



IFB NO. 15301-FY19-07  
SYCOLIN ROAD WIDENING PHASE IV

ADDENDUM #1

AUGUST 24, 2018

- 1. All bidders are required to use the bid form dated August 24, 2018 in order for their bid to be considered responsive (Attachment A). The bid form will also be available on the Town's Bid Board in MS Word format, however any changes to the bid items' description, unit or quantity shall render the bid non responsive.**
- 2. Revised plan sheets 1 of 20, 1B of 20, 1B(1) of 20, 1C of 20, 1S(1) of 20, 1T(2A) of 20, 1T(3) of 20, 1T(3A) of 20, 1T(3B) of 20, 1U(3) of 20, 1V(3) of 20, 1W(3) of 20, 2J of 20 and 14(2) of 20 are attached as Attachment B. These drawings are to be used for preparation of the bid.**

**3. Questions and Answers:**

Question 1: Please provide the full geotechnical investigation report for the project, including all boring logs.

**Answer 1: Two geotechnical engineering reports, dated May 25, 2016 and June 10, 2016 by DMY Engineering Consultants Inc., are attached as Attachment C1 (Geotechnical Report) and Attachment C2 (Geotechnical Report Retainage Wall Addendum).**

Question 2: Are the summary sheets available for: earthwork, erosion control, incidentals, traffic control, roadside development, drainage, and pavement items? If so please provide.

**Answer 2: No.**

Question 3: There is no mention of a pre-bid meeting in the IFB. Please confirm the Town does not intend to have one.

**Answer 3: There is no pre-bid meeting or site visit intended for this project.**

Question 4: On sheet 2J, the ditch segments (right) 126+11 to 126+70, 126+70 to 128+41, and 128+41 to 129+12 are listed under both ditch A and ditch C. Segment 126+70 to 128+41 has different lining required between the two tables. Please confirm these segments are ditch C as this matches label on sheet 8 and that they should be deleted

from the ditch A table.

**Answer 4:** See revised sheet 2J – the 3 ditch segments have been deleted from the Ditch “A” table.

Question 5: Bid item # 7 Retaining wall is to be per plan details and specification. Typical detail for wall on sheet 2A(5) states the contractor is to provide final design. VDOT spec section 506 only describes dry and mortar rubble walls, reinforced concrete walls, and concrete crib walls. Can the contractor choose to utilize other wall types such as MSE or “Keystone” type block walls? Is the pay quantity the exposed face area or the total area to the bottom of the wall?

**Answer 5:** The retaining wall is VDOT RW-2. Pay quantity will be per total area to the bottom of the wall.

Question 6: Bid item # 18 Safety fence – where is this required? We have been un-able to locate any on the plans other than a note requiring it around sediment traps.

**Answer 6:** This is a unit price contract and contractor will be paid based on actual quantities installed per contract documents and specifications.

Question 7: Bid item # 87 Asphalt build up – where is this required? It is not shown in the MOT typical sections or on the TMP plans for phase 3. What is the depths required? Can this item be changed to payment by the ton instead of SF as it is very difficult to determine accurate quantities of materials used without very detail grading plans showing the build up required.

**Answer 7:** See revised Bid Form dated August 24, 2018 (Attachment A).

Question 8: Bid item # 189 STR 9.14 – this structure is listed twice, in bid item 188 and 189. Should this bid item be for STR 9.15 as it is listed in the drainage tabulations but not listed in the bid items?

**Answer 8:** See revised Bid Form dated August 24, 2018 (Attachment A).

Question 9: Please provide the geotech report for this project so bidders can include cost for rock excavation.

**Answer 9:** See answer to Question #1.

Question 10: What forms are required to be submitted at bid time? Do the bidders have to submit the DBE info with the bid or 24HR after the bid results?

**Answer 10:** The following forms and bidding procedures shall apply to the contract for DBE Program compliance purposes:

**Contract Goal, Good Faith Efforts Specified:** All bidders evidencing the attainment of DBE goal commitment equal to or greater than the required DBE goal established for the project must submit completed Form C-111, Minimum DBE Requirements, and Form C-48, Subcontractor/Supplier Solicitation and Utilization, as a part of the bid documents.

Form C-111 may be submitted electronically or may be faxed to the Town, but in

**no case shall the bidder's Form C-111 be received later than 10:00 a.m. the next business day after the time stated in the bid proposal for the receipt of bids. Form C-48 must be received within ten (10) business days after the bid opening.**

**If, at the time of submitting its bid, the bidder knowingly cannot meet or exceed the required DBE contract goal, it shall submit Form C-111 exhibiting the DBE participation it commits to attain as a part of its bid documents. The bidder shall then submit Form C-49, DBE Good Faith Efforts Documentation, within two (2) business days after the bid opening.**

**The lowest responsive and responsible bidder must submit its properly executed Form C-112, Certification of Binding Agreement, within three (3) business days after the bids are received. DBEs bidding as prime contractors are not required to submit Form C-112 unless they are utilizing other DBEs as subcontractors.**

If, after review of the apparent lowest bid, the Town determines the DBE requirements have not been met, the apparent lowest successful bidder must submit Form C-49, DBE Good Faith Efforts Documentation, which must be received by the Contract Engineer within two (2) business days after official notification of such failure to meet the aforementioned DBE requirements.

Forms C-48, C-49, C-111, and C-112 can be obtained from the VDOT website at:  
<http://vdotforms.vdot.virginia.gov/>

Instructions for submitting Form C-111 can be obtained from the VDOT website at:  
[http://www.virginiadot.org/business/resources/const/Exp\\_DBE\\_Commitments.pdf](http://www.virginiadot.org/business/resources/const/Exp_DBE_Commitments.pdf)

Question 11: Page 68 - CBR Testing & Pavement Design - How does the Town expect to compensate the contractor for final pavement design for this project? This is not normally the responsibility of the contractor - plans currently show a pavement design. Please clarify.

**Answer 11: Pavement design shall be considered incidental to all other items of work.**

Question 12: Page 70 - Asphalt Surface Rideability - The majority of the existing pavement will be salvaged and milled/overlayed which presents an issue with the IRI testing. Will the Town test the existing pavement prior to mill/overlay and how much improvement of the existing ride will be expected with variable depth overlay?

**Answer 12: The Town will not apply the IRI testing to existing pavement to be milled and overlayed.**

- Question 13: Can bidders obtain plans of the ongoing utility relocations? In particular the proximity of the overhead utilities in the vicinity of the proposed retaining wall, the box culvert extensions the buried SWM facility and proposed signal improvements?
- Answer 13: **NOVEC utility relocation plans are attached for information only as Attachment D. The new NOVEC poles have been installed.**
- Question 14: Pay Item 4 indicates that the Plans provide details and specifications for an Airport Sign. No details of specifications have been found.
- Answer 14: **The airport sign details are attached as Attachment E.**
- Question 15: Pay Item 5 indicates that the Plans provide details and specifications for a Secondary Gateway Sign. No details of specifications have been found.
- Answer 15: **The secondary gateway sign details are attached as Attachment E.**
- Question 16: Pay Item 7 indicates there are specifications for the proposed retaining wall. The wall is generally shown on Plan Sheets 2A(5), 6, 7, 6B as well as the Cross Sections. No Specifications for this wall have been found. If the Contractor has discretion to construct various types of walls, please provide any particular requirements for the wall and geotechnical bearing capacity that can be anticipated at the wall location.
- Answer 16: **See answer to question number 5.**
- Question 17: Pay Item 8 indicates there are specifications for the proposed 4' Board Fence. No specifications have been found.
- Answer 17: **Contractor will replace 4' Board Fence in kind.**
- Question 18: Pay Item 46 indicates field adjust sign as shown on the plans. The plans do not depict this work.
- Answer 18: **Sign to be field adjusted is at the entrance to Property 007 on sheet 7.**
- Question 19: Pay Item 62 lists a Hand hole dimension that is different than the plans 2'x3'x4', plans show 2'x3'x2'.
- Answer 19: **Hand hole dimensions is 2'x3'x2', see revised Bid Form dated August 24, 2018 (Attachment A).**
- Question 20: Pay Item 65 discusses NOVEC specifications for Streetlight Splice Boxes. Can details and specifications for this scope of work be provided?
- Answer 20: **NOVEC will supply Splice boxes/Hand holes, at NOVEC Gainesville Facility, and contractor will install.**
- Question 21: Pay Item 148 Should list a 23" x 14" ES-1A, not an 18-Inch ES-1.
- Answer 21: **See revised Bid Form dated August 24, 2018 (Attachment A).**

- Question 22: Pay Item 179 should have a quantity of 1 EA, not 2 EA  
**Answer 22:** See revised Bid Form dated August 24, 2018 (Attachment A).
- Question 23: Pay Item 189 should list STR. 9-15 with (H=5.0')  
**Answer 23:** See revised Bid Form dated August 24, 2018 (Attachment A).
- Question 24: A Pay Item for underdrain Outlet Pipe is missing.  
**Answer 24:** Outlet underdrain pipe quantity is included in the UD-2 bid item, and also payment will be under the UD-2 item.
- Question 25: The plans and bid item #228 read 8" inserting valve, please provide specification for this item.  
**Answer 25:** IFT insert valve see (Attachment F), or approved equal.  
<https://www.insertvalve.com/insert-valve-installation-services.php>
- Question 26: In the RFP No. 15301-FY19-04 for Construction Engineering and Inspection Services for Sycolin Road Widening Phase IV, we see that materials testing for the construction is to be done by the contractor (per addendum 1 and 3) . We further see in the instructions to bidders (for IFB 15301-FY19-07) that CBR testing and final pavement design. Which specific section of the IFB or contract details the requirements for the contractor to perform materials testing?  
**Answer 26:** Per Construction Contract General Condition section 4.14.11. This is to be performed by or on behalf of the Contractor and shall be considered incidental to all other items of work.
- Question 27: Per ITB instructions to bidders, page 67; all storm drain and sanitary pipe in paved areas shall be fully backfilled with 21-A material above the standard bedding material. Does this only apply to areas of existing pavement or does it also include the proposed pavement? Does this apply if the pipe is below a curb and gutter?  
**Answer 27:** All utilities (storm, sanitary and water) installed in existing paved areas shall be backfilled with 21-A including below curb and gutter.
- Question 28: 18" RCP storm drain from str. 25 to str. 22 is called out to be gasketed pipe per ASHTO 443. The 54" pipe between str. 22 and str. 23 will be holding water but is not called out to be gasketed pipe. Please confirm std. leak resistant joints are to be provided.  
**Answer 28:** Providing leak-resistant joints in accordance with VDOT Road & Bridge Specifications Section 302 is sufficient for the 54" pipes between Str. 8-22 and Str. 8-23.
- Question 29: Bid item 148 – Str. 7.8 description is an 18" ES-1, however plans show it as a 23"x14" ES-1A. Please correct.  
**Answer 29:** See revised Bid Form dated August 24, 2018 (Attachment A).

Question 30: Ref. note 13 on plan sheet 2(1) – please confirm all utilities are to be open cut while working within TMP phased work zones and not bored and jacked.

**Answer 30: Open cutting shall only be permitted with prior written approval by the Director of Public Works & Capital Projects.**

Question 31: Ref. notes 19, 21, 22 on plan sheet 2(1) – are there costs associated with the Town of Leesburg or Loudoun County permits the contractor shall bear or will any fees be waived? Also is there a Corp of Engineers/DEQ permit required for this project?

**Answer 31: Fees associated with permits required by the Town and Loudoun County for the project will be waived. The Town has obtained the required Corps of Engineers permit (NAO-2015-1148, expires March 18, 2022) and will obtain the DEQ permit.**

Question 32: On the cross section sheets, some pages have two hatch pattern keys shown: one for unsuitable material to be removed and the second for replacement with select material min CBR 30 (e.g. x57-x62). Other pages only have the first key for unsuitable removal. As bid item 349 is for both removal and replacement with CBR 30 material and there is no other unsuitable removal bid item: is the omission of the second hatch key pattern from the rest of the sheets an oversight, or should there be a bid item with replacement with some other type of material?

**Answer 32: Unsuitable material depicted on the plans to be removed, disposed and replaced with select material type I minimum CBR 30.**

Question 33: Can you please provide dimensions for the “Secondary Gateway Sign” (bid tab #5)? There are no details shown for this on the signage plan or the signage schedule or details.

**Answer 33: See answer to question number 15.**

Question 34: Can you please clarify the following regarding bid items #169 & 170?

On structure 8-22, the plans (2K(8) of 20) show 5.7 feet interior height by 4.5 feet interior width. On structure 8-22, the bid items list show 8.0 feet interior height by 4.5 feet interior width.

On structure 8-23, the plans (2K(8) of 20) show 5.5 feet interior height by nothing shown for interior width. On structure 8-23, the bid item list show 10.3 feet interior height by 4.0 feet interior width.

Can you confirm which are the correct dimensions to bid?

**Answer 34: Both dimensions are correct, the contractor will use measurements shown on the plans.**

**END OF ADDENDUM #1**

**TOWN OF LEESBURG, VIRGINIA  
OFFICE OF CAPITAL PROJECTS  
25 WEST MARKET STREET  
LEESBURG, VIRGINIA 20176  
IFB NO. 15301-FY19-07**

**BID FORM, PAGE 8 THRU 28  
SUBMIT A SIGNED BID FORM BY MAIL OR IN PERSON TO  
OFFICE OF CAPITAL PROJECTS**

FORMAL BIDS WILL BE DUE NO LATER THAN **3:30 p.m., Thursday, September 6, 2018**

**CONSTRUCTION OF THE PLANS TITLED  
SYCOLIN ROAD WIDENING PHASE IV**

THE UNDERSIGNED CERTIFIES THAT (CONTRACTOR NAME):

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AGREES TO FURNISH ALL NECESSARY LABOR, EQUIPMENT, MATERIALS, AND ALL THINGS NECESSARY TO PERFORM THE WORK AS SET FORTH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AT THE FOLLOWING PRICES: (ALL PRICES INCLUDE PROVISION AND INSTALLATION).

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STIPULATED PRICE ITEMS: THE CONTRACTOR AGREES TO PERFORM RELATED WORK FOR THE FOLLOWING ITEMS AT THE STIPULATED PRICES SHOWN. USE OF THESE ITEMS WILL BE THE SOLE DISCRETION OF THE ENGINEER.

<u>ITEM</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
TRENCH ROCK EXCAVATION	CY	\$50.00
CRUSHER RUN VDOT #25 OR APPROVED EQUAL	CY	\$40.00

ROCK IS DEFINED AS ANY SOLID MATERIAL OR BOULDERS THAT CANNOT BE REMOVED FROM THE GROUND BY EXCAVATION EQUIPMENT WITHOUT THE USE OF A HOE RAM OR BLASTING METHODS.

<u>SUBMITTED BY:</u>	
VENDOR NAME:	
ADDRESS:	
CITY/STATE/ZIP:	
AUTHORIZED SIGNATURE:	
PRINT NAME AND TITLE:	
TELEPHONE NO:	FACSIMILE NO.:
STATE CORPORATION COMMISSION ID#	
TAX ID NUMBER (FIN/SSN):	VDOT Prequalified: Y / N
THIS FIRM IS A: (INSERT NAME OF STATE): _____	
___ CORPORATION	___ LIMITED PARTNERSHIP
___ GENERAL PARTNERSHIP	___ UNINCORPORATED ASSOC.
___ LTD LIABILITY COMPANY	___ SOLE PROPRIETORSHIP
E-MAIL ADDRESS:	LEESBURG BPOL #:

**ADDENDA**

Bidder acknowledges receipt of the following ADDENDA, which have been considered in the preparation of this bid.

Addendum No. \_\_\_\_\_  
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 Addendum No. \_\_\_\_\_

Dated: \_\_\_\_\_  
 Dated: \_\_\_\_\_  
 Dated: \_\_\_\_\_  
 Dated: \_\_\_\_\_  
 Dated: \_\_\_\_\_



BID FORM

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extension
		<b>Miscellaneous</b>				
1	513	Mobilization / Demobilization	LS	1		
2	517	Construction Survey	LS	1		
3	511	Allaying dust using water truck	DY*	35		
4	PLAN	Airport Sign, complete as per plan details and specifications Including Excavation & Backfill	LS*	1		
5	PLAN	Secondary Gateway Sign, complete as per plan details and specifications Including Excavation & Backfill	LS*	1		
6	PLAN	5'x4' Project Sign, complete as detailed in "Instructions to Bidders/Contract Items of Work".	EA*	5		
<del>7</del>	506, PLAN	Retaining wall ( <b>VDOT RW-2</b> ), complete as per plan details and specifications Including Excavation & Backfill	SF*	2,805		
<del>8</del>	PLAN	Install 4' Board Fence, <b>in kind</b> per plan details and specifications	LF*	215		
9	507	Standard FE-CL Chain Link Fence with Barbed Wire, Complete installation per plan details and specifications.	LF	365		
10	504	Install VDOT St'd HR-1 Type II Complying with Town DCSM 5-237 (for Retaining wall)	LF	160		
11	504	Install VDOT St'd HR-1 Type III Complying with Town DCSM 5-237 (for Retaining wall)	LF	505		
12	514	Field Office, VDOT Type II, complete as detailed in "Instructions to Bidders/Contract Items of Work".	LS*	1		
		<b>Sub-Total Miscellaneous</b>				

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
		<b>Clearing, Erosion &amp; Sediment Controls</b>				
13	301	Clearing & Grubbing Including but not limited to 225 trees 0-12' dia, 26 trees >12"-18" dia, 3 trees >18"-24" and 4 trees larger than 24" dia. As well as stump removal and disposal	LS	1		
14	DCSM	Air tool investigation / Root Pruning complete as required incl. Cambistat (Performed by certified arborist)	LF	2,375		
15	DSCM	Tree Branch/Limbs Pruning , complete as directed by Town Arborist	EA	5		
16	DCSM	Monitoring by Certified Arborist When Requested by Town	HR	20		
17	303	Construction Entrance Including Wash Rack, Complete in Place Incl. Maintenance & Removal	EA	2		
18	507	Safety Fence Complete in Place Incl. Maintenance & Removal	LF	6,000		
19	303	Silt Fence Complete in Place Incl. Maintenance & Removal	LF	5,920		
20	303	Super Silt Fence Complete in Place Incl. Maintenance & Removal	LF	50		
21	303, PLAN	Tree Protection Complete in Place Incl. Maintenance & Removal	LF	3,425		
22	303	Inlet Protection Complete in Place Incl. Maintenance & Removal	EA	68		
23	303	Diversion Dike, Complete in Place Incl. Maintenance & Removal	LF	1,600		
24	302, 303	Sediment Trap #1 (unclassified excavation), complete as per plans and specifications	LS*	1		
25	302, 303	Sediment Trap #2 (unclassified excavation), complete as per plans and specifications	LS*	1		
26	302, 303	Sediment Trap #3 (unclassified excavation), complete as per plans and specifications	LS*	1		
27	302, 303	Sediment Trap #4 (unclassified excavation), complete as per plans and specifications	LS*	1		
28	302, 303	Sediment Trap #5 (unclassified excavation), complete as per plans and specifications	LS*	1		
29	302, 303	Sediment Trap #6 (unclassified excavation), complete as per plans and specifications	LS*	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
30	PLAN	Ditch 'A', Complete in Place per plan details including excavation & grading	LF	360		
31	PLAN	Ditch 'C', Complete in Place per plan details including excavation & grading	LF	300		
32	502	Standard PG-5 Paved Ditch, Complete in Place per plan details including excavation & grading	SY	185		
33	414	Class I Rip Rap Complete in Place incl. excavation, fabric and installation	TN	30		
34	414	Class A1 Rip Rap Complete in Place incl. excavation, fabric and installation	TN	90		
35	606	Soil Stabilization Mat EC-3 Type B, Complete in Place per plan details including excavation & grading	SY	455		
36	603	Temp. Seeding & Mulching	SY*	11,000		
37	603	Permanent Seeding & Mulching Incl. Lime and Fertilizer	SY*	20,125		
		<b>Sub-Total Clearing, Erosion &amp; Sediment Controls</b>				
		<b>Demolition / Relocation</b>				
38	510	Remove / Dispose - 12" Pipe @ Structure (EX72)	LF	20		
39	510	Remove / Dispose - 15" Pipe, Between Structures (EX42 - EX43 - EX44), (EX40 - New 8.19), (EX44 - EX45), (EX48 - EX49), (EX55 - EX53), (EX71 - EX72)	LF	495		
40	510	Remove / Dispose - 24" Pipe, Between Structures (EX41 - EX42), (EX42 - EX46 - EX47 - EX48)	LF	570		
41	510	Remove / Dispose - Existing Wing wall (21, 22)	EA	2		
42	510	Remove & Dispose of Existing Storm Structure (28, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 71, 72)	EA	13		
43	PLAN	Existing Twin 5'x3' Concrete Box Culvert to be cleaned out	LF	50		
44	PLAN	Existing 15" Concrete Storm Pipe to be cleaned out	LF	335		
45	PLAN	Existing 48" Concrete Storm Pipe to be cleaned out	LF	70		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
46	PLAN	Field Adjust Sign "County of Loudoun - Central Warehouse", as shown on the plans	EA	1		
47	510	Remove / Dispose - Guard Rail	LF	170		
48	PLAN	Reset Existing Traffic Box	EA	1		
49	PLAN	Relocate Existing Sign	EA	7		
50	PLAN	Relocate Existing Sign behind trail @ Tavistock Dr.	EA	1		
51	PLAN	Remove & Dispose of Sign & Post	EA	33		
52	PLAN	Remove Existing Cross-Walk Signal	EA	2		
53	507	Remove / Dispose of Existing 6' Chain-link Fence	LF	390		
54	507	Remove / Dispose of Existing Fence	LF	215		
55	507	Remove Existing Bollards	EA	3		
56	507	Remove Existing Airport Sign	EA	1		
57	507	Remove Existing Barricade	EA	1		
58	508	Demo & Dispose of up to 10" Thick Flexible Pavement	SY	7,125		
59	508	Demo & Dispose of Existing Curb, and Gutter	LF	2,350		
60	315	Saw Cut Asphalt Concrete	LF	10,100		
		<b>Sub-Total Demolition / Relocation</b>				

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extension
		<b>Dry Utilities</b>				
61	PLAN	4-4" HDPE Loudoun County DIT Conduit, complete as per plan details and specifications Including Excavation & Backfill	LF	2,335		
62	PLAN	4-4" HDPE Loudoun County DIT Concrete Encased Conduit, complete as per plan details and specifications Including Excavation & Backfill	LF	545		
<b>63</b>	PLAN	Loudoun County DIT Hand hole ( <b>2'x3'x2'</b> ), complete as per plan details and specifications Including Excavation & Backfill	EA	6		
64	PLAN	2" Streetlight Conduit, complete as per plan details and specifications Including Excavation & Backfill	LF	6,890		
<b>65</b>	PLAN	<b>Install NOVEC supplied streetlight Splice Box, complete as per NOVEC specifications Including Excavation &amp; Backfill</b>	EA	41		
66	700	2" Traffic Signal Interconnect Conduit, complete as per plan details and specifications Including Excavation & Backfill	LF	2,330		
67	PLAN	Junction Box JB-S3, complete as per VDOT specifications Including Excavation & Backfill	EA	5		
68	700	4" PVC Conduit BORED, Complete in place.	LF	380		
		<b>Sub-Total Dry Utilities</b>				
		<b>Maintenance of Traffic (MOT)</b>				
69	512	Short Term Traffic Control (Including 2EA W20-7 "Flagman", 2EA W3-4 "Be Prepared To Stop", EA W20-4 "One Lane Road Ahead" & 2EA W20-1 "Road Work Ahead" Signs)	HR	2,500		
70	512	Type F CL I or II, Solid 4" White Line (1,000' MOT PH 1, 3,300' MOT PH 1A, 8,200' MOT PH 2, 7,000' MOT PH 3, 2,000' MOT PH 4)	LF	21,500		
71	512	Type F CL I or II, Dashed 4" White Line 2' long, 4' Space (60' MOT PH 1, 120' MOT PH 1A, 300' MOT PH 2, 410' MOT PH 3, 630' MOT PH 4)	LF	1,520		
72	512	Type F CL I or II, 24" Wide White Line (25' MOT PH 1A, 80' MOT PH 2, 210' MOT PH 3, 60' MOT PH 4)	LF	375		
73	512	Type F CL I or II, Solid 4" Yellow Line (2500' MOT PH 1, 300' MOT PH 3, 10,650' MOT PH 4)	LF	13,450		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extension
74	512	Type F CL I or II, White Pavement Message Mark "Elongated Arrow" (4EA MOT PH1, 4EA MOT PH 1A, 11EA MOT PH 2, 20EA MOT PH 3, 23EA MOT PH 4)	EA	62		
75	512	Type F CL I or II, Solid 4" Double Yellow Line with 4" Spacing (1,400' MOT PH 1A, 5,100' MOT PH 2, 5,700' MOT PH 3)	LF	12,200		
76	512	Type F CL I or II, 24" Wide White Line 12' Spacing @ 45° (100' MOT PH 1A, 230' MOT PH 2, 530' MOT PH 3)	LF	860		
77	512	Type F CL I or II, 4" White Line 10' long, 30' Space (190' MOT PH 2, 100' MOT PH 3)	LF	290		
78	512	Group II Channelization Devices (207EA MOT PH 1, 32EA MOT PH 1A, 10EA MOT PH 2, 60EA MOT PH 3, 290EA MOT PH 4)	EA*	350		
79	512	Supply, Install & Remove Type III (4') Barricade (5EA MOT PH 1, 1EA MOT PH 1A, 7EA MOT PH 2, 7EA MOT PH 3)	EA	7		
80	512 MOD	Relocate Type III (4') Barricade (5EA MOT PH 1, 1EA MOT PH 1A, 7EA MOT PH 2, 7EA MOT PH 3)	EA	13		
81	512	Supply, Install & Remove Type III (8') Barricade (1EA MOT PH 1A, 8EA MOT PH 2, 10EA MOT PH 3)	EA	10		
82	512 MOD	Relocate Type III (8') Barricade (1EA MOT PH 1A, 8EA MOT PH 2, 10EA MOT PH 3)	EA	9		
83	512	Supply, Install & Remove R9-9 30"x18" "Sidewalk Closed" Sign Incl. Post/Stand (5EA MOT PH 1, 1EA MOT PH 1A, 7EA MOT PH2, 7EA MOT PH 3)	EA	7		
84	512	Relocate R9-9 30"x18" "Sidewalk Closed" Sign Incl. Post/Stand (5EA MOT PH 1, 1EA MOT PH 1A, 7EA MOT PH2, 7EA MOT PH 3)	EA	13		
85	512	Supply, Install, Relocate & Remove R3-20L 24"x36" "Begin Left Turn Ln" Sign Incl. Post/Stand (1EA MOT PH 1)	EA	1		
86	512	Temporary Pavement Widening, Complete per plans and specifications Including Removal (14,400SF MOT PH 1, 2,100SF MOT PH 3)	SF	16,500		
<b>87</b>	512	Asphalt Build Up Under Traffic Prior to Installing Traffic Barricade for MOT PH 3, Complete per plans and specifications Including Removal	<b>TN</b>	<b>500</b>		
88	512	Supply, Install & Remove Concrete Traffic Barrier Service (1950' MOT PH 1A, 4,000' MOT PH 2, 2,800' MOT PH 3)	LF	4,000		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
89	512	Relocate Concrete Traffic Barrier Service (1950' MOT PH 1A, 4,000' MOT PH 2, 2,800' MOT PH 3)	LF	4,750		
90	512	Supply, Install & Remove Impact Attenuator Type 1-A (1EA MOT PH 1A, 8EA MOT PH2, 1EA MOT PH 3)	EA	8		
91	512	Relocate Impact Attenuator Type 1-A (1EA MOT PH 1A, 8EA MOT PH2, 1EA MOT PH 3)	EA	2		
92	PLAN	Supply, Install, Relocate & Remove Temporary Airport Sign (1EA MOT PH2, 1EA MOT PH 2A, 1EA MOT PH 3, 1EA MOT PH 4)	EA	1		
93	512	Supply, Install & Remove W20-2 "Detour Ahead" 48"x48" Sign Incl. Post/Stand (MOT PH 2A)	EA	1		
94	512	Supply, Install & Remove R3-2 24"x24" Sign Incl. Post/Stand (MOT PH 2A)	EA	1		
95	512	Supply, Install & Remove M4-VI 36"x36" Sign Incl. Post/Stand (MOT PH 2A)	EA	1		
96	512	Supply, Install & Remove I-5 24"x24" Sign Incl. Post/Stand (MOT PH 2A)	EA	7		
97	512	Supply, Install & Remove M4-9L 36"x36" Sign Incl. Post/Stand (MOT PH 2A)	EA	8		
98	512	Supply, Install & Remove M4-8A 24"x18" Sign Incl. Post/Stand (MOT PH 2A)	EA	2		
99	512	Supply, Install & Remove M4-9R 36"x36" Sign Incl. Post/Stand (MOT PH 2A)	EA	7		
100	512	Supply, Install & Remove M4-VP1A "Sycolin Rd" 54"x18" Sign Incl. Post/Stand (MOT PH 2A)	EA	9		
101	512	Supply, Install & Remove R3-1 24"X24" Sign Incl. Post/Stand (MOT PH 2A)	EA	1		
102	512	Supply, Install, Relocate & Remove W20-1 "Road Work Ahead" 48"x48" Sign Incl. Post/Stand (6EA MOT PH 1)	EA	6		
103	512	Supply, Install, Relocate & Remove R11-2 48"x30" "Road Closed" Sign Incl. Post/Stand	EA	2		
104	512	Supply, Install, Relocate & Remove R2-1 "Speed Limit 25" 48"x60" Sign Incl. Post/Stand	EA	4		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
105	512	Supply, Install & Remove W4-2L " T Sign Incl. Post/Stand	EA	2		
106	512	Supply, Install & Remove W9-3L "Left Lane Closed Ahead" 48"x48" Sign Incl. Post/Stand	EA	2		
107	512	Supply, Install & Remove W9-2R "Lane Ends Merge Right" 48"x48" Sign Incl. Post/Stand	EA	1		
108	512	Supply, Install & Remove W4-V7R "Keep Right" 48"x48" Sign Incl. Post/Stand	EA	1		
109	512	Supply, Install & Remove W21-1 "Road Work Ahead" 48"x48" Sign Incl. Post/Stand	EA	2		
110	512 MOD	Relocate W21-1 "Road Work Ahead" 48"x48" Sign Incl. Post/Stand	EA	12		
111	512	Supply, Install & Remove W21-4 "Road Under Construction" 48"x48" Sign Incl. Post/Stand	EA	6		
112	512	Supply, Install & Remove W21-5aR "Right Shoulder Closed" 48"x48" Sign Incl. Post/Stand	EA	2		
113	512	Relocate W21-5aR "Right Shoulder Closed" 48"x48" Sign Incl. Post/Stand	EA	8		
114	512	Supply, Install & Remove W21-5bR "Right Shoulder Closed Ahead" 48"x48" Sign Incl. Post/Stand	EA	2		
115	512	Relocate W21-5bR "Right Shoulder Closed Ahead" 48"x48" Sign Incl. Post/Stand	EA	6		
116	512	Supply, Install & Remove Additional Construction Sign 48"x48" (required but not in the project plans)	EA	10		
117	512	Relocate, Reset & Remove Construction Sign 48"x48"	EA	20		
118	512	Supply, Install & Remove G20-2V "End Road Work" 48"x24" Sign Incl. Post/Stand	EA	6		
119	512	Relocate G20-2V "End Road Work" 48"x24" Sign Incl. Post/Stand	EA	14		
120	512	Eradication / Type E Removable Tape of Existing Marking	LF	35,000		
121	512	Repair / Replace Temporary Impact Attenuator	EA	3		
122	512	Arrow Board	DY*	125		



Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
123	512	Portable Message Board	DY*	125		
124	520	Temporary MH Top, Complete per plans and specifications Including Removal (3EA MOT PH 1A, 7EA MOT PH2, 7EA MOT PH 3)	EA	17		
125	520	Temporary DI / Grate, Complete per plans and specifications Including Removal (1EA MOT PH 1)	EA	1		
		<b>Sub-Total Maintenance of Traffic</b>				
		<b>Storm Sewer</b>				
126	302	15" RCP Pipe, Completed in place including Excavation, Bedding & Backfill	LF	2,316		
127	302	18" RCP Pipe, Completed in place including Excavation, Bedding & Backfill	LF	206		
128	302	18" Gasketed RCP Pipe, Completed in place including Excavation, Bedding & Backfill	LF	76		
129	302	24" RCP Pipe, Completed in place including Excavation, Bedding & Backfill	LF	1,073		
130	302	48" RCP Pipe, Completed in place including Excavation, Bedding & Backfill	LF	49		
131	302	54" RCP Pipe, Completed in place including Excavation, Bedding & Backfill	LF	520		
132	302	23"x14" ERCP Elliptical Pipe, Completed in place including Excavation, Bedding & Backfill	LF	70		
133	302	30"x19" ERCP Elliptical Pipe, Completed in place including Excavation, Bedding & Backfill	LF	71		
134	PLAN	Box Culvert (STR 7.9), Double 5'X3', Complete in place including Excavation, Bedding & Backfill	LF*	172		
135	PLAN	Wing Wall Type A for Box Culvert, Complete in place including Excavation, Bedding & Backfill	EA	4		
136	302	Head Wall for Box Culvert, Complete in place including Excavation, Bedding & Backfill	EA	2		
137	302	STR 6.1, DI-3B (H=4.0', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
138	302	STR 6.2, DI-3B (H=4.1', L=8'), Complete in place including excavation, bedding & backfill	EA	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extension
139	302	STR 6.3, DI-3B (H=4.0', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
140	302	STR 6.4, DI-3B (H=4.3', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
141	302	STR 7.1, DI-3B (H=4.1', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
142	302	STR 7.2, DI-3AA (H=9.3'), Complete in place including excavation, bedding & backfill	EA	1		
143	302	STR 7.3, DI-3B (H=6.2', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
144	302	STR 7.4, DI-3B (H=4.8', L=4'), Complete in place including excavation, bedding & backfill	EA	1		
145	302	STR 7.5, DI-3B (H=6.3', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
146	302	STR 7.6, DI-3B (H=4.0', L=14'), Complete in place including excavation, bedding & backfill	EA	1		
147	302	STR 7.7, DI-3B (H=4.2', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
<b>148</b>	302	STR 7.8, <b>23" x 14" ES-1A</b> , Complete in place including excavation, bedding & backfill	EA	1		
149	302	STR 7.10, DI-3B (H=7.4', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
150	302	STR 7.11, DI-3A (H=4.0'), Complete in place including excavation, bedding & backfill	EA	1		
151	302	Existing 26, Adjust to Grade, Add St'd MH-1 Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
152	302	STR 7.12, DI-3A (H=4.3'), Complete in place including excavation, bedding & backfill	EA	1		
153	302	Existing 24, Adjust to Grade, Remove Existing Structure Top, Add St'd T-DI-2, Complete in place including excavation, bedding & backfill	EA	1		
154	302	STR 7.14, DI-3A (H=4.0'), Complete in place including excavation, bedding & backfill	EA	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
155	302	STR 8.1, 18" ES-1, Complete in place including excavation, bedding & backfill	EA	1		
156	302	STR 8.2, DI-3C (H=5.3', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
157	302	STR 8.4, DI-3B (H=4.1', L=12'), Complete in place including excavation, bedding & backfill	EA	1		
158	302	STR 8.5, DI-3C (H=5.4', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
159	302	STR 8.6, DI-3B (H=4.0', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
160	302	STR 8.7, DI-3B (H=4.1', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
161	302	STR 8.8, DI-3C (H=5.2', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
162	302	STR 8.9, DI-3B (H=4.0', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
163	302	STR 8.11, 48" ES-1, Complete in place including excavation, bedding & backfill	EA	1		
164	302	STR 8.16, DI-3BB (H=8.9', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
165	302	STR 8.17, DI-3B (H=6.1', L=16'), Complete in place including excavation, bedding & backfill	EA	1		
166	302	STR 8.18, DI-3A (H=4.1'), Complete in place including excavation, bedding & backfill	EA	1		
167	302	STR 8.19, St'd MH 1 or 2 (H=6.9') with Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
168	302	STR 8.21, DI-3B (H=3.9', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
169	302	STR 8.22, MOD JB-1, 2 Type B Towers and 2 St'd MH-1 Frame & Cover (H=8', W=4.5', D=30.5'), Complete in place including excavation, bedding & backfill	EA	1		
170	302	STR 8.23, MOD JB-1, 2 Type A Towers and 2 St'd MH-1 Frame & Cover (H=10.3', W=4', D=30.5'), Complete in place including excavation, bedding & backfill	EA	1		
171	302	STR 8.24, DI-3B (H=4', L=10'), Complete in place including excavation, bedding & backfill	EA	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extension
172	302	STR 8.25, 18" ES-1, Complete in place including excavation, bedding & backfill	EA	1		
173	302	STR 8.26, St'd MH 1 or 2 (H=5.4') with Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
174	302	STR 8.27, St'd MH 1 or 2 (H=6.2') with Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
175	302	STR 9.1, DI-3BB (H=8.1', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
176	302	STR 9.2, DI-3B (H=5.2', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
177	302	STR 9.3, DI-3A (H=5.4'), Complete in place including excavation, bedding & backfill	EA	1		
178	302	STR 9.4, DI-3B (H=5.1', L=4'), Complete in place including excavation, bedding & backfill	EA	1		
<b>179</b>	302	STR 9.5, DI-3B (H=4.4', L=6'), Complete in place including excavation, bedding & backfill	EA	<b>1</b>		
180	302	STR 9.6, DI-3B (H=5.2', L=4'), Complete in place including excavation, bedding & backfill	EA	1		
181	302	STR 9.7, DI-3C (H=4.7', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
182	302	STR 9.8, DI-3B (H=4.1', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
183	302	STR 9.9, DI-3B (H=4.0', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
184	302	STR 9.10, DI-3B (H=4.9', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
185	302	STR 9.11, St'd MH 1 or 2 (H=5.5') with Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
186	302	STR 9.12, St'd MH 1 or 2 (H=4.3') with Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
187	302	STR 9.13, DI-7 (H=3.4'), Incl. Grate A Type III, Complete in place including excavation, bedding & backfill	EA	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extension
188	302	STR 9.14, DI-2B (H=4', L=4'), Complete in place including excavation, bedding & backfill	EA	1		
<b>189</b>	302	STR <b>9.15</b> , DI-3A (H=4'), Complete in place including excavation, bedding & backfill	EA	1		
190	302	STR 10.1, DI-3B (H=4.4', L=10'), Complete in place including excavation, bedding & backfill	EA	1		
191	302	STR 10.2, DI-3B (H=4.1', L=14'), Complete in place including excavation, bedding & backfill	EA	1		
192	302	STR 10.3, DI-3B (H=4', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
193	302	STR 10.4, DI-3B (H=5.8', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
194	302	STR 10.5, DI-3A (H=4.3'), Complete in place including excavation, bedding & backfill	EA	1		
195	302	STR 10.6, DI-3B (H=4.2', L=6'), Complete in place including excavation, bedding & backfill	EA	1		
196	302	STR 11.1, DI-3B (H=4', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
197	302	STR 11.2, St'd MH 1 or 2 (H=4.1') with Frame & Cover, Complete in place including excavation, bedding & backfill	EA	1		
198	302	STR 11.3, DI-2B (H=4', L=8'), Complete in place including excavation, bedding & backfill	EA	1		
199	302	STR 11.4, DI-3B (H=5.2', L=12'), Complete in place including excavation, bedding & backfill	EA	1		
200	302	Existing 56, MOD Existing Structure, Adjust to Grade, Complete in place including excavation, bedding & backfill	EA	1		
201	302	End wall EW-12 - 3:1 Slope , Complete in place including excavation, bedding & backfill	EA	1		
202	501	Underdrain UD-4, Complete in place including excavation, fabric, bedding, tie-in & backfill	LF	9,320		
203	501	Underdrain UD-2, Complete in place including excavation, fabric, bedding, tie-in & backfill	LF	1,500		
		<b>Sub-Total Storm Sewer</b>				

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
		<b>Sanitary Sewer and Water Line</b>				
204	510, DCSM	Adjust Existing Sanitary MH "H", Complete installation including excavation and backfill.	LS	1		
205	510, DCSM	Modify Existing Sanitary MH "J", Complete installation including excavation and backfill.	LS	1		
206	510, DCSM	Modify Existing Sanitary MH "K", Complete installation including excavation and backfill.	LS	1		
207	510, DCSM	Modify Existing Sanitary MH "O", Complete installation including excavation and backfill.	LS	1		
208	510, DCSM	Existing 8" Sanitary to be Flowable Filled and Abandoned	LF*	385		
209	510, DCSM	Abandon Existing Sanitary MH "P" per Town DCSM Standard SS-32	LS	1		
210	509, DCSM	Abandon Existing Sanitary Sewer from MH "P" to MH "O"	LS	1		
		<b>Sub-Total Sanitary Sewer and Water Line</b>				
		<b>Water Line</b>				
211	520, DCSM	8" D.I.P Waterline Polyethylene Encased with all necessary connections, complete in place including excavation, bedding and backfill	LF	53		
212	520, DCSM	10" D.I.P Waterline Polyethylene with all necessary connections, complete in place including excavation, bedding and backfill	LF	50		
213	520, DCSM	12" D.I.P Waterline Polyethylene with all necessary connections, complete in place including excavation, bedding and backfill	LF	132		
214	520, DCSM	16" D.I.P Waterline Polyethylene with all necessary connections, complete in place including excavation, bedding and backfill	LF	511		
215	520, DCSM	16" X 12" TEE, complete in place including excavation, bedding and backfill	EA	1		
216	520, DCSM	12" X 8" TEE, complete in place including excavation, bedding and backfill	EA	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
217	520, DCSM	16" X 6" TEE, complete in place including excavation, bedding and backfill	EA	4		
218	520, DCSM	10" X 6" TEE, complete in place including excavation, bedding and backfill	EA	1		
219	520, DCSM	8" X 6" TEE, complete in place including excavation, bedding and backfill	EA	2		
220	520, DCSM	12" X 10" CROSS, complete in place including excavation, bedding and backfill	EA	3		
221	520, DCSM	16" X 12" Reducer, complete in place including excavation, bedding and backfill	EA	1		
222	520, DCSM	16" X 10" Reducer, complete in place including excavation, bedding and backfill	EA	1		
223	520, DCSM	10" X 6" Reducer, complete in place including excavation, bedding and backfill	EA	1		
224	520, DCSM	16" Butterfly Valve, complete in place including excavation, bedding and backfill	EA	1		
225	520, DCSM	12" Gate Valve, complete in place including excavation, bedding and backfill	EA	2		
226	520, DCSM	10" Gate Valve, complete in place including excavation, bedding and backfill	EA	1		
227	520, DCSM	6" Gate Valve, complete in place including excavation, bedding and backfill	EA	5		
228	520, DCSM	8" Inserting Valve, complete in place including excavation, bedding and backfill	EA	2		
229	520, DCSM	16" 45° Horizontal Bend, complete in place including excavation, bedding and backfill	EA	2		
230	520, DCSM	12" 45° Horizontal Bend, complete in place including excavation, bedding and backfill	EA	6		
231	520, DCSM	10" 45° Horizontal Bend, complete in place including excavation, bedding and backfill	EA	4		
232	520, DCSM	8" 45° Horizontal Bend, complete in place including excavation, bedding and backfill	EA	4		
233	520, DCSM	16" 22.5° Horizontal Bend, complete in place including excavation, bedding and backfill	EA	2		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
234	520, DCSM	12" 22.5° Horizontal Bend, complete in place including excavation, bedding and backfill	EA	1		
235	520, DCSM	12" 45° Vertical Bend, complete in place including excavation, bedding and backfill	EA	2		
236	520, DCSM	6" 45° Vertical Bend, complete in place including excavation, bedding and backfill	EA	2		
237	520, DCSM	FH Assembly, complete in place including excavation, bedding and backfill	EA	13		
238	520, DCSM	Connect to existing 16" D.I.P watermain	LS	1		
239	520, DCSM	Connect to existing 12" D.I.P watermain	LS	1		
240	520, DCSM	Connect to existing 10" D.I.P watermain	LS	1		
241	520, DCSM	Connect to existing 8" D.I.P watermain	LS	1		
242	520, DCSM	Connect to existing 6" D.I.P watermain	EA	9		
243	520, DCSM	Install 18"x18"x6" Concrete Collar, complete in place including excavation, bedding and backfill	EA	12		
244	510, DCSM	Remove Existing 2" Blow-off Valve, complete in including excavation, bedding and backfill	EA	2		
245	510, DCSM	Remove & Dispose of Waterline Pipe	LF	700		
246	510, DCSM	Remove Existing FH & Valves	EA	7		
247	510, DCSM	Remove Existing Water Valve	EA	5		
248	510, DCSM	Adjust Existing Water Valve Box to Final Grade, complete in including excavation, bedding and backfill	EA	24		
249	510, DCSM	Adjust Air Release Valve & Box to be outside of proposed Curb & Gutter, complete in including excavation, bedding and backfill	EA	2		



Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
250	510, DCSM	Adjust Existing FH to Final Grade, complete in including excavation, bedding and backfill	EA	1		
251	520, DCSM	End Waterline 'G' to be MJ Capped (Plated) per Plans and Specifications	EA	1		
252	520, DCSM	Plug Existing TEE @ (FH "7") per plans and Specifications	EA	1		
		<b>Sub-Total Water Line</b>				
		<b>Pavement</b>				
253	308, 309	Aggregate Base, VDOT 21-B, Complete in Place incl. fine grading	TN	16,500		
254	315	Base Asphalt Mix, BM-25.0A	TN	8,300		
255	315	Intermediate Asphalt Mix, IM-19.0A	TN	3,400		
256	315	Surface Asphalt Mix, SM-9.5D	TN	2,800		
257	515	Milling of Asphalt Pavement (Min. 2")	SY	22,500		
258	315	Resurface Milled Area with Surface Mix, SM 9.5D	TN	2,970		
259	315	Additional Base Asphalt BM-25.0A for Pipe Trench	TN	300		
260	315	Additional Intermediate Asphalt IM-19.0A for Pipe Trench	TN	150		
261	PLAN, DCSM	10' Asphalt Shared Use Path, Complete in place including excavation, (6") VDOT 21-A & (2") SM-9.5A Asphalt	LF	3,270		
262	504	5' Concrete Side walk, Complete in place incl. excavation, VDOT 21-A & Concrete	LF	3,410		
263	502	Curb & Gutter - CG6, Complete in place incl. excavation, stone under curb & backfill	LF	7,650		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
264	502	Median Strip MS-1, Complete in place incl. excavation, stone base & Backfill	SY	1,625		
265	502	Median Strip MS-1A, Complete in place incl. excavation, stone base & Backfill	SY	375		
266	502	Median Strip MS-2 (CG-2), Complete in place incl. excavation, stone base & backfill	LF	2,880		
267	504	CG-12A, Handicap Ramp, Complete in place incl. excavation, stone base & backfill	EA*	1		
268	504	CG-12B, Handicap Ramp, Complete in place incl. excavation, stone base & backfill	EA*	14		
269	504	CG-12C, Handicap Ramp, Complete in place incl. excavation, stone base & backfill	EA*	2		
270	502	CG-11 Standard Type IV, Complete in place incl. excavation, stone base & backfill	LF	190		
		<b>Sub-Total Pavement</b>				
		<b>Pavement Marking / Signs</b>				
271	704	Single Solid 5" White line Type B CL I	LF	1,510		
272	704	Single Dashed / Dotted 5" White Line Type B CL I (2' long, 4' space)	LF	860		
273	704	Single Dashed/ Dotted 5" White Line Type B CL I (10' long, 30' Skips)	LF	1,310		
274	704	Single Solid 5" Yellow Line Type B CL I	LF	5,580		
275	704	Double Solid 5" Yellow Line with 4" Spacing Type B CL I	LF	260		
276	704	Single Solid 6" White line Type B CL I	LF	1,300		
277	704	Single Solid 8" White line Type B CL I	LF	400		
278	704	Single Dashed/ Dotted 8" White Line Type B CL I (3' long, 9' Skips)	LF	100		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
279	704	24" Wide White Line Type B CL I	LF	2,150		
280	704	Pavement Message Mark "Elongated Arrow"	EA	47		
281	704	Pavement Message Mark "ONLY" Solid White 6' Long Type B CL I	EA	14		
282	704	Single Solid 4" White line Type B CL I	LF	700		
283	704	Single Dashed / Dotted 4" White Line Type B CL I (2' long, 4' space)	LF	200		
284	704	Single Dashed/ Dotted 4" White Line Type B CL I (10' long, 30' Skips)	LF	800		
285	704	Single Solid 4" Yellow Line Type B CL I	LF	4,100		
286	704	Sign R6-1L (36"x12") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	2		
287	704	Sign R3-7R (30"X30") Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
288	704	Sign R3-7L (30"X30") Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	3		
289	704	Sign R3-7L [SPECIAL] (30"X30" & 36"x18") Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
290	704	Sign R4-7 (24"X30") Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	14		
291	704	Sign R2-1 (30"X36") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	6		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
292	704	Sign R2-1 [SPECIAL] (30"X36" & 36"x24") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
293	704	Sign RI-1 (30"x30") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	5		
294	704	Sign I-5 (24"x24") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
295	704	Sign M5-1 (21"x15") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
296	704	SPECIAL Sign "Leesburg CORPORATE LIMITS" (40"x18") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
297	704	SPECIAL Sign "Loudoun Center PL NEXT SIGNAL" (66"x48") Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	2		
298	704	SPECIAL Sign "Miller Dr" Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
299	704	SPECIAL Sign "Sycolin Rd" Diamond Grade - Prismatic Lens, Reflective Sheeting, Complete incl. 2x2, 14 Gauge Galv Steel Post (per DCSM TS-5, Plan & Specifications)	EA	1		
300	704	Type III Traffic Barricade TS-22	LF	60		
		<b>Sub-Total Pavement Marking / Signs</b>				

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
		<b>Traffic Signal</b>				
		<b>I - Tavistock Dr &amp; Sycolin Rd</b>				
301	700	2" PVC Conduit, Complete in place incl. excavation, bedding & backfill	LF	2,655		
302	700	3" PVC Conduit, Complete in place incl. excavation, bedding & backfill	LF	580		
303	700	4" PVC Conduit, Complete in place incl. excavation, bedding & backfill	LF	325		
304	700	14/2C (S) Conductor Cable Shielded	LF	4,870		
305	700	14/2C Conductor Cable	LF	1,890		
306	700	14/4C Conductor Cable	LF	1,110		
307	700	14/7C Conductor Cable	LF	2,490		
308	700	14/1 Enclosed Conductor Cable	LF	7,000		
309	700	#6 AWG (EGC)	LF	975		
310	700	1310 NM Fiber Optic Cable (Min. 8 Fibers)	LF	175		
311	700	Fiber Optic Termination and Testing	LS	1		
312	703	Video control cable-16/3C power & 8281 Belden coax	LF	1,625		
313	703	KUSA or Equivalent Managed Gigabit Traffic Ethernet Card, per plans and specifications	EA	3		
314	703	PRE-EMPTION Detector Cable	LF	500		
315	703	Video Detection Cameras, complete incl. Cables, installation as per plans and specifications	EA	2		
316	700	Junction Box, JB - R1, Complete in place as per plans and specifications	EA	13		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
317	700	Adjust Existing Junction Box to Grade, Complete in place	EA	2		
318	703	Reno A&E Model 1203R Loop Detector Amplifier Complete installed as per plans & specifications	EA	10		
319	703	Traffic Signal Head Section 12" LED, Complete as per plans and specifications	EA	34		
320	PLAN	Relocate Video Imaging Detection System Camera, complete as per plans and specifications	EA	2		
321	PLAN	Relocate Emergency Preemption Detector & Light, complete as per plans and specifications	EA	2		
322	703	Pedestrian Pole, Complete as per plans and specifications	EA	6		
323	703	Pedestrian Signal Head, Complete as per plans and specifications	EA	6		
324	703	Pedestrian Push Button with Sign, Complete as per plans and specifications	EA	6		
325	700	Concrete Foundation pedestal Pole, Incl. excavation, backfill and all incidentals	EA	6		
326	PLAN	Remove Existing Signal Equipment per plans	EA	5		
327	PLAN	Reset Existing Signal Equipment to Finish Grade per plans and specifications	EA	1		
328	PLAN	Provide Temporary Signal / Maintain Signal Operations throughout All MOT Phases	LS	1		
329	PLAN	Abandon Conduits per plans	LS	1		
330	PLAN	Relocate Existing Sign per plans	EA	5		
331	PLAN	Remove Existing Signal Head Section per plans	EA	8		
332	PLAN	Remove Existing Wires per Plans	LS	1		

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
333	PLAN	Mast Arm Mounted Sign S-1 "Tavistock Dr SE" (78"X18"), Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. installation	EA	1		
334	PLAN	Mast Arm Mounted Sign S-2 "Sycolin Rd" (78"X18"), Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. installation	EA	1		
335	PLAN	Mast Arm Mounted Sign S-3 "Tavistock Dr SE" (78"X18"), Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. installation	EA	1		
336	PLAN	Mast Arm Mounted Sign S-4, R10-12 (30"X36"), Diamond Grade - prismatic Lens, Reflective Sheeting, Complete incl. installation	EA	3		
337	703	Saw Cut Asphalt for Loop Detectors	LF	1,600		
		<b><i>II- Loudoun Center PI &amp; Sycolin Rd</i></b>				
338	700	1" PVC Conduit, Complete in place incl. excavation, bedding & backfill	LF	30		
339	700	14/2C (S) Conductor Cable Shielded	LF	2,100		
340	700	14/7C Conductor Cable	LF	400		
341	700	14/1 Enclosed Conductor Cable	LF	800		
342	PLAN	Temporary Traffic Signal (if required)	LS	1		
343	703	Remove Existing Sign	EA	1		
344	703	Relocate Existing Sign per plans	EA	1		
345	703	Saw Cut Asphalt for Loop Detectors	LF	300		
		<b><i>Sub-Total Traffic Signal</i></b>				

Ref.	Spec No.	Pay Item Description	Pay Unit	Qty.	Unit Price	Extended Price
		<b>Earthwork</b>				
346	303	Unclassified Excavation (including but not limited to Asphalt & Concrete)	CY	17,800		
347	303	Unclassified Excavation to haul off-site	CY	9,500		
348	303/305	Import Suitable Structural Fill Material	CY	6,000		
349	303	Undercut unsuitable and REPLACE with select material type I Min. CBR 30, complete incl. disposal	CY	4,100		
350	305	Geo grid Fabric for subgrade stabilization, complete incl. installation as per plans and specifications	SY	6,000		
351	303	Undercut Rock (6") & Backfill with VDOT 21-B	CY	500		
352	603	4% Lime treatment for top 1' of subgrade layer in accordance with VDOT guidelines for moisture control /stabilization (IF REQUIRED - to be used at the direction of the Town )	SY*	6,000		
353		Trench Rock Excavation Allowance	CY	1,500		
354	PLAN	Grade 15'x10' Airport Pad, complete per plan and specifications	LS	1		
355	602 MOD	3" Respread Topsoil	CY	1,500		
		<b>Sub-Total Earthwork</b>				
		<b>TOTAL</b>				

\* Adapted units of measure

Contract units of measure are modified from VDOT Road and Bridge Specifications



