COLLIER COUNTY PUBLIC UTILITIES GOODLAND PUMP STATION IMPROVEMENTS

1600 CHEVROLET WAY, SUITE 102 ESTERO, FL 33928

TEL: (239) 390-1467 FAX: (239) 390-1769



www.tetratech.com



PROJECT LOCATION:

2559 SAN MARCO RD. SECTION 13, TOWNSHIP 52, RANGE 26

CLIENT INFORMATION:

COLLIER COUNTY PUBLIC UTILITIES 3339 TAMIAMI TRAIL EAST, SUITE 301 NAPLES, FL 34112

Tt PROJECT No.:

200-08486-22002

CLIENT PROJECT No .:

70276.2

PROJECT DESCRIPTION / NOTES:

UPGRADES TO THE GOODLAND PUMP STATION.

ISSUED:

BID SET - AUGUST 2025

VICINITY MAP:



Collier County Collier County Public Utilities

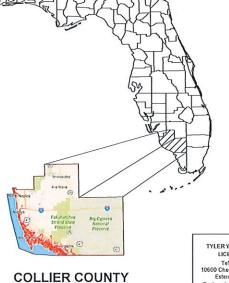
PREPARED FOR

3339 TAMIAMI TRAIL E., SUITE 303 NAPLES, FLORIDA 34112

BOARD OF COUNTY COMMISSIONERS

RICK LOCASTRO CHRIS HALL BURT L. SAUNDERS DAN KOWAL WILLIAM L. MCDANIEL, JR. DISTRICT 1 DISTRICT 2 (CHAIRMAN) **DISTRICT 3 (VICE CHAIRMAN)**

DISTRICT 4 DISTRICT 5



Tetra Tech Inc. 10600 Chevrolet Way, Ste. 10 Estero, Florida 3392

- CONTRACTOR SHALL SUBMIT FOR REVIEW A DETAILED SHUT DOWN AND SEQUENCING PLAN TO THE ENGINEER AND THE COUNTY FOR REVIEW AND APPROVAL. ALL SHUT DOWNS WILL REQUIRE A MINIMUM OF SEVEN (7) DAYS ADVANCED NOTICE.
- 2. CONTRACTOR IS HEREBY ADVISED THAT THE UTILITIES SHOWN ON THESE PLANS ARE BASED ON UMITED RECORD DRAWING INFORMATION WHICH WAS ACQUIRED DURING THE DESIGN PHASE OF THIS PROJECT, A COMPREHENSIVE SET OF RECORD DRAWINGS FOR THIS SITE WAS NOT MADE AWAILABLE TO TETRA TECH AND ADDITIONAL ABOVE AND BELD WOOD ONLY THESE. STRUCTURES, ETC. MAY EXIST BEYOND WHAT IS SHOWN ON THESE DRAWINGS, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A THOROUGH SHE INSTRUCTION IN ORDER TO FAMILIARIZE HIMSELY WITH THE SITE CONDITIONS. IT THE CONTRACTOR SHESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES DURING CONSTRUCTION. IF THE EXISTING UTILITIES DEFER FROM THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND COLLIER COUNTY PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE COLLIER COUNTY UTILITY STANDARDS MANUAL WHICH CAN BE FOUND AT
- 4. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (811) TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.
- 5. POTABLE WATER PIPELINES SHALL BE SEPARATED FROM WASTEWATER LINES AND FOR STORMMATER LINES BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18 INCHES AND A HORIZONTAL DISTANCE OF 10 FEET. THE 18 INCHES MINIMUM VERTICAL SEPARATION DISTANCE DOES NOT APPLY TO SEPARATIONS OF SEVERA LATERIALS, AND POTABLE WATER PIPELINE INSTALLATIONS, 57 TSONE SHALL BE UTILIZED FOR SEPARATION BETWEEN WASTEWATER LINES AND STORMMATER LINES, NON-POTABLE IRRIGATION WATER PIPELINES INVO INCHES AND LARGES SHALL BE SEPARATED FROM POTABLE WATER MINIS, WASTEWATER LINES AND LORS STORMMATER LINES BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18 INCHES AND A HORIZONTAL DISTANCE OF 18 INCHES AND A HORIZONTAL DISTANCE OF THE FEET, WASTEWATER LINES SHALL BE SEPARATED FROM STORMMATER LINES BY A MINIMUM CLEAR VERTICAL LIPELINE CROSSINGS WITH VERTICAL CLEARANCE LESS THAN 18 INCHES SHALL BE USING A FOLL 20 FOOT LENGTH OF THICKNESS CLASS 200 ANWA C900 PVC PIPE, CLASS 250 ANWA C900 PVC PIPE, CHES CHARLOS SHALL BE AND A HORIZONTAL DISTANCE OF AND TO A HEIGHT SIX INCHES ABOVE THE CROWN OF THE PIPE. POTABLE WATER, NON-POTABLE IRRIGATION WATER AND WASTEWATER PIPELINES SHALL BE ADDRAFTER AND WASTEWATER PIPELINES AND A TO MASTER AND TO A HEIGHT SIX INCHES ABOVE THE CROWN OF THE PIPE, POTABLE WATER, NON-POTABLE IRRIGATION WATER AND WASTEWATER PIPELINES SHALL BE ACKENTER AND AND TO A HEIGHT SIX INCHES AND AND THE CROWN OF THE PIPE, POTABLE WATER, NON-POTABLE IRRIGATION WATER AND WASTEWATER PIPELINES SHALL BE SEPARATED FROM TELEPHONE, POWER, CABLE AND GAS SEEVESMINES AND ANY OTHER UNDERGROUND UTILITIES BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18 INCHES AND HORIZONTAL DISTANCE OF FIVE FEET.
- 6. ALL PIPING SHALL HAVE A MINIMUM 30' AND A MAXIMUM OF 48' OF COVER
- 7. DEWATERING MAY BE REQUIRED IN SOME AREAS TO ACHIEVE THE NECESSARY EXCAVATION AND SUBSEQUENT CONSTRUCTION, BACKFILLING AND COMPACTING, NO EXTRA COMPENSATION FOR DEWATERING WILL BE ALLOWED, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY DEWATERING PERMIT(S). ALL DEWATERING SHALL BEIN ACCORDANCE WITH COLLIER COUNTY DIVISION 31 OF THE SPECIFICATIONS, WETLAND AREAS SHALL NOT RECEIVE ANY REMOVED WATER.
- 8. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIARIZED WITH THE OVERALL SITE CONDITION AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF ROCK, UNSUITABLE FILL MATERIALS, EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE ALL OF WHICH WILL AFFECT HIS PRICING, ANY DELAY, INCONVENIENCE OF EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL AND THE CONTRACTOR MAY HAVE TO BRING IN MATERIALS AT NO EXTRA COST FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
- 9. CONTRACTOR SHALL COMPLY WITH ALL ASPECTS OF THE COLLIER COUNTY NOISE ORDINANCE
- 10.IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY EXISTING LANDSCAPING (I.E. SOD, BUSHES, TREES, ETC.), AND FENCING THAT MAY HAVE BEEN REMOVED OR HAS BEEN DAMAGED DURING CONSTRUCTION, CONTRACTOR TO REPLACE OR REPAIR AND DAMAGED PROPERTY OR IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.
- 11, THE CONTRACTOR SHALL NOTIFY COLLIER COUNTY UTILITIES DEPARTMENT AT LEAST THREE FULL WORK DAYS IN ADVANCE OF ALL PLANNED SERVICE INTERRUPTIONS, AND RECEIVE COUNTY PROJECT MANAGER'S APPROVAL BEFORE PROCEEDING WITH PL
- 12. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER OF RECORD AND COUNTY PROJECT MANAGER WRITTEN APPROVAL FOR
- 13, ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE
- 14. WORK AREAS ARE TO BE CLEANED ON A DAILY BASIS.
- 15.ALL DISTURBED AREAS SHALL BE RETURNED TO PRE-EXISTING CONDITION OF SAME TYPE AND QUALITY.
- 16. SOD REPLACEMENT TO MATCH PRE-PROJECT TYPE.
- 17. ACCESS ONTO EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS, RESPECTIVELY. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES ON PUBLIC OR PRIVATE ROADWAYS
- 18 ALL DEFECTIVE WORK NOT ACCEPTED BY THE ENGINEER, OR BY THE OWNERS REPRESENTATIVE, OR BY ANY GOVERNMENT PERMITTING AGENCY SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- 19. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE PUBLIC HEALTH AND ENSURE JOB SAFETY. THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY & HEALTH AGENCY (OSHA) STANDARDS AND FEDERAL STATE AND LOCAL GOVERNMENT SAFETY REQUIREMENTS.
- 20.THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR, AND REPAIR OR REPLACE, ALL DAMAGES TO LANDSCAPING, BUILDINGS, TELEPHONE OR OTHER CABLES, SEWER AND WATER PIPES, PAVEMENT, DRIVEWAYS, WALLS, SPRINKLER SYSTEMS, SURVEY MARKERS, OR OTHER STRUCTURES WHICH MAY BE ENCOUNTERED WHETHER OR NOT SHOWN ON THE PLANS. CONTRACTOR TO REPORT ANY DAMAGES TO EXISTING ITEMS TO REMAIN PRIOR TO BEGINNING CONSTRUCTION
- 21.ANY POTABLE WATER COMPONENTS TAKEN OUT OF SERVICE DURING CONSTRUCTION, INCLUDING THE POTABLE WATER STORAGE TANKS, SHALL BE CLEANED AND DISINFECTED BY THE CONTRACTOR PRIOR TO BEING RETURNED TO SERVICE

STRUCTURAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, 8TH EDITION
- 2. SEE ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 4000 PSI, MISCELLANEOUS CONCRETE FOR SIDEWALKS, VALVE BOX PADS, ETC. MAY UTILIZE 3000 PSI CONCRETE.
- 4. WELDED SMOOTH WIRE FABRIC (WWF) SHALL BE IN ACCORDANCE WITH ASTM A185 (SHEETS ONLY, ROLL FABRIC NOT ALLOWED).
- 5. ALL CONCRETE SLABS SHALL HAVE CHAMFERED EDGES AND BROOM FINISHES UNLESS OTHERWISE SHOWN

NOTES FROM SURVEYOR

- BEARINGS SHOWN HEREON ARE BASED ON THE STATE PLANE COORDINATE SYSTEM ESTABLISHED BY THE NATIONAL GEODETIC SURVEY FOR FLORIDA WEST ZONE, 1983 DATUM WITH 2011 ADJUSTMENT OBTAINED UTILIZING RTK GPS OBSERVATIONS ON THE FDOT NETWORK AND REFER TO THE NORTH LINE OF TRACT 'B', MARCO BEACH UNIT TWENTY, PLAT BOOK 6A, PAGES 16A THROUGH 18A, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA AS BEING S 87°42'15" W.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF ABSTRACT OF TITLE AND MAY BE SUBJECT TO EASEMENTS. RESERVATIONS
- 3. ELEVATIONS SHOWN HEREON ARE IN FEET AND ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. ELEVATIONS WERE
- DERIVED BY DIFFERENTIAL LEVELING FROM NGS BENCHMARK 872-4979 F. HAVING A PUBLISHED FLEVATION OF 2.96 FEET THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE AE, HAVING A BASE FLOOD ELEVATION OF 9.0' NAVD88, PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP #12021C 0842 H, DATED 16 MAY 2012. FLOOD LINES SHOWN HEREON WERE OBTAINED FROM A COLLIER COUNTY GIS FILE AND ARE ASSUMED TO BE APPROXIMATE.
- CERTAIN FEATURES REPRESENTED BY SYMBOLS MAY NOT BE SHOWN AT THEIR TRUE LOCATION AND/OR SCALE IN ORDER TO BE ABLE TO DEPICT THEM ON THIS MAP.
- 6. DIMENSIONS SHOWN HEREON ARE IN U.S. SURVEY FEET AND DECIMALS THEREOF.
- THIS SURVEY DOES NOT ADDRESS ANY ENVIRONMENTAL CONCERNS, ENDANGERED WILDLIFE OR JURISDICTIONAL WETLANDS, IF ANY, EXCEPT AS SHOWN ON THIS SURVEY
- THIS CERTIFICATION IS ONLY FOR THE LANDS DESCRIBED HEREON. IT IS NOT A CERTIFICATION OF TITLE, ZONING, SETBACKS, OR
- 9. THIS SURVEY IS NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR THE DIGITAL SIGNATURE AND DIGITAL SEAL OF A LICENSED FLORIDA SURVEYOR AND MAPPER, NO ADDITIONS OR DELETIONS TO THIS SURVEY MAP ARE PERMITTED WITHOUT THE ESSED WRITTEN CONSENT OF THE SIGNING PART
- 10. UNLESS OTHERWISE NOTED, BELOW GROUND UTILITIES AND FOUNDATIONS WERE NOT LOCATED FOR THE PURPOSES OF THIS
- 11. BY SIGNING BELOW I CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECTION AND THAT IT MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 5J-17.051, F.A.C, PURSUANT TO CHAPTER
- 12. UTILITY MARKINGS AND STUB OUTS SHOWN HEREON WERE PROVIDED BY OTHERS.
- 13. DATE OF LAST FIELD WORK: 4/18/2022.

PROPERTY DESCRIPTION (PER OFFICIAL RECORDS BOOK 882, PAGE 1109)

COMMENCE AT THE INTERSECTION OF THE WESTERLY END OF THE MARCO ISLAND BRIDGE WITH THE CENTERLINE OF CONSTRUCTION OF STATE ROAD 92: THENCE RUN N 81°42'23" F A DISTANCE OF 241.26 FEET ALONG SAID CENTERLINE; THENCE SO 22/273" E A DISTANCE OF 69.19
FEET TO POINT 'A' ON THE NORTHERLY CORNER OF THE MOST
EASTERLY WALL OF THE TIMBER WINGWALL AND THE POINT OF

THENCE CONTINUE S 02°2737" E A DISTANCE OF 25 FEET, MORE OR LESS, TO POINT "B"; THENCE S39°09'15" W A DISTANCE OF 115 FEET, MORE OR LESS, ALONG SAID WINGWALL TO POINT "C"; THENCE S87'32'23" W A DISTANCE OF 185 FEET, MORE OR LESS, TO A POINT ON THE FASTERLY RIGHT-OF-WAY LINE OF THE ACCESS ROAD, THENCE NORTH-EASTERLY A
DISTANCE OF 155 FEET, MORE OR LESS, ALONG SAID EASTERLY RIGHT-OF-WAY LINE TO A POINT ON A LINE 25 FEET SOUTHERLY OF AND PARALLEL TO THE SAID CENTERLINE OF CONSTRUCTION: THENCE N 81'4223' E A DISTANCE OF 150 FEET, MORE OR LESS, ALONG SAID PARALLEL LINE TO POINT 'D'; THENCE SOUTH 45'16'11" E A DISTANCE OF 55 FEET, MORE OR LESS, TO THE POINT OF BEGINNING; ALL IN SECTION 13. TOWNSHIP 52 SOUTH, RANGE 26 EAST, COLLIER COUNTY, FLORIDA.

	DWG NO.	DRAWING TITLE
	GENERAL	
	G-000	COVER
	G-001 G-002	DRAWING INDEX AND GENERAL NOTES LEGENDS AND ABBREVIATIONS
	CIVIL	LEGENDS AND ABBREVIATIONS
	C-100	TEMPORARY BYPASS PLAN
	C-101	EXTERIOR DEMOLITION PLAN
	C-102	EXTERIOR DEMOLITION SECTIONS & DETAILS
	C-103	EXTERIOR DEMOLITION SECTIONS & DETAILS
	C-104	EXTERIOR DEMOLITION PHOTOGRAPHS
	C-105	PROPOSED SITE PLAN
	C-106	TANK PIPING MODIFICATIONS
	C-107 C-108	TANK PIPING MODIFICATIONS FLOW METER ASSEMBLY SECTION
	C-501	CIVIL DETAILS
	C-502	CIVIL DETAILS
	PROCESS	
	D-101	PUMP STATION DEMOLITION PLAN
	D-102	INTERIOR DEMOLITION PLAN - PUMP ROOM
	D-103	INTERIOR DEMOLITION PLAN - CHEMICAL ROOM
Digitally signed by	D-104 D-105	PUMP STATION MODIFICATIONS PLAN PUMP STATION MODIFICATION SECTIONS AND PERSPECTIVES
Tyler C Wainright	D-106	PROPOSED GROUND STORAGE TANK PLAN AND SECTIONS
Date: 2025.08.05	D-107	PROPOSED GROUND STORAGE TANK SECTIONS AND DETAILS
21:18:56 -04'00'	D-108	PROPOSED GROUND STORAGE TANK SECTIONS AND DETAILS
~	D-109	PROPOSED GROUND STORAGE TANK SECTIONS AND DETAILS
Tyler C. Wainright PE #80476	D-201	SECTIONS
10600 Chevrolet Way, Suite 102, Estero FL 33928	D-202	PUMP DATA
Responsible for: G, C, D Sheets	D-501 STRUCTURAL	PROCESS DETAILS
and the a	S-001	STRUCTURAL GENERAL NOTES AND DESIGN CRITERIA
Titus J Maddela	S-002	STRUCTURAL GENERAL NOTES AND COMPONENT & CLADDING
ENGINEER OF RECORD FOR STRUCTURAL SHEETS	S-101	TANK FOUNDATION SLAB
STRUCTURAL SHEETS	S-102	EQUIPMENT PLAN
2025.08.06 11.56:22-04'00' Titus Maddela	S-103	SLAB PLAN
PE #82624	S-301	SECTIONS
4910 Brownsboro Rd, Louisville KY 40222 Responsible for: S Sheets	S-501	STANDARD DETAILS STANDARD DETAILS
response to o ones	S-502 MECHANICAL	STANDARD DETAILS
	M-001	MECHANICAL LEGENDS, ABBREVIATIONS AND GENERAL NOTES
	M-101	MECHANICAL DEMOLITION PLAN
	M-201	MECHANICAL MODIFICATION PLAN
Contract of	M-501	MECHANICAL DETAILS
17	M-601	MECHANICAL SCHEDULES AND CONTROL DIAGRAM
Digitally signed by Fastal Al Teal	M-901 PLUMBING	MECHANICAL CONTROLS
20200100	P-001	PLUMBING ABBREVIATIONS, LEGEND AND GENERAL NOTES
Faisal Al Twal	P-101	PLUMBING DEMOLITION PLAN
PE #92862 102 E, Pine St, Orlando FL 32801	P-201	PLUMBING MODIFICATION PLAN
Responsible for: M, P Sheets	P-501	PLUMBING DETAILS AND SCHEMATICS
	ELECTRICAL	I
	E-001	ELECTRICAL LEGEND
	E-002 E-003	ELECTRICAL LEGEND ELECTRICAL LEGEND
	E-101	ELECTRICAL SITE DEMOLITION PLAN
	E-102	PROPOSED ELECTRICAL SITE PLAN
	E-103	PUMP STATION ELECTRICAL DEMOLITION PLAN
	E-104	PUMP STATION PROPOSED ELECTRICAL PLAN
3 . Steeling	E-105	PUMP STATION ELECTRICAL LIGHTING DEMOLITION PLAN
(\$\ \sin \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	E-106	PUMP STATION ELECTRICAL PROPOSED LIGHTING PLAN
	E-201 E-202	SINGLE LINE DIAGRAM - DEMOLITION SINGLE LINE DIAGRAM - PROPOSED
2025,08,06 01 50 39-05 00	E-301	VFD WIRING DIAGRAM
Jerry McCullough	E-302	VFD WIRING DIAGRAM
PE #95867 1136 Oak Valley Dr, Ann Arbor MI 48108	E-501	ELECTRICAL DETAILS
Responsible for: E Sheets	E-502	ELECTRICAL DETAILS
	INSTRUMENT	
	1-001	INSTRUMENTATION LEGEND
632.746	I-002 I-110	INSTRUMENTATION LEGEND NETWORK ARCHITECTURE
\$255.4 6.7002	1-200	PUMP STATION P&ID
141 * 101	I-201	CHEMICAL SYSTEMS P&ID
The state of the s	1-202	ELECTRICAL SYSTEM P&ID
2025.08.06 09.59 32-04'00'	I-301	CONTROL PANEL LAYOUT
John Reed PE #73082	1-302	TRANSMITTER TO FIBER PANEL
102 E. Pine St, Orlando FL 32801	I-501	INSTRUMENTATION DETAILS
Responsible for: I Sheets	I-502	INSTRUMENTATION DETAILS



DRAWING INDEX

TECH

TETRA





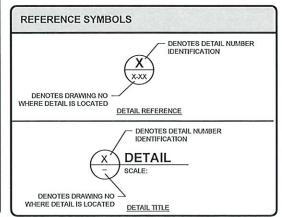
COUNTY PUBLIC UTILITIES PUMP STATION IMPROVEMENTS RAWING INDEX GENERAL NOTE \Box

COLLIER PROJ: 200-08486-2200 DESN: DRWN CHKD:

LIST OF STANDARD ABBREVIATIONS LENGTH RAILROAD AAP AARV RIGHT RIVETED RAW WATER RAW WASTEWATER RIGHT-OF-WAY ALARM ANNUNCIATOR PANEL EAST
EACH
ECCENTRIC
EACH FACE
EFFLUENT
EASEMENT LINE
ELEVATION
ELASTOMERIC
ELECTRICAL POUND(S) LINEAR FEET ALARM ANNUNCIATOR PANEL
AUTOMATIC AIR VELEASE
VALVE
AUTOMATIC AIR VENT
ANCHOR BOLT
ABANDON(ED)
ABRASIVE
ACRYLONITRILE BUTADIENE
STYRENE
ABOVE
ALTERNATING CHEDENT LIGHT POLE
LIME SLURRY
LIME STABILIZED SLUDGE
LOUVER
LOW WATER LEVEL EA ECC EF EFF E/L ELAST ELEC EMER EMC ENGR EP EPDM AAV AB ABAN ABRSV ABS SOUTH SA SAN SCHED SAMPLELINE ABV AC ACCMP ELECTRICAL METER SANITARY ALTERNATING CURRENT MAINTAIN OR MAINTENANCE MANUAL(LY) SCHEDULE ASPHALT-COATED ENCASE(MENT) STORM DRAIL CORRUGATED METAL PIPE ENGINEER MASONRY SOUTHEAST SE SECT SEFF SF SHT SIG SIM SL SLV SM SOLN ACP ADDM ADH AFF AFG AFS AHD ALT AMT APRX ARCH AS ASPH ASSY AVE A/C ASBESTOS CEMENT PIPE EDGE OF PAVEMENT MATL MAX MCC ME MECH MEG MFR MGD MH MI MIN MISC MJ SECTION SECONDARY EFFLUENT SQUARE FOOT OR FEET SHEET(ED)(ING) ADDENDUM ETHYLENE PROPYLENE DIENE MAXIMUM
MOTOR CONTROL CENTER
MITERED END
MECHANICAL
MATCH EXISTING GRADE
MANUFACTURE(R)
MILLION GALLONS
MILLION GALLONS
MILLION GALLONS PER DAY
MANUFAL MONOMER
EPRF EXPLOSION PROOF
EQUIP EQUIPMENT
ER ECCENTRIC REDUC
EST M EASEMENT
EST ESTIMATE(D)
EW EACH WAY
EXC EXCAVATE
EXP EXPANSION
EXST GR EXISTING
EXT GR EXISTING
EXT EXTERION
EXT EXTERION ADHESIVE MONOMER EXPLOSION PROOF ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
ABOVE FINISHED SLAB
AHEAD
ALUMINUM
ALTERNATE
AMPERE
AMOUNT
APPROXIMATE(LY) SIGNAL
SIMILAR
SLUDGE
SLEEVE
SHEET METAL
SOLUTION
SOIL PIPE, SPACE(ING) SOLN SOLUTION
SP SOLUTION
SP SOLUTION
SPRT SUPPORT
SQ SQUARE
SS ANITIARY SEVE
SSE SUBSTANDARD
SST STANLESS STE
STA STANLES
STA STATION
STD STANDARD
STK STAKE
STL STEEL
STR STRAIGHT
STRUCT STRUCTURAL
SURF SURFACE MILE(S) MINIMUM, MINUTE(S) SPECIFICATION SUPPORT MISCELLANEOUS MECHANICAL JOINT MIXED LIQUOR MASONRY OPENING ARCHITECTIURAL SOUPORT
SOUARE
SANITARY SEWER
SUBSTANDARD EFFLUENT
STAINLESS STEEL
STREET
STATION
STANDARD
STAKE ALUM SOLUTION ASPHALT ASSEMBLY MONUMENT
MILES PER HOUR
MALE PIPE THREAD
MOTOR STARTER
MOTOR STARTER PANEL AVENUE AIR CONDITIONING AIR/VACUUM AIR VALVE FABRICATE(D)
FLANGED COUPLING ADAPTER
FLAT BAR
FLOW-CONTROL VALVE
FLOOR DRAIN
FOUNDATION FAB
FCA
FB
FCV
FD
FDN
FE
FHY
FIG
FIN
FIN
FIN
FIR MPH MPT MS MSP MTD MV MW MWL MWP BAFFLE BALL CHECK VALVE BLIND FLANGE MOTORIZED VALVE FILTER(ED) EFFLUENT FIRE HYDRANT MEAN WATER LEVEL BUTTERFLY VALVE BRAKE HORSEPOWER SURFACE SURF SV SVCE SVW SWD SWSH SYMM SYMM SYMM MAXIMUM WORKING PRESSURE SOLENOID VALVE BLACK IRON SERVICE WATER BITUM BITUMINOUS OR BITUMASTIC FINISH FLOOR NORTH SODIUM HYPOCHLORITE NORTHEAST NOT IN CONTRACT NUMBER NOMINAL NATIONAL PIPE THREAD NATIONAL PIPE TAPER SOUTHWEST SIDEWATER DEPTH SURFACE WASH SYMBOL SYMMETRICAL SIDEWALK BASELINE FIN GR FINISH GRADE B/L BLDG BLK BM BOC BOT BP BRG BSP BV BW NaOCI NE NIC NO NOM NPF NPT BUILDING FL FLG FLTR FM FPM FPS FRP BLOCK
BENCH MARK
BACK OF CURB
BOTTOM
BASE PLATE
BEARING
BLACK STEEL PIPE FLANGE(D) FLOW LINE FILTER FORCE MAIN FEET PER MINUTE T TAN
TB
TBM
TB-xx
TD
TDH
TE
TEFC FEET PER SECOND FIRERGI ASS REINFORCED (THREAD) NON-POTABLE WATER TANGENT TANGENT
TOP OF BEAM
TEMPORARY BENCH MARK
TEST BORNG-3x (e.g. TB-1)
TRENCH DRAIN
TOTAL DYNAMIC HEAD
TOTALLY ENCLOSED
TOTALLY ENCLOSED
TELEPHONE
TOTALLY ENCLOSED
NON-VENTILATED
THERADEDD NPW NRS NTS NW N/A PLASTIC FT FUT FV FW FWP F/F FOOT OR FEET BOTH WAYS NON-RISING SYSTEM NOT TO SCALE BACKWASH WATER FUTURE FOOT VALVE NORTHWEST NOT APPLICABLE FINISHED WATER FACTORY WIRED PANEL FACE TO FACE CAPACITY
COMPRESSED AIR
COMBINATION AIR VALVE
CATCH BASIN
CHLORINE CONTACT CHAMBER
CHLORINATED EFFLUENT CAP
CAV
CBCCC
CECFS
CV
CIP
CISP
CJ
CLL
CLL
CLL
CLL
CMPA OXYGEN ON CENTER OUTSIDE DIAMETER OPEN DRIP PROOF TEL TENV GAUGE
GALLON(S)
GALVANIZED
GALVANIZED IRON PIPE
GROOVE JOINT
GROUIND CUBIC FEET PER MINUTE CUBIC FEET PER SECOND OUTSIDE FACE THD
THK
TLM
TOB
TOC
TOS
TOT
TP
TS
TV
TYP
T&B THREAD(ED) OVER HEAD CHECK VALVE OVER HEAD WIRE TELEMETRY TOP OF BANK GALLONS PER DAY OPTIONAL
OFFICIAL RECORDS
OUTSIDE SCREW AND YOKE
OPERATION AND MAINTENANCE CAST IRON PIPE CAST IRON SOIL PIPE TOP OF CURB TOE OF SLOPE GALLONS PER DAY
GALLONS PER HOUR
GALLONS PER MINUTE
GALLONS PER MINUTE
GRADE
GRATING
GALVANIZED STEEL
GALVANIZED STEEL PIPE
GROUND STORAGE RESERVOIR
GROUND STORAGE TANK TOTAL
TELEPHONE POLE
THICKENED SLUDGE
TELEVISION
TYPICAL
TOP AND BOTTOM CONSTRUCTION JOIN CONSTRUCTION SUMT
CIRCUIT
CENTER LINE
CHLORINE GAS
CHAIN LINK FENCE
CLEAR OR CLEARANCE
CULVERT
CORRUGATED METAL PIPE
CORRUGATED METAL PIPE PA PC PCM PROCESS AIR
POINT OF CURVE
PERMANENT CONTROL U UD UG ULT UN UON UGE UTC MONUMENT CORRUGATED METAL PIPE PLAIN END PRESSURE GAGE UNDERDRAIN GATE VALVE ARCH UNDERGROUND CMU CND CNR CO CO2 COAG COL COM CONC CONN CONST CONCRETE MASONRY UNIT POINT OF INTERSECTION ULTIMATE PLATE PROPERTY LINE UNION UNLESS OTHERWISE NOTED H HB HD HDPE HDR HFA HGR HOT HNDRL HOA HORIZ HP HPA HR HVAC HOSE BIBB CORNER HEAVY-DUTY
HIGH-DENSITY POLYETHYLENE
HYDRAULIC
HYDROFLUOSILICIC ACID
HANGER
HEIGHT PINCH VALVE
POINT OF BEGINNING
PUSH-ON JOINT
POLYMER
POWER POLE
POUNDS PER DAY UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE CABLE UTILITY **CLEAN OUT** CARBON DIOXIDE COAGULANT COLUMN UTIL COMMON CONCRETE CONNECTION CONSTRUCT(ION) CONTINUOUS HAND RAIL HAND-OFF-AUTO PARTS PER MILLION VOLT(S) VACUUM VAC VAR VC VCP VEL VERT VFD VOL PREFABRICATED CONT VARIES PRESSURE REDUCING VALVE VERTICAL CURVE CONTRACT(OR) HORSEPOWER COORDINATE HIGH PRESSURE AIR PROCESS WATER VITRIFIED CLAY PIPE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH COMPANY HOUR HEATING, VENTILATION, AND AIR CONCRETE PIPE CONCRETE PIPE ARCH CONDITIONING HIGH WATER LEVEL CONDENIE PIPE ARCH
COUPLING
CHLORINATED POLYVINYL
CHLORIDE
CONCENTRIC REDUCER
CHLORINE SOLUTION
CASING ABSOLUTE
POUNDS PER SQUARE INCH
GAGE
POINT OF TANGENCY
PLUG VALVE PT PV PVC PVMT PW PWR WATT, WEST WASTE ACTIVATED SLUDGE CR CS CSG CTV CY CYL C&G C/C W WAS WCO WF WH WL WM WP WALL CLEAN OUT WIDE FLANGE WALL HYDRANT INSIDE DIAMETER POLYVINYL CHLORIDE PAVEMENT CABLE TELEVISION CUBIC YARD IN INF INT INTR INV IP IPS INCH(ES) POTABLE WATER CYLINDER CURB AND GUTTER INTERSECTION POWER WATER LINE INTERIOR WATER MAIN INTERIOR
INVERT
IRON PIPE
INTERNATIONAL PIPE
STANDARD
INTERNAL RECYCLE
IRRIGATION WATER CENTER TO CENTER WATER PROOF(ING), WORKING FLOW QUANTITY POINT WORKING PRESSURE WATER SURFACE WELDED STEEL PIPE WEIGHT WPR WS WSP WT WTP WW WWF WWMF QTY DATUM DOUBLE DIRECT CURRENT DEMOLITION DEPARTMENT DESCRIPTION DETAIL DIESEL FUEL RAD RAS RC RCB RCP RCPA RADIUS RETURN ACTIVATED SLUDGE REINFORCED CONCRETE REINFORCED CONCRETE BOX WATER TREATMENT PLANT WELDED WIRE FABRIC JUNCTION BOX REINFORCED CONCRETE PIPE WELDED WIRE MESH REINFORCED CONCRETE PIPE WASTEWATER TREATMENT DUCTILE IRON PLANT W/ W/O DIAMETER KJP (1.000 LB) RD RDCR REBAR REF REINF REM REQD RF RJ RM RPBP KPL KV KVA KW KWH REDUCER WITHOUT DIFFUSER KICK PLATE REINFORCING STEEL REFERENCE KILOVOLT-AMPERE KILOWATT KILOWATT-HOUR **DUCTILE IRON PIPE** REFERENCE
REINFORCE(D)(ING)(MENT)
REMOVE(ABLE)
REQUIRED
RAISED FACE
RESTRAINED JOINT
ROOM X XFER TRANSFER DIRECTION YARD(S) YARD HYDRANT YEAR(S) YR DOWN DRAIN DIAPHRAGM VALVE DRIVEWAY LEFT
LABORATORY
LAMINATE OR LAMINATION
LATERAL
LAVATORY REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE RPM DRAIN WASTE AND VENT

	FLANGED					MECHANICAL JOINT			GROOVE JOINT				SOLVENT WELD			
FITTING/ APPURTENANCE	SINGL	E-LINE	DOUBL	E-LINE	SINGL	E-LINE	DOUBL	E-LINE	SINGL	E-LINE	DOUBL	E-LINE	SINGL	E-LINE	DOUBL	E-LINE
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSE
BEND	F	₽#			+	中			+	4			+	+	F	
TEE	-1-1-1	-1 <u>+</u> -			中	亭			+	4+			++-	+++		
WYE		X		42	124	124		4	X	¥		= 213	4	4		- 12
REDUCER	- >-	>4			- >-	⊣⋈⊷		E	->-	- >-			->-	->		€
CAP/ BLIND FLANGE				₽	N/A	N/A	N/A	N/A	-0	-		=	_			₩
PLUG	N/A	N/A	N/A	N/A	(-			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUTTERFLY VALVE					1)(-	小心			-	-#-			-#-		210	
BALL VALVE	-100011-	-10001-		ED843	N/A	N/A	N/A	N/A	-1801-	-1∞1-		E	-1881-	-1891-		£380E
CHECK VALVE	11	1		₽	N/A	N/A	N/A	N/A	>	14			7	4		EN E
GATE VALVE					12	→			-1>4-	₩-		₽	$\rightarrow \triangleright \leftarrow$	→		₽
PLUG VALVE					-JXXI-	- xx -		=1)(+)(1 3		- ₩-		-EIMB	− ₩	− ₩		-1200
AUTOMATIC CONTROL VALVE	-IŽIH	⊣ ₽\$1⊢		₽ÅÞ	N/A	N/A	N/A	N/A	- Ñ-	₩-		ÐÅÐ	→ \$→	⊸ \$⊢		Ð
PINCH VALVE	-10%1F	⊣‰⊢			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1%1-			

CIVIL LEGEND									
	RAW WATER MAIN RIGHT OF WAY LINE (R-O-W) LIMITS OF CONTRUCTION EASEMENT PROPOSED CONTOUR MAJOR PROPOSED CONTOUR MINOR	SPOT ELEVATION TOP BOTTOM EMBANKMENT		TREE - PALM TREE TREE - DECIDUOUS	_		— v	VEGETATION	
	(LABEL OPTIONAL) WATER STORM SEWER SANITARY SEWER SANITARY SEWER (FORCE MAIN) GUARD RAIL STEEL FENCE WOOD FENCE	POWE OH-?? MANH SS SEWE SV SEWE CO SEWE	ER POLE WM Y POLE	WATER WELL WATER METER HYDRANT					·



HATCHING LEGEND										
	ASPHALT OR CONCRETE SURFACE (SIDEWALK OR ROADWAY)		PRECAST CONCRETE							
	ROADWAY/SIDEWALK OPEN CUT RESURFACE		GROUT							
*	SODDED OR SEEDED AND MULCHED AREA OR EXISTING WETLAND		TO BE DEMOLISHED							
	EARTH		STEEL							
	EXISTING PIPES, STRUCTURES, EQUIPMENT TO BE REMOVED	+ + +]	WETLAND							
	CAST-IN-PLACE CONCRETE		GRATING							

	EXISTING	PROPOSED
/ISIBLE LINE		
HIDDEN LINE		
CENTER LINE		
PHANTOM LINE		
MATCHLINE		
BREAK LINE	<i>l</i>	,
DIMENSION LINES AND LEADERS	1 3/32"	NOTE -

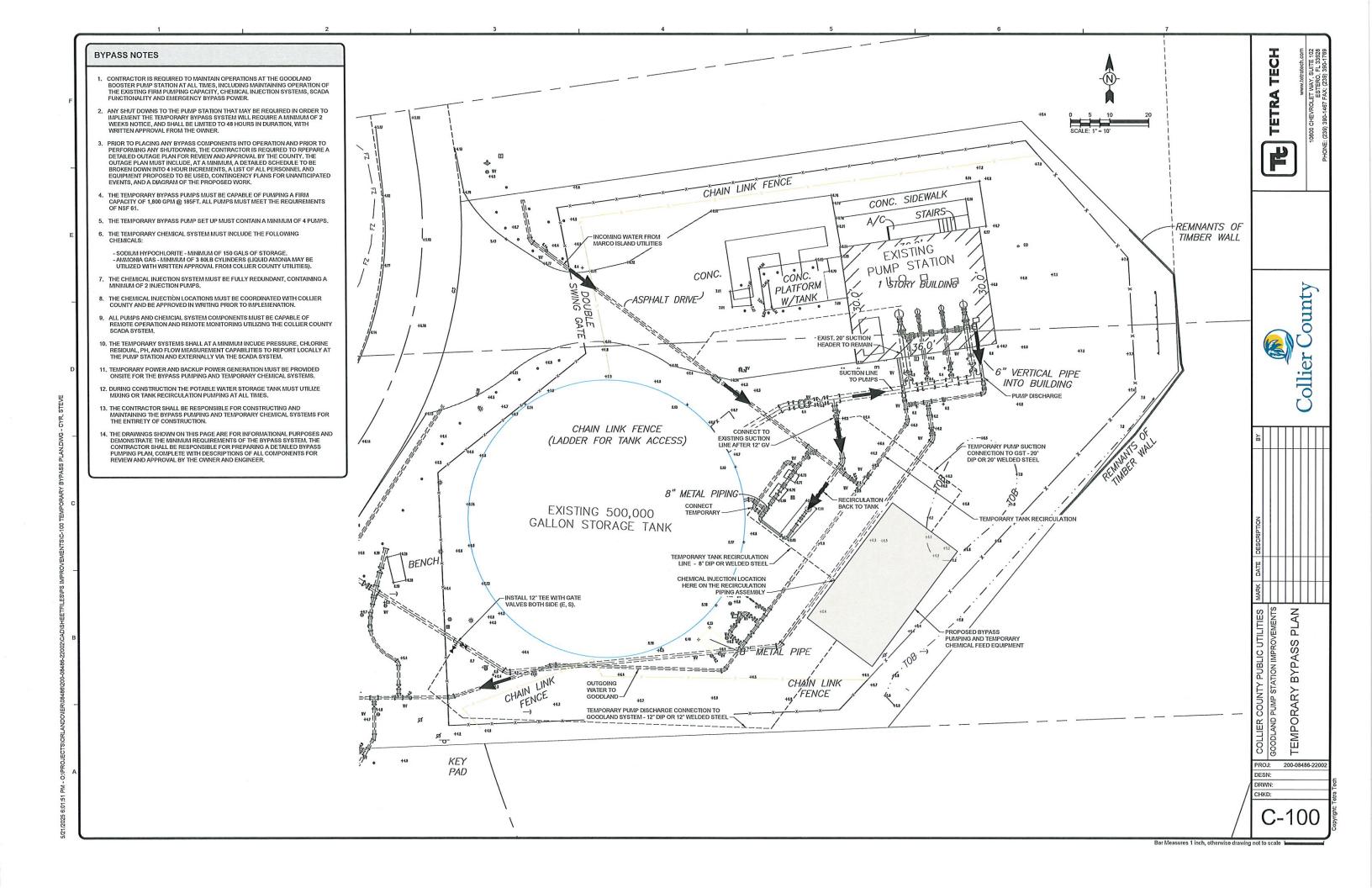
	à								L	
	MARK		7000							
DOSED	COLLIER COUNTY PUBLIC UTILITIES	_	GOODLAND PUMP STATION IMPROVEMENTS			LEGEND AND	ONCITALVIDGO			
	PR	_		2	200	30 -	48	6-2	200)2
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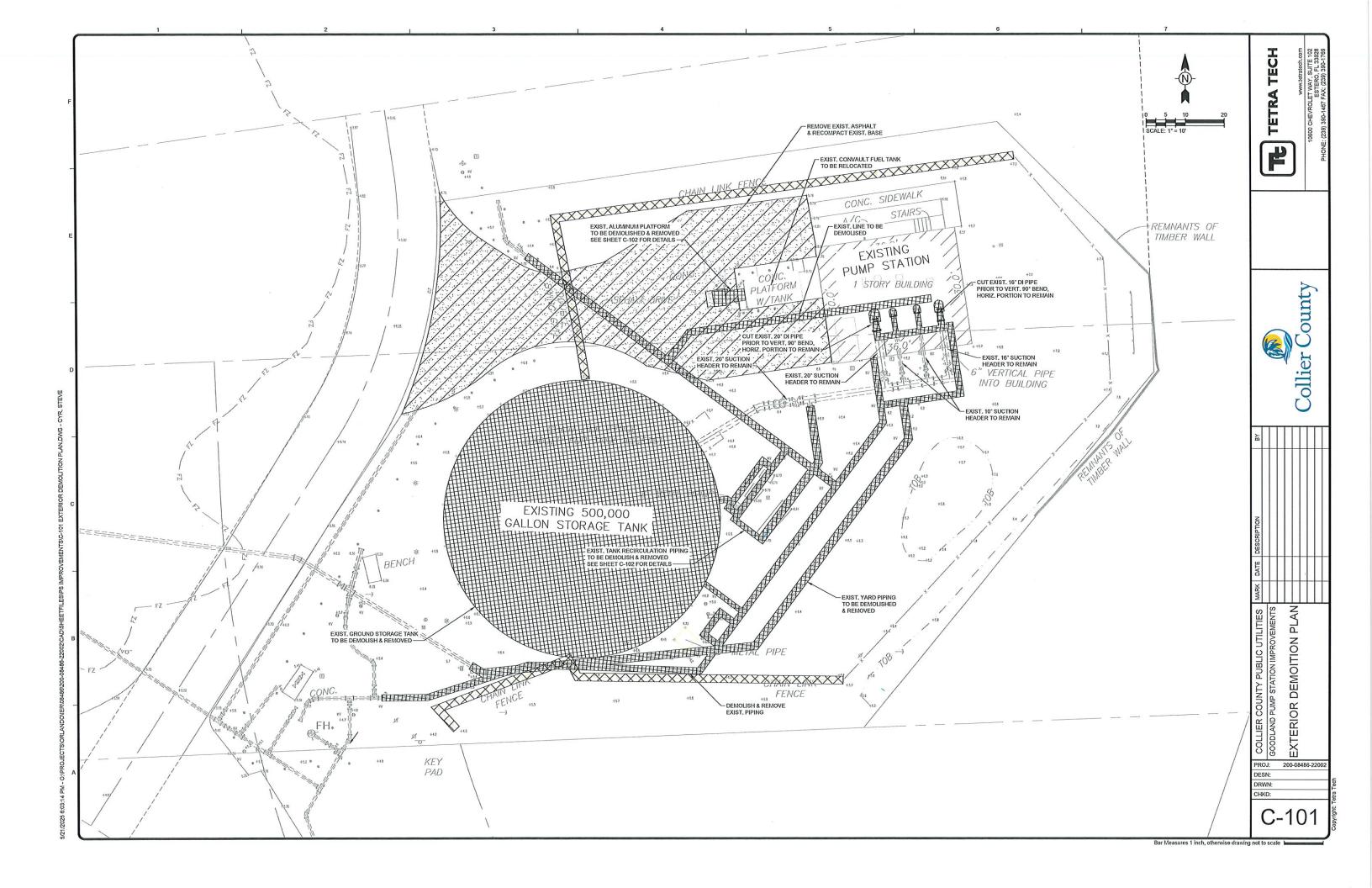
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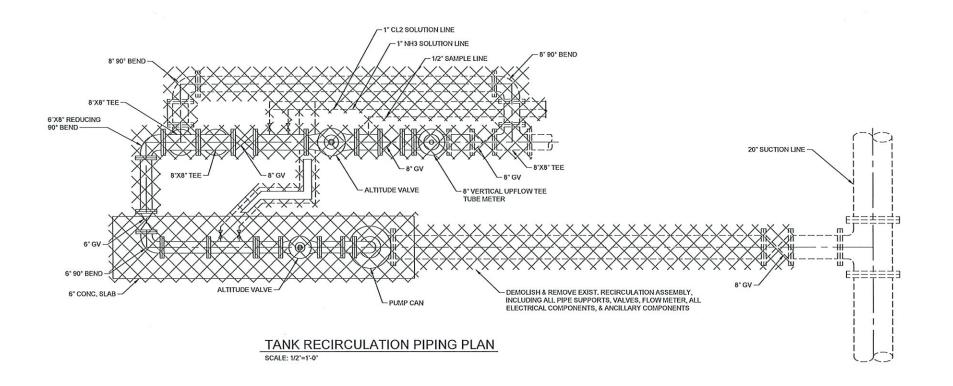
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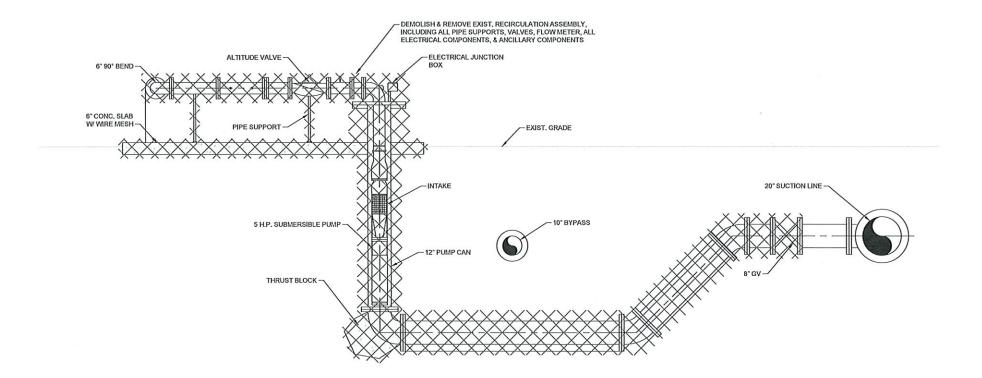
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TANK RECIRCULATION PIPING SECTION

TETRA TECH



Collier

COLLIER COUNTY PUBLIC UTILITIES GOODLAND PUMP STATION IMPROVEMENTS EXTERIOR DEMOLITION SECTIONS & DETAILS

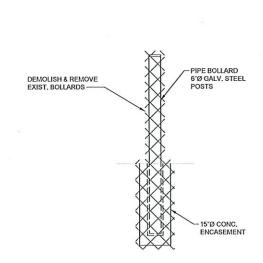
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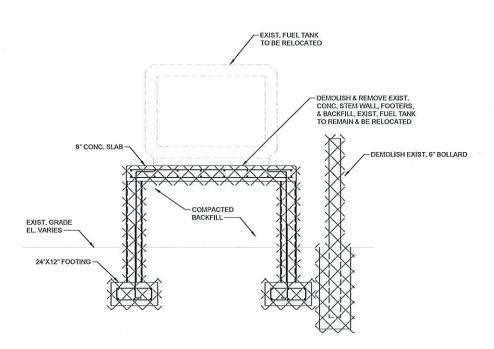
- EXIST. FUEL TANK TO BE RELOCATED DEMOLISH & REMOVE EXIST. CONC. STEM WALL, FOOTERS, & BACKFILL. EXIST. FUEL TANK TO REMAIN & BE RELOCATED— BACKFILL -

CONCRETE PLATFORM SECTION

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



BOLLARDS SCALE: 1/2"=1'-0"



CONCRETE PLATFORM SECTION

TETRA TECH

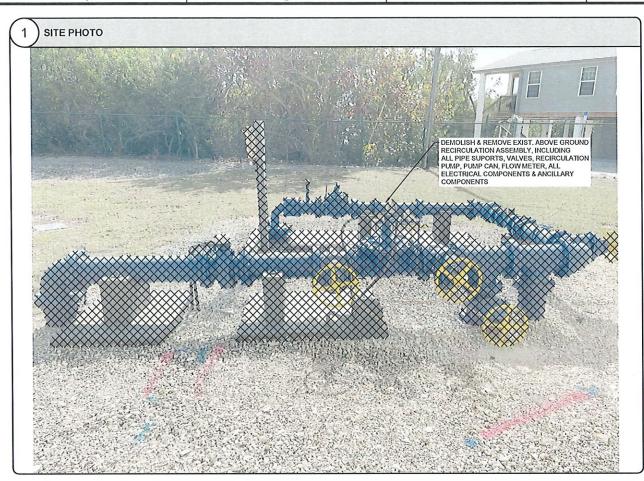


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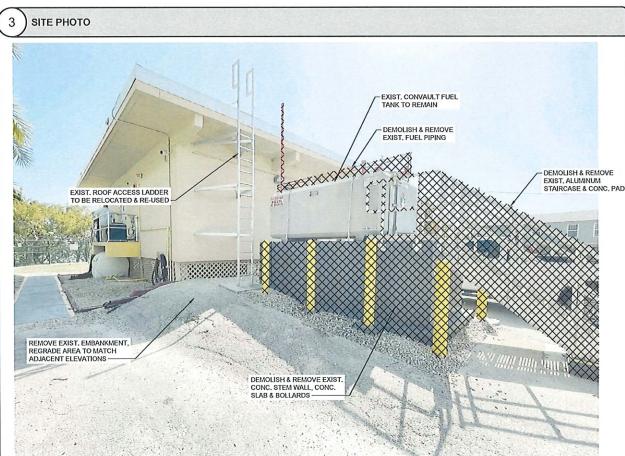
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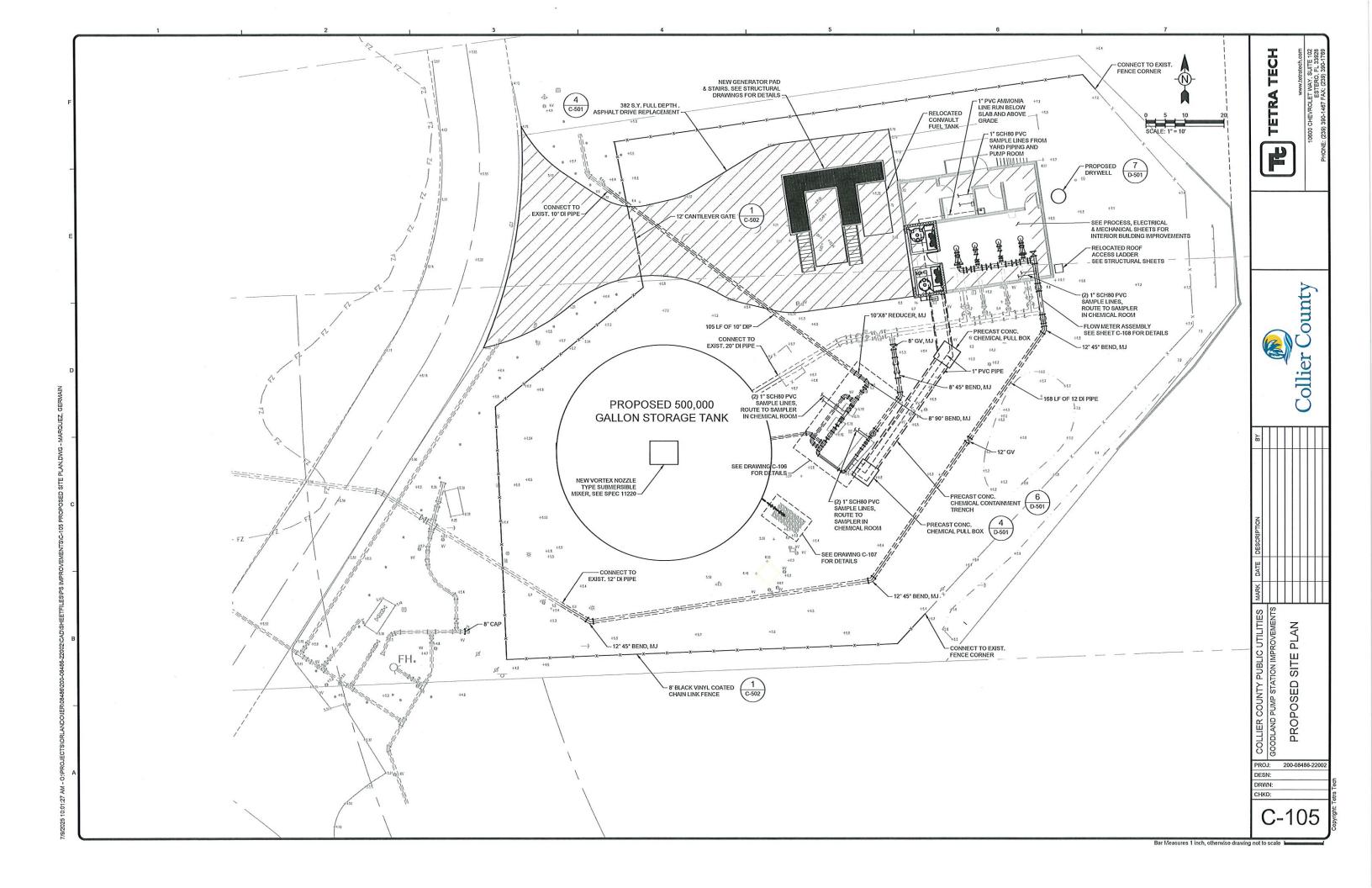
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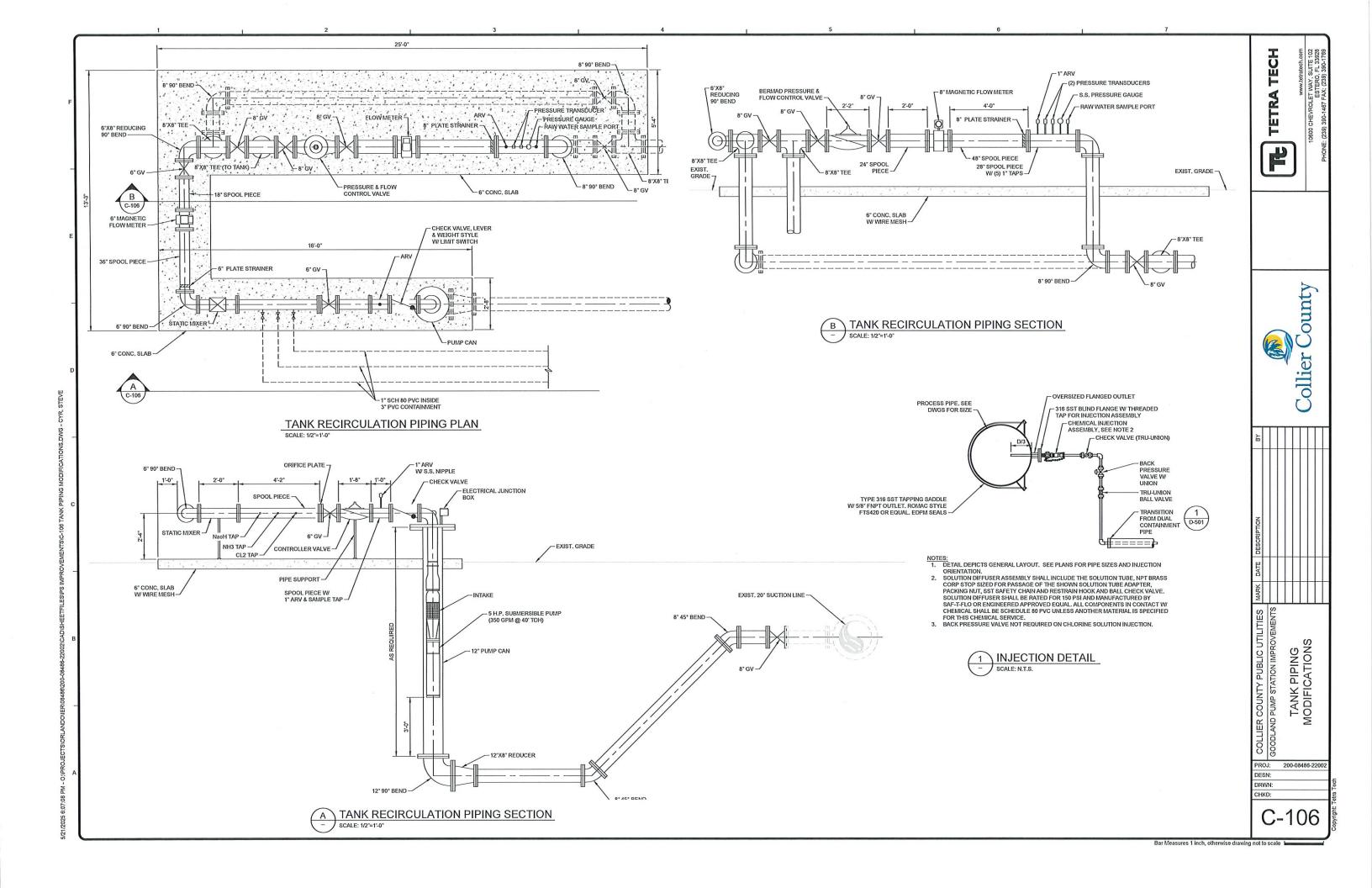
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GOODLAND PUMP STATION IMPROVEMENTS

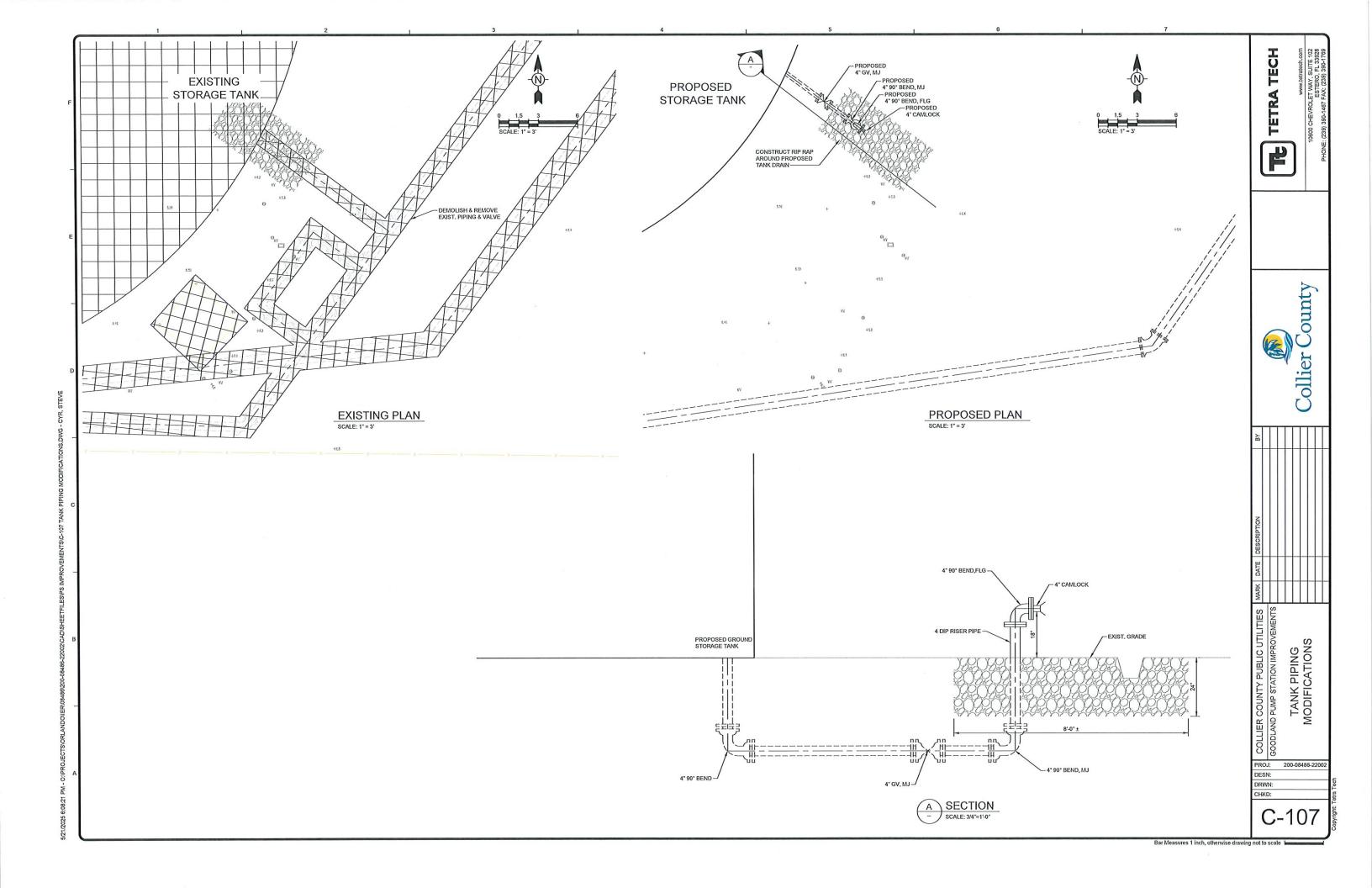
EXTERIOR DEMOLITION
PHOTOGRAPHS

PROJ: 200-08486-22002

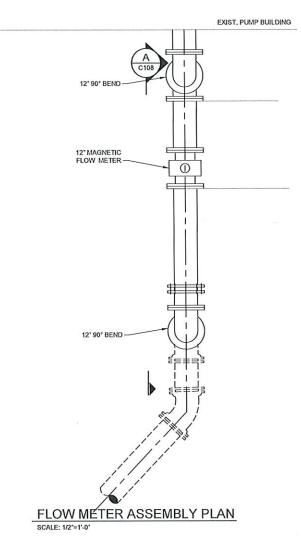
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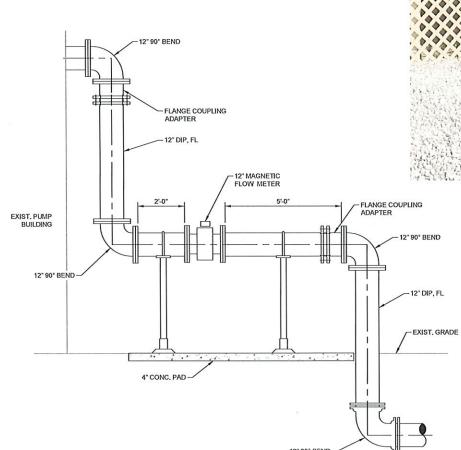












FLOW METER ASSEMBLY SECTION

scale: 1/2"=1'-0"



Collier County

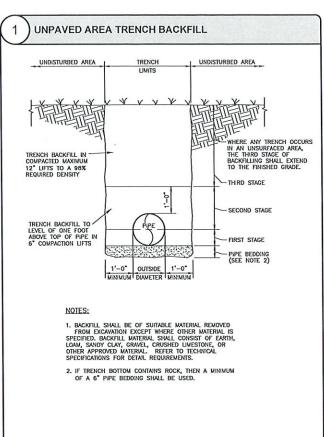
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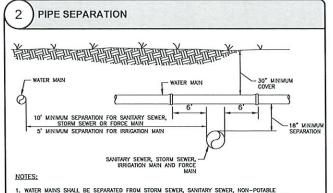
FLOW METER ASSEMBLY SECTION

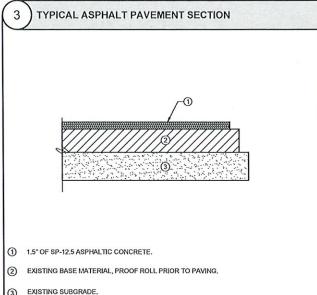
COLLIER COUNTY PUBLIC UTILITIES GOODLAND PUMP STATION IMPROVEMENTS

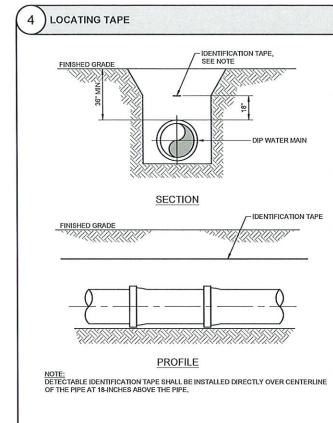
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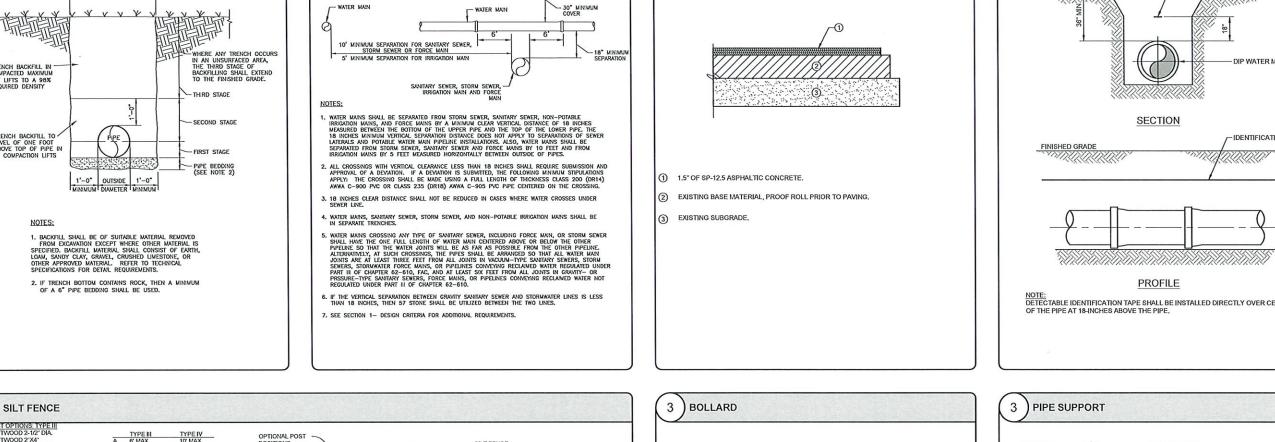
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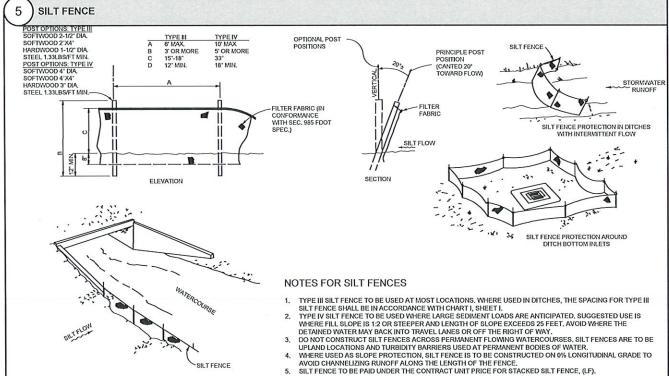


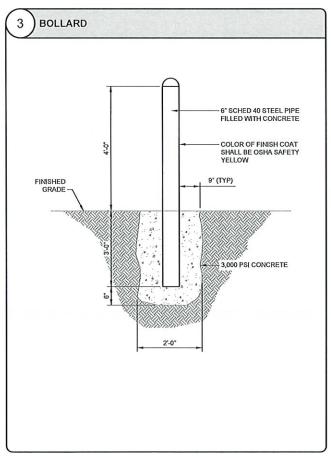


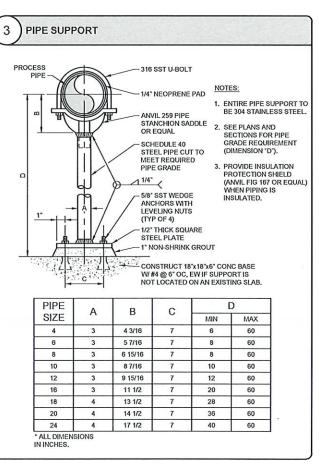


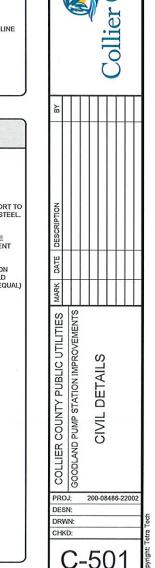








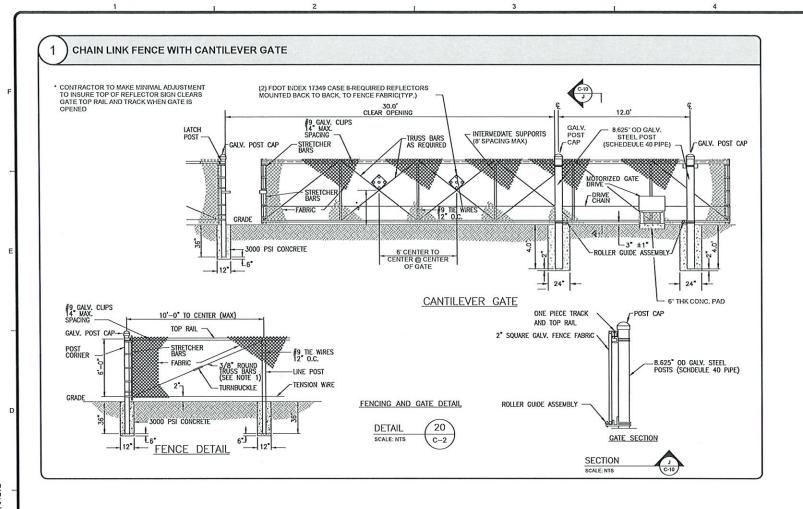




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County



County Collier COLLIER COUNTY PUBLIC UTILITIES GOODLAND PUMP STATION IMPROVEMENTS CIVIL DETAILS PROJ: 200-08486-22002 DRWN:

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25 6:09:32 PM - O:IPROJECTSIORLANDONER1084861200-08488-22002ICADISHEETFILESIPS IMPROVEMENTSIC-501 CIVIL DETAILS.DW

Bar Measures 1 inch, otherwise drawing not to scale

CHKD:

C-502