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Standard Roadway Drawings

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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
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S-GRT-2		TYPE 38 GUARDRAIL TERMINAL
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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
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

FAYETTE COUNTY

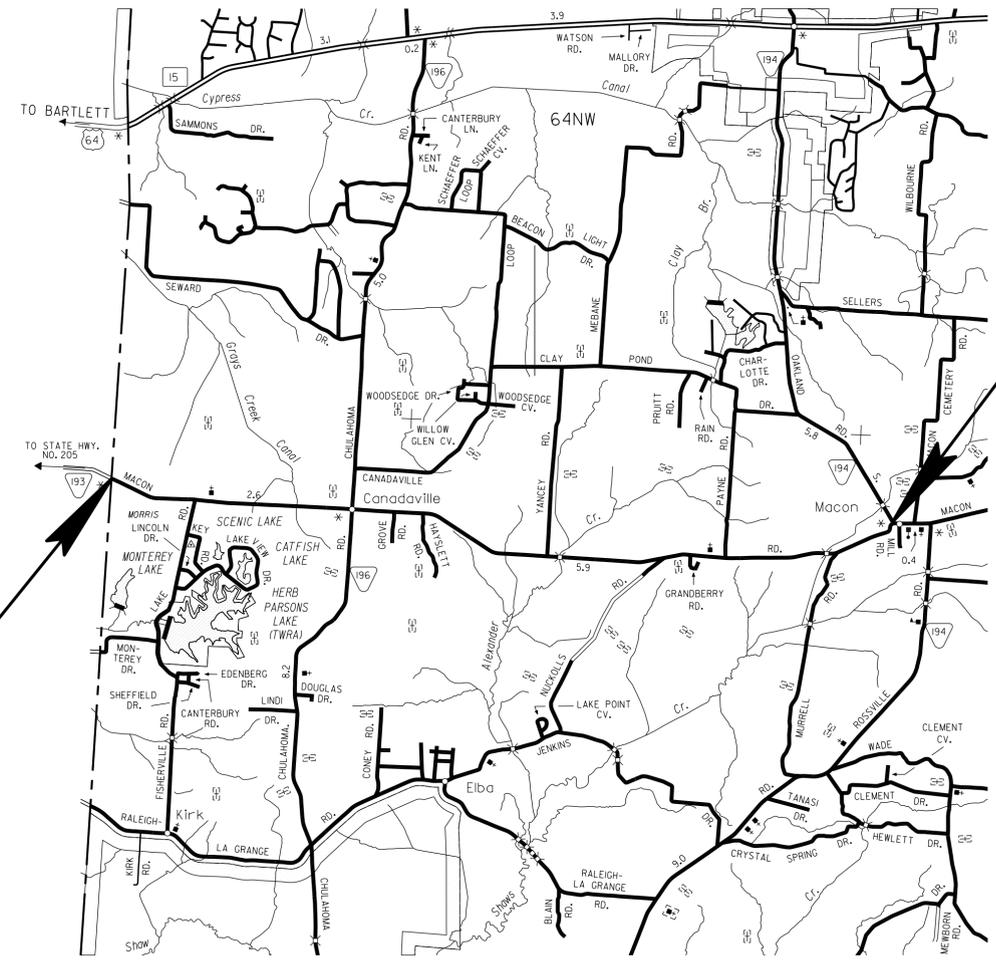
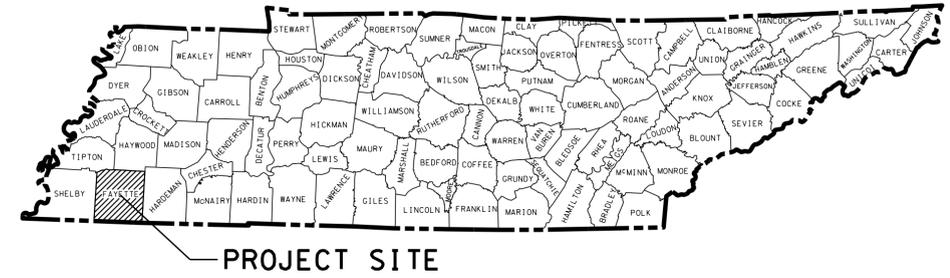
S.R. 193

FROM: L.M. 0.00 (SHELBY CO. LINE)
TO: L.M. 8.51 (JCT. S.R. 194)

RESURFACING

STATE HIGHWAY NO. 193 F.A.H.S. NO. N.A.

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	HSIP-193(10)	
STATE PROJ. NO.	24029-4206-04	



BEGIN PROJECT L.M. 0.00
(SHELBY CO. LINE)

END PROJECT L.M. 8.51
(JCT. S.R. 194)

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 DEREK LINK, REG. 4 CHECKED BY ANDREW NIPP/RAQUEL COOK, REG. 4
 P.E. NO. 98043-4283-04
 PIN: 117776.00



PROJECT LENGTH 8.51 MILES
TOTAL LANE MILES RESURFACED 17.02 MILES

TRAFFIC DATA	
ADT (2014)	2200

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

APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	HSIP-193(10)	2

FOOTNOTES

ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	24029-4206-04 QUANTITY	HSIP-193(10) 24029-3206-94 QUANTITY	TOTAL QUANTITY
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	469		469
203-06	WATER	M.G.	20		20
① 303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING C OR D	TON	2563		2563
② 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	216		216
③ 307-01.15	ASC MIX (PG64-22) (BPMLC-HM) GRADING CS	TON	2472		2472
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	81		81
⑥④ 411-01.10	ACS MIX(PG64-22) GRADING D	TON	150		150
⑦⑥⑤ 411-03.13	ACS MIX(PG70-22) THIN LIFT D ASPHALT	TON	4739		4739
⑧ 415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	107467		107467
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	30		30
⑨ 705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH		4	4
712-01	TRAFFIC CONTROL	LS	0.5		0.5
⑩ 712-06	SIGNS (CONSTRUCTION)	S.F.	1616		1616
713-11.22	U POST SLIP BASE	EACH		3	3
713-16.20	SIGNS (BICYCLE, W11-1)	EACH		3	3
713-16.21	SIGNS (SHARE THE ROAD, W16-1P)	EACH		3	3
⑪ 716-01.10	SNOWPLOWABLE REFLECTIVE MARKER	EACH		610	610
⑫⑪ 716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.		71	71
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.		94	94
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH		4	4
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH		2	2
716-03.03	PLASTIC WORD PAVEMENT MARKING (STOP AHEAD)	EACH		3	3
⑬ 716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	65.075		65.075
⑭ 716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.		33.413	33.413
⑮ 716-13.03	SPRAY THERMO PVMT MRKNG (60 mil) (8IN BARRIER LINE)	L.F.		1182	1182
⑯ 716-13.05	SPRAY THERMO PVMT MRKNG (60 mil) (6IN DOTTED LINE)	L.F.		40	40
717-01	MOBILIZATION	LS	0.5		0.5

- ① INCLUDES 318 TONS FOR BREAKOUT.
- ② FOR REPLACEMENT OF QUANTITY REMOVED UNDER ITEM 202-03.01 ONLY.
- ③ INCLUDES 68 TONS FOR COUNTY ROADS AND EXTRA-WIDTH PAVEMENT.
- ④ FOR SPOT LEVELING ONLY. APPROX. 1.25"± THICK @ 132.5 LBS/S.Y.
- ⑤ INCLUDES 307 TONS FOR COUNTY ROADS, PRIVATE DRIVES, BUSINESS FRONTS, AND EXTRA-WIDTH PAVEMENT.
- ⑥ SEE SPECIAL PROVISION NO. 407G FOR MATERIAL TRANSFER DEVICE.
- ⑦ SEE SPECIAL PROVISION NO. 411TLD FOR THIN LIFT FRICTION COURSE (D) AND SPECIAL PROVISION NO. 411C FOR RIDEABILITY SPECIFICATIONS.
- ⑧ INCLUDES 2932 S.Y. FOR COUNTY ROADS AND EXTRA-WIDTH PAVEMENT.
- ⑨ FOR UPGRADE OF EXISTING ANCHORS AT ALL STRUCTURE LOCATIONS IN PROJECT LIMITS. THE COST OF REMOVAL OF EXISTING GUARDRAIL AND ANCHORS TO BE INCLUDED IN THIS ITEM.
- ⑩ QUANTITY INCLUDES
- | | | | |
|----|------------------------|----------|-------------|
| 2 | ROAD WORK NEXT 8.5 MI. | (G20-1) | (48" X 24") |
| 2 | END ROAD WORK | (G20-2) | (48" X 24") |
| 46 | UNEVEN LANES | (W8-11) | (48" X 48") |
| 17 | ROAD WORK AHEAD | (W20-1) | (48" X 48") |
| 2 | ROAD WORK 1500 FT. | (W20-1) | (48" X 48") |
| 2 | ROAD WORK 1000 FT. | (W20-1) | (48" X 48") |
| 2 | ROAD WORK 500 FT. | (W20-1) | (48" X 48") |
| 2 | ONE LANE ROAD AHEAD | (W20-4) | (48" X 48") |
| 2 | FLAGGER AHEAD | (W20-7a) | (48" X 48") |
| 2 | FRESH OIL | (W21-2) | (48" X 48") |
| 18 | SHOULDER WORK | (W21-5) | (48" X 48") |
| 6 | MOTORCYCLE GROOVE SIGN | (TN-64) | (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.

- ⑪ FOR FINAL PAVEMENT MARKING ONLY.
- ⑫ THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- ⑬ FOR USE AS TEMPORARY LINE MARKINGS ONLY, INCLUDES 31.913 L.M. OVER COLD PLANED SURFACE AND 1.25 L.M. FOR BREAKOUT, SPOT LEVELING, COUNTY ROADS AND INTERSECTIONS.
- ⑭ INCLUDES 1.5 L.M. FOR BREAKOUT, SPOT LEVELING, COUNTY ROADS, AND INTERSECTIONS.

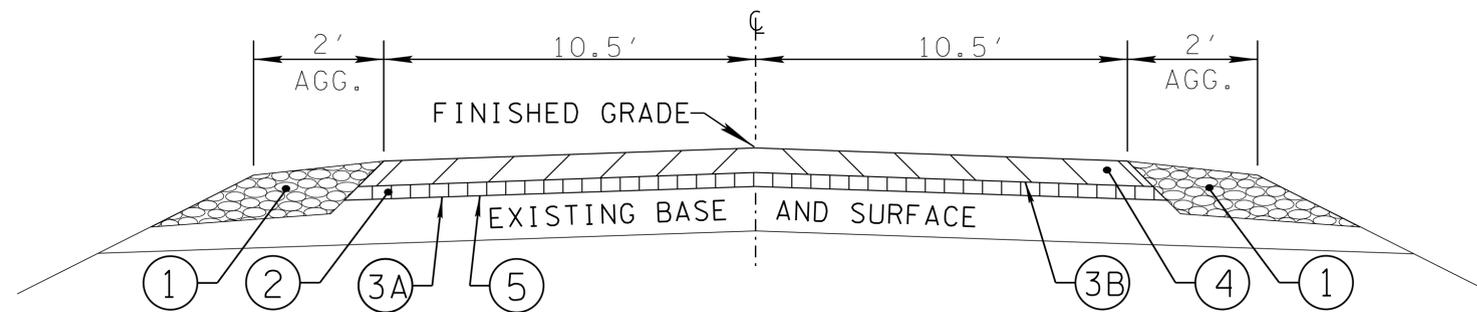
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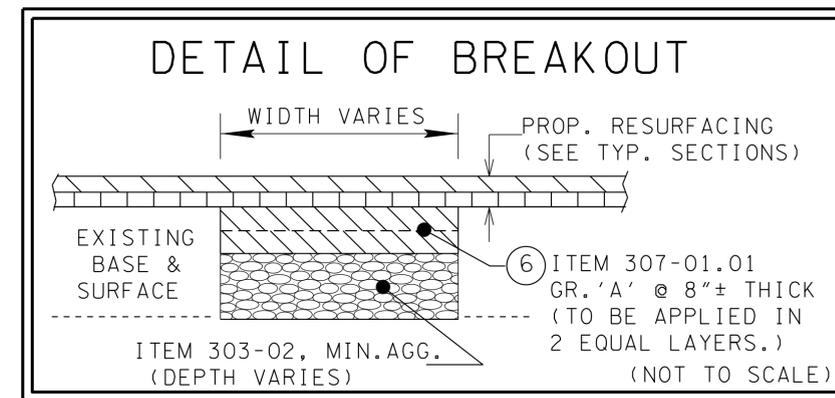
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**ESTIMATED
ROADWAY
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	HSIP-193(10)	3



TYPICAL SECTION
FROM: L.M. 0.00 TO L.M. 8.51

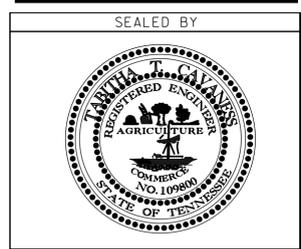


PROPOSED PAVEMENT SCHEDULE	
①	MINERAL AGGREGATE BASE @ 2"± THICK FOR SHOULDERS ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D"
②	BITUMINOUS COURSE (LEVELING) @ 0.40"± THICK (APPROX. 46.00 LBS./S.Y.) ITEM 307-01.15 ACS MIX (PG64-22) (BPMLC-HM) GRADING CS
TACK COAT (TC)	
③A	ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.10 GAL./S.Y.)
③B	ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.07 GAL./S.Y.)
④	ASPHALTIC CONCRETE SURFACE (ACS) @ 0.80"± THICK (APPROX. 85.00 LBS./S.Y.) ITEM 411-03.13 ACS MIX (PG70-22) THIN LIFT D ASPHALT
⑤	COLD PLANING @ 1.25"± THICK (APPROX. 131.25 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)

BRIDGE NOTE

THE CONTRACTOR SHALL:
"LEAVE AS IS" BRIDGES AT
L.M. 4.86 & 7.74 (133')

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SET
NOT FOR
BIDDING**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**TYPICAL
SECTIONS**
(NOT TO SCALE)

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	HSIP-193(10)	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.

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY.

GUARDRAIL

THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPE UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

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

THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

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 DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKINGS (4" LINE), L.M.

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) 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. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN 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.

RESURFACING

WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTIONS.

ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

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.

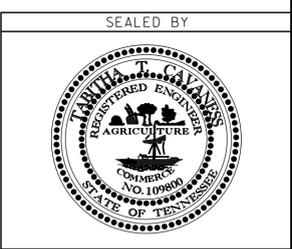
IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS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

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**GENERAL
NOTES**

13-MAR-2014 15:49
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SPECIAL NOTES

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. 716-05.01.

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. 716-13.01.

THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH AND LOCATE ALL NO-PASSING ZONES AS WELL AS PROVIDING THE LAYOUT OF ALL PAVEMENT MARKINGS REQUIRED ON THE PROJECT. THE ESTABLISHMENT OF NO-PASSING ZONES IS TO BE IN ACCORDANCE WITH CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY SIGNS AND MAILBOXES DURING THE OPERATION, ANY SIGNS OR MAILBOXES DAMAGED AS A RESULT OF THE OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

MATERIAL TRANSFER DEVICE SHALL BE USED FOR "D" MIX ONLY.

BUSINESS ENTRANCES WILL BE PAVED THE SHOULDER WIDTH AND ONE PAVER WIDTH PLUS UP TO THREE FEET LIP OFF.

DRIVEWAYS AND FIELD ENTRANCES WILL BE PAVED THE SHOULDER WIDTH PLUS UP TO THREE FEET LIP OFF.

WHEN A PERFORMANCE GRADE (PG) ASPHALT MIX WITH PROPERTIES GREATER THAN THAT OF PG64-22 IS CALLED FOR ON RESURFACING PLANS AND IS THE ONLY ASPHALT GRADE ON THE PROJECT. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE ASPHALT GRADE SHOWN ON THE PLANS OR AN ASPHALT GRADE EQUAL TO OR BETTER THAN PG64-22 FOR DRIVEWAYS AND BUSINESS ENTRANCES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE MATERIAL WILL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THE ASPHALT OR ASPHALT MIX. THE MATERIAL TICKETS SHALL BE MARKED "FOR DRIVEWAYS AND BUSINESS ENTRANCES ONLY" AT THE POINT OF MANUFACTURE.

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 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.

FEATHER "D"-MIX TO ENDS OF BRIDGES THAT ARE NOT TO BE PAVED.

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.

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE CONSTRUCTING EARTH PADS FOR THE TYPE 38 TERMINALS TO ENSURE THAT THE ENVIRONMENTAL FEATURES (STREAMS, WETLANDS, OR SPRINGS) ARE NOT IMPACTED DURING CONSTRUCTION. IF THE CONTRACTOR/TDOT INSPECTOR IS UNSURE WHETHER THE ENVIRONMENTAL FEATURES ARE STREAMS, SPRINGS OR WETLANDS, THE INSPECTOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY OR PERMITS SECTION SO AN ACCURATE DETERMINATION CAN BE ASSESSED. AND DURING CONSTRUCTION OF THE EARTH PADS FOR THE TYPE 38 GUARDRAIL TERMINALS, EXISTING VEGETATION WILL BE REQUIRED TO BE REMOVED FOR THE PROPOSED PAD AND SLOPES. IF DURING THE VEGETATION REMOVAL, ANY TREES GREATER THAN 3 INCHES IN DIAMETER ARE REQUIRED TO BE REMOVED, CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION IMMEDIATELY. DUE TO RECENT MODIFICATION OF THE USFWS STANCE REGARDING THE INDIANA BAT NO TREES >3" DBH SHOULD BE CUT WITHOUT CLEARANCE FROM THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION.

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.

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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	HS1P-193(10)	5

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DEPARTMENT OF TRANSPORTATION

**SPECIAL
NOTES**

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3 ...	TYPICAL SECTIONS
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RD-L-1	10-26-94	STANDARD LEGEND
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

FAYETTE COUNTY

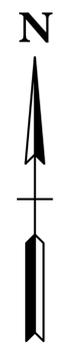
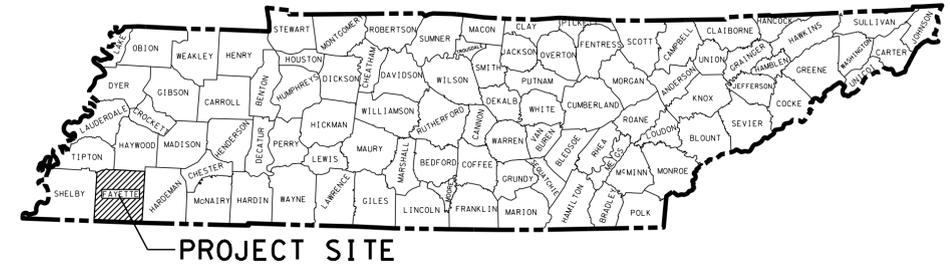
S.R. 196

FROM: L.M. 17.05 (JCT. S.R. 15)
TO: L.M. 25.58 (JCT. S.R. 1)

RESURFACING

STATE HIGHWAY NO. 196 F.A.H.S. NO. N.A.

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	HSIP-196(11)	
STATE PROJ. NO.	24017-4239-04	



**BEGIN PROJECT L.M. 17.05
(JCT. S.R. 15) BEGIN PAVING**

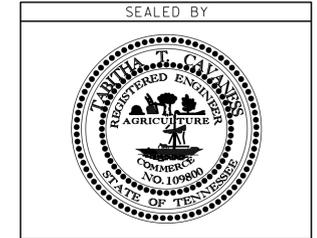
**END PROJECT L.M. 25.58
(JCT. S.R. 1)**

**CSX CROSSING*: 348478C
CENTER POINT RD. L.M. 2.691**

**CSX CROSSING*: 348479J
L.M. 24.78**

**LIMIT OF PAVING L.M. 22.87
(JCT. S.R. 196 & HICKORY WITHE RD.)**

**UNOFFICIAL
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BIDDING**



APPROVED: *Paul D. Decker*
CHIEF ENGINEER

DATE: _____

APPROVED: *John Schroer*
JOHN SCHROER, COMMISSIONER

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 DEREK LINK, REG. 4 CHECKED BY RAQUEL COOK, REG. 4

P.E. NO. 98043-4283-04
PIN: 117783.00



**PROJECT LENGTH 8.53 MILES
TOTAL LANE MILES RESURFACED 11.80 MILES**

TRAFFIC DATA	
ADT (2014)	1340

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	HSIP-196(11)	2

FOOTNOTES

ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	24017-4239-04 QUANTITY	HSIP-196(11) 24017-3239-94 QUANTITY	TOTAL QUANTITY
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	100		100
203-06	WATER	M.G.	12		12
① 303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING C OR D	TON	1492		1492
② 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	46		46
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	26		26
⑤③ 411-02.10	ACS MIX(PG70-22) GRADING D	TON	353		353
⑥⑤④ 411-03.13	ACS MIX(PG70-22) THIN LIFT D ASPHALT	TON	3379		3379
⑦ 415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	3127		3127
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	30		30
⑧ 705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	8		8
712-01	TRAFFIC CONTROL	LS	0.5		0.5
⑨ 712-06	SIGNS (CONSTRUCTION)	S.F.	1520		1520
713-11.22	U POST SLIP BASE	EACH		16	16
713-16.20	SIGNS (BICYCLE, W11-1)	EACH		16	16
713-16.21	SIGNS (SHARE THE ROAD, W16-1P)	EACH		16	16
⑩ 716-01.10	SNOWPLOWABLE REFLECTIVE MARKER	EACH		616	616
716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		22	22
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.		79	79
⑪⑩ 716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH		3	3
716-03.03	PLASTIC WORD PAVEMENT MARKING (STOP AHEAD)	EACH		2	2
716-03.06	PLASTIC WORD PAVEMENT MARKING (SIGNAL AHEAD)	EACH		1	1
⑫ 716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	3.032		3.032
⑬⑩ 716-13.06	SPRAY THERMO PVMT MRKNG (40 mil) (4IN LINE)	L.M.		32.902	32.902
717-01	MOBILIZATION	LS	0.5		0.5

- ① INCLUDES 68 TONS FOR BREAKOUT.
- ② FOR REPLACEMENT OF QUANTITY REMOVED UNDER ITEM 202-03.01 ONLY.
- ③ INCLUDES 253 TONS FOR REPLACEMENT OF COLD PLANNING AT BRIDGES AND 100 TONS FOR SPOT LEVELING.
- ④ INCLUDES 242 TONS FOR COUNTY ROADS, PRIVATE DRIVES, BUSINESS ENTRANCES, AND ADDITIONAL PAVEMENT.
- ⑤ SEE SPECIAL PROVISION NO. 407G FOR MATERIAL TRANSFER DEVICE.
- ⑥ SEE SPECIAL PROVISION NO. 411C FOR RIDEABILITY SPECIFICATIONS AND SPECIAL PROVISION NO. 411TLD FOR PLACEMENT OF THIN LIFT D.
- ⑦ TO BE USED AT BRIDGE AND BRIDGE ENDS ONLY. REFER TO BRIDGE NOTES.
- ⑧ FOR UPGRADE OF EXISTING ANCHORS AT ALL STRUCTURE LOCATIONS IN PROJECT LIMITS. THE COST OF REMOVAL OF EXISTING GUARDRAIL AND ANCHORS TO BE INCLUDED IN THIS ITEM.
- ⑨ QUANTITY INCLUDES
- | | | | |
|----|------------------------|----------|-------------|
| 2 | ROAD WORK NEXT 8.5 MI. | (G20-1) | (48" X 24") |
| 6 | END ROAD WORK | (G20-2) | (48" X 24") |
| 32 | UNEVEN LANES | (W8-11) | (48" X 48") |
| 19 | ROAD WORK AHEAD | (W20-1) | (48" X 48") |
| 6 | ROAD WORK 1500 FT. | (W20-1) | (48' X 48") |
| 6 | ROAD WORK 1000 FT. | (W20-1) | (48" X 48") |
| 6 | ROAD WORK 500 FT. | (W20-1) | (48" X 48") |
| 2 | ONE LANE ROAD AHEAD | (W20-4) | (48" X 48") |
| 2 | FLAGGER AHEAD | (W20-7a) | (48" X 48") |
| 2 | FRESH OIL | (W21-2) | (48" X 48") |
| 12 | SHOULDER WORK | (W21-5) | (48" X 48") |
| 4 | MOTORCYCLE GROOVE SIGN | (TN-64) | (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.

- ⑩ FOR FINAL PAVEMENT MARKING ONLY.
- ⑪ THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- ⑫ FOR USE AS TEMPORARY LINE MARKINGS AT BRIDGE AND BRIDGE ENDS ONLY. INCLUDES 1.0 L.M. FOR BREAKOUT AND SPOT LEVELING.
- ⑬ INCLUDES 1.0 L.M. FOR COUNTY ROADS, AND INTERSECTIONS.

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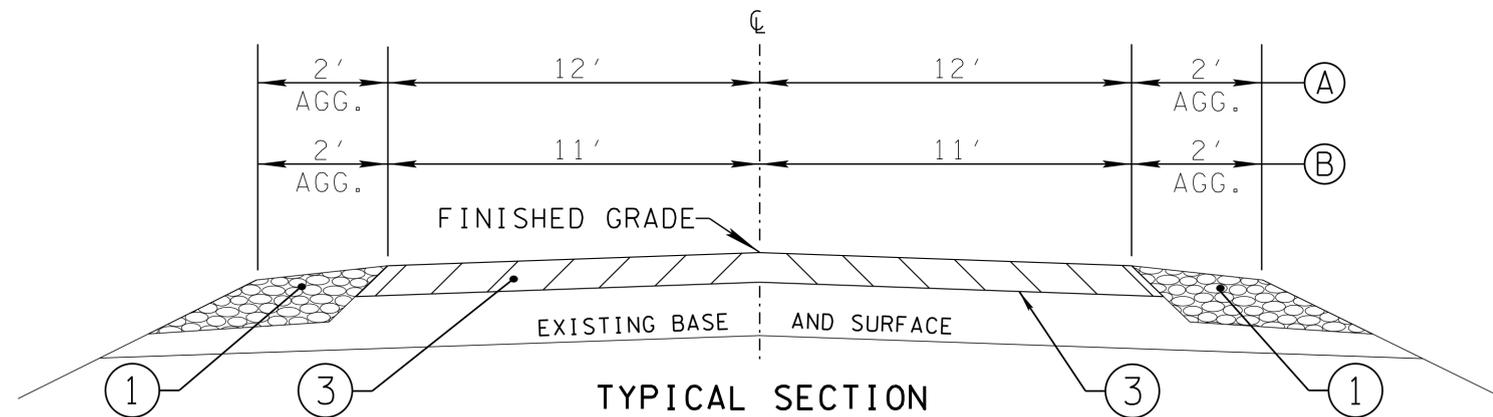
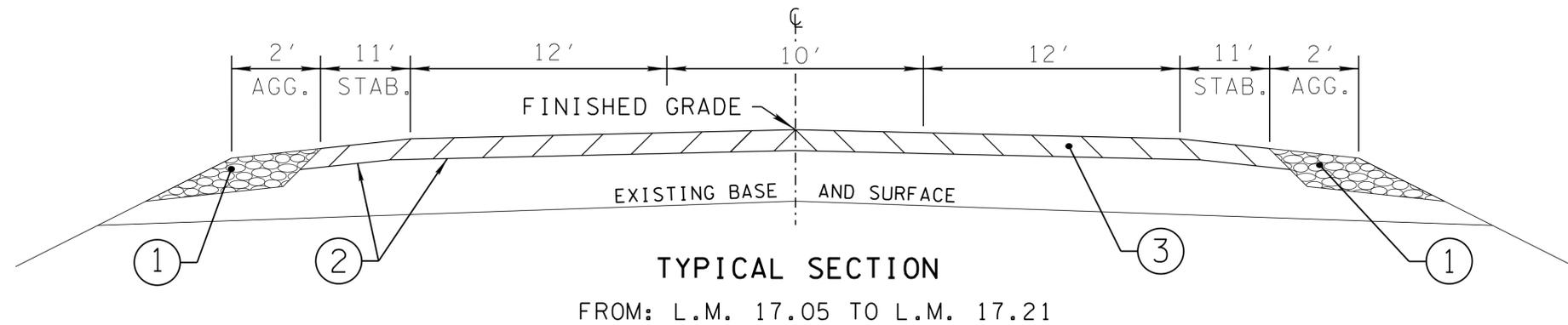
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DEPARTMENT OF TRANSPORTATION

**ESTIMATED
ROADWAY
QUANTITIES**

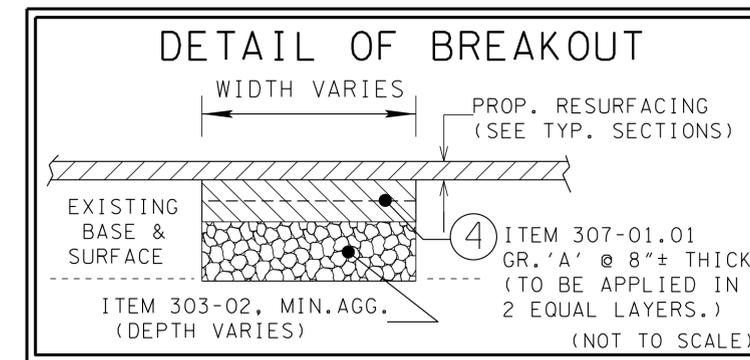
TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	HSIP-196(11)	3



(A) FROM: L.M. 17.21 TO L.M. 18.10
 (B) FROM: L.M. 18.10 TO L.M. 22.87

FROM: L.M. 22.87 TO L.M. 25.58

THIS SECTION SHALL NOT BE PAVED. WORK TO BE ACCOMPLISHED INCLUDES PAVEMENT STRIPING, SPECIALTY MARKINGS, AND PLACEMENT OF SNOWPLOWABLE MARKERS AS DIRECTED BY THE ENGINEER.



PROPOSED PAVEMENT SCHEDULE	
①	MINERAL AGGREGATE BASE @ 2"± THICK FOR SHOULDERS ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D"
②	TACK COAT ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.07 GAL./S.Y.)
③	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
④	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)
	COLD PLANING @ 2.00"± THICK (APPROX. 210.00 LBS./S.Y.) ITEM 415-01.02 COLD PLANING BITUMINOUS PAVEMENT (AT BRIDGE/BRIDGE ENDS ONLY, SEE BRIDGE NOTES)
	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25"± THICK (APPROX. 132.50 LBS./S.Y.) ITEM 411-02.10 ACS MIX (PG70-22) GRADING "D" (USE FOR SPOT LEVELING AND AT BRIDGE/BRIDGE ENDS ONLY, SEE BRIDGE NOTES)

BRIDGE NOTE

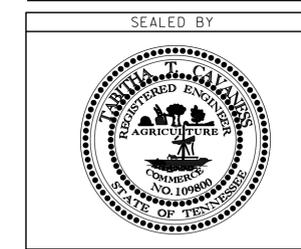
THE CONTRACTOR SHALL:

PAVE ACROSS THE EXISTING STRUCTURE WITH PLANS QUANTITIES @ L.M. 22.50 (40')

LEAVE BRIDGE AS IS @ L.M. 22.22 (22'), BUT COLD PLANE THE ENDS OF THE BRIDGE OUT 300 FT. @ 2.00" DEPTH (600') & REPLACE WITH ITEMS 411-02.10 @ 1.25" DEPTH AND 411-03.12 @ 0.8" DEPTH.

COLD PLANE BRIDGE AND BRIDGE ENDS @ L.M. 22.73 (740'), @ 2" DEPTH & REPLACE WITH ITEMS 411-02.10 @ 1.25" DEPTH AND 411-03.12 @ 0.8" DEPTH

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**TYPICAL
SECTIONS**
(NOT TO SCALE)

3-MAR-2014 15:32 \\JJ04w\01.tdot.state.tn.us\04SHARED\Design\RESURF REG4 PROJ\FAYETTE\SR196\LM17-05\LM25-58\2498LMT-05 TYPICAL.dgn

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.

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY.

GUARDRAIL

THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPE UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

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

THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

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. 716-05.01 PAINTED PAVEMENT MARKINGS (4" LINE), L.M.

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) 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. 716-13.06, SPRAY THERMO PVMT MRKNG (40 mil) (4IN 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.

RESURFACING

WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTIONS.

ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
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**GENERAL
NOTES**

SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
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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. 716-05.01.

THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH AND LOCATE ALL NO-PASSING ZONES AS WELL AS PROVIDING THE LAYOUT OF ALL PAVEMENT MARKINGS REQUIRED ON THE PROJECT. THE ESTABLISHMENT OF NO-PASSING ZONES IS TO BE IN ACCORDANCE WITH CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY SIGNS AND MAILBOXES DURING THE OPERATION, ANY SIGNS OR MAILBOXES DAMAGED AS A RESULT OF THE OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

BUSINESS ENTRANCES WILL BE PAVED THE SHOULDER WIDTH AND ONE PAVER WIDTH PLUS UP TO THREE FEET LIP OFF.

DRIVEWAYS AND FIELD ENTRANCES WILL BE PAVED THE SHOULDER WIDTH PLUS UP TO THREE FEET LIP OFF.

WHEN A PERFORMANCE GRADE (PG) ASPHALT MIX WITH PROPERTIES GREATER THAN THAT OF PG64-22 IS CALLED FOR ON RESURFACING PLANS AND IS THE ONLY ASPHALT GRADE ON THE PROJECT. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE ASPHALT GRADE SHOWN ON THE PLANS OR AN ASPHALT GRADE EQUAL TO OR BETTER THAN PG64-22 FOR DRIVEWAYS AND BUSINESS ENTRANCES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE MATERIAL WILL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THE ASPHALT OR ASPHALT MIX. THE MATERIAL TICKETS SHALL BE MARKED "FOR DRIVEWAYS AND BUSINESS ENTRANCES ONLY" AT THE POINT OF MANUFACTURE.

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.

FEATHER "D"-MIX TO ENDS OF BRIDGES THAT ARE NOT TO BE PAVED.

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.

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 CONTRACTOR SHOULD TAKE EXTREME CARE WHEN COLD PLANING THE EXISTING ASPHALT OFF BRIDGE DECK, SO AS NOT TO DAMAGE THE EXISTING DECK SEALANT AND/OR EXPANSION JOINT MEMBERS (STEEL PLATES, BARS, AND/OR HEADERS). IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY REPAIRS ON ALL DAMAGED MEMBERS TO THE SATISFACTION OF THE PROJECT ENGINEER AT NO ADDITIONAL COST.

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.

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE CONSTRUCTING EARTH PADS FOR THE TYPE 38 TERMINALS TO ENSURE THAT THE ENVIRONMENTAL FEATURES (STREAMS, WETLANDS, OR SPRINGS) ARE NOT IMPACTED DURING CONSTRUCTION. IF THE CONTRACTOR/TDOT INSPECTOR IS UNSURE WHETHER THE ENVIRONMENTAL FEATURES ARE STREAMS, SPRINGS OR WETLANDS, THE INSPECTOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY OR PERMITS SECTION SO AN ACCURATE DETERMINATION CAN BE ASSESSED. AND DURING CONSTRUCTION OF THE EARTH PADS FOR THE TYPE 38 GUARDRAIL TERMINALS, EXISTING VEGETATION WILL BE REQUIRED TO BE REMOVED FOR THE PROPOSED PAD AND SLOPES. IF DURING THE VEGETATION REMOVAL, ANY TREES GREATER THAN 3 INCHES IN DIAMETER ARE REQUIRED TO BE REMOVED, CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION IMMEDIATELY. DUE TO RECENT MODIFICATION OF THE USFWS STANCE REGARDING THE INDIANA BAT NO TREES >3" DBH SHOULD BE CUT WITHOUT CLEARANCE FROM THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION.

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.

SPECIAL RAILROAD CROSSING NOTES

ANY PAVEMENT PREPARATION, PAVEMENT INSTALLATION, PAVEMENT MARKINGS AND/OR RAILROAD WARNING SIGN INSTALLATION WITHIN 50 FT. OF THE NEAREST CSXT TRACK UTILIZING CONTRACTOR EQUIPMENT OR PERSONNEL WILL REQUIRE FULL TIME RAILROAD FLAGGING SERVICES OR AS OTHERWISE DETERMINED BY THE RAILROAD ONLY.

SEE AGREEMENT/STATE CONTRACT RAILROAD SPECIAL PROVISION 105C(R) AND STATE CONTRACT CSX TRANSPORTATION PUBLIC PROJECT POLICY INFORMATION BOOKLET DATED 08/10/12 FOR WORK NEAR, UP TO AND ADJACENT TO, OVER, OR UNDER THE CSXT CROSSING REGARDING FLAGGING RULES AND THE COSTS THEREOF, INSURANCE REQUIREMENTS, AND FOR OTHER CSXT PUBLIC PROJECT POLICY REQUIREMENTS ON THIS PROJECT.

THE CONTRACTOR IS TO CONDUCT HIS WORK SO AS TO PROTECT THE CSX RAILROAD COMPANY TRACT FACILITIES AND PROPERTIES FROM ANY DAMAGE. THE WORK SHALL BE DONE IN ACCORDANCE WITH REGULATIONS STIPULATED BY CSX RAILROAD SO AS TO MAINTAIN CLEARANCE AND NOT TO INTERRUPT TRAIN TRAFFIC IN ANY MANNER. THE CONTRACTOR SHALL NOT STORE ANY OF HIS CONSTRUCTION EQUIPMENT ON THE RAILROAD'S RIGHT-OF-WAY.

THE CONTRACTOR SHALL NOTIFY AND COORDINATE HIS WORK AT THE RAILROAD CROSSING WITH THE FOLLOWING REPRESENTATIVES OF THE RAILROAD.

FOR CSX RAILROAD

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**SPECIAL
NOTES**

