

Pennies for Progress 3

Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014

ADDENDUM NO. 5 December 11, 2023

The following information is included in Addendum No. 5:

1. Bid date changed to Monday December 18 at 3:00 p.m.
2. Responses to Bidders Questions
3. Revised Bid Schedule
4. Page 1 of 4 Division I – Section 4C Special Conditions
5. Revised Plan Sheet 2 – Summary Estimated Quantities
6. Revised Plan Sheet 5 – General Construction Notes
7. Revised Plan Sheet G-0 – Water Relocations
8. Revised Sheet G-0 – Sewer Relocations
9. Section 01220 – Unit Prices for Water and Sewer Items

Change 1: Change Bid Opening date to **Monday December 18 at 3:00 p.m.**

Change 2: Additional Responses

1. Underground Tanks should be an allowance and not included in the lump sum for Removal of Obstructions.

There are no known underground storage tanks (UST) within the project right-of-way that would need removed, nor the need for removal of contaminated soil. No items are included in the bid form for this work.

The item “Removal and Disposal of Structures and Obstructions” is for removal of the structure at 2555 Saluda Ave., Rock Hill, SC, per item 3 of the Special Conditions.

Item 5 of the Special Conditions has been revised.

2. Fine grading is way more than 5600 SY.

The fine grading quantity provided in the bid form was in error. The bid form has been corrected to 33,610 SY.

3. Selected Clearing item, there are no "X" on trees to be selected clearing nor is there a quantity, since this is by direction of the engineer there needs to be a quantity.

The intention of the selected clearing item was to include areas within the construction limits but outside the right-of-way. In order to avoid confusion, the items 2011000 Clearing and Grubbing within R/W LS and 2015010 Selected Clearing LS have been replaced with Item 2012000 Clearing & Grubbing within Roadway LS. Per SCDOT Standard Specifications for Highway Construction 2007, Section 201, Clearing and Grubbing within Roadway is extended to construction limits when indicated in the plan. Construction limits are provided in the bid plans.

4. On the traffic control plan, there is temp concrete barrier in the legend, but there is not shown on the drawings- will temp concrete barrier be required?

There is no temporary concrete barrier required for the project.

5. The 12" DIP water line quantities seem low for what is shown on the plans. Can bid items be provided for the following items:

- a. 12" MJ Gate Valves – A bid item has been added.
- b. 8" MJ Gate Valves – A bid item has been added.
- c. 6" MJ Gate Valves – A bid item has been added.
- d. We request that fittings be paid for by the each for each individual size. See General Note 52 on sheet G-1 of the Water Relocations plans. Cost of fittings will be included in the linear foot for installed pipe.
- e. 12" open cut casing – A bid item has been added.
- f. Relocate/reconnect existing $\frac{3}{4}$ " water meters – Reconnection to existing meters have been broken out by side – short side service and long side service. Items have been added to describe the size of the service line.

6. The fine grade quantity is low.

See response to question 2.

7. What is covered in the Pay Item Stormwater Management Basin? We could not find this pay item in the SCDOT standards.

The pay item for stormwater management basin work is as described for “silt basin” in section 815 Erosion Control, of the SCDOT Standard Specifications for Highway Construction, 2007 except that the stormwater management basin is not to be backfilled at the end of construction, sediment control items will be removed and it will be used as a permanent stormwater management basin.

8. Will mass rock excavation be paid in the rock excavation item? The construction notes say it is for rock associated with drainage.

Rock excavation meeting the requirements of Section 203.2.1.7 will be paid with Item 2033000. Construction note has been updated to read “Where directed by the Engineer”.

9. The detectable warning surface item is usually paid for by SF. It is listed as SY in the bid quantities. What is the intent for the quantities?

The correct unit of measurement is SF.

10. We cannot find a specification the temporary barrier fence. It is assumed this is safety fence/tree fence. Is that correct?

The supplemental specification for Temporary Barrier Fence may be found on the SCDOT website at <https://www.scdot.org/business/technicalPDFs/supSpecs/TempBarrier-FenceSS-070121-Approved.pdf> The intent is to use the temporary barrier fence at the stormwater ponds until permanent fence is installed.

11. The UST special provision (5) is open ended. What happens if we hit contaminated soil?

See response to question 1.

12. Is there a measurement of payment you can send me for the utility scope?

Section 01220 – Unit Prices for Water and Sewer Items has been added to Division I – Section 4D of the Project Manual.

13. Is the Bid tab line item W13 (Polywrap for 12" DIP) supposed to include the pipe installation as well?

No. The polywrap quantities do not include pipe installation.

14. There is only one section (+/- 224 LF) of polywrap called out on the drawings and the bid item has 3,244 LF. If the polywrap is to include the pipe installation (which it appears so based on the other LF pipe items not being enough to complete the job) this would be a big concern due to I only see us installing 224 feet of polywrap at this point.

Please bid the listed quantities. Begin and end points for polywrap are shown in the plan view. In that only one was shown in the profile was an oversight.

15. There is also reference to as built drawings in the special provisions but I don't see a pay item for it.

Pay item 1090200 LS has been added to the Bid Form.

Change 3: Revised Bid Schedule attached highlighted changes

Change 4: Revised Page 1 of 4 Division I – Section 4C Special Conditions

Change 5: Revised Plan Sheet 2 – Summary Estimated Quantities attached

Change 6: Revised Plan Sheet 5 – General Construction Notes attached

Change 7: Revised Plan Sheet G-0 – Water Relocations attached

Change 8: Revised Sheet G-0 – Sewer Relocations attached

Change 9: Section 01220 – Unit Prices for Water and Sewer Items attached

**Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - ROADWAY**

All work performed by the Contractor as essential to the completion of the intent of the Contract Documents shall be paid for in accordance with the Bid Schedule. No direct payment will be made for work performed which is not shown as a separate Bid Item. All costs shall be included in the various pay items in the Bid Schedule or an amount shown as Total Bid Amount for the work shown on the proposed project plans.

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
1031000	MOBILIZATION	1.000	LS		
1031100	MOBILIZATION - SUBCONTRACTOR	1.000	LS		
1032010	BONDS AND INSURANCE	1.000	LS		
1050800	CONST. STAKES, LINES & GRADES	1.000	EA		
1052001	UTILITY STAKING	1.000	LS		
1071000	TRAFFIC CONTROL	1.000	LS		
1071504	LAW ENFORCEMENT OFFICER	240.000	HR		
1080300	CPM PROGRESS SCHEDULE	1.000	LS		
1090200	AS-BUILT CONSTRUCTION PLANS	1.000	LS		
2012000	CLEAR. & GRUB. WITHIN ROADWAY	1.000	LS		
2021000	REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS	1.000	LS		
2021005	REM.&DISP.OF EXIST.CATCH BASIN	3.000	EA		
2021010	REM.&DISP.OF EXIST. DROP INLET	4.000	EA		
2021015	REM.& DISP.OF EXISTING MANHOLE	1.000	EA		
2022000	REMOVAL & DISPOSAL ITEM NO. 1	1.000	LS		
2022000	REMOVAL & DISPOSAL ITEM NO. 2	1.000	LS		
2022000	REMOVAL & DISPOSAL ITEM NO. 3	1.000	LS		
2023000	REM. & DISP.OF EXIST. PAVEMENT	5,795.000	SY		
2023000	REM. & DISP.OF EXIST. ASPHALT PAVEMENT	11,623.000	SY		
2031000	UNCLASSIFIED EXCAVATION	18,065.000	CY		
2032000	ROCK EXCAVATION	1,000.000	CY		
2033000	BORROW EXCAVATION	33,236.000	CY		
2081001	FINE GRADING	33,610.000	SY		
3069900	MAINTENANCE STONE	3,000.000	TON		
3100310	H/M ASPH. BASE CR.-TYPE A	13,421.000	TON		
4011004	LIQUID ASPHALT BINDER PG64-22	2,292.000	TON		
4012060	FULL DEPTH ASPH. PAV. PATCHING 6" UNIF.	2,100.000	SY		

**Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - ROADWAY**

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
4012060	FULL DEPTH ASPH. PAV. PATCHING 12" UNIF.	1,400.000	SY		
4012120	MILLING EXISTING ASPHALT PAVEMENT 2.0"	58,300.000	SY		
4033150	MILLING EXISTING ASPHALT PAVEMENT 1.5"	2,464.000	SY		
4013990	MILL.EXIST.ASPH.PVMT.-VARIABLE	2,000.000	SY		
4020320	H/M ASPH.INTERMEDIATE CR.TYPE B	20,864.000	TON		
4030320	H/M ASPH.SURF. CR.TYPE B	9,826.000	TON		
4030360	H/M ASPH.SURF.CR. TYPE E	293.000	TON		
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	1,076.000	SF		
609105A	PAVEMENT MARKINGS(TEMP-PAINT) 4" WHITE BROKEN LINES	7,367.000	LF		
609105B	PAVEMENT MARKINGS(TEMP-PAINT) 4" YELLOW BROKEN LINES	8,440.000	LF		
609115A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-4" WHITE SOLID LINES	164,898.000	LF		
609115B	PAVEMENT MARKINGS(TEMPORARY-PAINT)-4" YELLOW SOLID LINES	172,256.000	LF		
609125A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-8" WHITE SOLID LINES	4,466.000	LF		
609135A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-24"WHITE SOLID LINES	971.000	LF		
609160A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-WHITE SINGLE ARROW	74.000	EA		
609180A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-WHITE WORD 'ONLY'	88.000	EA		
609165A	PAVEMENT MARKINGS(TEMP.-PAINT)-WHITE COMBINATION ARROWS	12.000	EA		
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	565.000	EA		
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	220.000	EA		
6271005	4" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	4,769.000	LF		
6271010	4" WHITE SOLID LINES (PVT. EDGE LINES) THERMO.- 90 MIL.	7,825.000	LF		
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	3,170.000	LF		
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	4,430.000	LF		
6271030	WHITE SINGLE ARROWS (LT, STRGHT, RT) THERMO.-125 MIL.	54.000	EA		
6271035	WHITE WORD MESSAGE "ONLY" -THERMOPLASTIC - 125 MIL.	36.000	EA		
6271040	WHITE COMBINATION ARROWS(STR&RT.OR STR<)THERMO-125MIL	2.000	EA		
6271064	4" YELLOW BROKEN LINES(GAPS EXC)THERMOPLASTIC - 90 MIL.	2,465.000	LF		
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	38,069.000	LF		
6280112	6"YELLOW SOLID LINES ON CURB/MED.-HIGH BUILD PAINT-25 MIL.	4,892.000	LF		

**Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - ROADWAY**

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
6300005	PERMANENT CLEAR PAVEMENT MARKERS- MONO DIR.- 4"X4"	386.000	EA		
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	258.000	EA		
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	1,028.500	SF		
6510106	FLAT SHEET, TYPE III, SIZE DETERMINED BY MSG	149.750	SF		
6510111	FLAT SHEET,TYPE-VIII,IX, OR XI, FIXED SIZE & MSG.	15.000	SF		
6513015	MOUNTING ASSEMBLY FOR F.S. SIGN ERECTED ON SPAN WIRE	3.000	EA		
6531205	U-SECTION POST FOR SIGN SUPPORTS - 2P	100.000	LF		
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	1,240.000	LF		
675027C	FURNISH & INSTALL 3.0" SCHEDULE 80 PVC CONDUIT	60.000	LF		
6750275	FURNISH & INSTALL 1.0" SCHEDULE 80 PVC CONDUIT	360.000	LF		
6750278	FURNISH & INSTALL 2.0" SCHEDULE 80 PVC CONDUIT	1,765.000	LF		
6760060	FURNISH & INSTALL 2" SCHEDULE 80 HDPE (TRENCHLESS)	300.000	LF		
6770388	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - (BLACK)	350.000	LF		
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - (GRAY)	3,230.000	LF		
6770393	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (BLACK)	1,575.000	LF		
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	845.000	LF		
2770395	FURNISH & INTALL NO. 14 COPPER WIRE, 12 CONDUCTOR (BLACK)	550.000	LF		
6770413	FURNISH & INSTL NO. 14 COPPER WIRE,1- CONDUCTOR FOR LOOP WIRE	2,945.000	LF		
6780495	SAWCUT FOR LOOP DETECTOR	1,025.000	LF		
6800499	FURNISH & INSTALL ELECTRICAL SERVICE FOR TRAFFIC SIGNAL	2.000	EA		
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	14.000	EA		
680052C	F&I-17"X30"X24"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	2.000	EA		
6825052	F&I 13"X32' STEEL STRAIN POLE-POWDER COATED AND FOUNDATION	8.000	EA		
6825090	FURNISH & INSTALL 1/4" GALVANIZED STEEL CABLE	830.000	LF		
6825092	FURNISH & INSTALL 3/8" GALVANIZED STEEL CABLE	830.000	LF		
6825480	FURNISH & INSTALL 4' BREAK-AWAY ALUMINUM PEDESTAL POLE AND BASE	14.000	EA		
6825484	FURNISH & INSTALL 10' BREAK-AWAY ALUM PEDESTAL POLE AND BASE	4.000	EA		
6845511	F&I - CONTR 332/336 CABINET ASSEMBLY - BASE MOUNTED	2.000	EA		
6865701	F&I - SOLAR POWERED FLASHER ASSEMBLY - DUAL BEACON	2.000	EA		
6865720	F&I - 12" 4 SECTION SIGNAL HEAD	2.000	EA		

**Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - ROADWAY**

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
6865723	F&I - 12" 3 SECTION SIGNAL HEAD	15.000	EA		
6865782	F&I - 1-WAY-1SECT.HAND/MAN COUNTDOWN PEDESTRIAN SIGNAL HEAD	12.000	EA		
6865797	F&I-PED PUSH BUT.SOLID STATE W/ LIGHT&TONE ASSEM 9"X15"&SIGN (R-10-3E)	12.000	EA		
6887951	FURNISH & INSTALL CONCRETE CABINET FOUNDATION	2.000	EA		
6888192	POWDERCOATING OPTION FOR 4' ALUMINUM PEDESTAL POLE	14.000	EA		
6888194	POWDERCOATING OPTION FOR 10' ALUMINUM PEDESTAL POLE	4.000	EA		
7143610	15" SMOOTH WALL PIPE	196.000	LF		
7143618	18" SMOOTH WALL PIPE	12,560.000	LF		
7143624	24" SMOOTH WALL PIPE	3,660.000	LF		
7143630	30"SMOOTH WALL PIPE	280.000	LF		
7143636	36" SMOOTH WALL PIPE	3,120.000	LF		
7143636	29"X 45" HORIZONTAL ELLIPTICAL(HE) RC PIPE CUL.-CLASS HE-III	32.000	LF		
7143806	24"X15" SMOOTH WALL PIPE CUL. TEE	3.000	EA		
7149998	VIDEO PIPE INSPECTION	19,168.000	LF		
7191005	CATCH BASIN -TYPE 1 CB - TYPE 1	5.000	EA		
7191205	CATCH BASIN -TYPE 9	2.000	EA		
7191250	CATCH BASIN -TYPE 9 MH	2.000	EA		
7191605	CATCH BASIN -TYPE 16	102.000	EA		
7191650	CATCH BASIN -TYPE 18	10.000	EA		
7192020	DROP INLET (24" X 36")	10.000	EA		
7192105	MANHOLE	23.000	EA		
7193005	PRECAST CONCRETE RISER - 48" DIAMETER	8.000	LF		
7199100	BEVELING OF PIPE END	4.000	EA		
7199200	4' SLOPE FLUME (6" CURB STYLE WITH CUTOFFS)	19.000	LF		
7202000	HANDWORK THROAT CURB TO FLUME OR INLET	1.000	EA		
7203130	CONCRETE CURB AND GUTTER(1'-6") OGEE	190.000	LF		
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	25,420.000	LF		
7204100	CONCRETE SIDEWALK(4" UNIFORM)	17,050.000	SY		
7204900	DETECTABLE WARNING MATERIAL	580.000	SF		

**Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - ROADWAY**

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
7205000	CONCRETE DRIVEWAY(6" UNIFORM)	4,561.000	SY		
7206000	CONCRETE MEDIAN	1,245.000	SY		
7209000	PEDESTRIAN RAMP CONSTRUCTION	1,125.000	SY		
8041020	RIP-RAP (CLASS B)	939.000	TON		
8048210	GEOTEX/EROS.CONT(CLASS2)TYPE C	1,093.000	SY		
8051151	MT3 LEADING END TREATMENT TL3	3.000	EA		
8051710	MB TRAILING END TREATMENT	3.000	EA		
8052200	MGS2C GUARDRAIL BEHIIND CURB	387.500	LF		
8063200	60" CHAIN LINK FENCE (NEW FENCE ITEM NO. 1)	570.000	LF		
8063400	72" SECURITY CHAIN LINK FENCE	1,917.000	LF		
8644200	4' CHAIN LNK FENCE GATE - 60' HT (NEW FENCE ITEM NO. 1)	1.000	EA		
8064383	10' CHAIN LINK FENCE GATE - 60" HT (NEW FENCE ITEM NO. 1)	2.000	EA		
8064385	10' CHAIN LINK FENCE GATE - 72" HT	2.000	EA		
8068301	TEMPORARY BARRIER FENCE	1,917.000	LF		
8081000	MOVING ITEM NO. 1	1.000	LS		
8081000	MOVING ITEM NO. 2	1.000	LS		
8081000	MOVING ITEM NO. 3	1.000	LS		
8081000	MOVING ITEM NO. 4	1.000	LS		
8081000	MOVING ITEM NO. 5	1.000	LS		
8081000	MOVING ITEM NO. 6	1.000	LS		
8081000	MOVING ITEM NO. 7	1.000	LS		
8081000	MOVING ITEM NO. 8	1.000	LS		
8081000	MOVING ITEM NO. 9	1.000	LS		
8081000	MOVING ITEM NO. 10	1.000	LS		
8081000	MOVING ITEM NO. 11	1.000	LS		
8081000	MOVING ITEM NO. 12	1.000	LS		
8081000	MOVING ITEM NO. 13	1.000	LS		
8091010	RIGHT OF WAY MARKER(REBAR&CAP)	500.000	EA		
8091050	RIGHT OF WAY PLAT	1.000	LS		
8100100	PERMANENT COVER	15.507	ACRE		

**Widening SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - ROADWAY**

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
8100200	TEMPORARY COVER	11.630	ACRE		
8101105	COMPOST	4,170.000	CY		
8104005	FERTILIZER (NITROGEN)	1,550.700	LB		
8104010	FERTILIZER (PHOSPHORIC ACID)	1,550.700	LB		
8104015	FERTILIZER (POTASH)	1,550.700	LB		
8105005	AGRICULTURAL GRANULAR LIME (2000LB/AC)	31,014.000	LB		
8109050	SELECTIVE WATERING (27150GAL/AC)	135,750.000	GAL		
8109901	MOWING	54.275	ACRE		
8110003	LANDSCAPING ITEM NO. 1 (GREEN GIANT ARBORVITAE 3 GAL)	44.000	EA		
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	1.739	MSY		
8151110	TEMPORARY EROSION CONTROL BLANKET (ECB)	12.014	MSY		
8151202	HYDRAULIC EROSION CONTROL PRODUCT (HECP) TYPE 2	43.420	ACRE		
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) TYPE 3	10.855	ACRE		
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	1,170.000	LF		
8152006	INLET STRUCTURE FILTER- TYPE F (NON-WEIGHTED)	1,170.000	LF		
8152007	SEDIMENT TUBES FOR DITCH CHECKS	1,790.000	LF		
8153000	SILT FENCE	33,214.711	LF		
8153090	REPLACE/REPAIR SILT FENCE	3,321.471	LF		
8154010	CLEANING SILT BASINS	1,933.000	CY		
8154011	POROUS BAFFLE	555.000	LF		
8154012	FLOATING SKIMMER	2.000	EA		
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	8,303.678	LF		
8156200	CLEANING INLET STRUCTURE FILTERS	146.000	EA		
8156205	INLET STRUCTURE FILTER-TYPE D1	14.000	EA		
8156210	INLET STRUCTURE FILTER - TYPE B	131.000	EA		
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	8.000	TON		
8156490	STABILIZED CONSTRUCTION ENTRANCE	1,375.000	SY		
8159000	STORMWATER MANAGEMENT BASIN	2.000	EA		
Roadway Base Bid Subtotal					

**Widening of SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - WATER AND SEWER ITEMS**

All work performed by the Contractor as essential to the completion of the intent of the Contract Documents shall be paid for in accordance with the Bid Schedule. No direct payment will be made for work performed which is not shown as a separate Bid Item. All costs shall be included in the various pay items in the Bid Schedule or an amount shown as Total Bid Amount for the work shown on the proposed project plans.

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
I. GENERAL					
W1	MOBILIZATION	1.000	LS		
2. DEMOLITION					
W2	ABANDON EXISTING WATER LINE - 12" DIA.	12,495.000	LF		
W3	ABANDON EXISTING WATER LINE -8" DIA.	917.000	LF		
W3.1	ABANDON EXISTING WATERLINE - 6" DIA.	105.000	LF		
W4	ABANDON EXISTING WATERLINE - 2" DIA.	578.000	LF		
W5	ABANDON EXISTING SEWER LINE -8" DIA	1,929.000	LF		
W6	ABANDON EXISTING SEWER MANHOLE	5.000	EA		
W7	REMOVE/DEMO 12" DI WATERMAIN	0.000	LF		
W8	REMOVE/DEMO 8" PVC SEWER	330.000	LF		
3. EXCAVATION AND PAVEMENT					
W9	ROCK EXCAVATION - TRENCH	1,122.000	CY		
W10	FULL DEPTH ASPH. PAV. PATCHING 12" UNIF.	1,115.000	SY		
4. WATER					
W11	12" DIP-CL 350 RJ	8,244.000	LF		
W12	12" DIP-CL 350	4,571.000	LF		
W13	POLYWRAP FOR 12" DIP	3,244.000	LF		
W14	8" DIP-CL 350 RJ	1,297.000	LF		
W15	6" DIP-CL 350 RJ	146.000	LF		
W16	POLYWRAP FOR 8" DIP	65.000	LF		
W17	FIRE HYDRANT ASSEMBLY	29.000	EA		
W18	POLYWRAP FOR 6" DIP HYDRANT LEADS	85.000	LF		
W19	SHORT SIDE SERVICE -2"	1.000	EA		
W19.1	SHORT SIDE SERVICE -1"	1.000	EA		
W19.2	SHORT SIDE SERVICE - 3/4"	16.000	EA		
W20	LONG SIDE SERVICE -2"	4.000	EA		
W20.1	LONG SIDE SERVICE -3/4"	13.000	EA		

**Widening of SC Route 72 from 0.2 Miles West of S-46-163 (East Rambo Rd.) to SC Rte. 901 (Mt. Holly Rd.) #11149-014
 BID SCHEDULE - WATER AND SEWER ITEMS**

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
W21	24" STEEL CASING	188.000	LF		
W22	18" STEEL CASING	527.000	LF		
W22.1	12" STEEL CASING	65.000	LF		
W22.2	12" GATE VALVE, RJ	24.000	EA		
W22.3	8" GATE VALVE, RJ	11.000	EA		
W22.4	6" GATE VALVE, RJ	2.000	EA		
W22.5	12" X12" TAPPING SLEEVE AND VALVE	1.000	EA		
5. SEWER					
W23	8" PVC-SDR26 SANITARY SEWER	1,914.000	LF		
W24	8" DIP SANITARY SEWER-401 LINED CL 350	401.000	LF		
W25	6" SERVICE LATERAL	1.000	EA		
W26	4' DIA. MANHOLE	10.000	EA		
W27	4' DOGHOUSE MANHOLE	2.000	EA		
Water & Sewer Base Bid Subtotal					

SPECIAL CONDITIONS

1. All work performed by the Contractor must be in accordance with the South Carolina Department of Transportation (SCDOT) 2007 Standard Specification for Highway Construction, SCDOT Supplemental Technical Specifications, and SCDOT Special Provisions, unless directed otherwise in the plans or by the Engineer. A full version of the 2007 Edition SCDOT Standard Specifications For Highway Construction may be viewed or downloaded on SCDOT's website at www.scdot.org.
2. All work performed by the Contractor shall be constructed using the SCDOT'S Current Standard Drawings with all updates effective at the time of the letting, unless directed otherwise in the plans or by the Engineer. The Standard Drawings are available for download on SCDOT's website www.scdot.org. All drawings that are updated are labeled with their effective letting date in red.
3. Remove and dispose of the structure at 2555 Saluda Ave, Rock Hill, SC in accordance with Section 202 of the SCDOT Specifications. The contractor is to obtain necessary city and/or county demolition permits. Payment for the removal and satisfactory disposal of the structure, including necessary permits, shall be included in the lump sum bid item of "Removal and Disposal of Structures and Obstructions."
4. Remove existing fence and construct new fence and driveway gates per New Fence Item No. 1 on tract 65. Existing fencing shall not be reused. The new fence or a temporary fence must be installed at the new location prior to the old fence being removed and work commencing on the property. The new fence will be placed at the top of the cut line and tie to existing fencing at the sides of the property. The fence will also allow for two driveway entrances and the walkway in the middle of the yard with gates. The new fence will be a new 5-foot galvanized steel, 9-gauge chain link fence. If a temporary fence is to be used, it will be constructed as a 5-foot galvanized steel, 9-gauge chain link fence and placed as required. Payment for a temporary fence, if used, shall be included in the bid items for New Fence Item No. 1, no separate payment will be made.
5. **There are no known underground storage tanks within the right-of-way.**
6. The Contractor shall be liable and responsible for payment of fines assessed by any regulatory agency due to non-compliance with applicable permit requirements and/or regulations by the Contractor. In the event that Owner is fined due to non-compliance with permit requirements, the Owner will charge the Contractor the cost of the fine by deducting an equal amount from the next progress pay estimate.
7. In the Bid Proposal Form and Schedule, Division I-Section 3, contract items given a unique seven (7) digit Item Number shall be constructed in accordance with SCDOT Standard Specifications. The first three (3) digits correspond to sections of the SCDOT Standard Specifications. The remaining four (4) digits are for individual identification of each contract item. Contract items that are identified with Item Numbers beginning with W, S, F, and SP shall be constructed in accordance with specifications contained within this document.
8. Construction conditions requiring minor vertical adjustments (0-2 ft.) to existing water line valve boxes, sanitary sewer manholes, and other minor appurtenances shall be the responsibility of the Contractor. The costs for the adjustments shall be the Contractor's responsibility and shall be included in Bid Item, Mobilization. Other utilities requiring relocation or adjustment for construction activities will be the responsibility of the utility owner.
9. Reconstruction of driveways and other special provisions on properties, included in the right-of-way acquisition, shall be coordinated with the Engineer. Contractor shall notify Engineer prior to construction of driveways.



SUMMARY OF ESTIMATED QUANTITIES

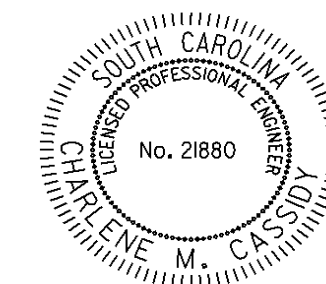
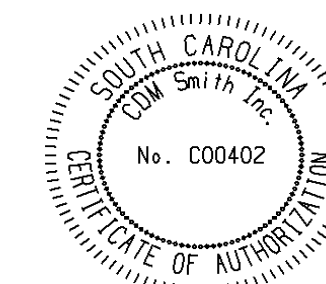
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P029515	SC 72	2

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
1031000	MOBILIZATION	1.000	LS
1031100	MOBILIZATION - SUBCONTRACTOR	1.000	LS
1032010	BONDS AND INSURANCE	1.000	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1.000	LS
1052001	UTILITY STAKING	1.000	LS
1071000	TRAFFIC CONTROL	1.000	LS
1071504	LAW ENFORCEMENT OFFICER	240.000	HR
1080300	CPM PROGRESS SCHEDULE	1.000	LS
1090200	AS-BUILT CONSTRUCTION PLANS	1.000	LS
2012000	CLEARING & GRUBBING WITHIN ROADWAY	1.000	LS
2021000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.000	LS
2021005	REMOVAL & DISPOSAL OF EXISTING CATCH BASIN	3.000	EA
2021010	REMOVAL & DISPOSAL OF EXISTING DROP INLET	4.000	EA
2021015	REMOVAL & DISPOSAL OF EXISTING MANHOLE	1.000	EA
2022000	REMOVAL & DISPOSAL ITEM NO. 1	1.000	LS
2022000	REMOVAL & DISPOSAL ITEM NO. 2	1.000	LS
2022000	REMOVAL & DISPOSAL ITEM NO. 3	1.000	LS
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	5795.000	SY
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	11623.000	SY
2031000	UNCLASSIFIED EXCAVATION	18065.000	CY
2032000	BORROW EXCAVATION	33236.000	CY
2033000	ROCK EXCAVATION	1000.000	CY
2081001	FINE GRADING	33610.000	SY
3069900	MAINTENANCE STONE	3000.000	TON
3100310	HOT MIX ASPHALT BASE COURSE TYPE A	13421.000	TON
4011004	LIQUID ASPHALT BINDER PG64-22	2292.000	TON
4012060	FULL DEPTH ASPH. PAV. PATCHING 6" UNIF.	2100.000	SY
4012120	FULL DEPTH ASPH. PAV. PATCHING 12" UNIF	1400.000	SY
4013200	MILLING EXISTING ASPHALT PAVEMENT 2.0"	58300.000	SY
4013150	MILLING EXISTING ASPHALT PAVEMENT 1.5"	2464.000	SY
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	2000.000	SY
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	20864.000	TON
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	9826.000	TON
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	293.000	TON
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	1076.000	SF
609105A	PAVEMENT MARKINGS(TEMP-PAINT) 4" WHITE BROKEN LINES	7367.000	LF
609105B	PAVEMENT MARKINGS(TEMP-PAINT) 4" YELLOW BROKEN LINES	8440.000	LF
609115A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-4" WHITE SOLID LINES	164898.000	LF
609115B	PAVEMENT MARKINGS(TEMPORARY-PAINT)-4" YELLOW SOLID LINES	172256.000	LF
609125A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-8" WHITE SOLID LINES	4466.000	LF
609135A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-24" WHITE SOLID LINES	971.000	LF
609160A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-WHITE SINGLE ARROW	74.000	EA
609180A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-WHITE WORD 'ONLY'	88.000	EA
609165A	PAVEMENT MARKINGS(TEMP.-PAINT)-WHITE COMBINATION ARROWS	12.000	EA
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	565.000	EA
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	220.000	EA
6271005	4" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	4769.000	LF
6271010	4" WHITE SOLID LINES (PVT. EDGE LINES) THERMO- 90 MIL.	7825.000	LF
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	3170.000	LF
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	4430.000	LF
6271030	WHITE SINGLE ARROWS (LT, STRGHT, RT) THERMO.-125 MIL.	54.000	EA
6271035	WHITE WORD MESSAGE "ONLY"-THERMOPLASTIC - 125 MIL.	36.000	EA
6271040	WHITE COMBINATION ARROWS(STR&RT OR STR<)THERMO-125MIL	2.000	EA
6271064	4" YELLOW BROKEN LINES(GAPS EXC)THERMOPLASTIC - 90 MIL.	2465.000	LF
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	38069.000	LF
6280112	6"YELLOW SOLID LINES ON CURB/MED.-HIGH BUILD PAINT-25 MIL.	4892.000	LF
6300005	PERMANENT CLEAR PAVEMENT MARKERS- MONO-DIR.- 4"X4"	565.000	EA
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	258.000	EA
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	1028.500	SF
6510106	FLAT SHEET, TYPE III, SIZE DETERMINED BY MSG	149.750	SF
6510111	FLAT SHEET,TYPE-VIII,IX, OR XI, FIXED SIZE & MSG.	15.000	SF
6513015	MOUNTING ASSEMBLY FOR F.S. SIGN ERECTED ON SPAN WIRE	3.000	EA
6531205	U-SECTION POST FOR SIGN SUPPORTS - 2P	100.000	LF
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	1240.000	LF
675027C	FURNISH & INSTALL 3.0" SCHEDULE 80 PVC CONDUIT	60.000	LF
6750275	FURNISH & INSTALL 1.0" SCHEDULE 80 PVC CONDUIT	360.000	LF
6750278	FURNISH & INSTALL 2.0" SCHEDULE 80 PVC CONDUIT	1765.000	LF
6760060	FURNISH & INSTALL 2" SCHEDULE 80 HDPE (TRENCHLESS)	300.000	LF
6770388	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - (BLACK)	350.000	LF
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - (GRAY)	3230.000	LF
6770393	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (BLACK)	1575.000	LF
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	845.000	LF
2770395	FURNISH & INTALL NO. 14 COPPER WIRE, 12 CONDUCTOR (BLACK)	550.000	LF
6770413	FURNISH & INSTL NO. 14 COPPER WIRE,1-CONDUCTOR FOR LOOP WIRE	2945.000	LF
6780495	SAWCUT FOR LOOP DETECTOR	1025.000	LF

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
6780495	SAWCUT FOR LOOP DETECTOR	1025.000	LF
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	14.000	EA
680052C	F&I-17"X30"X24"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	2.000	EA
6825052	F&I 13"X32' STEEL STRAIN POLE-POWDER COATED AND FOUNDATION	8.000	EA
6825090	FURNISH & INSTALL 1/4" GALVANIZED STEEL CABLE	830.000	LF
6825092	FURNISH & INSTALL 3/8" GALVANIZED STEEL CABLE	830.000	LF
6825480	FURNISH & INSTALL 4' BREAK-AWAY ALUMINUM PEDESTAL POLE AND BASE	14.000	EA
6825484	FURNISH & INSTALL 10' BREAK-AWAY ALUM PEDESTAL POLE AND BASE	4.000	EA
6845511	F&I - CONTR 332/336 CABINET ASSEMBLY - BASE MOUNTED	2.000	EA
6865701	F&I - SOLAR POWERED FLASHER ASSEMBLY -DUAL BEACON	2.000	EA
6865720	F&I - 12" 4 SECTION SIGNAL HEAD	2.000	EA
6865723	F&I - 12" 3 SECTION SIGNAL HEAD	15.000	EA
6865782	F&I - 1-WAY-1SECT.HAND/MAN COUNTDOWN PEDESTRIAN SIGNAL HEAD	12.000	EA
6865797	F&I-PED PUSH BUT.SOLID STATE W/ LIGHT&TONE ASSEM 9"X15"&SIGN (R-10-3E)	12.000	EA
6887951	FURNISH & INSTALL CONCRETE CABINET FOUNDATION	2.000	EA
6888192	POWDERCOATING OPTION FOR 4' ALUMINUM PEDESTAL POLE	14.000	EA
6888194	POWDERCOATING OPTION FOR 10' ALUMINUM PEDESTAL POLE	4.000	EA
7143610	15" SMOOTH WALL PIPE	196.000	LF
7143618	18" SMOOTH WALL PIPE	12560.000	LF
7143624	24" SMOOTH WALL PIPE	3660.000	LF
7143630	30"SMOOTH WALL PIPE	280.000	LF
7141116	36" SMOOTH WALL PIPE	3120.000	LF
7143636	29"X 45" HORIZONTAL ELLIPTICAL(HE) RC PIPE CUL.-CLASS HE-III	32.000	LF
7143806	24"X15" SMOOTH WALL PIPE CUL. TEE	3.000	EA
7149998	VIDEO PIPE INSPECTION	19168.000	LF
7191005	CATCH BASIN -TYPE 1 CB - TYPE 1	5.000	EA
7191205	CATCH BASIN -TYPE 9	2.000	EA
7191250	CATCH BASIN -TYPE 9 MH	2.000	EA
7191605	CATCH BASIN -TYPE 16	102.000	EA
7191650	CATCH BASIN -TYPE 18	10.000	EA
7192020	DROP INLET (24" X 36")	10.000	EA
7192105	MANHOLE	23.000	EA
7193005	PRECAST CONCRETE RISER - 48" DIAMETER	8.000	LF
7199100	BEVELING OF PIPE END	4.000	EA
7199200	4' SLOPE FLUME (6" CURB STYLE WITH CUTOFFS)	19.000	LF
7202000	HANDWORK THROAT CURB TO FLUME OR INLET	1.000	EA
7203130	CONCRETE CURB AND GUTTER(1'-6") OGEE	190.000	LF
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	25420.000	LF
7204100	CONCRETE SIDEWALK(4" UNIFORM)	17050.000	SY
7204900	DETECTABLE WARNING MATERIAL	580.000	SF
7205000	CONCRETE DRIVEWAY(6" UNIFORM)	4561.000	SY
7206000	CONCRETE MEDIAN	1245.000	SY
7209000	PEDESTRIAN RAMP CONSTRUCTION	1125.000	SY
8041020	RIP-RAP (CLASS B)	939.000	TON
8048210	GEOTEX/EROS.CONT(CLASS2)TYPE C	1093.000	SY
8051151	MT3 LEADING END TREATMENT TL3	3.000	EA
8051710	MB TRAILING END TREATMENT	3.000	EA
8052200	MGS2C GUARDRAIL BEHIND CURB	387.500	LF
8063200	60" CHAIN LINK FENCE (NEW FENCE ITEM NO. 1)	570.000	LF
8063400	72" SECURITY CHAIN LINK FENCE	1917.000	LF
8064200	10' CHAIN LINK FENCE GATE - 60" HT (NEW FENCE ITEM NO. 1)	1.000	EA
8064383	10' CHAIN LINK FENCE GATE - 72" HT	2.000	EA
8064385	10' CHAIN LINK FENCE GATE - 60" HT (NEW FENCE ITEM NO. 1)	2.000	EA
8068301	TEMPORARY BARRIER FENCE	1917.000	LF
8081000	MOVING ITEM NO. 1	1.000	LS
8081000	MOVING ITEM NO. 2	1.000	LS
8081000	MOVING ITEM NO. 3	1.000	LS
8081000	MOVING ITEM NO. 4	1.000	LS
8081000	MOVING ITEM NO. 5	1.000	LS
8081000	MOVING ITEM NO. 6	1.000	LS
8081000	MOVING ITEM NO. 7	1.000	LS
8081000	MOVING ITEM NO. 8	1.000	LS
8081000	MOVING ITEM NO. 9	1.000	LS
8081000	MOVING ITEM NO. 10	1.000	LS
8081000	MOVING ITEM NO. 11	1.000	LS
8081000	MOVING ITEM NO. 12	1.000	LS
8081000	MOVING ITEM NO. 13	1.000	LS
8091010	RIGHT OF WAY MARKER(REBAR&CAP)	500.000	EA
8091050	RIGHT OF WAY PLAT	1.000	LS
8100100	PERMANENT COVER	15.507	ACRE
8100200	TEMPORARY COVER	11.630	ACRE
8101105	COMPOST	4170.000	CY
8104005	FERTILIZER (NITROGEN)	1550.700	LB
8104010	FERTILIZER (PHOSPHORIC ACID)	1550.700	LB
8104015	FERTILIZER (POTASH)	1550.700	LB

12/8/2023
 c:\pw_pjl\cassidy\cm0270614\726_SFI_05_General_Construction_Notes_22x36.xls\GCN with RipRap

REVISIONS
 11/16/2023 ADDN 2 - CORRECT PAY UNIT TO "LF" ITEM NOS. 6750275 AND 6750278, INCREASED QTY FOR PAYITEM 3069900 MAINTENANCE STONE TO 3000 TON.
 12/7/2023 ADDN 5 - ADD PAYITEM 1090200, DELETE PAYITEM 2011000 & 2015010, CORRECT QTY. PAYITEM 2081001, CORRECT UNIT FOR ITEM 7204900



GENERAL CONSTRUCTION NOTES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P029515	SC 72	5

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT	USE DESCRIPTION
1031000	MOBILIZATION	1.000	LS	WHERE DIRECTED BY ENGINEER
1031100	MOBILIZATION - SUBCONTRACTOR	1.000	LS	WHERE DIRECTED BY ENGINEER
1032010	BONDS AND INSURANCE	1.000	LS	WHERE DIRECTED BY ENGINEER
1050800	CONSTRUCTION STAKES, LINES & GRADES	1.000	LS	WHERE DIRECTED BY ENGINEER
1052001	UTILITY STAKING	1.000	LS	WHERE DIRECTED BY ENGINEER
1071504	LAW ENFORCEMENT OFFICER	240.000	HR	WHERE DIRECTED BY ENGINEER
1080300	CPM PROGRESS SCHEDULE	1.000	LS	WHERE DIRECTED BY ENGINEER
1092000	AS-BUILT CONSTRUCTION PLANS	1.000	LS	WHERE DIRECTED BY ENGINEER
2012000	CLEARING & GRUBBING WITHIN ROADWAY	1.000	LS	WHERE DIRECTED BY ENGINEER
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	5725.000	SY	WHERE DIRECTED BY ENGINEER
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	11623.000	SY	WHERE DIRECTED BY ENGINEER
2031000	UNCLASSIFIED EXCAVATION	4982.000	CY	WHERE DIRECTED BY ENGINEER
2032000	ROCK EXCAVATION	1000.000	CY	WHERE DIRECTED BY ENGINEER
2033000	BORROW EXCAVATION	1000.000	CY	WHERE DIRECTED BY ENGINEER
2081001	FINE GRADING	33610.000	SY	WHERE DIRECTED BY ENGINEER
3069900	MAINTENANCE STONE	3000.000	TON	FOR DRIVEWAY MAINTENANCE & AS DIRECTED BY THE ENGINEER
3100310	HOT MIX ASPHALT BASE COURSE TYPE A	640.000	TON	FOR OVERRUNS
4011004	LIQUID ASPHALT BINDER PG64-22	2292.000	TON	WHERE DIRECTED BY ENGINEER
4012060	FULL DEPTH ASPH. PAV. PATCHING 6" UNIF.	2100.000	SY	WHERE DIRECTED BY ENGINEER
4012120	FULL DEPTH ASPH. PAV. PATCHING 12" UNIF	1400.000	SY	WHERE DIRECTED BY ENGINEER
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	2000.000	SY	FOR BUILDUP AND OVERRUNS
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	6282.000	TON	FOR BUILDUP AND OVERRUNS
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	480.000	TON	FOR OVERRUNS AND DRIVES
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	293.000	TON	FOR BUILDUP
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	1076.000	SF	FOR TRAFFIC CONTROL
609105A	PAVEMENT MARKINGS(TEMP-PAINT) 4" WHITE BROKEN LINES	7367.000	LF	FOR TRAFFIC CONTROL
609105B	PAVEMENT MARKINGS(TEMP-PAINT) 4" YELLOW BROKEN LINES	8440.000	LF	FOR TRAFFIC CONTROL
609115A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-4" WHITE SOLID LINES	164898.000	LF	FOR TRAFFIC CONTROL
609115B	PAVEMENT MARKINGS(TEMPORARY-PAINT)-4" YELLOW SOLID LINES	172256.000	LF	FOR TRAFFIC CONTROL
609125A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-8" WHITE SOLID LINES	4466.000	LF	FOR TRAFFIC CONTROL
609135A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-24" WHITE SOLID LINES	971.000	LF	FOR TRAFFIC CONTROL
609160A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-WHITE SINGLE ARROW	74.000	EA	FOR TRAFFIC CONTROL
609165A	PAVEMENT MARKINGS(TEMP.-PAINT)-WHITE COMBINATION ARROWS	12.000	EA	FOR TRAFFIC CONTROL
609180A	PAVEMENT MARKINGS(TEMPORARY-PAINT)-WHITE WORD 'ONLY	88.000	EA	FOR TRAFFIC CONTROL
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR. - 4"x4"	565.000	EA	FOR TRAFFIC CONTROL
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR. - 4"x4"	220.000	EA	FOR TRAFFIC CONTROL
6760060	FURNISH & INSTALL SCHEDULE 80 HDPE (TRENCHLESS)	360.000	LF	WHERE DIRECTED BY THE ENGINEER WHEN NEEDED FOR TRAFFIC SIGNAL INTSTALLATION
6881910	INSTALL 10' BREAK-AWAY PEDESTRIAN PEDESTAL POLE AND BASE	4.000	EA	WHERE DIRECTED BY THE ENGINEER WHEN NEEDED FOR TRAFFIC SIGNAL INSTALLATION
6888194	POWDERCOATING OPTION FOR 10' ALUMINUM PEDESTAL POLE	4.000	EA	WHERE DIRECTED BY THE ENGINEER WHEN NEEDED FOR TRAFFIC SIGNAL INSTALLATION
7143615	15" SMOOTH WALL PIPE	16.000	LF	WHERE DIRECTED BY ENGINEER
7143618	18" SMOOTH WALL PIPE	120.000	LF	WHERE DIRECTED BY ENGINEER
7143624	24" SMOOTH WALL PIPE	36.000	LF	WHERE DIRECTED BY ENGINEER
7143630	30" SMOOTH WALL PIPE	16.000	LF	WHERE DIRECTED BY ENGINEER
7143636	36" SMOOTH WALL PIPE	24.000	LF	WHERE DIRECTED BY ENGINEER
7149998	VIDEO PIPE INSPECTION	19168.000	LF	TO MEET SPECIFICATIONS FOR QUALITY ASSURANCE
7191605	CATCH BASIN -TYPE 16	1.000	EA	WHERE DIRECTED BY ENGINEER
7193005	PRECAST CONCRETE RISER - 48" DIAMETER	8.000	LF	FOR SEDIMENT BASINS
7199100	BEVELING OF PIPE END	4.000	EA	FOR PIPE ENDS WITHIN THE CLEARZONE
7209000	PEDESTRIAN RAMP CONSTRUCTION	25.000	SY	WHERE DIRECTED BY ENGINEER
8041020	RIP-RAP (CLASS B)	314.000	TON	FOR PIPE ENDS
8048210	GEOTEX/EROS.CONT(CLASS2)TYPE C	438.000	SY	FOR PIPE ENDS
8063400	72" SECURITY CHAIN LINK FENCE	1917.000	LF	FOR PERMANENT SEDIMENT BASIN PROTECTION
8064385	10' CHAIN LINK FENCE GATE - 72" HT	2.000	EA	FOR PERMANENT SEDIMENT BASIN PROTECTION
8068301	TEMPORARY BARRIER FENCE	1917.000	LF	FOR SEDIMENT BASING PROTECTION DURING CONSTRUCTION
8091010	RIGHT OF WAY MARKER(REBAR&CAP)	500.000	EA	WHERE DIRECTED BY ENGINEER
8091050	RIGHT OF WAY PLAT	1.000	LS	WHERE DIRECTED BY ENGINEER
8100100	PERMANENT COVER	15.507	ACRE	FOR EROSION CONTROL
8100200	TEMPORARY COVER	11.630	ACRE	FOR EROSION CONTROL
8101105	COMPOST	4170.000	CY	FOR EROSION CONTROL
8104005	FERTILIZER (NITROGEN)	1550.700	LB	FOR EROSION CONTROL
8104010	FERTILIZER (PHOSPHORIC ACID)	1550.700	LB	FOR EROSION CONTROL
8104015	FERTILIZER (POTASH)	1550.700	LB	FOR EROSION CONTROL
8105005	AGRICULTURAL GRANULAR LIME (2000LB/AC)	31014.000	LB	FOR EROSION CONTROL
8109050	SELECTIVE WATERING (27150GAL/AC)	135750.000	GAL	FOR EROSION CONTROL
8109901	MOWING	54.275	ACRE	FOR EROSION CONTROL
8151202	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 2	43.420	ACRE	FOR EROSION CONTROL
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	10.855	ACRE	FOR EROSION CONTROL
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	1170.000	LF	FOR EROSION CONTROL
8152006	INLET STRUCTURE FILTER- TYPE F (NON-WEIGHTED)	1170.000	LF	FOR EROSION CONTROL
8153000	SILT FENCE	33214.711	LF	FOR EROSION CONTROL
8153090	REPLACE/REPAIR SILT FENCE	3321.471	LF	FOR EROSION CONTROL
8154010	CLEANING SILT BASINS	1933.000	CY	FOR EROSION CONTROL
8154011	POROUS BAFFLE	555.000	LF	FOR EROSION CONTROL
8154012	FLOATING SKIMMER	2.000	EA	FOR EROSION CONTROL
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	8303.678	LF	FOR EROSION CONTROL
8156200	CLEANING INLET STRUCTURE FILTERS	146.000	EA	FOR EROSION CONTROL
8156205	INLET STRUCTURE FILTER-TYPE D1	14.000	EA	FOR EROSION CONTROL
8156210	INLET STRUCTURE FILTER - TYPE B	131.000	EA	FOR EROSION CONTROL
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	8.000	TON	FOR EROSION CONTROL
8156490	STABILIZED CONSTRUCTION ENTRANCE	1375.000	SY	WHERE DIRECTED BY ENGINEER

PROJECT CONTACTS		
	NAME	TELEPHONE
YORK COUNTY PROGRAM MANAGER	PATRICK HAMILTON	803-818-5763

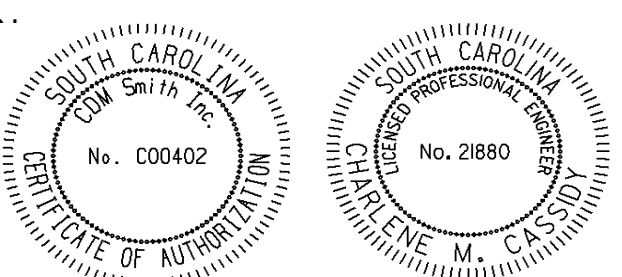
SCDOT GENERAL CONSTRUCTION NOTES:
 THE DEPUTY SECRETARY FOR ENGINEERING MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF THE PROJECT OR CHANGES IN ALIGNMENT. THE DISTRICT ENGINEERING ADMINISTRATOR IS PERMITTED UNDER THE DIRECTION OF THE DEPUTY SECRETARY FOR ENGINEERING TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE DEPARTMENT. FORWARD INFORMATION ON ANY PROPOSED CHANGES IN ALIGNMENT TO THE COLUMBIA OFFICE AS SOON AS POSSIBLE.

SEE INDIVIDUAL CURVES ON REFERENCE DATA SHEET FOR SUPERELEVATION RATE AND DESIGN SPEED, AS APPLICABLE.

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

PIPE INSIDE DIAMETER (IN)	REQ'D RIPRAP	2:1 SLOPE		3:1 SLOPE		4:1 SLOPE		6:1 SLOPE	
		RIPRAP [TON]	GEOTEXTILE [SY]	RIPRAP [TON]	GEOTEXTILE [SY]	RIPRAP [TON]	GEOTEXTILE [SY]	RIPRAP [TON]	GEOTEXTILE [SY]
12	B	6	7	8	10	10	12	15	18
15	B	6	8	9	11	11	14	16	20
18	B	7	9	10	12	12	15	18	22
24	B	8	10	11	15	15	19	22	27
30	B	10	13	14	18	18	23	26	34
36	B	13	17	18	24	23	31	34	45
42	B	16	21	23	30	29	39	43	57
48	B	20	26	28	37	36	48	53	70
54	B	24	32	34	45	44	59	64	86
60	B	29	39	40	54	53	71	77	104
66	B	34	48	48	64	62	84	91	124
72	B	40	53	56	75	73	98	107	145
78	B	46	62	64	87	84	114	123	167
84	B	52	71	74	100	96	130	141	192
90	C	102	80	144	113	188	148	277	218
96	C	115	91	162	128	211	167	311	245
108	C	143	113	201	159	262	207	387	306
120	C	175	138	247	195	322	254	474	375

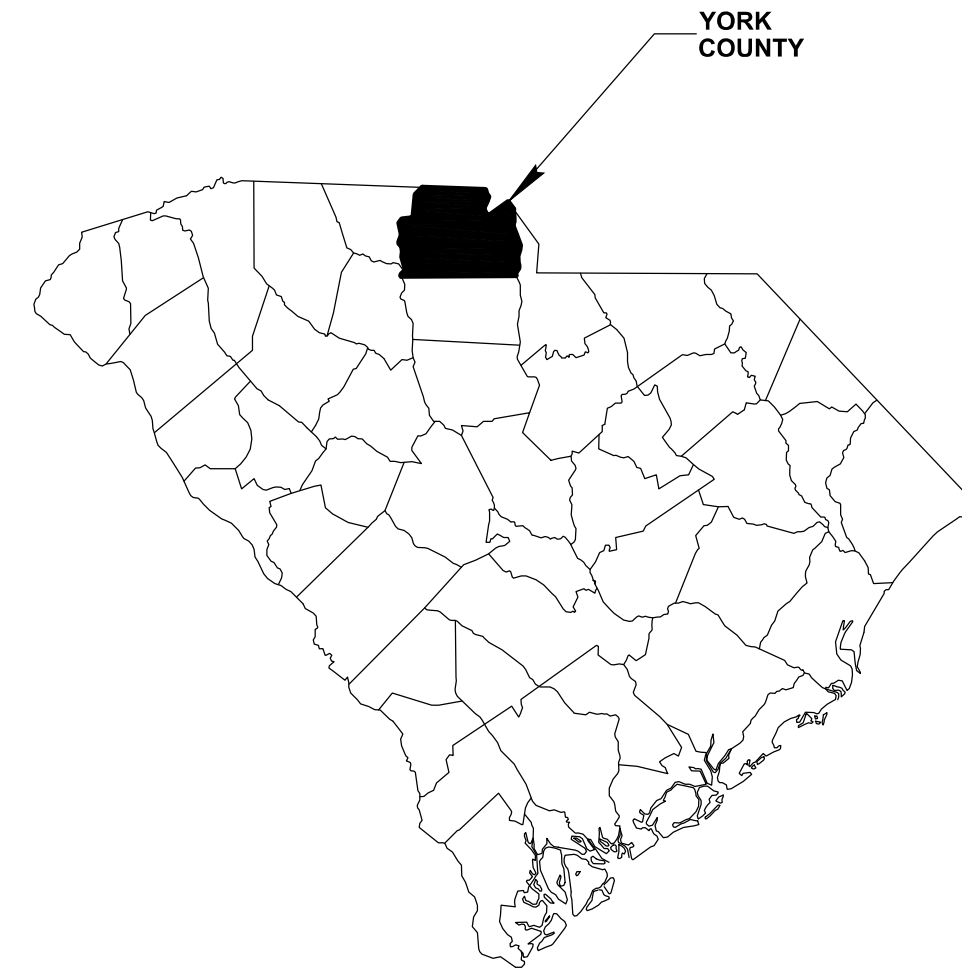
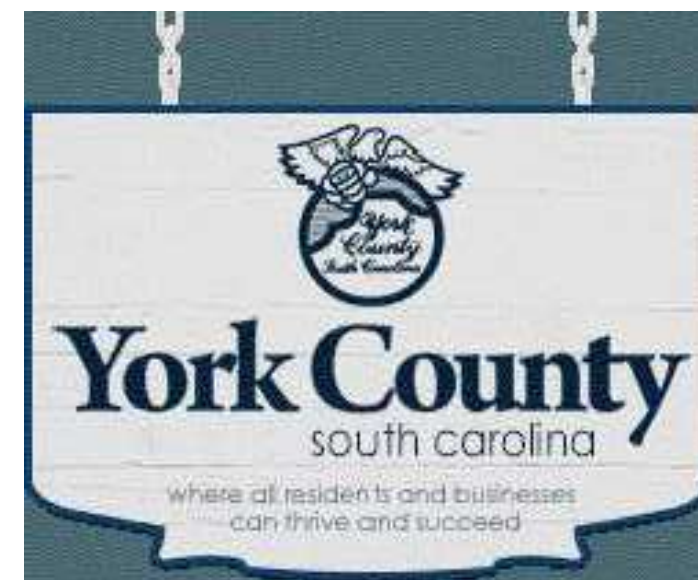
REVISIONS
 11/16/2016 ADDN. 2 REVISED QTY FOR ITEM 3069900 MAINTENANCE STONE TO 3000 TON
 12/7/2023 ADDN 5 DELETE PAYITEMS 2011000 & 2015010, ADD PAYITEM 2012000,
 CORRECT QTY FOR ITEM 2081001, REVISE NOTE ITEM 2033000 & 3069900



12/8/2023 c:\pw_p11\casid\cm\0270614\726_SH_05_General_Construction_Notes_22x36.xlsx\GCN with RipRap

YORK COUNTY TRANSPORTATION SC-72 WIDENING FROM RAMBO RD WATER RELOCATIONS

JULY 2022



LOCATION MAP
NOT TO SCALE

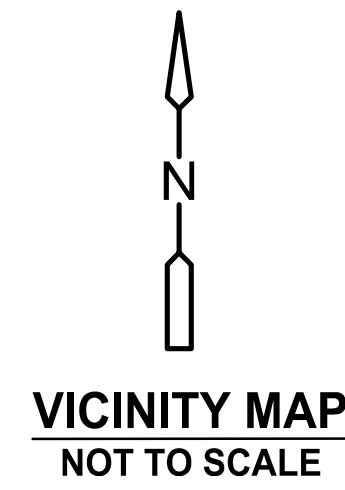


IMAGE OBTAINED FROM GOOGLE EARTH PRO NOVEMBER 2019

BID ITEMS			
ITEM #	DESCRIPTION	QTY	UNIT
1. GENERAL			
W1	MOBILIZATION	1,000	LS
2. DEMOLITION			
W2	ABANDON EXISTING WATER LINE - 12" DIA.	12,495.000	LF
W3	ABANDON EXISTING WATER LINE - 8" DIA.	917.000	LF
W3.1	ABANDON EXISTING WATERLINE - 6" DIA.	105.000	LF
W4	ABANDON EXISTING WATERLINE - 2" DIA.	578.000	LF
W5	ABANDON EXISTING SEWER LINE - 8" DIA.	1,929.000	LF
W6	ABANDON EXISTING SEWER MANHOLE	5.000	EA
W7	REMOVE/DEMO 12" DI WATERMAIN	0.000	LF
W8	REMOVE/DEMO 8" PVC SEWER	330.000	LF
3. EXCAVATION AND PAVEMENT			
W9	ROCK EXCAVATION - TRENCH	1,122.000	CY
W10	FULL DEPTH ASPHL PAV. PATCHING 12" UNIF.	1,115.000	SY
4. WATER			
W11	12" DIP-CL 350 RJ	3,244.000	LF
W12	12" DIP-CL 350	4,571.000	LF
W13	POLYWRAP FOR 12" DIP	3,244.000	LF
W14	8" DIP-CL 350 RJ	1,297.000	LF
W15	6" DIP-CL 350 RJ	146.000	LF
W16	POLYWRAP FOR 8" DIP	65.000	LF
W17	FIRE HYDRANT ASSEMBLY	29.000	EA
W18	POLYWRAP FOR 6" DIP HYDRANT LEADS	85.000	LF
W19	SHORT SIDE SERVICE - 2"	1.000	EA
W19.1	SHORT SIDE SERVICE - 1"	1.000	EA
W19.2	SHORT SIDE SERVICE - 3/4"	16.000	EA
W20	LONG SIDE SERVICE - 2"	4.000	EA
W20.1	LONG SIDE SERVICE - 3/4"	13.000	EA
W21	24" STEEL CASING	188.000	LF
W22	18" STEEL CASING	527.000	LF
W22.1	12" STEEL CASING	65.000	LF
W22.2	12" GATE VALVE, RJ	24.000	EA
W22.3	8" GATE VALVE, RJ	11.000	EA
W22.4	6" GATE VALVE, RJ	2.000	EA
W22.5	12" X12" TAPPING SLEEVE AND VALVE	1.000	EA
5. SEWER			
W23	8" PVC-SDR26 SANITARY SEWER	1,914.000	LF
W24	8" DIP SANITARY SEWER-401 LINED CL 350	401.000	LF
W25	6" SERVICE LATERAL	1.000	EA
W26	4" DIA. MANHOLE	10.000	EA
W27	4" DOGHOUSE MANHOLE	2.000	EA

CITY OF ROCK HILL CONTACT:
757 SOUTH ANDERSON ROAD
ROCK HILL, SC 29730
RICK CARTER
803-329-5500

UTILITY PROVIDERS:

WATER/SEWER/ELECTRIC

CITY OF ROCK HILL
757 SOUTH ANDERSON RD
ROCK HILL, SC 29730
803-329-5500
UTILITY.DISPATCH@CITYOFROCKHILL.COM
CONTACT: SCOTT TURNER (WATER/SEWER)
MARCELO MAURI (ELECTRIC)

YORK ELECTRIC COOPERATIVE, INC.
1385 ALEXANDER LOVE HIGHWAY
YORK, SC 29745
800-582-8810
CONTACT: TIM SCISM 803-984-2020

CABLE/INTERNET/TELEPHONE

COMPORIUM COMMUNICATIONS
PO BOX 470
ROCK HILL, SC 29730
CONTACT: PAUL LINDSEY 803-326-6006
STEVE DICKSON 803-326-6027

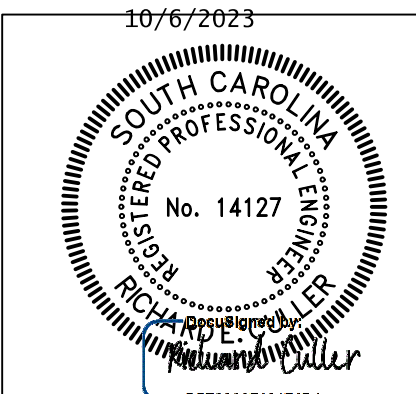
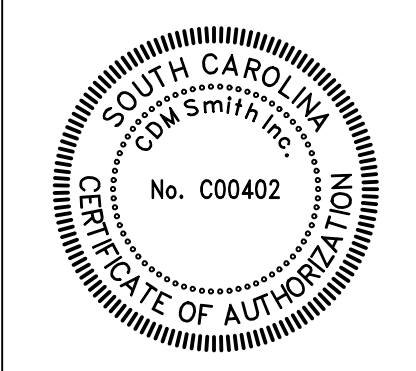
AT&T
CONTACT: RON DUKES 803-606-6700

NATURAL GAS

YORK COUNTY NATURAL GAS AUTHORITY
979 WEST MAIN STREET
ROCK HILL, SC 29730
CONTACT: AMANDA GALLAGHER 803-323-5363



1441 Main Street Suite 1000
Columbia, SC 29201
Tel: 803-758-4500
PROJECT NO. 120959-111726



NO.	DATE	REVISION
1.	11/28/2023	Addendum 3 - Added Bid Items List to Cover Sheets
2.	12/11/2023	Addendum 5 - Updated Bid Items

SC-72 WIDENING
WATER RELOCATIONS
COVER SHEET

ISSUED FOR BID

Project Manager:
Mark Lester, PE

Drawn By: Checked By:
KRS

DATE: JULY 2022

SCALE: 1"=20'

YORK COUNTY

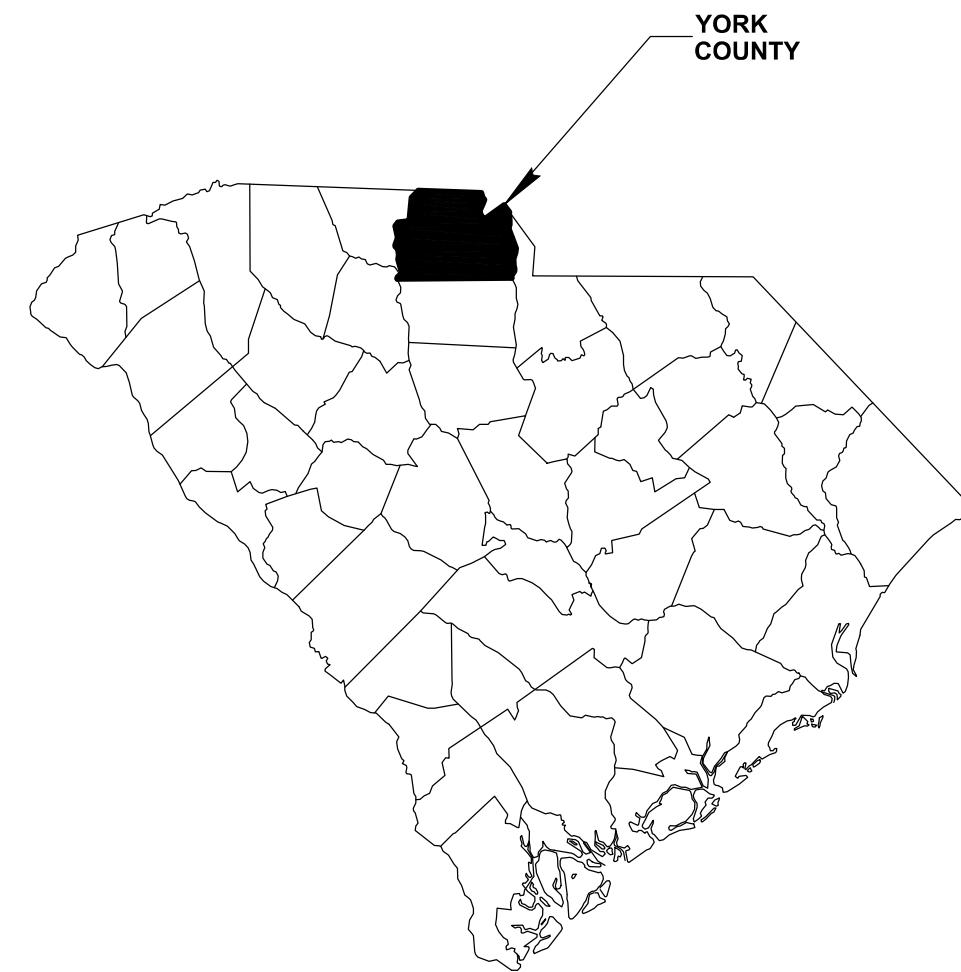
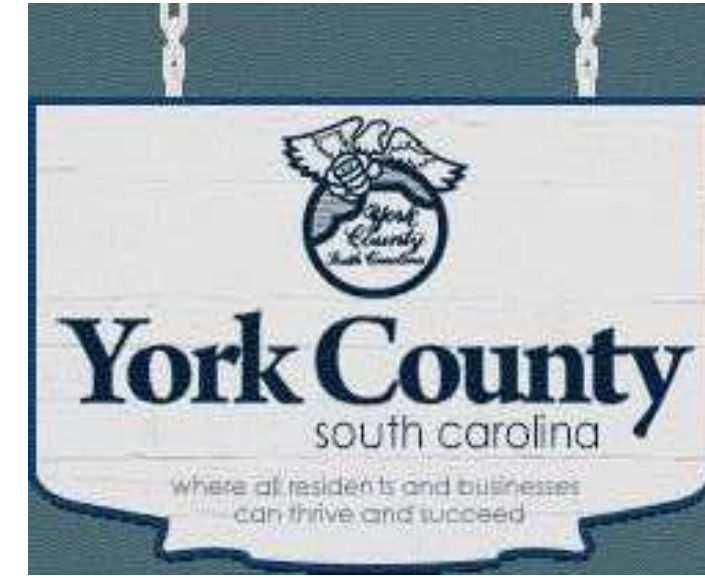
DRAWING No.
G-0

SC72 WIDENING
WATER RELOCATIONS

XREFs: [] Images: [CorH Logo, Cover Image, SC811 Logo, York Logo]
 Last saved by: KEQUJGHA, Time: 8/11/2021, 9:23:51 AM
 p:\york\cdmsmith-a202-pw\benlajr.com\PW_P1_11202501172604 Design Services NM_90%01 General10 CADD\COVERW.dwg

YORK COUNTY TRANSPORTATION SC-72 WIDENING FROM RAMBO RD SEWER RELOCATIONS

JULY 2022



LOCATION MAP
NOT TO SCALE

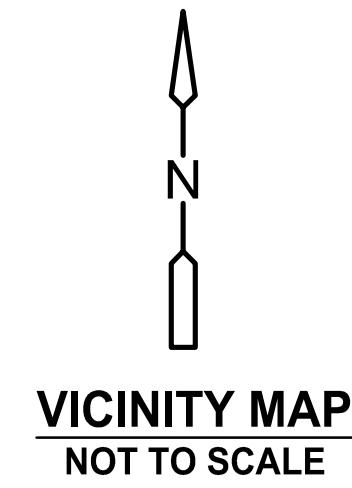


IMAGE OBTAINED FROM GOOGLE EARTH PRO NOVEMBER 2019

BID ITEMS			
ITEM #	DESCRIPTION	QTY	UNIT
1. GENERAL			
W1	MOBILIZATION	1.000	LS
2. DEMOLITION			
W2	ABANDON EXISTING WATER LINE - 12" DIA.	12,495.000	LF
W3	ABANDON EXISTING WATER LINE - 8" DIA.	937.000	LF
W3.1	ABANDON EXISTING WATERLINE - 6" DIA.	105.000	LF
W4	ABANDON EXISTING WATERLINE - 2" DIA.	578.000	LF
W5	ABANDON EXISTING SEWER LINE - 8" DIA.	1,929.000	LF
W6	ABANDON EXISTING SEWER MANHOLE	5.000	EA
W7	REMOVE/DEMO 12" DI WATERMAIN	0.000	LF
W8	REMOVE/DEMO 8" PVC SEWER	330.000	LF
3. EXCAVATION AND PAVEMENT			
W9	ROCK EXCAVATION - TRENCH	1,122.000	CY
W10	FULL DEPTH ASPH. PAV. PATCHING 12" UNIF.	1,115.000	SY
4. WATER			
W11	12" DIP-CL 350 RJ	8,244.000	LF
W12	12" DIP-CL 350	4,571.000	LF
W13	POLYWRAP FOR 12" DIP	3,244.000	LF
W14	8" DIP-CL 350 RJ	1,297.000	LF
W15	6" DIP-CL 350 RJ	146.000	LF
W16	POLYWRAP FOR 8" DIP	65.000	LF
W17	FIRE HYDRANT ASSEMBLY	29.000	EA
W18	POLYWRAP FOR 6" DIP HYDRANT LEADS	85.000	LF
W19	SHORT SIDE SERVICE - 2"	1.000	EA
W19.1	SHORT SIDE SERVICE - 1"	1.000	EA
W19.2	SHORT SIDE SERVICE - 3/4"	16.000	EA
W20	LONG SIDE SERVICE - 2"	4.000	EA
W20.1	LONG SIDE SERVICE - 3/4"	13.000	EA
W21	24" STEEL CASING	188.000	LF
W22	18" STEEL CASING	527.000	LF
W22.1	12" STEEL CASING	65.000	LF
W22.2	12" GATE VALVE, RJ	24.000	EA
W22.3	8" GATE VALVE, RJ	11.000	EA
W22.4	6" GATE VALVE, RJ	2.000	EA
W22.5	12" X12" TAPPING SLEEVE AND VALVE	1.000	EA
5. SEWER			
W23	8" PVC-SDR26 SANITARY SEWER	1,914.000	LF
W24	8" DIP SANITARY SEWER-401 LINED CL 350	401.000	LF
W25	6" SERVICE LATERAL	1.000	EA
W26	4" DIA. MANHOLE	10.000	EA
W27	4" DOGHOUSE MANHOLE	2.000	EA

CITY OF ROCK HILL CONTACT:
757 SOUTH ANDERSON ROAD
ROCK HILL, SC 29730
RICK CARTER
803-329-5500

UTILITY PROVIDERS:

WATER/SEWER/ELECTRIC

CITY OF ROCK HILL
757 SOUTH ANDERSON ROAD
ROCK HILL, SC 29730
803-329-5500
UTILITY.DISPATCH@CITYOFROCKHILL.COM
CONTACT: SCOTT TURNER (WATER/SEWER)
MARCELO MAURI (ELECTRIC)

YORK ELECTRIC COOPERATIVE, INC.
1385 ALEXANDER LOVE HIGHWAY
YORK, SC 29745
800-582-8810
CONTACT: TIM SCISM 803-984-2020

CABLE/INTERNET/TELEPHONE

COMPORIUM COMMUNICATIONS
PO BOX 470
ROCK HILL, SC 29730
CONTACT: PAUL LINDSEY 803-326-6006
STEVE DICKSON 803-326-6027

AT&T

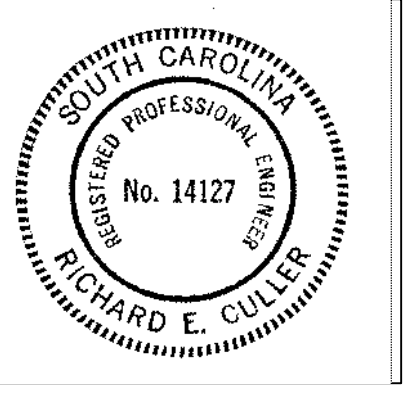
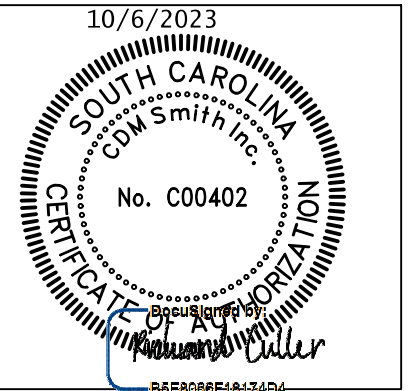
CONTACT: RON DUKES 803-606-6700

NATURAL GAS

YORK COUNTY NATURAL GAS AUTHORITY
979 WEST MAIN STREET
ROCK HILL, SC 29730
CONTACT: AMANDA GALLAGHER 803-323-5363



1441 Main Street Suite 1000
Columbia, SC 29201
Tel: 803-758-4500
PROJECT NO. 120959-111726



NO.	DATE	REVISION
1.	11/28/2023	Addendum 3 - Added Bid Items List to Cover Sheets
2.	12/17/2023	Addendum 5 - Updated Bid Items

SC-72 WIDENING
SEWER RELOCATIONS
COVER SHEET

ISSUED FOR BID
Project Manager: Mark Lester, PE
Drawn By: Checked By: AJK
DATE: JULY 2022
SCALE: 1"=20'
YORK COUNTY
DRAWING No. G-0

SC72 WIDENING
SEWER RELOCATIONS

XREFS: [] Images: [CoRH Logo, Cover Image, Richard's PE Seal, SCR11_Logo, York Logo]
Last saved by: KEOUGHIA Time: 9/2/2020 5:50:18 PM
pw:\cdmsmith-az02-pw.bentley.com\FW_PL\1120959\111726\04_Design_Services\NM_90%01_General\10_CADD\COVERS.dwg

SECTION 01220 - UNIT PRICES FOR WATER AND SEWER ITEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements: None.

1.2 DEFINITIONS

- A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.3 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: The schedule of unit prices is included in the Contract.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Item No. W1: Mobilization.
 - 1. Description: Includes Contractors costs of mobilizing to the site. Payment of the lump sum price shall constitute full compensation for all labor, materials, tools, equipment and

incidentals necessary for constructing those items complete, as shown on the plans and as specified in these specifications.

2. Unit of Measurement: The Lump Sum price of all Mobilization will be paid for on a percent complete basis. That percent complete being proposed by the Contractor, with justification if required, and as agreed to by the Engineer and Owner.

B. Item No. W2 thru W8: Demolition.

1. Description: The abandonment by filling with flowable fill grout or removal by excavation, removal, and backfill the existing water mains taken out of service will be in accordance with these plans and specifications. The unit price paid per linear foot filled shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for abandoning these water mains complete, as shown on the plans. This includes flowable fill grout, fittings, removal of fire hydrants and valve boxes, excavation, backfill, compaction, and survey.
2. Unit of Measurement: Per linear foot of pipe abandoned based on survey of abandoned in-place water main after completion.

C. Item No. W9: Rock Excavation.

1. Description: Classified rock excavation and disposal off-site and replacement with satisfactory fill material or engineered fill from off-site, as required, in accordance with the plans and specifications.
2. Unit of Measurement: Cubic Yard of rock excavated, based on in-place surveys volume of before and after removal.

D. Item No. W10: Full Depth Asphalt Pavement Patching 12" Uniform

1. Refer to SCDOT Standard Specifications for Highway Construction, 2007 Section 401.

E. Items No. W11, W12, W14, and W15: Ductile Iron Pipe installed.

1. Description: The installation of ductile iron water main in accordance with these plans and specifications. The unit price paid per linear foot installed shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for constructing those water mains complete, as shown on the plans and as specified in these specifications. This includes pipe of the joint type and class specified, gaskets, gripper gaskets, lubricant, survey, excavation, backfill, compaction, filling, flushing, testing, and sampling.
2. Unit of Measurement: Per linear foot of pipe installed based on survey of in-place water main after installation.

F. Items No. W13, W16, and W18: Poly Wrap DIP.

1. Description: Wrap ductile iron pipe with polyethylene in accordance with AWWA C105. The unit price paid per linear foot installed shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for installing polyethylene wrap on the pipes complete, as shown on the plans. Installation of DIP is not included in this item; see E. above.

2. Unit of Measurement: Per linear foot of polywrapped pipe installed based on survey of in-place wrapped water main after installation.
- G. Item No. W17: Fire Hydrants installed.
1. Description: The installation of fire hydrant assemblies in accordance with these plans, the various details, and specifications. The unit price paid per each hydrant shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for installing those fire hydrants complete, as shown on the plans and details.
 2. Unit of Measurement: Per each fire hydrant installed based on the agreed to count of fittings in-place as part of the completed water main.
- H. Items No. W19 through W20.1: Relocate Existing Water Services.
1. Description: The relocation of existing water services from existing water mains to new water mains after they have been approved and placed in service. This work to be as shown on the plans and in accordance with the City of Rock Hill Standard details and as directed by the City. The unit price paid per each service relocation shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for relocating those services complete. This includes tapping saddles, corporations, new service piping, excavation, backfill, compaction, etc.
 2. Unit of Measurement: Per each service relocated based on the agreed to count in-place.
- I. Items No. W21 through W22.1: Casing Installed by Open Cut.
1. Description: The installation of steel casing pipes under roadways by open cut in accordance with these plans and specifications. The unit price paid per linear foot installed shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for constructing those casing pipes complete, as shown on the plans and as specified in these specifications. This includes casing pipe as specified, casing spacers, end seals, welding, grouting, survey, and trench excavation, shoring, backfill, compaction, etc. as required on the plans and in specifications. These items do not include the carrier pipe, which are included above in Items No. W11, W12, W14, and W15.
 2. Unit of Measurement: Per linear foot of casing pipe installed per size based on survey of in-place casing after installation.
- J. Items No. W22.2 through W22.4: Valves installed.
1. Description: The installation of gate valves in accordance with these plans and specifications. The unit price paid per each valve shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for installing those valves complete, as shown on the plans and as specified in these specifications. This includes valves, valve boxes, operation extensions, gaskets, Megalugs, manholes, and support where called for.
 2. Unit of Measurement: Per each valve installed based on the agreed to count of valves in-place as part of the completed water main.
- K. Item No. W22.5: Tapping Sleeve & Valve installed.

1. Description: The installation of tapping sleeves and gate valves in accordance with these plans and specifications. The unit price paid per each assembly shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for installing those tapping sleeves & valves complete, as shown on the plans and as specified in these specifications. This includes tapping sleeves, valves, valve boxes, operation extensions, gaskets, Megalugs, manholes, and support where called for.
 2. Unit of Measurement: Per each tapping sleeve and valve assembly installed based on the agreed to count of valves in-place as part of the completed water main.
- L. Items No. W23 and W24: Sanitary Sewer installed.
1. Description: The installation of sanitary sewer pipe in accordance with these plans and specifications. The unit price paid per each linear foot installed shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for installing these pipes complete, as shown on the plans and as specified in these specifications. This includes pipe, gaskets, and support where called for.
 2. Unit of Measurement: Per each linear foot installed based on the surveyed length of gravity sewer line completed.
- M. Items No. W25 through W27: Manholes and Service Lateral.
1. Description: The installation of manholes and services laterals in accordance with these plans and specifications. The unit price paid per each item shall constitute full compensation for all labor, materials, tools, equipment and incidentals necessary for installing those items complete, as shown on the plans and as specified in the specifications. This includes manholes, manhole rings & covers, linings, boots, seals, and support where called for.
 2. Unit of Measurement: Per each item installed based on the agreed to count of items in-place as part of the completed sewer lines.

END OF SECTION 01220