



ENGINEERING DEPARTMENT

ADDENDUM NUMBER ONE (1)
Issued 05/19/2025

Project: Knights Mill Lift Station Rehabilitation

Project No. 25-07-704

Bid Opening Date & Time: May 22, 2025 – 10:20AM

Owner: City of Valdosta, Georgia

- Responses to the Requests For Information (RFIs) that have been received are attached.
- A revised Unit Cost Schedule/Bid Form is attached in both PDF format and separately in Excel format.
- A revised Construction Plan Set is attached.
- Information from Templeton (vendor) for the station and control panel are attached.
- Motor control calculations for Gorman-Rupp pumps are attached.
- Meeting notes from the Mandatory Pre-Bid Meeting held on 05/06/2025 were issued by email on 05/07/2025, and are included in this addendum for convenience.

Please be sure to acknowledge the receipt of this Addendum on your proposal form in the appropriate space provided. A revised Proposal Form is included in the Bid/Contract documents that lists this Addendum.

Submitted,

Charlie Clark, P.E.
Engineering Services Manager



ENGINEERING DEPARTMENT

RFI Responses for Knights Mill LS Rehab – Issued 05/19/2025

1. Can the City provide flow rate of Existing PS, GPM?
 - a. CURRENT PUMP DUTY PT IS 140 GPM AT 77FT TDH
2. GENERATOR TO BE REMOVED. Is it to be turned over to the City?
 - a. CITY TO REMOVE AND RETAIN. PLANS REVISED TO REFLECT SAME.
3. What is approximate depth of Existing WW?
 - a. RECORD DRAWINGS SHOW THIS MANHOLE AS BEING APPROXIMATELY 14FT FROM RIM TO INVERT AND BEING 6' DIA.
4. Sheet C-7. There is a manhole existing where plans call for MH#1. Is this manhole to be replaced or contractor to tie sewer to existing MH and Rehab existing MH?
 - a. SS-1 IS EXISTING AND SHOULD BE REHABBED/LINED AS PART OF THIS PROJECT.
5. Is Existing MH at pump station lined or epoxy coated?
 - a. UNKNOWN. NEEDS TO BE REHABBED AND LINED AS PART OF PROJECT.
6. Is Existing MH on Walden lined or epoxy coated? If this MH is to be used and is not coated, does it need to be epoxy coated inside?
 - a. UNKNOWN. NEEDS TO BE REHABBED AND LINED AS PART OF PROJECT.
7. 660G-Tie to Ex MH 12". Should this 8". No 12" PVC on this job.
 - a. CORRECT. SHOULD BE 8"; UCS/BID FORM IS REVISED AND REISSUED.
8. Can line item be added to bid form for 2-6" sewer services for note on sheet C-7 for 2 ex sewer services to be connected. And will cleanout be required at ROW on these?
 - a. YES AND YES. NOTABLY, SEWER SERVICE FOR RESIDENCE LOCATED NEAREST SS-1 MAY HAVE SERVICE ENTRY AT MANHOLE OR MAY HAVE SERVICE CONNECTION ON LINE. UNIT AND INSTALLED IMPROVEMENTS WILL BE BILLED BASED ON UNIT INSTALLED. UCS/BID FORM IS REVISED AND REISSUED.
9. What is on site voltage available at LS.?
 - a. 480v 3-phase

PROPOSAL

TO: City of Valdosta, Lowndes County, Georgia

All interested parties:

In compliance with the advertisement for bids, the undersigned, hereinafter called the Bidder, proposes to enter into a contract with the City of Valdosta to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and all necessary labor to complete the construction of the work stipulated herein in full, and in complete accord with the shown, noted, described, specified and reasonably intended requirements of the Specifications, Drawings, and Contract Documents to the full and entire satisfaction of the Owner.

The Bidder has carefully examined and fully understands the contract, plans, specifications and other documents hereto attached and has made a personal examination of the site of the proposed work and hereby agrees that if his proposal is accepted, the Bidder will contract with the City of Valdosta in compliance with the specifications.

The Bidder acknowledges that each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item; the Bidder acknowledges that the estimated quantities are not guaranteed, and are for the purpose of comparison of Bids; and the Bidder acknowledges that final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

Bidder will perform the following Work at the indicated unit prices:

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See next page for unit cost schedule.

KNIGHTS MILL LIFT STATION REHABILITATION**CITY OF VALDOSTA, GEORGIA****BID FORM / UNIT COST SCHEDULE****Issued 04/24/2025 - Add#1 05/19/2025**

SPECIFICATIONS FOR THIS PROJECT SHALL BE THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION, AND THE CITY OF VALDOSTA STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION

Addendum

Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
000-A	DEMOLITION - complete including pavement saw cut, clearing, grubbing, equipment, piping, associated debris removal and offsite disposal	LS	1	\$	\$
150-A	MOBILIZATION / DEMOBILIZATION	LS	1	\$	\$
150-B	TRAFFIC CONTROL - complete including barricades, signs, fencing for vehicles and pedestrians	LS	1	\$	\$
163-A	EROSION CONTROL - Dust Control - Du - includes installation and maintenance	AC	0.3	\$	\$
163-B	EROSION CONTROL - Mulch Stabilization (DS1) temporary mulching, including installation and maintenance	AC	0.3	\$	\$
163-C	EROSION CONTROL - Temporary Grassing (DS2) temporary grassing, including installation and maintenance	AC	0.3	\$	\$
163-D	EROSION CONTROL - Permanent Grassing (Ds3) including installation, maintenance for duration of contract	AC	0.3	\$	\$
210-A	EARTHWORK - Grading, complete, including excavation, backfilling, compaction, and preparation for pavement construction	LS	1	\$	\$
210-B	UNSUITABLE SOIL REMOVAL - excavation, haul and off-site disposal (not shown on plans - used only at the direction of the Owner)	CY	20	\$	\$
210-C	SELECT SOIL IMPORT - soil material, excavation, haul, placement and compaction (not shown on plans - used only at the direction of the Owner)	CY	20	\$	\$
441-A	CONCRETE DRIVEWAY-6IN	SY	40	\$	\$
441-B	CONCRETESIDEWALK - 5 FT WIDE - 4 IN THICK	SY	85	\$	\$

KNIGHTS MILL LIFT STATION REHABILITATION

CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

Issued 04/24/2025 - Add#1 05/19/2025

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Addendum

Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
441-C	CONCRETE SLAB ON GRADE - 3000 psi (not shown on plans, to be used only if directed by Owner)	CY	10	\$	\$
441-D	CONCRETE ENCASEMENT FOR UTILITY MAINS (not shown on plans - used only at the direction of the Owner)	CY	10	\$	\$
441-E	FLOWABLE FILL - Fill Voids (not shown on plans - used only at the direction of the Owner)	CY	5	\$	\$
500-A	REMOVE/REPLACE 18 IN CURB & GUTTER (contingency item not shown on plans, to be used at direction of Owner)	LF	40	\$	\$
500-B	24 IN RCP W/ SES (safety end sections are included in costs)	LF	48	\$	\$
660-A	SAN SEWER PIPE, 4 IN PVC	LF	20	\$	\$
660-B	SAN SEWER, 45 DEG DI BEND, 4 IN	EA	1	\$	\$
660-C	SAN SEWER PIPE, 6 IN DIP (outside lift station site)	LF	10	\$	\$
660-D	SAN SEWER, 90 DEG DI BEND, 6 IN (outside lift station site)	EA	1	\$	\$
660-E	CONCRETE ENCASE SEWER, 8 IN	LF	10	\$	\$
660-F	SAN SEWER PIPE, 8 IN PVC	LF	259	\$	\$
660-G	SAN SEWER, TIE PVC TO EXISTING MANHOLE, <u>8 IN</u>	EA	1	\$	\$
<u>660-H</u>	<u>SAN SEWER, 6 IN SERVICE LATERAL, INCLUDING CONNECTIONS AND CLEANOUT AT R/W</u>	<u>EA</u>	<u>2</u>	\$	\$
668-B	SAN SEWER MANHOLE, TP 1, ADDL DEPTH, CL1	LF	8	\$	\$

Add.#1

Add.#1

KNIGHTS MILL LIFT STATION REHABILITATION**CITY OF VALDOSTA, GEORGIA****BID FORM / UNIT COST SCHEDULE****Issued 04/24/2025 - Add#1 05/19/2025**

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Addendum

Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
668-C	LIFT STATION SITE COMPLETE - all work inside and including header curb including concrete wet well, pumps, piping, fencing, drive, gravel, header curb, light pole, bollards, electrical panel and wiring, generator, SS-1 manhole, etc.	LS	1	\$	\$
670-AA	JACK & BORE STEEL CASING, 16 IN.	LF	60	\$	\$
702-A	SOD (not shown on plans - used only at the direction of the Owner)	SY	250	\$	\$
999-A	COORDINATION WITH UTILITY OWNERS for Relocation or Support During Construction (Power, Light, Telephone Pedestal, etc.)	LS	1	\$	\$
999-B	SURVEY - As-Built Survey including right-of-way, centerline profiles; locations, contours & elevations for pavement & canal & pipes & ditches & top-of-slope & bottom-of-slope	LS	1	\$	\$
999-C	BEDDING STONE - #57 (contingency - used only at the direction of the Owner)	TON	10	\$	\$
999-D	BEDDING SAND - (contingency - used only at the direction of the Owner)	TON	10	\$	\$
999-E	PAVEMENT REMOVAL AND REPLACEMENT - removal of existing pavement, base, and subgrade soils & replacement of 12" subgrade, 8" graded aggregate base, and equivalent asphalt pavement course thickness	SY	10	\$	\$
TOTAL =					

In case of discrepancies between figures in the unit prices and the total, the unit price shall apply.

It is understood and agreed that the quantities listed in this proposal are approximate only and are intended principally to serve as a guide in comparing bids and may be increased without invalidating the unit costs.

The undersigned, as Bidder, hereby declares that the only person, company, or parties interested in this proposal or the contract to be entered into as principles, are named herein; and this proposal is made without connections with any other person, company, or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud.

Failure to properly acknowledge any Addendum shall result in a declaration of non-responsiveness and disqualify the bid.

Receipt of the following addenda is acknowledged:

Addenda Number	Date
<u>1</u>	<u>05/19/2025</u>
_____	_____

The full names and addresses of persons or parties interested in the foregoing bid as principles are as follows:

Company & Address:

Date: _____

Signature

Signature

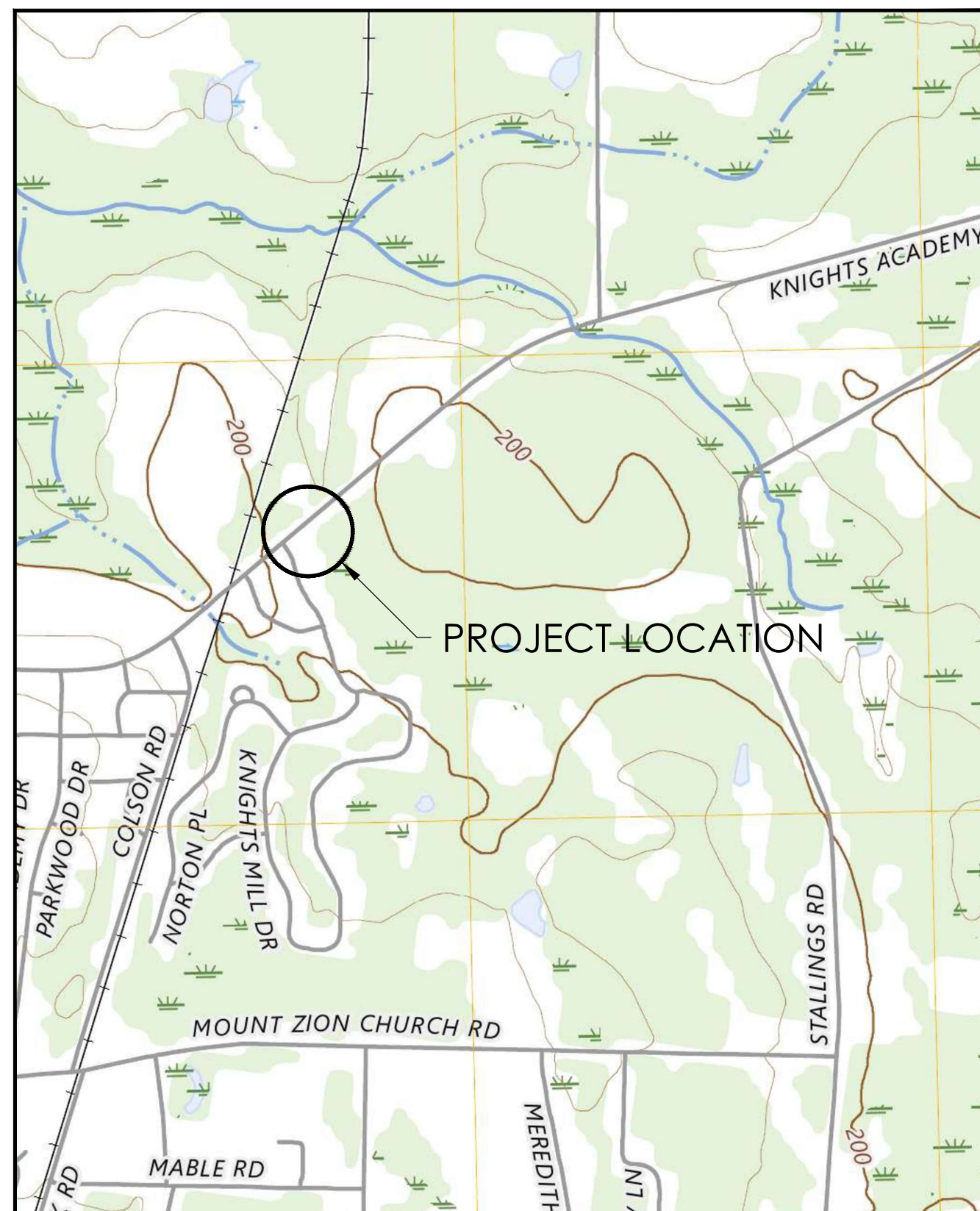
Registered Utility Contractors License Number: _____

END OF SECTION

KNIGHTS MILL LIFT STATION REHABILITATION



KEY CONTACT INFORMATION
CITY OF VALDOSTA - ENGINEERING DEPARTMENT: 229-259-3530
CITY OF VALDOSTA - UTILITIES DEPARTMENT: 229-259-3510
AFTER HOURS UTILITY CONTACT NUMBER: 229-434-4132



LOCATION MAP
SCALE: 1" = 1,000'

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER
2	CONSTRUCTION DETAILS (1 OF 2)
3	CONSTRUCTION DETAILS (2 OF 2)
4	LIFT STATION SERIES EXISTING CONDITION AND DEMO PLAN
5	LIFT STATION SERIES DIMENSIONED SITE AND GRADING PLAN
6	LIFT STATION SERIES SITE PLUMBING AND ELECTRICAL PLAN
7	GRAVITY SEWER SERIES PLAN AND PROFILE



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
KNIGHTS MILL
LIFT STATION REHABILITATION

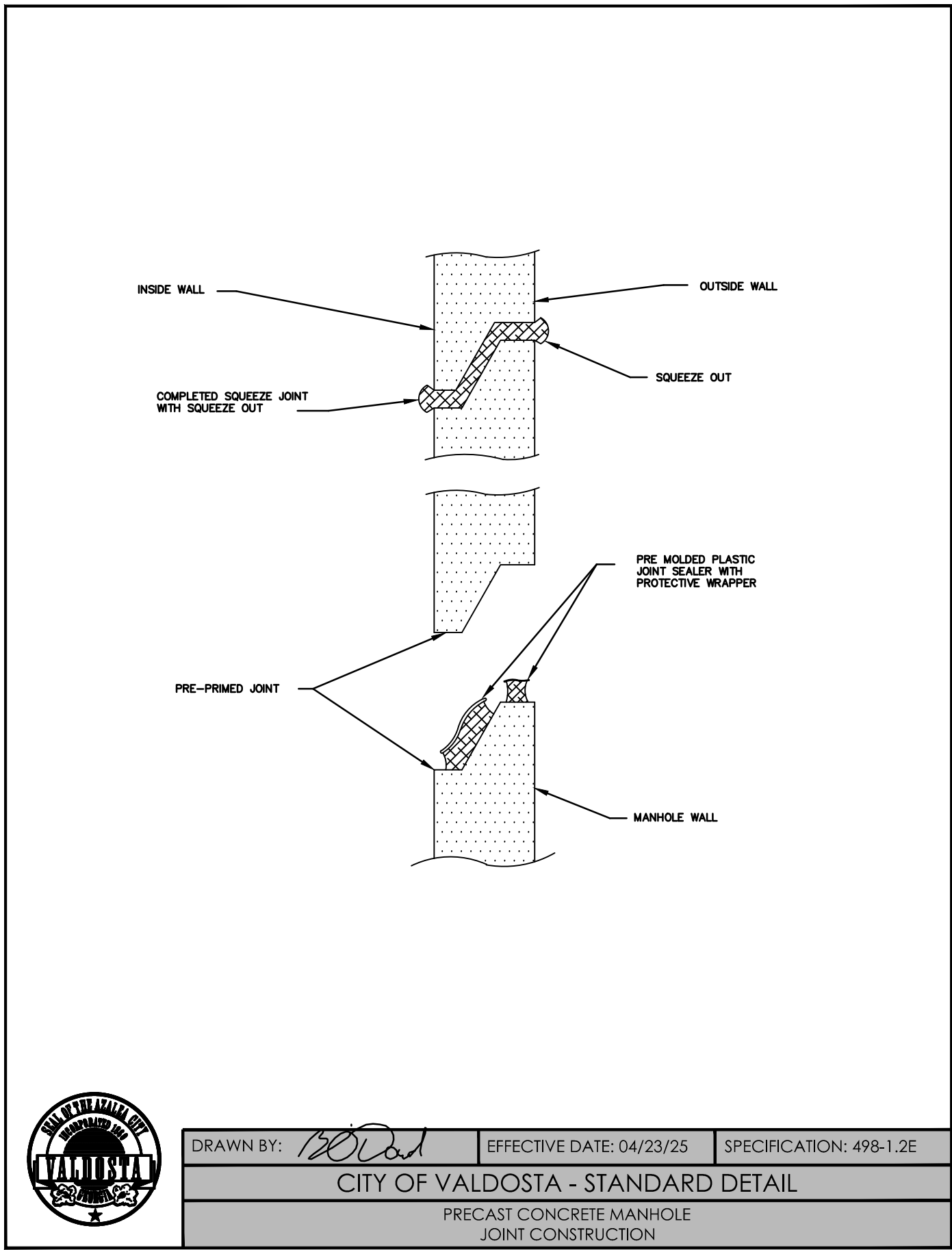
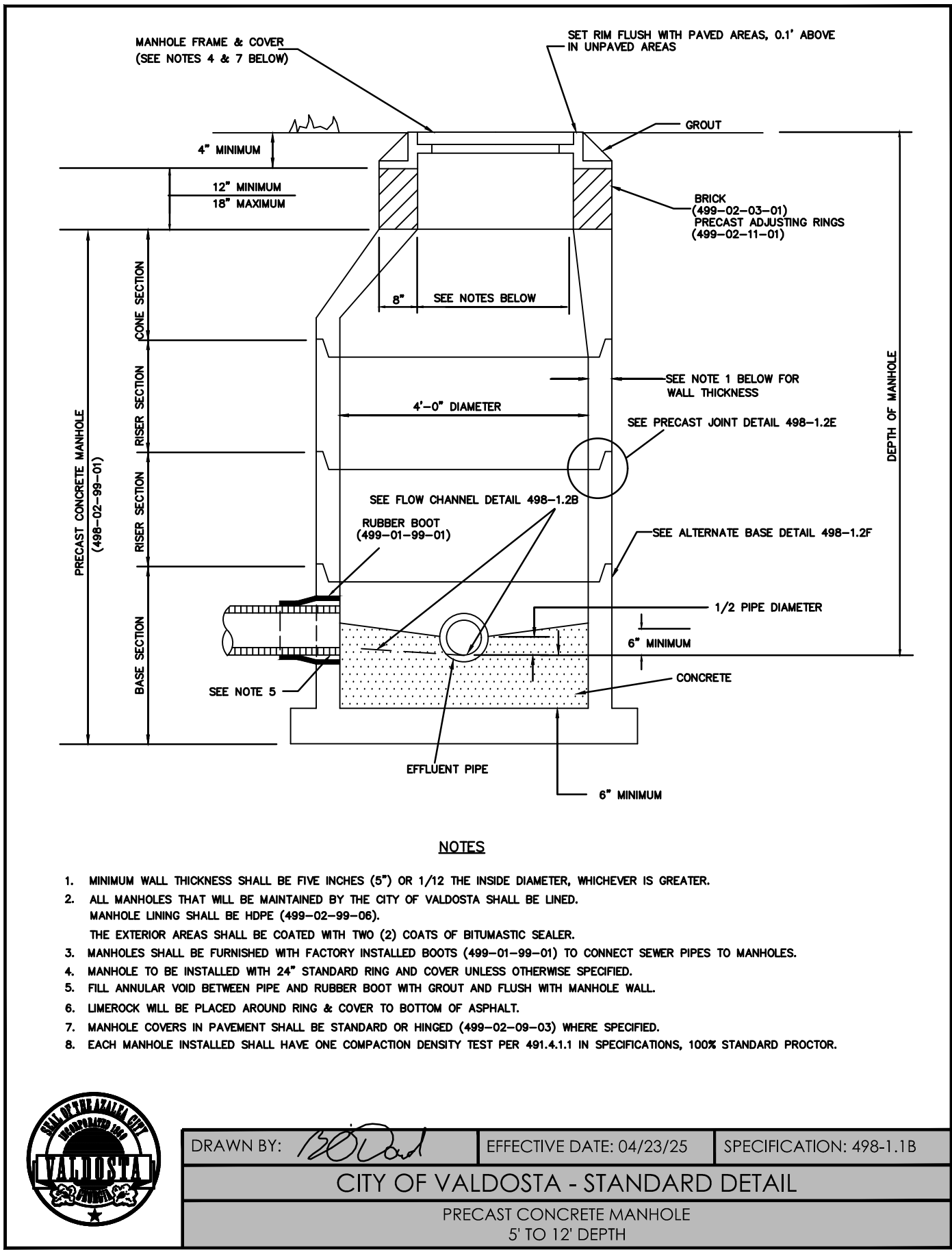
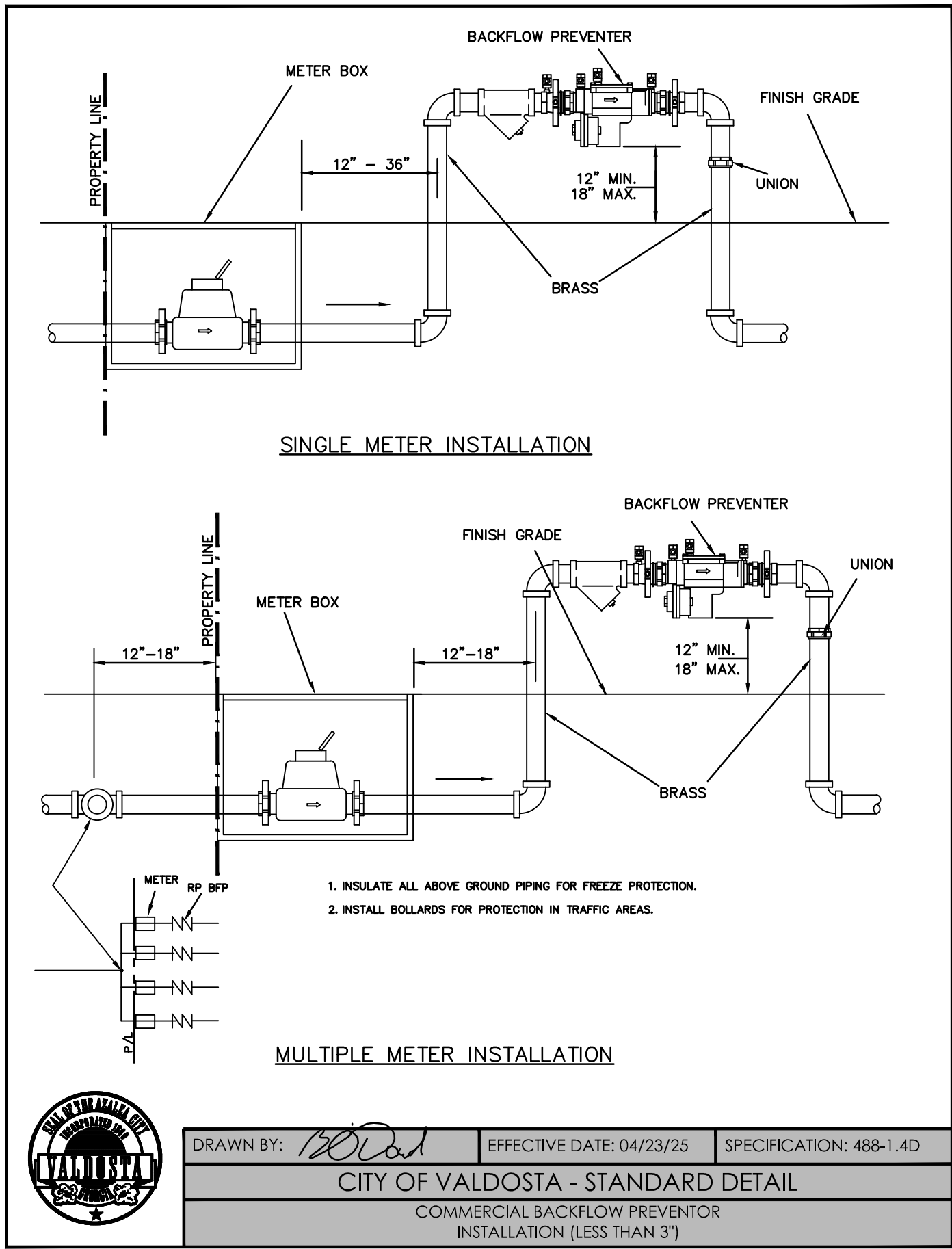
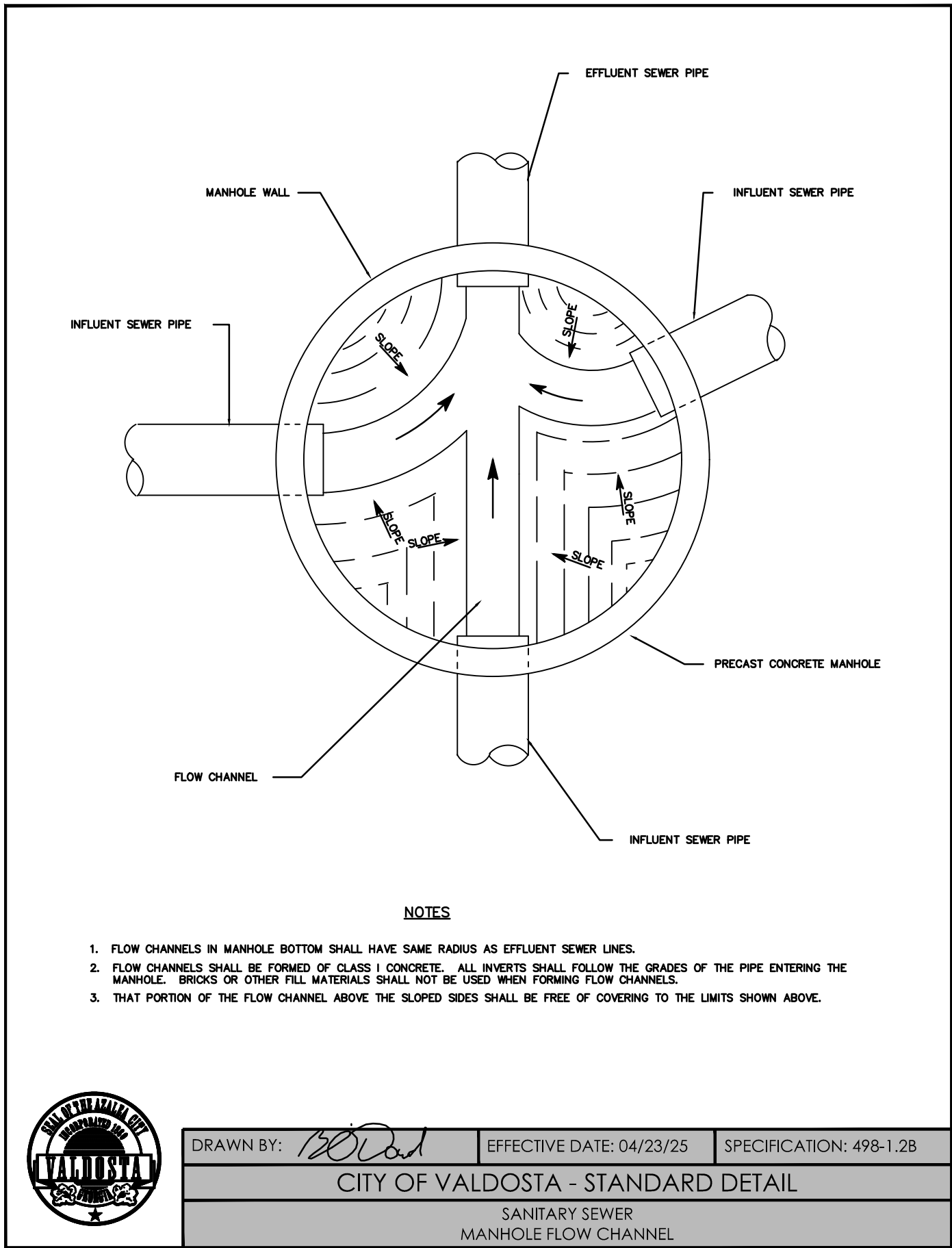
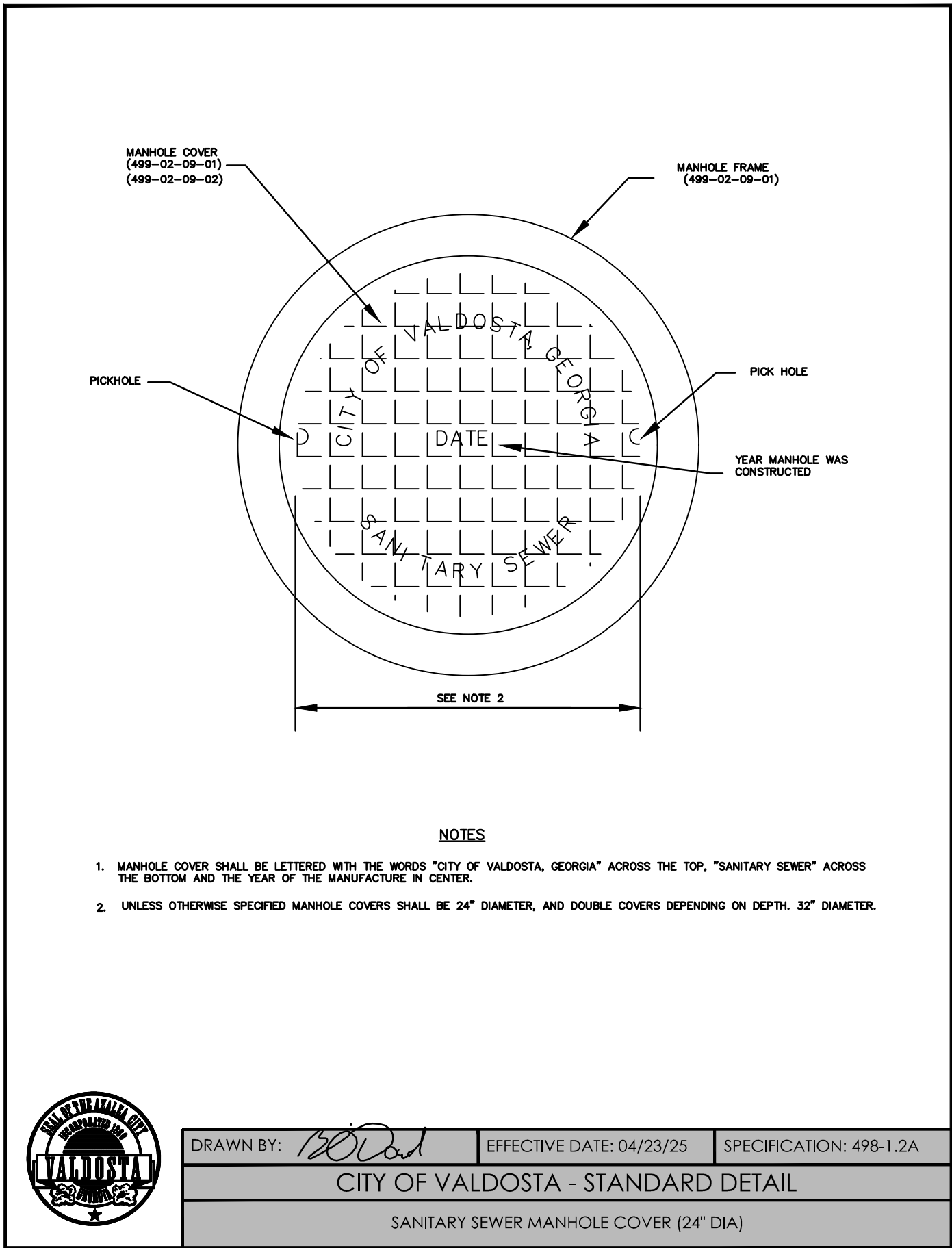
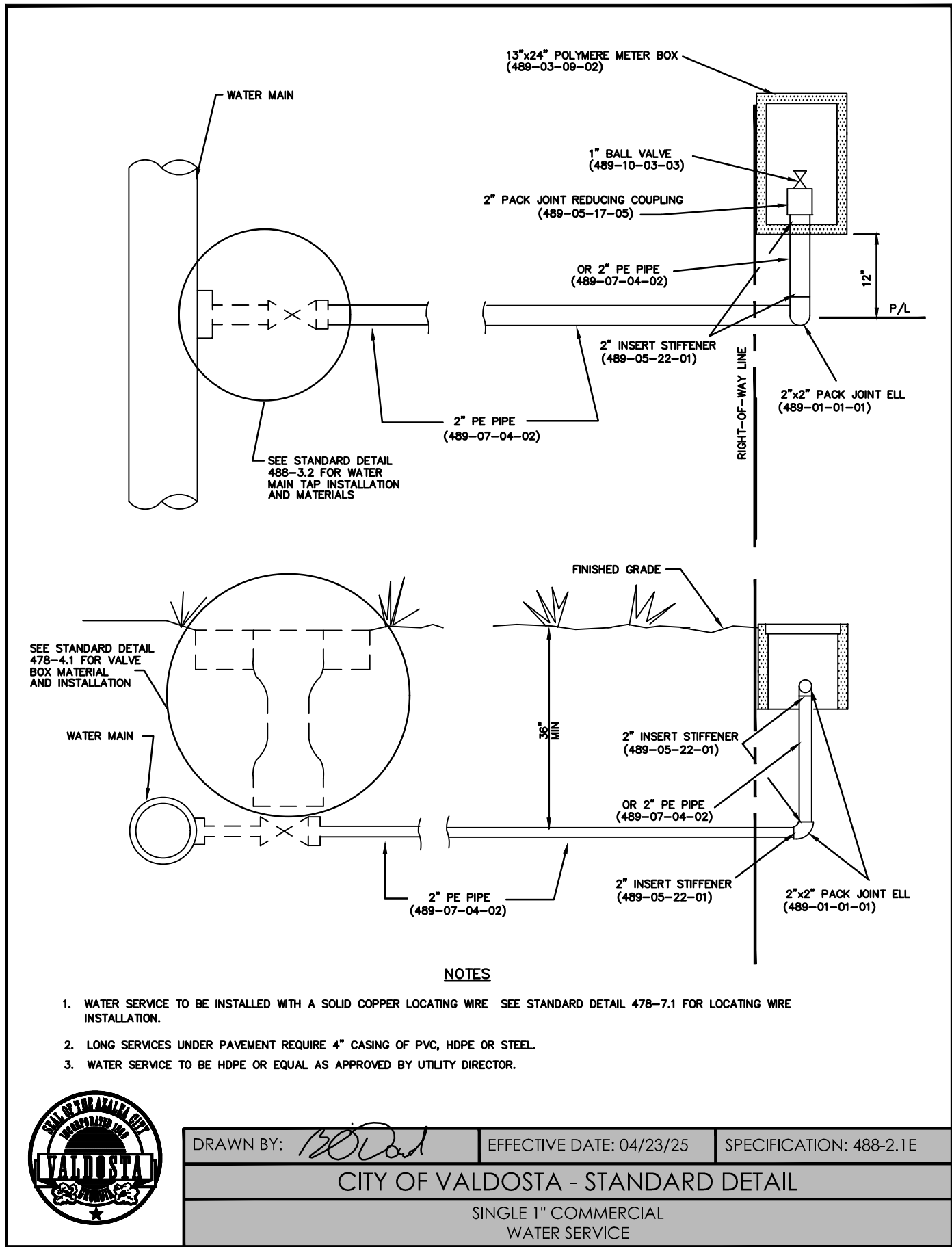
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IFB	04/23/25
AD1	05/15/25

COVER

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FOR
BID

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CITY OF VALDOSTA
ENGINEERING DEPARTMENT
KNIGHTS MILL
LIFT STATION REHABILITATION

REVISIONS	
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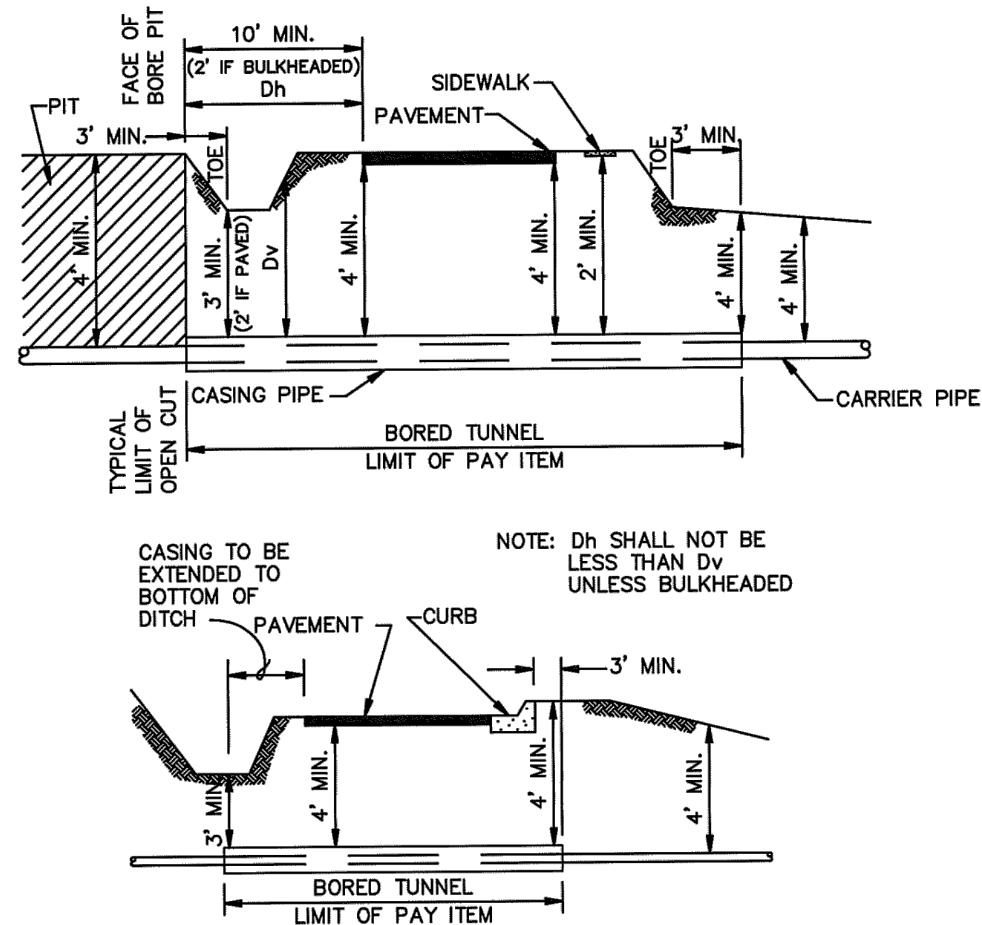
CONSTRUCTION
DETAILS (1 OF 2)

ISSUED
FOR
BID

FILENAME: REVDATE

USERNAME

NOTE: CONSTRUCTION IN GEORGIA DEPARTMENT OF TRANSPORTATIONS RIGHT-OF-WAY SHALL CONFORM TO D.O.T. STD. SPECIFICATIONS



HIGHWAY UTILITY CROSSING DETAIL
N.T.S.



LOWNDES COUNTY, GEORGIA
STANDARD DETAILS
WATER AND WASTEWATER

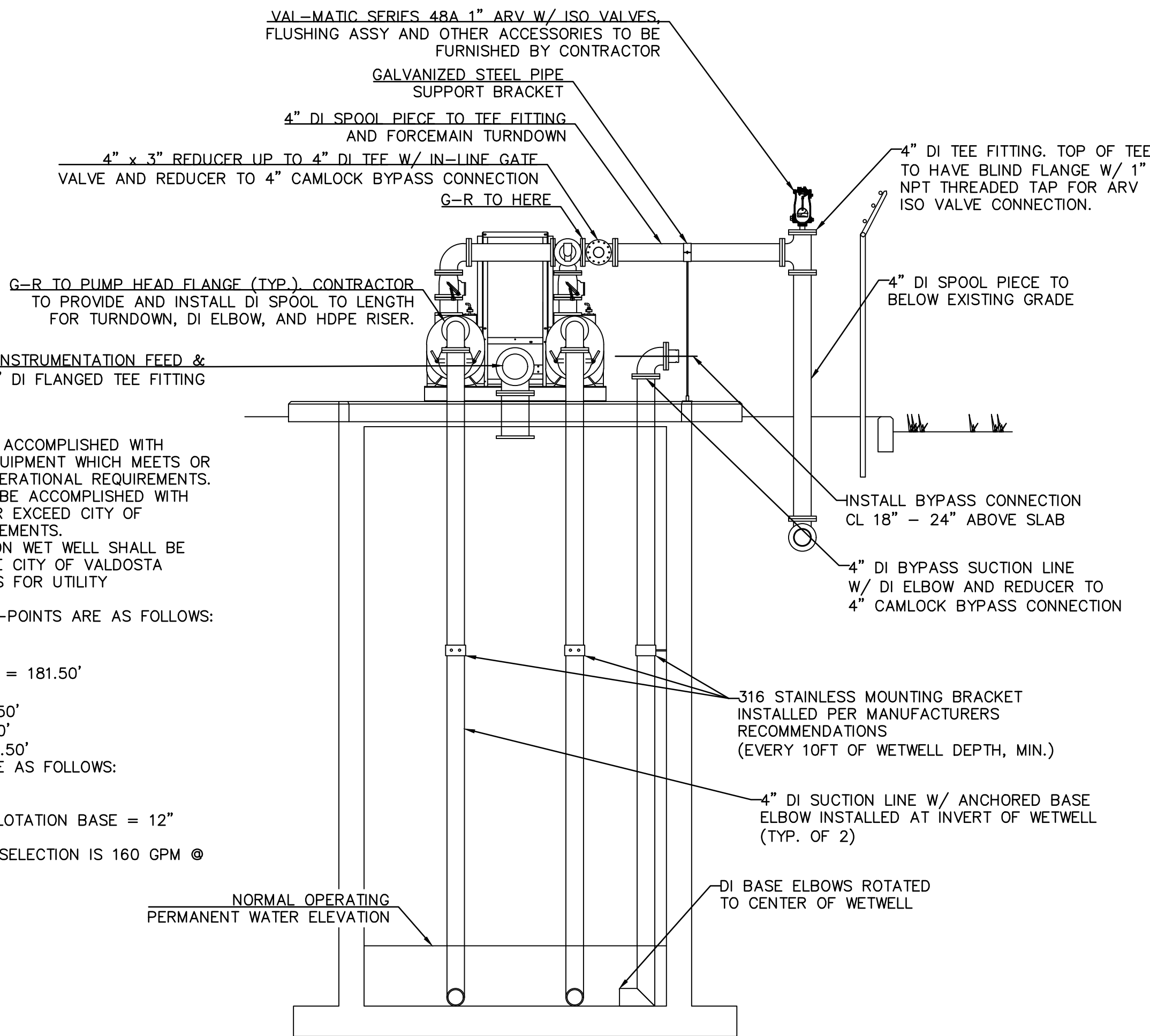
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DATE : JULY 1996
SCALE : N.T.S.
JOB NO.: 1215-015-01
SHT. LC-19

GENERAL NOTES:

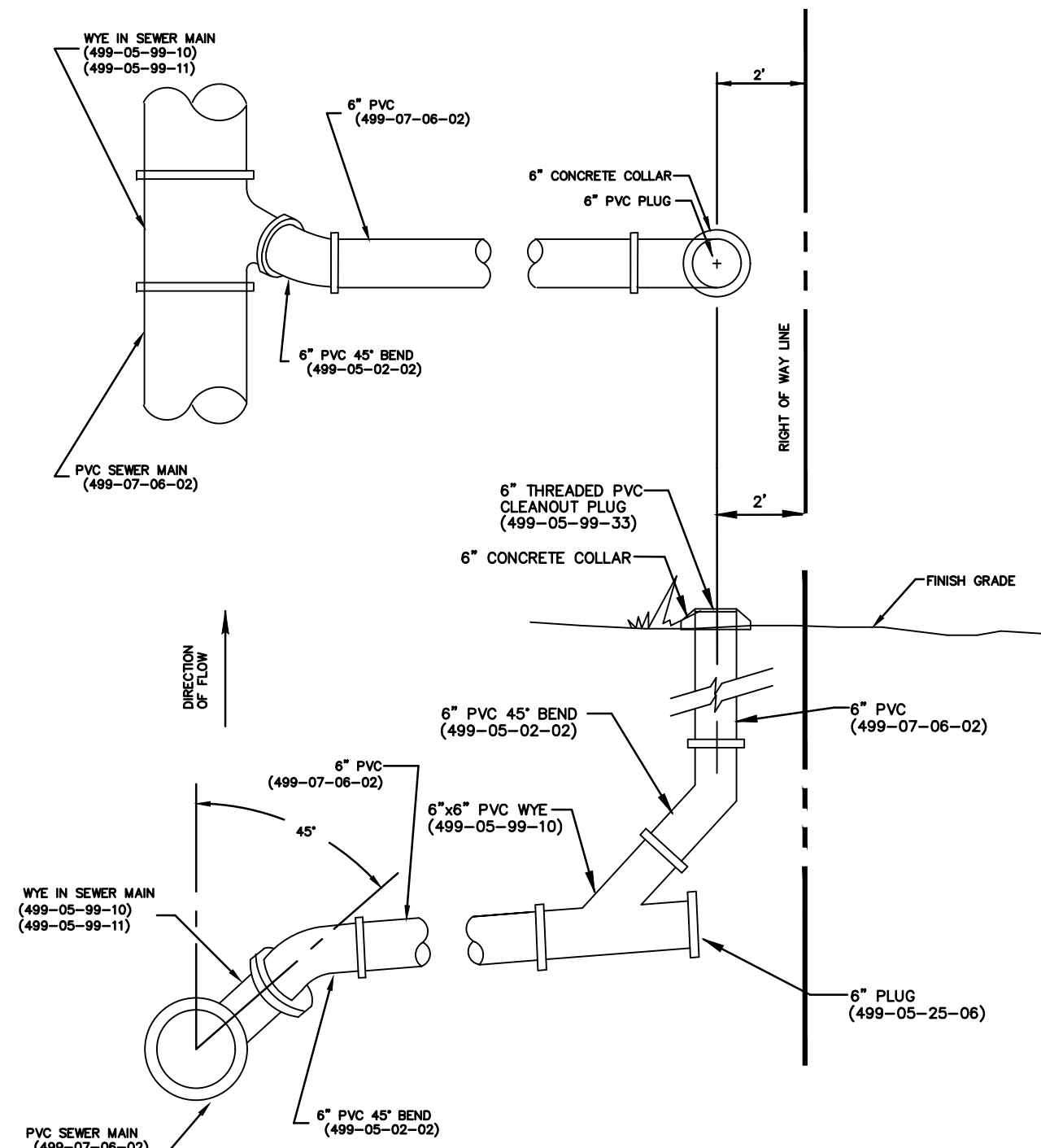
1. THE CONTRACTOR SHALL NOTIFY THE CITY OF VALDOSTA ENGINEERING DEPARTMENT IN WRITING OF THEIR INTENT TO BEGIN WORK 72-HOURS PRIOR TO THE COMMENCEMENT OF EFFORT ON THE PROJECT.
2. ALL WATER, SANITARY SEWER, AND STORM SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF VALDOSTA STANDARD SPECIFICATIONS FOR UTILITY CONSTRUCTION AS WELL AS THE CITY OF VALDOSTA LAND DEVELOPMENT REGULATIONS.
3. ALL WORK PERFORMED WITHIN THE GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH GDOT STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A CLEAN, SAFE, AND ORDERLY MANNER AND SHALL BE RESPONSIBLE FOR ANY HARM OR DAMAGES CAUSED BY THEIR NEGLIGENCE DURING THE WORK.
5. THE CONTRACTOR SHALL INSTALL PERMANENT GRASSING OVER ALL DISTURBED AREAS FOLLOWING COMPLETION OF THE WORK.
6. THE CONTRACTOR SHALL REMOVE ANY BORE SPOILAGE, SEDIMENT, OR OTHER SIDECAST MATERIAL GENERATED BY OR DURING THE WORK FROM THE WORK AREA AS WELL AS FROM AREAS ADJACENT TO THE WORK AREA.
7. ALL UNDERGROUND UTILITY WORK AND STORM PIPE INSTALLATION MUST BE INSTALLED BY A GA LICENSED UNDERGROUND UTILITY CONTRACTOR.
8. THE UNDERGROUND UTILITIES DEPICTED ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF FIELD CONDITIONS AND MAY NOT BE PERFECTLY REPRESENTATIVE OF UNDERGROUND UTILITY SIZE, MATERIAL, DEPTH, CONDITION, OR LOCATION.
9. THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITY LOCATIONS IN CONFLICT WITH THE PROPOSED WORK PRIOR TO COMMENCEMENT OF THE WORK. IF VARIATIONS ARE IDENTIFIED WHICH MATERIALLY AFFECT THE CONTRACTOR'S ABILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER TO RESOLVE THE CONFLICT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN 811 DIG LOCATES FOR UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO THE COMMENCEMENT OF WORK. IF WORK IS STALLED ON THE PROJECT FOR LONGER THAN 30 DAYS OR IF THE LOCATE MARKINGS ARE REMOVED FOR ANY REASON FROM THE WORK AREA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN AN ADDITIONAL LOCATE PRIOR TO RE-COMMENCEMENT OF WORK.
11. IF THE CONTRACTOR DISCOVERS ANY VARIANCE BETWEEN THE SURVEY PROVIDED AND THE CONDITIONS IN THE FIELD WHICH MATERIALLY AFFECTS THE CONTRACTOR'S ABILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
12. THE CONTRACTOR SHALL MAINTAIN CONTINUAL ACCESS TO PROPERTY IMPACTED BY OR ADJACENT TO THE WORK AREA.
13. THE CONTRACTOR SHALL MAINTAIN CONTINUAL UTILITY SERVICE TO PROPERTY IMPACTED BY OR ADJACENT TO THE WORK AREA.
14. THE CONTRACTOR SHALL ORGANIZE THE WORK AND PROVIDE SUFFICIENT EQUIPMENT SUCH THAT TRAFFIC REMAINS OPEN TO THE PUBLIC. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL LIMIT TEMPORARY ROAD AND LANE CLOSURE TIME, AND SHALL SCHEDULE SUCH TEMPORARY CLOSURES DURING TIMES OF LOW TRAFFIC VOLUME. THE CONTRACTOR SHALL MAKE USE OF A TRENCH BOX OR OTHER METHOD OF TRENCH STABILIZATION IN AN EFFORT TO LIMIT EXCAVATION WIDTHS - PARTICULARLY IN DEEP TRENCH DEPTHS. ALL EXCAVATION WORK SHALL MEET LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
15. THE CONTRACTOR SHALL PROTECT ANY ADJACENT ROADWAY IMPROVEMENTS FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS, MONUMENTS AND SURVEY MARKERS DESTROYED OR DISPLACED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

NOTES:

1. PRIMARY LEVEL SENSING TO BE ACCOMPLISHED WITH TRANSDUCER LEVEL SENSING EQUIPMENT WHICH MEETS OR EXCEEDS CITY OF VALDOSTA OPERATIONAL REQUIREMENTS.
2. SECONDARY LEVEL SENSING TO BE ACCOMPLISHED WITH FLOAT SENSORS WHICH MEET OR EXCEED CITY OF VALDOSTA OPERATIONAL REQUIREMENTS.
3. ALL MANHOLES AND LIFT STATION WET WELL SHALL BE LINED IN ACCORDANCE WITH THE CITY OF VALDOSTA STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.
4. LIFT STATION OPERATIONAL SET-POINTS ARE AS FOLLOWS:
 - 4.1. RIM ELEVATION = 195.50'
 - 4.2. SUMP ELEVATION = 173.50'
 - 4.3. INFLUENT INVERT ELEVATION = 181.50'
 - 4.4. ALL OFF = 175.50'
 - 4.5. LEAD ON ELEVATION = 179.50'
 - 4.6. LAG ON ELEVATION = 180.50'
 - 4.7. HIGH HIGH ELEVATION = 181.50'
5. WET WELL CHARACTERISTICS ARE AS FOLLOWS:
 - 5.1. WET WELL DIAMETER = 6FT
 - 5.2. WET WELL DEPTH = 22FT
 - 5.3. WET WELL INTEGRAL ANTI-FLOTATION BASE = 12" THICK, 9.5FT DIA
6. DESIGN DUTY POINT FOR PUMP SELECTION IS 160 GPM @ 92 FT TDH



LIFT STATION - COMPOSITE SECTION DETAIL
N.T.S.



DRAWN BY: *[Signature]* EFFECTIVE DATE: 04/23/25 SPECIFICATION: 498-2.1A

CITY OF VALDOSTA - STANDARD DETAIL

SINGLE SANITARY SEWER SERVICE



CITY OF VALDOSTA
ENGINEERING DEPARTMENT

KNIGHTS MILL
LIFT STATION REHABILITATION

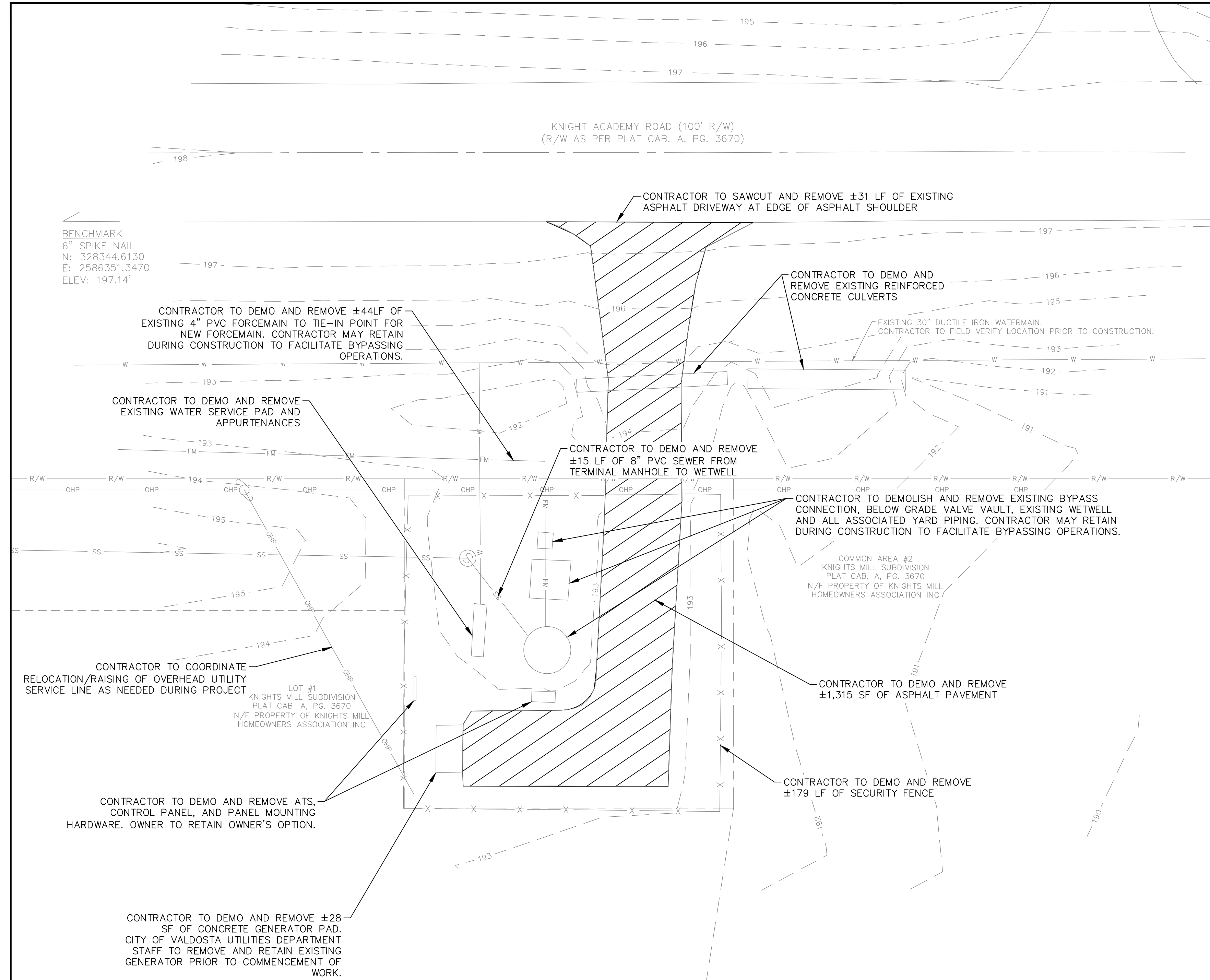
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IFB	04/23/25
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CONSTRUCTION
DETAILS (2 OF 2)

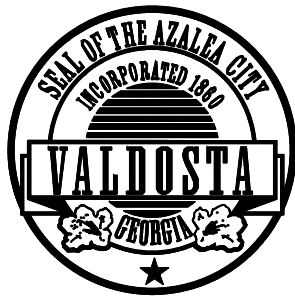
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C-3



DEMOLITION NOTES:

1. DEMOLITION SHOWN ON THIS PLAN IS A SCHEMATIC REPRESENTATION OF DEMOLITION REQUIRED TO ACCOMPLISH THE WORK. ADDITIONAL DEMOLITION MAY BE REQUIRED BEYOND THE ESTIMATED QUANTITIES SHOWN HEREON.
2. CONTRACTOR TO MULCH/REMOVE EXISTING VEGETATION WITHIN THE LIFT STATION SITE AND GRADING AREA.
3. CONTRACTOR TO COORDINATE RELOCATION OF EXISTING POWER SERVICE AS REQUIRED WITH SERVICE PROVIDER.
4. CONTRACTOR TO REMOVE ANY FOREIGN MATERIAL ENCOUNTERED BELOW GRADE WITHIN THE WORK AREA DURING CONSTRUCTION AND BACKFILL ALL VOIDS WITH SUITABLE BACKFILL MATERIAL.
5. CONTRACTOR TO PROVIDE CONTINUAL SANITARY SEWER SERVICE TO EXISTING CUSTOMERS DURING CONSTRUCTION OF THE IMPROVEMENTS. THE CONTRACTOR MAY MAKE SELECTIVE USE OF THE EXISTING INFRASTRUCTURE AND PHASE DEMOLITION SUFFICIENT TO ACCOMPLISH CONTINUAL SERVICE.
6. CONTRACTOR TO MAINTAIN THE LIFT STATION IN A SECURE AND SAFE MANNER DURING CONSTRUCTION.



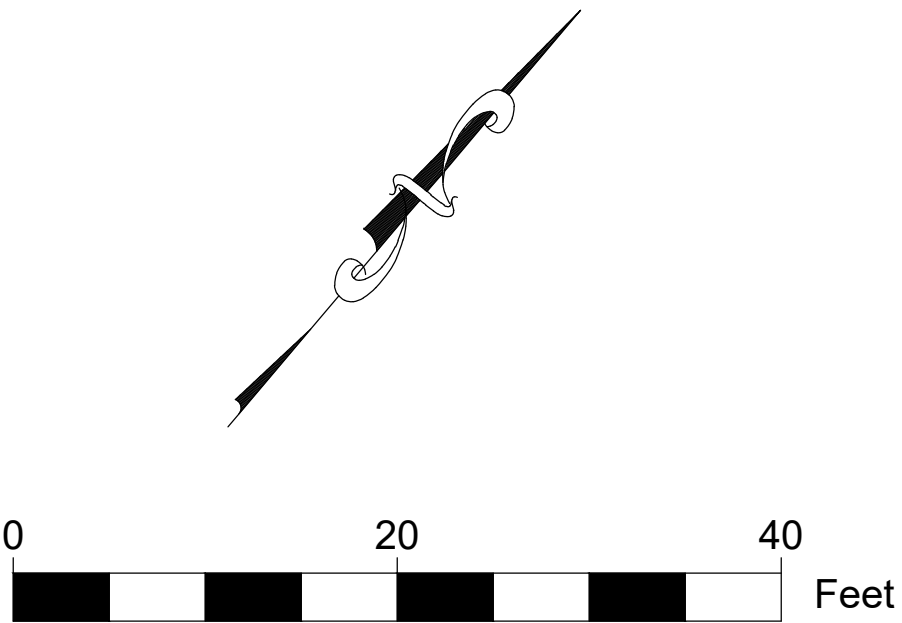
CITY OF VALDOSTA
ENGINEERING DEPARTMENT
KNIGHTS MILL
LIFT STATION REHABILITATION

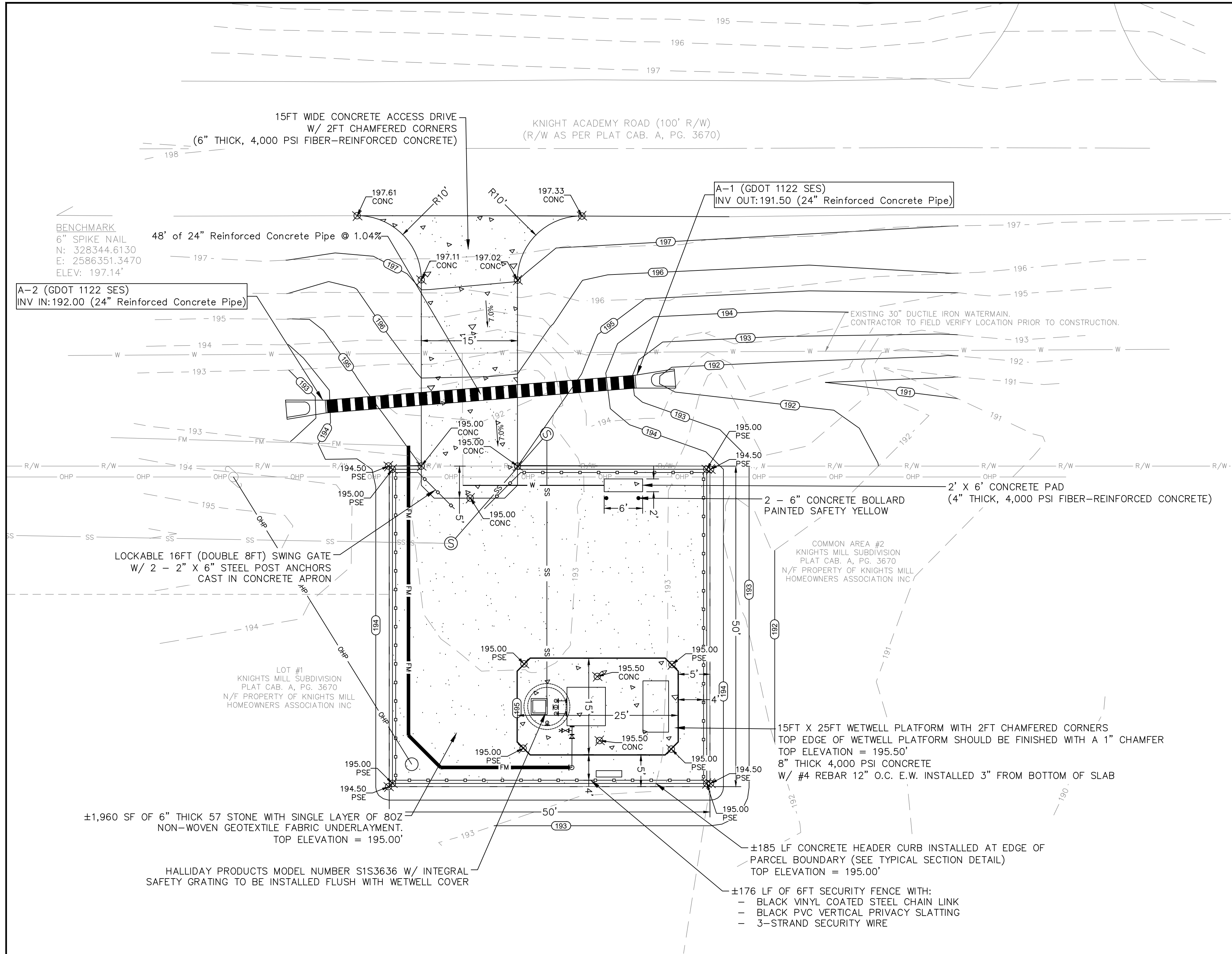
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AD1	05/15/25

LIFT STATION SERIES
EXISTING CONDITION
AND DEMO PLAN

ISSUED
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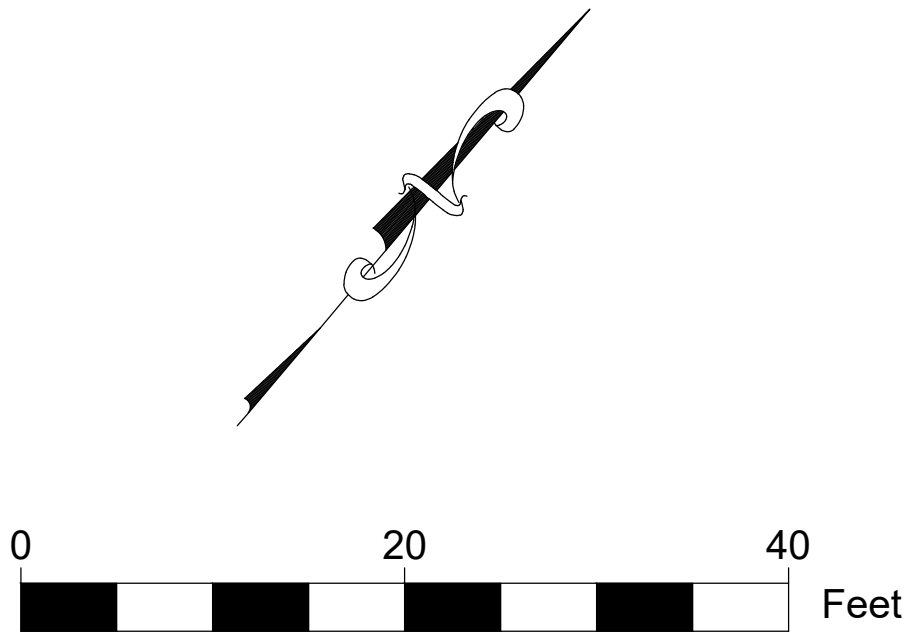
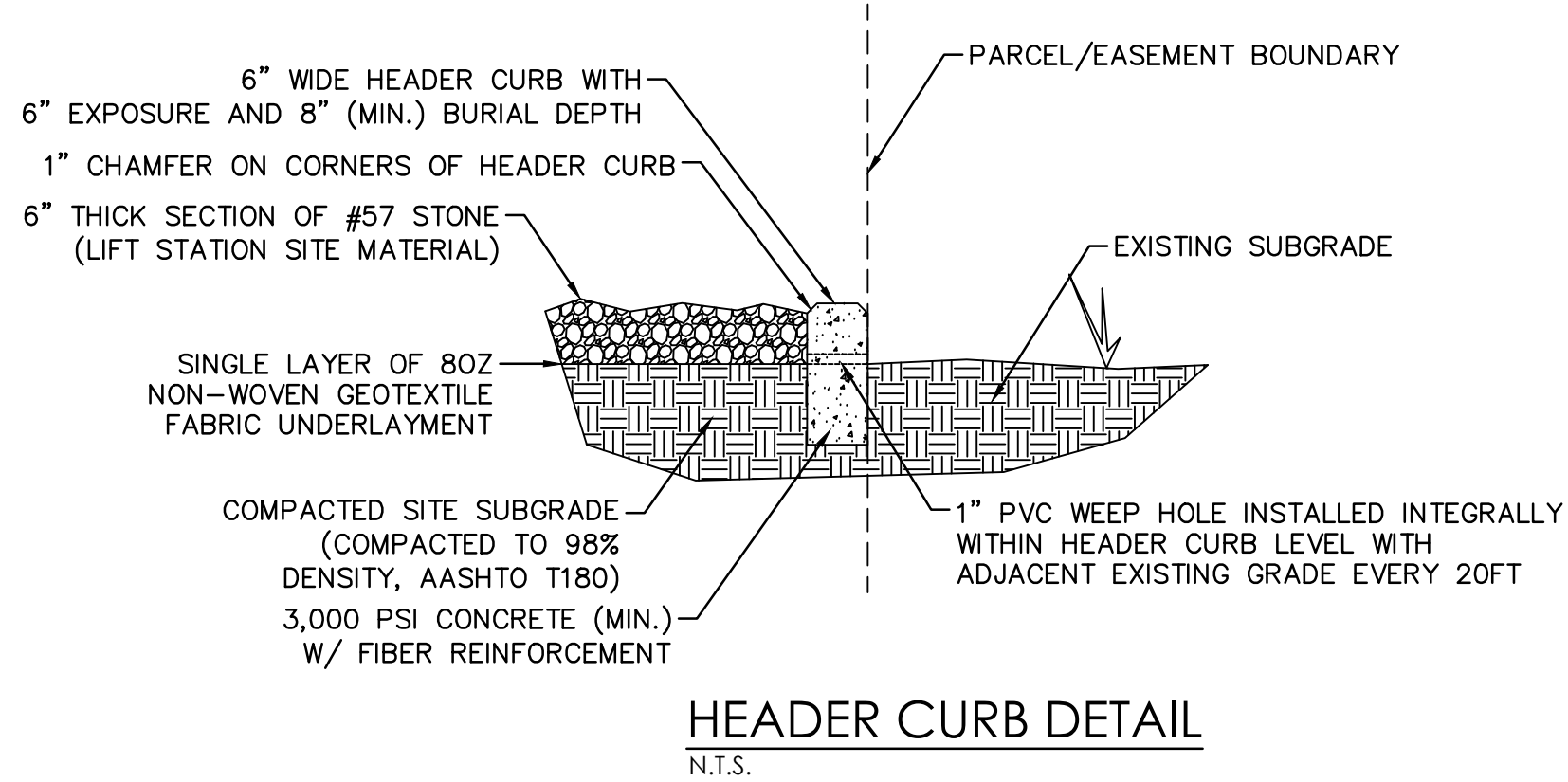
C-4
4 OF 7






SITE LAYOUT AND GRADING NOTES:

- 1. CONTRACTOR TO INSTALL IMPROVEMENT AS DEPICTED AND DIMENSIONED ON PLANS. NOT ALL DIMENSIONS ARE LABELED.
- 2. CONTRACTOR TO SAWCUT EDGE OF ASPHALT AT ALL CONNECTIONS TO THE PUBLIC STREET IN ORDER TO PROVIDE A CLEAN INTERFACE BETWEEN THE EXISTING ROADWAY IMPROVEMENTS AND THE NEW DRIVEWAY.
- 3. CONTRACTOR TO GRADE SITE TO DRAIN.
- 4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY NECESSARY SOIL AMENDMENTS IN ORDER TO FACILITATE ESTABLISHMENT OF FINAL STABILIZATION AND VEGETATIVE COVER. IF ADDITIONAL TOPSOIL IS REQUIRED TO ESTABLISH VEGETATIVE COVER, CONTRACTOR MUST PROVIDE.

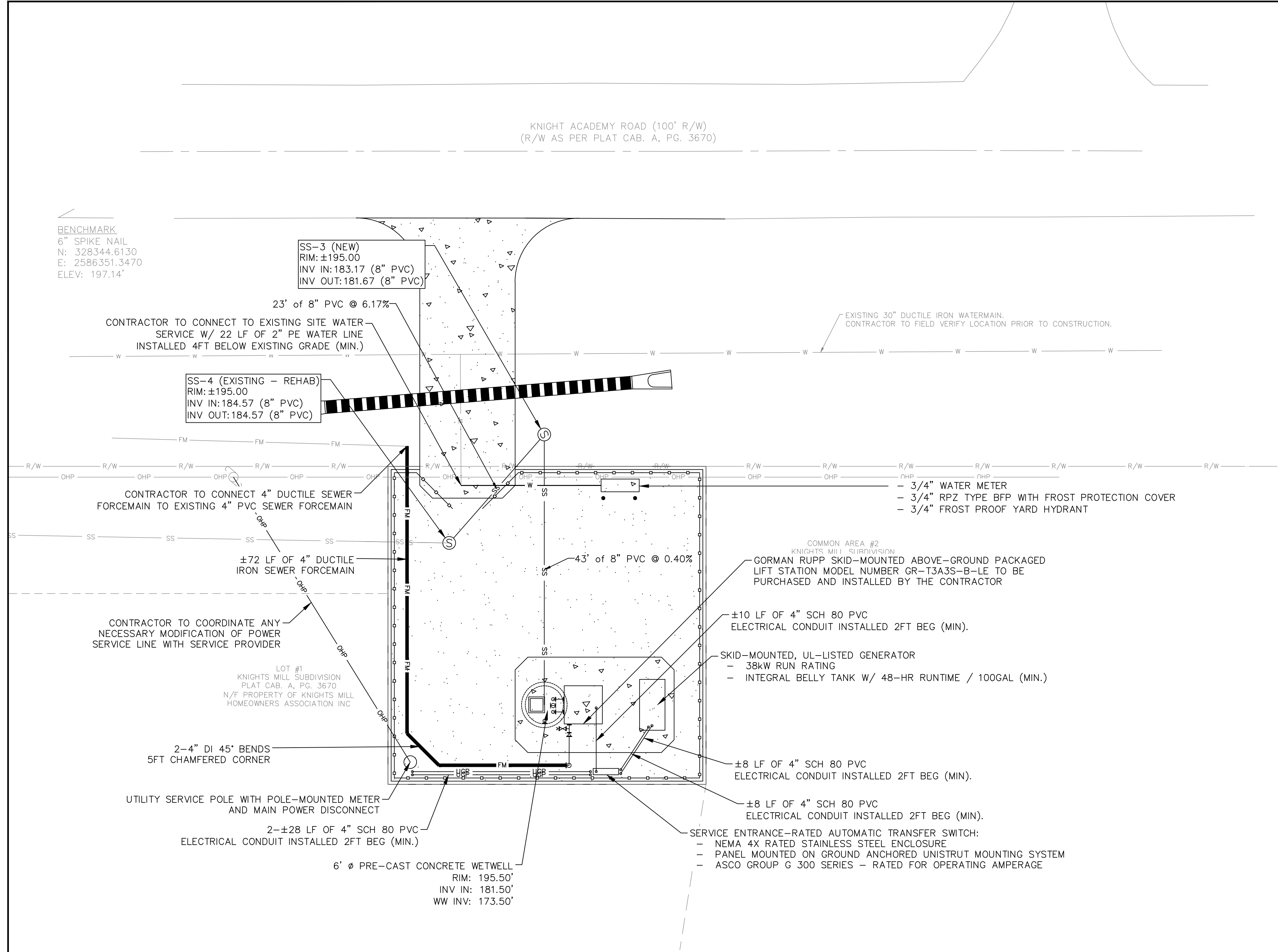




CITY OF VALDOSTA
ENGINEERING DEPARTMENT

KNIGHTS MILL
LIFT STATION REHABILITATION

REVISIONS	
ISS	DATE
IFB	04/23/25
AD1	05/15/25
LIFT STATION SERIES DIMENSIONED SITE AND GRADING PLAN	
ISSUED FOR BID	
C-5	
5 OF 7	



SITE PLUMBING AND ELECTRICAL NOTES:

- ALL DUCTILE IRON PIPING TO BE INSTALLED AND COATED (INTERIOR AND EXTERIOR) IN ACCORDANCE WITH CITY OF VALDOSTA OPERATIONAL REQUIREMENTS.
- 1.1. PUMP LOWER ELBOWS, RISER PIPES, UPPER ELBOWS, AND ABOVE GROUND PIPING SHALL BE COATED INSIDE WITH TNEC SERIES 431 PERMA-SHIELD PL OR APPROVED ALT.
- 1.2. ALL INTERIOR WET WELL PIPES AND ELBOWS INCLUDING PUMP LOWER ELBOWS SHALL BE COATED OUTSIDE WITH TNEC SERIES 431 PERMA-SHIELD PL OR APPROVED ALT.
- 1.3. ALL ABOVE GROUND PIPING SHALL BE PAINTED USING SHERWIN-WILLIAMS ACROLON 218 HS GLOSS POLYURETHANE SW 4072 CEDAR GREEN TOP COAT. BASE COAT FOR THE SHERWIN-WILLIAMS TOP COAT IS SHERWIN-WILLIAMS MACRO-POXY 646.
2. CONTRACTOR TO PROVIDE FINAL SHOP DRAWINGS/SPECIFICATIONS FOR GR PACKAGED LIFT STATION, SKID-MOUNTED GENERATOR ASSY., WETWELL LID, AND WETWELL BASE SECTION FOR REVIEW FOR CONFORMITY WITH CITY OF VALDOSTA OPERATIONAL REQUIREMENTS PRIOR TO PURCHASE.
3. CONTRACTOR TO VERIFY GENERATOR WATTAGE REQUIREMENTS BASED ON PUMP CONTROL PANEL SCHEDULE PRIOR TO PURCHASE.
4. CONTRACTOR TO PURCHASE AND INSTALL GENERATOR, AUTOMATIC TRANSFER SWITCH, SITE WIRING AND CONDUIT. THE SITE CONDUIT SHOWN ON THIS PLAN IS SCHEMATIC IN NATURE. IF ADDITIONAL CONDUIT OR LARGER CONDUIT IS REQUIRED, PLEASE SUBMIT A REVISED SITE CONDUIT PLAN FOR CITY OF VALDOSTA STAFF REVIEW PRIOR TO INSTALLATION.
5. HIGH VOLTAGE, LOW VOLTAGE, AND INSTRUMENTATION WIRING SHALL BE CONTAINED WITHIN SEPARATE RUNS OF CONDUIT.



CITY OF VALDOSTA
ENGINEERING DEPARTMENT

KNIGHTS MILL
LIFT STATION REHABILITATION

REVISIONS

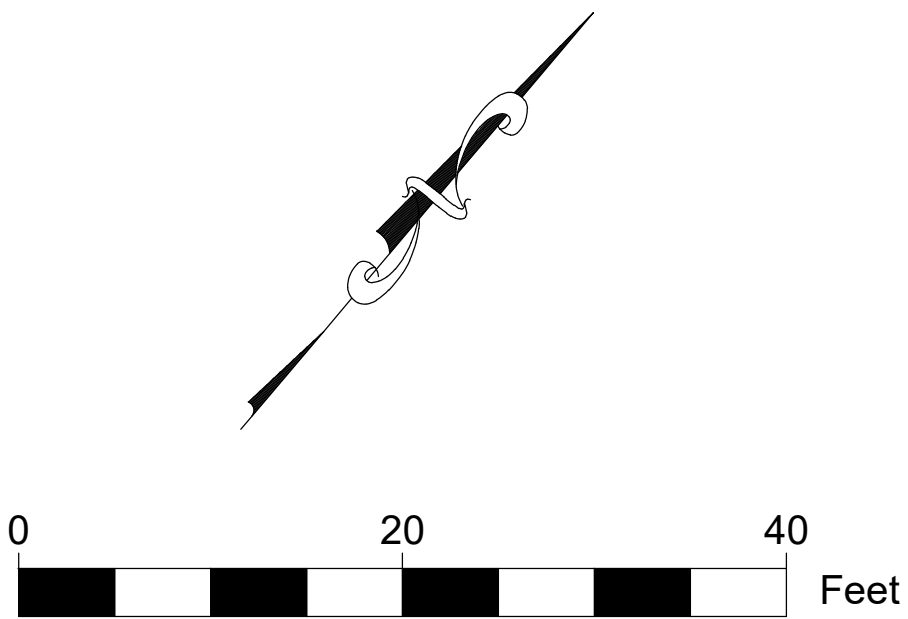
ISS	DATE
IFB	04/23/25
AD1	05/15/25

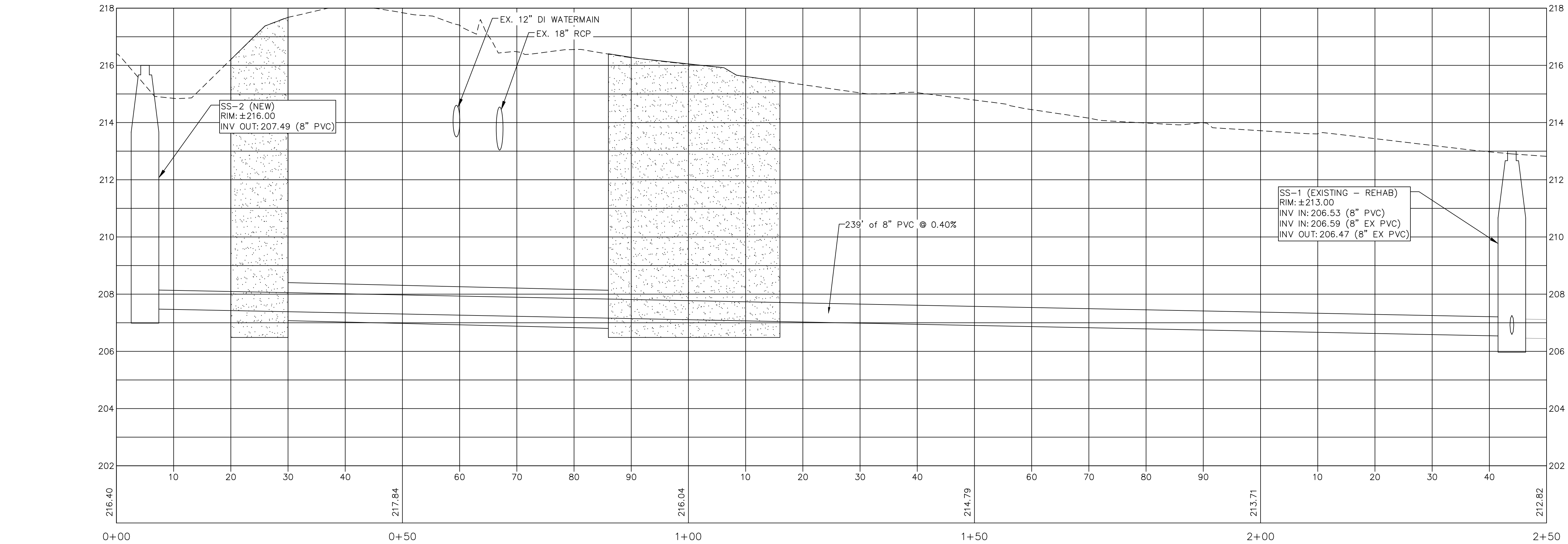
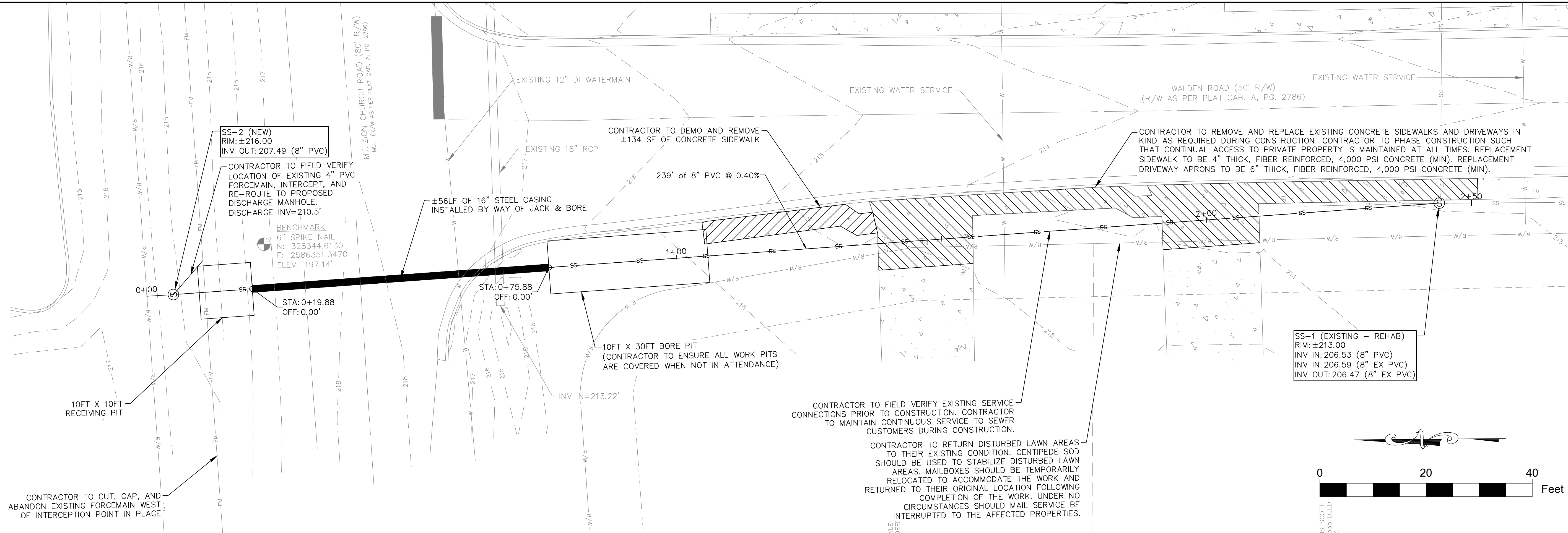
LIFT STATION SERIES
SITE PLUMBING AND
ELECTRICAL PLAN


ISSUED
FOR
BID

C-6

6 OF 7







CITY OF VALDOSTA
ENGINEERING DEPARTMENT
KNIGHTS MILL
LIFT STATION REHABILITATION

REVISIONS	
ISS	DATE
IFB	04/23/25
AD1	05/15/25

GRAVITY SEWER SERIES
PLAN AND PROFILE

ISSUED
FOR
BID

C-7
7 OF 7

STATION INFORMATION

GENERAL DATA

Application Type	Lift Station
Station Type	LE
Voltage	3/60/480

PUMPS AND OPTIONS

PUMP(S)

Pump Model	Quantity (2), T3A3S-B /WW
Design Condition	160 GPM @ 92 Feet TDH
Reprime Lift	25 Feet
Horsepower	15 HP

PUMP OPTIONS

Spare Parts Kit	Quantity (1) For T3A3S-B /WW
Drain Kit	Quantity (1) Hose(s) 10 Feet Long
Volute Casing Heaters	Pump(s) Shall Be Equipped With A Casing Heater

CERTIFIED TESTING

TESTING REQUIREMENTS

Certified Pump Performance Testing	Pump(s) To Be Tested To HI Grade 2B At 160GPM @ 92 FT TDH on Dynamometer
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BASE OPTIONS

BASE TYPE

Base Type and Orientation	Vertical In-Line Pump(s) To Be Mounted On Common Base
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MOTOR DATA

MOTOR OPTIONS

Motor Enclosure Type	254T - 15 HP Motor(s) Shall Be Supplied With TEFC Enclosures
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STATION PIPING

SUCTION PIPING

Suction Size	4" Flanged Elbow For Customer Connection
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DISCHARGE PIPING

Check Valve	4" Lever & Spring Check Valve
Customer Connection	4" Connection. Location to be Left (As viewed from the shaft end of the pump)

Discharge Isolation Valve Type	3-Way Plug Valve, with Lever Actuator
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AIR RELEASE VALVE(S)

NOTE: Confirm Static Discharge Head at time of Order

Air Release Valve Type	GRP33-07 Automatic Air Release Valve
------------------------	--------------------------------------

ARV Isolation Type	Ball Valve(s)
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Static Discharge Head	33 Feet
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PIPING OPTIONS

Gauge Panel Kit(s)	Quantity (2), Range 0-140'
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CONTROL PANEL

ENCLOSURE

Control Panel Rating	NEMA 4X (Outdoor - Direct Sunlight) 304 Stainless Steel Enclosure
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NOTE: NOTE: Provide Ice Cube HVAC for control panel Model IQ8000V16-120-SS304-CP3-N4X. Leave 5.96" x 4.08" x 1.73" (modem size) space inside of Control Panel for mounting a modem in the upper left-hand corner, customer mounting.

Panel Size/Shipment Method	60" H x 36" W x 16" D Panel To Be Mounted & Wired
----------------------------	---

Main Incoming Connection	Main Lug For Incoming Connection, Rated for 10kA SCCR
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TRANSFORMER(S)

Internal Transformer	A 5KVA internal power transformer will be supplied for 120V single phase loads inside the control panel
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PRIMARY MOTOR STARTER

Primary Motor Starter Type	AB SMC-Flex RVSS
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PRIMARY CONTROL SYSTEM

Primary Controller	Allen Bradley CompactLogix L306
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Operator Interface Series	6.5", AB - PanelView Plus 7
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Primary Sensor	I.S. Submersible XDCR w/ SPD
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BACKUP CONTROL SYSTEM

Backup Controller	Smart Relay [Eaton Easy4]
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Backup Sensor	Float Controls (I.S.)
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Backup Floats Quantity	Quantity (2) Floats Provided For Redundant Control Of The Pump(s)
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Backup Float #1	Low Level Float / Pumps Stop
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Backup Float #2	High Level Float / Pump Start
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Float Chain	30 Feet of SST Chain
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CONTROL PANEL OPTIONS

NOTE: UL / C.S.A Listing U.L. Listed (Control Panel Only)

Interior Control Panel Lights	Quantity (1) Light(s) Included Inside The Panel
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Control Panel Heater	A Panel Heater Will Be Supplied To Reduce Humidity Within The Control Panel.
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Control Panel Surge Protective Device	A Type 2 SPD Will Be Furnished To Provide Protection From Overvoltage Surges.
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Voltage Alert Indication	A Detector Display Shall Be Provided To Display Voltage Status Within The Panel
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Additional Breakers	Quantity (5) Breaker(s) Included
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Additional Breakers	1. 120VAC, 20AMP Breaker (Spare) 2. 120VAC, 20AMP Breaker (Spare) 3. 120VAC, 20AMP Breaker (Spare) 4. 120VAC, 20AMP Breaker (Spare) 5. 120VAC, 20AMP Breaker (Spare)
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Uninterruptible Power Supply	PULS, 5AH, 24VDC Output UPS
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ALARMS

NOTE: Mount light and horn to the control panel

Alarm Light Flasher	LED Alarm Light Flasher Included
Alarm Light	Weatherproof LED Light, Mounted on Control Panel By Gorman-Rupp
Alarm Horn	Weatherproof Horn On Conduit Box, Mounted on Control Panel By Gorman-Rupp

INPUTS AND OUTPUTS

Dialer	10 Channel Alarm Agent Dialer, Mounted & Wired
Dialer	1. Pump #1 Fault 2. Pump #2 Fault 3. High Water Alarm 4. Low Water Alarm 5. Phase Fail 6. Backup Floats Active 7. Backup High Temp 8. Pump #1 Run 9. Pump #2 Run 10. Unused
External Source Contacts	The Following Digital Contact(s) Will Be Wired To Terminal Blocks For Customer Connection:
External Source Contacts	1. Pump #1 Fault 2. Pump #2 Fault 3. High Water Alarm 4. Low Water Alarm 5. Phase Fail 6. Backup Floats Active 7. Backup high temp 8. Pump #1 Run 9. Pump #2 Run
Analog Outputs	Quantity (1) Analog Output(s) Included
Analog Outputs	1. Wet Well Level
Analog Out Surge Protective Device	Analog Output Circuit Will Be Furnished With A SPD To Provide Protection From Overvoltage Surges.



Motor Control Calculation

Volts: **460**

Ph: **3**

Hz: **60**

Project: **Knights Mill Valdosta GA**

		508A, Tbl 50.1	508A, 29.6 &Tbl 28.1	50.1 x 1.25	508A, 28.3 &Tbl 28.1	508A, Tbl 25.1	508A, Tbl 31.1 (250%)	508A, Tbl 31.1 (175%)	508A, Tbl 15.1	508A, Tbl 15.1	(200% approx)	508A, Tbl 15.1	508A, 28.3.3		508A, 32.3	508A, 32.3
Load	hp/kva/ kw	FLA	75 C Internal Wire (Cu) see note 2	Field Wire Amps	75 C Field Wire (Cu) see note 2	Field Wire Bend Space (1 per term)	Max Mtr CB	Max Mtr Fuse	Mtr Gnd (CB) see note 1	Mtr Gnd (Fuse) see note 1	G-R Std Mtr CB	Mtr Gnd (G-R CB) see note 1	Main G-R CB Calc Thermal/Mag	Main Wire Calc 75c	Main CB Calc Thermal/Mag	Main Fuse Calc Inverse Time
Largest Motor	15	21.00	10	26.3	10	1.5"	60	40	10	10	50	10	50	26.25	60	40
Motor 2	15	21.00	10	26.3	10	1.5"	60	40	10	10	50	10	21.00	21.00	21.00	21.00
Motor 3		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00
Motor 4		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00
Motor 5		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00
Motor 6		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00
Motor 7		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00
Motor 8		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00
Xfmr 1ph	5	10.87	Based on Pri C/B				See Xfmr Std						13.59	13.59	13.59	13.59
Xfmr 3ph		0.00	Based on Pri C/B				See Xfmr Std						0.00	0.00	0.00	0.00
Heater 1ph		0.00	N/A	0.0	N/A	0	N/A	N/A	N/A	N/A			0.00	0.00	0.00	0.00
Heater 3ph		0.00	N/A	0.0	N/A	0.0	N/A	N/A	N/A	N/A			0.00	0.00	0.00	0.00
Total													84.59	60.84	94.59	74.59

Notes: 1 The equipment ground conductor is not required to be larger than the current carrying field wire. Per UL 508A, 15.1 Exception

2 Use internal wire size for IEC control only. Use field wire sizes internally for Nema control.

Rev:

G-R Main C/B
80

Main Wire Size
6

Max Main C/B
90

Max Main Fuse
70

Main Gnd
8

Main Bend Space
1.5"

Main Gnd
8

Main Gnd
8



ENGINEERING DEPARTMENT

Notes for Mandatory Pre-bid Meeting for Knights Mill LS Rehab

Held at 10am in the offices of the City Engineering Department, on Tuesday, 05/06/2025. The Sign-In attendance sheet is attached to these Notes. A summary of items discussed follows:

1. Scope of work: The work consists of the installation of demolition and reconstruction of an existing sewage lift station, installation of roughly 200 linear feet of new gravity sanitary sewer, reconnections to 4" sanitary sewer force main, and the associated related work.
2. Location of Work: The location of the work is in the northwest area of the City of Valdosta, more specifically at two locations:
 - a) The existing sewage lift station is on the south side of Knights Academy Road and east of the Knights Mill Subdivision entrance, Knights Mill Drive, and
 - b) The gravity sewer main work is on Mount Zion Church Road at the intersection with Walden Road at the Walden Woods Subdivision.
3. Schedule for work is 300 calendar days, and liquidated damages are \$200/day. Question was raised regarding schedule and equipment fabrication/delivery, and those in attendance agreed that contract time schedule was reasonable.
4. Bid Opening will be in the same room as the Pre-Bid Meeting (large Engineering conference room) in the City of Valdosta Engineering Offices, City Hall Annex Building, 300 N. Lee Street, Valdosta, GA. Time will be 10:00 AM, Local Time, on Thursday, May 22, 2025
5. Clarifications and discussion:
 - a) Access to and consideration of adjoining land owners' properties are required. The work will be performed under live traffic and is adjacent to existing residential subdivisions.
 - b) Bypass pumping costs shall be part of the Lift Station price. The existing LS is operating (i.e. – not in bypass).
 - c) For questions raised during Pre-Bid Meeting, Engineering staff requests that these questions also be submitted in writing.
 - d) Questions will be received until close of business on Thursday, May 15, 2025. It is the intention of city staff to present the bid to city Council for consideration and award during their first meeting of June, 06/05/2025.

- e) Question: what are the current flowrates at the existing lift station?
COV staff will research and provide information.
- f) Question: Will the city retain ownership of the existing generator? The current generator is not functional; COV staff will research and provide information.
- g) The City Of Valdosta will retain all existing lift station pumping equipment.
- h) Existing sanitary sewer manhole #SS-1 (sheet C-7) will remain in place; the new gravity main will connect to the existing manhole.
- i) It was noted that there is recent telecom fiber installation in the area of Walden Woods Subdivision and on Mount Zion Church Road. These underground utility lines are not shown on the plans.
- j) The City Of Valdosta will handle all Lowndes County right-of-way encroachment permitting for the project. A significant portion of the work is within Lowndes County right-of-way.
- k) An addendum will be issued for plan revisions, including:
 - 1) pump size revisions.
 - 2) Control panel schedule information.
 - 3) generator size information
- l) In general discussions it was noted that the existing force mains within County unimproved dirt road areas nearby are ductile iron rather than HDPE or PVC.

These notes are taken from the memory and hand notations of the writer. If there are any significant errors, please report them to the writer within five days of the receipt of these notes.

Submitted: Charlie Clark, P.E., Engineering Project Manager

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