

Sheet List Table Sheet Number Sheet Title 01 Cover Notes & Legends 02 Sheet Index 1 of 2 03 04 Sheet Index 2 of 2 LS-016 05 LS-018 06 LS-027 07 80 LS-032 09 LS-082 LS-086 10 LS-106 City of Naples Utility Details 12 Structural Details S0 1 of 3 S1 2 of 3 S2 3 of 3

CONSTRUCTION PLANS

LIFT STATION IMPROVEMENTS

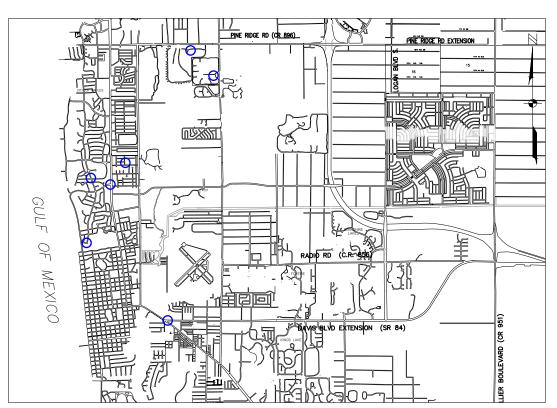
BACKUP DIESEL PUMPS

CITY OF NAPLES

LOCATED IN SECTION 14, TOWNSHIP 50 SOUTH, RANGE 25 EAST

COLLIER COUNTY, FLORIDA

JANUARY 10, 2020

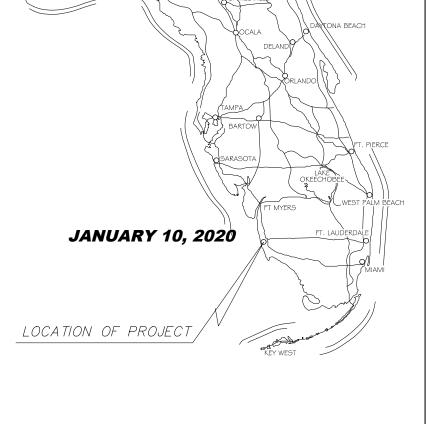


LOCATIONS MAP

N. T. S.

For Information Regarding This Project, Contact: Mark Wayne Thomas, PE

MARK WAYNE THOMAS, PE



TALLAHASSEE

NOTICE TO ALL

IT'S THE LAW IN FLORIDA 2 BUSINESS DAYS BEFORE YOU DIG

STATE, COUNTIES & CITIES



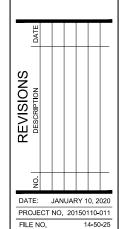
DESIGN CONSULTANT



PHONE: (239) 334-0046 FAX: (239) 334-3661

JOHNSON ENGINEERING, INC. 2122 JOHNSON STREET P.O. BOX 1550 FORT MYERS, FLORIDA 33902-1550 PHONE: (239) 334-0046 FAX: (239) 334-3661 E.B. #642 & L.B. #642





Construction Plans Cover

AS SHOWN

SHEET NUMBER

\FTMS01\Drawings\2015\20150110-011\Utilities\Drawings\20150100-011 Cover.dwg (Cover) MNT Jan 10. 2020 - 8:16am

ABBREVIATIONS LEGEND ARD = Abandoned EX XX" FM = EXISTING FORCE MAIN & PIPE SIZE ΑF = Access Fasement XX" FM = PROPOSED FORCE MAIN & PIPE SIZE ALT = Alternate FX XX" WM = EXISTING POTABLE WATER MAIN & SIZE ARV = Air Release Valve XX" WM = PROPOSED WATER MAIN & PIPE SIZE XX" SS = PROPOSED SANITARY SEWER MAIN & SIZE ASPH = Asphalt EX XX" SS = EXISTING SANITARY SEWER MAIN & SIZE BLDG = Building XX" RCWM = PROPOSED RECLAIMED WATER MAIN & SIZE BTM = Bottom CATV EX XX" RCWM = EXISTING RECLAIMED WATER MAIN & SIZE = Cable Television CB = Catch Basin **>**4 = PROPOSED GATE VALVE CME = Corrugated Metal Pipe CO = Cleanout \bowtie = EX GATE VALVE DE = Drainage Easement = EXISITNG FIRE HYDRANT DIP = Ductile Iron Pipe = PROPOSED FIRE HYDRANT DR = Dimensional Ratio FOP = Edge of Pavement = PROPOSED AUTOMATIC AIR RELEASE VALVE ΕX = Existina $\neg \Box$ = PROPOSED REDUCER FF = Flared End Section EX. MH XX = EXISTING SANITARY MANHOLE FΗ = Fire Hydrant FI G = Flanged MH XX = PROPOSED SANITARY MANHOLE FΜ = Force Main = EXISTING PUMP STATION GV = Gate Valve HDPE = High Density Poly Ethylene = PROPOSED PLUG INV **P** = Invert = BENCHMARK IRR = Irrigation SB XX = SOIL BORING МН = Manhole ME = Mitered End Section = CATCH BASIN MJ = Mechanical Joint 9 = WOOD POWER POLE OC = On Center PAVT = Pavement -<>-= CONCRETE POWER POLE PKWY = Parkway = EXISTING WATER METER PS = Pump Station ΡV = Plug Valve $\overset{\circ}{\bigcirc}$ = EXISTING CLEANOUT PVC = Polyvinyl Chloride <u>a</u> RCWM = Reclaimed Water Main = PROPOSED SINGLE CLEANOUT RD = Road REQ = Required WM = PROPOSED WATER METER ROW = Right-of-way SAN = Sanitary = PROPOSED CONSTRUCTION SIGN SD = Storm Drain SPEC = Specification = PROPOSED SIDEWALK SS = Sanitary Sewer ST = Street = EXISTING SAN. SEWER AND WATER STA = Station MAIN OUTSIDE OF PAVEMENT TO BE STD = Standard GROUTED AND ABANDONED STM = Storm = EXISTING SAN. SEWER AND WATER TEL = Telephone MAIN UNDER PAVEMENT TO BE TYP Typical REMOVED UE = Utility Easement = PROPOSED JACK AND BORE WM = Water Main = TEMPORARY BLOW-OFF = FLOW ARROW = PROPOSED UTILITY ROLLDOWN = EXISTING MH TO BE REHABBED

GENERAL NOTES:

- ALL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF NAPLES STANDARD DETAILS AND SPECIFICATIONS. THE MINIMUM COVER FOR ALL PROPOSED UTILITIES SHALL BE 36" UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLANS.
- THE CONTRACTOR SHALL CONTACT THE CITY OF NAPLES GIS MANAGER TO OBTAIN COPIES OF THE GEODATA TEMPLATE (DATA BASE) TO PREPARE RECORD DRAWINGS.
- 3. THE CONTRACTOR IS REQUIRED TO MAINTAIN A "RED-LINE" "MARKUP" SET OF PLANS FOR THE PROJECT, CONVERTED AS THE CONTRACTOR'S AS-BUILT'S, AND TURN THEM OVER TO THE ENGINEER. "THE CITY SHALL BE PROVIDED WITH A COPY OF THESE DOCUMENTS."
- 4. CONTRACTOR SHALL NOT EXCEED 75 % OF THE MANUFACTURERS RECOMMENDED MAXIMUM DEFLECTION WHEN DEFLECTING PIPE. ENGINEER WILL DETERMINE MAXIMUM DEFLECTION AFTER PIPE MANUFACTURER IS SELECTED.
- 5. THE CONTRACTOR SHALL KEEP A RECORD OF ALL CHANGES AND MAINTAIN AN AS-BUILT PLAN, PRIOR TO FINAL ACCEPTANCE, THIS PLAN WILL BE FURNISHED TO THE ENGINEER. THE CONTRACTOR SHALL ALSO FURNISH THE ENGINEER WITH A STATEMENT THAT THE AS-BUILT PLAN REPRESENTS ALL CHANGES MADE AND THAT THE LOCATION OF UTILITY LINES SHOWN ARE WITHIN 2.
- 6. CONTRACTOR TO MAINTAIN EXISTING TRAFFIC/ACCESS, EXISTING DRAINAGE & EXISTING UTILITIES DURING CONSTRUCTION.
- 7. ALL FINAL FITTING AND VALVE LOCATIONS TO BE APPROVED IN THE FIELD BY THE OWNER/ENGINEER
- 8. THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES
- . THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION, AND SHALL HAVE ALL SERVICE LINES LOCATED AND FLAGGED PRIOR TO ANY EXCAVATION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL UTILITY LINES AND SERVICES DAMAGED DURING CONSTRUCTION, INCLUDING IRRIGATION LINES AND SERVICES. THE APPROPRIATE UTILITY SHALL BE NOTIFIED OF ALL DAMAGED LINES PRIOR TO REPAIR. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY UPON DAMAGE OF LINE.
- 11. ALL DRIVEWAYS, LANDSCAPING, SIGNS, GRASS, FENCING, ETC. SHALL BE RESTORED TO A CONDITION EQUIVALENT TO PRE-CONSTRUCTION CONDITION UNLESS OTHERWISE APPROVED BY THE ENGINEER AND CITY.
- 12. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD 1988).
- 13. THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- 14. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY REQUIRED PLAN DEVIATIONS.

- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A NPDES PERMIT FROM FDEP AND A DEWATERING PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AS REQUIRED. IF NECESSARY.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT AREA. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 600 SERIES. CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLAN TO OWNER/ENGINEER PRIOR TO CONSTRUCTION.
- 17. ALL UTILITY CONNECTIONS SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OF EACH INDIVIDUAL UTILITY LINE.
- 18. THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION, SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE OWNER/ENGINEER.
- 19. ALL FITTINGS SHALL BE RESTRAINED WITH MEGALUG OR APPROVED EQUAL.
- 20. ALL IN LINE VALVES SHALL BE MAIN SIZE MECHANICAL JOINT AND RESTRAINED WITH MOLDED FLANGE ADAPTOR WITH STEEL RETAINING RING AS SUPPLIED BY PIPE MANUFACTURER.
- 21. THE CONTRACTOR SHALL NOTIFY RESIDENCES AND BUSINESS AT LEAST 48 HOURS IN ADVANCE OF ANY DISRUPTION IN SERVICE, INCLUDING DRIVEWAY CUTS.
- 22. CONTRACTOR IS ADVISED TO VISIT CONSTRUCTION SITE PRIOR TO BIDDING PROJECT. BID IS FINAL AND ACKNOWLEDGES THAT CONTRACTOR IS FAMILIAR WITH EXISTING SITE CONDITIONS.
- 23. CONTRACTOR IS TO LOCATE AND VERIFY ALL SEWER SERVICES FROM HOMES OR BUSINESSES FOR MULTIPLE TAPS AT THE BUILDING ENVELOPE.
- 24. TEMPORARY CONNECTIONS MAY BE NECESSARY THROUGH OUT THE CONSTRUCTION TO MAINTAIN SEWER SERVICE. LOCATIONS WILL BE MADE IN COORDINATION WITH CITY STAFF.
- 25. CONTRACTORS SHALL PROVIDE COMPLETE LIST OF 24 HR EMERGENCY PHONE NUMBERS.
- 26. THE CITY OF NAPLES WILL SUPPLY, AND THE CONTRACTOR WILL INSTALL, THOMPSON DIESEL DRIVEN BYPASS PUMPS AND THE FOLLOWING, AS APPLICABLE: SUBMERSIBLE PUMPS, FLOAT RACKS, TRANSDUCER CONDUIT, PUMP BASES, GUIDE RAILS, AND GUIDE RAIL MOUNTS. THE CITY WILL SUPPLY AND INSTALL ALL ELECTRICAL COMPONENTS, INCLUDING CONTROL PANEL, RTU, ANTENNA, FPL TRANSFORMER, METER, POWER SERVICE, SENSORS AND CONTROL CABLES, CONDUIT AND JUNCTION BOXES TO/FROM BY-PASS PUMP, CONTROL PANEL, AND FLOATS AS APPLICABLE. ALL OTHER MATERIALS, INCLUDING PIPING, VALVES, FITTINGS, COMPONENTS, AND APPURTENANCES WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



NOTICE TO ALL CONTRACTORS

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CALL SUNSHINE 1-800-432-4770
STATE, COUNTES & CITIES ARE "NOT"
PART OF THE ONE CALL SYSTEM.
THEY MUST BE CALLED INDIVIDUALLY.

STATE OF FLORIDA DOT ALL INTERSTATE RIGHT-OF-WAY HIGHMAST LIGHTING 7-DAY NOTICE REQUIRED 239-656-7811 239-656-7742 FAX

SEPARATION OF WATER AND SEWER LINES HORIZONTAL SEPARATION OF PIPELINES Minimum Separation Distance Between The Outside Of The Water Main And The Outside Of Any Existing Or Proposed Three feet Storm sewer, stormwater force main, or reclaimed water main Three feet, and preferably ten feet /acuum-type sanitary sewer ALTERNATE CONSTRUCTION Gravity— or pressure—type sanitary sewer, wastewater force main or reclaimed water main not regulated under part III of chapter 62—610, F.A.C. Six feet, and preferably ten feet Where an underground water main is being laid less than the required minimum horizontal distance from another pipeline and where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline The minimum horizontal separation distance between water mains and gravity—type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer. Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline; Ten feet "On-site sewage treatment and disposal system 2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline. VERTICAL SEPARATION OF PIPELINES New Or Relocated, Underground Water Mains Crossing Any Existing Or Proposed Where an underground water main is being laid less than three feet horizontally from anothe pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline (Outside To The Outside) Six inches, and preferably 12 inches above Gravity— or vacuum—type sanitary sewer or storm sewer Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength a least equal to that of 0.25—inch—thick ductile iron pipe) or concrete encasement at least four inches thick for the water main; and 12 inches below 2. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the other pipeline if it is new and is conveying wastewater or reclaimed water. Pressure—type sanitary sewer, wastewater, stormwater force main, or pipeline conveying reclaimed water main One full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline.

Alternatively, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum—type sanitary sewers, storm sewers, stormwater force mains, or reclaimed water mains, and at least six feet from all joints in gravity— or pressure—type sanitary sewers, wastewater force mains, or reclaimed water mains. JOHNSON ENGINEERIN

JOHNSON ENGINEERING, INC. 2122 JOHNSON STREET P.O. BOX 1550 FORT MYERS, FLORIDA 33902-1550 PHONE: (239) 334-0046 FAX: (239) 334-3661 E.B. #642 & L.B. #642

MARK WAYNE THOMAS, PI FL License No. 86454



Backup Diesel Pumps Lift Station Improvements City of Naples



SCALE: AS SHOWN

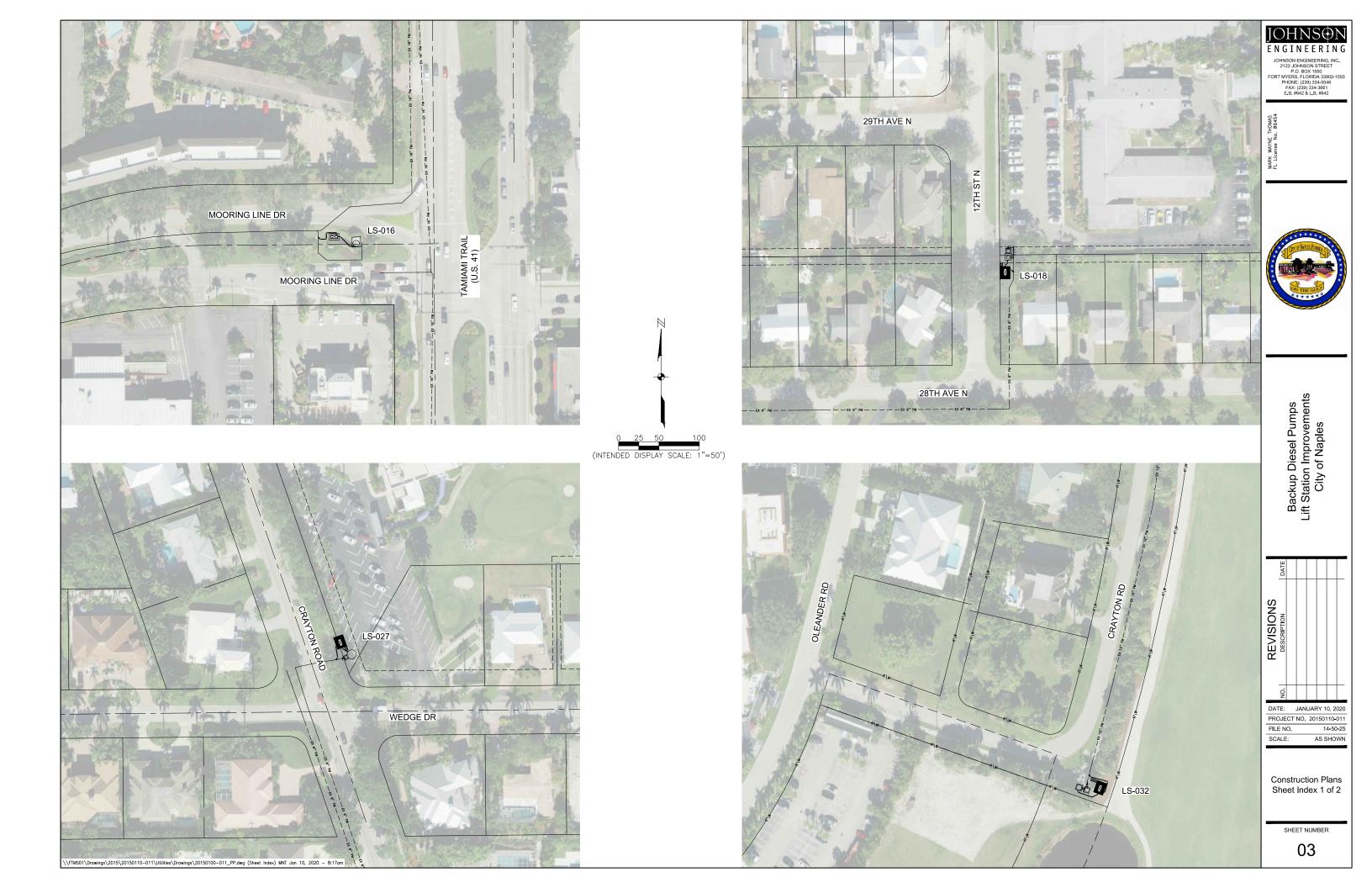
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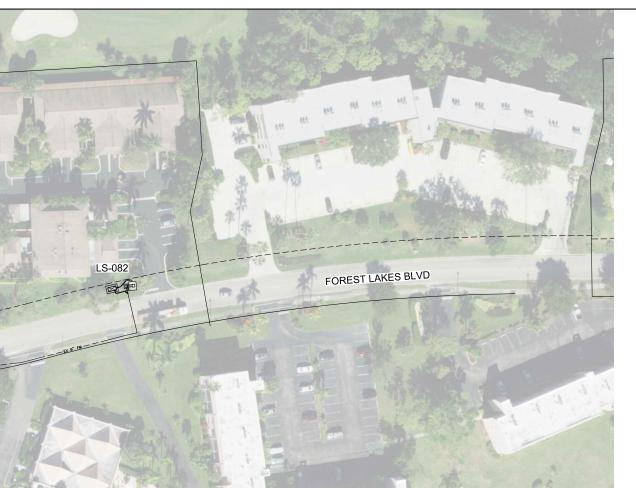
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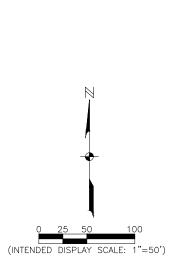
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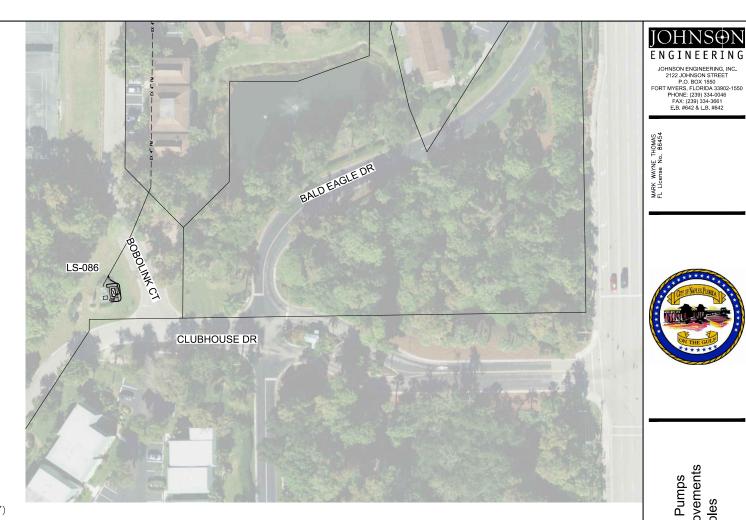
Construction Plans Notes & Legends

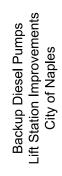
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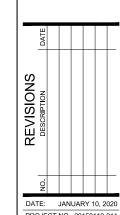












PROJECT NO. 20150110-011 FILE NO. 14-50-25

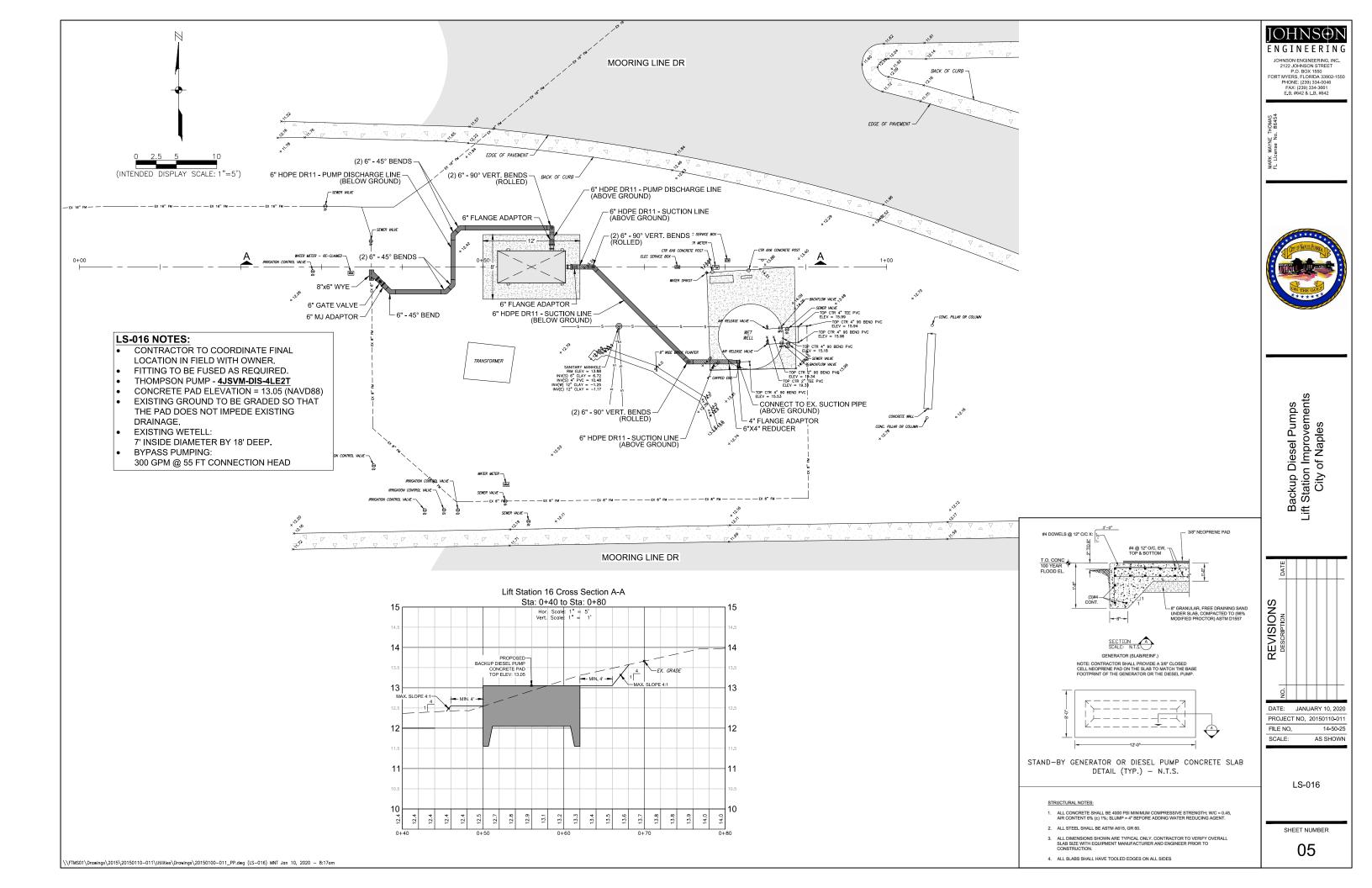
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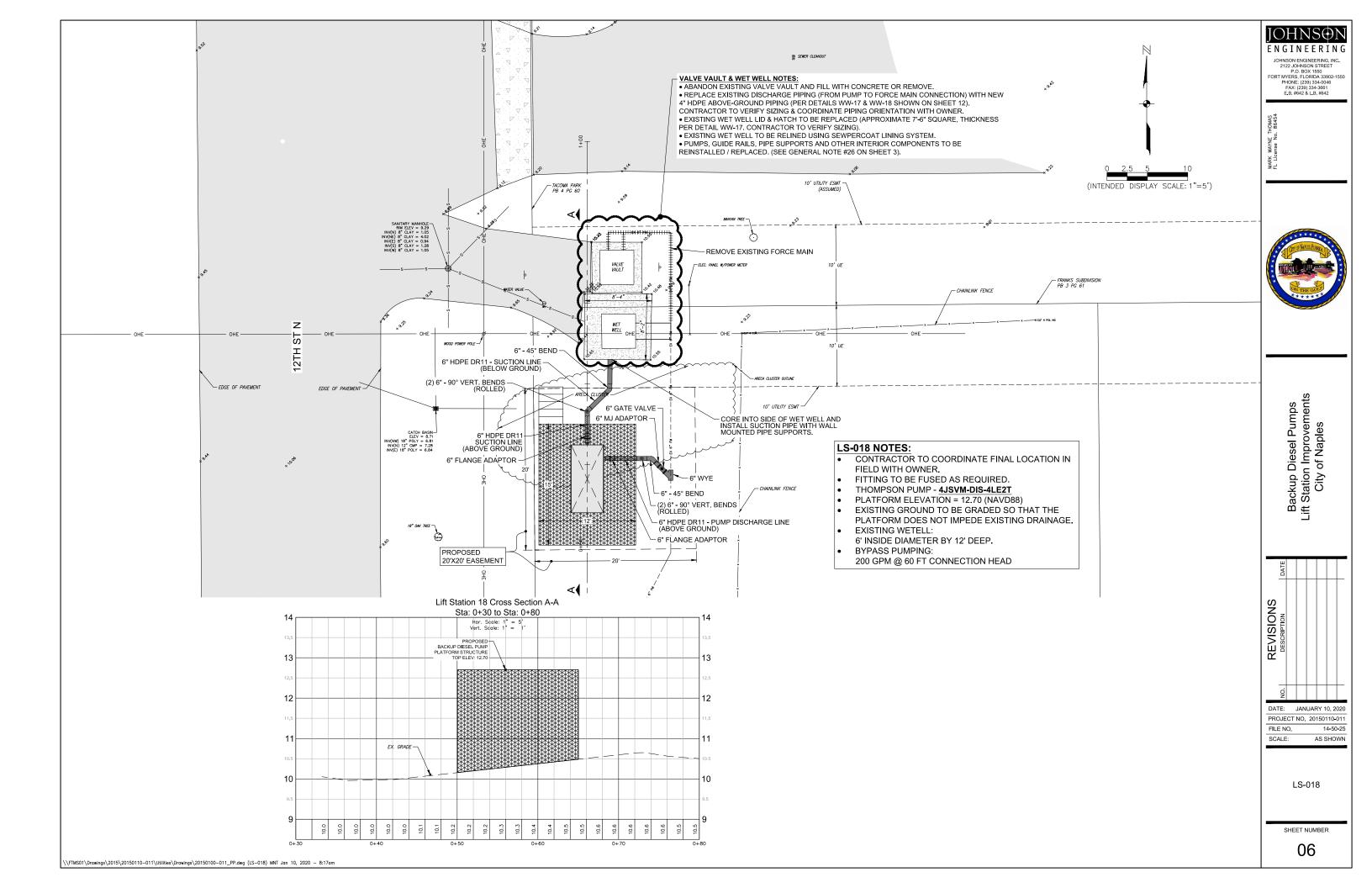
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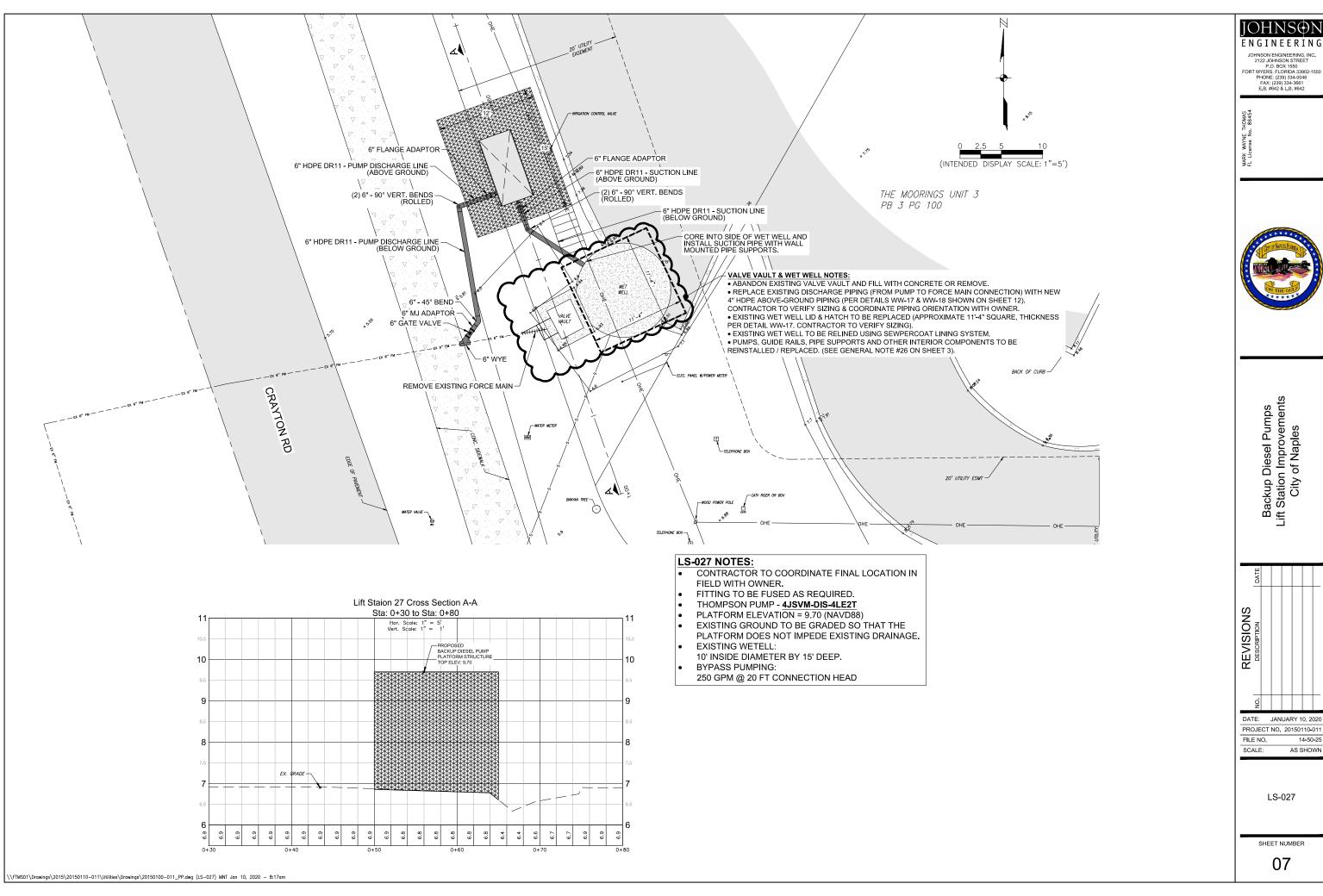
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DAVIS BLVD





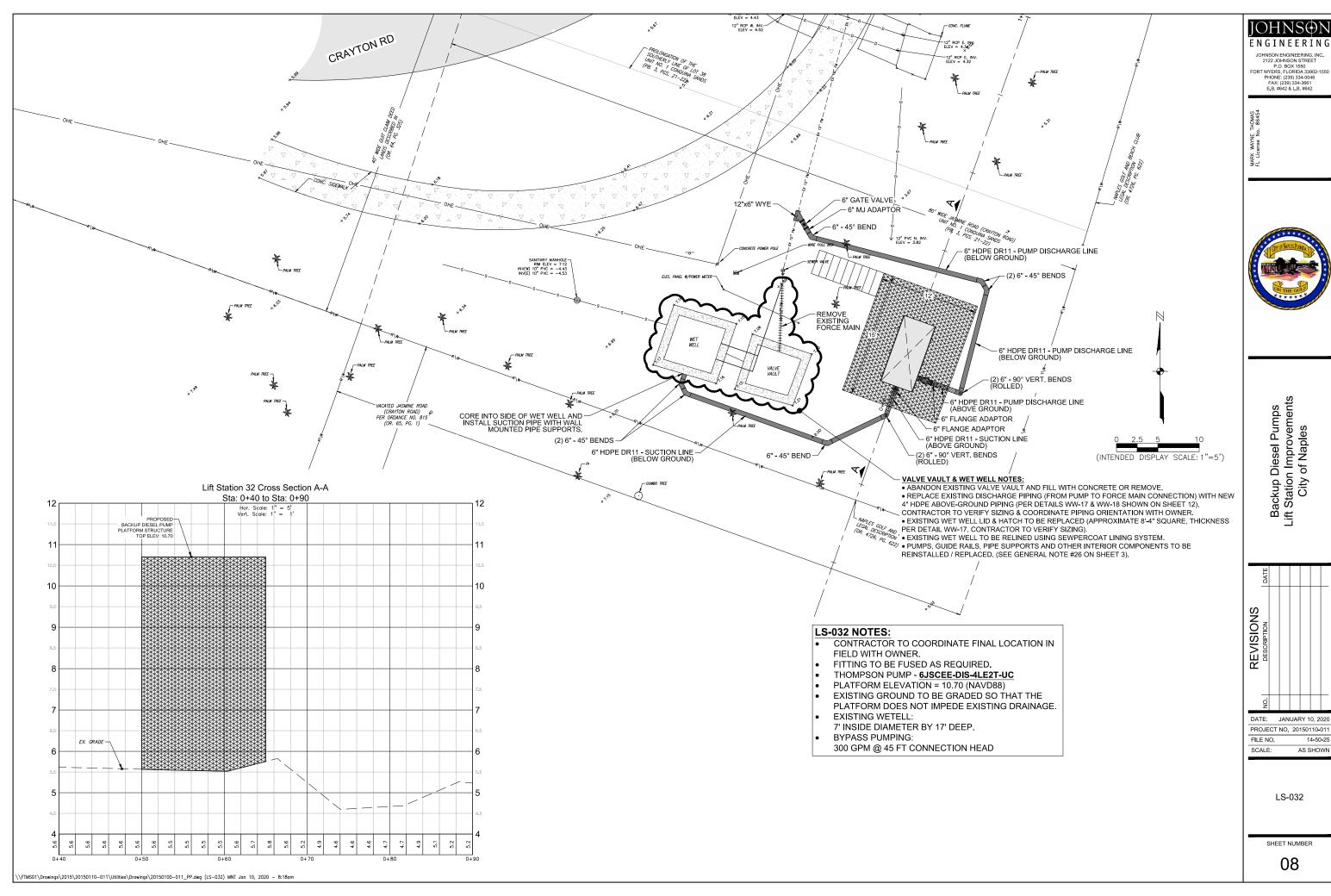




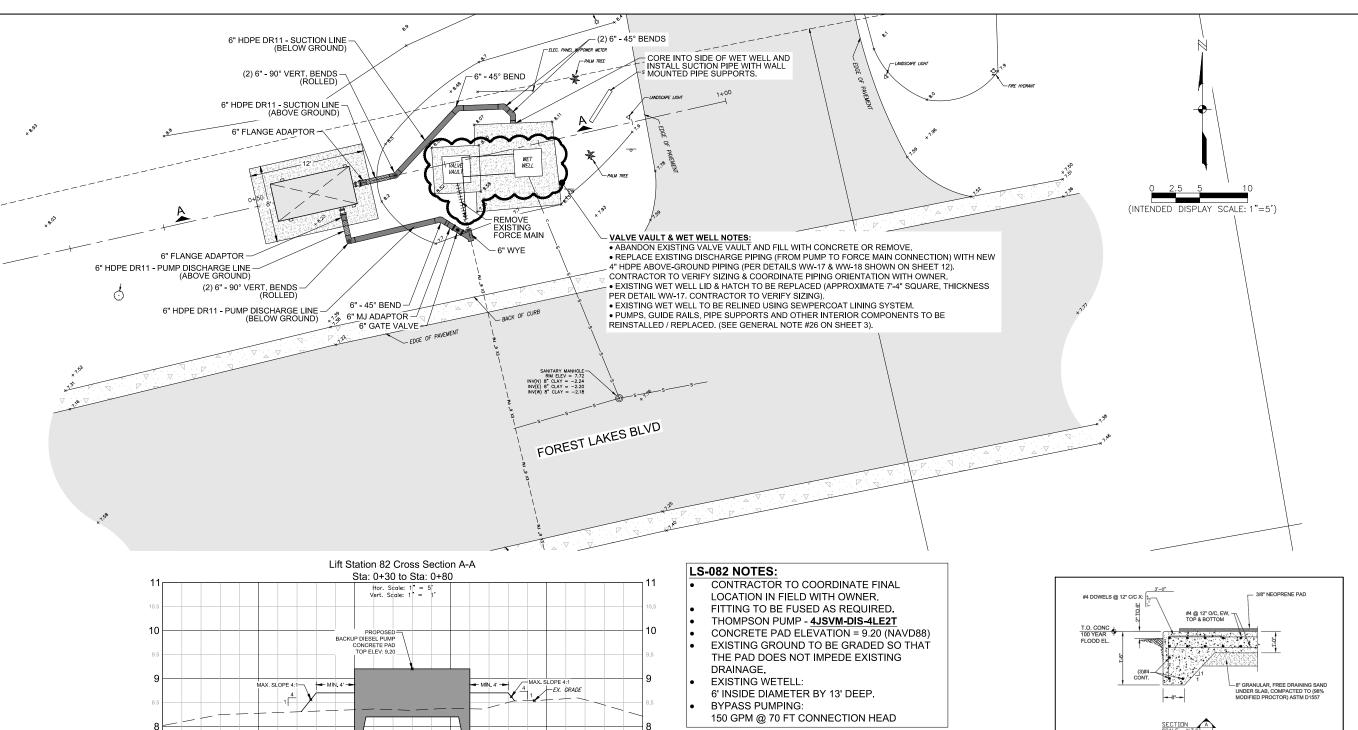


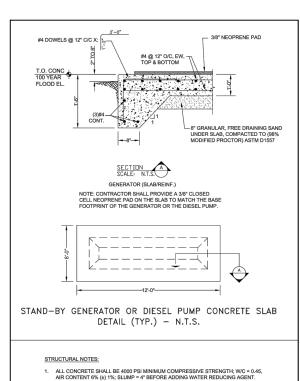
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AS SHOWN









3. ALL DIMENSIONS SHOWN ARE TYPICAL ONLY. CONTRACTOR TO VERIFY OVERALI SLAB SIZE WITH EQUIPMENT MANUFACTURER AND ENGINEER PRIOR TO CONSTRUCTION.

2. ALL STEEL SHALL BE ASTM A615, GR 60.

4. ALL SLABS SHALL HAVE TOOLED EDGES ON ALL SIDES



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Backup Diesel Pumps Lift Station Improvements City of Naples

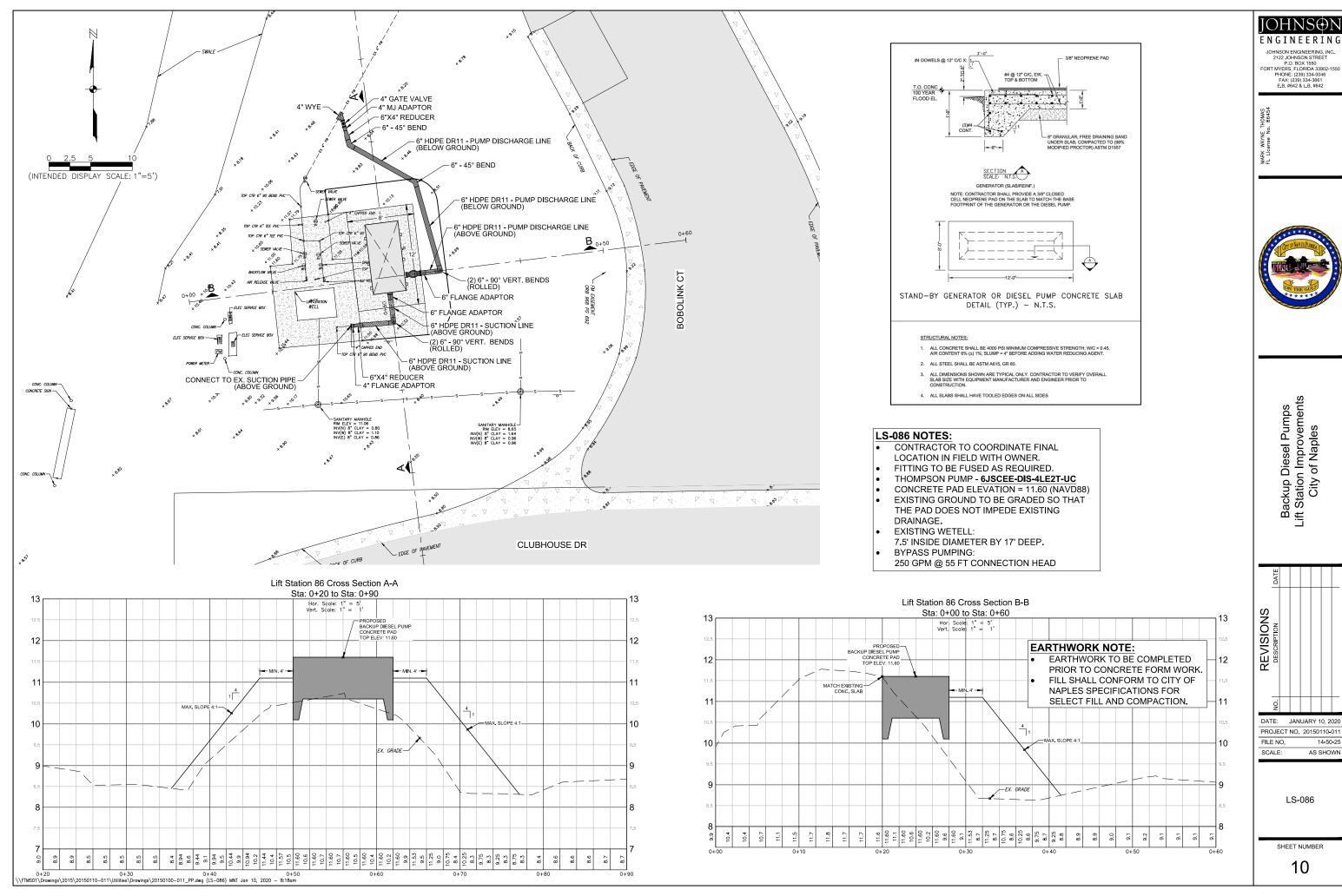


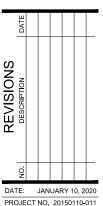
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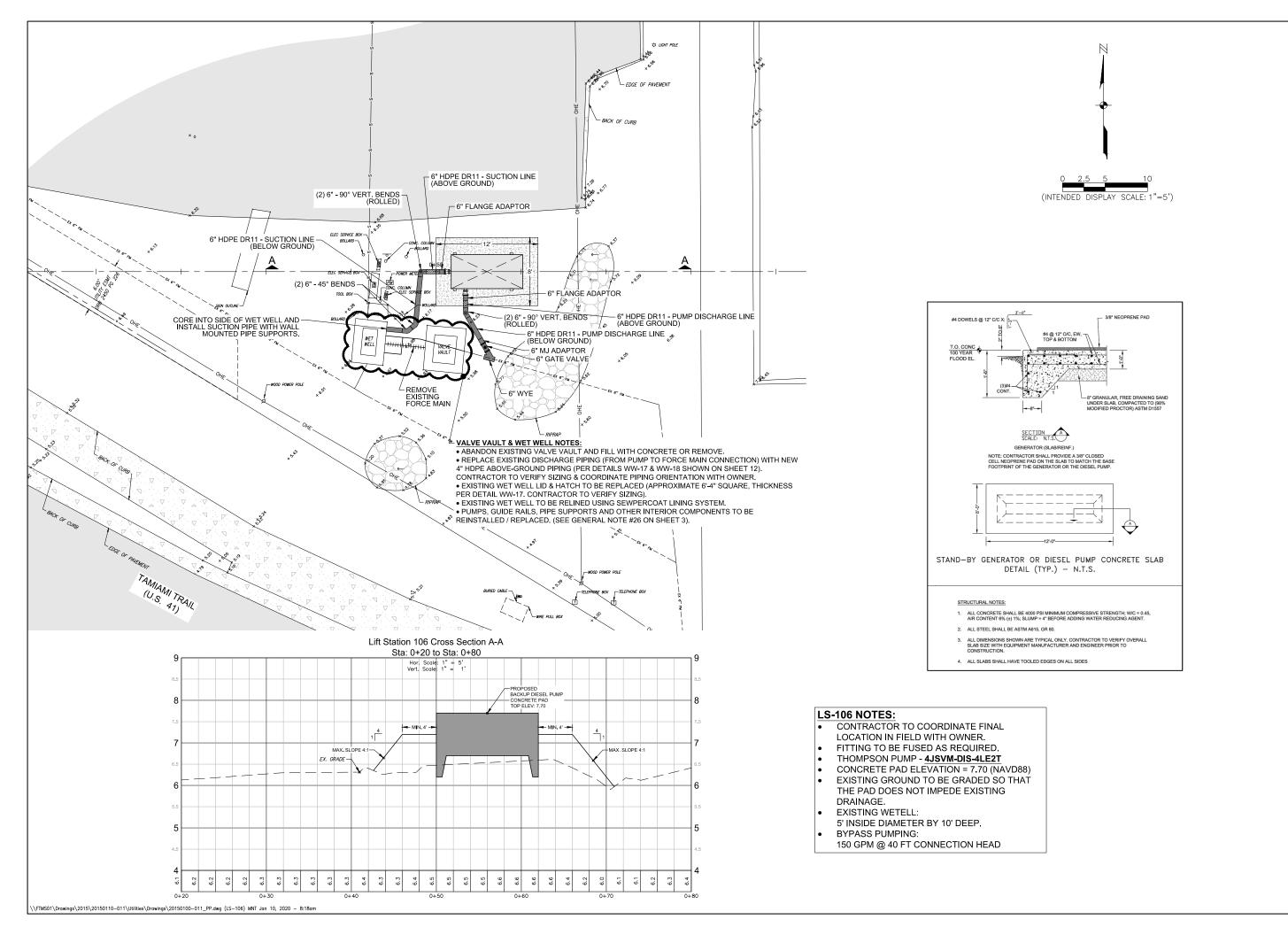
LS-082

SHEET NUMBER





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Backup Diesel Pumps Lift Station Improvements City of Naples

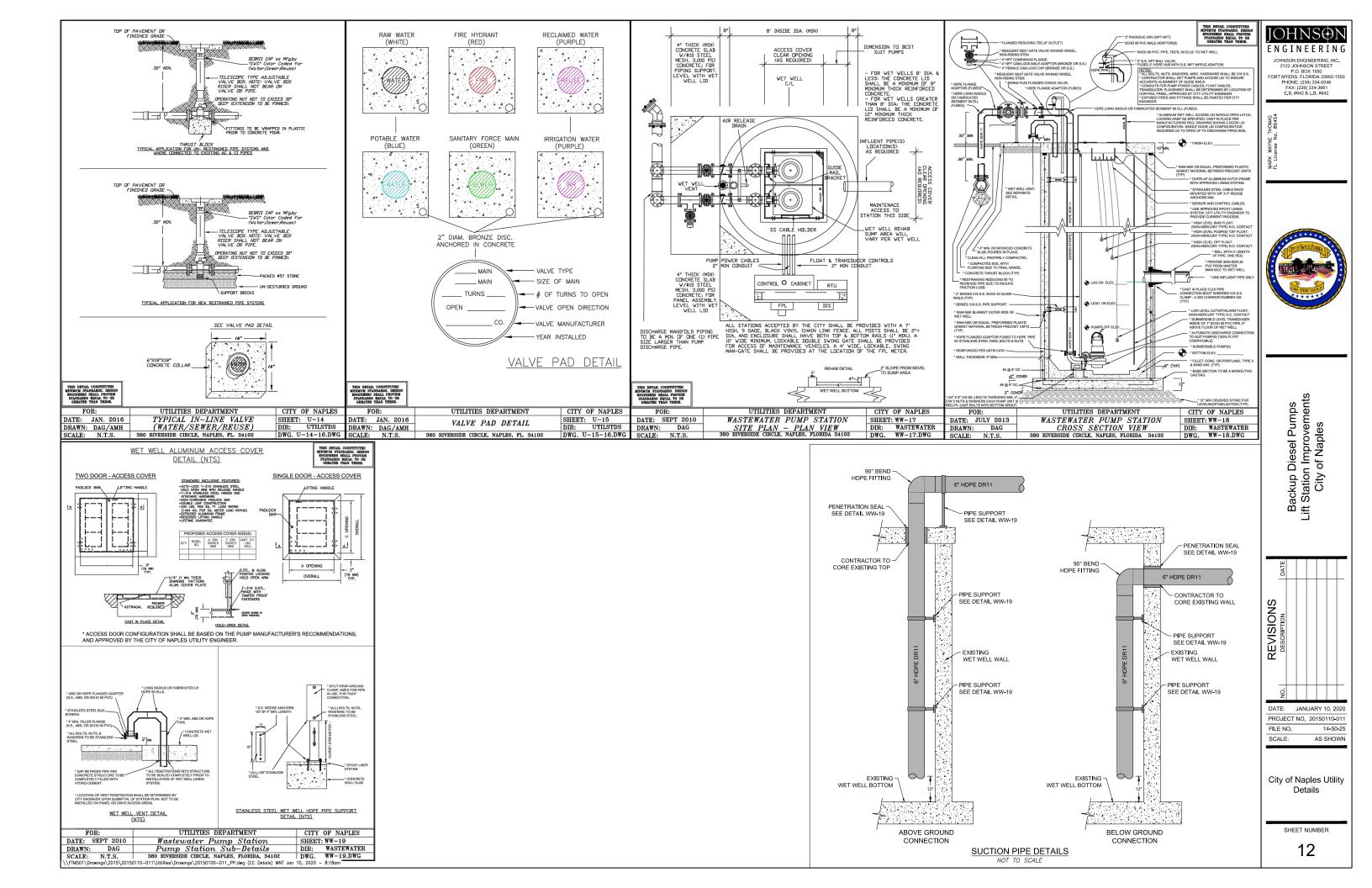


PROJECT NO. 20150110-011 FILE NO. 14-50-25

SCALE: AS SHOWN

LS-106

SHEET NUMBER



GENERAL: DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT AS OTHERWISE INDICATED, ADAPT REQUIREMENTS OF DETAILS. SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

CODE REQUIREMENTS: THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2017 6th EDITION OF THE FLORIDA BUILDING CODE. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. ADDITIONS ARE IN COMPLIANCE WITH THE 2017 EDITION OF THE FLORIDA EXISTING BUILDING CODE.

DESIGN CRITERIA: DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2017 FLORIDA BUILDING CODE.

WIND SPEED 170 MPH PER CHAPTER 26 ASCE 7-10

132 MPH NOMINAL

RISK CATEGORY II **EXPOSURE** С

INTERNAL PRESSURE COEFF+/- 0.18 ENCLOSED WALL PRESSURE +/- 60 PSF (170 MPH)

FOUNDATIONS: FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF FOR SILTY SAND AND GRAVELS. FOUNDATIONS SHALL BEAR ON COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL. IF QUESTIONABLE SOILS OR POTENTIALLY UNSTABLE CONDITIONS ARE ENCOUNTERED. A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO INVESTIGATE AND PROVIDE RECOMMENDATIONS.

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING:

CONCRETE MIX DESIGNS, CONCRETE AND MASONRY REINFORCING.

SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

CONCRETE: REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39. AND SHALL BE AS FOLLOWS:

3000 PSI FOUNDATIONS/SLAB ON GRADE

CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE, IF USED, SHALL CONFORM TO ASTM C494 AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494. TYPE F OR G. MAY BE USED IN CONCRETE MIXES. PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

FOOTINGS 3" BOTTOM AND SIDES, 2" TOP

SLABS ON GRADE: CHAIR WIRE FABRIC DURING CONCRETE PLACEMENT TO ENSURE PROPER POSITION IN SLAB. PROVIDE (1) #5 X 4'-0" DIAGONAL BARS AT SLAB RE-ENTRANT CORNERS.

FOR 8" THICK SLABS ON GRADE, PROVIDE 6X6 W2.9XW2.9 WELDED WIRE FABRIC PLACED 2" BELOW TOP OF SLAB OR 3 POUNDS PER CUBIC YARD OF MACRO SYNTHETIC FIBERS (FORTA FERRO OR EQUAL). UNLESS NOTED OTHERWISE.

MASONRY WALLS: MASONRY UNITS SHALL MEET ASTM C90, TYPE 2. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF I'm= 1500. MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C270. GROUT SHALL BE 2000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C476. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS AND AGGREGATE TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO CAUSE THE MIXTURE TO FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. ALL CELLS CONTAINING VERTICAL BARS, BOND BEAMS, AND ALL CELLS BELOW GRADE SHALL BE FILLED WITH GROUT.

PROVIDE REINFORCING BARS AT CORNERS. PROVIDE HOOKED DOWELS INTO FOOTINGS AND STRUCTURE ABOVE AND/OR BELOW TO PROVIDE CONTINUITY. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O WAL OR ENGINEER-APPROVED EQUAL) AT 16" O.C. REINFORCING LAPS TO BE 48 BAR DIAMETERS.

Digitally signed by Shawn Anderson Shawn Anderson OU=A01410D0000016DC2C0894400000FF0, O=SELECT STRUCTURAL, C=US Date: 2019.10.14 21:26:50-04'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE.

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FLORIDA PLATFORM OUNTY PUMP $\ddot{\circ}$ **TYPICAL** COLLIER

DATE: 10-04-19

VARIES SCALE:

DRAWN BY: MPM

S0

SCALE: VARIES
DRAWN BY: MPM

S1

FOUNDATION PLAN

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

BB1

T/PLATFORM
PER CIVIL DWGS

DIESEL PUMP
6000#

BB1

PLATFORM FRAMING PLAN

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

FOUNDATION PLAN NOTES:

- 1. SEE SHEET S0 FOR GENERAL STRUCTURAL NOTES.
- 2. VERIFY / COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH CIVIL DRAWINGS BEFORE COMMENCING CONSTRUCTION. SEE CIVIL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- 3. FX INDICATES FOOTING TYPE, SEE SCHEDULE ON THIS SHEET.
- 4. TOP OF FOOTING (-)1'-4" U.N.O.
- 5. INDICATES 8" CMU WALL W/ AT #5 AT 32" OC MAX AND AT CORNERS IN GROUT FILLED CELLS. REFER TO CIVIL DRAWINGS FOR REQUIRED PLATFORM ELEVATION AT EACH SITE. MAINTAIN BLOCK COURSING TO ACHIEVE REQUIRED HEIGHT.
- 6. CONTRACTOR TO COORDINATE LOCATION AND DIMENSION OF STAIRS WITH OWNER.
- 7. USE CLEAN STRUCTURAL FILL. PLACE IN UNIFORM LAYERS NOT GREATER THAN 9" IN LOOSE THICKNESS. THOROUGHLY COMPACT IN PLACE WITH SUITABLE MECHANICAL OR PNEUMATIC TOOLS TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY BY ASTM D 1557.

CONCRETE FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING
F20W	2'-0" x CONT.	1'-0"	(3) #5 CONTINUOUS

PLATFORM FRAMING PLAN NOTES:

- SEE SHEET S0 FOR GENERAL STRUCTURAL NOTES.
- SEE CIVIL DRAWINGS FOR SLOPES AND DROPS.
- 3. VERIFY / COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH CIVIL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
- 4. <u>/ S1</u>

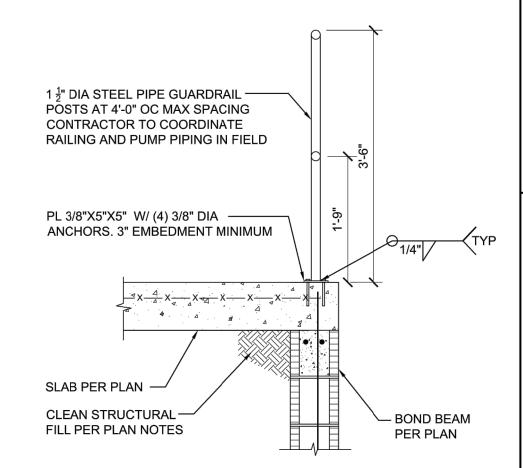
INDICATES SPAN DIRECTION OF 8" SLAB ON FILL W/ 6X6 W2.9xW2.9 W.W.F. OR FIBERMESH. REFER TO CIVIL DRAWINGS FOR REQUIRED ELEVATION AT EACH SITE.

BEAM SCHEDULE

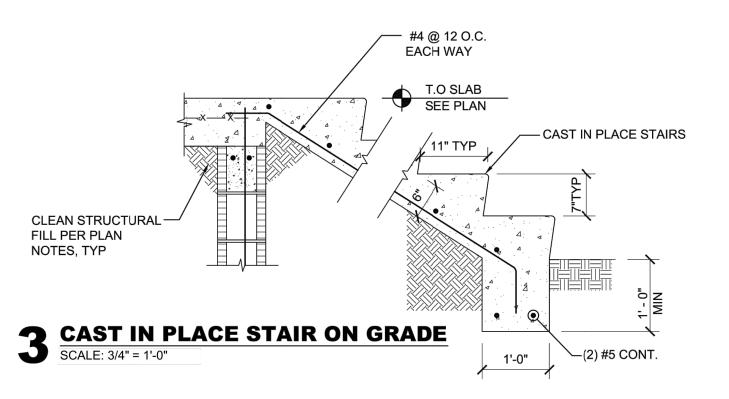
TYPE		·	REINFORCING		
MARK	WIDTH	DEPTH	TOP	MID	ВОТ
BB1	8"	8"	(2) #5	-	-

CMU FOUNDATION DETAIL

SCALE: 3/4" = 1'-0"



2 SLAB AT BOND BEAM
SCALE: 3/4" = 1'-0"



TYPICAL PUMP PLATFORM COLLIER COUNTY, FLORIDA

PROJECT:

DATE: 10-04-19

SCALE: VARIES
DRAWN BY: MPM

S2