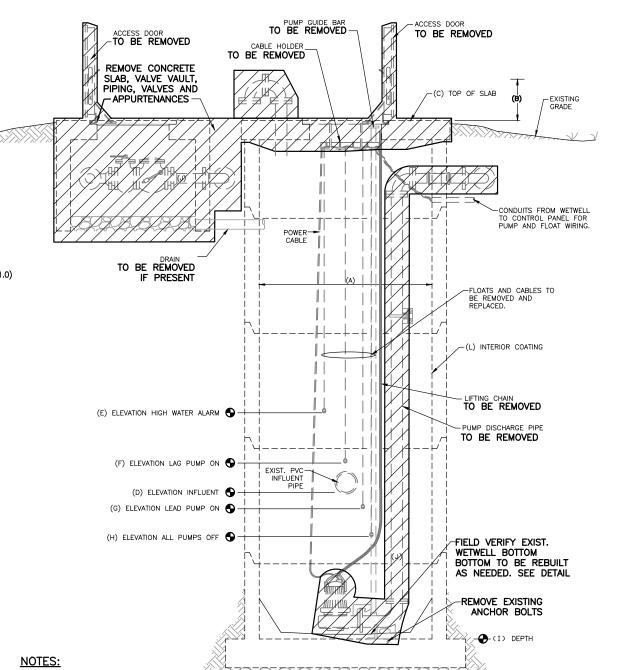
N/C = NO CHANGE

EXISTING PROPOSED 8 FT DIAMETER N/C (B) FEMA 9.0 9.0 4.1± 6.00 8" (-) 10.2± N N/C (D-1)N/C N/C (E) (-) 5.4± N/C (-) 7.2± N/C (-) 11.7± N/C (-) 12.9± N/C (H) (−) 16.9± [23.9 FT DEPTH] (I) (-) 16.9± [21 FT DEPTH] N/C (K) NOT USED (L) CEMENTITIOUS SEWPERCOAT OR CCU APP'D EQUAL

* PANELS AT BFE +2 (ELEV. 11.0) (D-1)EXACT VALVE VAULT, PIPING, VALVES AND * PROVIDE 6X8 REDUCER ON INFLUENT SEWER VERTICAL DISCHARGE PIPES APPURTANENCE ORIENTATION MAY VARY. VERIFY IN FIELD BEFORE DEMO. REMOVE CONCRETE SLAB, VALVE VAULT, PIPING, VALVES AND APPURTENANCES. SEAL ALL UN-USED PIPE AND CONDUIT OPENINGS TO BE REMOVED REMOVE CONCRETE -SLAB, VALVE VAULT, PIPING, VALVES AND TO BE REMOVED APPURTENANCES EXIST. CONTROL -Control Panel and Antenna Locations Shown for illustrative purposes only. See site plan for location.

PUMP STATION DETAIL

EXISTING PLAN



REFER TO CONSTRUCTION NOTES ON DETAIL SHEETS.

REFER TO SPECIFICATIONS SHEETS PUMP STATION DETAIL FOR INFORMATION AND REQUIREMENTS REGARDING DEMOLITION.

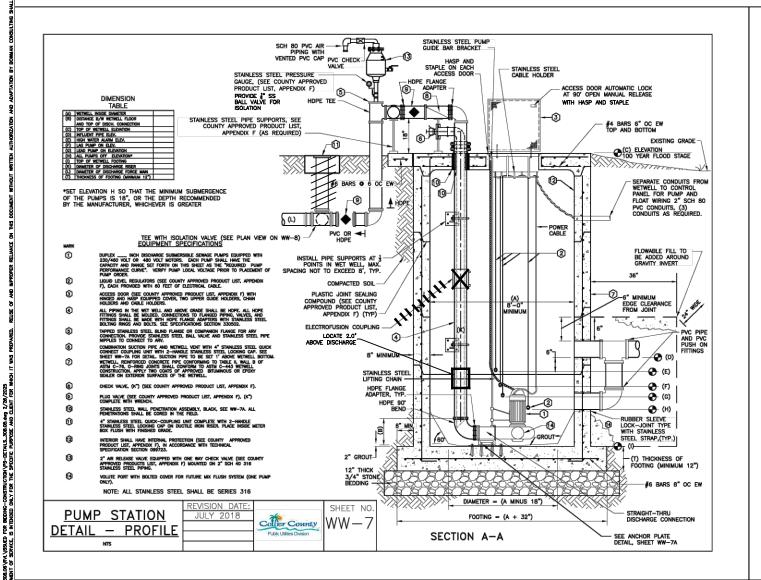
EXISTING PROFILE

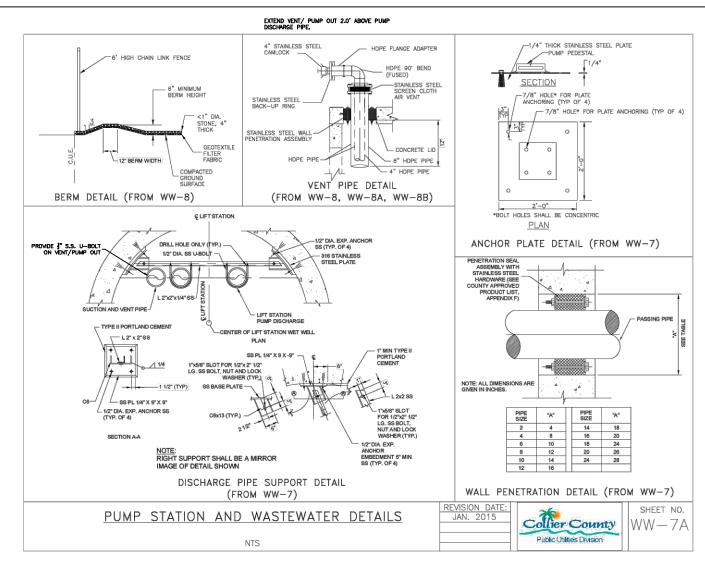
- FINAL FLOAT ELEVATIONS TO BE ADJUSTED IN FIELD BY COUNTY.
- A COUNTY "PERMIT TO PERFORM WORK AND/OR MAINTENANCE IN PUBLIC RIGHT OF WAY" IS REQUIRED FOR WORK WITHIN THE ROADWAY ROW ON TERRACE AVE.
- THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT AUTHORIZE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EXISTING EASEMENT(S) OF RECORD.

LEGEND:

TO BE REMOVED







NOTES: 1. EXISTING WET WELL TOP TO BE REPLACED.
2. EXISTING WET WELL TO REMAIN AND
BE REHABILITATED.

 EXTERIOR GRAVITY SEWER DROP NOT REQUIRED FOR PS REHAB.

4. ABOVE GRADE PUMP OUT TO BE PROVIDED ON DISCHARGE HEADER. BELOW GRADE PUMP OUT NOT REQUIRED.

5. PROVIDE VENT/PUMP OUT COMBINATION TO BE CENTERED BETWEEN PUMP DISCHARGE PIPING AND EXTEND 2.0' ABOVE PUMP DISCHARGE PIPING. FOR FREE ROTATION. SECURE WITH SS U-BOLTS.



FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

330 Entatie Way Naples, FL 34110 Phone (239) 254-2000

STRICT

PS 308.

REHABILITATION PLANS FOR

DETAILS

WATER-SEWER DISTRICT

LIER COUNTY, FLORIDA

ese drawings are no

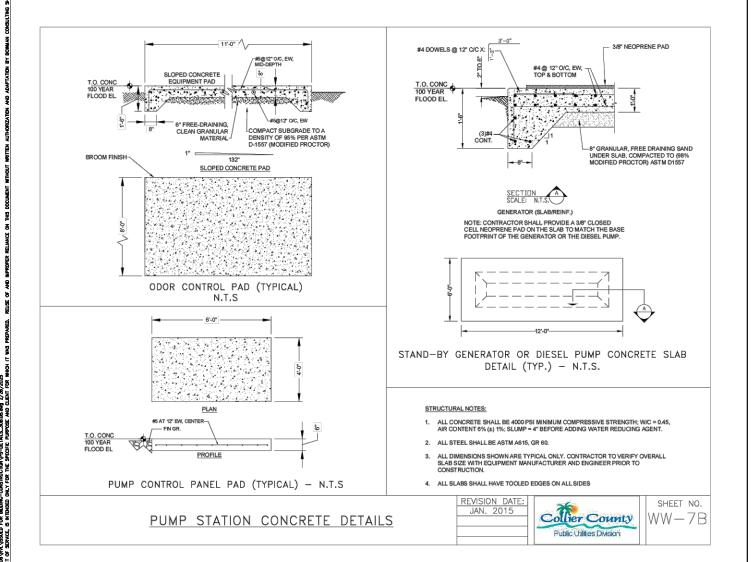
DAVID W. SCHMITT, P.E. FL. LICENSE NO. 41671 02/26/2025

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SCALE NTS

SCALE NTS JOB No. 340342/ 2012.015B 2023.001 CAD File PS-DETAILS_308.06

DATE **02/26/2025**DETAILS

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NOTES: 1. CONCRETE PAD TO EXTEND UNDER PUMP

STAIRS AT ELEV. 5.5.

UTILIZED AT SITE.

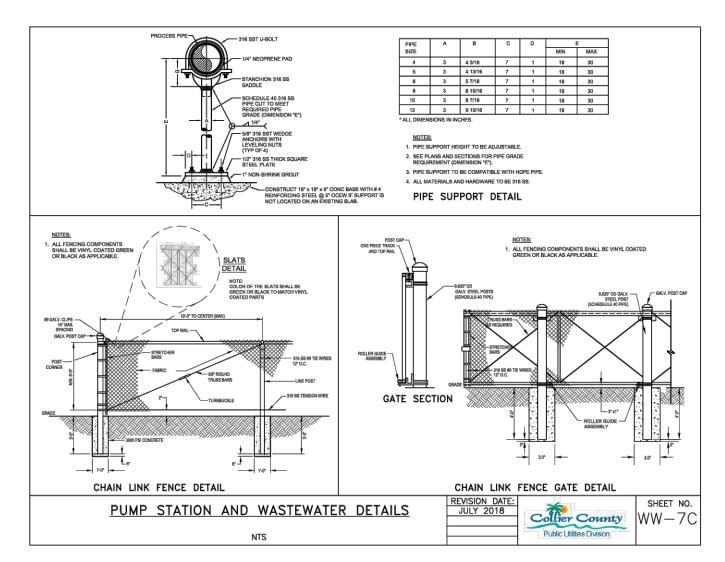
AT THIS SITE.

STATION CONTROL PANEL PLATFORM AND

2. STANDBY GENERATOR/DIESEL PUMP SLAB

NOT REQUIRED. PORTABLE UNIT TO BE

3. NO ODOR CONTROL PANEL PAD REQUIRED



NOTES: 1. COORDINATE FENCE PLACEMENT TO TOP OF RETAINING WALL.

- 2. SEE FDOT INDEX 550-002 FOR MOUNTING TO TOP OF WALL (4-BOLT OPTION)
- 3. GATE TOP TO MATCH WALL FENCE HEIGHT.

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Naples, FL:
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DETAILS
COUNTY WATER-SEWER DISTRICT
COLLIER COUNTY, FLORIDA

REHABILITATION PLANS FOR PS 308.06

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DAVID W. SCHMITT, P.E. FL. LICENSE NO. 41671 02/26/2025

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DESIGN DRAWN CHKD
SCALE NTS

JOB No. 340342/ 2012.015B 2023.001

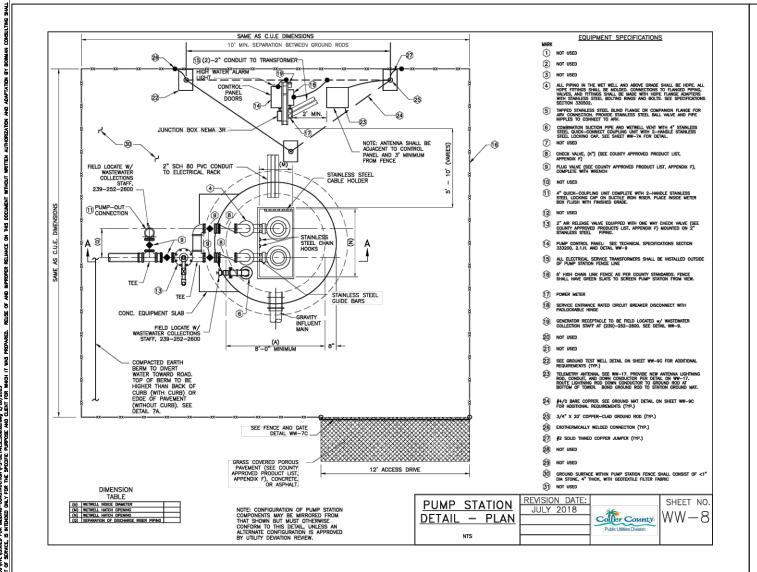
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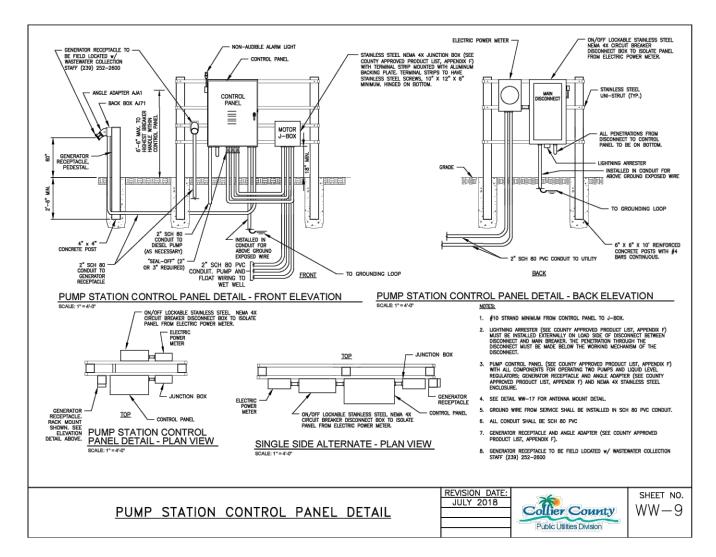
DATE 02/26/2025

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NOTES: 1. ABOVE GRADE PUMP OUT TO BE PROVIDED ON DISCHARGE HEADER. BELOW GRADE PUMP OUT NOT REQUIRED.

- 2. VENT/PUMP OUT COMBINATION TO BE CENTERED BETWEEN PUMP DISCHARGE PIPING AND EXTEND 2.0' ABOVE PUMP DISCHARGE PIPING FOR FREE ROTATION. SECURE WITH SS U BOLTS
- SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 4. NO ODOR CONTROL PAD REQUIRED.

NOTES: 1. SINGLE SIDED PANEL TO BE UTILIZED.

- 2. PROVIDE ALUMINUM ACCESS PLATFORM AND STAIRS FOR ACCESS. TOP = ELEV. 9.58. PROVIDE CONCRETE PAD UNDER PLATFORM, STAIRS AND AS SHOWN.
- 3. SEE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.
- 4. CONCRETE POSTS FOR CONTROL PANEL RACK TO BE 6"X6"X12' LONG WITH MINIMUM OF 3'-0" EMBEDMENT.



DATE DESCRIPTION

DS RV DS
DESIGN DRAWN CHKD

SCALE NTS

JOB No. 340342/2012.0158

950 Encore Way Naples, FL 34110 honc (239) 254-200

> WATER-SEWER DISTRICT IER COUNTY, FLORIDA

ETAIL

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PS 308.

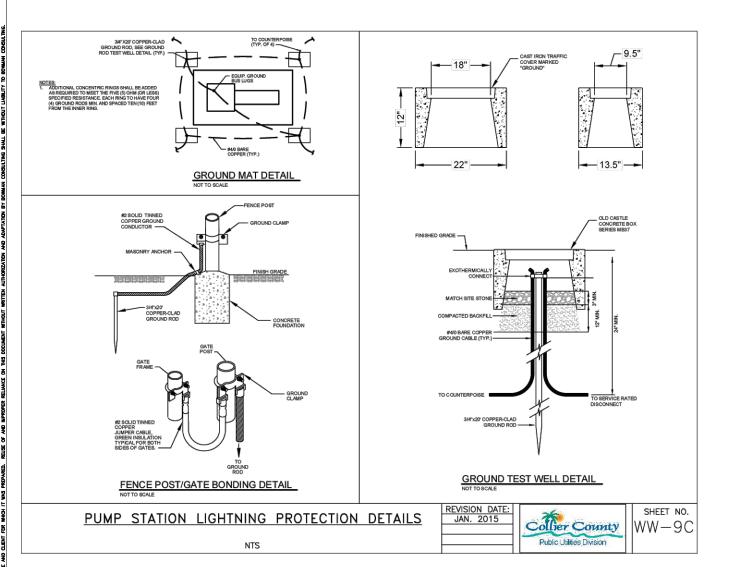
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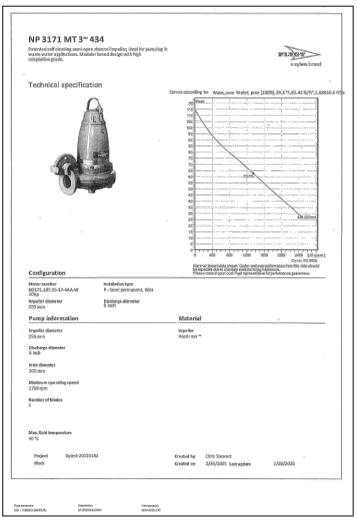
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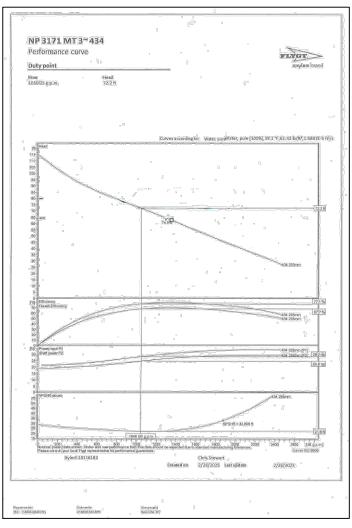
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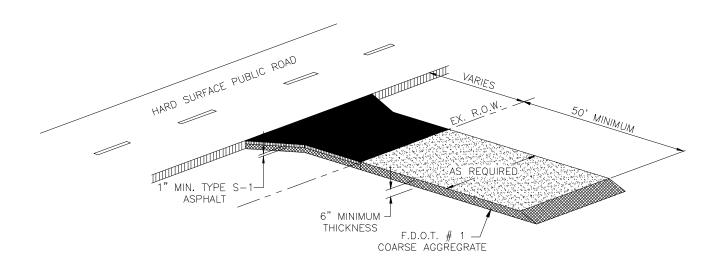
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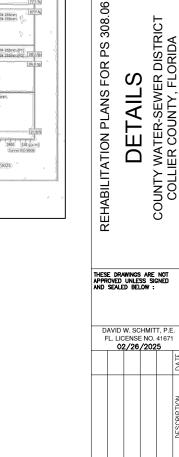








CONSTRUCTION ENTRANCE DETAILS N.T.S.



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COUNTY WATER-SEWER DISTRICT COLLIER COUNTY, FLORIDA **DETAILS**

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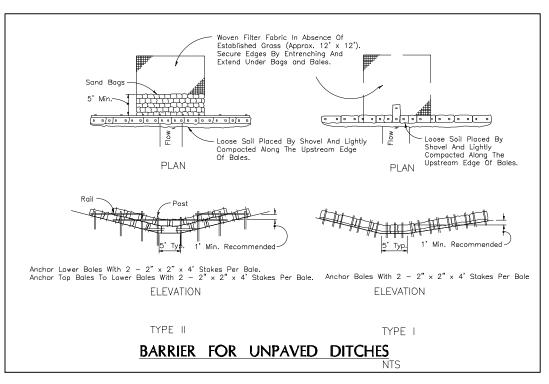
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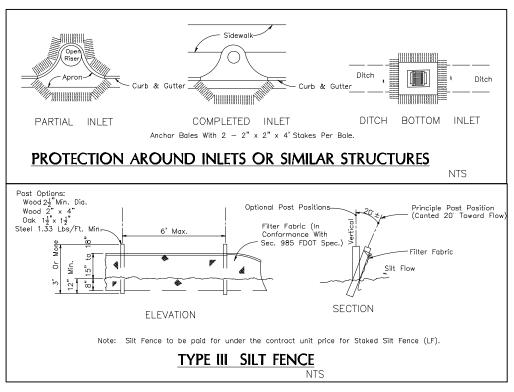
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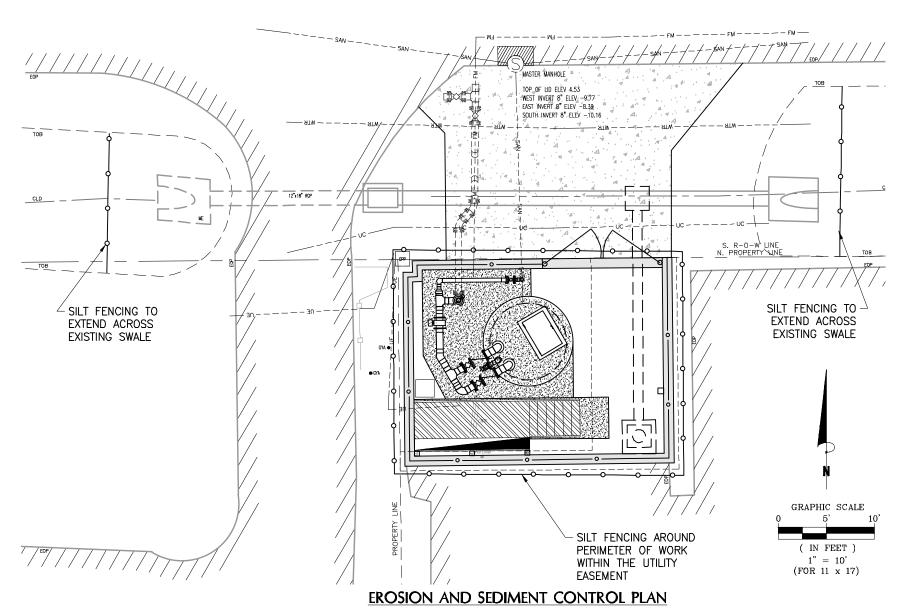
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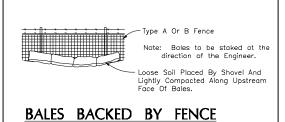
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EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL ABIDE BY ALL RULES AND CONDITIONS OF EXISTING SFWMD AND COLLIER COUNTY PERMITS.
- 2. ALL DISTURBED SLOPES SHALL BE SODDED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.
- 3. STRAW HAY BALES SHALL BE STAKED AROUND DISCHARGE STRUCTURES PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES.



DETAILS
Y WATER-SEWER DISTRICT
LIER COUNTY, FLORIDA

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REHABILITATION PLANS FOR PS 308.

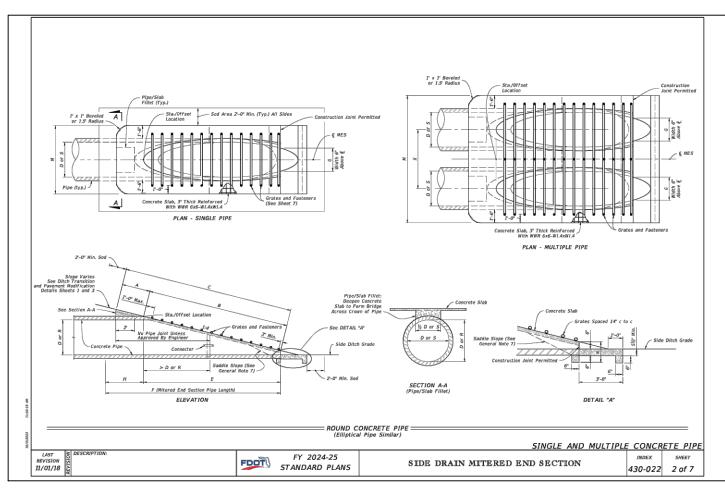
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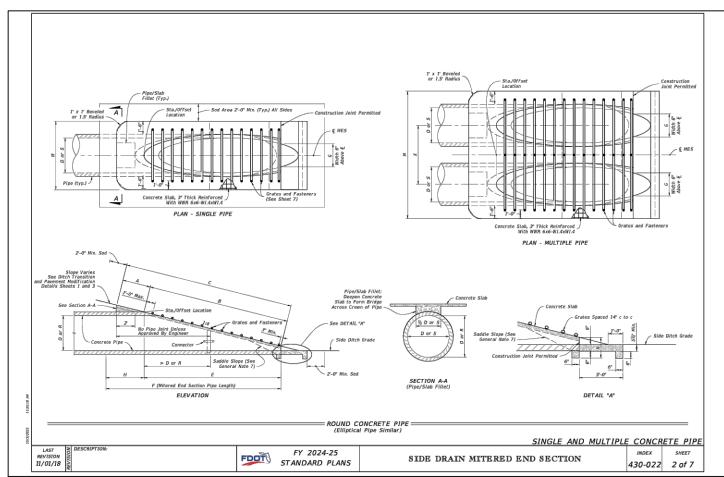
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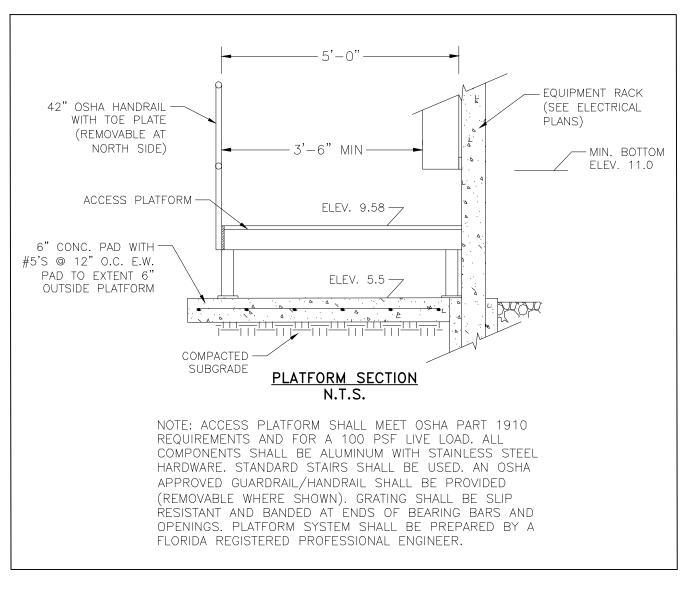
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DATE **02/26/2025** DETAILS

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ELORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

Naples, FL 34110 Phono (239) 254-2000 w.bowmanconsulting.con

DETAILS
COUNTY WATER-SEWER DISTRICT
COLLIER COUNTY, FLORIDA

REHABILITATION PLANS FOR PS 308.06

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DAVID W. SCHMITT, P.E.
FL. LICENSE NO. 41671
02/26/2025

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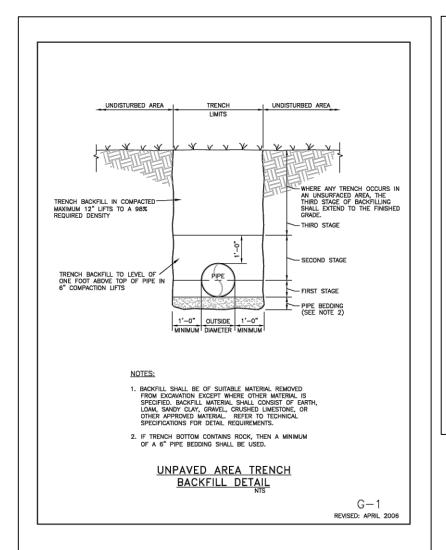
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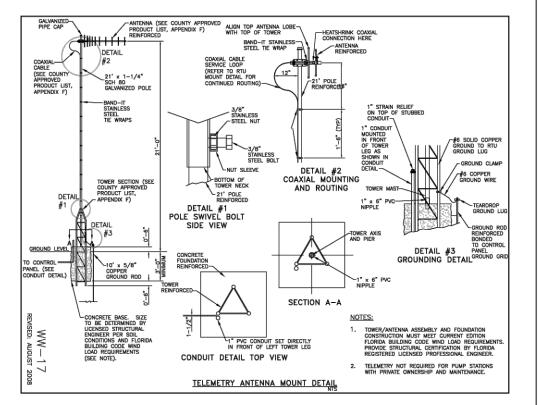
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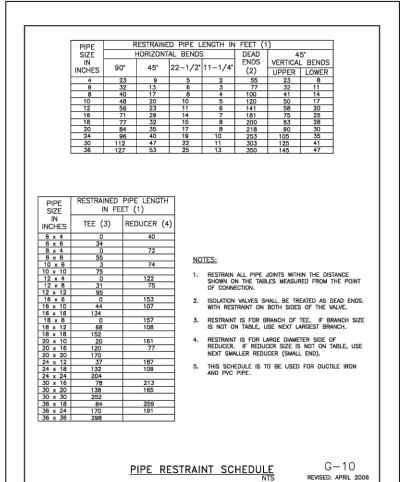
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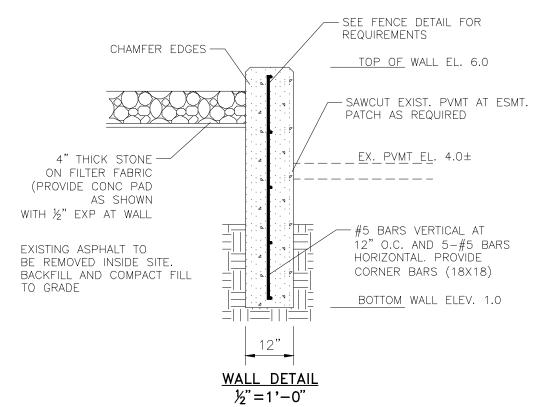
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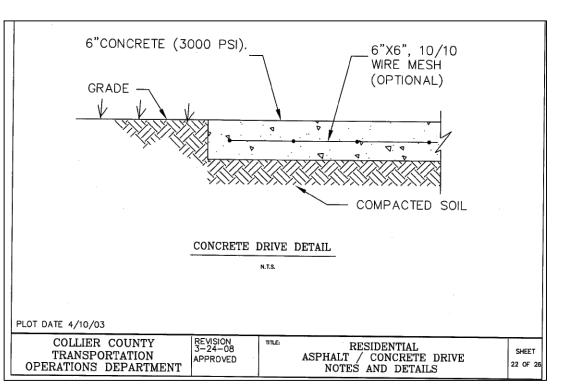








NOTE: PROVIDE CONTROL JOINT AT MIDPOINT OF EAST, WEST AND SOUTH WALLS. PROVIDE CONTROL JOINT AT WALL STEP DOWN AT NORTH WALL.





WATER-SEWER DISTRICT IER COUNTY, FLORIDA ETAIL

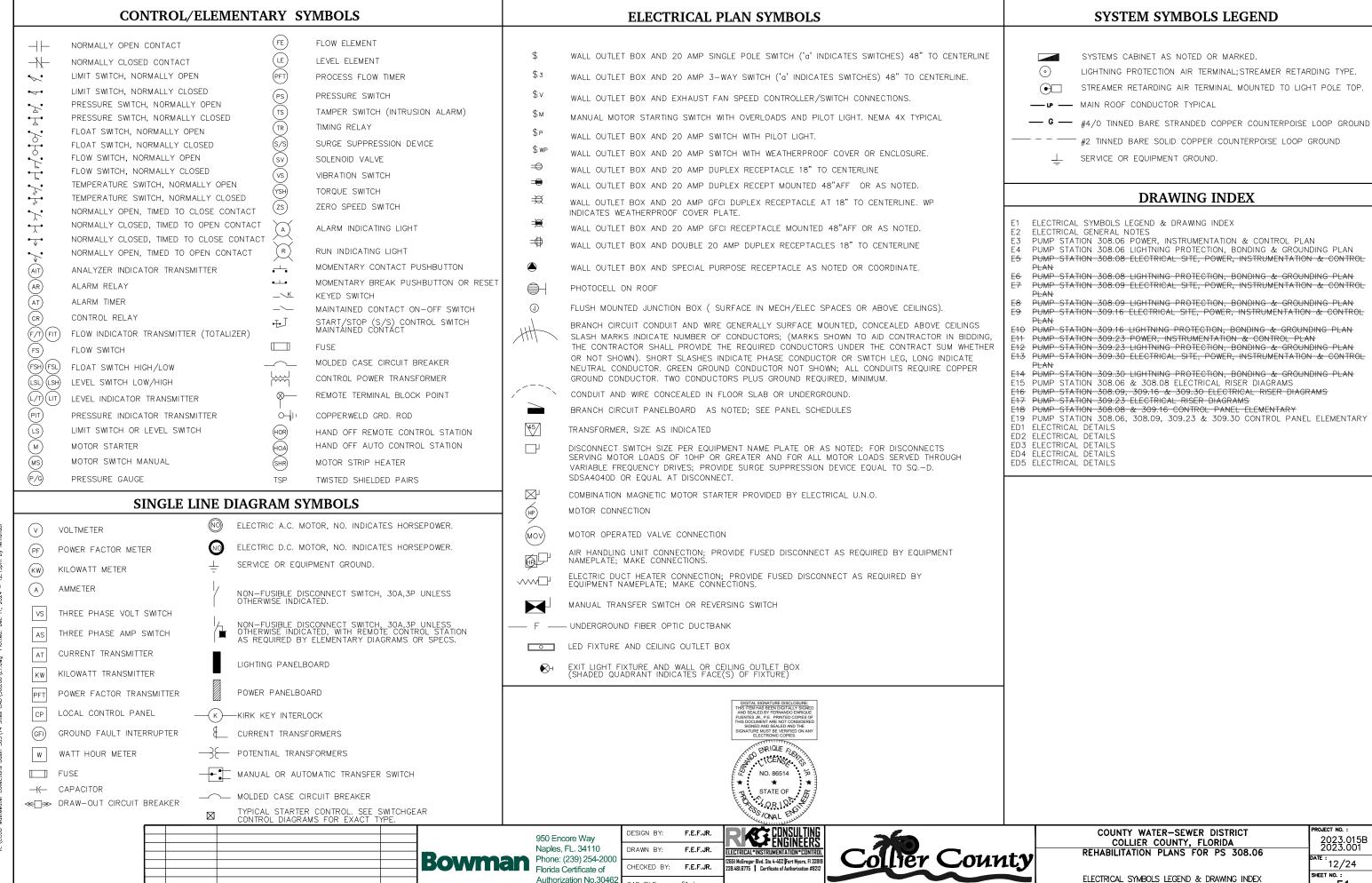
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DETAILS

M-11



NANDO E. FUENTES JR., P.E. #86514

ELECTRICAL SYMBOLS LEGEND & DRAWING INDEX

E 1

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, UTILITY REQUIREMENTS AND LOCAL CODES.
- 2. PROVIDE SCHEDULE 80 PVC CONDUIT BELOW GRADE.
- 3. CONDUCTORS SHALL NOT BE SPLICED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL DISCONNECTS, J-BOXES, TERMINAL CABINETS, ETC. & MOUNTING HARDWARE SHALL BE NEMA 4X STAINLESS STEEL UNLESS NOTED OTHERWISE.
- ALL CONDUITS (POWER, CONTROL, INSTRUMENTATION, ETC.) SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR SIZED PÉR TABLE 250.122 OF THE N.E.C.
- DO NOT ABANDON ELECTRICAL IN PLACE. REMOVE CONDUCTORS BACK TO PANEL/MCC. REMOVE CONDUIT BACK TO FIRST MANHOLE, HANDHOLÉ OR REUSE FOR NEW WORK. REMOVE COMPLETE DUCT BANK AND MANHOLES IF NOT BEING
- ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL508A APPROVED PANEL VENDOR AND SHALL BEAR A UL508A LABEL ON THE PANEL.
- DRAWINGS DO NOT SHOW EXACT ROUTING OF CONDUIT. COORDINATE CONDUIT LOCATIONS WITH OTHER TRADES SO THAT CONFLICTS ARE AVOIDED.
- PROVIDE A #2 BOND FROM ALL FIELD INSTRUMENTS, MOTORS, CONTROL PANELS, TERMINATION CABINETS, ETC TO THE GROUND GRID.
- 10. PROVIDE 2' MINIMUM DISTANCE BETWEEN PARALLEL RUNS OF LOW VOLTAGE 480V/120V POWER CONDUITS AND I&C CONDUITS. POWER CONDUIT SHALL CROSS INSTRUMENTATION CONDUIT PERPENDICULARLY AT RIGHT ANGLES WITH 6" SEPARATION FOR 480V/120V.
- 11. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS
- 12. PLAN DRAWINGS DO NOT SHOW ALL CONDUITS REQUIRED.
 PROVIDE ADDITIONAL CONDUIT FOR CONDUCTORS AS SHOWN ON RISER, ONE-LINE DIAGRAMS, DETAILS AND NOTES.
- 13. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS, IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES, MCC SECTION, I&C SHOP DRAWINGS & SCHEDULES & TAG LISTS, ETC.
- 14. 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
- 15. ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER
- 16. MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 30" UNLESS OTHERWISE NOTED.
- 17. PROVIDE COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 12" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS.
- 18. GROUNDING CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 19. ALL ENCLOSURES, TERMINAL CABINETS, WIREWAYS, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS BAR. CONNECT ALL RACEWAY BONDS TO BUS BAR VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM BUS BAR TO ENCLOSURE.

- 20. 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.
- 21. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
- 22. FLEXIBLE CONDUITS SHALL BE USED TO TERMINATE ALL MOTORS AND OTHER VIBRATING EQUIPMENT AND SHALL BE BETWEEN 18" AND 2' IN LENGTH.
- 23. PROVIDE TYPEWRITTEN PANEL SCHEDULES IN PANELBOARD & TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN TERMINAL CABINETS; PROPOSED & MODIFIED.
- 24. BRANCH CIRCUITS EXCEEDING 75 FT IN LENGTH SHALL BE WIRED WITH MINIMUM #10 AWG WIRES.
- 25. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL AND STRUCTURAL DRAWINGS AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT. REFER TO SITE SURVEY DRAWINGS FOR EXACT LOCATIONS OF EXISTING FACILITIES.
- 26. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL INSTRUMENT/CONTROL EQUIPMENT LOCATIONS WITH THE MECHANICAL DRAWINGS AND THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. LOCATIONS SHOWN ON DRAWING ARE APPROXIMATE ONLY. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CONTROL CABLING REQUIRED WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. DOCUMENT COORDINATION TO THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL WIRE INTO AND OUT OF CONTROL CABINETS SHALL BE TYPE TC CONTROL CABLE WITH MULTIPLE CONDUCTORS, #14 STRANDED WIRE AS SPECIFIED; TYPICAL THROUGHOUT.
- ALL WIRE INTO AND OUT OF INSTRUMENTATION CABINETS SHALL BE TYPE TO TWISTED SHIELDED INSTRUMENT CABLE WITH MULTIPLE CONDUCTOR PAIRS OF #16 STRANDED WIRE AS SPECIFIED; TYPICAL
- 29. ALL SPARE/FUTURE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION

NOTE TO CONTRACTOR:

- 1. EQUIPMENT LOCATIONS SHOWN ON PLANS ARE APPROXIMATE PREFERRED LOCATIONS ONLY.
- 2. WORK IN THE RIGHT OF WAY REQUIRES RIGHT OF WAY PERMIT. COORDINATE EQUIPMENT RACK LOCATION WITH PIPING AND RIGHT OF WAY
- 3. COORDINATE FINAL LOCATION OF EQUIPMENT WITH COUNTY, DOCUMENT COORDINATION TO ENGINEER.
- 4. PROVIDE MAINTENANCE OF TRAFFIC WHERE WORK IN RIGHT AWAY REQUIRES IT.

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REVISIONS

950 Encore Way Naples, FL. 34110 Phone: (239) 254-2000 Florida Certificate of Authorization No 30462

DESIGN BY:

DRAWN BY:

CHECKED BY:

CAD FILE:

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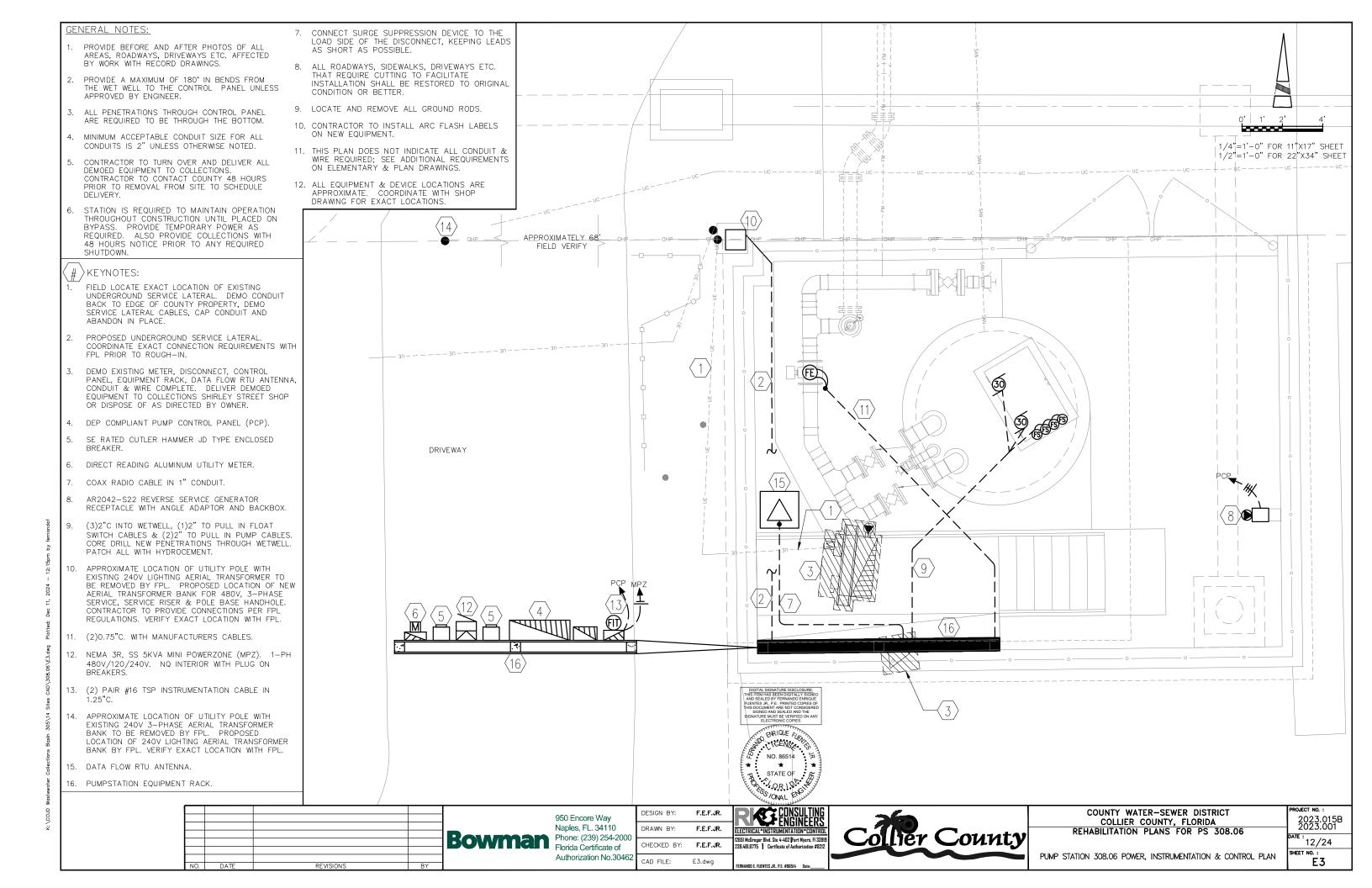


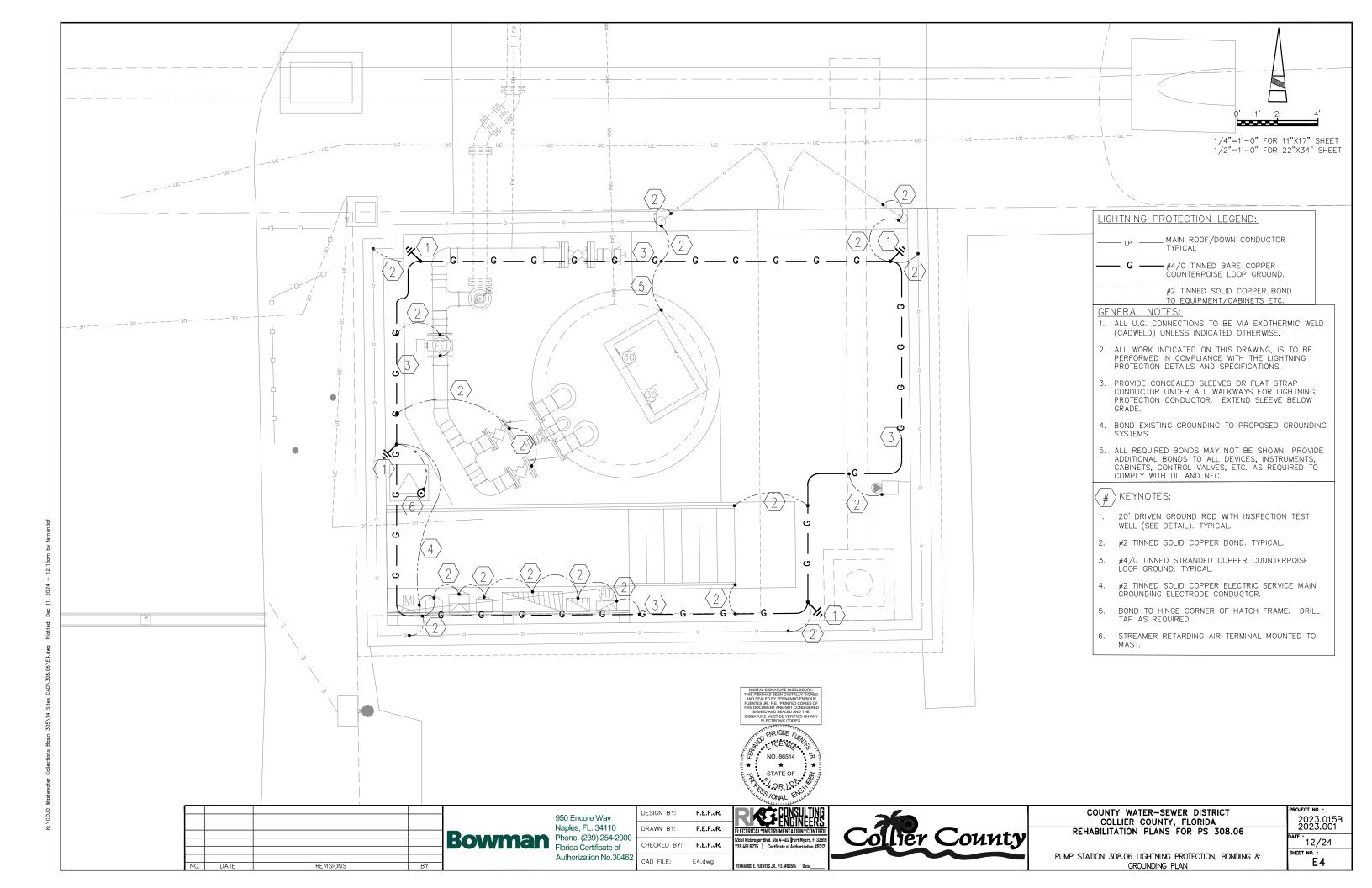
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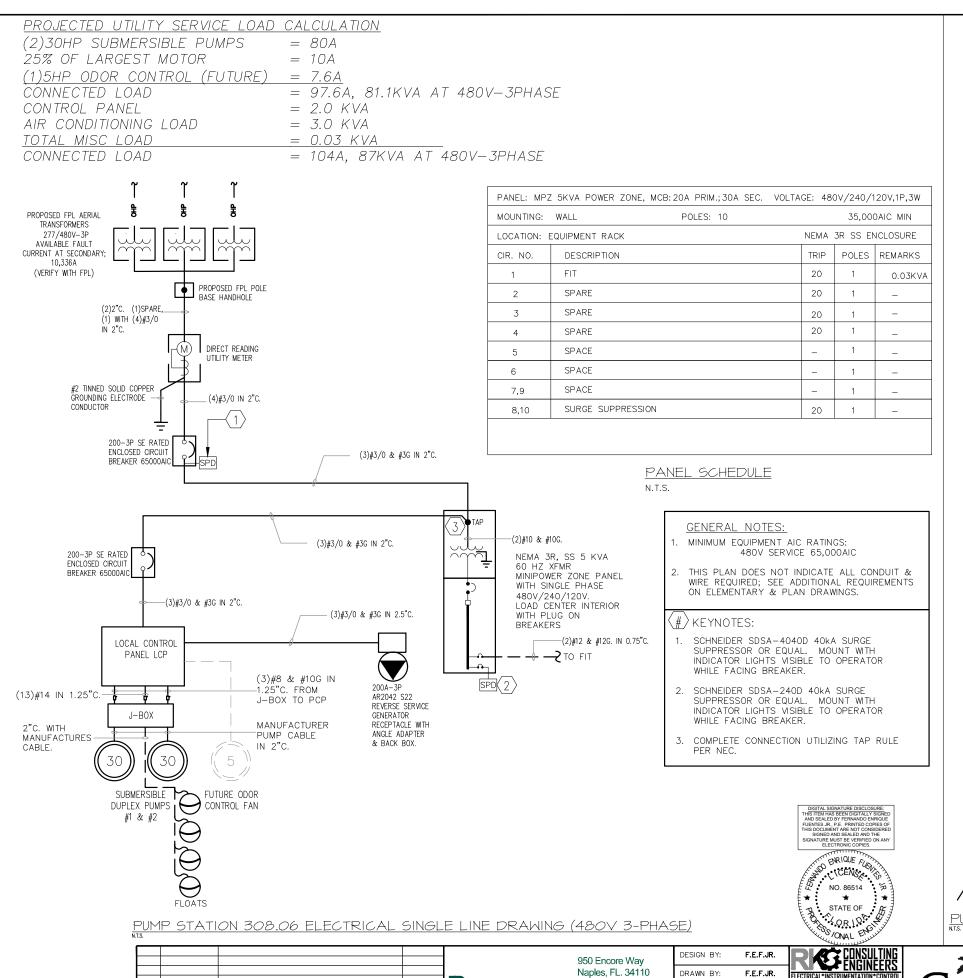
ELECTRICAL GENERAL NOTES

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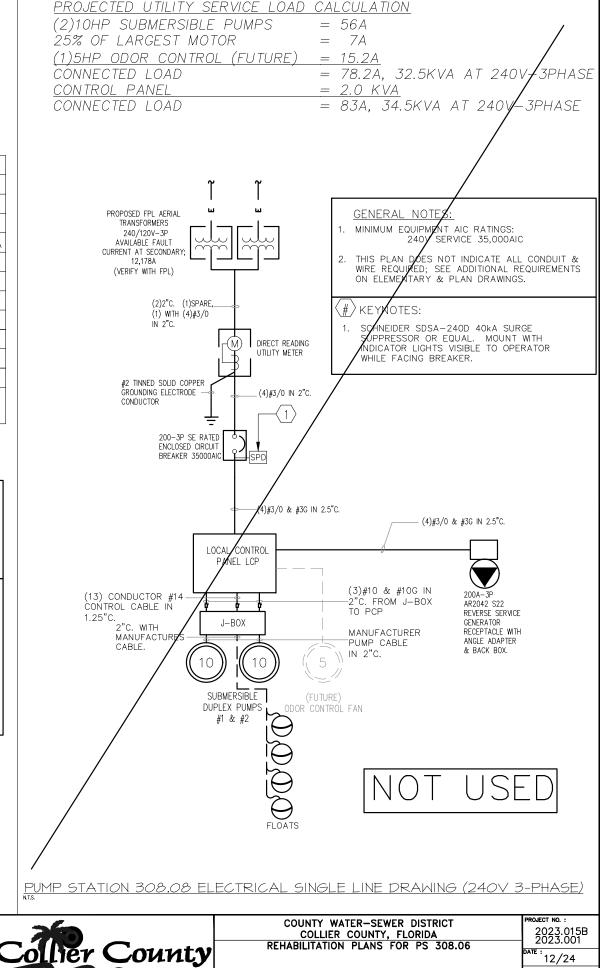
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PUMP STATION 308.06 & 308.08 ELECTRICAL RISER DIAGRAMS

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