COLLIER COUNTY, FLORIDA

LEGAL DESCRIPTION

PARCEL A FOR WELLS 1 & 2:

TRACT 10, FOXFIRE UNIT 3, ACCORDING TO THE PLAT RECORDED IN PLAT BOOK 13, PAGES 101 THROUGH 103 INCLUSIVE, OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA

PARCEL B FOR WELL 3:

Lots 147, 148, 149, 150, 151, 152, and 153, The Naples Groves and Truck Company's Little Farms No. 2 as recorded in Plat Book 1, Page 27, of the Public Records of Collier County, Florida, LESS AND EXCEPT the South 75 feet of all of said lots.

REGION

PARCEL A FOR WELLS 1 & 2: SECTION 6, TOWNSHIP 50, RANGE 26 PUD-93-5 93-31; ORD. 93-31

PARCEL B FOR WELL 3: SECTION 1, TOWNSHIP 50, RANGE 25 PUD-93-5 93-31; ORD. 93-31

PARCEL INFORMATION

PARCEL A FOR WELLS 1 & 2: 33885720006

PARCEL B FOR WELL 3: 61844640005

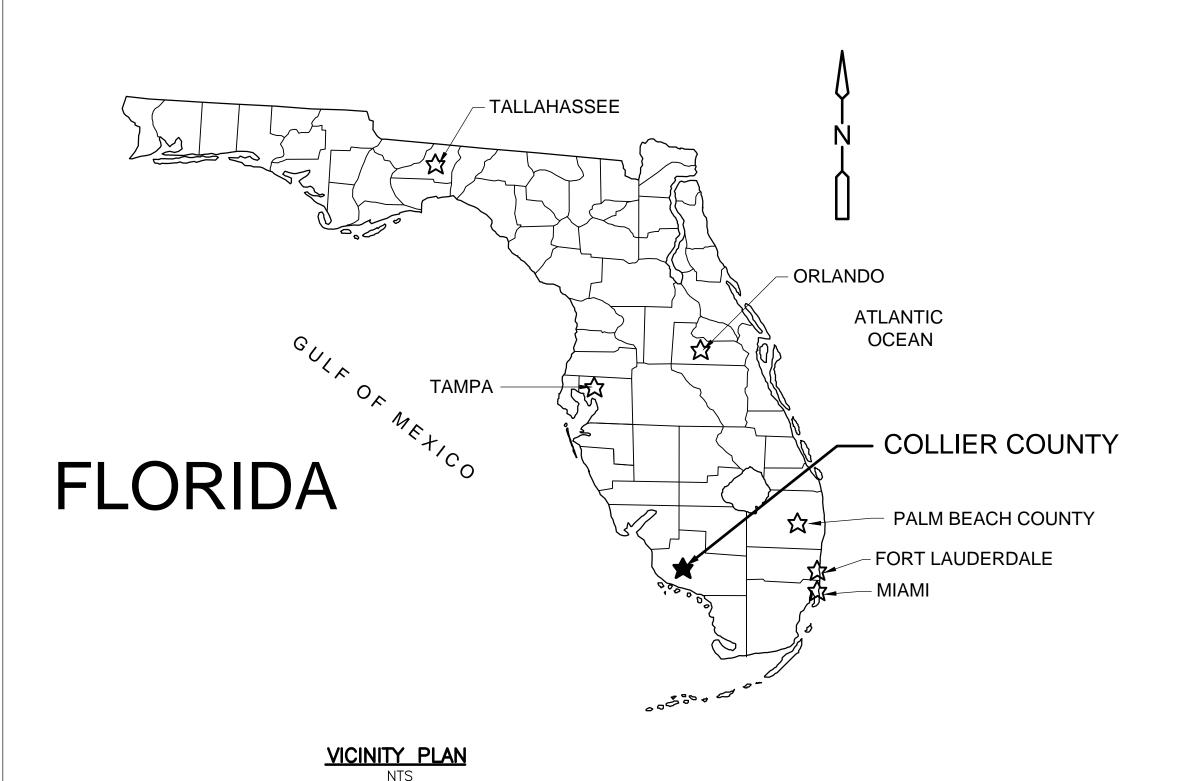
FOXFIRE WELLS

COLLIER COUNTY PROJECT NO. 70234.1



PREPARED FOR/ OWNED BY:
COLLIER COUNTY BOARD OF
COMMISSIONERS, UTILITIES DIVISION
3301 TAMIAMI TRAIL E #H-3
NAPLES, FL 34112

WELL NO. 1 AND NO. 2 LOCATION



COLLIER COUNTY COMMISSION:

DISTRICT 1: RICK LOCASTRO DISTRICT 2: CHRIS HALL

DISTRICT 4: BANKOWAL

DISTRICT 4: DAN KOWAL
DISTRICT 5: WILLIAM L. MCDANIEL, JR.

COUNTY MANAGER: AMY PATTERSON

JULY 2024

CDM Smith

9160 FORUM CORPORATE PKWY, SUITE 230 FT. MYERS, FLORIDA 33905 TEL: 239-938-9600 FL COA NO. EB-0000020



WELL NO. 3 — LOCATION

IMAGE OBTAINED FROM GOOGLE EARTH PRO SEPT 2022

LOCATION MAP

NTS

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| | |
| INSTRUMENTATION | |
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| I - 2 | INSTRUMENTATION LEGEND II |
| 1–3 | SYSTEM ARCHITECTURE |
| | PROCESS AND INSTRUMENTATION DIAGRAM WELLS NO. 1 AND NO. 2 |
| 1-4 | The season with the first |
| I-4 I-5 | PROCESS AND INSTRUMENTATION DIAGRAM WELL NO. 3 |

REMARKS

| GENERAL | <u>SYMBOLS</u> |
|--------------------------------|----------------|
| ADJUSTABLE | ADJ |
| ALUMINUM | AL., ALUM. |
| ANGLE | <. |
| BARE ROOT | BR |
| BELOW | BEL |
| BELOW LAND SURFACE | BLS |
| BENCHMARK | ВМ |
| BETWEEN | BTWN. |
| CENTER LINE | Ę |
| CENTER TO CENTER | C.C. |
| CORRUGATED METAL PIPE | CMP |
| CONCRETE | CONC |
| CONE PENETRATION TEST | CPT |
| CENTER (ED) | CTR |
| COUNTY UTILITY EASEMENT | C.U.E. |
| DRAIN | D |
| DEMOLITION | DEMO |
| DIAMETER | DIA., DIAM. |
| DIAGONAL | DIAG. |
| DIMENSION | DIM. |
| DISCHARGE | DISCH |
| DRAWING | DWG. |
| EACH | EA. |
| ELEVATION | EL., ELEV. |
| EFFLUENT | EFF. |
| EDGE OF PAVEMENT | EOP |
| EXISTING | EXIST., EX. |
| EXISTING YARD GRADE | EYG |
| FURNISHED BY OTHERS | FBO |
| FINISH | FIN. |
| FLOOR | FL. |
| FINISH PLANT WATER | FPW |
| FINISH YARD GRADE | FYG |
| FEET/FOOT | FT |
| FINISH WATER | FW |
| HIGH | H. |
| HIGH POINT | H.P. |
| HEIGHT | HT |
| INFLUENT | INFL. |
| ION EXCHANGE EFFLUENT | IXE |
| IRRIGATION QUALITY WATER | IQW |
| LOW BOINT | LG. |
| LOW POINT | L.P. |
| MATERIAL | MTL. |
| MANUFACTURING | MFG. |
| MANUFACTURER | MFR. |
| MAXIMUM MITERED END SECTION | MAX. MES |
| MECHANICAL | MECH. |
| METAL | MET. |
| MINIMUM | MIN. |
| MOUNTED | MTD. |
| MUD VALVE | MV |
| NATIONAL ELECTRIC CODE | NEC |
| NOMINAL | NOM. |
| NOT TO SCALE | N.T.S. |
| NUMBER | NO. |
| ON CENTER | O.C. |
| OPTION | OPT. |
| OPPOSITE | OPP. |
| OPENING | OPNG |
| OR EQUAL | O/E. |
| PERFORATED | PERF |
| PIECE | PC. |
| POINT | PT. |
| POUND(S) | LB(S). |
| PLATE | PL. |
| DDFCACT | DDCCT |

ABBREVIATIONS

| GENERAL (CONT.) SYMBOI | <u>_S</u> |
|---|-----------|
| SCHEDULE SCH | |
| SQUARE SQ. | |
| STAINLESS STEEL SST | |
| SIDEWALK SDWK. | |
| SECTION SEC. | |
| SHEET SH., SHT. | |
| STANDARD ST'D | |
| STEEL STL. | |
| STORM WATER STW | |
| STANDARD PENETRATION TEST SPT | |
| STANDARD PENETRATION TEST @ WELLSITE SPTW | |
| SYMMETRICAL SYMM. | |
| TEMPORARY TEMP. | |
| THREADED THD. | |
| THICK THK. | |
| TOP OF BANK TOB. | |
| TOP OF SLOPE TOS. | |
| TYPICAL TYP. | |
| UTILITY EASEMENT U.E. | |
| VERTICAL VERT. | |
| WATER WTR. | |
| WATER LEVEL WL | |
| WATER MAIN WM | |
| WEATHERPROOF WPF. | |
| WELL RESTORATION WATER WRW | |
| WEST W. | |
| WITH W/ | |

| VALVES, FITTINGS, ETC. | <u>SYMBOLS</u> |
|-------------------------|----------------|
| AIR RELIEF VALVE | ARV |
| AIR VACUUM VALVE | AVV |
| BALL CHECK VALVE | BCV |
| BALL VALVE | BAV |
| BLIND FLANGE | B.F. |
| BURIED GEAR OPERATOR | ВО |
| BUTTERFLY VALVE | BFV |
| COMBINATION AIR VALVE | CAV |
| CHECK VALVE | CV |
| ELECTRIC VALVE ACTUATOR | EVA |
| ELEVATED GEAR OPERATOR | EO |
| EXPANSION JOINT | EXJ |

| VALVES, FITTINGS, CONT. | <u>SYMBOLS</u> |
|--------------------------------------|----------------|
| FIRE HYDRANT | FH |
| FITTINGS | FTG |
| FLANGED ADAPTER | FA |
| FLEXIBLE COUPLING | FC |
| FLOOR BOX (BUSHING TYPE) | FB |
| FLOOR STAND | FS |
| GROOVED END (VICTAULIC) JOINT | GRV |
| GATE VALVE | GV |
| HARNESSED FLANGE ADAPTER COUPLING | HFAC |
| HOSE BIBB | НВ |
| HYDRAULIC VALVE ACTUATOR | HVA |
| MECHANICAL JOINT PLUG | MJP |
| PLASTIC BALL VALVE | PBV |
| PLASTIC CHECK VALVE | PCV |
| PLUG VALVE | PV |
| PRESSURE CONTROL VALVE | PCV |
| SILENT CHECK VALVE | SCV |
| SLANTING DISC CHECK VALVE | SDCV |
| UNION | UN |
| VALVE BOX | VB |
| VICTAULIC COUPLING (GROOVED ENDS) | VC (G) |
| VICTAULIC COUPLING (SHOULDERED ENDS) | VC (S) |
| WALL SLEEVE | WS |
| WALL PIECE (WITH WATER STOP) | WP |
| | |

| <u>PIPE</u> | |
|-------------------------------|------|
| ASBESTOS CEMENT PIPE | ACP |
| BLACK STEEL PIPE | BSP |
| CAST IRON | CI |
| CAST IRON PIPE | CIP |
| CAST IRON SOIL PIPE | CISP |
| CONCRETE PRESSURE PIPE | CPP |
| COPPER PIPE | CU |
| CORRUGATED METAL PIPE | CMP |
| DUCTILE IRON PIPE | DIP |
| DUCTILE IRON | DI |
| FIBERGLASS REINFORCED PIPE | FRP |
| FLANGE | FLG |
| GALVANIZED STEEL PIPE | GSP |
| MECHANICAL JOINT | MJ |
| METAL REINFORCED PLASTIC PIPE | MRPP |
| POLYETHYLENE PIPE | PP |
| POLYVINYLCHLORIDE | PVC |
| REINFORCED CONCRETE PIPE | RCP |
| RESTRAINED JOINT | RJ |
| SLIP-ON JOINT | SJ |
| STEEL PIPE | SP |
| STAINLESS STEEL | SST |
| TIED JOINT | TJ |

VITRIFIED CLAY PIPE

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NO. 83413 STATE OF OR IDA

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| | DATE: |
|---|--|
| | ISAAC D. HOLOWELL |
| ╛ | DATE: ISAAC D. HOLOWELL PE NO. 83413 |

PROJECT NO. 6295-267302

FILE NAME: GOO1NFDX.DWG SHEET NO. G-1

A. EDWARDS I. HOLOWELL M. SUNYAK 9160 FORUM CORPORATE PARKWAY, Suite 230 Fort Myers, FL 33905 Tel: (239) 938-9600 FL COA No. EB-0000020 I. HOLOWELL

PRECAST

RADIUS

ROOM

REQUIRED

RAW SEWAGE

RIGHT OF WAY

PRIMARY EFFLUENT

RECLAIMED WATER

REINFORCED CONCRETE PIPE

REVERSE OSMOSIS PERMEATE

RAW WATER - BRACKISH

RAW WATER - FRESH

PRCST PEFL

RAD., R.

RCP

REW

RM.

ROP

R/W

RWB

RWF

REQ'D

COLLIER COUNTY, FLORIDA

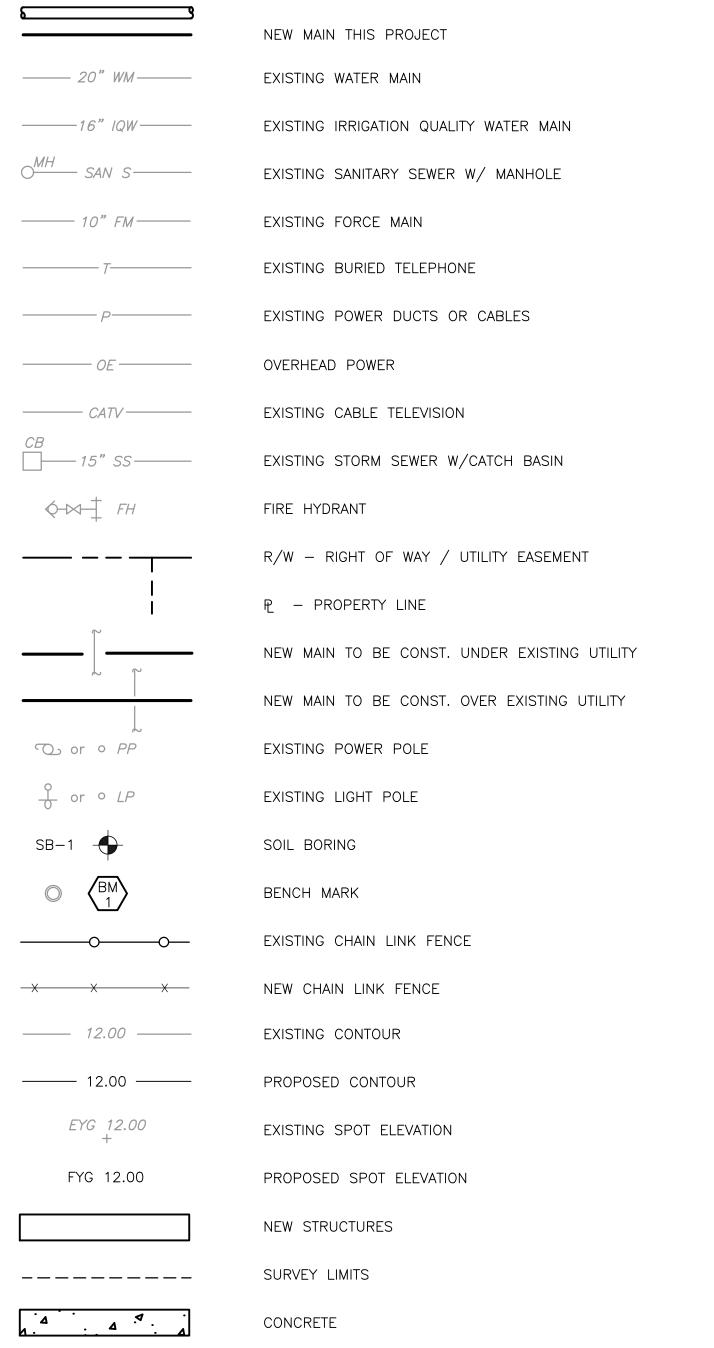
FOXFIRE WELLS

SHEET INDEX AND ABBREVIATIONS

DATE DRWN CHKD

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- 1. ALL ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM FROM 1988.
- 2. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES
- 3. CONTRACTOR SHALL VERIFY ALL UTILITIES AND NOTIFY THE OWNER 72 HOURS PRIOR TO DIGGING IN ANY PORTION OF THE SITE.
- 4. CONTRACTOR SHALL DISINFECT THE WELL AND DISCHARGE PIPING PER THE SPECIFICATIONS.
- 5. THE CONTRACTOR SHALL CONDUCT PRIMARY AND SECONDARY DRINKING WATER STANDARDS TEST AS REQUIRED IN THE PROJECT SPECIFICATIONS. THIS INCLUDES PULLING SAMPLES AND SUBMITTING TO CERTIFIED LABORATORY FOR TESTING.
- 6. THE CONTRACTOR SHALL REPLACE ALL DRAINAGE CULVERTS, FENCES, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON FINDING ANY CONFLICTS OR UNSUITABLE CONDITIONS DURING CONSTRUCTION ON ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
- 8. EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. THEY SHALL BE INSTALLED AS REQUIRED IN THE DRAWINGS AND SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS.
- 9. NO REPRESENTATION IS MADE REGARDING BALANCED EARTHWORK. ANY EXCESS MATERIAL, OR MATERIAL NOT SUITABLE FOR USE AS BACKFILL, SHALL BE PLACED IN PERMANENT STOCKPILE AREA DESIGNATED BY THE OWNER AND STABILIZED IN ACCORDANCE WITH THE SPECIFICATION. NO MATERIAL SHALL BE REMOVED FROM SITE WITHOUT APPROVAL IN WRITING FROM THE OWNER.
- 10. CONTRACTOR IS RESPONSIBLE FOR CALCULATING AND PROVIDING/REMOVING ANY FILL REQUIRED FOR COMPLETION OF PROJECT.
- 11. FINISHED GRADE FOR GROUND ELEVATIONS ON DRAWINGS REFER TO GRADE AFTER SODDING OR OTHER SURFACE TREATMENT.
- 12. DUE TO ITS LOCATION WITH RESPECT TO THE WATER TABLE THE PORTION OF THE UNDEVELOPED SITE WITHIN THE PROJECT LIMITS IS SUBJECT TO SEASONAL STANDING WATER.
- 13. SOD SHALL BE INSTALLED ON ALL SIDESLOPES AND DRAINAGE DITCHES, DISTURBED OR ALTERED DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT.
- 14. ALL PIPING SHALL HAVE 30 INCH MINIMUM COVER UNLESS OTHERWISE NOTED. MAXIMUM DEPTH OF COVER PER COLLIER COUNTY DESIGN CRITERIA IS 48 INCHES BELOW FINISHED GRADE.
- 15. UNLESS OTHERWISE NOTED, ALL ABOVE-GROUND PIPE SHALL BE CEMENT-MORTAR LINED DUCTILE IRON WITH FLANGED JOINTS. WHERE BUTTERFLY VALVES ARE INSTALLED IN CEMENT-MORTAR LINED DUCTILE IRON PIPE, THE VALVE DISC MUST BE CLEAR OF THE CEMENT LINING.
- 16. UNLESS OTHERWISE NOTED, ALL BURIED PIPE SHALL BE AWWA C-900 PVC WITH CEMENT-MORTAR LINED DUCTILE IRON FITTINGS WITH MECHANICAL OR RESTRAINED JOINTS, AS INDICATED ON THE DRAWINGS.
- 17. CONTRACTOR IS RESPONSIBLE FOR EVACUATING THE AIR IN EXISTING AND NEW PIPING PRIOR TO STARTUP AND TESTING.

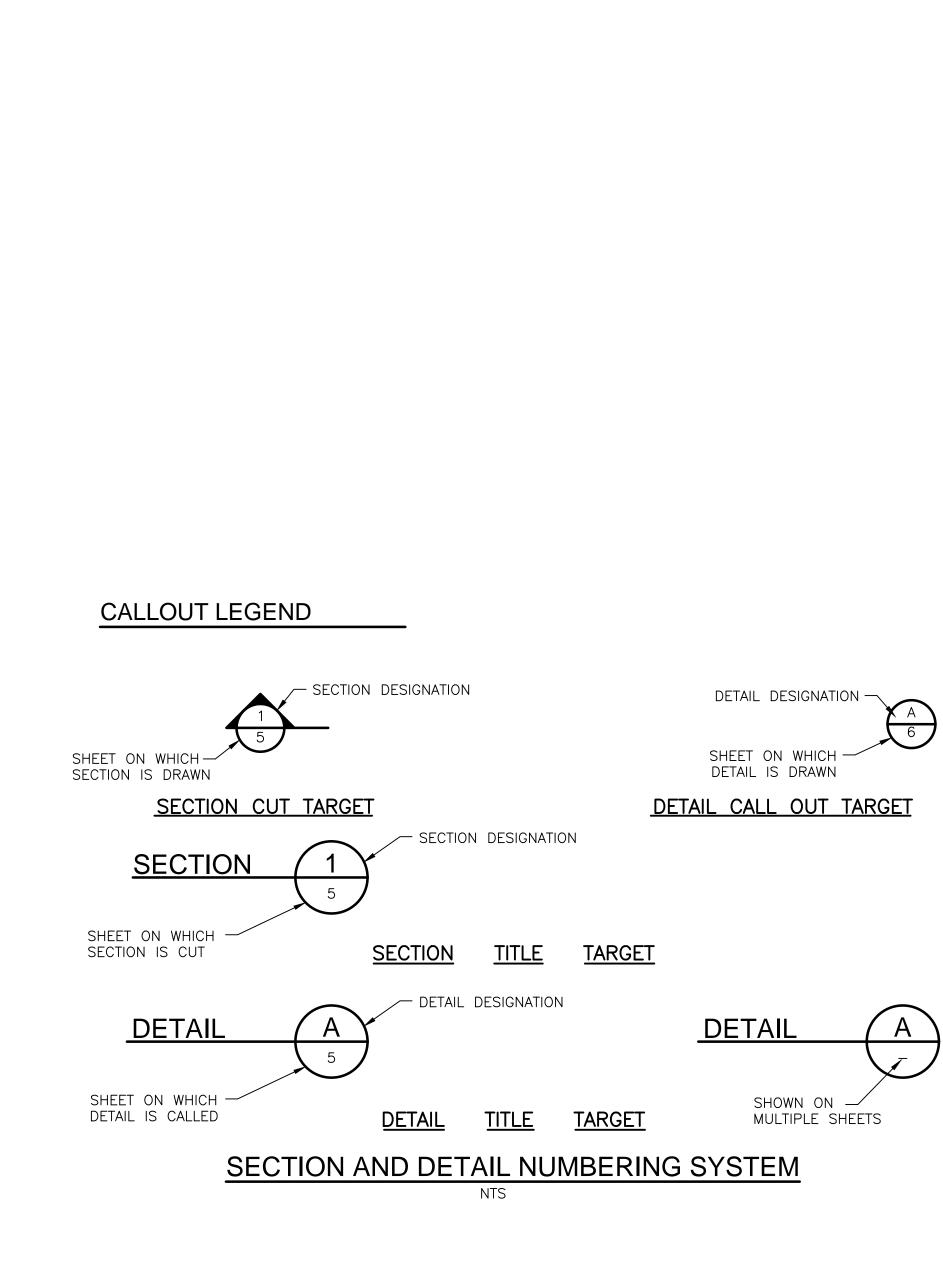


LEGEND

ASPHALT

GRAVEL ACCESS ROAD

YARD HYDRANT



SURVEY LEGEND

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NO. 83413 STATE OF COR LOA SONAL ENGI DATE:

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ISAAC D. HOLOWELL PE NO. 83413

PROJECT NO. 6295—26730 FILE NAME: G002NFLD.DW

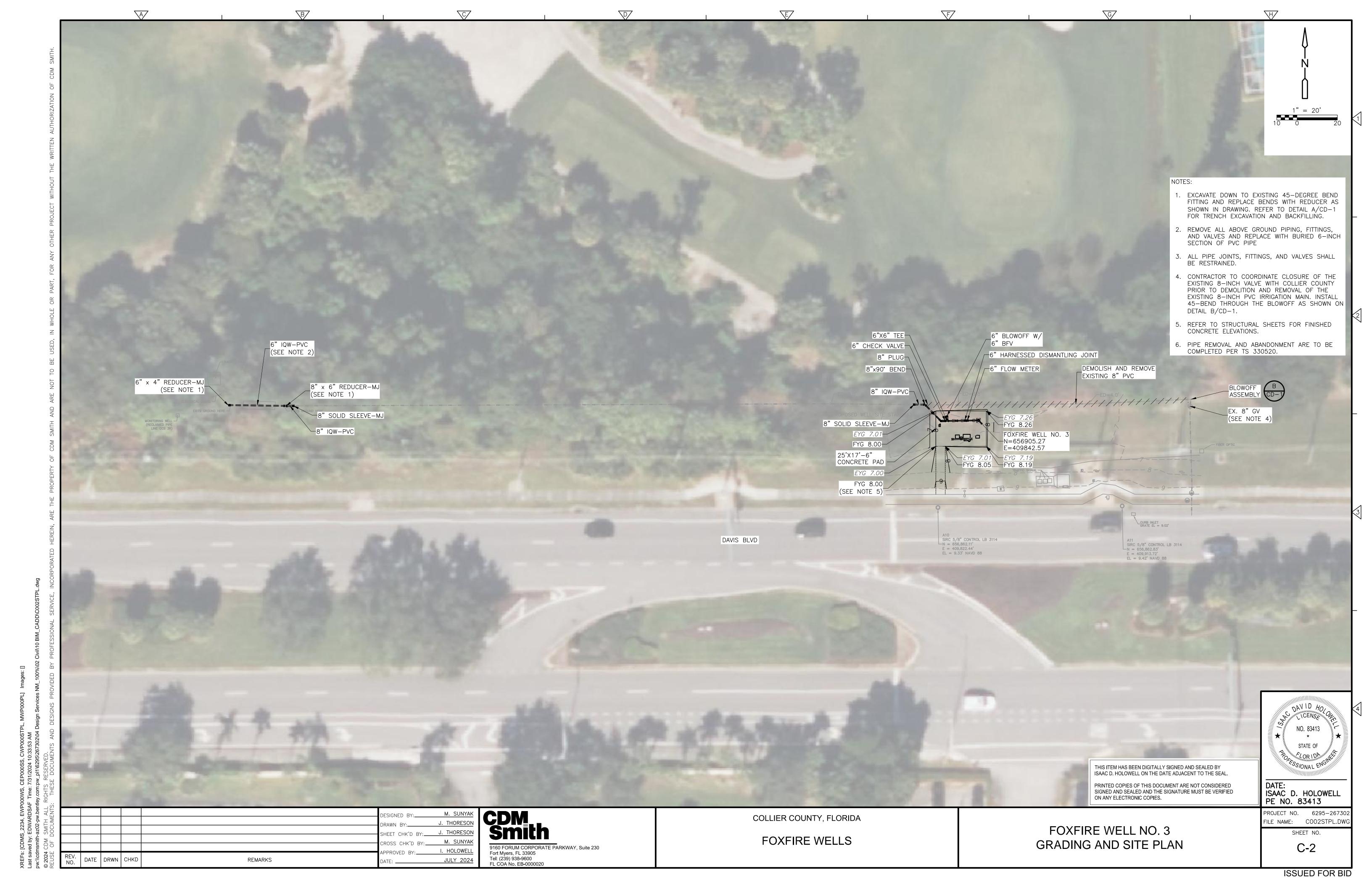
SHEET NO. G-2

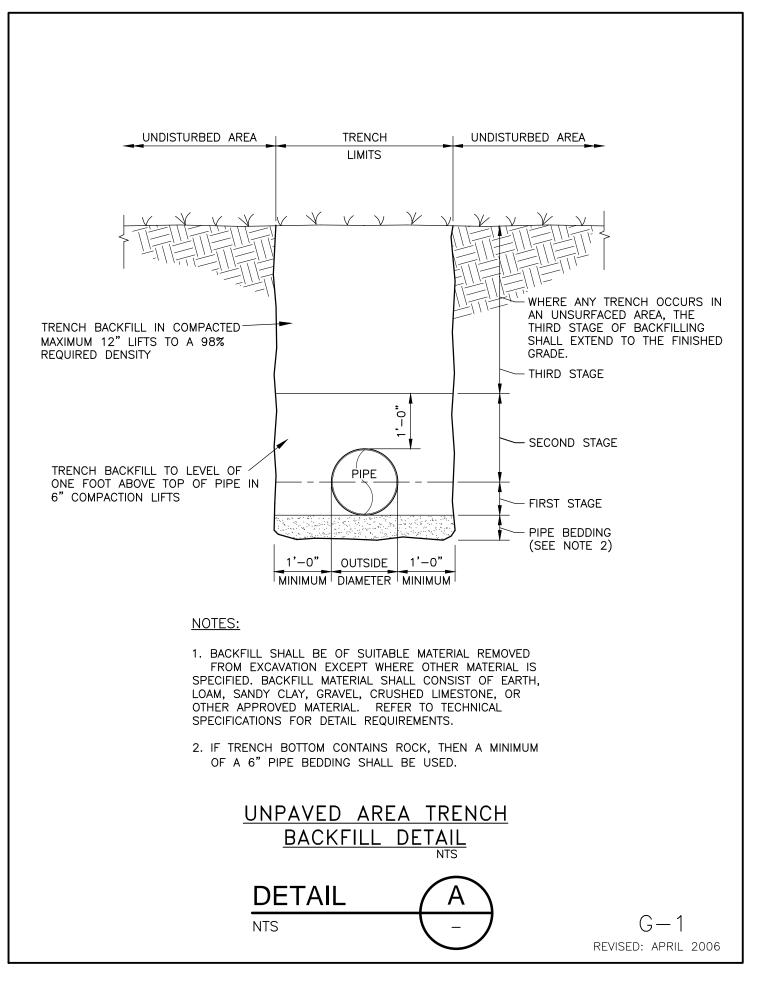
A. EDWARDS I. HOLOWELL M. SUNYAK I. HOLOWEL DATE DRWN CHKD REMARKS

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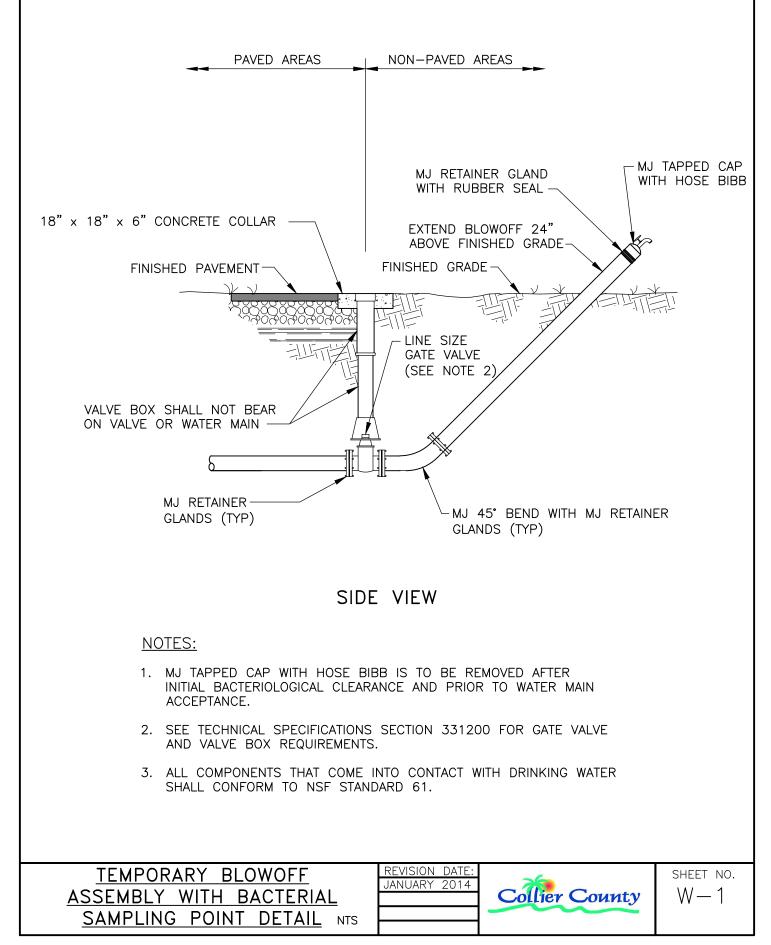
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PROJECT NO. 6295-26730 FILE NAME: CD01CMDT.DW

> SHEET NO. CD-1

NO. 83413

STATE OF S COR LOP

J. THORESON M. SUNYAK I. HOLOWEL DATE DRWN CHKD REMARKS

9160 FORUM CORPORATE PARKWAY, Suite 230 Fort Myers, FL 33905 Tel: (239) 938-9600 FL COA No. EB-0000020

FOXFIRE WELLS

COLLIER COUNTY, FLORIDA

CIVIL DETAILS I

GENERAL NOTES

DESIGN CRITERIA:

\A/

CODES:

- FLORIDA BUILDING CODE EIGHTH EDITION (2023)

- ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

DESIGN LOADS:

LIVE LOADS:

- SLABS ON GRADE

200 PSF

 $2,000 \text{ FT}^2$

N/A

N/A

WIND DESIGN DATA:

– RISK CATEGORY:

ASCE 7-22 - ULTIMATE DESIGN WIND SPEED, VIJIT (3-SECOND GUST): 180 MPH 50 MPH - TORNADO SPEED, V_T : 140 MPH - NOMINAL DESIGN WIND SPEED, V_{ASD}:

\B/

- EFFECTIVE PLAN AREA, A: WIND EXPOSURE CATEGORY: - ENCLOSURE CLASSIFICATION: - INTERNAL PRESSURE COEFFICIENT:

FLOOD DESIGN DATA:

1. WELL SLABS NO. 1 AND NO. 2:

- ACCORDING TO MAP NO. 12021C0413H, PANEL 413 OF 1225, DATED MAY 16, 2012, THIS PROPERTY LIES IN FLOOD ZONE "AH":

- 1% ANNUAL CHANCE FLOOD BASE FLOOD ELEVATION, BFE:

EL 8.5 FEET NAVD 88

2. WELL SLAB NO. 3:

- ACCORDING TO MAP NO. 12021C0394H, PANEL 394 OF 1225, DATED MAY 16, 2012, THIS PROPERTY LIES IN FLOOD ZONE "AH":

- 1% ANNUAL CHANCE FLOOD BASE FLOOD ELEVATION, BFE:

EL 8.0 FEET NAVD 88

CONCRETE 28-DAY STRENGTH:

- SLABS, WALLS, FOOTINGS

4000 PSI

REINFORCING STEEL:

- ALL BARS ASTM A615, GRADE 60

FOUNDATIONS:

- ALLOWABLE BEARING PRESSURE FOR SLAB ON GRADE OVER PREPARED SUBSURFACE: 2.000 PSF

GENERAL CONDITIONS:

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE CIVIL, MECHANICAL, ELECTRICAL AND SHOP DRAWINGS AND SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE STRUCTURE, SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.

FOR ALL ITEMS EMBEDDED IN OR PASSED THROUGH CONCRETE, THE CONTRACTOR SHALL INITIALLY REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR TYPE. SIZE, LOCATION AND SPECIAL INSTALLATION REQUIREMENTS FOR THESE ITEMS.

THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATION AND OTHERS.

SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.

ANY EQUIPMENT THAT MAY INDUCE VIBRATION TO THE STRUCTURE SHALL BE ADEQUATELY ISOLATED FROM THE STRUCTURES.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSE-WHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

UNLESS OTHERWISE NOTED, ALL PIPES UNDER SOIL SUPPORTED STRUCTURAL SLABS AND FOOTINGS SHALL BE ENCASED IN REINFORCED CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS. PIPES SHALL BE PRESSURE TESTED BEFORE ENCASING. NOT ALL PIPING SHOWN ON STRUCTURAL DRAWINGS. REFER TO CIVIL AND MECHANICAL FOR PIPING SIZE AND LOCATIONS.

CONCRETE:

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 REQUIREMENTS.

ALL CONCRETE SHALL BE AIR-ENTRAINED AT 28 DAYS UNLESS OTHERWISE NOTED.

WATER REDUCING AGENT SHALL BE IN ACCORDANCE WITH ASTM C494.

ALL CONCRETE SURFACES EXPOSED TO AIR. UNLESS OTHERWISE NOTED IN SPECIFICATIONS. SHALL BE TREATED WITH AN APPROPRIATE CURING COMPOUND AS SOON AS CONCRETE FINISHING IS COMPLETED OR FORMS ARE REMOVED.

ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A MINIMUM CHAMFER OF 34" UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR THE LOCATION OF CONSTRUCTION JOINTS THAT ARE NOT SHOWN ON THE DRAWING.

REINFORCING STEEL:

REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 REQUIREMENTS.

ALL ACCESSORIES SHALL BE IN CONFORMANCE WITH ACI 315 REQUIREMENTS. REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER UNLESS OTHER-WISE NOTED:

- CONCRETE CAST AGAINST EARTH

- FORMED SURFACES IN CONTACT WITH SOIL, SEWAGE, WATER OR EXPOSED TO WEATHER

LAP SPLICES SHALL BE AS SHOWN ON THE DRAWINGS. FOR LAP SPLICES NOT

SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN ENGINEER'S

THE CONTRACTOR SHALL PREPARE PLACING DRAWINGS AND SCHEDULES IN CONFORMANCE WITH ACI 315 REQUIREMENTS.

GEOTECHNICAL REPORTS:

1. WELL SLABS NO. 1 AND NO. 2:

GEOTECHNICAL ENGINEERING REPORT ENTITLED "FOXFIRE COMMUNITY 0.5 MGD WATER WELLS, 5500 RADIO ROAD, NAPLES, COLLIER COUNTY, FLORIDA," PREPARED BY YPC CONSULTING GROUP, P.L., DATED JANUARY 18, 2022.

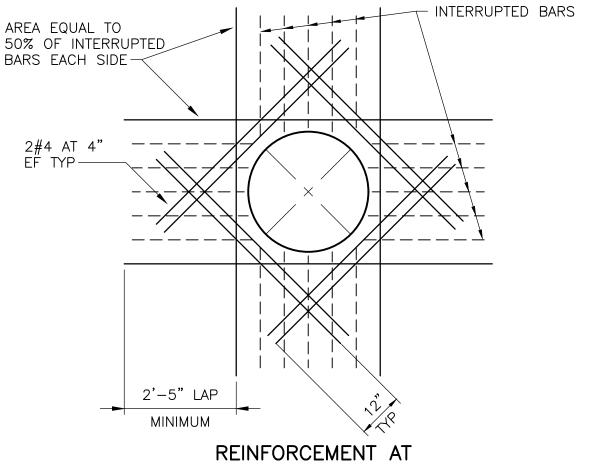
2. WELL SLAB NO 3:

GEOTECHNICAL ENGINEERING REPORT ENTITLED "FOXFIRE COMMUNITY METERING ASSEMBLY AND WATER WELL #3, 4591 DAVIS BOULEVARD (WELL), NAPLES, COLLIER COUNTY, FLORIDA," PREPARED BY YPC CONSULTING GROUP, P.L., DATED JUNE 7, 2022.

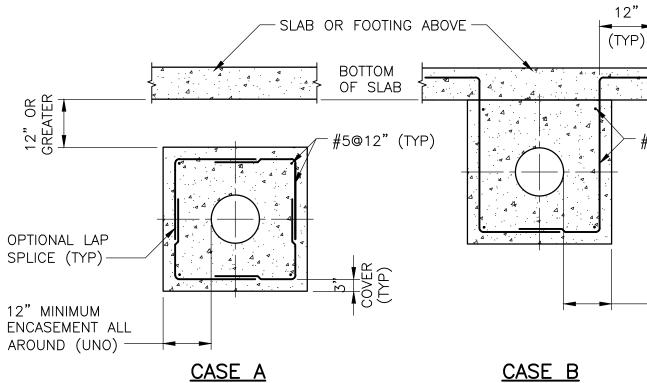
ABBREVIATIONS:

| AL | ALUMINUM | OC | ON CENTER |
|-------|-----------------|-------|---------------------------|
| BOT | BOTTOM | PCJ | PARTIAL CONTRACTION JOINT |
| CONC | CONCRETE | PL | PLATE |
| CONT | CONTINUOUS | PLF | POUNDS PER LINEAR FOOT |
| DIA | DIAMETER | PROJ | PROJECTION |
| DWG | DRAWING | PSF | POUNDS PER SQUARE FOOT |
| EF | EACH FACE | PSI | POUNDS PER SQUARE INCH |
| EL | ELEVATION | REINF | REINFORCEMENT |
| EW | EACH WAY | SPECS | SPECIFICATIONS |
| HORIZ | HORIZONTAL | SS | STAINLESS STEEL |
| HP | HIGH POINT | STD | STANDARD |
| ID | INSIDE DIAMETER | T&B | TOP AND BOTTOM |
| LP . | LOW POINT | | TOP OF STRUCTURE |
| MAT'L | MATERIAL | TYP | TYPICAL |
| MAX | MAXIMUM | UON | UNLESS OTHERWISE NOTED |
| MIN | MINIMUM | VERT | VERTICAL |
| MISC | MISCELLANEOUS | VIF | VERIFY IN FIELD |
| NTS | NOT TO SCALE | | |

NOTE: THESE ABBREVIATIONS ARE FOR USE ON STRUCTURAL DRAWINGS ONLY.



CIRCULAR OPENINGS GREATER THAN 12" **DETAIL**



3xOD 3xOD MIN MIN 2"NOMINAL ID MAX ^{_}OD=T/3 MAX

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CONDUIT NOTES:

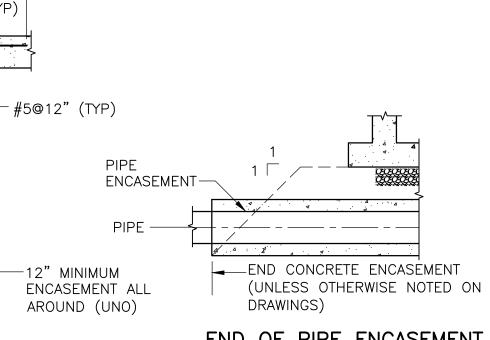
CONCRETE PIPE ENCASEMENT

DETAIL

- 1. NO CONDUIT SHALL BE EMBEDDED IN STRUCTURAL BEAMS. COLUMNS. WALLS OR SLABS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWING
- 2. CONDUIT SHALL BE PLACED 6" BELOW SLABS
- 3. WHERE CONDUIT MUST PASS THROUGH A SLAB OR WALL, MINIMUM SIZE AND SPACING REQUIREMENT PER THIS DETAIL
- 4. ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE UNLESS COATED TO PREVENT ALUMINUM—CONCRETE REACTION

CONDUIT IN SLAB





END OF PIPE ENCASEMENT UNDER STRUCTURES

PIPE ENCASEMENT NOTES:

1. MINIMUM ENCASEMENT

PIPES LESS THAN 12"ø -6"

PIPES 12"ø AND GREATER - 12" 2. ALL PIPES SHALL BE PRESSURE TESTED BEFORE CONCRETE

3. ALL BELOW GRADE PIPES SHALL BE SUPPORTED ON CONCRETE BLOCKS PRIOR TO CASTING OF CONCRETE BEDDING. SIZE AND SPACING OF CONCRETE BLOCK SUPPORTS SHALL BE PER PIPE MANUFACTURER.

4. FOR ALL PIPES 12"Ø AND LARGER, ENCASEMENT SHALL BE CAST IN TWO POURS. INITIAL CAST SHALL BE CURED FOR 12 HOURS BEFORE CASTING THE SECOND POUR.

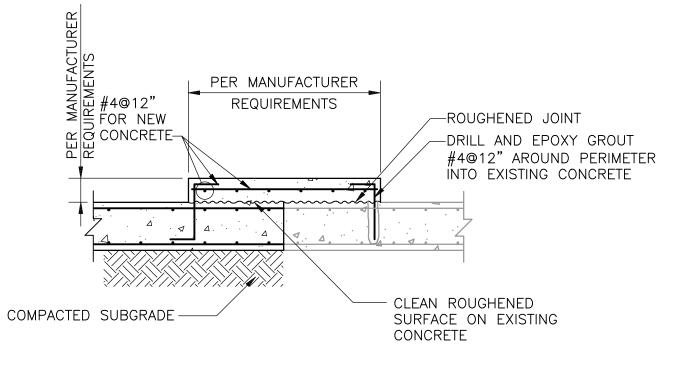
5. THE DEPTH OF THE INITIAL POUR SHALL BE SELECTED TO PREVENT FLOATATION OF THE PIPE. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT FLOATATION OF THE PIPE DURING CONCRETING.

6. ENCASE ALL PIPES BELOW SLABS AND FOOTINGS. EXTEND ENCASEMENT AS SHOWN IN DETAIL, BEYOND EDGE OF SLAB OR

7. MAINTAIN MINIMUM COVER FOR LAPS FOR PIPES SMALLER THAN 6"Ø.

8. FOR CASE "A", PROVIDE A PARTIAL CONTRACTION JOINT AT EACH PIPE JOINT. MAXIMUM SPACING BETWEEN PARTIAL CONTRACTION JOINTS 24'-0".

9. FOR CASE "B", PROVIDE A JOINT IN THE PIPE AT EACH JOINT IN STRUCTURE. PROVIDE CONSTRUCTION JOINTS IN ENCASEMENT AT LOCATIONS OF CONSTRUCTION JOINTS IN STRUCTURE. PROVIDE PARTIAL CONTRACTION JOINTS IN ENCASEMENT AT LOCATIONS OF CONTROL JOINTS AND EXPANSION JOINTS IN STRUCTURE.



HOUSEKEEPING PAD FOR NEW OR EXISTING SLAB



This item has been digitally signed and sealed by Kevin M. Francoforte on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO. 73949 STATE OF DATE:

KEVIN M FRANCOFORTE PE NO. 73949

PROJECT NO. 6295-26730

FILE NAME: SOO1STNT.DW

SHEET NO.

S-1

STRUCTURAL GENERAL NOTES

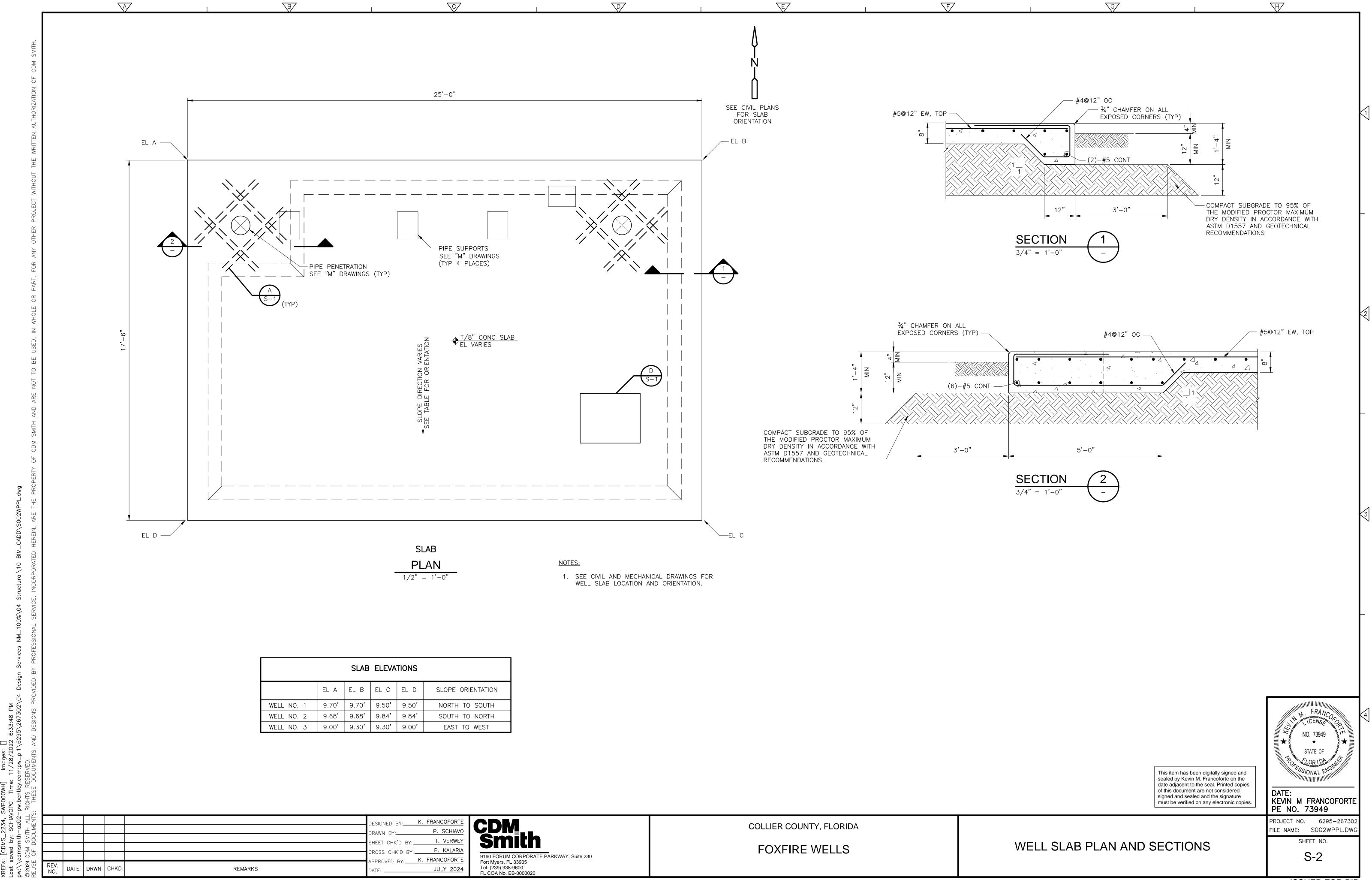
COLLIER COUNTY, FLORIDA

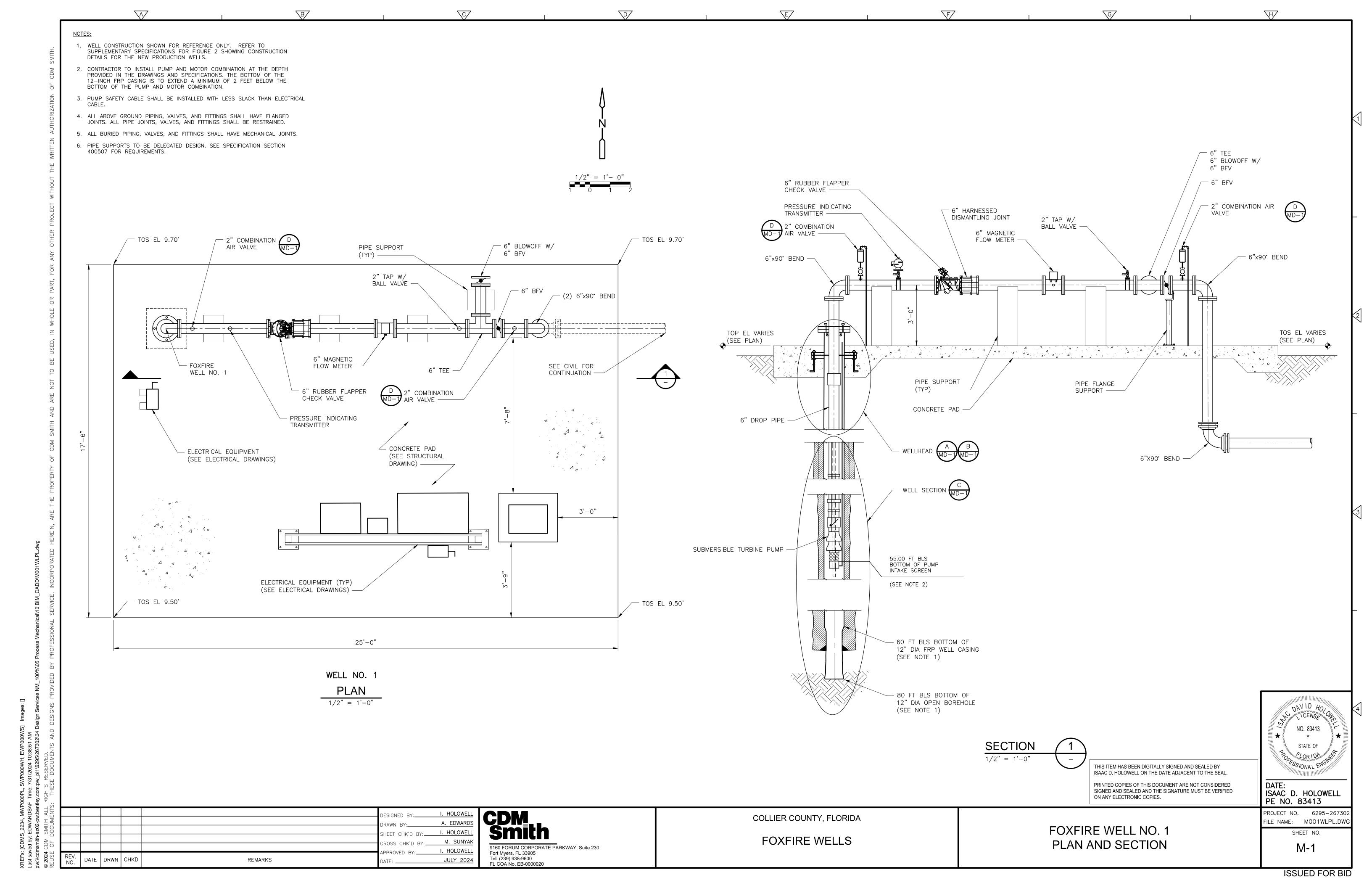
AND DETAILS

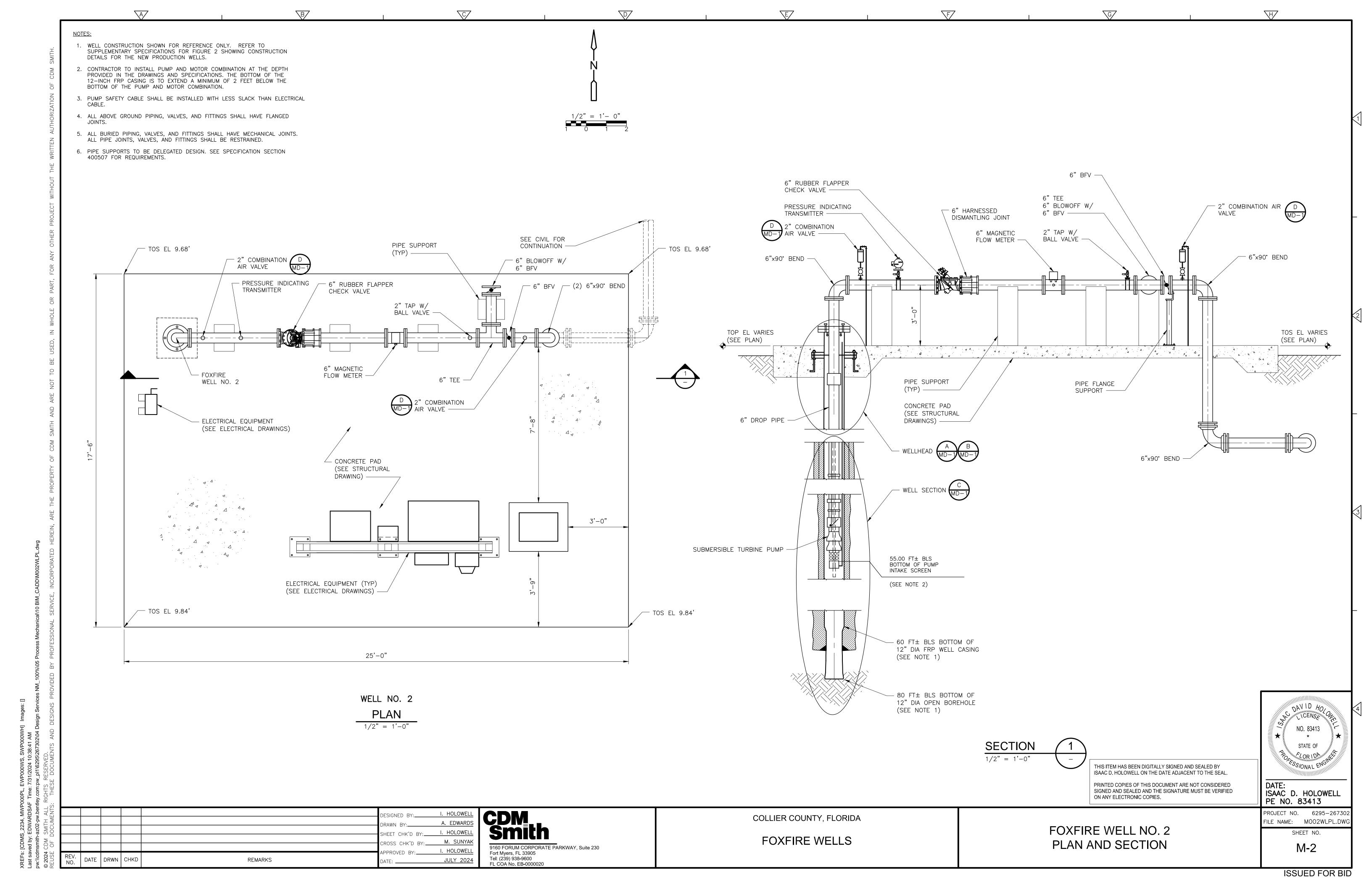
K. FRANCOFOR P. SCHIAVO T. VERWEY **FOXFIRE WELLS** P. KALARIA 9160 FORUM CORPORATE PARKWAY, Suite 230 K. FRANCOFORTE Fort Myers, FL 33905 Tel: (239) 938-9600 FL COA No. EB-0000020

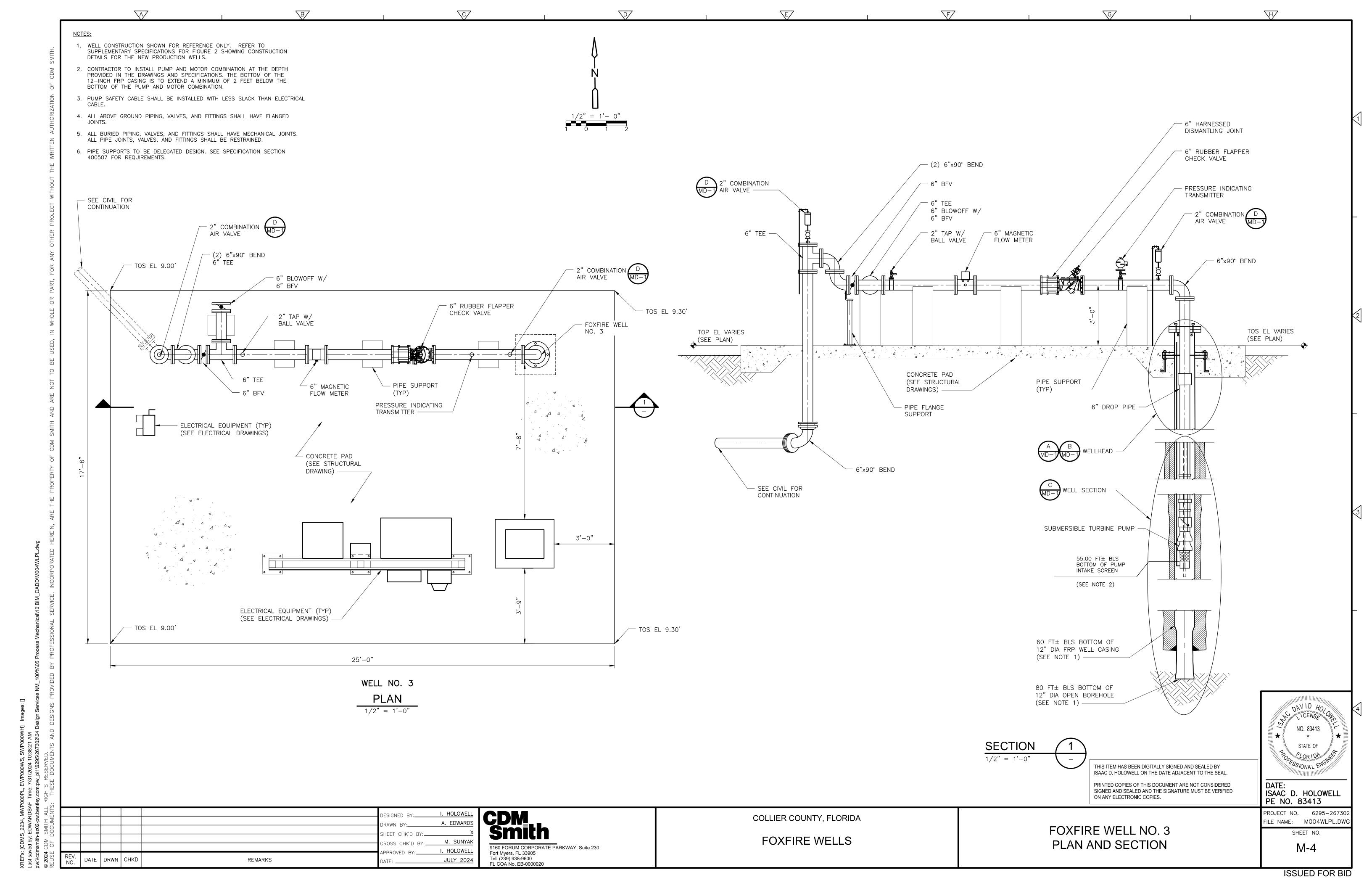
ISSUED FOR BID

DATE DRWN CHKD REMARKS

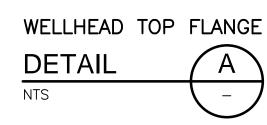




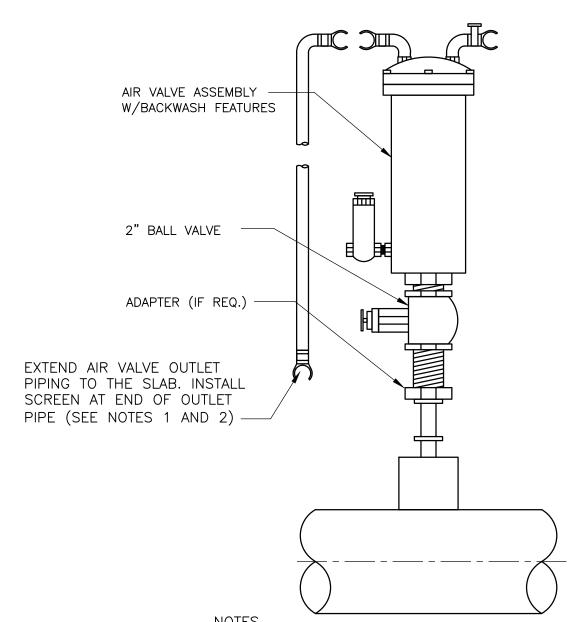




A



| PORT ID | PORT SIZE | PURPOSE |
|---------|-----------|--------------------------|
| А | 2.0" | 1" COMBINATION AIR VALVE |
| В | 2.0" | ELECTRICAL CONDUIT |
| С | 2.0" | MANUAL LEVEL MONITORING |
| D | 2.0" | LEVEL TRANSDUCER |



2. PIPE DIAMETERS SHALL MATCH THE AIR VALVE INLET AND OUTLET DIAMETERS.

> AIR RELEASE VALVE **DETAIL**

| | | | | | DESIGNED BY: | I. HOLOWEL |
|-------------|------|------|------|---------|-----------------|-------------|
| | | | | | DRAWN BY: | A. EDWARD |
| | | | | | SHEET CHK'D BY: | |
| | | | | | CROSS CHK'D BY: | |
| | | | | | APPROVED BY: | I. HOLOLWEL |
| REV. NO. | DATE | DRWN | CHKD | REMARKS | DATE: | JULY 202 |



COLLIER COUNTY, FLORIDA

FOXFIRE WELLS

MISCELLANEOUS DETAILS I

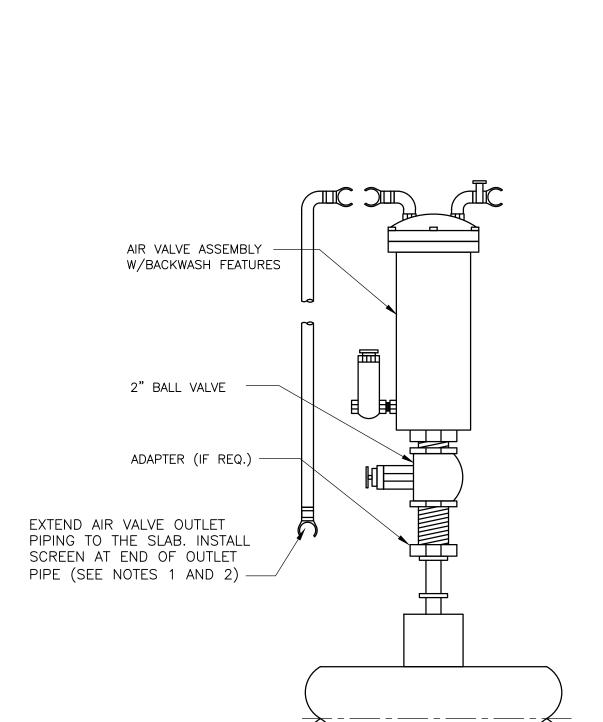
NO. 83413 STATE OF S COR LOP THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ISAAC D. HOLOWELL ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED DATE: SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ISAAC D. HOLOWELL ON ANY ELECTRONIC COPIES.

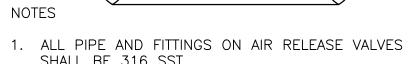
PE NO. 83413

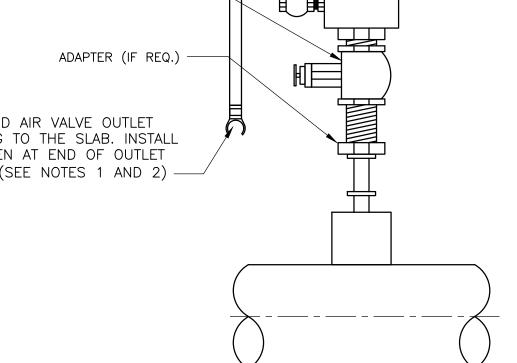
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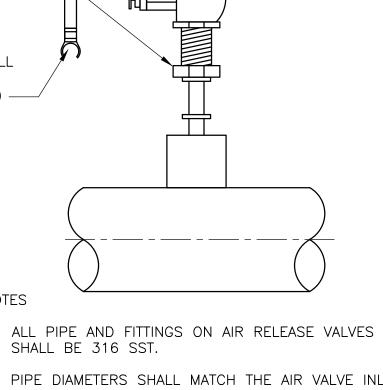
MD-1

ISSUED FOR BID









SEE DETAIL A FOR WELLHEAD TOP FLANGE WELD ALL AROUND SIDES OF FLANGE (TYP) — SAFETY CABLE EYEBOLT (TYP) -SHC 40 316 SST 12" FRP ADAPTER FLG x SOCKET WELD -(2) NUTS PER J-BOLT (MATCH FLG BOLT DIA) → (TYP OF 4) 6" SST PIPE (MALE THD NPT x PLAIN END) 6" SST PIPE COUPLING (FEMALE THD NPT xFEMALE THD NPT) — - 12" FRP WELL CASING 6" SST CERTA-LOK DROP PIPE ADAPTER (CERTA-LOK - POWER CABLE MALE x MALE THD NPT) ----CERTA-LOK DROP PIPE COUPLING -

3/4" = 1'-0"

6" WELD NECK FLANGE-316 SST -

DROP PIPE -

12" TOP FLANGE-316 SST 12" BOTTOM FLANGE-316 SST 6" COLUMN PIPE-316 SST 12" FLANGED SPOOL PIECE - STAINLESS STEEL J-BOLTS W/ 6" PVC CERTA-LOK

SEE DETAIL C WELL SECTION FOR CONTINUATION WELLHEAD **DETAIL**

30" DIA BOREHOLE — 22" SURFACE CASING STEEL ASTM A53, GRADE B 3/8" DIA PUMP SAFETY CABLE-316 SST -6" SST CERTA-LOK DROP PIPE ADAPTER (CERTA-LOK

SPECIFICATION SECTION 432520) MALE x MALE THD NPT) -6" SST PIPE (MALE THD NPT x MALE THD NPT) — SST PUMP STAGES -SST INTAKE SCREEN

6" SST PIPE (MALE

THD NPT x PLAIN END) -

- 60 FT± BLS BOTTOM OF 12" DIA FRP WELL CASING (SEE NOTE 1)

> 80 FT± BLS BOTTOM OF 12" DIA OPEN BOREHOLE (SEE NOTE 1)

\H/

6" SST PIPE COUPLING

(FEMALE THD NPT x

FEMALE THD NPT)

6" SST CERTA-LOK

CERTA-LOK DROP

CERTA-LOK DROP

PIPE COUPLING

55 FT± BLS

BOTTOM OF PUMP INTAKE SCREEN

6" CHECK VALVE (REFER TO

PIPE COUPLING

- 6" PVC CERTA-LOK DROP PIPE

WITH CERTA-LOK PIPE COUPLINGS

DROP PIPE ADAPTER

MALE x MALE THD NPT)

- POWER CABLE

(CERTA-LOK

DETAIL

WELL SECTION

NOTES:

1. WELL CONSTRUCTION SHOWN FOR REFERENCE ONLY. REFER TO SUPPLEMENTARY SPECIFICATIONS FOR FIGURE 2 SHOWING CONSTRUCTION DETAILS FOR THE NEW PRODUCTION WELLS.

SHEET NO.

| | ONE LINE OR CONTROL DIAGRAM | PLAN | DESCRIPTION | ONE LINE OR CONTROL DIAGRAM | PLAN | DESCRIPTION | ONE LINE OR CONTROL DIAGRAM | PLAN | DESCRIPTION | SYMBOL | DESCRIPTION | 5.5. | ABBREVIATIONS (CONTINUED) | |
|-----------------------------------|--------------------------------|------------------------------------|---|--------------------------------|---------------------------------|--|--|---|---|----------------------|---|--|---|-------------|
| SMITH. | FRAME | | LOW VOLTAGE AIR OR MOLDED CASE | | | CONTROL RELAY COIL, NUMBER AS INDICATED | | • | GROUND OR GROUND ROD | (3) 4°C. | THREE 4-INCH CONDUITS | EM EQUIP | ELEVATION EMERGENCY EQUIPMENT | |
| OF CDM | FRAME TRIP | СВ | CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED. NON-FUSIBLE DISCONNECT SWITCH. | ~ | | PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN | 30A | | FUSE, AMPERE RATING AS NOTED | | FLEXIBLE METAL CONDUIT "WHIP" (3/4"C., 2#12, 1#12G UNLESS OTHERWISE NOTED) FOR LIQUID TIGHT MOTOR CONNECTIONS | EWC EWH EX | ELECTRIC WATER COOLER ELECTRIC WATER HEATER EXISTING FIBER OPTIC | |
| ORIZATION | /* | 마 | # AMPERE RATING NOTED IF OTHER THAN 30A (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE) | * | | B — BLUE W — WHITE A — AMBER TIME DELAY RELAY | │ │ │ | | CONTACT, NORMALLY OPEN (NO) | | DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W * GFCI — GROUND FAULT CIRCUIT INTERRUPTER TYPE WP — WEATHERPROOF XP — EXPLOSION PROOF T — TRANSIENT VOLTAGE SURGE SUPPRESSOR IC — ISOLATED GROUND | FPL GCP GEN G, GND | FLORIDA POWER AND LIGHT GENERATOR CONTROL PANEL GENERATOR GROUND | |
| TTEN AUTE | ! */ | [F] | FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE, * AMPERE RATING AND FUSE SIZE AS NOTED * AMPERE RATING NOTED IF OTHER THAN 30A | ** RANGE SETPOINT | | RANGE AS NOTED SETPOINT AS NOTED # NUMBER AS INDICATED ** TDE - TIME DELAY AFTER ENERGIZATION ON DELAY | | | CONTACT, NORMALLY CLOSED (NC) | * | DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W MOUNTED ABOVE COUNTER—TOP OR 42" AFF * NOTATIONS SAME AS ABOVE | GFI GRS HACR | GROUND FAULT INTERRUPTER GALVANIZED RIGID STEEL HEATING & AIR CONDITIONING R HANDHOLE | :ATED |
| THE WRI | *‡ | | FUSE RATING (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE) | * - | | TDD — TIME DELAY AFTER DE—ENERGIZATION OFF DELAY NOTC — NORMALLY OPEN, TIMED CLOSING WHEN | | | OVERLOAD RELAY HEATER | J OR J | JUNCTION BOX | HID HP | HANDHOLE HIGH INTENSITY DISCHARGE HORSEPOWER HERTZ | |
| WITHOUT | -\~ | Z ^P ₂ | MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER, 1 POLE UNLESS OTHERWISE NOTED "P" INDICATES WITH PILOT LIGHT "2" INDICATES TWO POLE | NOTC NOTC | | NCTO – NORMALLY CLOSED, TIMED OPENING WHEN ENERGIZED | | | * K = KEY INTERLOCK E = ELECTRICAL INTERLOCK | //// | INDICATED EQUIPMENT AND MATERIALS TO BE DEMOLISHED GROUND SYSTEM GRID OR LOOP, 36" BELOW FINISHED GRADE UNLESS | ID INSTR | IDENTIFICATION INSTRUMENT KILO (PREFIX) | |
| ROJECT V | VEUD NO. 4 | | (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE) | — NOTO | | NOTO - NORMALLY OPEN, TIMED OPENING WHEN DE-ENERGIZED NCTC - NORMALLY CLOSED, TIMED CLOSING | ТВ | · | TERMINAL OR TEST BLOCK | | OTHERWISE NOTED. EXOTHERMIC WELD CONNECTION | kcmil KVA KW | 1000 CIRCULAR MILS KILOVOLT AMPERES KILOWATTS | |
| T I | XFMR NO. 1 480V KVA | Т | TRANSFORMER, RATINGS AND CONNECTIONS AS NOTED. UNLESS OTHERWISE NOTED ON THE SINGLE LINE DIAGRAMS, ALL DRY TYPE TRANSFORMERS SERVICING ADMINISTRATIVE AND | NCTC | *- ##) | WHEN DE-ENERGIZED FIELD INSTRUMENT, TAG NO. AS INDICATED | ETM | | ELAPSED TIME METER | • | 3/4" x 10'-0" GROUND ROD. UNLESS SPECIFIED OTHERWISE. | LA LTG LP | LIGHTNING ARRESTER LIGHTING LIGHTING PANEL | |
| DR ANY (| 120/208V 3P, 4W | | LABORATORY SPACES SHALL HAVE A K FACTOR OF 4. ISOLATION TRANSFORMERS SHALL HAVE A K-20 RATING | | | * INDICATES INSTRUMENT TYPE DEFINED ON LOOP SHEETS OR P & ID ## INDICATES LOOP NO. | M | | MOTOR OPERATED VALVE OR GATE | | GROUND ROD TEST WELL STATION (SEE DETAIL SHEET FOR REQUIREMENTS) | LV MAX MCB | LOW VOLTAGE MAXIMUM MAIN CIRCUIT BREAKER | |
| PART, FC | * # TO 5 | | CURRENT TRANSFORMER * QUANTITY A = PRIMARY AMPERES | | LS OR | LIQUID LEVEL (FLOAT) SWITCH NORMALLY OPEN, CLOSES ON RISING LEVEL | | | INDICATES LIMITS OF ELECTRICAL EQUIPMENT OR WIRING ENCLOSURE | _ | SECURITY SYSTEMS CLOSED CIRCUIT TV CAMERA | MCC MCP MFR | MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR MANUFACTURER | |
| OLE OR | * 3V TO 120 | | POTENTIAL TRANSFORMER * QUANTITY V = PRIMARY VOLTAGE | -ofo- | | NORMALLY CLOSED, OPENS ON RISING LEVEL | | | WIRING ENCLOSURE | | | MH MIN MLO | MANHOLE MINIMUM MAIN LUGS ONLY MOTOR OPERATED VALVE | |
| N WH | \bigcirc | G | GENERATOR, RATINGS AND CONNECTIONS AS NOTED | | PS OR | PRESSURE OR VACUUM SWITCH NORMALLY OPEN, CLOSES ON RISING PRESSURE | SYMBOL | | DESCRIPTION | | EXISTING WORK FUTURE EXPANSION | MPZ MTD | MOTOR OPERATED VALVE MINI POWER ZONE MOUNTED MANUAL TRANSFER SWITCH | |
| BE USEL | ATS | | AUTOMATIC OR MANUAL TRANSFER SWITCH NO.1 | -010- | | NORMALLY OPEN, CLOSES ON DROPPING PRESSURE | A > 3 | | PE (SEE LIGHTING FIXTURE SCHEDULE) | EXIST | ING, NEW OR FUTURE CONDITION DESIGNATION | MV N NC | MEDIUM VOLTAGE NEUTRAL NORMALLY CLOSED | |
| OT TON | N •\ s | | (ATS-1), (MTS-1) "N" INDICATES NORMAL OR PREFERRED SOURCE "S" INDICATES STANDBY OR ALTERNATE SOURCE 100A INDICATES CONTINUOUS CURRENT RATING | -070- | | NORMALLY CLOSED, OPENS ON RISING PRESSURE NORMALLY CLOSED, OPENS ON DROPPING | ↓ ↓ ↓ ↓ ↓ ↓ ↓ | "b" — CONTROLLE "3" — CIRCUIT NU | | A E- | SHEET NO. WHERE DETAIL IS DRAWN SHEET NO. WHERE SECTIO | NO NTS OH | NORMALLY OPEN OR NUMBER NOT TO SCALE OVERHEAD | |
| ND ARE | 100A | | VARIABLE SPEED DRIVE CONTROLLER | | TS OR T OR | PRESSURE TEMPERATURE SWITCH OR THERMOSTAT | A B | LIGHTING FIXTURE, | NOTATIONS SAME AS ABOVE | _ | RE THERE IS A DETAIL SYMBOL WHERE THERE IS A SECTION | OL PB PCP | OVERLOAD PULL BOX PUMP CONTROL PANEL | |
| SMITH A | * | * | * D.C. = D.C. DRIVE CONTROLLER SCR = SILICON CONTROLLED RECTIFIER VFD = VARIABLE FREQUENCY DRIVE | | | NORMALLY OPEN, CLOSES ON RISING TEMPERATURE NORMALLY OPEN, CLOSES ON DROPPING | A A A A A A A A A A A A A A A A A A A | WALL MOUNTED TY | PE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE | DETAIL 1/4" = 1'-0" | SHEET NO. SECTION 1 | PH PMH PNL | PHASE POWER MANHOLE PANEL OR PANELBOARD | |
| OF CDM | 5 | M | MOTOR, NUMERAL INDICATES HORSEPOWER | | | TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE | $A \longrightarrow A \longrightarrow A$ OR $A \longrightarrow A$ | SHADED AREA INDI EMERGENCY BACKU | CATES LIGHTING FIXTURE THAT IS EQUIPPED WITH POWER SOURCE. NOTATIONS SAME AS ABOVE. | | WHERE THERE IS A DETAIL 1/4" = 1'-0" E-3 SHEET NO. WHERE SECTION IS TAKEN SYMBOL WHERE SECTION IS DRAWN | PP PR PRI | POWER PANEL PAIR PRIMARY POTENTIAL TRANSFORMER | |
| ROPERTY | مله | | PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY CLOSED | <u> </u> | | NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE | A 3 | POLE MOUNTED AR | EA TYPE LIGHTING FIXTURE, NOTATIONS SAME AS | DETAIL S | SYMBOL SECTION SYMBOL | PVC RECPT REOD | POLYVINYL CHLORIDE RECEPTACLE REQUIRED | |
| THE PF | 0 0 | | PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY OPEN | | FS OR | FLOW SWITCH (AIR, WATER, ETC.) NORMALLY OPEN, CLOSES ON INCREASED FLOW | EM 3 | "EM" - FIXTURE TY | NG BATTERY UNIT WITH TWO LAMP HEADS 'PE (SEE LIGHTING FIXTURE SCHEDULE) | 1 | ABBREVIATIONS A AMPS | QTY SA SEC | QUANTITY SURGE ARRESTER SECONDS OR SECONDARY | |
| ZEIN, ARE | ച്ച | ES | EMERGENCY STOP PUSHBUTTON WITH RED MUSHROOM HEAD OPERATOR (MAINTAINED CONTACT) | -0-60- | | NORMALLY CLOSED, OPENS ON INCREASED FLOW | | "3" — SUPERVISO * — FIXTURE TA | | <u> </u> | AC ALTERNATING CURRENT AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE | SH SHH SPD | SHIELDED OR SPACE HEATER SIGNAL HANDHOLE SURGE PROTECTIVE DEVICE | |
| ATED HEF | STOP START | PBL | START-STOP PUSHBUTTON CONTROL STATION (MOMENTARY CONTACT) WITH LOCKOUT DEVICE ON STOP | | ZS OR ■ | POSITION (LIMIT) SWITCH NORMALLY OPEN | | REPRESENTS FACE | DIRECTION OF EGRESS. FILLED QUADRANT SIDE OF SIGN. SIGNATED EQUIPMENT. BRANCH CIRCUIT CONDUIT | _ | AL ALUMINUM AIC AMPERE INTERRUPTING CAPACITY AMP AMPERE ATS AUTOMATIC TRANSFER SWITCH | SS SV SW | STAINLESS STEEL SOLENOID VALVE SWITCH | |
| UCORPOR, | ا رواه | РВМ | START-STOP PUSHBUTTON CONTROL STATION, MAINTAINED CONTACT WITH LOCKOUT DEVICE ON | -070- | | NORMALLY OPEN — HELD CLOSED | | WITH 2 NO. 12 AW AWG GROUND CON ARROWS INDICATE | /G BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 DUCTOR UNLESS OTHERWISE NOTED. NUMBER OF NUMBER OF CIRCUITS. FOR MINIMUM SIZE CONDUIT TO THE SPECIFICATIONS. | | AUTO AUTOMATIC AUX AUXILIARY AWG AMERICAN WIRE GAUGE | SWBD SWGR TC | SWITCHBOARD SWITCHGEAR TIME TO CLOSE OR TRAY CABLE | Ξ |
| LG.dwg RVICE, IN | OFF ON | | 3101 | -040- | | NORMALLY CLOSED — HELD OPEN | | | ED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING. | | BKR BREAKER BLDG BUILDING C CONDUIT | TO TS | TELEPHONE TIME TO OPEN TWISTED SHIELDED OR THERMAL SWITCH | |
| VEOO1NF | <u>~~</u> | S/S | OFF/ON SELECTOR SWITCH | | WS OR ■ | TORQUE SWITCH | /\ | | OSED. RUN PARALLEL OR PERPENDICULAR TO | _ | CB CIRCUIT BREAKER CGD COMBUSTIBLE GAS DETECTOR CKT CIRCUIT | TYP UG UPS | TYPICAL UNDERGROUND UNINTERRUPTIBLE POWER SUPPL | LY |
| LLS\DWG | (XO) | LR | LOCAL/REMOTE SELECTOR SWITCH | -018- | | NORMALLY OPEN, CLOSES ON HIGH TORQUE NORMALLY CLOSED, OPENS ON HIGH TORQUE | /*-\ | STRUCTURE OR WA | | - | CLB CURRENT LIMITING BREAKER CLF CURRENT LIMITING FUSE CP CONTROL PANEL | V VA VFD | VOLTS VOLT AMPS VARIABLE FREQUENCY DRIVE | |
| FD BY F | — | | 3 POSITION SELECTOR SWITCH, MAINTAINED | | | UTILIZED IN CONJUNCTION WITH OTHER CONTROL SCHEMATIC SYMBOLS TO DEPICT THE PHYSICAL | | | D DUCTBANK. WIDTH VARIES, SEE DUCTBANK OR REQUIREMENTS AND WIDTH | | CPT CONTROL POWER TRANSFORMER CR CONTROL RELAY CS CONTROL SWITCH/CONTROL STATION | W WP XP XFMR | WATTS, WIDTH, WITH, WIRE WEATHERPROOF EXPLOSION PROOF TRANSFORMER | |
| S PROVID | A B out | | CONTACT O-OPEN X-CLOSED TOP MIDDLE BOTTOM CONTACT CONTACT | [#] | | LOCATION OF THE DEVICE # REPRESENTS LOCATION SEE LOCATION LEGEND ON DRAWING | | CONDUIT STUBBED | | _ | CT CURRENT TRANSFORMER CU COPPER CWS CONDUIT WALL SEAL DC DIRECT CURRENT | AFMK | TRANSFORMER | |
| | A B C* (X00) | * | A X 0 0 0 B 0 X 0 | + + | | CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED | (2) 3"C., 3#3/0, 1#2G | | TY OF TWO (2) 3-INCH CONDUITS EACH NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG DR. | | DIA DIAMETER DMU DIGITAL METERING UNIT DN DOWN | THIS ITEM DIGITALLY S SEALED BY SPENCER J | SIGNED AND | 60000 10 1 |
| ω ₹ | - o o o (OOX) | | NAMEPLATE (A/B/C) HOA — HAND/OFF/AUTO | | | CONDUCTORS ELECTRICALLY CONNECTED | 2-2/C#16 SH | CONSIST OF TWO N | TY OF TWO INSTRUMENT CABLES. EACH CABLE TO NO. 16 AWG CONDUCTORS TWISTED TOGETHER AND METALLIC SHIELD AND AN OVERALL PROTECTIVE THE SPECIFICATIONS FOR THE EXACT CABLE TO | | EC EMPTY CONDUIT ELEC ELECTRICAL | | ATE ADJACENT AL STATE OF | ★ |
| SM SMITESERVED DOCUME | | | HOR — HAND/OFF/REMOTE LOR — LOCAL/OFF/REMOTE RSL — RAISE/STOP/LOWER TOA — TEST/OFF/AUTO | o√∘ | <u></u> | SOLENOID VALVE | | BE PROVIDED. SAME AS ABOVE E | XCEPT CABLE TO CONSIST OF THREE NO. 16 AWG | 1 | | THIS DOCU NOT CONSI SIGNED AN | MENT ARE DERED D SEALED | WHIHIIIIIII |
| Nrive — C | | | TOA - TEST/OFF/AUTO | | | 1 | 2-3/C#16 SH | PROTECTIVE JACKET CABLE TO BE PRO | TED, SHIELDED AND COVERED WITH AN OVERALL T. REFER TO THE SPECIFICATIONS FOR THE EXACT VIDED. | | | AND THE S MUST BE V ANY ELECT COPIES. | DATE: SPENCER J. PE PE NO. 62587 | |
| TH ALL F UMENTS: | | | | DESIG | | CARTER CDM | | | COLLIER COUNTY, FLORIDA | | | | PE NO. 62587 PROJECT NO. 62 FILE NAME: E001 | 295–267 |
| CDM SMI | | | | SHEET | CHK'D BY: A. F S CHK'D BY: S | Smith PERRY 9160 FORUM CORPORATE PARKWAY, Suite 230 | | | FOXFIRE WELLS | | ELECTRICAL LEGEND | | SHEET NO | |
| C:\Use @ 2024 REUSE \Jaa | O. DATE DRWN CH | IKD | REMARKS | APPRODATE: | · · · LD D1. | PERRY Fort Myers, FL 33905 Y 2024 FL COA No. EB-0000020 | | | | | | | ISSUED I | 505 |

SCOPE OF WORK:

 \overline{A}

- 1. PROVIDE ELECTRICAL SERVICE FOR TWO NEW WELLS AT THE FOXFIRE GROUND STORAGE TANK (GST) SITE.
- 2. PROVIDE ELECTRICAL SERVICE FOR ONE NEW WELL AT THE DAVIS BLVD. SITE, AS SHOWN ON THE DRAWINGS,
- 3. PROVIDE POWER SYSTEM STUDIES IN ACCORDANCE WITH SPECIFICATION 260573.

GENERAL NOTES:

- 1. ELECTRICAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL LAYOUT OF WORK TO BE INSTALLED UNDER THIS CONTRACT WITHOUT ATTEMPTING TO SHOW ALL DETAILS. FURNISH LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE CONTRACT DOCUMENTS.
- 2. COORDINATE WORK WITH OTHER TRADES AND THE OWNER.
- 3. MAINTAIN EXISTING PROCESS OPERATIONS. POWER INTERRUPTIONS TO ELECTRICAL EQUIPMENT SHALL BE AT OWNER'S CONVENIENCE WITH 72 HOURS MINIMUM NOTICE. EACH INTERRUPTION SHALL HAVE PRIOR WRITTEN APPROVAL
- 4. FIELD VERIFY EXISTING UNDERGROUND ELECTRICAL CONDUIT, CONCRETE DUCT BANKS, MANHOLES, PULL BOXES, ETC. AND MECHANICAL PIPING. CONTRACTOR SHALL INCLUDE IN BID COSTS ASSOCIATED WITH RELOCATION OR REMOVAL OF UNDERGROUND EQUIPMENT AS REQUIRED BY THIS CONTRACT. USE DUE CARE IN CONGESTED AREAS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES.
- 5. CONTRACTOR'S WORK SHALL INCLUDE COMPLETE TESTING OF EQUIPMENT AND WIRING INCLUDING MAKING MINOR CORRECTIONS. CHANGES, OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY; SUBSTANDARD WORK WILL BE REJECTED.
- 6. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO MECHANICAL, STRUCTURAL DRAWINGS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. EXCEPT WHERE DIMENSIONS ARE SHOWN, LOCATIONS OF EQUIPMENT, FIXTURES, OUTLETS, AND SIMILAR DEVICES ARE APPROXIMATE.
- 7. WORK SHALL COMPLY WITH NEC AND LOCAL CODES.
- 8. DO NOT SPLICE CONDUCTORS EXCEPT AS NOTED.
- 9. POWER AND CONTROL CONDUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR WIRE SIZED PER TABLE 250.122 OF THE NEC (UON).
- 10. COORDINATE SEQUENCE OF CONSTRUCTION WITH CIVIL, MECHANICAL, AND STRUCTURAL DISCIPLINES. PROVIDE TEMPORARY POWER AND CONTROL CIRCUITS AS REQUIRED TO MAINTAIN FACILITY OPERATION. VERIFY EXISTING UTILITIES IN AREA OF CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL UNDERGROUND INFORMATION.
- 11. REPAIR, IN ACCORDANCE WITH SPECIFICATIONS, SIDEWALKS, WALLS, ROADWAYS, ETC. DISTURBED BY CONSTRUCTION ACTIVITIES WHETHER OR NOT SHOWN FOR REPAIR/REPAVING ON CIVIL DRAWINGS.
- 12. CONCEAL CONDUITS TO GREATEST EXTENT PRACTICABLE. CONDUITS RUN AT EXISTING STRUCTURES SHALL BE RUN EXPOSED.
- 13. WHERE LOCAL DISCONNECTS AND CONTROL PANELS ARE SHOWN ON PLAN VIEWS, LOCATIONS ARE APPROXIMATE. ADJUST LOCATION AS REQUIRED TO COMPLY WITH NEC ARTICLE 110 FOR WORKING CLEARANCES.
- 14. DO NOT INSTALL MAJOR CONDUIT RUNS THROUGH AREAS DESIGNATED FOR FUTURE STRUCTURES.
- 15. IN GENERAL CONDUIT ROUTING FOR EQUIPMENT AND DEVICES IS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS WHICH SHALL INCLUDE CONDUITS SHOWN ON ONE-LINE AND RISER DIAGRAMS AND HOME-RUNS SHOWN ON PLAN DRAWINGS. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
- 16. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUITS REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.
- 17. INTERPRETATION OF ELECTRICAL DRAWINGS: CIRCUIT IDENTIFICATION, ROUTING, AND SIZES OF CONDUITS AND WIRES ARE SHOWN ON THE FOLLOWING DRAWINGS:
- A. ONE LINE POWER DIAGRAMS: POWER, CONTROL AND SIGNAL WIRING REQUIREMENTS FOR ELECTRICAL DISTRIBUTION EQUIPMENT AND UTILIZATION EQUIPMENT POWERED FROM SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND MAJOR POWER DISTRIBUTION PANELBOARDS ARE TYPICALLY SHOWN ON THE ONE LINE DIAGRAMS. THE PARAMETERS IDENTIFIED ON THE ONE LINE DIAGRAMS ARE: CIRCUIT IDENTIFICATION, CIRCUIT ORIGIN AND DESTINATION, CONDUIT SIZE, WIRE SIZE AND QUANTITY FOR COMPLETE CIRCUIT LENGTH, AND AUXILIARY DEVICES ASSOCIATED WITH THE CONTROL/PROTECTION OF THE POWERED EQUIPMENT, AND SIZE OF THE GROUNDING ELECTRODE CONDUCTORS
- B. INSTRUMENTATION AND CONTROL RISER DIAGRAMS: POWER, CONTROL, SIGNAL AND DATA HIGHWAY WIRING REQUIREMENTS FOR INSTRUMENTS AND CONTROL DEVICES CONTROLLED/MONITORED FROM INSTRUMENTATION AND CONTROL PANELS SUCH AS RTUS, PLCS, TERMINAL CABINETS, AND REMOTE I/O PANELS ARE TYPICALLY SHOWN ON THE INSTRUMENTATION AND CONTROL ONE LINE DIAGRAMS. THE PARAMETERS IDENTIFIED ON THE ONE LINE DIAGRAMS ARE: CIRCUIT IDENTIFICATION, CIRCUIT ORIGIN AND DESTINATION, CONDUIT SIZE, WIRE SIZE, QUANTITY AND TYPE FOR COMPLETE CIRCUIT LENGTH, AND AUXILIARY DEVICES ASSOCIATED WITH THE CONTROL/PROTECTION OF THE POWERED EQUIPMENT.
- C. FLOOR PLANS: FOR DETERMINING THE LENGTH OF CIRCUITS LOCATED WITHIN STRUCTURES, FLOOR PLANS SHOW THE LOCATION OF ELECTRICAL DISTRIBUTION EQUIPMENT, CONTROL PANELS, UTILIZATION EQUIPMENT, INSTRUMENTS, ANCILLARY EQUIPMENT AND DEVICES AND THE ANTICIPATED PENETRATION LOCATIONS WHERE CONDUITS EXIT/ENTER THE STRUCTURE. HOMERUNS MAY ALSO BE SHOWN FROM MISCELLANEOUS EQUIPMENT NOT SHOWN ON A ONE LINE OR RISER DIAGRAM.
- D. SITE PLANS: FOR DETERMINING THE LENGTH OF CIRCUITS EXTERIOR TO STRUCTURES AND TO IDENTIFY THE SPECIFIC REQUIREMENTS OF THE UNDERGROUND CONDUITS OR DUCT BANKS, SITE PLANS SHOW THE GENERAL ROUTING OF UNDERGROUND CONDUITS AND DUCT BANKS WITH SECTIONS INDICATING THE CONDUIT SIZE, ARRANGEMENT AND CIRCUIT ROUTING.

SUBMITTALS:

- 1. SUBMIT SHOP DRAWINGS FOR EQUIPMENT, MATERIALS AND OTHER ITEMS FURNISHED UNDER DIVISION 26.
- 2. SUBMIT CONDUIT SHOP DRAWINGS FOR YARD ELECTRICAL, WITHIN AND UNDER ROADS, BUILDINGS AND STRUCTURES PRIOR TO COMMENCING WORK. DO NOT POUR CONCRETE UNTIL ENGINEER HAS APPROVED THE ASSOCIATED SHOP
- 3. SUBMIT POWER SYSTEM STUDY IN ACCORDANCE WITH SECTION 26 05 73.
- 4. SUBMIT OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- 5. SUBMIT STARTUP/COMMISSIONING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- 6. SUBMIT TESTING AND SERVICE REPORTS FOR EQUIPMENT AND MATERIALS FURNISHED UNDER DIVISION 26.
- 7. SUBMIT TRAINING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- 8. SUBMIT RECORD DOCUMENTATION TO ACCURATELY SHOW COMPLETED INSTALLATION. INCLUDE MODIFICATIONS TO CONTRACT DOCUMENTS (ONE LINE POWER DIAGRAMS, EQUIPMENT ELEVATIONS, PANEL SCHEDULES, ELEMENTARY CONTROL DIAGRAMS, RISER DIAGRAMS, PLANS, CONDUIT AND DUCTBANK ROUTING, ETC) ALONG WITH ADDITIONAL DRAWINGS OR SKETCHES CREATED TO CONVEY COMPLETED INSTALLATION.

INTERPRETATION OF CONTRACT DOCUMENTS:

- 1. IF DURING PERFORMANCE OF WORK, THERE IS A CONFLICT, ERROR, OR DISCREPANCY BETWEEN OR AMONG CONTRACT DOCUMENTS AND LAWS AND REGULATIONS, PROVIDE THE HIGHER PERFORMANCE STANDARD UNLESS OTHERWISE DIRECTED BY
- 2. PRIORITY OF DOCUMENTS: FIGURED DIMENSIONS GOVERN OVER SCALED DIMENSIONS, DETAILED DRAWINGS GOVERN OVER GENERAL DRAWINGS, LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, CHANGE ORDER DRAWINGS SUPERCEDE ORIGINAL CONTRACT DRAWINGS, AND CONTRACT DRAWINGS GOVERN SHOP DRAWINGS.
- 3. IN GENERAL, DRAWINGS DO NOT SHOW CONDUIT ROUTING. PLAN AND ROUTE CONDUITS IN COMPLIANCE WITH SPECIFICATIONS AND DRAWING DETAILS. COORDINATE INSTALLATION WITH OTHER TRADES AND ACTUAL SUPPLIED EQUIPMENT.
- 4. DUCTBANK ROUTING SHOWN ON ELECTRICAL SITE PLANS IS DIAGRAMMATIC IN NATURE AND MAY NOT INCLUDE INTERFERENCES THAT MAY BE PRESENT.
- 5. SEE ADDITIONAL NOTES ON ELECTRICAL LEGEND SHEET.

ENCLOSURE TYPES:

- PROVIDE THE FOLLOWING NEMA TYPE ELECTRICAL ENCLOSURES, UNLESS OTHERWISE NOTED:
- 1. NEMA 1 IN DRY, NON-PROCESS INDOOR LOCATIONS.
- 2. NEMA 12 IN "DUST" LOCATIONS SHOWN ON THE DRAWINGS.
- 3. NEMA 4X IN OUTDOOR LOCATIONS, ROOMS BELOW GRADE INCLUDING BASEMENTS AND BURIED VAULTS AND "DAMP" OR "WET" LOCATIONS SHOWN ON THE DRAWINGS.
- 4. NEMA 4X IN "CORROSIVE" LOCATIONS SHOWN ON THE DRAWINGS.

MATERIALS AND EQUIPMENT:

- 1. PROVIDE NEW MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE.
- 2. ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC., AND SHALL BEAR APPROPRIATE UL LISTING MARK OR CLASSIFICATION MARKING. EQUIPMENT, MATERIALS, ETC. UTILIZED NOT BEARING A UL CERTIFICATION SHALL BE FIELD OR FACTORY UL CERTIFIED PRIOR TO EQUIPMENT ACCEPTANCE AND USE.
- 3. PROVIDE MAJOR ELECTRICAL EQUIPMENT BY A SINGLE MANUFACTURER: I.E. UNIT SUBSTATIONS, SWITCHGEAR, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, TRANSFORMERS, PANELBOARDS, ETC.

EQUIPMENT SIZE, HANDLING AND STORAGE:

- 1. COORDINATE WITH EQUIPMENT MANUFACTURER SHIPPING SPLITS TO PERMIT SAFE HANDLING AND PASSAGE OF EQUIPMENT TO FINAL INSTALLATION LOCATION.
- 2. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR UPRIGHT EQUIPMENT ORIENTATION DURING TRANSPORTATION.
- 3. PROTECT EQUIPMENT FROM MECHANICAL INJURY, OR EXPOSURE TO MOISTURE, CHEMICALS, OR CORROSIVE GASES. DO NOT STORE ELECTRICAL EQUIPMENT OUTDOORS.
- 4. PROVIDE AND ENERGIZE TEMPORARY SPACE HEATERS IF REQUIRED TO CONTROL MOISTURE DURING STORAGE.

CUTTING AND PATCHING:

- 1. CUT AND PATCH IN A WORKMANLIKE MANNER AS REQUIRED TO INSTALL ELECTRICAL WORK.
- 2. CUTTING OF STRUCTURAL MEMBERS SUCH AS JOISTS, BEAMS, GIRDERS OR COLUMNS IS PROHIBITED.
- 3. PATCH SURFACES TO RESTORE TO ORIGINAL INTEGRITY (WATERPROOF OR FIREPROOF AS REQUIRED) AND APPEARANCE.

SERVICE AND METERING:

- 1. ELECTRIC POWER COMPANY SERVING THIS PROJECT IS FLORIDA POWER & LIGHT. POWER COMPANY CONTACT IS TRACY MACFARLANE, TELEPHONE 239-353-6030, EMAIL TRACY.MACFARLANE@FPL.COM. COMPLY WITH POWER COMPANY STANDARDS.
- 2. PAY FOR FEES AND CHARGES AS REQUIRED FOR TEMPORARY/CONSTRUCTION POWER FOR CONTRACTOR'S USE.
- 3. PAY FEES AND CHARGES FOR PERMANENT SERVICE VIA BID ALLOWANCE AND SUBMIT POWER COMPANY INVOICES TO OWNER FOR SUBSTANTIATION.
- 4. POWER COMPANY WORK:
- PROVIDE PRIMARY SERVICE (OVERHEAD AND UNDERGROUND) TO UTILITY TRANSFORMER(S) • PROVIDE UTILITY TRANSFORMER PAD AND GROUNDING FOR PAD MOUNTED UTILITY TRANSFORMER.
- PROVIDE UTILITY POLE AND GROUNDING FOR POLE MOUNTED UTILITY TRANSFORMER.
- PROVIDE UTILITY TRANSFORMER(S).
- TERMINATE UNDERGROUND PRIMARY CABLES AT THE UTILITY TRANSFORMER(S). TERMINATE UNDERGROUND SECONDARY CABLES AT THE UTILITY TRANSFORMER(S).
- PROVIDE METERING CURRENT TRANSFORMERS (CT'S), METER(S) AND METER WIRING.
- CONTRACTOR WORK:
- ARRANGEMENTS WITH POWER COMPANY TO OBTAIN SERVICE, PAY POWER COMPANY FEES, AND PROVIDE LABOR AND MATERIALS REQUIRED FOR ELECTRICAL SERVICE.

PROVIDE EMPTY CONDUIT WITH PULL LINE FROM THE METERING CT ENCLOSURE TO THE METER BASE ENCLOSURE.

- PROVIDE SECONDARY UNDERGROUND CONDUITS AND CABLE FROM UTILITY TRANSFORMER(S) TO SERVICE ENTRANCE EQUIPMENT.
- PROVIDE POWER COMPANY APPROVED METERING CURRENT TRANSFORMER (CT) ENCLOSURE. INSTALL METER BASE ENCLOSURE.

CLEANING:

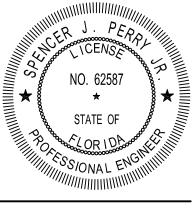
- 1. REMOVE ALL RUBBISH AND DEBRIS FROM INSIDE AND AROUND ELECTRICAL EQUIPMENT AND ENCLOSURES.
- 2. REMOVE DIRT, DUST OR CONCRETE SPATTER FROM INTERIOR AND EXTERIOR OF EQUIPMENT USING BRUSHES, VACUUM CLEANER OR CLEAN LINT-FREE RAGS. DO NOT USE COMPRESSED AIR.

DELEGATED DESIGN / PROFESSIONAL ENGINEERING SERVICES:

- . WHEN ENGINEERING SERVICES ARE SPECIFIED TO BE PROVIDED BY CONTRACTOR, CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PERFORM THE SERVICES. ENGINEER SHALL BE LICENSED AT THE TIME SERVICES ARE PERFORMED AND LICENSED IN THE STATE IN WHICH PROJECT IS LOCATED. IF THE STATE ISSUES DISCIPLINE SPECIFIC LICENSES, ENGINEER SHALL BE LICENSED IN THE APPLICABLE DISCIPLINE. ENGINEER SHALL BE EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED.
- 2. ENGINEERING WORK SHALL BE DONE ACCORDING TO THE APPLICABLE REGULATIONS FOR PROFESSIONAL ENGINEERS TO INCLUDE SIGNING, SEALING AND DATING DOCUMENTS.

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SPENCER J. PERRY JR PE NO. 62587

PROJECT NO. 6295-26730 FILE NAME: E002NFLG.DW

SHEET NO.

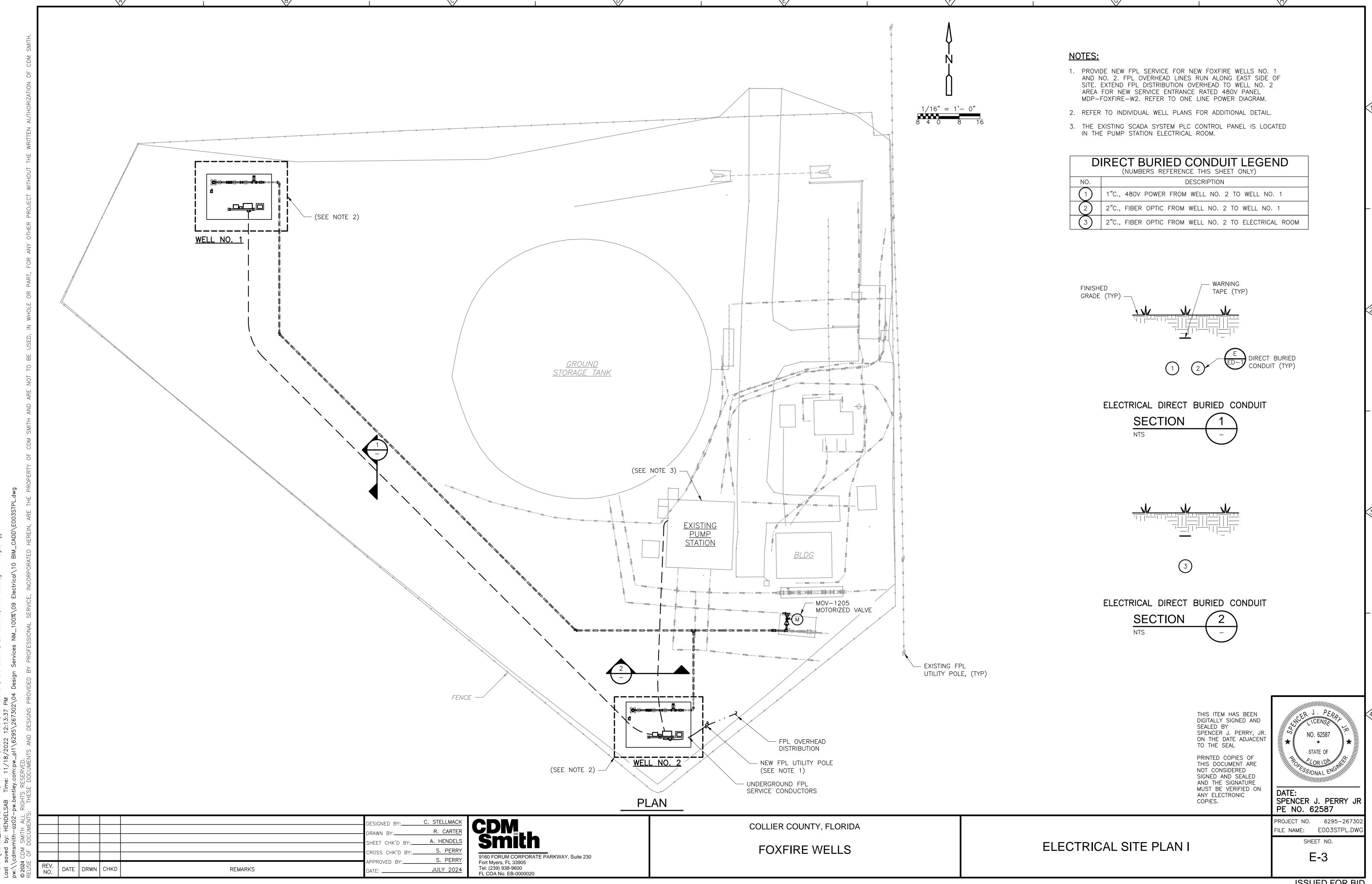
A. CARTER A. HENDELS S. PERRY S. PERRY DATE DRWN CHKD REMARKS

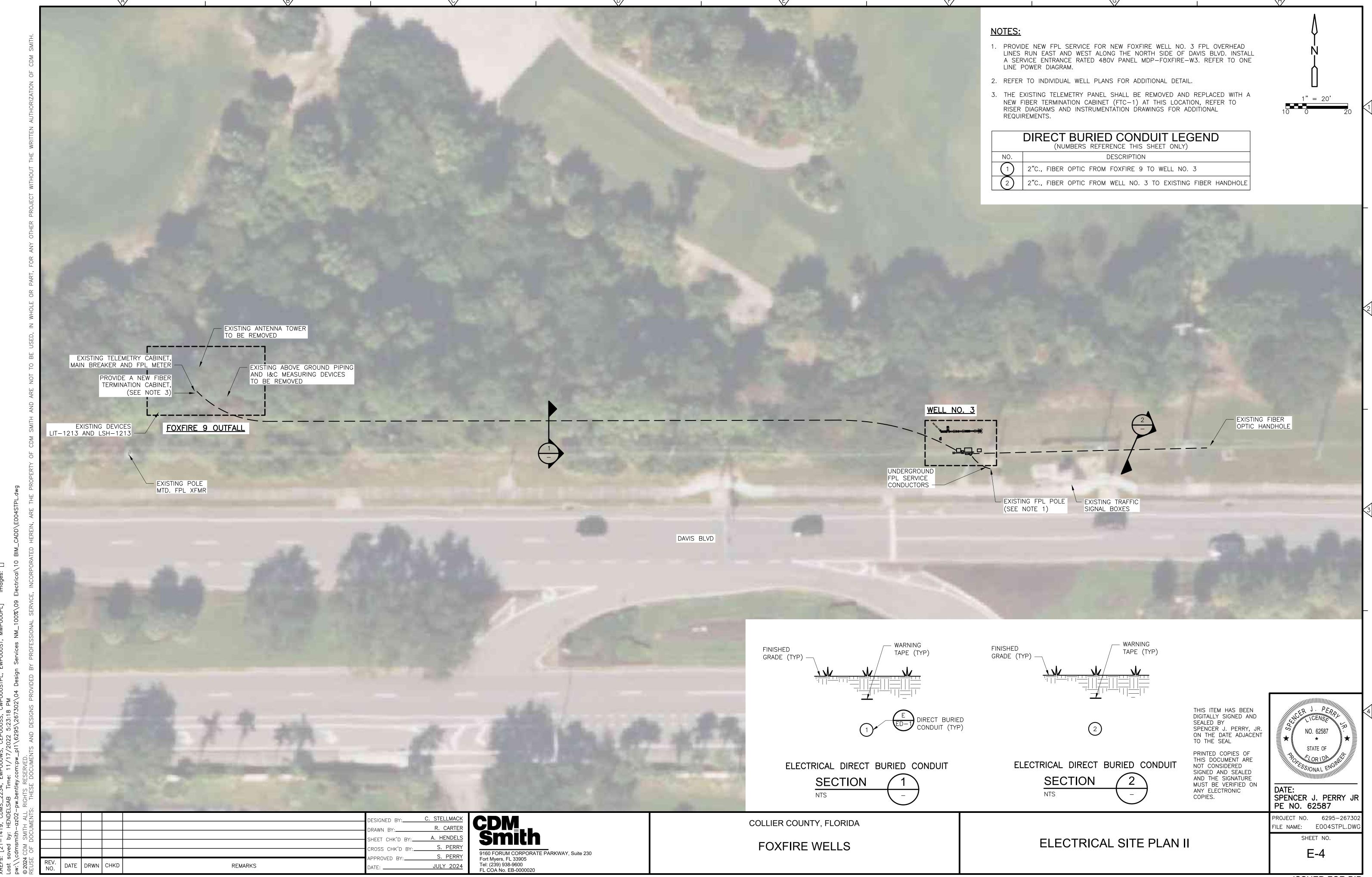


COLLIER COUNTY, FLORIDA

FOXFIRE WELLS

GENERAL ELECTRICAL NOTES





DATE DRWN CHKD

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UTU FPL

TRANSFORMER

PP-FF-W2

GND BUS

REMARKS

MAIN BKR 100A

MFR

NOTES:

15A, 2P

3kVA

480V-

240/120V 1PH

MPZ-W2

15A, 2P

3 kVA

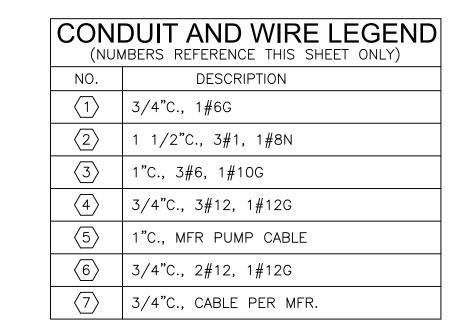
240/120V 1PH

MPZ-W1

1. ALL MDP BREAKERS TO INCLUDE PERMANENTLY MOUNTED PAD LOCKING MECHANISM FOR LOCKOUT / TAGOUT.

H

2. SEE SHEET E-7 FOR ADDITIONAL PUMP CONTROL PANEL REQUIREMENTS.



| PP-FF-W2 | | | | |
|---|-----------|--|--|--|
| DESCRIPTION | LOAD (VA) | | | |
| WELL PUMP NO. 1 | 27000 | | | |
| WELL PUMP NO. 2 | 27000 | | | |
| PANEL MPZ-W1 | 3000 | | | |
| PANEL MPZ-W2 | 3000 | | | |
| MOTOR OPERATED VALVE (MOV-1205) | 1000 | | | |
| TOTAL CONNECTED LOAD (VA) = | 61000 | | | |
| TOTAL CONNECTED LOAD (AMPERES @480V, 3-PHASE) = | 73.4 | | | |

FOXFIRE WELLS NO. 1 AND NO. 2 ONE LINE POWER DIAGRAM

MOTORIZED VALVE (MOV-1205)

| DESIGNED BY: | C. STELLMACK | |
|-----------------|--------------|--------------|
| DRAWN BY: | R. CARTER | |
| SHEET CHK'D BY: | A. HENDELS | |
| CROSS CHK'D BY: | S. PERRY | |
| APPROVED BY: | S. PERRY | 9160 Fort |
| | | |

NEMA 4X ENCLOSURE

27 KVA

PCP-W2

WELL NO. 2 SUBMERSIBLE PUMP

- 100A, 480/277V, 3ø, 4W, 18KAIC

- REMOTE WELL SITE MAIN CIRCUIT BREAKER NEMA 4X ENCLOSURE

T-W1

27 KVA

PCP-W1

WELL NO. 1 SUBMERSIBLE PUMP

VFD ISOLATION TRANSFORMER

480V PUMP CONTROL PANEL (PCP)

NEMA 3R ENCLOSURE

(TYP OF 2)

WITH VFD RATED 27 FLA NEMA 4X ENCLOSURE

(TYP OF 2)

SERVICE ENTRANCE RATED

60 FORUM CORPORATE PARKWAY, Suite 230 Tel: (239) 938-9600 FL COA No. EB-0000020

COLLIER COUNTY, FLORIDA FOXFIRE WELLS

FOXFIRE WELLS NO. 1 AND NO. 2 ONE LINE POWER DIAGRAM

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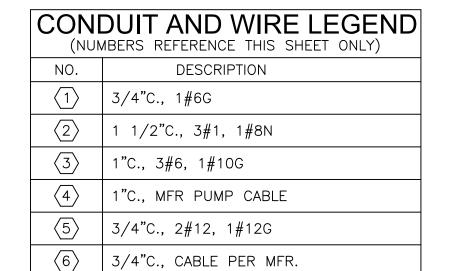
DATE: SPENCER J. PERRY JR PE NO. 62587

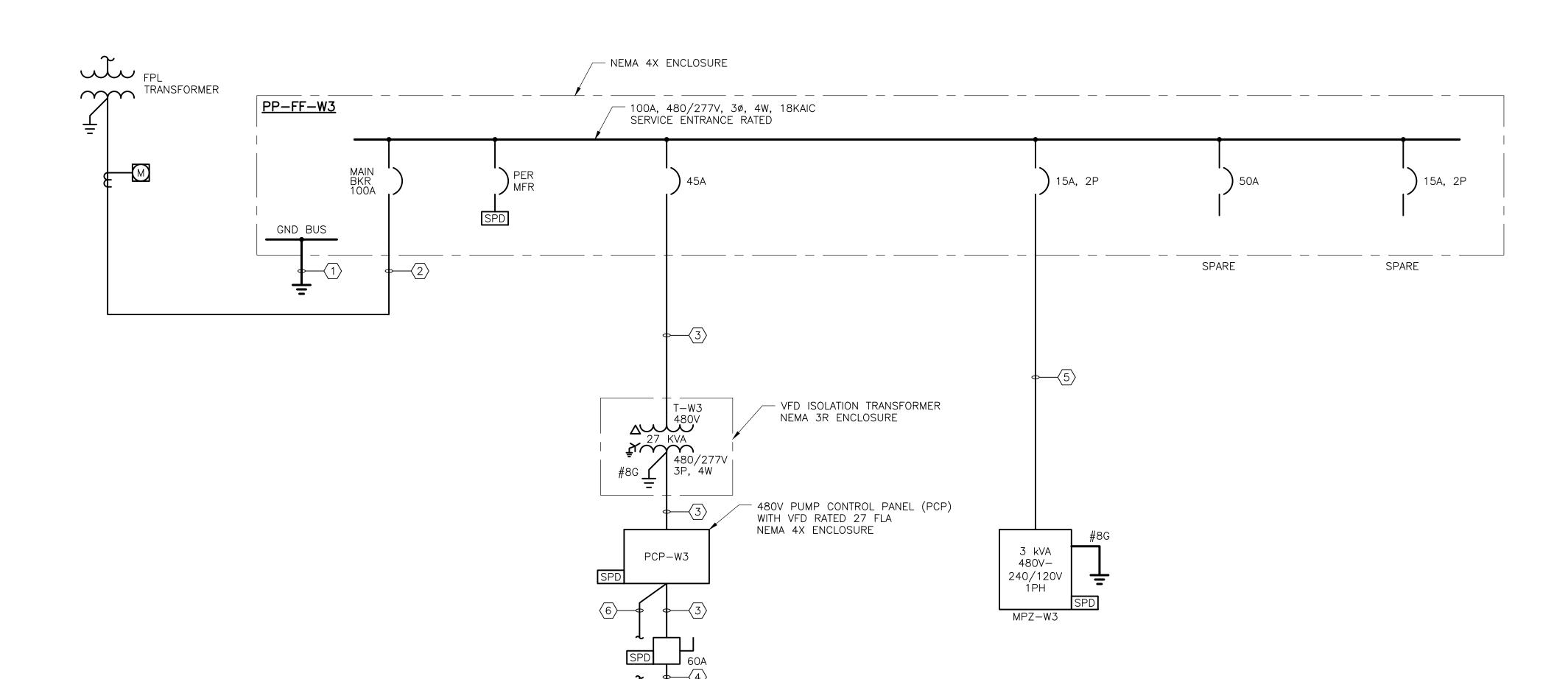
PROJECT NO. 6295-26730 FILE NAME: E005NFOL.DW SHEET NO.

E-5

NOTES:

- ALL MDP BREAKERS TO INCLUDE PERMANENTLY MOUNTED PAD LOCKING MECHANISM FOR LOCKOUT / TAGOUT.
- 2. SEE SHEET E-7 FOR ADDITIONAL PUMP CONTROL PANEL REQUIREMENTS.





| PP-FF-W3 | | | |
|---|-----------|--|--|
| DESCRIPTION | LOAD (VA) | | |
| WELL PUMP NO. 3 | 27000 | | |
| PANEL MPZ-W1 | 3000 | | |
| TOTAL CONNECTED LOAD (VA) = | 30000 | | |
| TOTAL CONNECTED LOAD (AMPERES @480V, 3-PHASE) = | 36.1 | | |

FOXFIRE WELL NO. 3
ONE LINE POWER DIAGRAM

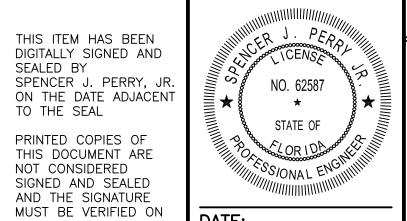
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|---|
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| |

| | | | | | DESIGNED BY: | C. STELLMACK |
|-------------|------|------|------|---------|-----------------|--------------|
| | | | | | DRAWN BY: | R. CARTER |
| | | | | | SHEET CHK'D BY: | A. HENDELS |
| | | | | | CROSS CHK'D BY: | S. PERRY |
| | | | | | APPROVED BY: | S. PERRY |
| REV. NO. | DATE | DRWN | CHKD | REMARKS | DATE: | JULY 2024 |

| CK FER | CDM. |
|------------|--|
| ELS | Smith |
| RRY RRY | 9160 FORUM CORPORATE PARKWAY, Suite 230 Fort Myers, FL 33905 |
| <u>)24</u> | Tel: (239) 938-9600 FL COA No. EB-0000020 |

FOXFIRE WELLS

FOXFIRE WELL NO. 3 ONE LINE POWER DIAGRAM

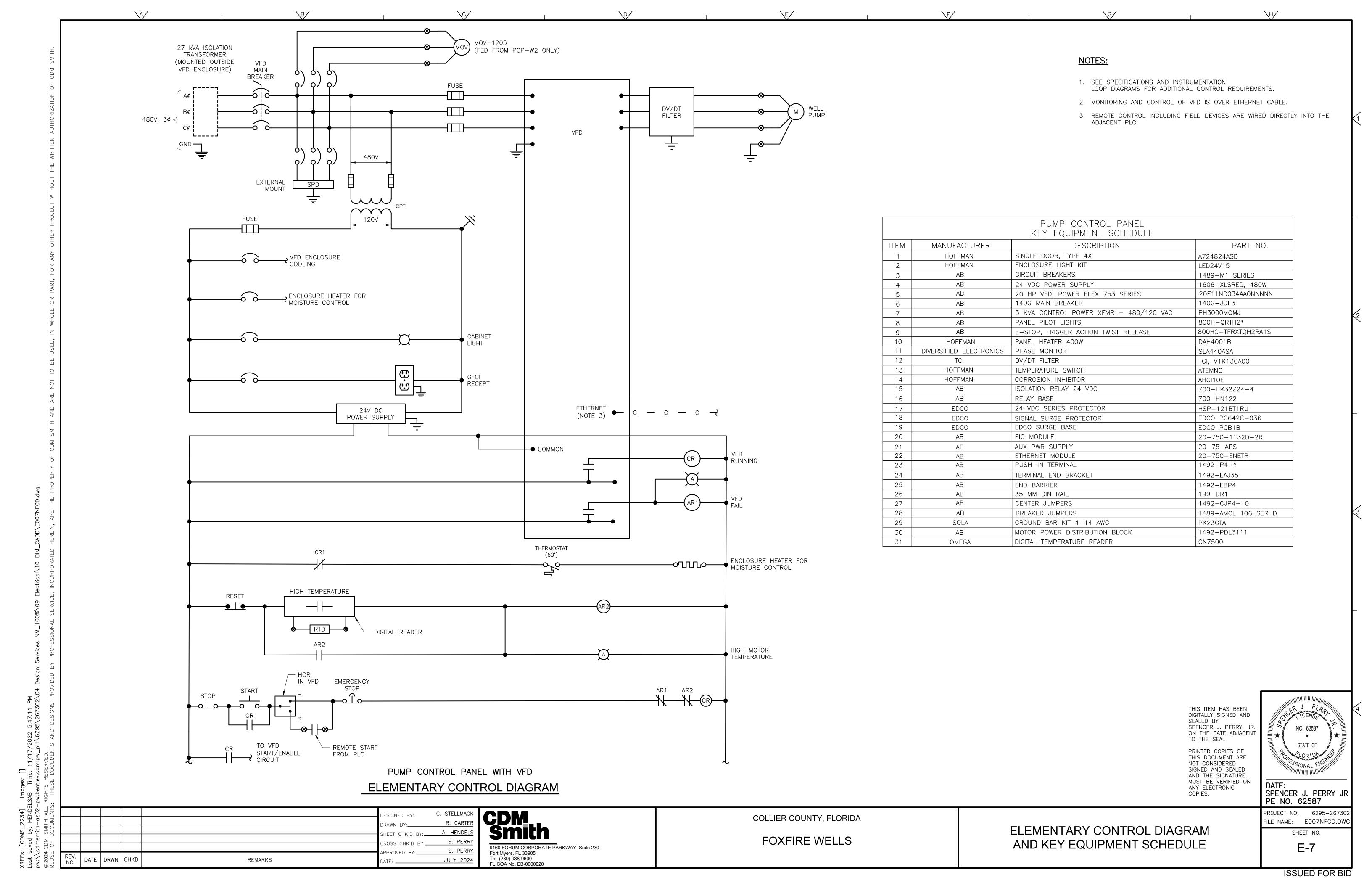


DATE: SPENCER J. PERRY JR PE NO. 62587

PROJECT NO. 6295-267302

FILE NAME: E006NFOL.DWG

E-6



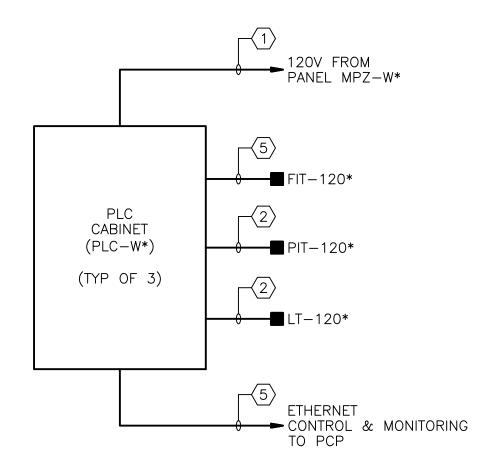
SCADA SYSTEM RISER DIAGRAM

TRANSFORMER PANEL ASSEMBLY PANEL MPZ-W* 3 KVA 1-PHASE TRANSFORMER 480 VOLT PRIMARY 10 AMP 2 POLE PRIMARY MAIN BREAKER 20 AMP 2 POLE SECONDARY MAIN BREAKER LOCATION: WELL EQUIPMENT RACK 100 AMP BUS RATING 10 POLES **18** KA SHORT CIRCUIT RATING ENCLOSURE RATING: NEMA 3R SS 60 Hz. ELECTRONIC GRADE: NO 120/240 VOLTS SECONDARY 1 PHASE 3 WIRE MOUNTING: RACK MOUNTED LOAD KVA BREAKER LOAD KVA BREAKER LINE LINE LINE LINE AMPS/ A B POLES DESCRIPTION AMPS/ DESCRIPTION CIRCUIT CIRCUIT NO. А В POLES NO. POLES 0.00 20 /2 20 /1 2 **FIT-120*** 4 RACK MTD. GFCI RECEPT.
6 SPARE
8 SPARE 0.00 0.18 **20 /1** 5 PLC CABINET (PLC-W*)
7 SPARE 1.00 0.00 20 /1 20 /1 0.00 **20 /1** 0.00 20 /1 9 SPARE 10 SPARE 20 /1 20 /1 TOTAL LINE KVA THIS SIDE OTAL LINE KVA THIS SIDE 1.00 0.00 0.10 0.18 TOTAL KVA PER LINE 1.10 0.18 TOTAL KVA NOTES: NOTES CONT.: 2 * PANELBOARD SCHEDULE TYPICAL FOR ALL WELL SITES. 1 PROVIDE 3/4"C., 2#12, 1#12G

CONDUIT AND WIRE LEGEND

H

| (NUMBERS REFERENCE THIS SHEET ONLY) | | | | |
|-------------------------------------|-------------------------------------|--|--|--|
| NO. | DESCRIPTION | | | |
| (1) 3/4"C., 2#12, 1#12G | | | | |
| 2 | 3/4"C., 1-2/C #16TS | | | |
| (3) | 3/4"C., 2#14, 1#14G | | | |
| 4 | 1"C., 12#14, 1#14G | | | |
| (5) | 3/4"C., CAT5e (600V) ETHERNET CABLE | | | |
| (6) 2"C., FIBER OPTIC CABLE | | | | |



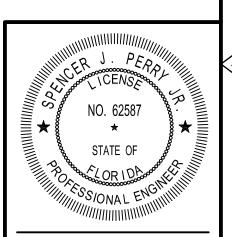
PLC-W* RISER DIAGRAM * = 1, 2, OR 3 FOR WELL NUMBER

COLLIER COUNTY, FLORIDA

FOXFIRE WELLS

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PROJECT NO. 6295-267302 FILE NAME: E008NFRD.DWG SHEET NO.

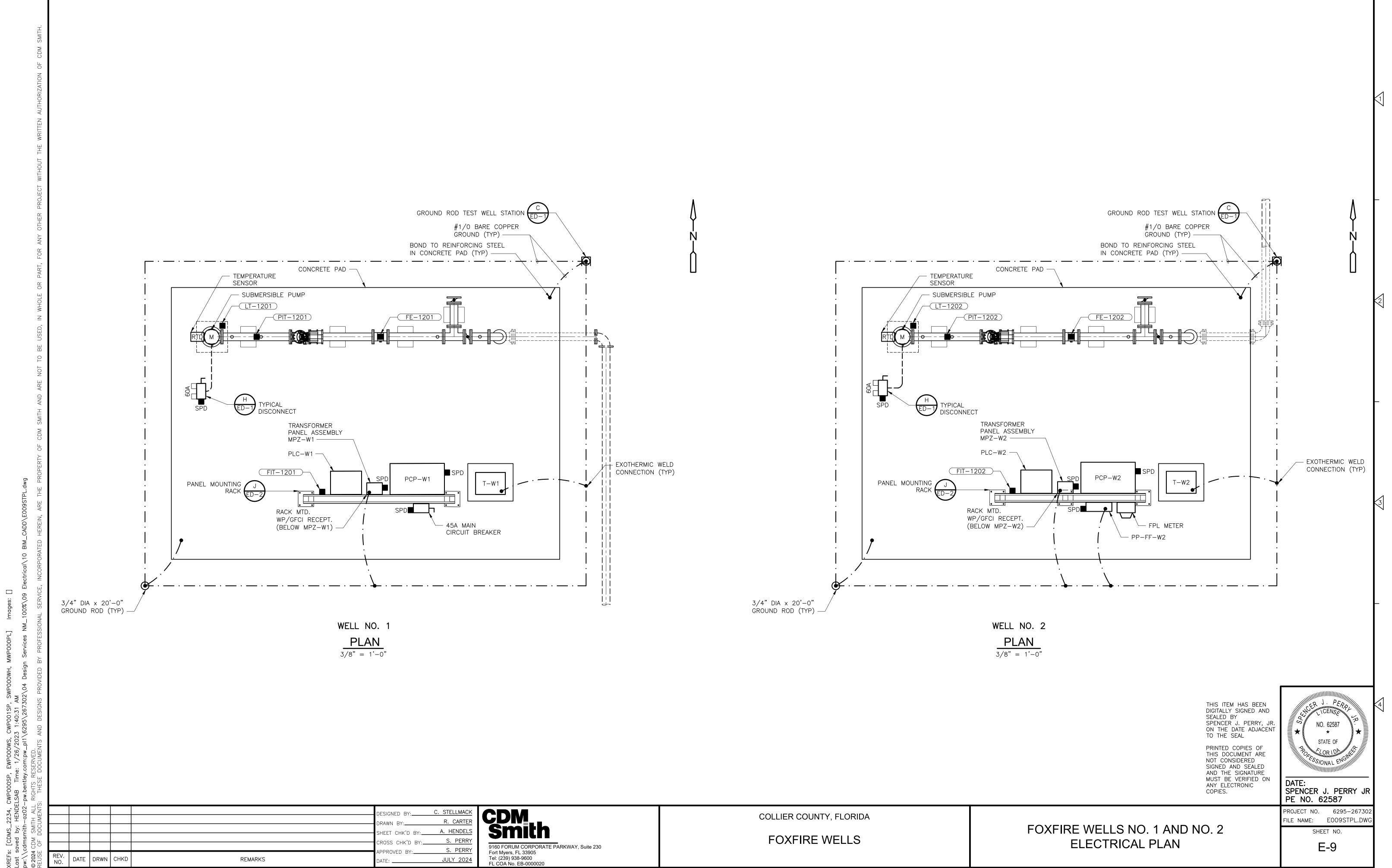
E-8

AND PANELBOARD SCHEDULE

| | | | | | DESIGNED BY: | C. STELLMAC |
|-------------|------|------|------|---------|-----------------|-------------|
| | | | | | DRAWN BY: | R. CARTE |
| | | | | | SHEET CHK'D BY: | A. HENDEL |
| | | | | | CROSS CHK'D BY: | S. PERR |
| | | | | | APPROVED BY: | S. PERR |
| REV. NO. | DATE | DRWN | CHKD | REMARKS | DATE: | JULY 202 |
| | | | | | | |

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| <u>ACK</u> | CDM |
|------------|---|
| TER | |
| <u>ELS</u> | Smith |
| RRY | |
| RRY | 9160 FORUM CORPORATE PARKWAY, Suite 230 Fort Myers, FL 33905 |
| <u> </u> | Tel: (239) 938-9600 FL COA No. EB-0000020 |

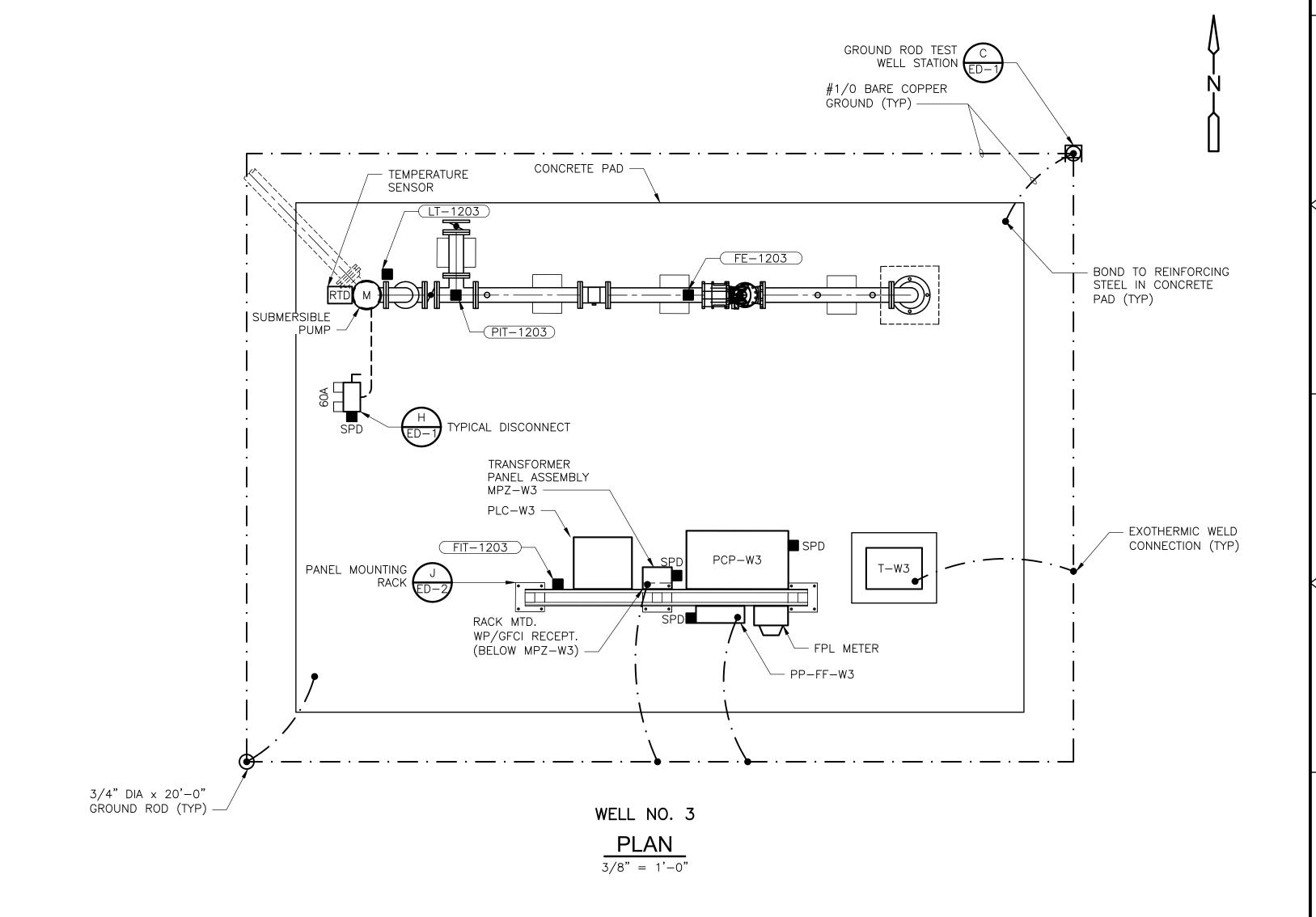


FOXFIRE 9 OUTFALL

PHOTO

NOTES:

- 1. REMOVE EXISTING I&C MEASURING DEVICES, SWITCHES, FLOW METERS, ETC., ASSOCIATED PIPING, ELECTRICAL BOXES, CONDUITS, AND WIRING BACK TO THE CONTROL PANEL.
- 2. REMOVE THE EXISTING TELEMETRY PANEL AND ALL ASSOCIATED COMPONENTS AND RETURN THEM TO THE OWNER.
- INSTALL A NEW FIBER TERMINATION CABINET "FTC-1." INSTALL THE CABINET ON THE EXISTING RACK, SEE RISER DIAGRAMS FOR CONDUIT AND WIRE REQUIREMENTS.
- 4. DEMOLISH THE EXISTING ANTENNA TOWER AND RETURN CONNECTED COMPONENTS TO THE OWNER.



R. CARTER A. HENDELS S. PERRY S. PERRY DATE DRWN CHKD REMARKS

9160 FORUM CORPORATE PARKWAY, Suite 230 Fort Myers, FL 33905 Tel: (239) 938-9600 FL COA No. EB-0000020

COLLIER COUNTY, FLORIDA

FOXFIRE WELLS

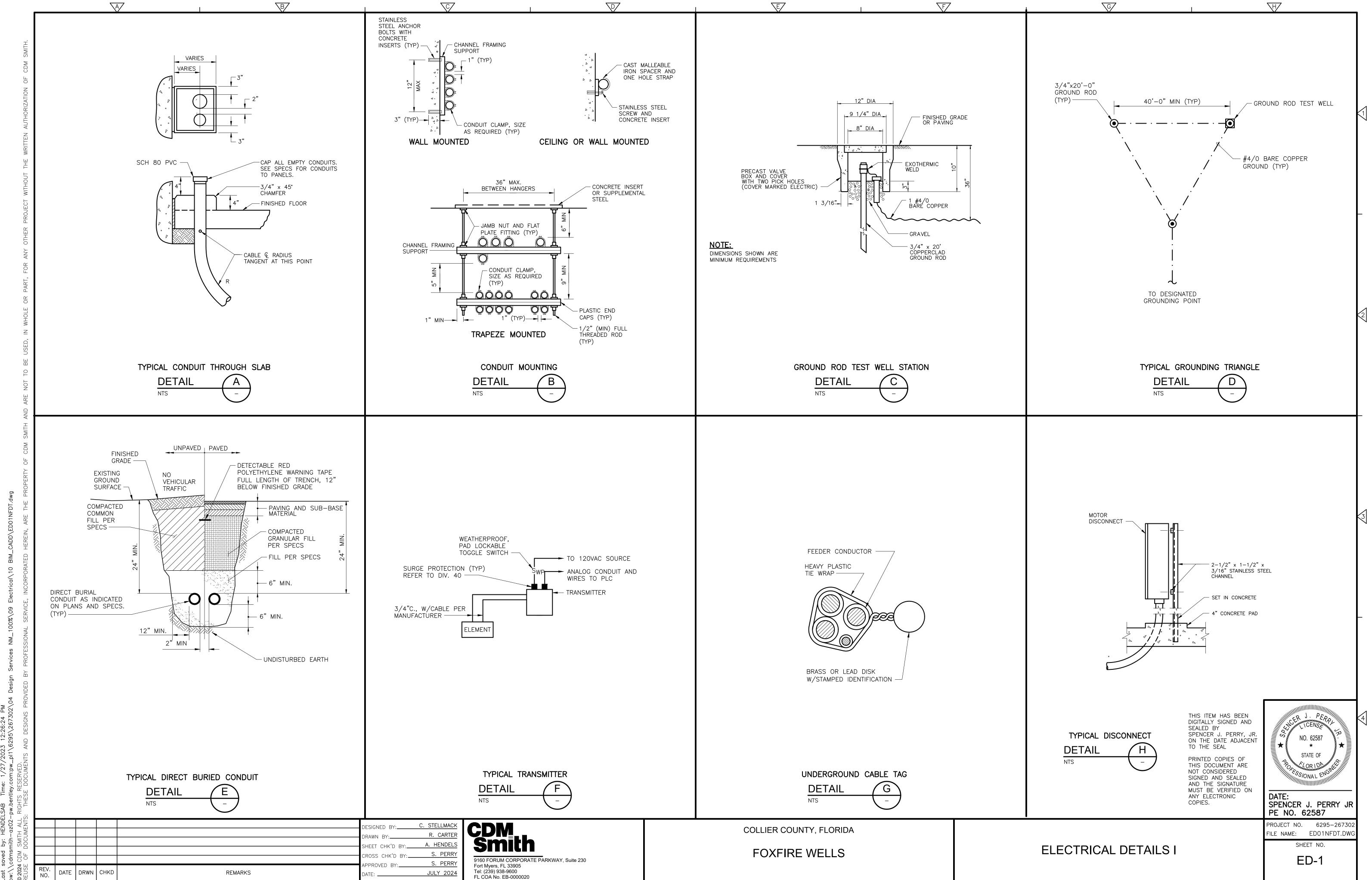
FOXFIRE 9 OUTFALL AND FOXFIRE WELL NO. 3 ELECTRICAL PLAN

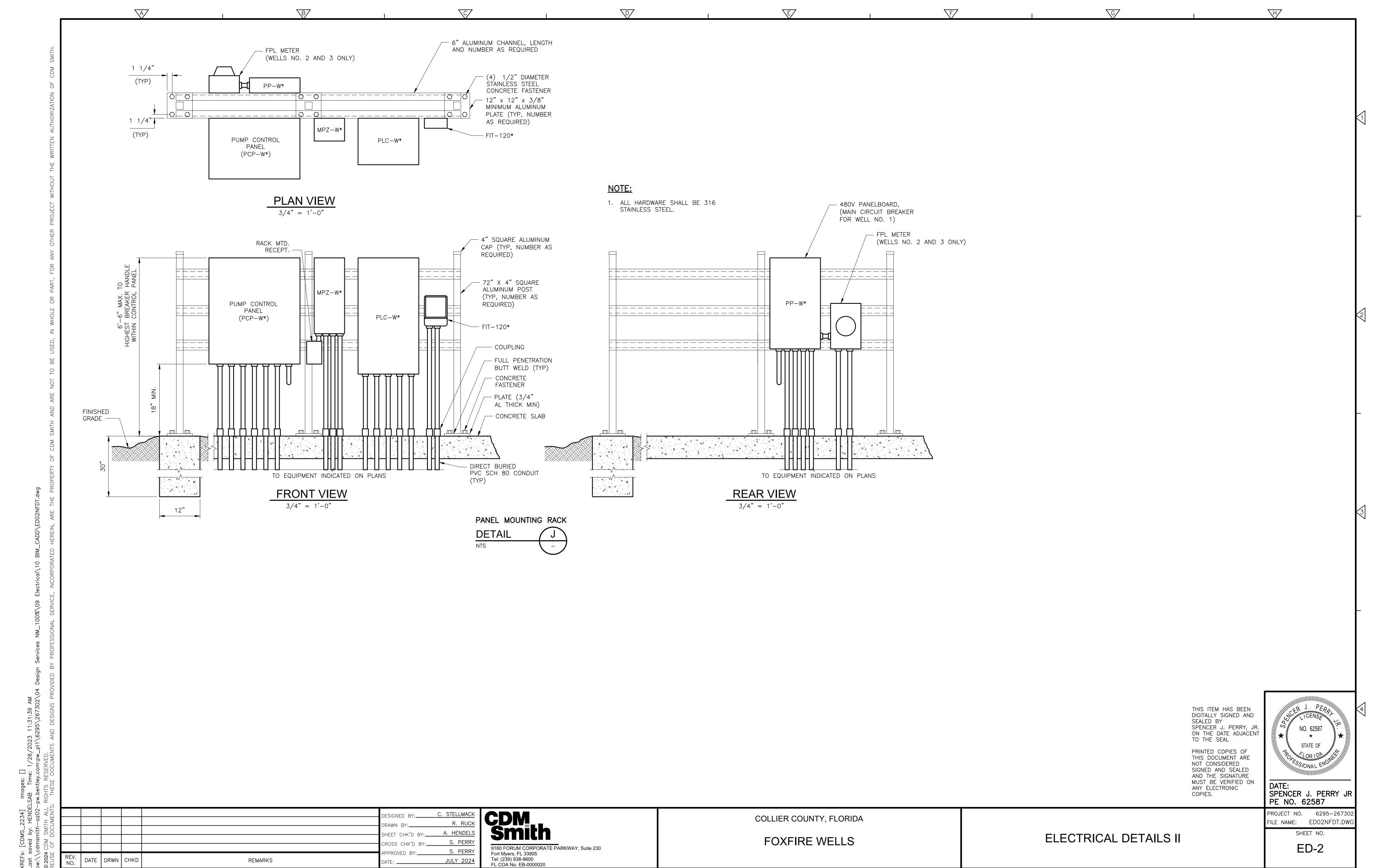
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DATE: SPENCER J. PERRY JR PE NO. 62587

PROJECT NO. 6295-267302 FILE NAME: E010STPL.DW

> SHEET NO. E-10





| | INSTRUMENTS | SHARING | COMMON | HOUSING |
|--------------|-------------|---------|--------|---------|
| \checkmark | | | | |

PILOT LIGHT

MISCELLANEOUS SYMBOLS

| #€ | | \supset | |
|----|----------|-----------|--|
| | \wedge | | |

INDICATES INTERLOCK OR LOGIC IN A MOTOR CONTROL CENTER



INDICATES GENERAL OR MISCELLANEOUS HARDWIRED INTERLOCK



MOTOR STARTER



SILICONE CONTROL RECTIFIER

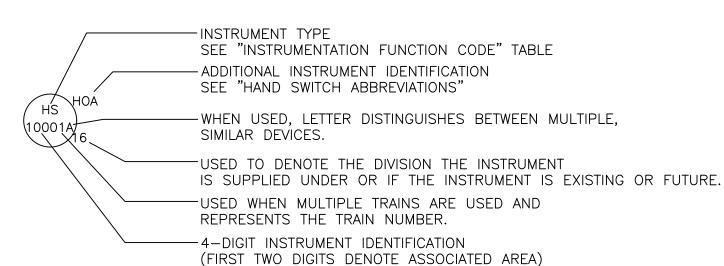


VARIABLE FREQUENCY DRIVE



PURGE OR FLUSHING DEVICE

TYPICAL TAG NUMBERS & DESIGNATION



HAND SWITCH ABBREVIATIONS

AO = AUTO/OFFAM = AUTO/MANUALCM = COMPUTER/MANUALCL = COMPUTER/LOCAL

E-STOP = EMERGENCY STOPFR = FORWARD/REVERSEFOR = FORWARD/OFF/REVERSE

FS = FAST SLOWFOS = FAST/OFF/SLOWHOA = HAND/OFF/AUTOLLS = LEAD/LAG/STANDBYLOC = LOCAL/OFF/COMPUTER

DATE DRWN CHKD

LOR = LOCAL/OFF/REMOTELOS = LOCKOUT/STOPLA = LOCAL/AUTOLR = LOCAL/REMOTEOC = OPEN/CLOSE00 = ON/OFF

OCA = OPEN/CLOSE/AUTOOOA = ON/OFF/AUTOOSC = OPEN/STOP/CLOSERSL = RAISE/STOP/LOWER

SOR = START/OFF/RESET

REMARKS

SS = START/STOP

INSTRUMENTATION FUNCTION CODE

| | FIRST | LETTERS | SUCCEEDING LETTERS | | | |
|---|------------------------------------|-------------------------------------|--|--|----------------------|--|
| | COLUMN 1 | COLUMN 2 | COLUMN 3 | COLUMN 4 | COLUMN 5 | |
| | MEASURED/INITIATING | VARIABLE MODIFIER | READOUT/PASSIVE | OUTPUT/ACTIVE | FUNCTION MODIFIER | |
| | VARÍÁBLE | | FUNĆTION | FUNĆTION | | |
| Α | ANALYSIS | | ALARM | | | |
| В | BURNER, COMBUSTION | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE | |
| С | USER'S CHOICE | | | CONTROL | CLOSED | |
| D | USER'S CHOICE | DIFFERENCE, DIFFERENTIAL | | | DEVIATION | |
| Е | VOLTAGE | | SENSOR, PRIMARY ELEMENT | | | |
| F | FLOW, FLOW RATE | RATIO | | | | |
| G | USER'S CHOICE | | GLASS, GAUGE, VIEWING DEVICE | | | |
| Н | HAND | | | | HIGH | |
| | CURRENT | | INDICATE | | | |
| J | POWER | | SCAN | | | |
| Κ | TIME, SCHEDULE | TIME RATE OF CHANGE | | CONTROL STATION | | |
| L | LEVEL | | LIGHT | | LOW | |
| М | MOISTURE | | | | MIDDLE, INTERMEDIATE | |
| Ν | USER'S CHOICE | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE | |
| 0 | USER'S CHOICE | | ORIFICE, RESTRICTION | | OPEN | |
| Р | PRESSURE | | POINT (TEST CONNECTION) | | | |
| Q | QUANTITY | INTEGRATE, TOTALIZE | INTEGRATE, TOTALIZE | | | |
| | RADIATION | , | RECORD | | RUN | |
| S | SPEED, FREQUENCY | SAFETY | | SWITCH | STOP | |
| Т | TEMPERATURE | | | TRANSMIT | | |
| U | MULTIVARIABLE | | MULTIFUNCTION | MULTIFUNCTION | | |
| V | VIBRATION, MECHANICAL, ANALYSIS | | | VALVE, DAMPER, LOUVER | | |
| W | WEIGHT, FORCE | | WELL, PROBE | | | |
| | · | X-AXIS | ACCESSORY DEVICES, UNCLASSIFIED (1) | UNCLASSIFIED (1) | UNCLASSIFIED (1) | |
| Υ | EVENT, STATE, PRESENCE | Y-AXIS | , , | AUXILIARY DEVICES | | |
| Z | | Z-AXIS, SAFETY INSTRUMENT SYSTEM | | DRIVER, ACTUATOR, UNCLASSIFIED, FINAL CONTROL ELEMENT | | |

TABLE NOTES:

A. CARTER M. GRAHAM

F. ALCALA

M. GRAHAM

4210 Metro Parkway, Suite 230

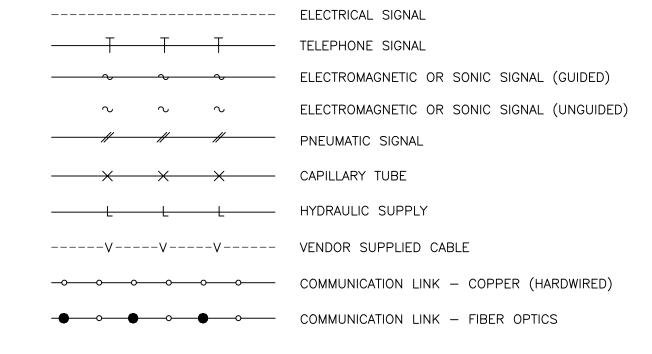
Fort Myers, FL 33916

FL COA No. EB-0000020

Tel: (239) 938-9600

(1) WHEN USED SYMBOL OR SIGNAL LINE IS ANNOTATED.

INSTRUMENT LINE SYMBOLS



UPS--- → UPS POWERED ELECTRICAL SOURCE ES--- ■ ELECTRICAL SOURCE

I/O SIGNALS

- MEASURED VARIABLE OR OUTPUT FUNCTION FROM "INSTRUMENTATION FUNCTION CODE" TABLE. ANALOG OUTPUT (AO) ANALOG INPUT (AI) TC = THERMOCOUPLE INPUT RTD = RTD INPUTDIGITAL OUTPUT (DO) DIGITAL INPUT (DI)

GENERAL NOTES

THIS LEGEND APPLIES TO P&IDS ONLY AND MAY DIFFER FROM LEGENDS FOR OTHER SHEETS.

\H\

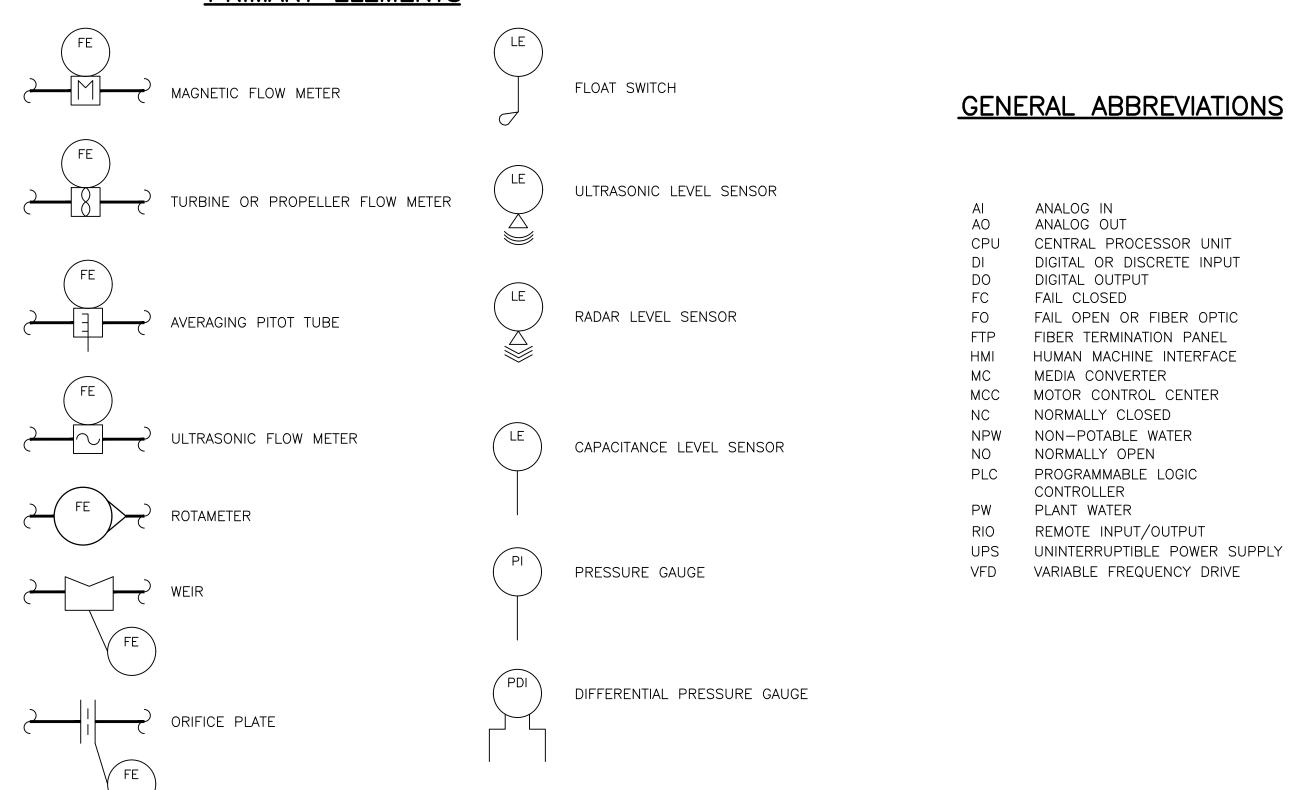
2. IN GENERAL THIS LEGEND SHEET AND THE P&IDS ARE BASED ON THE INTERNATIONAL SOCIETY OF AUTOMATION (ISA) STANDARDS AND RECOMMENDED PRACTICES FOR INSTRUMENTATION AND CONTROL. SOME MODIFICATIONS, ADDITIONS AND ALTERATIONS HAVE BEEN MADE AS REQUIRED TO ACCOMMODATE PROJECT REQUIREMENTS.

3. SOME PROCESS ITEMS SUCH AS EQUIPMENT ISOLATION VALVES, BYPASS LINES, ETC., WHICH ARE NOT CRITICAL FOR AN UNDERSTANDING OF THE INSTRUMENTATION FUNCTIONS ARE NOT SHOWN ON THE P&IDS.

4. SEE ELECTRICAL AND MECHANICAL SHEETS AND SPECIFICATIONS FOR ADDITIONAL CONTROL AND INTERLOCK REQUIREMENTS.

5. LIGHTER WEIGHT LINES, SHOWN AS - , INDICATE EQUIPMENT, INSTRUMENTS OR PIPING THAT ARE EXISTING. WEIGHTED LINES, SHOWN AS ____ OR HEAVIER ______ , INDICATE EQUIPMENT, INSTRUMENTS OR PIPING THAT ARE NEW. DASHED WEIGHTED LINES, SHOWN AS ----, INDICATED EQUIPMENT, INSTRUMENTS OR PIPING THAT ARE GROUPED AS A PACKAGE.

PRIMARY ELEMENTS



ELECTRICAL / AIR SOURCES

IA — INSTRUMENT AIR SOURCE

THERMAL MASS FLOW METER

COLLIER COUNTY, FLORIDA

FOXFIRE WELLS

VENTURI TUBE

DO=DISSOLVED OXYGEN H2S=HYDROGEN SULFIDE LEL=% LOWER EXPLOSIVE LIMIT 02=OXYGEN

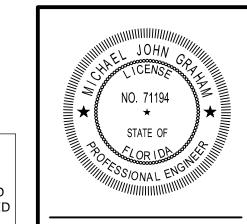
03=0ZONE NH3=NITRATE TURB=TURBIDITY |FL=FLUORIDE

TEMPERATURE GAUGE

GENERAL ANALYZER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL J. GRAHAM ON THE DATE ADJACENT TO THE SEAL.

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DATE: MICHAEL J GRAHAM PE NO. 71194

PROJECT NO. 6295-26730

SHEET NO.

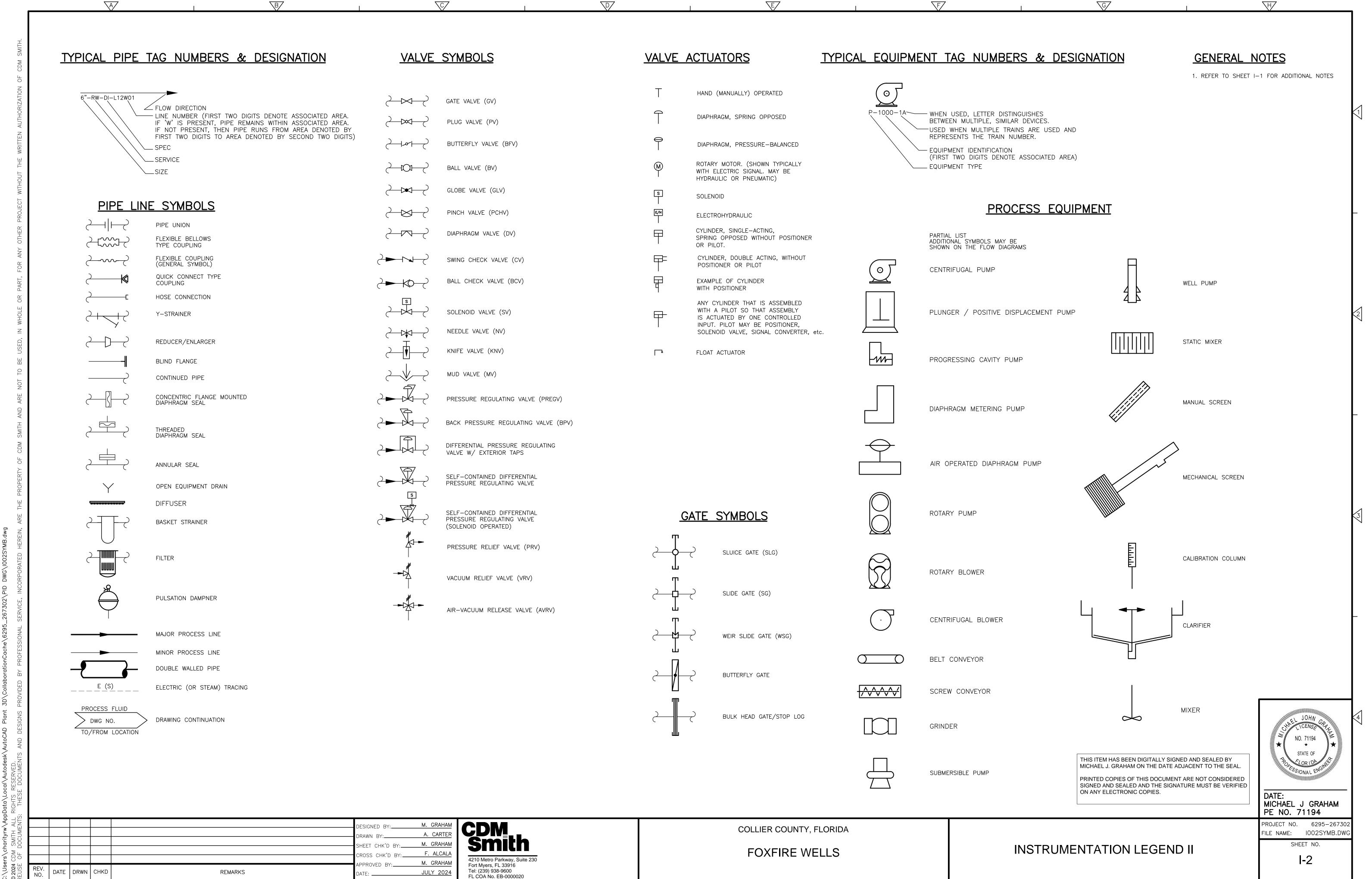
1-1

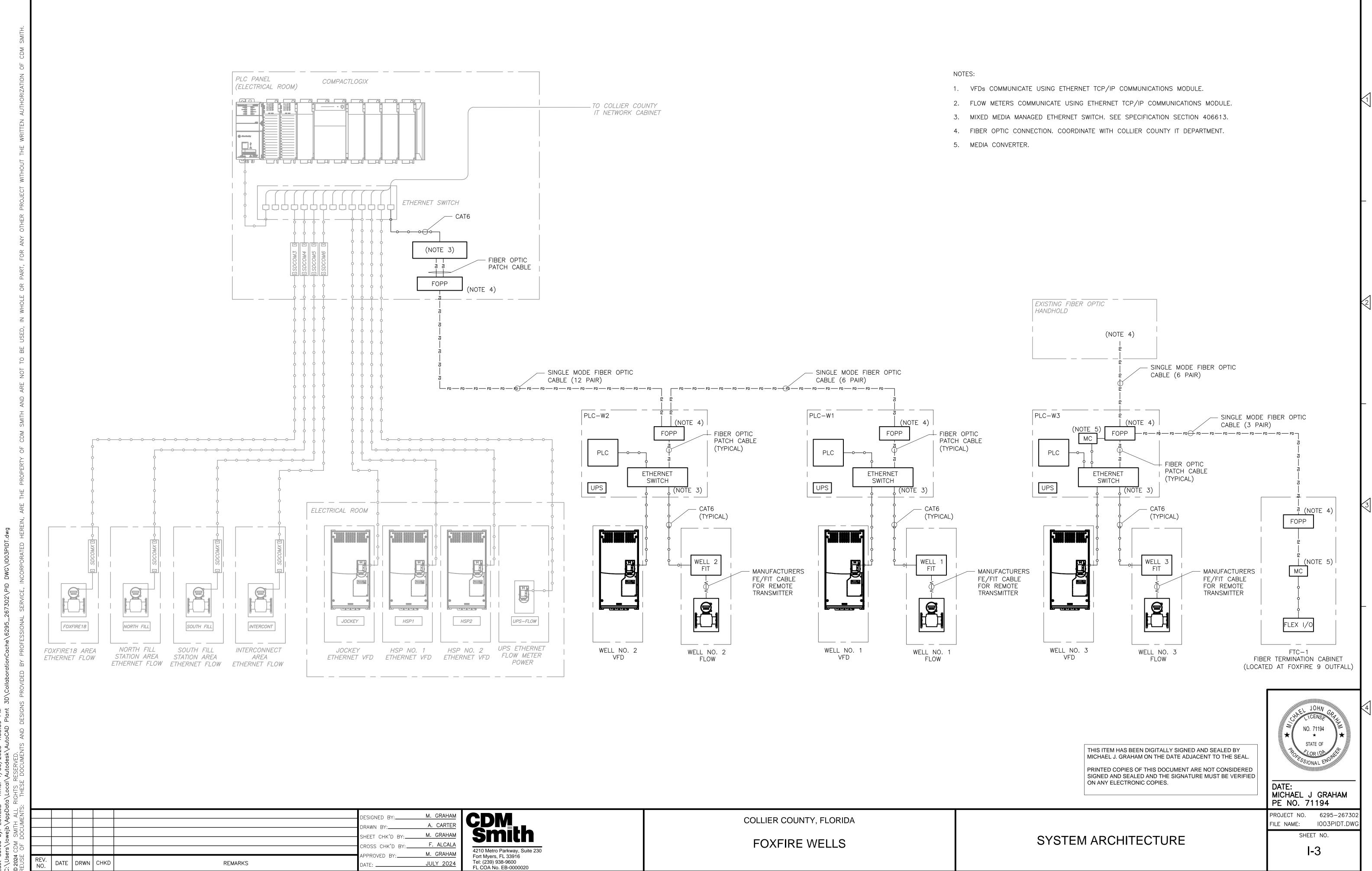
INSTRUMENTATION LEGEND I

FILE NAME: 1001SYMB.DW

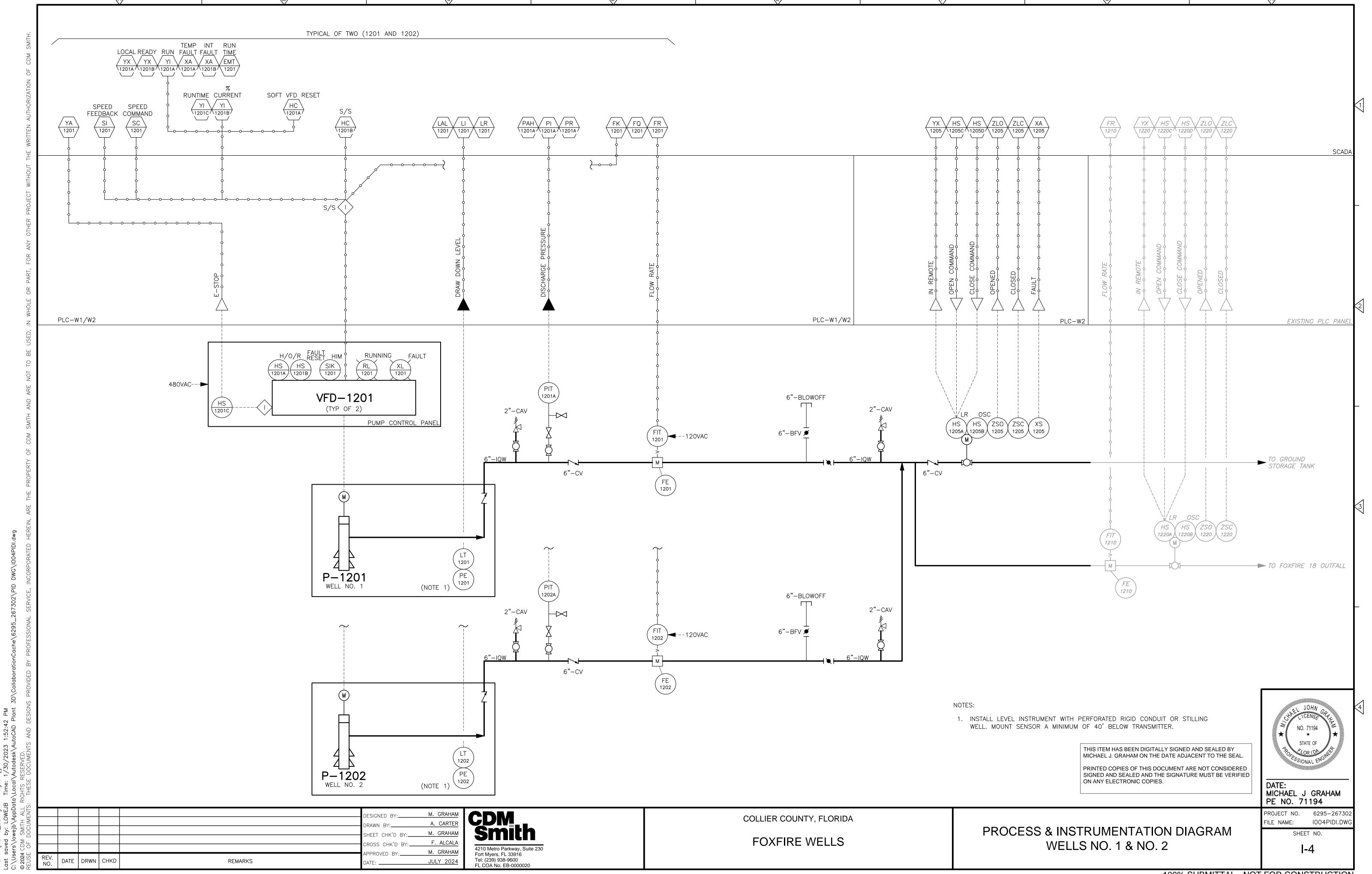
GENERAL INSERTION FLOW METER

→ IM=INSERT MAG

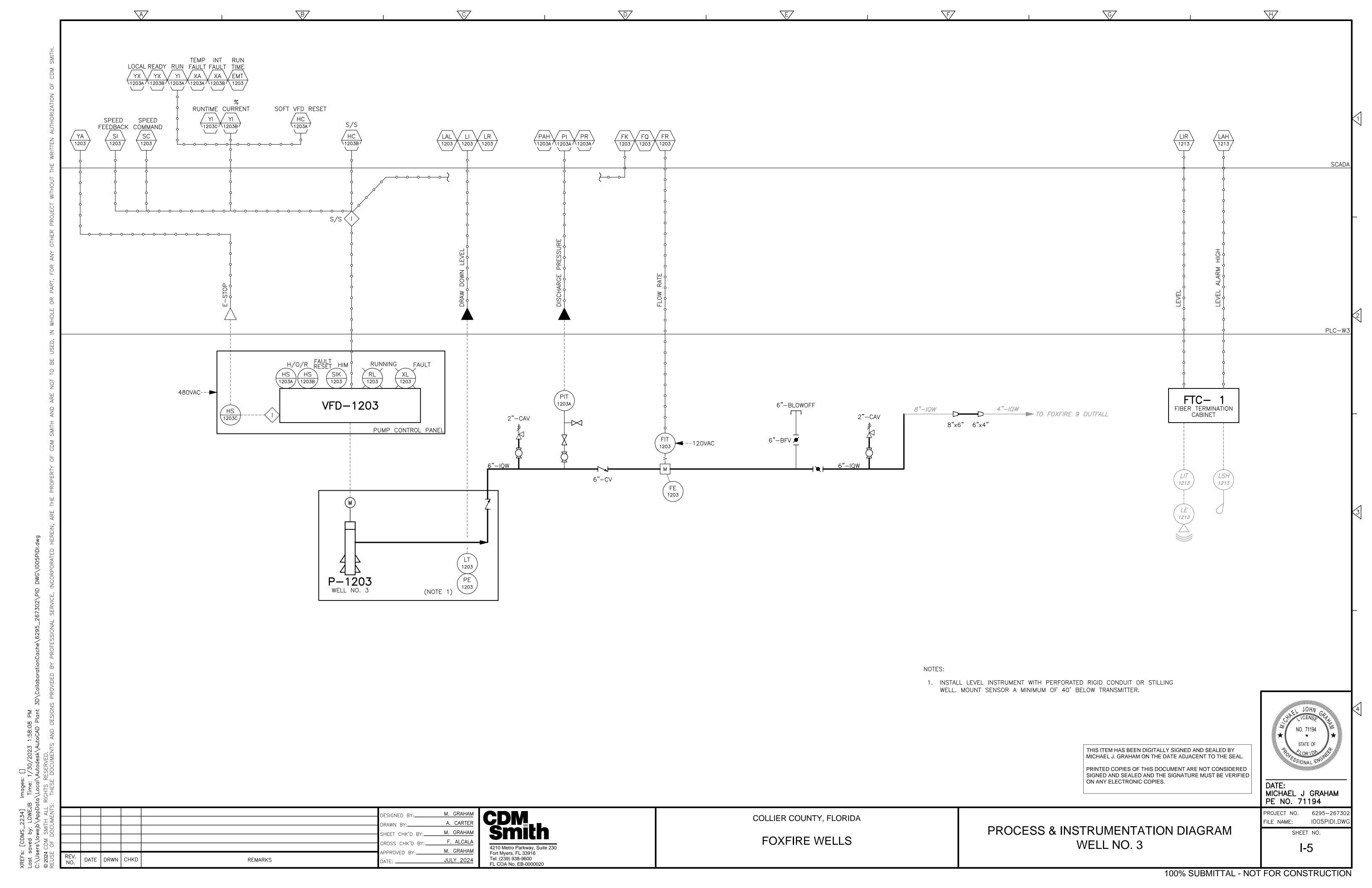


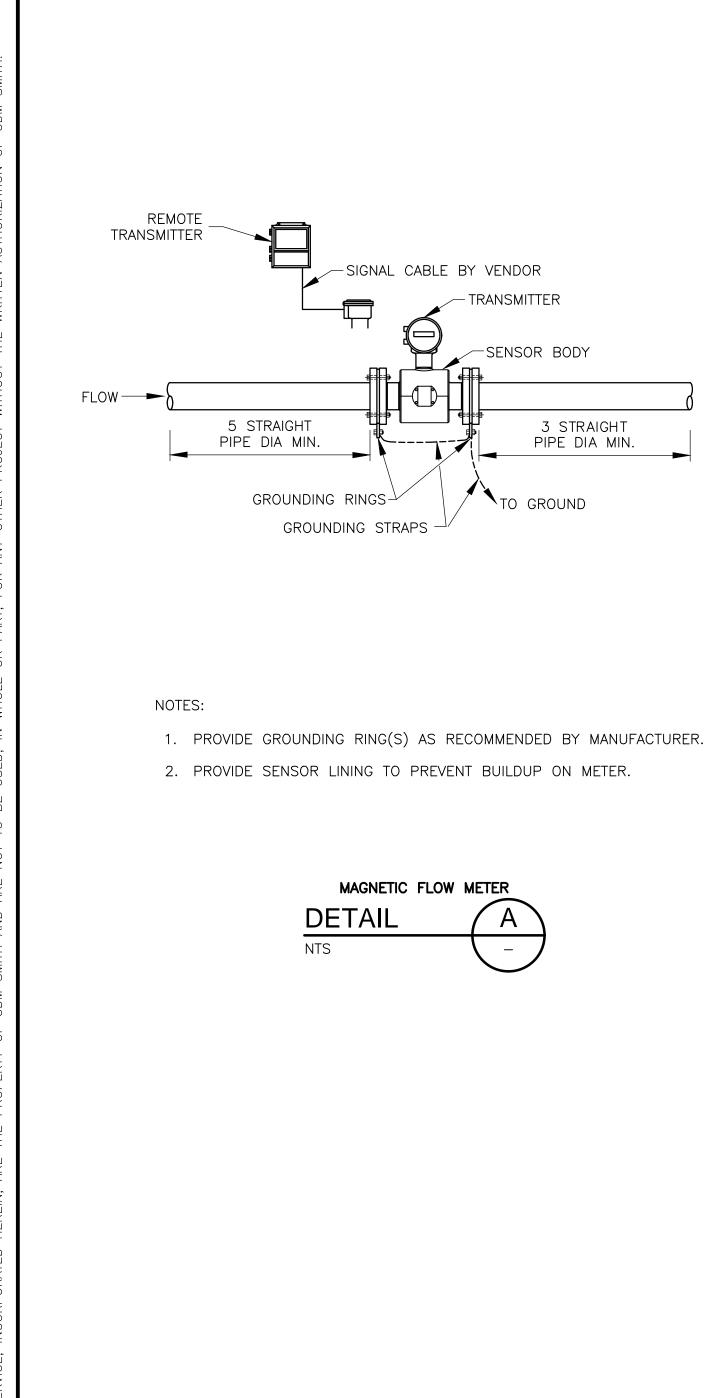


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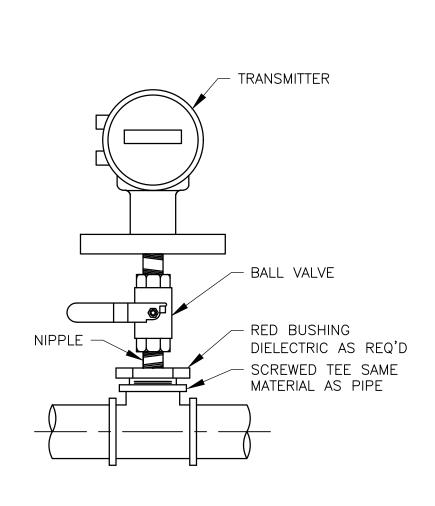


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A



PRESSURE TRANSMITTER
(WITHOUT DIAPHRAGM SEAL)

DETAIL

NTS

MOUNTING HOLES TO SUIT INSTRUMENT
SECURE INSTRUMENT TO STANCHION W/
STAINLESS STEEL BOLTS, NUTS & WASHERS

3/16

L 2-1/2" x 2" x 1/4" ALUMINUM
LENGTH TO SUIT INSTRUMENT
(TYPICAL)

GRAVEL

EARTH

EARTH

ALUMINUM PIPE

GRAVEL

NOTES:

- 1. ALL EXPOSED EDGES TO BE GROUND SMOOTH AND BURR FREE.
- 2. ACCORDING TO SPECIFICATIONS PAINT ALL ALUMINUM IN CONTACT WITH CONCRETE.

STANCHION MOUNTING FOR CASE MOUNTED INSTRUMENTS

DETAIL



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DATE:
MICHAEL J GRAHAM
PE NO. 71194

H

PROJECT NO. 6295-26730 FILE NAME: 1006PIDT.DW

I-6

| DESIGNED BY: M. GRAHAM | DRAWN BY: A. CARTER | SHEET CHK'D BY: M. GRAHAM | CROSS CHK'D BY: M. GRAHAM | CROSS CHK'D BY: M. GRAHAM | CROSS CHK'D BY: M. GRAHAM | APPROVED BY: JULY 2024 | APPROVED BY: M. GRAHAM | APPROVED B

ER M SMITh

4210 Metro Parkway, Suite 230
Fort Myers, FL 33916
Tel: (239) 938-9600
FL COA No. EB-0000020

FOXFIRE WELLS

COLLIER COUNTY, FLORIDA

INSTRUMENT INSTALLATION DETAILS

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