ESTIMATED BRIDGE QUANTITIES

FOOTNOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTALS	SUPERSTRUCTURE	ABUTMENT NO. 1	BENT NO. 1	BENT NO. 2	BENT NO. 3	ABUTMENT NO. 2
(1)	202-04.01	REMOVAL OF STRUCTURES (PARTIAL, BRIDGE NO. 19-I0040-16.62)	LS.	1						
(2)	602-04.01	STEEL STRUCTURES (HERMAN ST., BRIDGE NO. 19-I0040-16.62)	LS.	1						
(3)	602-04.98	STEEL STRUCTURES (HERMAN ST BRIDGE MATERIAL ONLY 1,174,321 LBS.)	LS.	1						
(4)	602-10.66	BEARING DEVICES (STL REINF ELASTOMERIC)	EACH	96			32	32	32	
(5)	604-03.07	CLASS A CONCRETE (HIGH EARLY STRENGTH)	C.Y.	62	62					
(6)	604-03.09	CLASS D CONCRETE (BRIDGE DECK)	C.Y.	1178	1178					
(7)	604-04.02	APPLIED TEXTURE FINISH (EXISTING STRUCTURES)	S.Y.	2147	811	112	312	400	400	112
(8)	604-04.41	THREE STAR STATE EMBLEM	EACH	4						
(9)	604-10.14	REMOVE EXISTING WEARING SURFACE	LS.	1						
(10)	604-10.17	NON-PENETRATING CONCRETE SEAL	S.Y.	182		28	42	42	42	28
(11)	604-10.18	REINFORCING STEEL (REPAIRS)	LB.	346232	344622	805				805
(12)	604-10.44	EXPANSION JOINT REPAIRS	L.F.	252		126				126
(13)	604-10.54	CONCRETE REPAIRS	S.F.	35		10	5	5	5	10
(14)	604-11.01	EXPANSION DEVICE (STL REINF ELASTOMERIC)	EACH	32		16				16
(15)	615-04.10	NON-SHRINK GROUT	C.F.	1697	1633	32				32
(16)	617-01	BRIDGE DECK SEALANT	S.Y.	4758	4758					
(17)	617-02	BRIDGE DECK CRACK SEALING	L.F.	5618	5618					
(18)	617-05	SEALANT (HMWM)	GAL	30	30					
(19)	620-05.01	CONC PARAPET SINGLE SLOPE (STD-1-1SS)	L.F.	693	693					
(20)	711-02.06	REINFORCED CONCRETE MEDIAN BARRIER (STD-1-3SS)	L.F.	347	347					
(21)	714-01.01	STRUCTURAL LIGHTING (BRIDGE NO. 19I0040-16.62)	LS.	1						

FOOTNOTES

(1) ITEM INCLUDES REMOVAL OF EXISTING BRIDGE SUPERSTRUCTURE, PARTIAL REMOVAL OF ABUTMENTS AND WINGWALLS AND OTHER AREAS DESIGNATED IN THE PLANS. ALSO INCLUDES REMOVAL AND DISPOSAL OF WASTE FROM EXISTING BEAMS PRODUCED DUE TO ANY CUTTING REQUIRED FOR CHOSEN DEMOLITION METHOD. ITEM ALSO INCLUDES ANY BRACING THAT MAY BE REQUIRED TO SUPPORT PORTIONS OF THE SUPERSTRUCTURE AND SUBSTRUCTURE DURING THE EXECUTION OF THE PROJECT AND ALSO INCLUDES ALL FORMWORK REQUIRED SO THAT NO DEBRIS IS ALLOWED TO FALL ONTO THE RAILROAD OR ROADWAY BELOW. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

(2) ITEM INCLUDES ALL LABOR, EQUIPMENT AND INCIDENTALS NECESSARY FOR THE INSTALLATION OF FABRICATED BRIDGE AS DETAILED IN THE CONTRACT PLANS. THIS DOES NOT INCLUDE THE COST OF THE WORK ITEMS AND MATERIALS INCLUDED IN ITEM 602-04.98.

(3) NOTE: LUMP SUM: TOTAL ESTIMATED WEIGHT OF 1,174,321 LBS. OF STRUCTURAL STEEL INCLUDES BEAMS, DIAPHRAGMS, BOLTS, STUDS, AND PLATES. ALSO SEE TENNESSEE STANDARD SPECIFICATIONS SECTIONS 602.49 AND 602.50. STRUCTURAL STEEL PLATES AND SHAPES SHALL BE ASTM A588 AND BOLTS SHALL ALSO BE WEATHERING STEEL. SEE DRAWING NO. BR-119-04 FOR ADDITIONAL NOTES AND DETAILS. PORTIONS OF STRUCTURAL STEEL TO BE ENCASED IN CONCRETE SHALL BE PRIMED AND PAINTED AS NOTED IN THE PLANS. COST IS FOR MATERIALS, FABRICATION AND DELIVERY TO SITE.

(4) BEARING DEVICES SHALL BE STEEL REINFORCED LAMINATED ELASTOMERIC BEARING PADS (50 DUROMETER MATERIAL) VULCANIZED TO 1½" STEEL SOLE PLATE. SEE PLANS FOR BEARING DIMENSIONS AND DETAILS. COST OF SOLE PLATES AND STACKED SHIM PLATES ARE TO BE INCLUDED IN BEARING COST. APPROX. WEIGHT OF STRUCTURAL STEEL IS 114,210 LBS.

(5) CLASS "A" CONCRETE (HIGH EARLY STRENGTH) IS TO BE USED FOR CONSTRUCTION OF MODIFICATIONS TO THE EXISTING ABUTMENTS AND PIERS AND TRANSVERSE CLOSURE POURS . SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

(6) UCTURE UNIT CONCRETE AND CAST-IN-PLACE CANTILEVER AND MEDIAN DECK AREAS.

(7) EXTURE COATING, SEE DETAIL THIS SHEET.

(8) COST INCLUDES ALL INCIDENTALS, LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION AND FINISHING OF THIS ITEM. LOCATION TO BE ON THE BACK OF THE BRIDGERAIL WITH THE EXACT LOCATION DESIGNATED BY THE ENGINEER IN THE FIELD.

(9) G ASPHALT IS 3½" ON SBL AND 4" ON NBL.

(10) HEET BR-119-03 FOR ADDITIONAL DETAILS.

(11) MECHANICAL BAR SPLICERS: MUST BE ON THE APPROVED LIST MAINTAINED BY THE DIVISION OF MATERIALS AND TESTS. THE BAR SPLICER SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR MECHANICAL CONNECTION. WHEN EPOXY COATING IS REQUIRED, THE EXPOSED THREADS SHALL BE REPAIRED AFTER SPLICING ACCORDING TO THE STANDARD SPECIFICATIONS, SECTION 907. THE COST OF FURNISHING THE BAR SPLICERS, EPOXY COATING INCLUDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-10.18, LBS.

(12) EXPANSION JOINT SYSTEM, INCLUDING ELASTOMERIC CONCRETE FOR HEADERS, JOINT SEAL MATERIAL AND MASTIC.

(13) NITS. IT MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER. SEE DRAWING BR-119-45 FOR DETAILS.

(14) EXPANSION DEVICES SHALL BE STEEL REINFORCED LAMINATED ELASTOMERIC BEARING PADS (50 DUROMETER MATERIAL) VULCANIZED TO 1½" STEEL SOLE PLATE. SEE PLANS FOR EXPANSION BEARING DIMENSIONS AND DETAILS. COST OF SOLE PLATE INCLUDED IN BEARING COST.

(15) GROUTING APPLICATIONS AS DESIGNATED IN THE PLANS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

(16) SPECIFICATIONS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

(17) INCLUDES ALL COSTS FOR INSTALLING BRIDGE DECK CRACK SEALER (HMWM) INCLUDING CRACK PREPARATION, CLEANING LABOR AND MISCELLANEOUS MATERIALS TO SEAL ALL TRANSVERSE AND LONGITUDINAL CONSTRUCTION JOINTS.

(18) ON APPLICATION RATE OF 200 L.F. PER GALLON. SEALER SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 604CR.

(19) TO FORM AND CAST TWO (2) LIGHT STANDARDS AS SHOWN ON STD-8-2SS AND LOCATED ON DRAWING BR-119-01.

(20) E COST OF THE MEDIAN BARRIER RAIL. SEE GENERAL NOTE 10 ON BR-119-03

(21) LUDED IN PAY ITEM. SEE LIGHTING PLANS FOR ADDITIONAL DETAILS AND REQUIREMENTS.

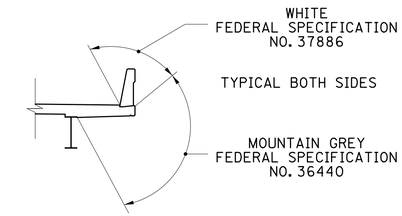
(22) R BOLTS AND DOWEL RODS FOR SUPERSTRUCTURE UNITS SHALL BE INCLUDED IN OTHER ITEMS BID ON.

CONST. NO. 19005-3161-44

PROJECT NO.	YEAR	SHEET NO.
BH-I-40-4(86)	2015	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



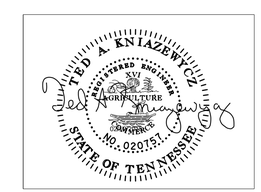
LIMITS OF TEXTURE FINISH

NOTE: IN ADDITION TO PORTIONS SHOWN IN THE TEXTURE FINISH SKETCH, THE ABUTMENTS ARE TO RECEIVE AN APPLIED TEXTURE FINISH.

NOTE: BEFORE APPLYING ANY TEXTURE FINISH, ALL SURFACES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS AND FOREIGN MATERIALS.

NOTE: THE CONTRACTOR SHALL USE CONTAINMENT SCREENS OR OTHER MEASURES TO PREVENT ANY TEXTURE COATING FROM ENTERING THE ENVIRONMENT. CONTAINMENT MEASURES SHALL BE APPROVED BY THE ENGINEER AND COST SHALL BE INCLUDED IN ITEMS BID NO.

NOTE: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE STANDARD SPECIFICATION. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. THE COLOR OF THE FINISH SHALL BE SIMILAR TO MOUNTAIN GRAY, FEDERAL SPECIFICATION NO. 36440, FEDERAL COLOR STANDARD NO. 595A, EXCEPT THAT THE INSIDE FACE AND TOP OF THE PARAPET SHALL BE WHITE, FEDERAL SPECIFICATION NO. 37886. A COLOR SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM 604-04.02.



BRIDGE NO. 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ESTIMATED
BRIDGE QUANTITIES
I-40 OVER
HERMAN STREET
AND NWRR
BR. NO. 19-I0040-16.62
DAVIDSON COUNTY
2015

BR-119-02

DESIGNED BY GRESHAM SMITH & PARTNERS DATE 2/09/2015
DRAWN BY C.YOUNG DATE 1/2015
SUPERVISED BY T. KNIAZEWYCZ DATE 1/2015
CHECKED BY T. KNIAZEWYCZ DATE 2/2015

GRESHAM SMITH AND PARTNERS

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2/12/2015
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