SHT102OR2.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2012	NHE-15(108)	2

CONST. NO. 36001-3290-14

1 7/21/14 REVISION DATES

2 9/25/14 REVISION DATES

HARDIN COUNTY

X081	X081		
BRIDGE NO. 1 STATE ROUTE 15 OVER SMITH FORK CREEK STA. 591+50.00 CONTINUOUS PRECAST PRESTRESSED 54" BULB-TEE BEAMS WITH COMPOSITE CONCRETE DECK SLAB 3 SPAN BRIDGE TOTAL LENGTH = 300'-0" SPAN 1 = 100'-3" SPAN 2 = 99'-6" SPAN 3 = 100'-3" 2 - 42'-0" ROADWAYS WITH STD-1-1SS PARAPETS 90° SKEW LAYOUT DWG. NO. U-52-93	BRIDGE NO. 2 STATE ROUTE 15 OVER BIGBEE BRANCH STA. 748+55.75 CONTINUOUS PRECAST PRESTRESSED 54" BULB-TEE BEAMS WITH COMPOSITE CONCRETE DECK SLAB 3 SPAN BRIDGE SPAN 1 = 84'-1" SPAN 2 = 83'-4" SPAN 3 = 84'-1" 2 - 42'-0" ROADWAYS WITH STD-1-1SS PARAPETS 90° TO TANGENT LINE LAYOUT DWG. NO. U-52-113	RETAINING WALL NO. 1 STA. 454+12.53 TO STA. 457+12.12 TOTAL LENGTH = 299'-8" DWG. NO. U-50-99	RETAINING WALL NO. 2 STA. 733+00.00 TO STA. 734+00.00 TOTAL LENGTH = 100'-0" DWG. NO. U-50-100

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	QUANTITY			GRAND TOTAL	UNIT
202-04.01	REMOVAL OF STRUCTURES (EXIST. BR. NO. 36-SR15-17.87)	1				1	L.S.
202-04.02	REMOVAL OF STRUCTURES (EXIST. BR. NO. 36-SR15-20.85)		1			1	L.S.
204-02.01	DRY EXCAVATION (BRIDGES)	498	580			1,078	C.Y.
204-03.01	WET EXCAVATION (BRIDGES)	300	892			1,192	C.Y.
204-04.01	ROCK EXCAVATION (BRIDGES)	36				36	C.Y.
204-05	ROCK DRILLING (BRIDGES)	144				144	L.F.
204-10.01	FOUNDATION PREPARATION (BENT NO. 1 LT. LN., STA. 591+00.25)	1				1	L.S.
204-10.02	FOUNDATION PREPARATION (BENT NO. 2 LT. LN., STA. 591+99.75)	1				1	L.S.
204-10.03	FOUNDATION PREPARATION (BENT NO. 1 RT. LN., STA. 591+00.25)	1				1	L.S.
204-10.04	FOUNDATION PREPARATION (BENT NO. 2 RT. LN., STA. 591+99.75)	1				1	L.S.
204-10.05	FOUNDATION PREPARATION (BENT NO. 1 LT. LN., STA. 748+14.08)		1			1	L.S.
204-10.06	FOUNDATION PREPARATION (BENT NO. 2 LT. LN., STA. 748+97.42)		1			1	L.S.
204-10.07	FOUNDATION PREPARATION (BENT NO. 1 RT. LN., STA. 748+14.08)		1			1	L.S.
204-10.08	FOUNDATION PREPARATION (BENT NO. 2 RT. LN., STA. 748+97.42)		1			1	L.S.
303-01.02	GRANULAR BACKFILL (BRIDGES)	68	60			128	TON
604-02.03	EPOXY COATED REINFORCING STEEL	207,498	155,676			363,174	LB.
604-03.01	CLASS 'A' CONCRETE (BRIDGES)	594	604			1,198	C.Y.
604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	107,842	86,938			194,780	LB.
604-03.04	PAVEMENT AT BRIDGE ENDS	430	430			860	S.Y.
604-03.09	CLASS 'D' CONCRETE (BRIDGE DECK)	766	628			1,394	C.Y.
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	3,216	2,627			5,843	S.Y.
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	3,004	2,584			5,588	S.Y.
604-07.01	RETAINING WALL NO. 1			4,034		4,034	S.F.
604-07.02	RETAINING WALL NO. 2				547	547	S.F.
606-02.03	STEEL PILES (10 INCH)	1,555	3,438			4,993	L.F.
606-02.06	PILE TIPS (STEEL PILES, 10 INCH)	40	144			184	EA.
615-01.10	PRESTRESSED CONCRETE BULB-TEE BEAM (6" WEB)(BT-54)	2,940	2,456			5,396	L.F.
620-05.01	CONCRETE PARAPET SINGLE SLOPE (STD-1-1SS)	1,326	1,132			2,458	L.F.
710-09.01	6" PERF. PIPE WITH VERTICAL DRAIN SYSTEM	264	264			528	L.F.
710-09.02	6" PIPE UNDERDRAIN	70	71			141	L.F.

LIST OF DRAWINGS

	DWG. NO.	LAST REV. DATE
LAYOUT THRU BILL OF STEEL	U-52-93	
	U-52-112	
LAYOUT THRU BILL OF STEEL	U-52-113	
	U-52-135	
RETAINING WALL NO. 1	U-50-99	9-25-14
RETAINING WALL NO. 2	U-50-100	9-25-14
RETAINING WALL DETAILS	U-50-101	9-25-14

LIST OF STANDARD DRAWINGS

	DWG. NO.	LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET	STD-1-1SS	5-01-14
SLIDER PLATES FOR SINGLE SLOPE PARAPETS AND DECK DRAINS	STD-1-2SS	
PAVEMENT AT BRIDGE ENDS	STD-1-5	3-26-14
BRIDGE END DRAIN W/ PABE	STD-1-6	4-28-97
BRIDGE END DRAIN W/ PABE	STD-1-7	8-24-11
BRIDGE END DRAIN 4'×8'-7" W/ PABE	STD-1-9	5-01-95
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-1	4-08-05
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA	STD-4-2	4-08-05
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-3	3-02-02
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS	STD-4-4	6-10-96
STANDARD PILE DETAILS	STD-5-1	10-25-93
STANDARD SEISMIC DETAILS	STD-6-1	11-01-10
REINF. BAR SUPPORT DETAILS FOR CONC. SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT & DRAINAGE DETAILS	STD-10-1	4-08-05
STD. DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR BULB-TEE BEAMS	STD-14-1	5-01-14
SAFETY APPROACH TO UNDERPASSES GRADING DESIGN & SLOPE PROTECTION	RD01-SA-1	10-15-02

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED BRIDGE AND RETAINING WALL QUANTITIES

DRAWN BY: P. MOSHER