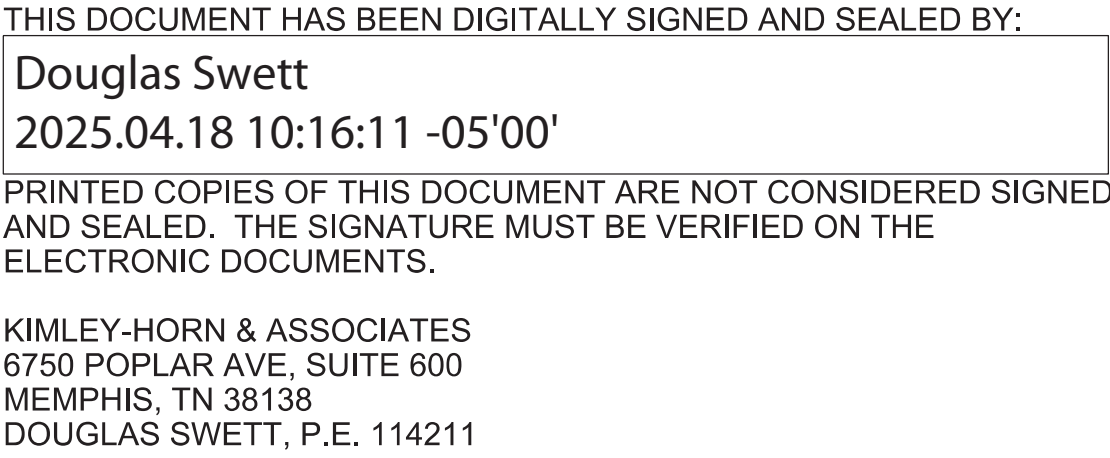




SHEET NAME	SHEET NO.
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YEAR	PROJECT NO.	SHEET NO.
2025	HSIP-7900(67)	ITS-SIGN 2

REV. 04-18-25:
ADDED SHEET

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
ITS SIGNATURE SHEET

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STANDARD DRAWINGS

DWG.	REV.	DESCRIPTION
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STANDARD ROADWAY DRAWINGS

STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND

LEGENDS

RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS

ROADWAY DESIGN STANDARDS

RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
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ROADWAY , PAVEMENT APPURTENANCES, AND FENCES

S-F-1	03/01/23	HIGH VISIBILITY FENCE
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SAFTEY DESIGN AND GUARDRAILS

S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
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DESIGN- TRAFFIC CONTROL

T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-18	07-07-23	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-64		WORK ZONE IN THE VICINITY OF AN EXIT RAMP
T-WZ-FAB-1		FLASHING YELLOW ARROW BOARD

STANDARD STRUCTURE DRAWINGS

NEW STRUCTURES

STD-8-4		SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS
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DWG.	REV.	DESCRIPTION
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STANDARD TRAFFIC OPERATIONS DRAWINGS

SIGNS

T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-20	07-11-17	SIGN DETAILS

SIGNALS

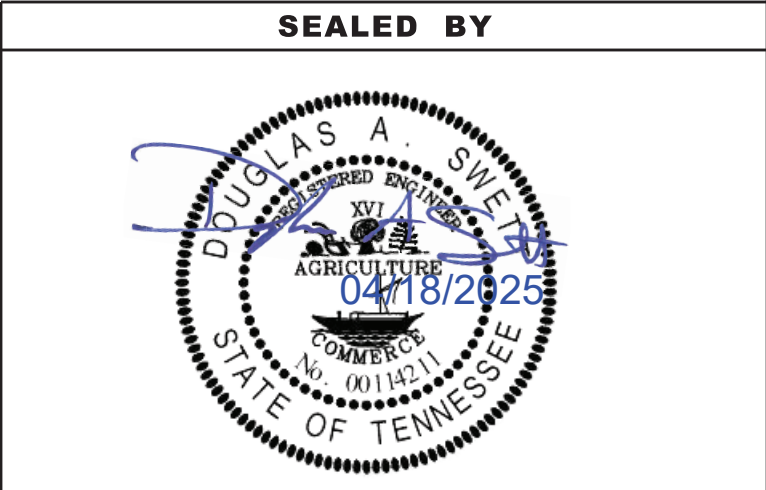
T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-6	10-21-19	PEDESTRIAN SIGNAL DETAILS
T-SG-10	09-12-23	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS

LIGHTING AND UTILITY POLES

T-FO-2		FIBER OPTIC UNDERGROUND ENTERANCE DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS
T-L-1	07-15-24	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	07-15-24	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-7900(67)	2
PIH	2024	HSIP-7900(67)	1A
PS&E	2025	HSIP-7900(67)	1A

REV. 04-18-25:
ADDED ITS-SIGN-2 TO THE INDEX OF SHEETS



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET INDEX
AND STANDARD
DRAWINGS

4/18/2025 9:35:06 AM
K:\MEM_TPTO\115004112 - TDOT Wrong Way Vehicle Prevention Pilot\Cadd\Plans\2 - Estimated Quantities.dgn

ESTIMATED ITS QUANTITIES				
FOOT-NOTE	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 79IVAR-F3-002
(1)	209-09.01	SANDBAGS	BAG	156
(1)	209-20.03	POLYETHELENE SHEETING (6 MIL MINIMUM)	S.Y.	650
(2)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	2
(3)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	420
	712-01	TRAFFIC CONTROL	LS	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	180
	712-06	SIGNS (CONSTRUCTION)	S.F.	190
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	700
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.20	SIGNS (ILLUMINATED DO NOT ENTER)	EACH	22
	713-16.21	SIGNS (LED WRONG WAY)	EACH	34
(4)	714-06.23	CABLE (1/C #1 AWG)	L.F.	1365
(5)	714-71.21	STEEL LIGHTING POLE 30 FT	EACH	13
	717-01	MOBILIZATION	LS	1
(4)	725-16.20	WRONG WAY DRIVING DETECTION SYSTEM	EACH	30
(4) (5)	725-20.02	CCTV POLE & FOUNDATION (80FT POLE W/L WRNG DEVICE)	EACH	1
(4)	725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	13
(4)	725-20.10	MAINTENANCE WORK PAD (WOOD PLATFORM)	EACH	1
(4)	725-20.43	PULL BOX (TYPE C)	EACH	77
(4)	725-20.44	PULL BOX (TYPE D)	EACH	29
(4) (14)	725-20.45	PULL BOX (TYPE E)	EACH	2
(4)	725-20.53	CABLE (1/C #10 AWG.)	L.F.	5370
(4)	725-20.54	CABLE (1/C #8 AWG.)	L.F.	23450
(4)	725-20.56	CABLE (1/C #4 AWG.)	L.F.	5720
(4)	725-20.57	CABLE (1/C #2 AWG.)	L.F.	5680
(4)	725-20.59	CABLE (1/C #2/0 AWG.)	L.F.	6015
(4)	725-20.60	CABLE (1/C #3/0 AWG.)	L.F.	5450
(4)	725-20.61	CABLE (1/C #4/0 AWG.)	L.F.	8890
(4) (8)	725-20.71	ELECTRICAL CONNECTION	LS	1
(4)	725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	1
(4)	725-21.03	DYNAMIC MESSAGE SIGN (OVER-SHOULDER)	EACH	4
(4) (13)	725-21.11	NETWORK SWTCH (TYPE A)	EACH	13
(4)	725-21.32	CAT 6 CABLE	L.F.	960
(4) (9)	725-21.43	DEMARCATON SITE (OVERHEAD)	EACH	4
(4)	725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	17
(4) (6) (7)	725-22.22	CONDUIT BANK (TYPE 2)	L.F.	185
(4) (6) (7)	725-22.23	CONDUIT BANK (TYPE 3)	L.F.	3165
(4) (6) (7)	725-22.32	CONDUIT BANK BORED (TYPE 2)	L.F.	60
(4) (6) (7)	725-22.33	CONDUIT BANK BORED (TYPE 3)	L.F.	1450
(4) (6) (7)	725-22.71	2 IN CONDUIT	L.F.	7165
(4) (6) (7)	725-22.72	2 IN CONDUIT BORED	L.F.	995
(4) (6) (7)	725-22.74	2 IN CONDUIT W/ BANK	L.F.	1855
(4) (6) (7)	725-22.78	3 IN CONDUIT	L.F.	2245
(4) (6) (7)	725-22.80	3 IN CONDUIT W/ BANK	L.F.	1245
(4) (6) (7)	725-22.81	3 IN CONDUIT BORED W/ BANK	L.F.	505
(4)	725-23.01	ITS CABLE MARKER	EACH	153
(4)	725-23.02	FIBER OPTIC TESTING	LS	1
(4)	725-23.21	FIBER OPTIC DROP CABLE (12 F)	L.F.	14495
(4)	725-23.26	FIBER OPTIC CLOSURE (12F)	EACH	7
(4)	725-23.28	FIBER OPTIC SPLICE FUSION	EACH	64
(4)	725-24.02	CABINET (TYPE B)	EACH	13
(4)	725-24.03	CABINET (TYPE C)	EACH	4
(4)	725-24.21	PREVENTATIVE MAINTENANCE FOR SYSTEM	LS	1
(4)	725-24.25	UNSCHEDULED MAINTENANCE LABOR	HOURL	60
(4)	725-24.31	SPARE PARTS	LS	1
(4)	725-24.41	BURN-IN PERIOD	LS	1
(4)	725-24.52	SOFTWARE INTEGRATION	LS	1
(4)	725-24.54	NETWORK INTEGRATION	LS	1
(4)	725-24.55	AS-BUILT PLANS	LS	1
(4)	725-24.61	TRAINING	LS	1
(4) (5) (12)	730-23.29	PEDESTAL POLE (TYPE B)	EACH	56
(4)	740-11.02	TEMPORARY SEDIMENT TUBE (12 INCH)	L.F.	2100
(10) (11)	803-01	SODDING (NEW SOD)	S.Y.	28

FOOTNOTES

- (1)

ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- (2)

THIS ITEM TO BE USED WITH THE CONSTRUCTION OF WORK PADS AS DIRECTED BY THE ENGINEER.
- (3)

ITEM TO BE USED TO DELINEATE ENVIRONMENTALLY SENSITIVE AREA IN CLOSE PROXIMITY TO AREAS WHERE WORK IS PROPOSED PRIOR TO COMMENCING WORK, AS DIRECTED BY ENGINEER.
- (4)

REFER TO SPECIAL PROVISION 725 (SP725) FOR DESCRIPTION AND SPECIFICATIONS.
- (5)

BID ITEM SHALL INCLUDE THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR DESIGN AND COMPLETE INSTALLATION OF THE POLE FOUNDATION.
- (6)

MULTIPLE CONDUIT RUNS MAY BE SHARED WITH THE SAME TRENCH OR BORE (SEE ITS LAYOUT SHEETS FOR LOCATIONS).
- (7)

ROCK SHALL BE CONSIDERED INCIDENTAL TO ALL TRENCHING AND BORING. NO SEPARATE PAYMENT WILL BE APPLIED FOR LOCATIONS WHERE ROCK IS ENCOUNTERED.
- (8)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE AT EACH SITE. THESE CHARGES AND ANY OTHER EQUIPMENT NECESSARY FOR A COMPLETE SERVICE CONNECTION SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM FOR PAYMENT BY THE CONTRACTOR. ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH MODIFICATIONS TO EXISTING DEMARCATON POINTS OR INSTALLATION OF NEW DEMARCATON POINTS AS SHOWN ON ITS 2G-23 ELECTRICAL DEMARCATON POINT TABLE.
- (9)

ITEM TO INCLUDE ALL MATERIAL NECESSARY TO SUPPLY ELECTRICAL SERVICE TO ITS CABINETS AND EQUIPMENT.
- (10)

TO BE USED AS DIRECTED BY THE ENGINEER.
- (11)

ITEM TO INCLUDE ALL LABOR AND PREP WORK REQUIRED TO INSTALL SOD.
- (12)

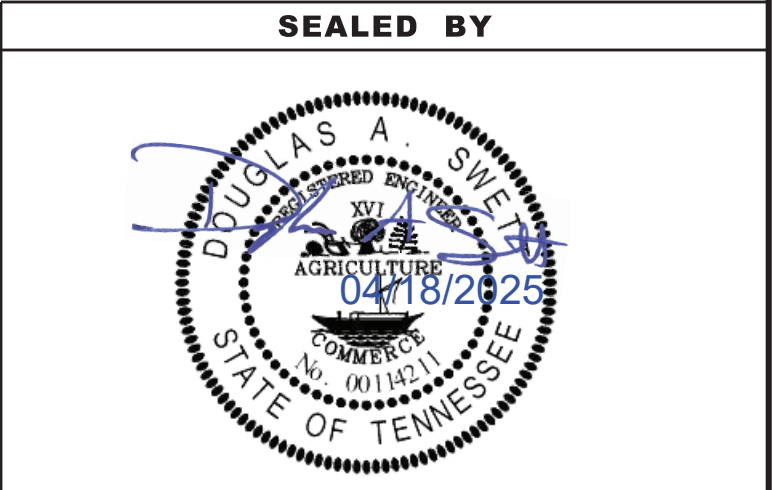
ITEM TO INCLUDE COST OF BREAKAWAY BASE FOR PEDESTAL POLES.
- (13)

NETWORK SWITCH (TYPE A) TO BE CISCO IE 3400.
- (14)

ITEM TO BE USED AS NEEDED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-7900(67)	2
PIH	2024	HSIP-7900(67)	2
PS&E	2025	HSIP-7900(67)	2

REV. 04-18-25:
REVISED DUPLICATE ITEM NO. 725-22.72 "2 IN CONDUIT W/BANK" TO ITEM NO. 725-22.74 "2 IN CONDUIT W/BANK"



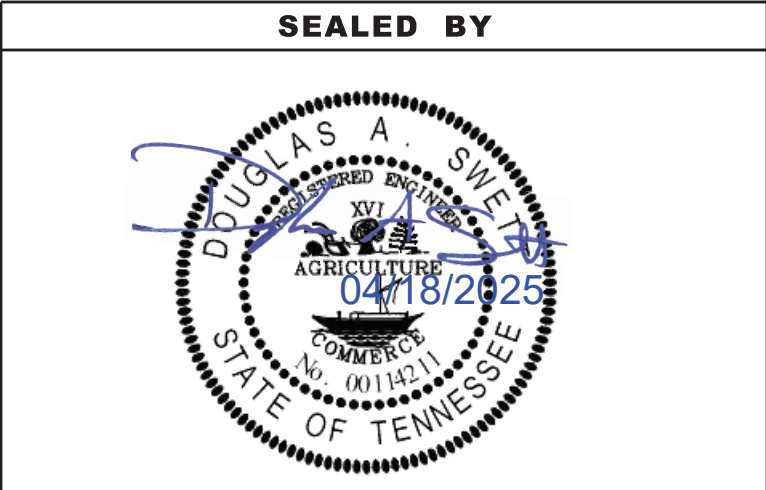
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	HSIP-7900(67)	2A
PS&E	2025	HSIP-7900(67)	2A

REV. 04-18-25:
REVISED DUPLICATE ITEM NO. 725-22.72 "2 IN CONDUIT W/BANK" TO ITEM NO. 725-22.74 "2 IN CONDUIT W/BANK"

ESTIMATED ITS QUANTITIES BY SHEET															
FOOT-NOTE	ITEM NO.	DESCRIPTION	UNIT	ITS-5	ITS-6	ITS-7	ITS-8	ITS-9	ITS-10	ITS-11	ITS-12	ITS-13	ITS-14	ITS-15	TOTAL QUANTITY
(1)	209-09.01	SANDBAGS	BAG	12		12	12	24	12	24	12	24	12	12	156
(1)	209-20.03	POLYETHELENE SHEETING (6 MIL MINIMUM)	S.Y.	50		50	50	100	50	100	50	100	50	50	650
(3)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	420											420
	713-16.20	SIGNS (ILLUMINATED DO NOT ENTER)	EACH	2		2	3	3	2	2	2	2	2	2	22
	713-16.21	SIGNS (LED WRONG WAY)	EACH	2		4	3	4	4	4	3	4	4	2	34
(4)	714-06.23	CABLE (1/C #1 AWG)	L.F.					1355					10		1365
(5)	714-71.21	STEEL LIGHTING POLE 30 FT	EACH	1		1	1	2	1	2	1	2	1	1	13
(4)	725-16.20	WRONG WAY DRIVING DETECTION SYSTEM	EACH	3		3	3	3	3	3	3	3	3	3	30
(4) (5)	725-20.02	CCTV POLE & FOUNDATION (80FT POLE W/LWRNG DEVICE)	EACH										1		1
(4)	725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	1		1	1	2	1	2	1	2	1	1	13
(4)	725-20.10	MAINTENANCE WORK PAD (WOOD PLATFORM)	EACH										1		1
(4)	725-20.43	PULL BOX (TYPE C)	EACH	5		8	6	8	7	13	8	8	8	6	77
(4)	725-20.44	PULL BOX (TYPE D)	EACH	3		1	2	4	1	7	1	6	1	3	29
(4)	725-20.53	CABLE (1/C #10 AWG.)	L.F.	1845				780		60			615	2070	5370
(4)	725-20.54	CABLE (1/C #8 AWG.)	L.F.			2565	2295	2610	2805	2150	3630	3735	3660		23450
(4)	725-20.56	CABLE (1/C #4 AWG.)	L.F.	960		1710	1775		1275						5720
(4)	725-20.57	CABLE (1/C #2 AWG.)	L.F.					1380		1045		895	1130	1230	5680
(4)	725-20.59	CABLE (1/C #2/0 AWG.)	L.F.								2820	3195			6015
(4)	725-20.60	CABLE (1/C #3/0 AWG.)	L.F.							5450					5450
(4)	725-20.61	CABLE (1/C #4/0 AWG.)	L.F.							4395		4495			8890
(4)	725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH										1		1
(4)	725-21.03	DYNAMIC MESSAGE SIGN (OVER-SHOULDER)	EACH				1	1		1		1			4
(4)	725-21.11	NETWORK SWITCH (TYPE A)	EACH	1		1	1	1	1	2	1	2	2	1	13
(4)	725-21.32	CAT 6 CABLE	L.F.				85	165		220		370	120		960
(4) (9)	725-21.43	DEMARCATON SITE (OVERHEAD)	EACH	1			1			1		1			4
(4)	725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1	2	2	1	3	1	3	2	1	17
(4) (6) (7)	725-22.22	CONDUIT BANK (TYPE 2)	L.F.				60	125							185
(4) (6) (7)	725-22.23	CONDUIT BANK (TYPE 3)	L.F.	335		310	55	250	35	765	50	900	245	220	3165
(4) (6) (7)	725-22.32	CONDUIT BANK BORED (TYPE 2)	L.F.					60							60
(4) (6) (7)	725-22.33	CONDUIT BANK BORED (TYPE 3)	L.F.	190			215		200	260	60	365		160	1450
(4) (6) (7)	725-22.71	2 IN CONDUIT	L.F.	420		690	740	1085	745	225	1240	185	1250	585	7165
(4) (6) (7)	725-22.72	2 IN CONDUIT BORED	L.F.	135		165	90	60	160	110	155		55	65	995
(4) (6) (7)	725-22.74	2 IN CONDUIT W/ BANK	L.F.					265		585	110	510	35	350	1855
(4) (6) (7)	725-22.78	3 IN CONDUIT	L.F.							690		1540	15		2245
(4) (6) (7)	725-22.80	3 IN CONDUIT W/ BANK	L.F.					15		1110		120			1245
(4) (6) (7)	725-22.81	3 IN CONDUIT BORED W/ BANK	L.F.							250		255			505
(4)	725-23.01	ITS CABLE MARKER	EACH	12		14	13	14	12	26	15	21	16	10	153
(4)	725-23.21	FIBER OPTIC DROP CABLE (12 F)	L.F.	1110	1180	585	650	835	2475	1710	2685	2150	560	555	14495
(4)	725-23.26	FIBER OPTIC CLOSURE (12F)	EACH	1				1	2		1		1	1	7
(4)	725-23.28	FIBER OPTIC SPLICE FUSION	EACH	8				8	18		18		8	4	64
(4)	725-24.02	CABINET (TYPE B)	EACH	1		1	1	1	1	2	1	2	2	1	13
(4)	725-24.03	CABINET (TYPE C)	EACH				1	1		1		1			4
(4) (5) (12)	730-23.29	PEDESTAL POLE (TYPE B)	EACH	4		6	6	7	6	6	5	6	6	4	56
(4)	740-11.02	TEMPORARY SEDIMENT TUBE (12 INCH)	L.F.	150		210	210	270	210	240	180	240	240	150	2100
(10) (11)	803-01	SODDING (NEW SOD)	S.Y.	2		3	3	4	3	3	3	3	3	2	28



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
QUANTITIES
BY SHEET