

Index of Sheets

SHEET NO.	SHEET NAME
1 ...	TITLE SHEET
2 ...	ESTIMATED ROADWAY QUANTITIES
3 ...	TYPICAL SECTIONS
4 ...	GENERAL NOTES
4A ...	SPECIAL NOTES
5 ...	TRAFFIC DETECTION LOOP DETAIL
6 ...	SPECIAL TRAFFIC COUNTER SPECIFICATIONS

Standard Roadway Drawings

SHEET NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS AND PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY AND FREEWAY INTERCHANGES
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-WZ-10	04-04-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-21	03-15-11	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
T-SG-2	07-29-04	LOOP LEAD-INS CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS

BEGIN PROJECT L.M. 0.00
(DECATUR CO. LINE, MM 126)

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT C.E. MANAGER 1 TABITHA CAVANESS, P.E., REG. 4

DESIGNER ROSE WILLIAMS/WILLIE COLEMAN, REG. 4 CHECKED BY WILLIE COLEMAN, REG. 4

P.E. NO. 98043-4175-04
PIN: 083950.02

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

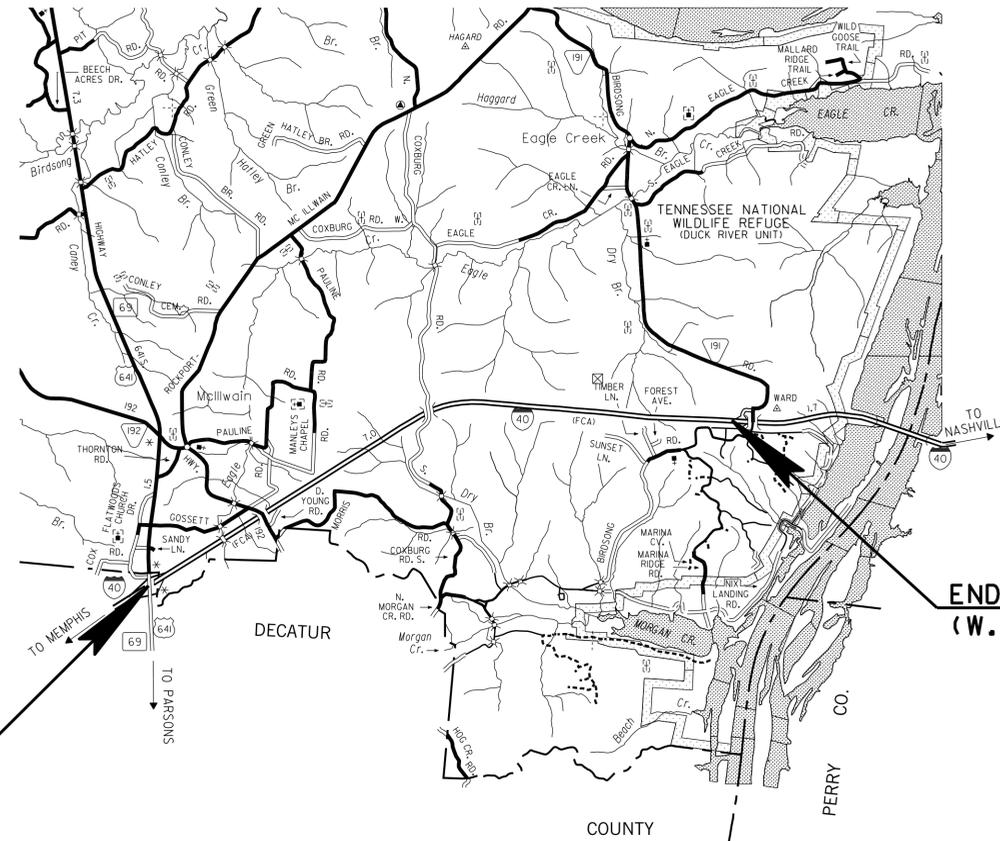
BENTON COUNTY

I - 40

FROM: L.M. 0.00 (DECATUR CO. LINE, MM 126)
TO: L.M. 6.51 (W. OF S.R. 191, MM 132.51)

RESURFACING

STATE HIGHWAY NO. I-40 F.A.H.S. NO. N.A.



END PROJECT L.M. 6.51
(W. OF S.R. 191, MM 132.51)

SCALE: 0 1 2 3 MILES

PROJECT LENGTH 6.51 MILES
TOTAL LANE MILES RESURFACED 26.04 MILES

TENN.	YEAR 2014	SHEET NO. 1
FED. AID PROJ. NO.	NH-I-40-2(95)	
STATE PROJ. NO.	03001-8195-44	



PROJECT SITE



**UNOFFICIAL
SET
NOT FOR
BIDDING**



APPROVED: Paul D. Decker
CHIEF ENGINEER

DATE: _____

APPROVED: [Signature]
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

TRAFFIC DATA
ADT (2014) 35478

APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	NH-1-40-2(95)	2

FOOTNOTES

- ① INCLUDES 85 TONS FOR BREAKOUT, AND 257 TONS FOR TERMINI SHORTAGE OF W/B LANES.
- ② FOR REPLACEMENT OF QUANTITY REMOVED UNDER ITEM 202-03.01 ONLY.
- ③ INCLUDES 3641 TONS FOR LONGITUDINAL JOINT REPAIR.
- ④ 200 TONS FOR SPOT LEVELING AND 29 TONS FOR RAMPS ONLY.
- ⑤ SEE SPECIAL PROVISION NO. 407G FOR MATERIAL TRANSFER DEVICE.
- ⑥ INCLUDES 1245 TONS FOR GORE AREAS, ACCELERATION LANE, TERMINI SHORTAGE OF W/B LANES AND ON/OFF RAMPS.
- ⑦ SEE SPECIAL PROVISION NUMBER 411TLD.
- ⑧ SEE SPECIAL PROVISION NUMBER 411B.
- ⑨ INCLUDES 1586 TONS FOR GORE AREAS, ACCELERATION LANE, TERMINI SHORTAGE OF W/B LANES AND ON/OFF RAMPS.
- ⑩ INCLUDES 1.00 MILE FOR TERMINI SHORTAGE OF W/B LANES.
- ⑪ FOR LONGITUDINAL JOINT REPAIR.
- ⑫ INCLUDES 28844 SQ. YD. FOR GORE AREAS, ACCELERATION LANE, TERMINI SHORTAGE OF W/B LANES AND ON/OFF RAMPS.
- ⑬ QUANTITY INCLUDES

4	ROAD WORK NEXT 7 MI.	(G20-1)	(48" X 24")
4	END ROAD WORK	(G20-2)	(48" X 24")
68	UNEVEN LANES	(W8-11)	(48" X 48")
4	ROAD WORK AHEAD	(W20-1)	(48" X 48")
4	ROAD WORK 1 MILE	(W20-1)	(48" X 48")
4	ROAD WORK 1500 FT.	(W20-1)	(48' X 48")
4	ROAD WORK 1000 FT.	(W20-1)	(48" X 48")
4	ROAD WORK 500 FT.	(W20-1)	(48" X 48")
4	ONE LANE ROAD AHEAD	(W20-4)	(48" X 48")
4	FRESH OIL	(W21-2)	(48" X 48")
26	SHOULDER WORK	(W21-5)	(48" X 48")
8	MOTORCYCLE GROOVE SIGN	(TN-64)	(48" X 48")
4	RIGHT LANE CLOSED 1,500 FT.	(W20-5)	(48" X 48")
4	RIGHT LANE CLOSED 1,000 FT.	(W20-5)	(48" X 48")
4	RIGHT LANE CLOSED 500 FT.	(W20-5)	(48" X 48")
4	LEFT LANE CLOSED 1,500 FT.	(W20-5)	(48" X 48")
4	LEFT LANE CLOSED 1,000 FT.	(W20-5)	(48" X 48")
4	LEFT LANE CLOSED 500 FT.	(W20-5)	(48" X 48")
4	MERGE LEFT	(W4-2)	(48" X 48")
4	MERGE RIGHT	(W4-2)	(48" X 48")

THIS CONSTRUCTION SIGNING IS TO BE AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

- ⑭ FOR FINAL PAVEMENT MARKING ONLY.
- ⑮ FOR USE AS TEMPORARY LINE MARKINGS, INCLUDES 2.00 MILES FOR BREAKOUT, SPOT LEVELING, RAMPS, ACCELERATION LANES, AND REST AREAS ENTRANCE/EXIT LANES.
- ⑯ INCLUDES 3.38 MILES FOR LONGITUDINAL JOINT REPAIR.
- ⑰ FOR FINAL PAVEMENT MARKINGS, INCLUDES 2.83 MILES RAMPS, ACCELERATION LANES, TERMINI STORAGE OF THE W/B LANES AND REST AREA ENTRANCE/EXIT LANES.
- ⑱ CONTRACTOR SHALL USE THE RIBBON METHOD FOR APPLICATION.
- ⑳ INCLUDES AN EXTRA 160' (20' PER LOOP) THAT IS TO REMAIN IN PULL BOX FOR INSTALLATION BY TRAFFIC COUNTER PERSONNEL.

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	03001-8195-44 QUANTITY	NH-1-40-2(95) QUANTITY	TOTAL QUANTITY
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	125	0	125
203-06	WATER	M.G.	28	0	28
① 303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (C OR D)	TON	3787	0	3787
②③ 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	3699	0	3699
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	340	0	340
④⑤ 411-03.10	ACS MIX (PG76-22) GRADING D	TON	229	0	229
⑤⑥⑦⑧ 411-03.12	ACS MIX (PG64-22) THIN LIFT D ASPHALT	TON	13907	0	13907
⑤⑨ 411-03.15	ASP CEM (PG76-22) FOR OGFC MIX	TON	1078	0	1078
⑤⑨ 411-03.16	AGGREGATE FOR OGFC MIX	TON	16893	0	16893
⑩ 411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	0	27.04	27.04
⑪ 415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	3324	0	3324
⑫ 415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	327181	0	327181
712-01	TRAFFIC CONTROL	LS	1	0	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	810	0	810
712-05.03	WARNING LIGHTS (TYPE C)	EACH	100	0	100
⑬ 712-06	SIGNS (CONSTRUCTION)	S.F.	2600	0	2600
712-08.03	ARROW BOARD (TYPE C)	EACH	4	0	4
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2	0	2
716-01.23	Snowplowable Pvmr Mrkrs (Bi-Dir) (2 Color)	EACH	0	975	975
716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	975	0	975
⑭ 716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	0	122	122
⑮ 716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	63.97	0	63.97
⑯ 716-12.02	ENHANCED FLATLINE THERMO PVMR MRKNG (6IN LINE)	L.M.	0	32.13	32.13
⑭ 716-12.03	ENHANCED FLATLINE THERMO PVMR MRKNG (8IN BARRIER LINE)	L.F.	0	1718	1718
⑭ 716-12.05	ENHANCED FLATLINE THERMO PVMR MRKNG (6IN DOTTED LINE)	L.F.	0	565	565
717-01	MOBILIZATION	LS	1	0	1
⑰ 730-03.21	INSTALL PULL BOX (TYPE B)	EACH	2	0	2
⑰ 730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	24	0	24
⑰ 730-14.02	SAW SLOT	L.F.	300	0	300
⑳ 730-14.03	LOOP WIRE	L.F.	1220	0	1220

TRAFFIC COUNTER TABULATION				
INTERSECTION	LOOP WIRE 730-14.03 (LIN. FT.)	SAW SLOT 730-14.02 (LIN. FT.)	2" CONDUIT (PVC) 730-12.02 (LIN. FT.)	INSTALL PULL BOX (TYPE B) 730-03.21
I-40 @ L.M. 1.996 (APPROX.)	1220	300	24	2
TOTALS	1220	300	24	2
* ANY QUESTIONS PLEASE CONTACT STANLEY DUNN @ 615-350-4571				

**UNOFFICIAL
SET
NOT FOR
BIDDING**

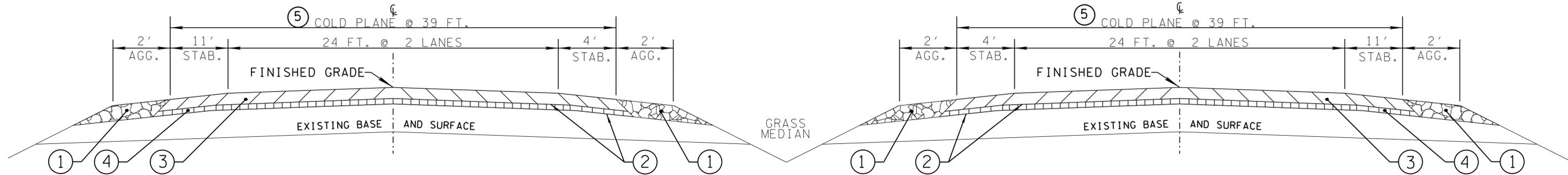


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**ESTIMATED
ROADWAY
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	NH-1-40-2(95)	3

TYPICAL SECTION



FROM: L.M. 0.00 TO L.M. 6.51

①	MINERAL AGGREGATE BASE @ 2"± THICK FOR SHOULDERS ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D"
②	TACK COAT (TC) (FOR MILLING AND COLD PLANE) ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.07 GAL./S.Y. FOR GENERAL USE) (AT 0.10 GAL./S.Y. FOR MILLING-COLD PLANE)
③	ASPHALTIC CONCRETE (ACS) @ 1.25" ± THICK (APPROX. 110.00 ± LBS./S.Y.) ITEM 411-03.15 ASPHALT CEMENT (PG76-22) FOR OGFC MIX ITEM 411-03.16 AGGREGATE FOR OGFC MIX
④	ASPHALTIC CONCRETE SURFACE (ACS) @ 0.80"± THICK (APPROX. 85.00 LBS./S.Y.) ITEM 411-03.12 ACS MIX (PG64-22) THIN LIFT D ASPHALT
⑤	COLD PLANING @ 2.00"± THICK (APPROX. 210.00 LBS./S.Y.) ITEM 415-01.02 COLD PLANING BITUMINOUS PAVEMENT
⑥	BITUMINOUS BASE COURSE (BLACK BASE) @ 8"± THICK (APPROX. 920.0 LBS./S.Y.) ITEM 307-01.01 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING "A" (THIS ITEM IS TO BE USED FOR BREAKOUT ONLY)
⑦	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25"± THICK (APPROX. 132.50 LBS./S.Y.) ITEM 411-03.10 ACS MIX (PG76-22) GRADING "D" (THIS ITEM IS TO BE USED FOR SPOT LEVELING AND RAMPS ONLY)

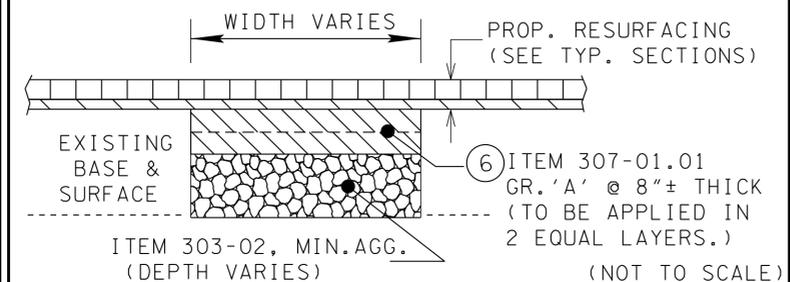
BRIDGE NOTE

THE CONTRACTOR SHALL:
PAVE ACROSS EXISTING STRUCTURES WITH PLANS
QUANTITIES ONLY @ L.M. 0.87 (RT/LT) (38')

VERTICAL CLEARANCES

NOTICE TO CONTRACTOR:
EBL/WBL @ L.M. 1.38 AND L.M. 3.51

DETAIL OF BREAKOUT



**UNOFFICIAL
SET
NOT FOR
BIDDING**

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**TYPICAL
SECTIONS**
(NOT TO SCALE)

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	NH-1-40-2(95)	4

GENERAL NOTES

GRADING

ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

UTILITIES

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

MISCELLANEOUS

NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20 PAINTED PAVEMENT MARKINGS (6" LINE), L.M.

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATIONS IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

PAVING

THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

RESURFACING

IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE.. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**GENERAL
NOTES**

SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	NH-1-40-2(95)	4A

SURFACE IS TO BE CROWNED AS DIRECTED BY THE ENGINEER.

ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. COST TO BE INCLUDED IN ITEM NO. 712-06.

IF THE CONTRACTOR ELECTS TO UTILIZE SIGN POST ANCHORS (STUBS) FOR SIGN ERECTION, THESE SHALL BE REMOVED WHEN THE SIGNS ARE REMOVED TO AVOID FUTURE DAMAGE TO MOWERS OR OTHER MACHINERY.

UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PAINTED MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-05.20.

UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PLASTIC MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-12.02.

ITEM 303-02 TO BE PLACED BEFORE PLACING SURFACING MATERIAL.

THE CONTRACTOR WILL BE REQUIRED TO CLEAN AND BLADE GRASS FROM SHOULDERS BEFORE PLACING ITEM 303-02. MATERIAL BLADED FROM SHOULDERS TO BE PICKED UP AND DISPOSED OF AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN ITEM 303-02.

MATERIAL TRANSFER DEVICE SHALL BE USED FOR ALL MIXES.

ONLY 4 ARROW BOARDS WILL BE PAID FOR DURING THE LIFE OF THIS PROJECT. IF THE CONTRACTOR'S WORK PHASES REQUIRED ADDITIONAL ARROW BOARDS, THEIR COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

THE INSIDE SHOULDERS WILL BE PAVED CONCURRENTLY WITH THE INSIDE TRAFFIC LANE.

THE SHOULDER WILL BE PAVED CONCURRENTLY WITH THE TRAFFIC LANE.

THIS IS A NIGHT JOB ALL LANES OPEN TO TRAFFIC FROM 7:00 P.M. TO 6:00 A.M. MONDAY THRU FRIDAY.

THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE BITUMINOUS MATERIAL DESIGNATED TO RESTORE THE COLD PLANING AREA WILL BE PLACED WITHIN 48 HOURS OF THE COMMENCEMENT OF COLD PLANING OPERATIONS. COLD PLANING OPERATIONS WILL BE LIMITED TO AN AREA EQUAL TO THAT WHICH CAN BE COVERED WITH BITUMINOUS MATERIAL WITHIN THE TIME LIMITS SPECIFIED. EVEN IF COLD PLANING OPERATIONS MUST BE SUSPENDED UNTIL PAVING CATCHES UP.

THE CONTRACTOR WILL BE REQUIRED TO PAVE IMMEDIATELY BEHIND COLD PLANING OPERATIONS TO ENSURE THAT THE MILLED SURFACE WILL BE COVERED WITH BITUMINOUS/CEMENT THE SAME WORK DAY, AND ABIDE BY DROP-OFF POLICY.

RESURFACING

TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITION ONLY:

- A: THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/4" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.
- B: THE SURFACE SHALL BE SWEEPED AND CLEANED ON ALL LOOSE MATERIALS.
- C: THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.
- D: THE MILLED SURFACE SHALL BE PAVED WITHIN 48 HOURS.
- E: RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.
- F: ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGN (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.
- G: IF RAVELING OR DETERIORATION OF THE MILLED SURFACE IS OCCURRING WHILE TRAFFIC IS DRIVING ON THE MILLED SURFACE, THEN THIS PRACTICE WILL NOT BE ALLOWED AND PAVING SHALL BE COMPLETED IMMEDIATELY AFTER MILLING.
- H: ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL

- A. DIFFERENCE IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC. CAUSED BY BASE, PAVING OR RESURFACING:
 - 1. DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES.
 - a. WARNING SIGNS, UNEVEN PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
 - b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER, THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

SPECIAL EROSION PREVENTION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS, BEFORE CLEANING OUT OR REMOVAL/REPLACEMENT OF DITCHES, SIDE DRAINS, AND CROSS DRAINS, TO ENSURE THAT THE DRAINAGE FEATURES/ WATERCOURSES ARE NOT STREAMS OR WETLANDS. IF THE CONTRACTOR/ TDOT INSPECTOR IS UNSURE WHETHER THE DRAINAGE FEATURES ARE STREAMS OR WETLANDS, THE INSPECTOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION TO OBTAIN THE APPROPRIATE PERMITS.

DUE TO THE TYPE OF WORK IT IS OUR UNDERSTANDING THAT THE PROJECT WILL NOT DISTURB MORE THAN ONE ACRE. IF THE DISTURBED AREA IS MORE THAN ONE ACRE, PLEASE CONTACT THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION BECAUSE A NPDES PERMIT WILL BE REQUIRED.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

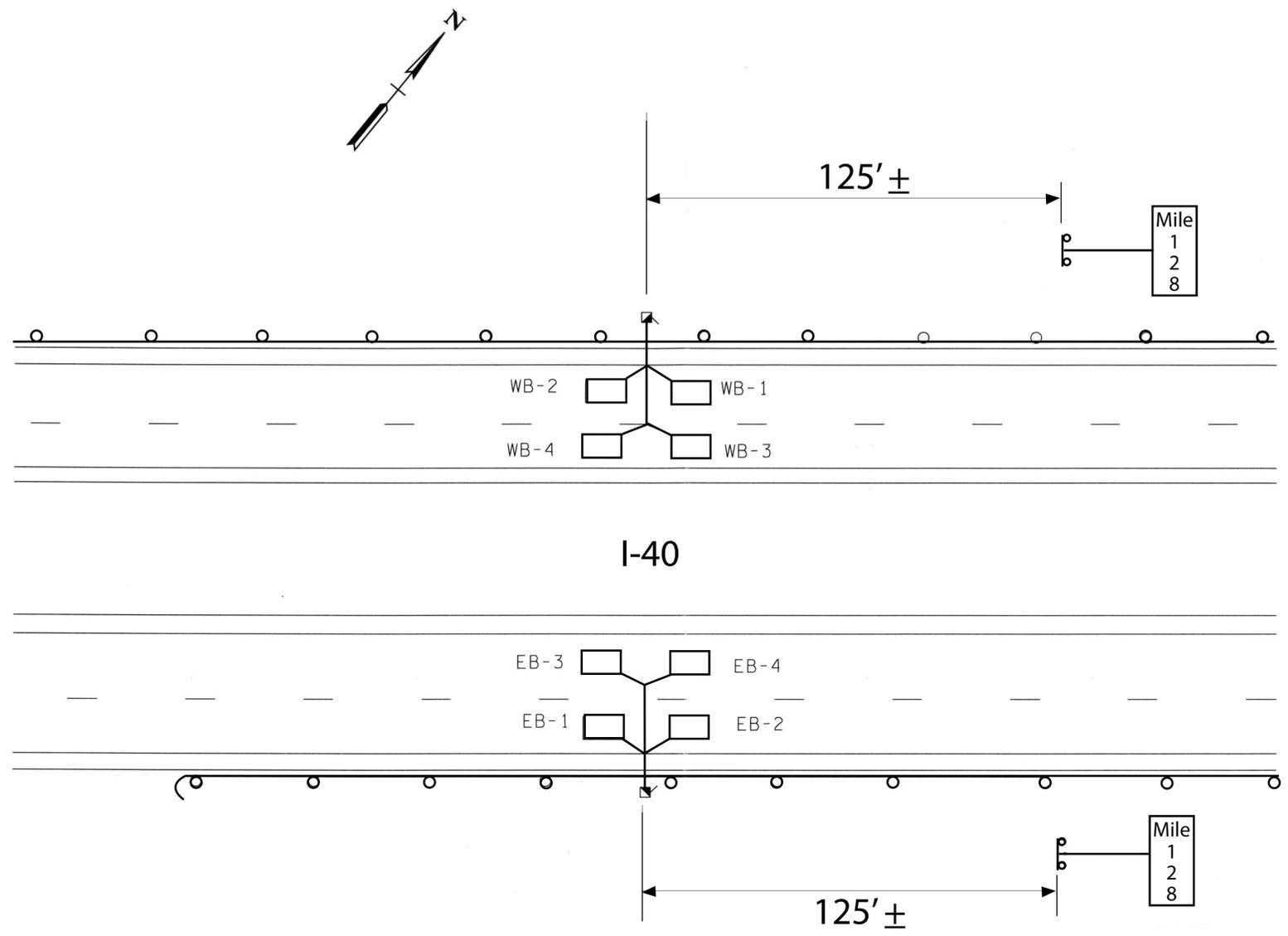
SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

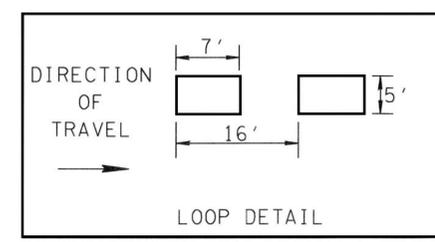
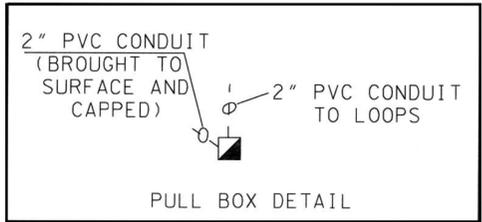
**SPECIAL
NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2014	NH-I-40-2(95)	5
.	.	.	.
.	.	.	.



I-40 Benton County at L. M. 1.996 (Approx.)

NOT TO SCALE



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC DETECTION
LOOPS DETAIL

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	NH-1-40-2(95)	6

SPECIAL TRAFFIC COUNTER SPECIFICATIONS

THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL RELATED EQUIPMENT. THE CONTRACTOR SHALL MAKE SURE EACH DETECTION LOOP IS OPERATIONAL AT THE COMPLETION OF THE PROJECT. THE STATE'S PROJECT PLANNING DIVISION'S TRAFFIC COUNTER PERSONNEL WILL MAKE THE TRAFFIC COUNTER FULLY OPERATIONAL.

ALL LOOPS SHALL BE FIVE FEET BY SEVEN FEET (5' X 7') AND TYPICAL IN SIZE WITH THREE (3) TURNS OF LOOP WIRE.

LEAD WIRES TO ALL LOOPS SHALL BE RUN THROUGH 2-INCH CONDUIT FROM THE SHOULDER OF THE ROADWAY TO AN IN-GROUND PULL BOX. THE PULL BOX SHOULD BE LOCATED AS CLOSE AS POSSIBLE AND BEHIND THE GUARDRAIL. LOOP LEAD-INS AND CONDUIT SHALL BE MARKED ON THE ROADWAY SURFACE SO THAT ANY GUARDRAIL POST INSTALLATION OR OTHER CONSTRUCTION WILL NOT DISTURB THIS UNDERGROUND WORK.

THE EXTRA TWENTY FEET (20') OF LOOP WIRE FOR EACH OF THE LOOPS SHALL BE STORED IN THE PULL BOX FOR FUTURE INSTALLATION BY TRAFFIC COUNTER PERSONNEL. A PULL STRING SHALL BE INCLUDED IN THE STUB OUT CONDUIT.

EACH LOOP DETECTOR LEAD-IN SHALL BE MARKED WITH LANE IDENTIFICATION, DENOTING THE LANE AND POSITION IN THE LANE FOR EACH LOOP (SUCH AS EB-1 FOR EASTBOUND 1, ECT.).

FOR QUESTIONS CONCERNING ANY OF THE INSTALLATION OF THE COUNTER EQUIPMENT, PLEASE CONTACT STANLEY DUNN AT 615-350-4571 OR AT STANLEY.DUNN@TN.GOV. CONTRACTOR SHALL NOTIFY STANLEY DUNN TO REPORT THAT WORK HAS BEEN COMPLETED SO THAT HE CAN FINISH THE INSTALLATION.

THE CONTRACTOR SHALL SUPPLY STANLEY DUNN WITH THE X/Y COORDINATED (BASED ON WGS COORDINATES) OF EACH PULL BOX.

LOCATE PULL BOX APPROX. 1' BEHIND THE GUARDRAIL BETWEEN THE POST.

SPECIAL TRAFFIC

EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNAL ITEMS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**SPECIAL
TRAFFIC COUNTER
SPECIFICATIONS**