


ADDENDUM NO. 4

DATE: March 2, 2018
TO: All Bidders
FROM: Penny Owens, Assistant Purchasing Agent 
SUBJECT: Addendum No. 4 – Magnolia Avenue Streetscape Project
PROJECT NO.: 15A-R-0584 & 16A-R-0609
BIDS TO BE OPENED: **March 6, 2018, at 11:00 a.m. Eastern Time**

This addendum becomes a part of the Contract Documents and modifies the original specifications as noted.

Changes to the Contract Documents & Specifications:

Release Agent for Colored and Stamped Concrete

The release agent is to be Butterfield Perma-Cast in colors R14-Walnut and R12-Storm Gray.

Sealer for Colored and Stamped Concrete

The sealer is to be Clear Guard Cure and Seal by Butterfield (or Owner approved equal) in a No Gloss Finish.

Bid Proposal

A revised bid proposal form is attached to this addendum. The following is a summary of the changes made:

- 1.) The description for Item No. 22.12.4 was revised.
- 2.) Item No. 70.13 was added.
- 3.) Item No. 70.14 was added.
- 4.) Item No. 71.04 was removed.
- 5.) The quantity for Item No. 725-22.25 was decreased.
- 6.) Item No. 730-12.40 was added.

Revised Sheets

A revised Phase I & Phase II Sheet No. 2A is attached to this addendum. The following is a summary of the changes made:

- 1.) The description for Item No. 22.12.4 was revised.
- 2.) Item No. 70.13 was added.
- 3.) Footnote 14 was added.
- 4.) Item No. 70.14 was added.
- 5.) Footnote 15 was added.
- 6.) Item No. 71.04 was removed.
- 7.) The quantity for Item No. 725-22.25 was decreased.
- 8.) Item No. 730-12.40 was added.
- 9.) Footnote 13 was added.

Clarification of Contract Documents & Specifications:

The following are responses to questions received from potential bidders:

Questions

Question #1: What storm structure is item 22.12.4, No. 12 Catch Basin >16'-20' Depth w/ Bike Grate to be used for? There is no type 12 structure of that depth listed in either Phase storm chart.

Response: The description for Item No. 22.12.4 has been changed to No. 42 Catch Basin, > 4' – 8' Depth.

Question #2: What TDOT standard drawing should be used for item 22.05, Junction Box?

Response: TDOT STD DWG. D-JBS-1, Standard 32" X 32" Square Concrete No. 1 Junction Box.

Question #3: Item 713-16.20 Street Name Signs. Plans say 8" Upper and 6" Lower case letters on a sign that is 18" tall. Typically, 8" is used on a 12" high sign and 12" is used on an 18" sign. Please clarify.

Response: While the MUTCD does allow for the use of larger letters if desired, all overhead signs currently used by the City of Knoxville Sign Shop are 18" metal with 8" Upper case letters. For consistency, the signs on this project shall have 8" Upper and 6" Lower case letters.

Question #4: Item 725-22.25 Conduit Bank 2" (HDPE). Plans show 2 of the 2" conduit in the bank run. Does this need to be encased in concrete or just buried?

Response: Where outside of the roadway, it will be direct buried and be paid for under Item No.

725-22.25. Item No. 730-12.40 has been added to cover side street crossings where encasement will be required.

Question #5: Can Solomon Colors, Inc. integral color “Camel” be used as an equivalent to the Butterfield “Weathered Terra Cotta” for the colored concrete?

Response: The substitution request will not be considered at this time.

Question #6: Can you distinguish the difference in pay items 13.12 and 71.04? Specifically what are the limits for item 71.04?

Response: Item No. 71.04 has been removed. All 4” colored and stamped concrete will be included in Item No. 13.12.

Question #7: Can you further clarify items 26.10 and 26.20 and the soil amendments referenced in the specs? The response in addendum #3 to question #61 states that both items 26.10 and 26.20 are subject to testing and both items may require organic or inorganic amendments based on the test results. Item 26.20 is for PLANTING MIX – AMENDMENTS, is that meant to be planting soil or amendments or planting soil with amendments? For instance, if item 26.10 TOPSOIL is tested and the results say that amendments are required, will the required quantity of amendments to be paid for as item 26.20 IN ADDITION to the quantity of item 26.10?

Response: Imported topsoil, meeting the requirements of specification section 32 90 00, shall be used for Item No. 26.10. Any amendments added to the topsoil will not be paid for under Item No. 26.20. Item No. 26.20 is to be used for amended planting soil. Bidders should assume that Nature's Helper Soil Conditioner (or accepted equal) will be used for entire quantity listed under Item No. 26.20.

Question #8: There are no pay items for excavation/conduit/backfill of the various runs of conduit needed for the street lighting system. If the cost for excavation/conduit/backfill of the conduits is included in other pay items, such as 70.06 LTG BRANCH WIRING, UNDER SIDEWALK, then the contractor has no way to get paid for the work to install the conduits runs until the very end of the project when the wire is pulled. Can items be added for the excavation/conduit/backfill of the different street lighting conduit runs?

Response: Item No. 70.13 has been added to cover excavation, conduit, and backfill only.

END OF ADDENDUM NO. 4

BID PROPOSAL
CITY OF KNOXVILLE, TENNESSEE

Magnolia Avenue Streetscape Project
Phase I, Project No. 15A-R-0584
Phase II, Project No. 16A-R-0609

TO THE PURCHASING AGENT
CITY OF KNOXVILLE, TENNESSEE

_____ hereby propose(s) to furnish all material, labor, and appliances and do all work required to complete the Contract for the Magnolia Avenue Streetscape Project, Project No. 15A-R-0584 (Phase I) and Project No. 16A-R-0609 (Phase II), located in the City of Knoxville, Tennessee, in a workmanlike manner and in accordance with the plans of the Department of Engineering and

Bidder further agrees that in case of failure to sign a delivered contract within thirty (30) days, the certified check or bid bond accompanying this bid and the proceeds thereof shall be the property of the City of Knoxville if the City chooses to retain said bid bond or check.

BID SCHEDULE

CITY OF KNOXVILLE ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
1.10	Mobilization of Forces, Supplies and Equipment (Maximum Amount = \$14,000 + 1% of Contract	LS	1	_____	_____
1.50	Construction Stakes, Lines and Grades	LS	1	_____	_____
2.20	Tree and Shrub Removal	LS	1	_____	_____
3.10	Removal of Pipe	LF	2,277	_____	_____
3.11	Removal of Rigid Pavement, Sidewalk, Etc.	SY	6,886	_____	_____
3.12	Removal of Vehicular Concrete	SY	7,101	_____	_____
3.13	Removal of Asphalt Pavement	SY	5,411	_____	_____
3.14	Removal of Curb	LF	5,302	_____	_____
3.15	Removal of Curb and Gutter	LF	1,364	_____	_____
3.16	Removal of Subsurface Trolley Tracks	LF	1,375	_____	_____
4.20	Common Excavation	CY	1,900	_____	_____
5.30	Maintenance Stone	TON	2,500	_____	_____
10.30	Saw Cutting Asphalt Pavement	LF	14,330	_____	_____

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
12.41	4" Mountable Curb and Gutter, Type 4-30	LF	25		
12.46	4" Nonmountable Concrete Curb	LF	100		
12.95	10" Concrete Curb	LF	37		
13.10	Concrete Sidewalks	SF	41,113		
13.11	Concrete Steps	LS	1		
13.12	4" Thick Concrete Paving (Colored and Stamped)	SF	2,540		
13.13	8" Thick Concrete Paving (Colored and Stamped)	SF	415		
13.20	Concrete Driveways	SF	11,693		
14.10	Flowable Fill (Flowable Mortar)	CY	13		
20.07	6" HDPE	LF	576		
20.08	12" HDPE	LF	1,654		
20.14	18" R.C.P.	LF	2,195		
20.16	24" R.C.P.	LF	608		
20.18	30" R.C.P.	LF	382		
20.20	36" R.C.P.	LF	70		
20.22	42" R.C.P.	LF	25		
20.24	48" R.C.P.	LF	426		
21.30	Water Quality Unit w/Diversion Box	EA	1		
22.00	No. 3 Manhole, 4' - 8'	EA	3		
22.01	No. 3 Manhole, 8' - 12'	EA	2		
22.02	No. 3 Manhole, 16' - 20'	EA	1		
22.05	Junction Box, Type 1	EA	3		
22.10.2	No. 10 Catch Basin, > 4' - 8' Depth w/Bicycle Grate	EA	1		
22.12.1	No. 12 Catch Basin, 0' - 4' Depth w/Bicycle Grate	EA	1		
22.12.2	No. 12 Catch Basin, > 4' - 8' Depth w/Bicycle Grate	EA	24		
22.12.3	No. 12 Catch Basin, > 8' - 12' Depth w/Bicycle Grate	EA	18		
22.12.4	No. 42 Catch Basin, > 4' - 8' Depth	EA	1		
22.12.5	No. 51 Catch Basin, > 16' - 20' Depth w/Bicycle Grate	EA	1		
22.12.6	GDOT Throated Inlet 1033F	EA	3		
22.12.7	Temporary Grate	EA	7		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
22.15	Area Drain Catch Basin (TDOT No. 42) 8' - 12'	EA	1		
22.40.2	Conversion of Existing Catch Basin to Junction Box	EA	2		
22.40.3	Adjustment of Existing Manhole	EA	3		
22.40.4	Conversion of Existing Manhole to Junction Box	EA	1		
26.10	Topsoil	CY	820		
26.20	Planting Mix - Amendments	CY	95		
26.30	Shrubs/Groundcover	SF	26,180		
26.40	Ornamental Trees	EA	19		
26.50	Medium Shade Trees	EA	12		
26.60	Large Shade Trees	EA	42		
26.70	Sod	SF	15,720		
26.80	Hardwood Mulch	CY	340		
26.90	Stone Mulch	CY	8		
31.10	Erosion Control	LS	1		
31.15	Tree Protection Fencing	LF	292		
34.10	Construction Area Traffic Control	LS	1		
38.10	Cold Planing of Asphalt Pavement	TON	2,036		
39.10	Temporary Pavement Marking (Line)	LF	5,030		
42.00	Tactile Warning System, Cast In Place	EA	34		
63.10	Signage and Striping	LS	1		
70.01	Lighting Pole Assembly - Street Lighting	EA	20		
70.02	Lighting Pole Assembly - Pedestrian Lighting	EA	60		
70.03	Street Lighting Assembly, Pole & Arm By Others	EA	6		
70.04	In-Grade Lighting Fixtures	EA	9		
70.05	Lighting Control Panel Assemblies	EA	2		
70.06	LTG Branch Wiring, Under Sidewalk	LF	11,660		
70.07	LTG Branch Fittings	EA	87		
70.08	Secondary Service Lateral LCP1, Under Sidewalk	LF	99		
70.09	Secondary Service Lateral LCP2	LF	275		
70.10	Service Risers	EA	2		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
70.11	Pull Boxes	EA	7		
70.12	Concrete Encasement for Duct Banks	LF	891		
70.13	2" Electrical Conduit	LF	211		
70.14	Monument Sign Lighting Service	LS	1		
71.01	Benches	EA	31		
71.02	Trash Receptacles	EA	16		
71.03	Bike Loops	EA	23		
303-01	Mineral Aggregate, Type A Base, Grading D	TON	4,500		
307-02.01	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading A	TON	125		
307-02.06	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B	TON	3,711		
307-02.08	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B-M2	TON	81		
402-01	Bituminous Material for Prime Coat (PC)	TON	9		
403-01	Bituminous Material for Tack Coat (TC)	TON	19		
411-02.10	ACS Mix (PG70-22) Grading D	TON	2,480		
702-01.01	Extruded Sloping Curb	LF	3,014		
702-03	Concrete Combined Curb & Gutter	CY	641		
713-16.20	Sign (Street Name Sign)	EA	12		
713-16.21	Sign (Turning Traffic Yield to Pedestrian 30" R10-15L)	EA	1		
725-02.79	Fiber Optic Closure (48F Enclosure)	EA	3		
725-03.09	Ethernet Switch (Type A)	EA	3		
725-22.25	Conduit Bank (2" HDPE)	LF	4,611		
725-23.02	Fiber Optic Testing	LS	1		
725-23.12	Fiber Optic Cable (48F)	LF	2,641		
725-23.21	Fiber Optic Drop Cable (12F)	LF	150		
725-24.61	Training	LS	1		
730-01.02	Removal of Signal Equipment	EA	3		
730-02.09	Signal Head Assembly (130 with Backplate)	EA	24		
730-02.30	Signal Head Assembly (140 A3H with Backplate)	EA	1		
730-03.21	Install Pull Box (Type B)	EA	12		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
730-03.23	Install Pull Box (Fiber Optic - Type A)	EA	7		
730-03.24	Install Pull Box (Fiber Optic - Type B)	EA	3		
730-03.33	Fiber Optic Splice Fusion	EA	12		
730-05.01	Electrical Service Connection	EA	3		
730-05.02	Service Cable (2 Conductor, #8 AWG)	LF	242		
730-08.01	Signal Cable - 3 Conductor (14 AWG Stranded)	LF	3,058		
730-08.02	Signal Cable - 5 Conductor (14 AWG Stranded)	LF	3,393		
730-08.03	Signal Cable - 7 Conductor (14 AWG Stranded)	LF	685		
730-08.05	Signal Cable - 12 Conductor (14 AWG Stranded)	LF	1,534		
730-12.02	Conduit 2" Diameter (PVC)	LF	701		
730-12.03	Conduit 3" Diameter (PVC)	LF	147		
730-12.09	Conduit 3" Diameter (RGS)	LF	2,520		
730-12.40	Encased Conduit (Conduit Bank 2" HDPE)	LF	440		
730-13.07	Vehicle Detector (Sonem 2000 Priority Control)	EA	12		
730-13.08	Vehicle Detector (Wavetronix)	EA	12		
730-15.09	Cabinet (Sixteen Phase Base Mounted)	EA	3		
730-16.14	Controller (Sixteen Phase Actuated Naztec ATC)	EA	3		
730-23.30	Pedestal Pole (10')	EA	14		
730-23.72	Cantilever Signal Support (1 ARM @ 35')	EA	1		
730-23.80	Cantilever Signal Support (1 ARM @ 40')	EA	1		
730-23.88	Cantilever Signal Support (1 ARM @ 45')	EA	6		
730-23.98	Cantilever Signal Support (1 ARM @ 55')	EA	2		
730-23.99	Cantilever Signal Support (1 ARM @ 60')	EA	2		
730-26.06	Pedestrian Pushbutton Post	EA	5		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
730-26.11	Countdown Ped Sgnl Head w/Audible Push Button & 15 in Sign	EA	24		
730-35.06	Battery Back-Up and Power Conditioner	EA	3		
730-40.02	Temporary Traffic Signal System	LS	1		
Total of all Roadway Items				\$	

KUB ESTIMATED QUANTITIES

A1000	Mobilization (Limited to Unit Price Bid or 8.25% of Project Bid Total, Whichever is Less)	LS	1		
A1010a	Traffic Control, Plans	LS	1		
A1010b	Traffic Control Implementation	LS	1		
A1015	Pre-Construction Site Video Recording	LS	1		
A1016	Temporary Guying of Utility Poles	EA	3		
A2115a	Gravity Sewer Pipe, PVC, 8 Inches, Paved, 0 - 6 Feet Deep	LF	146		
A2175a	Gravity Sewer Pipe, DIP, 8 Inches, Paved, 0 - 6 Feet Deep	LF	31		
A2176a	Gravity Sewer Pipe, DIP, 8 Inches, Paved, Installed Within 16" Steel Casing, 0 - 6 Feet Deep	LF	100		
A2395	Closed Circuit Television (CCTV) Inspections (As Directed by Owner)	LF	300		
A2400c	Pipe Heavy Cleaning (As Directed by Owner), 8 - Inch Diameter	LF	300		
A2405	Point Repair in Roadway	LF	10		
A2415c	Pipe Bursting, 8 - Inch Diameter	LF	1,760		
A2420	PVC Sewer Lateral Appurtenances	EA	20		
A2425a	PVC Sewer Lateral, 6-Inch Diameter, In Road	LF	500		
A2425b	PVC Sewer Lateral, 6-Inch Diameter, In Easement	LF	60		
A2435a	Manhole, Concrete, 4-Foot Diameter, 0 - 6 Feet Deep	EA	3		
A2495e	Drop Manhole, 4-Foot Diameter, 12 - 14 Feet Deep	EA	1		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
A2575a	Manhole Lining, 1-Inch Thick Cementitious Lining, 4 - Foot Diameter	VF	100		
A2590	Abandon Existing Manhole	EA	1		
A2620c	Abandon Existing Sewers by Grouting in Place, 8 - Inch Diameter	LF	300		
A2630	Sewer Flow Control	LS	1		
A6000	Temporary Patching	LF	500		
A307-02.06	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B	TON	610		
A6020	Crushed Rock Surfacing, Roadways, and Driveways	SY	165		
A6025	Seeding	SY	450		
A6030	Sodding	SY	5		
B3000f	Water Line, 8" DIP Water Line Under Pavement or Within 3' of Edge of Pavement per Section 02321	LF	2,800		
B3000g	Water Line, 6" DIP Water Line Under Pavement or Within 3' of Edge of Pavement per Section 02321	LF	140		
B3000j	Water Line, 2" Water Line Under Pavement or Within 3' of Edge of Pavement per Section 02321	LF	250		
B3000s	Water Line, 8" Restrained Joint Gaskets	EA	140		
B3005b	Water Main Bore, 2" Directional Bore	LF	1,825		
B3010a	Water Valve Installation, 2" HDPE Valve	EA	3		
B3010b	Water Valve Installation, 4" Gate Valve	EA	1		
B3010c	Water Valve Installation, 6" Gate Valve	EA	1		
B3010d	Water Valve Installation, 8" Gate Valve	EA	15		
B3015a	Air Valves, Blowoff Valves, & Hydrants, 2" Blow-Off Valve Assembly	EA	5		
B3015b	Air Valves, Blowoff Valves, & Hydrants, 1" Air-Release Valve	EA	2		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
B3015d	Air Valves, Blowoff Valves, & Hydrants, Fire Hydrant Assembly	EA	7		
B3015f	Air Valves, Blowoff Valves, & Hydrants, 8" Insertion Valve	EA	1		
B3020a	Tie-Ins to Existing Facilities, Sta. 0+00 Line "A"	EA	1		
B3020b	Tie-Ins to Existing Facilities, Sta. 0+00 Line "B"	EA	1		
B3020c	Tie-Ins to Existing Facilities, Connection to Existing 6" CI Water at Austin Street	EA	1		
B3020d	Tie-Ins to Existing Facilities, Connection to Existing 12" Water at Bertrand St.	EA	1		
B3020e	Tie-Ins to Existing Facilities, Connection to Existing 14" Water at Bertrand St.	EA	1		
B3020f	Tie-Ins to Existing Facilities, Sta. 23+24.74 End of Line "A"	EA	1		
B3025a	Service Connections, Reconnection (Service Tap) - 1" and Smaller	EA	31		
B3025b	Service Connections, Reconnection (Service Tap) - 1 1/2" - 2"	EA	7		
B3025e	Service Connections, Reconnection (Fireline) - 4"	EA	1		
B3025f	Service Connections, Reconnection (Fireline) - 6"	EA	1		
B3025h	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 1" and Smaller	EA	30		
B3025i	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 1 1/2" - 2"	EA	7		
B3025k	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 4"	EA	1		
B3025o	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 3/4" Copper Service Pipe	LF	793		

BD-6g

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
B3025p	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 1" Copper Service Pipe	LF	126		
B3025pp	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 1 1/2" Copper Service Pipe	LF	160		
B3025q	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 2" Copper Service Pipe	LF	110		
B3025s	Service Connections, Meter Well and Lid, Meter Horn, and Associated Fittings - 4" Dip Service Pipe	LF	34		
D.1a	Deductive Line Item, Credit for Reuse of Existing Meter Well and Lid	EA	-38		
B3030a	Retire Existing Water Facilities, Abandon Existing Mains	LS	1		
B3030b	Retire Existing Water Facilities, Abandoned Existing Water Valves, Air Valves, & Blowoff Assemblies	EA	50		
B3030c	Retire Existing Water Facilities, Abandon Existing Fire Hydrants	EA	7		
B6000	Temporary Patching	LF	750		
B307-02.06	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B	TON	2,625		
B6020	Crushed Rock Surfacing, Roadways, and Driveways	SY	585		
B6025	Seeding	SY	1,600		
B6030	Sodding	SY	15		
Total of all KUB Items				\$	
TOTAL BID				\$	
TOTAL BID (In Words):					

ESTIMATED QUANTITIES table with columns ITEM NO., DESCRIPTION, UNIT, QUANTITY. Includes items like MOBILIZATION OF FORCES, SUPPLIES AND EQUIPMENT (LS 1), CONSTRUCTION STAKES, LINES AND GRADES (LS 1), TREE AND SHRUB REMOVAL (LS 1), and various paving and concrete work items.

ESTIMATED QUANTITIES table with columns ITEM NO., DESCRIPTION, UNIT, QUANTITY. Includes items like CONCRETE ENCASUREMENT FOR DUCT BANKS (L.F. 891), 2" ELECTRICAL CONDUIT (L.F. 211), MONUMENT SIGN LIGHTING SERVICE (LS 1), and various utility and paving items.

FOOTNOTES: ① INCLUDES THE REMOVAL OF TREES AND SHRUBS AS SHOWN ON THE PRESENT LAYOUT SHEETS. ② INCLUDES REMOVAL AND DISPOSAL OF RAILS, WOOD CROSS TIES, AND AN AREA OF SOIL 10' WIDE BY 2' DEEP (+/- 926 C.Y.) CROSS TIES AND SOME EXCAVATED SOILS ASSOCIATED WITH REMOVAL OF THE TRACKS WILL NEED TO BE HAULED TO A CLASS 1 LANDFILL AS SPECIAL WASTE. HAULING AND TIPPING FEES ARE INCLUDED IN THIS ITEM. ③ INCLUDES 120 S.F. OF CONCRETE STEPS WITH HANDRAIL. ④ HIGH EARLY STRENGTH CONCRETE TO BE USED ON ALL DRIVEWAYS. ⑤ NEENAH FOUNDRY R-3067-C COMBINATION FRAME AND TYPE L GRATE TO BE USED ON SOUTH SIDE BASINS WHEN CROSS DRAINS HAVE BEEN INSTALLED DURING NORTH SIDE PHASE OF CONSTRUCTION BEFORE SOUTH SIDE CURB HAS BEEN COMPLETED. ⑥ TO INCLUDE ALL PERMANENT SIGNAGE AND PAVEMENT MARKINGS INCLUDING ITEMS SUCH AS ACCESSIBLE SYMBOLS AND STREET PRINT AND CROSSWALK MARKINGS. THERMOPLASTIC OR PREFORMED PLASTIC SHALL BE USED FOR SPECIALTY ITEMS SUCH AS STOP LINES, CROSS WALKS, ARROWS, CHANNELIZATION, AND OTHER SPECIALTY STRIPING ITEMS EXCEPT LINES. PERMANENT PAVEMENT MARKINGS FOR EDGE, CENTER SKIP AND LANE LINES SHALL BE ENHANCED FLAT LINE THERMOPLASTIC. ⑦ REFER TO THE WORK ZONE TRAFFIC SIGNAL NOTE ON SHEET 14D FOR PHASE I AND 13C FOR PHASE II. ⑧ ACCESSIBLE ADA PUSHBUTTON WITH VERBAL MESSAGE. ⑨ SEE SPECIAL NOTE 3 (SHEET 17 FOR PHASE I AND 16 FOR PHASE II) ⑩ SEE SPECIAL NOTE 1 (SHEET 17 FOR PHASE I AND 16 FOR PHASE II) ⑪ CONTACT PHILLIP REYES 865-215-6730 FOR EQUIPMENT DELIVERY AND POWER REQUEST ⑫ SEE SPECIAL NOTE 6 (SHEET 17 FOR PHASE I AND 16 FOR PHASE 2) ⑬ CONDUIT SHALL BE CONCRETE ENCASED UNDER SIDE STREETS. ⑭ TO INCLUDE EXCAVATION, CONDUIT, AND BACKFILL. WIRING AND ENCASUREMENT NOT INCLUDED. ⑮ TO INCLUDE ITEMS NOTED IN KEY NOTE 12, SHEET E2.

KUB ESTIMATED QUANTITIES table with columns ITEM NO., DESCRIPTION, UNIT, QUANTITY. Includes items like MOBILIZATION (LIMITED TO UNIT PRICE BID OR 8.25% OF PROJECT BID TOTAL, WHICHEVER IS LESS) (LS 1), TRAFFIC CONTROL, PLANS (LS 1), GRAVITY SEWER PIPE, PVC, 8 INCHES, PAVED, 0 - 6 FEET DEEP (L.F. 146), and various utility and paving items.

PROJECT No. 15A-R-0584, YEAR 2017, SHEET No. 2A. REVISIONS table with columns No., DATE, BY, BRIEF DESCRIPTION. Shows revisions 1 and 2.



02/28/2018

CITY OF KNOXVILLE OFFICE OF REDEVELOPMENT

ESTIMATED QUANTITIES

MAGNOLIA AVENUE STREETScape PROJECT PHASE I & PHASE II

DRAWN: ALF
DESIGNED: MLK
DATE: 11-06-17
CHECKED: AW
APPROVED: COI