VALDOSTA
A City Without Limits

ENGINEERING DEPARTMENT

ADDENDUM NUMBER ONE (1)

Issued 04/24/2025

Project: INNER PERIMETER ROAD UTILITIES EXTENSIONS
Project No. 25-05-702
Bid Opening Date & Time: May 8, 2025 – 10:00am
Owner: City of Valdosta, Georgia

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1. Pre-Bid Meeting Notes are issued and attached.

2. Responses to Questions and Requests-for-Information received to date are issued and attached. Referenced GDOT standards are attached.

3. An updated and revised Unit Cost Schedule/Proposal Form is issued and attached in both PDF (includes signature and cover pages) and Excel worksheet format (Unit Cost Schedule/Bid Form only).

4. Per RFI Responses, all piping inside the lift station wet well shall be Ductile Iron Pipe (DIP) rather than HDPE.

5. Clarification of Specifications regarding DIP lining and exterior coating and paint:
    a. Pump lower elbows, riser pipes, upper elbows, and above ground piping shall be coated inside with TNEMEC Series 431 Perma-Shield PL, a high-performance polyamine ceramic epoxy lining.
    b. All interior wet well pipes and elbows including pump lower elbows shall be coated outside with TNEMEC Series 431 Perma-Shield PL.
    c. 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.

Submitted,

Charlie Clark, P.E.
Engineering Services Manager

City Hall Annex • Post Office Box 1125 • 300 N. Lee Street • Valdosta, GA 31603-1125
Telephone (229) 259-3530 • Fax (229) 333-1884

VALDOSTA
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ENGINEERING DEPARTMENT

MEMORANDUM – PREBID MEETING NOTES

Project: **INNER PERIMETER ROAD UTILITIES EXTENSIONS**
Date/Time: **04/22/2025 10:00am**
Location: **offices of City of Valdosta Engineering Department.**

The mandatory Pre-Bid Meeting was held at 10 am in offices of Valdosta Engineering Department. See attached Attendance Sheet for a list of those present. Two half-sized plan sets were available for review. Following introductions, Mr. O'Dowd invited questions and comments. The following is a summary of items discussed:

A. This project will provide water and sewer service to adjoining properties.
B. Both Ace Electric and Landmark Holiness Church have active construction underway. The Ace Electric project's anticipated completion is April 2026.
C. Contract time is 300 calendar days. Liquidated damages are $250/day.
D. While the majority of the project construction is within GDOT right-of-way, some work is within City easements on private property. Contractor coordination with the landowners is required where those easements are located on private property
E. Bid opening is May 8, 2025, and the bids will be presented to City Council for award on May 24, 2025. City staff will work to get contract documents executed as quickly as possible following Council award, with the intention of issuing Notice To Proceed in late June or early July.
F. It is anticipated that the Gorman-Rupp lift station equipment delivery schedule is maximum of 34 weeks from Purchase Order. This includes the submittal reviews and production.
G. Questions and Requests for Information should be submitted by email to chclark@valdostacity.com , and the deadline for questions is close-of-business (5pm) on Thursday May 1, 2025. Responses will be issued as soon as possible, and no later than 10am on Monday, May 5, 2025.

These notes are taken from the memory and hand notations of the author. If any significant errors or oversights are notes, please notify the author within 5 days of receipt.

Charlie Clark P.E., Eng. Services Manager

City Hall Annex • Post Office Box 1125 • 300 N. Lee Street • Valdosta, GA 31603-1125
Telephone (229) 259-3530 • Fax (229) 333-1884

PRE-BID MEETING ATTENDANCE ROSTER

Project: INNER PERIMETER ROAD UTILITIES EXTENSIONS

Date: 4/22/2025

Time: 10:00 a.m.

Location: City of Valdosta Engineering Department

Name	Company & E-mail Address	Telephone Number
CHARLIE CLARK	VALDOSTA ENG DEPT chclark@valdostacity.com	229-259-3530
Louis Rumph	standard cont. inc. scilrumph@gmail.com	229-251-2404
Brandon Dean	standard contractors inc. scibdean@gmail.com	229-375-8589
Cody Williams	SEC Sitework cody@secsitework.com	912-245-4275
Eric Aldridge	SEC Sitework eric@secsitework.com	912 256 7772
JEFF LEWIS	POPCO, INC. JLEWIS@POPCOINC.COM	229-436-1411
WAYNE AGAMIE	NATIONAL TRENCH SAFETY WAYNEAGAMIE@NTSAFETY.COM	407 902 3820
Jeff McCarthy	James Warren + Associates jeff@jwautilities.com	(229)247-1557
Howard Brooks	JWA howard@jwautilities.com	229-247-1557
Josh Jordan	United Rentals JJordan@UR.com	909-900-2712
Scotty Brogdon	Templeton + Associates Scotty@Templeton-associates.com	229-563-4608

PRE-BID MEETING ATTENDANCE ROSTER

PAGE 1/2

Project: INNER PERIMETER ROAD UTILITIES EXTENSIONS
Date: 4/22/2025
Time: 10:00 a.m.
Location: City of Valdosta Engineering Department

Name	Company & E-mail Address	Telephone Number
Justin Fountain	RPI Underground jfountain@radney.com	229-244-1967
BILL KENT	INNOVATE ENGINEERING bkent@innovatees.com	229-249-9113
BEN D'DOWD	CITY ENGINEER	

VALDOSTA
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ENGINEERING DEPARTMENT

Responses To Questions And Requests-For-Information
Issued 04/23/2025
Project: INNER PERIMETER ROAD UTILITIES EXTENSIONS
Project No. 25-05-702
Bid Opening Date & Time: May 8, 2025 – 10:00am
Owner: City of Valdosta, Georgia

The City has received questions AND Requests-for-Information, and the City responses are listed below:

1. What sized casing is required for the 8" main under GA DOT roads: 16" is shown on plans, 18" is shown on construction details? USE 16" DIAMETER CASING AS SHOWN ON CONSTRUCTION PLAN SHEETS.
2. Does city have permits for jack and bore? YES, GDOT PERMITS HAVE BEEN APPROVED VIA GPAS PERMITTING SYSTEM.
3. Clarification: are all fittings on HDPE to be DI, not HDPE fittings? CONFIRMED, YES, ALL FITTINGS ARE DIUCTILE IRON
4. Generator at lift station: what KW size and what size belly tank? GENERATOR MUST BE UL LISTED. GENERATOR MUST HAVE A 48kW RUNNING RATING. GENERATOR MUST HAVE AN INTEGRAL BELLY TANK WITH A 48HR RUN TIME OR 100 GALLONS (WHICHEVER IS GREATER) MINIMUM SIZE.
5. Clarification on bid item 611-a convert MH to discharge MH. LINE ITEM IS DELETED; THERE ARE NO MANHOLE CONVERSIONS; SANITARY MANHOLE #SS-20 IS A NEW DISCHARGE MANHOLE RECEIVING TWO FORCE MAINS (4" FM IN THIS PROJECT, AND 8" FM BY OTHERS)
6. Bid item 500-b, remove and replace 18" RCP, is not called out on plans. Is this driveway at Ace Electric? New pipe required? YES; THIS WAS NOT CALLED OUT SPECIFICALLY ON THE PLANS, BUT ON SHEET 1, WHERE THE NEW GRAVITY SEWER CROSSES THE EXISTING ACE DRIVEWAY, IT IS IN DIRECT CONFLICT WITH THE EXISTING STORM PIPE. REMOVE AND REPLACE THAT STORM PIPE IN ORDER TO PUT IN THE GRAVITY SEWER. Does new pipe have to be DOT stamped? GUY RENTZ OF THE GDOT AREA OFFICE STATES: "Pipes have to meet the GDOT standard (1030D2) added standard (1030D) . No DOT inspection stamp required. (attached standard)"
7. RCP & SES at pump station: does it have to be DOT stamped? GUY RENTZ OF THE GDOT AREA OFFICE STATES: "Safety Ends must meet GDOT Standard (1122-3). No DOT inspection stamp required. (attached standard)"

8. Bid items for all directional bore's: is pipe to be included with price or is this labor only? YES, DIRECTIONAL BORE LINE ITEMS INCLUDE PIPE, FITTINGS, LABOR, OTHER MATERIALS, AND EQUIPMENT NECESSARY FOR COMPLETE INSTALLATION..
9. Note on plans on 10" WM to directional bore all driveways. Is this footage included in Bid Item 6700 directional bore, 10" bore? YES, THE TOTAL FOOTAGE SHOWN INCLUDES BORING THE DRIVEWAYS.
10. HDPE in wet well calls for DR17; clarification please. All other hdpe on job is DR11. ADENDUM #1 REVISION - ALL PIPE MATERIALS IN THE WETWELL TO BE COV STANDARD DUCTILE IRON IN LIEU OF DR17 HDPE.
11. Bid Item 670-H WATER SERVICE 1" PEXa: can 1" poly be used? City stopped using 1" PEXa. YES. 1" POLY CAN BE USED.
12. Bid Item 670-I WATER METER 3/4": will city furnish or contractor have to purchase from COV? CONTRACTOR TO PURCHASE METER FROM COV. COMPLETE COST OF THE PROJECT SHOULD BE REPRESENTED WITHIN THE PROJECT BUDGET. SAME FOR WATER PURCHASED BY THE CONTRACTOR BY WAY OF HYDRANT METER TO FACILITATE WORK.
13. Bid Item 99E PAVEMENT REMOVAL AND REPLACEMENT 75SY; not shown on plans; clarification please. CONTINGENCY ITEM TO BE USED IF NEEDED AT DIRECTION OF OWNER; ITEM DESCRIPTION HAS BEEN REVISED ACCORDINGLY.
14. Clarification: Bid Item 668-D LIFT STATION COMPLETE calls for piping. Does this include 4" DIP FM and water service inside fence? You have Bid Line Items 660-A 4" DIP, 670-E BFP, 670-E TAPPING VALVE, 670-H WATER SERVICE LINE, 670-I WATER METER, 670-Z POST HYD. ITEM 668-D LIFT STATION COMPLETE DOES INCLUDE ALL PIPING, FITTINGS, BOLLARDS, ETC FOR ALL ITEMS INSIDE THE LIFT STATION SITE. SEVERAL OF THE LINE ITEMS LISTED HAVE BEEN SHIFTED TO ALTERNATE BID ITEMS (NOT INCLUDED IN BASE BID) TO ALLOW FLEXIBILITY OF MODIFYING THE LIFT STATION SITE LAYOUT ARRANGEMENT IF NEEDED.

Submitted,

Charlie Clark, P.E.
Engineering Services Manager

TABLE NO. I ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM

MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE												PIPE DIAMETER (INCHES)
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		12
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		15
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.105	
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		18
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105	
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		24
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM 1	12	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105		
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		30
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.075	.075	.075	.075	.105	.105	.105	.135	.135			
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		36
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.105	.105	.105	.105	.105	.135	.135	.135	.135			
	ALUM 2	12	.060	.060	.060	.060	.075	.075	.105	.105	.105	.135			
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		42
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	
	ALUM 1	12	.105	.105	.135	.135	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.105	.135	.135			
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		48
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	ALUM 1	12	.105	.105	.135	.164	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.135	.135	.164	.164		
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		54
	STEEL 1	12	.079	.079	.079	.079	.079	.079	.079	.109	.138	.138	.168		
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	ALUM 1	15	.105	.105	.135	.164	.164	.164							
	ALUM 2	15	.060	.060	.060	.075	.075	.105	.135	.135	.164	.164			
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		60
	STEEL 1	12	.109	.109	.109	.109	.109	.109	.109	.109	.138	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.079	.109	.138	.138	.168	.168	
	ALUM 1	15	.135	.135	.164	.164	.164	.164							
	ALUM 2	15	.060	.060	.075	.105	.105	.135	.135	.164	.164				
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			66
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168		
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.135	.164	.164					
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			72
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168				
	STEEL 2	12	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168			
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.164	.164	.164					
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V				78
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168			
	ALUM 2	21	.075	.075	.105	.105	.135	.164	.164						
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V				84
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.079	.079	.109	.109	.138	.168				
	ALUM 2	21	.105	.105	.105	.135	.135	.164	.164						
90	CONCRETE	12	III	III											90
	STEEL 2	18	.064	.064	.064	.079	.109	.109	.138	.138	.168				
	ALUM 2	24	.105	.105	.135	.135	.164								
96	CONCRETE	12	III	III											96
	STEEL 2	18	.079	.079	.079	.079	.109	.109	.138	.168					
	ALUM 2	24	.105	.105	.135	.135	.164								
102	CONCRETE	12	III	III											102
	STEEL 2	24	.079	.079	.079	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164	.164										
108	CONCRETE	12	III	III											108
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164											
114	CONCRETE														114
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.168						
	ALUM 2	24	.164	.164											
120	CONCRETE														120
	STEEL 2	24	.109	.109	.109	.109	.138	.138	.168						
	ALUM 2	24	.164	.164											

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDTIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

TABLE NO.3-(INFORMATION ONLY)

	COR. METAL THICKNESS	EQUIVALENT GAGE
STEEL	.064	16
	0.079	14
	0.109	12
	0.138	10
	0.168	8
ALUMINUM	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO. 1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)

B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

BY	REVISION	DATE
	GEN. REV. NOTES	9-26-01
GJP	ADDED SEAM CONST. NOTE	3-9-99

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

STANDARD

CONCRETE & METAL PIPE CULVERTS

SHEET 2 OF 3

(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)

NO SCALE

OCTOBER 21, 1998

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) CHIEF ENGINEER

NUMBER 1030D

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

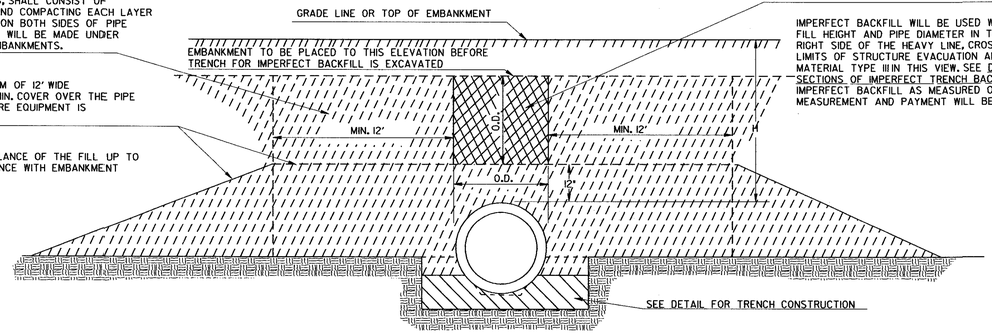
NORMAL BACKFILL

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

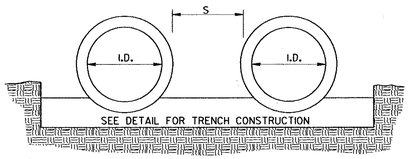
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. I FALLS ON THE RIGHT SIDE OF THE HEAVY LINE. CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EVACUATION AND IMPERFECT BACKFILL MATERIAL TYPE IIIIN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

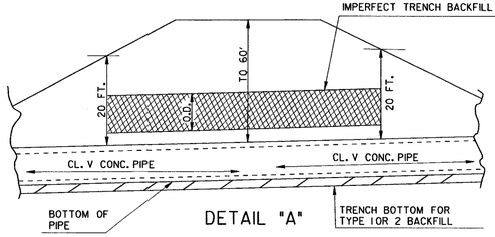


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

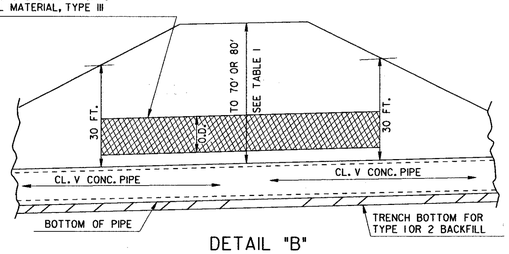
CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III



DETAIL "A"

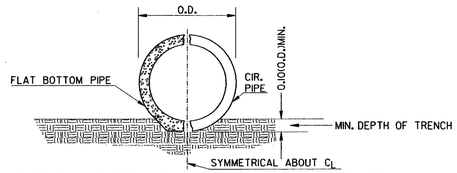
(FOR CONCRETE PIPE DIAMETERS 78" & 84", WITH FILL HEIGHTS OVER 20 FT.)



DETAIL "B"

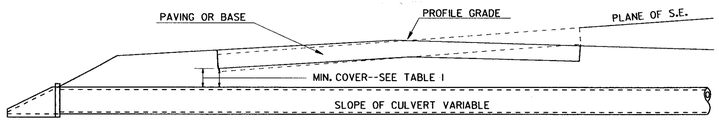
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

TRENCH CONSTRUCTION FOR SIDE DRAIN

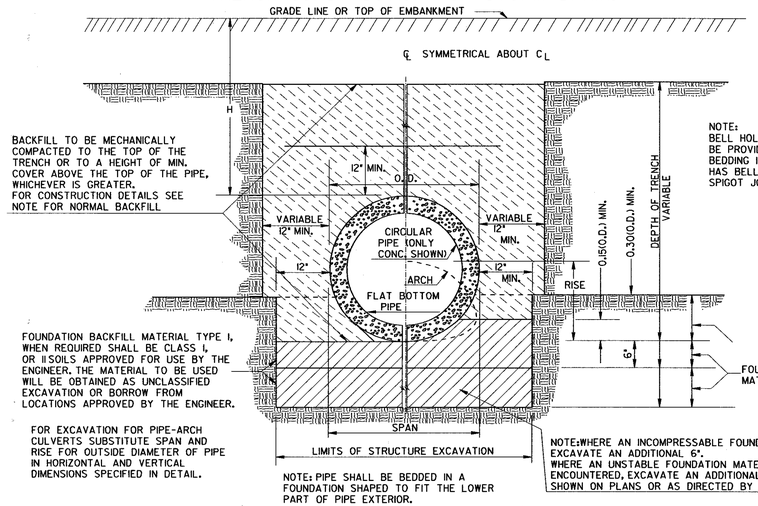


NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSABLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



TRENCH CONSTRUCTION FOR STORM DRAIN.



NOTE:
BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE:
TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 1 OF 3
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE — REV. & REDR.: SEPT., 2001

DATE | REVISION | BY

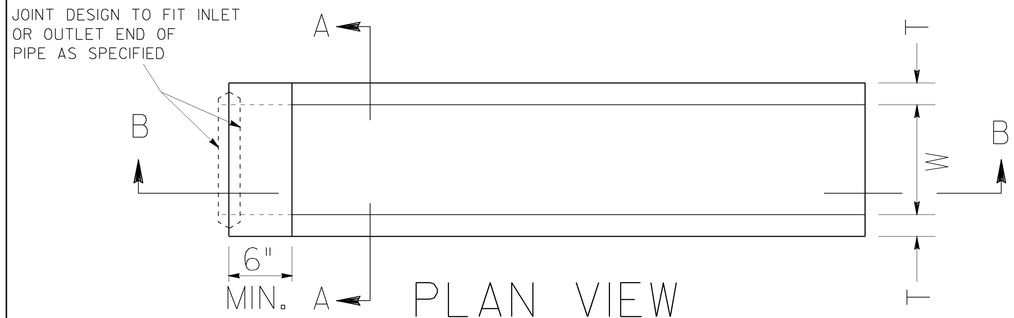
DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) James A. Kennel
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Genl L Faddis
CHIEF ENGINEER

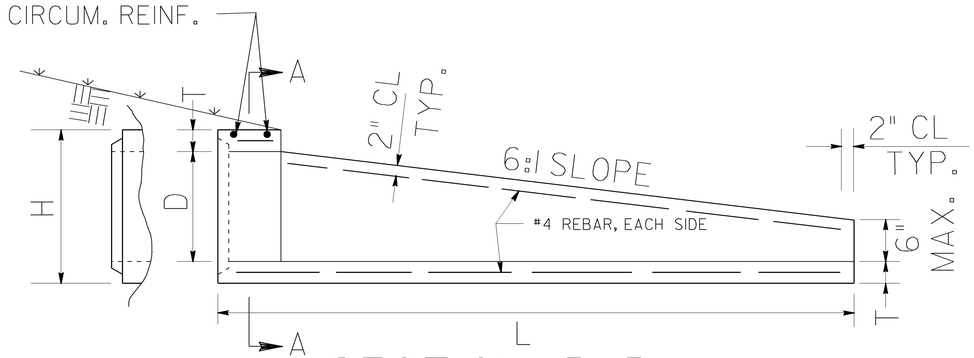
NUMBER 1030D

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

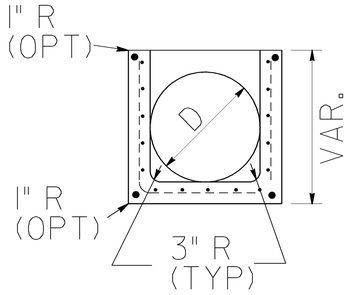
(BAR GRATE NOT SHOWN)



SECTION B-B

ALTERNATE 3

PIPE DIA	T (MIN)	D	H	L
15"	3"	15"	21"	4'-6"
18"	3"	18"	24"	6'-0"
24"	3"	24"	30"	9'-0"
30"	4"	30"	38"	12'-6"
36"	4"	36"	44"	15'-6"
42"	4"	42"	50"	18'-6"
48"	5"	48"	58"	22'-0"



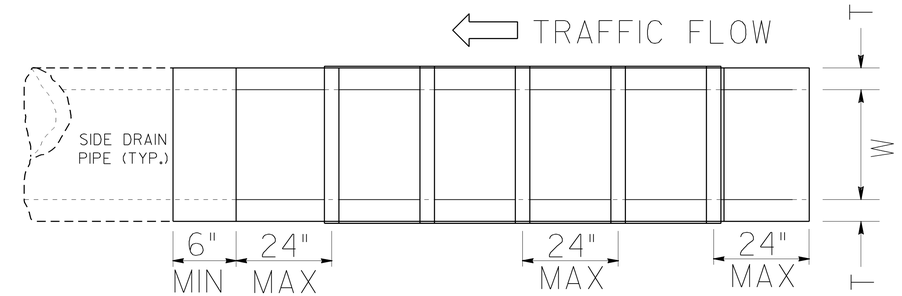
SECTION A-A

GENERAL NOTES:

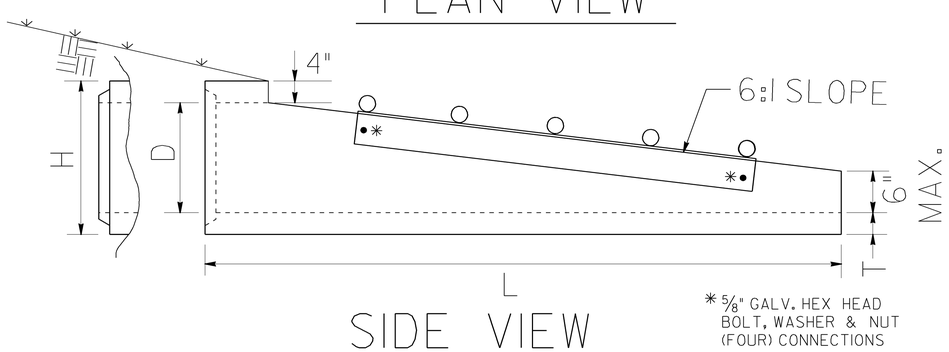
1. CONCRETE STRENGTH SHALL BE 4000 PSI MINIMUM
2. REINFORCING SHALL BE PER AASHTO M170, CLASS II REINFORCED CONCRETE PIPE, PLUS ONE #4 BAR TOP AND BOTTOM, EACH SIDE.
3. WALLS MAY HAVE 1/4" TAPER. WALL THICKNESSES SHOWN ARE THE MINIMUM.
4. LIFT HOLES MAY BE PROVIDED IN THE SIDE WALLS FOR HANDLING.
5. END SECTION JOINT WILL BE A MATCHED FIT TO THE ADJOINING PIPE JOINT AT ALL INLET AND OUTLET ENDS. NON-FITTING JOINTS WILL REQUIRE A BUILT-IN-PLACE REINFORCED COLLAR CONNECTION WITH NO ADDITIONAL PAYMENT.
6. ALL END SECTIONS FOR PIPES WITH "D" OVER 24" ON SINGLE LINES WILL HAVE GALV. SAFETY BARS, SPACED NOT MORE THAN 24" ON CENTERS, AND INSTALLED PERPENDICULAR TO THE MAINLINE TRAFFIC FLOW. ALL END SECTIONS FOR MULTIPLE LINE PIPES WILL HAVE GRATES.
7. TYPICAL USE OF SAFETY END SECTIONS IS AT THE ENDS OF PIPES UNDER DRIVEWAYS OR SIDEROADS WHERE THE PIPE CULVERT IS PARALLEL TO THE MAINLINE AND FALLS INSIDE THE MAINLINE CLEAR ZONE WIDTH.

D	(MIN) GRATE LENGTH	GRATE WIDTH (TYP) #
15"	2'-4"	1'-9 5/8"
18"	2'-4"	2'-0 5/8"
24"	6'-4"	2'-6 5/8"
30"	8'-6"	3'-2 5/8"
36"	12'-4"	3'-8 5/8"
42"	14'-6"	4'-2 5/8"
48"	18'-4"	4'-10 5/8"

TYPICAL GRATE WIDTHS SHOWN ARE MEASURED FROM INSIDE TO INSIDE OF THE 3/8" THICK ANGLE IRON. GRATE FIT WITH END SECTION SHALL BE CHECKED BEFORE DELIVERY.

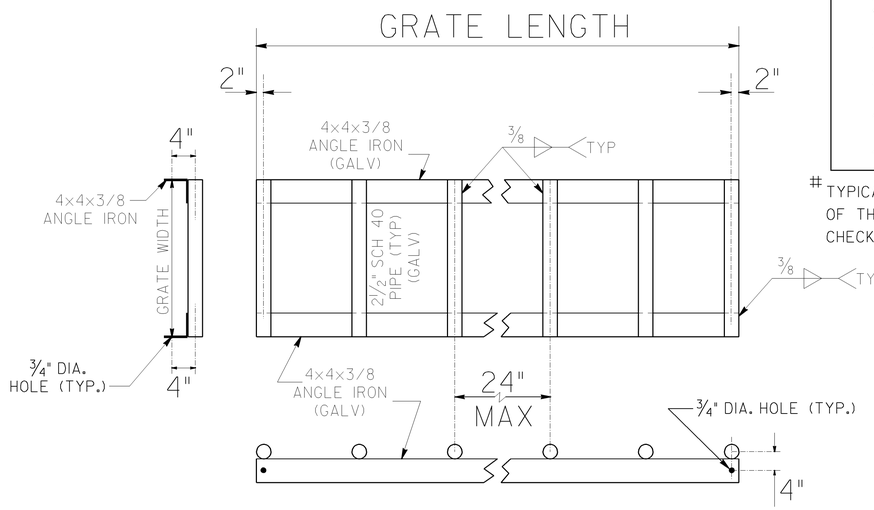


PLAN VIEW



SIDE VIEW

* 5/8" GALV. HEX HEAD BOLT, WASHER & NUT (FOUR) CONNECTIONS



GALVANIZED SAFETY GRATE DETAIL

DATE	REVISION	BY
1-28-05	REVISED TO 1122 PAGE 3	G.L.Q.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(CONCRETE)
(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE 3

NO SCALE — OCT., 2000

DESIGNED
DRAWN
TRACED
CHECKED

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 1122
SHEET 3 OF 3

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.

INNER PERIMETER ROAD UTILITIES EXTENSION

CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

Issued 04/08/2025

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

Revised 04/24/2025

Addendum	Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
	000-A	DEMOLITION - complete including pavement saw cut, clearing, grubbing, relocate light pole, associated debris removal and offsite disposal	LS	1	$	$
	150-A	MOBILIZATION / DEMOBILIZATION	LS	1	$	$
Add. #1	150-B	TRAFFIC CONTROL - complete including barricades, signs, fencing, *flagmen;* for vehicles and pedestrians	LS	1	$	$
	163-A	EROSION CONTROL - Dust Control - Du - includes installation and maintenance	AC	2.8	$	$
	163-B	EROSION CONTROL - Mulch Stabilization (DS1) temporary mulching, including installation and maintenance	AC	2.8	$	$
	163-C	EROSION CONTROL - Temporary Grassing (DS2) temporary grassing, including installation and maintenance	AC	2.8	$	$
	163-D	EROSION CONTROL - Permanent Grassing (Ds3) including installation, maintenance for duration of contract	AC	2.8	$	$
	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	$	$
	402-A	REMOVE/REPLACE ASPHALT DRIVEWAY	SY	12	$	$
	441-A	REMOVE/REPLACE CONCRETE DRIVEWAY-6IN	SY	39	$	$
	441-B	CONCRETE SLAB ON GRADE - 3000 psi (not shown on plans, to be used only if directed by Owner)	CY	10	$	$

INNER PERIMETER ROAD UTILITIES EXTENSION

CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

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Revised 04/24/2025

Addendum	Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
	441-C	CONCRETE ENCASEMENT FOR UTILITY MAINS (not shown on plans - used only at the direction of the Owner)	CY	75	$	$
	441-D	FLOWABLE FILL - Fill Voids (not shown on plans - used only at the direction of the Owner)	CY	10	$	$
	500-A	REMOVE/REPLACE 18 IN CURB & GUTTER	LF	20	$	$
	500-B	REMOVE/REPLACE 18 IN RCP W/ FES (flared end sections are included in costs)	LF	57	$	$
	500-C	REMOVE/REPLACE FENCE (replace fencing with equivalent materials and at same height as existing)	LF	185	$	$
Add. #1	611-A	*delete item*				
	660-A	SAN SEWER PIPE, 4 IN DIP	LF	79	$	$
	660-B	SAN SEWER PIPE, 4 IN DR11 HDPE	LF	1426	$	$
	660-D	SAN SEWER, 45 DEG DI BEND, 4 IN	EA	2	$	$
	660-E	SAN SEWER, DIRECTIONAL BORE, 4 IN	LF	136	$	$
	660-F	CONCRETE ENCASE SEWER, 8 IN	LF	10	$	$
	660-G	SAN SEWER PIPE, 8 IN PVC	LF	1936	$	$
	660-H	SAN SEWER, TIE PVC TO EXISTING MANHOLE, 12 IN	EA	1	$	$
	660-I	SAN SEWER PIPE, 12 IN PVC	LF	1064	$	$
	668-A	SAN SEWER MANHOLE, TP1	EA	9	$	$
	668-B	SAN SEWER MANHOLE, TP 1, ADDL DEPTH, CL1	LF	15	$	$
	668-C	SAN SEWER MANHOLE, TP1, ADDL DEPTH, CL2	LF	14	$	$

INNER PERIMETER ROAD UTILITIES EXTENSION

CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

Issued 04/08/2025

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Revised 04/24/2025

Addendum	Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
Add. #1	668-D	LIFT STATION SITE - *Complete Construction for Lift Station Site; includes all piping (DIP - see Add.#1) and fittings, concrete wet well, pumps, fencing, drive, gravel, header curb, light pole, bollards, electrical panel and wiring, generator, and other*	LS	1	$	$
	670-A	WATER MAIN HYD. LEAD, 6 IN DI	LF	124	$	$
	670-B	WATER MAIN, 8 IN. PVC	LF	1502	$	$
	670-C	WATER MAIN, 10 IN. SDR 11 HDPE	LF	1,504	$	$
	670-D	WATER MAIN, DIRECTIONAL BORE, 10 IN.	LF	631	$	$
	670-E	WATER MAIN, 12 IN. PVC	LF	4,283	$	$
	670-J	GATE VALVE, 8 IN.	EA	3	$	$
	670-K	GATE VALVE W/ BLIND FLANGE, 8 IN.	EA	1	$	$
	670-L	GATE VALVE, 10 IN.	EA	1	$	$
	670-M	GATE VALVE, 12 IN.	EA	5	$	$
	670-N	GATE VALVE W/ BLIND FLANGE, 12 IN.	EA	2	$	$
	670-O	45 DEG BEND, 8 IN. DI	EA	1	$	$
	670-P	45 DEG BEND, 10 IN. DI	EA	14	$	$
	670-Q	45 DEG BEND, 12 IN. DI	EA	5	$	$
	670-R	REDUCER, 10 IN. X 8 IN.	EA	2	$	$
	670-S	REDUCER, 12 IN. X 8 IN.	EA	3	$	$
	670-T	TEE, 12 IN. DI	EA	3	$	$
	670-U	TEE W/ BLIND FLANGE, 12 IN. DI	EA	1	$	$

Addendum	Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
	670-V	HYDRANT TEE, 8 IN. X 6 IN.	EA	3	$	$
	670-W	HYDRANT TEE, 10 IN. X 6 IN.	EA	3	$	$
	670-X	HYDRANT TEE, 12 IN. X 6 IN.	EA	8	$	$
	670-Y	FIRE HYDRANT & GATE VALVE ASSEMBLY, 6 IN.	EA	14	$	$
	670-Z	POST HYDRANT, FROST PROOF, 3/4 IN.	EA	1	$	$
	670-AA	JACK & BORE STEEL CASING, 16 IN.	LF	64	$	$
	670-BB	JACK & BORE STEEL CASING, 24 IN.	LF	291	$	$
	702-A	SOD (not shown on plans - used only at the direction of the Owner)	SY	50	$	$
	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	40	$	$
	999-D	BEDDING SAND - (contingency - used only at the direction of the Owner)	TON	10	$	$
Add.#1	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 *(contingency - used only at the direction of the Owner)*	SY	75	$	$
				TOTAL =		

INNER PERIMETER ROAD UTILITIES EXTENSION

CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

Issued 04/08/2025

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

Revised 04/24/2025

Addendum	Item #	Item Description	Unit	Quantity	Unit Cost	Total Cost
Add.#1	**ALTERNATE BID ITEMS - TO BE USED AT OWNER'S DIRECTIONS; ALTERNATE ITEM COSTS ARE NOT INCLUDED IN THE TOTAL BID AMOUNT**					
Add.#1	alt-660-C	SAN SEWER, 90 DEG DI BEND, 4 IN	EA	2	$	
Add.#1	alt-670-F	BACKFLOW PREVENTION ASSEMBLY, RPX W/ FROST PROT COVER, 3/4 IN.	EA	1	$	
Add.#1	alt-670-G	TAPPING VALVE, 1 IN.	EA	1	$	
Add.#1	alt-670-H	WATER SERVICE LINE, 1 IN. PEXa	LF	5	$	
Add.#1	alt-670-I	WATER METER, 3/4 IN.	EA	1	$	

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
1	**04/24/2025**

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