

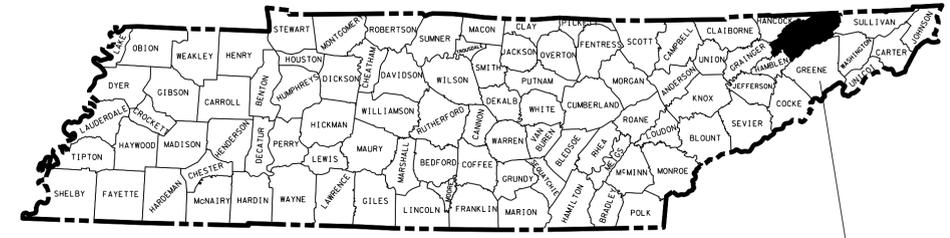
Index Of Sheets  
SEE SHEET NO. 1A FOR INDEX

# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

TENN.	YEAR 2015	SHEET NO. 1
FED. AID PROJ. NO.	NH/HSIP-1(341)	
STATE PROJ. NOS.	37070-8232-14 37070-3232-94	

## HAWKINS COUNTY

S.R. 1 (US 11W): FROM WEST OF S.R. 70 TO RAMP TO S.R. 346



HAWKINS CO.  
S.R. 1

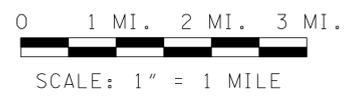
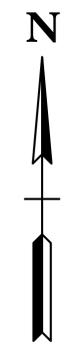
END PROJECT

### RESURFACE AND SAFETY

STATE HIGHWAY NO. 1 F.A.H.S. NO. 11W

BEGIN PROJECT

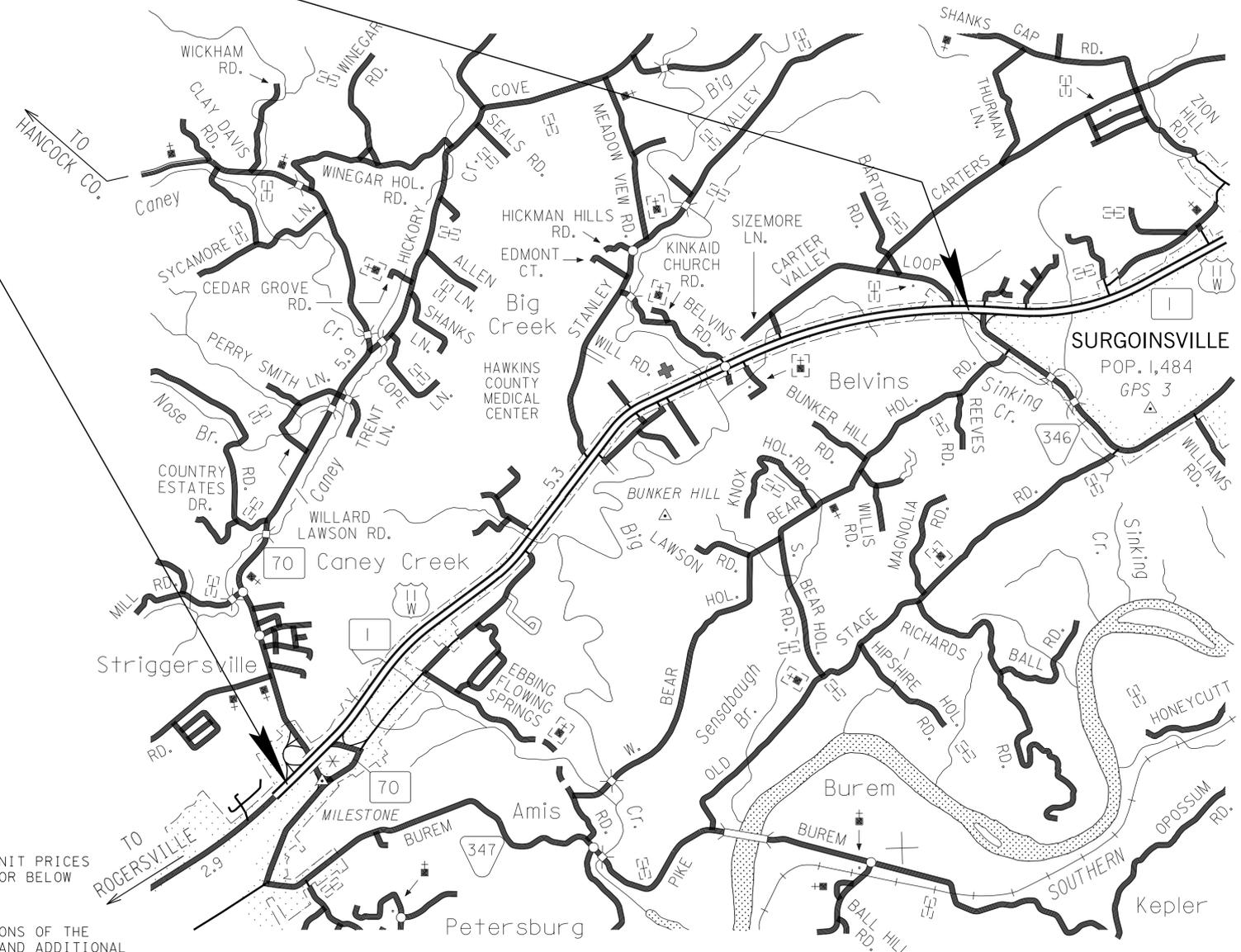
NO EXCLUSIONS  
NO EQUATIONS



#### SPECIAL NOTES

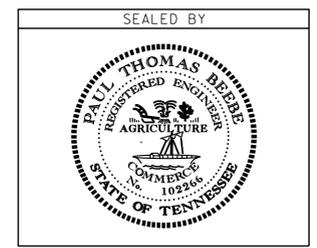
PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.



PROJECT LIMITS  
FROM: APPROX. 0.18 MI. WEST OF S.R. 70 (L.M. 18.00)  
TO: RAMP TO S.R. 346 (L.M. 23.50)

**UNOFFICIAL  
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NOT FOR  
BIDDING**



APPROVED: *Paul D. Degges*  
PAUL D. DEGGES, CHIEF ENGINEER

DATE: \_\_\_\_\_

APPROVED: *John Schroer*  
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

TRAFFIC DATA	
ADT (2015)	13863
POSTED SPEED	55 MPH

PROJECT LENGTH **5.50 MILES**  
TOTAL LANE MILES RESURFACED **22.00 MILES**

TDOT CE MANAGER 1 ERIC WILSON  
DESIGNER JOHN CULLOM, JR. CHECKED BY PAUL BEEBE  
P.E. NO. 98013-4203-04  
PIN 114721.00

# INDEX

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# STANDARD ROADWAY DRAWINGS

## ROADWAY DESIGN STANDARDS

DWG. NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS

## SAFETY DEVICES AND FENCE

DWG. NO.	REV.	DESCRIPTION
S-CZ-1		CLEAR ZONE CRITERIA
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 (RETROFIT)
S-PL-1	02-02-15	SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES

## TRAFFIC CONTROL APPURTENANCES

DWG. NO.	REV.	DESCRIPTION
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDER ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESSED CONTROLLED ROUTES
T-S-16	06-05-14	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-13-09	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS

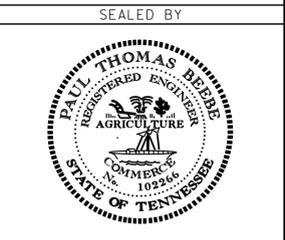
## EROSION PREVENTION AND SEDIMENT CONTROL

DWG. NO.	REV.	DESCRIPTION
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSIP-1(341)	1A

S.R. 1 HAWKINS CO.  
37070-8232-14  
37070-3232-94

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

INDEX  
AND STANDARD  
ROADWAY  
DRAWINGS

**FOOTNOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSIP-1(341)	2

S.R. 1  
37070-8232-14  
37070-3232-94

HAWKINS CO.

**ESTIMATED ROADWAY QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
			37070-8232-14	37070-3232-94
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	112	
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	4164	
411-02.10	ACS MIX (PG70-22) GRADING D	TON	12931	
411-12.01	SCORING SHOULDERS (CONTINUOUS) (16 IN WIDTH)	L.M.		11
411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16 IN WIDTH)	L.M.		8
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	12864	
705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.		50
705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH		17
705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH		17
706-01	GUARDRAIL REMOVED	L.F.		800
712-01	TRAFFIC CONTROL	LS	1	
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	262	
712-05.01	WARNING LIGHTS (TYPE A)	EACH	131	
712-06	SIGNS (CONSTRUCTION)	S.F.	1167	
712-08.03	ARROW BOARD (TYPE C)	EACH	2	
713-16.20	SIGNS (R5-1)	EACH		1
713-16.21	SIGNS (R5-1A)	EACH		3
716-01.23	SNWPLWBLE PVMT MRKRS (BI-DIR) (2 COLOR)	EACH		874
716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		20
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.		12
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH		14
716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH		4
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	25	
716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	25	
717-01	MOBILIZATION	LS	1	

- ① INCLUDES 12 TONS FOR CROSS-OVERS AND 53 TONS FOR TURN LANES.
- ② TO BE USED IN THE FOLLOWING LOCATIONS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.

L.M.	SIDE		OUTSIDE	INSIDE	TYPE 38 TERMINAL 705-04.07 (EACH)	EARTH PAD 705-04.09 (EACH)	SINGLE GUARDRAIL (TYPE 2) 705-02.02 (L.F.)	GUARDRAIL REMOVED 706-01 (L.F.)
	BEG.	LT.						
18.11		X		X	1	1		50
18.19		X		X	1	1		50
18.21	X		X		1 *	1		
18.47		X	X		1	1		50
18.73		X	X		1	1		50
18.90		X	X		1	1		50
18.95	X		X		1	1		37.5
19.06		X	X		1	1		37.5
19.15		X	X		1	1		37.5
20.20		X	X		1	1		37.5
21.25		X	X		1	1		50
21.73		X		X	1	1		50
21.79	X			X	1	1		50
21.79	X		X		1	1		50
21.80		X		X	1	1		50
22.81	X		X		1	1		50
23.39		X	X		1	1	50	100
<b>TOTALS</b>					<b>17</b>	<b>17</b>	<b>50</b>	<b>800</b>

QUANTITIES PROVIDED BY TDOT SAFETY OFFICE. CONTACT BRIAN HURST (615) 253-2433 FOR FURTHER INFORMATION.

\* INCLUDES COST OF REMOVAL OF TYPE 12 END TERMINAL.

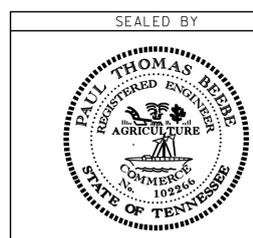
- ③ INCLUDES ALL MATERIAL NECESSARY FOR CONSTRUCTION OF THE PAD AND ANY NECESSARY ESPC MEASURES.
- ④ QUANTITY INCLUDES THE FOLLOWING SIGNS:

NO.	DESCRIPTION	CODE	SIZE	QUANTITY (SF)
23	ROAD WORK	W20-1	48" x 48"	368
16	LANE CLOSED	W20-5	48" x 48"	256
8	LANE ENDS	W4-2	48" x 48"	128
4	ROAD WORK NEXT <u>6</u> MILES	G20-1	36" x 18"	18
4	ADVISORY SPEED	W13-1P	24" x 24"	16
4	END ROAD WORK	G20-2	36" x 18"	18
58	LOW SHOULDER	W8-9	30" x 30"	363
<b>TOTAL</b>				<b>1167</b>

NOTE: THIS CONSTRUCTION SIGNING IS TO BE A MINIMUM. OTHER SIGNS MAY BE REQUIRED AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.

- ⑤ TO BE LOCATED AT THE FOLLOWING LOCATION OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER: 1 AT L.M. 23.38± (RT.) OUTSIDE.
- ⑥ TO BE LOCATED AT THE FOLLOWING LOCATION OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER: 1 AT L.M. 20.82± (RT.) OUTSIDE, 1 AT L.M. 21.84± (LT.) INSIDE AND 1 AT L.M. 22.28± (LT.) OUTSIDE.
- ⑦ INCLUDES COST OF REMOVAL OF ANY EXISTING MARKERS.
- ⑧ 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.
- ⑨ TO BE USED FOR TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS.

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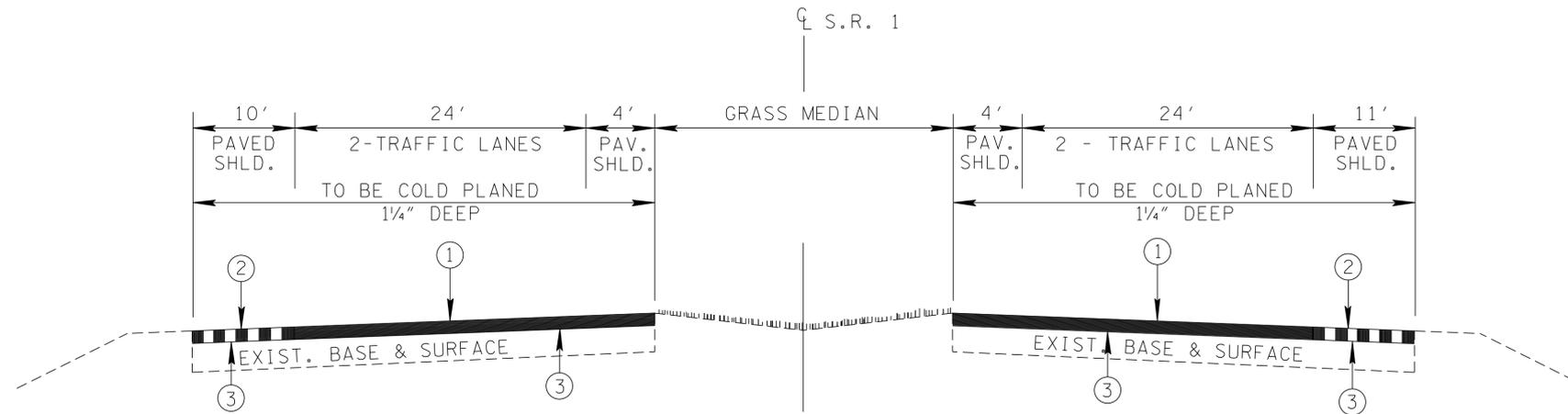
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**ESTIMATED  
ROADWAY  
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSIP-1(341)	3

S.R. 1  
37070-8232-14  
37070-3232-94  
HAWKINS CO.

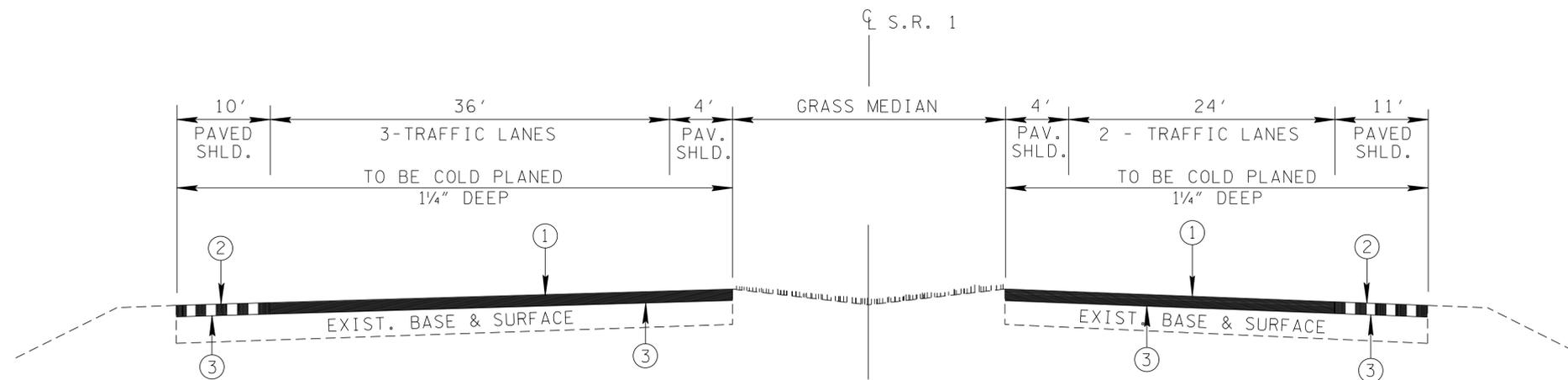
ALL DEPTHS FOR COLD PLANING  
TO BE 1/4" TOLERANCE.



TYPICAL CROSS-SECTION OF IMPROVEMENT

LOG MILE 18.00 TO LOG MILE 18.84  
LOG MILE 19.70 TO LOG MILE 22.30  
LOG MILE 23.23 TO LOG MILE 23.50

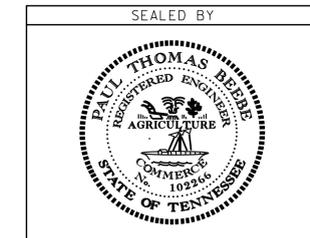
SEE SHEET NO. 4  
FOR PAVEMENT SCHEDULE



TYPICAL CROSS-SECTION OF IMPROVEMENT

LOG MILE 18.84 TO LOG MILE 19.70

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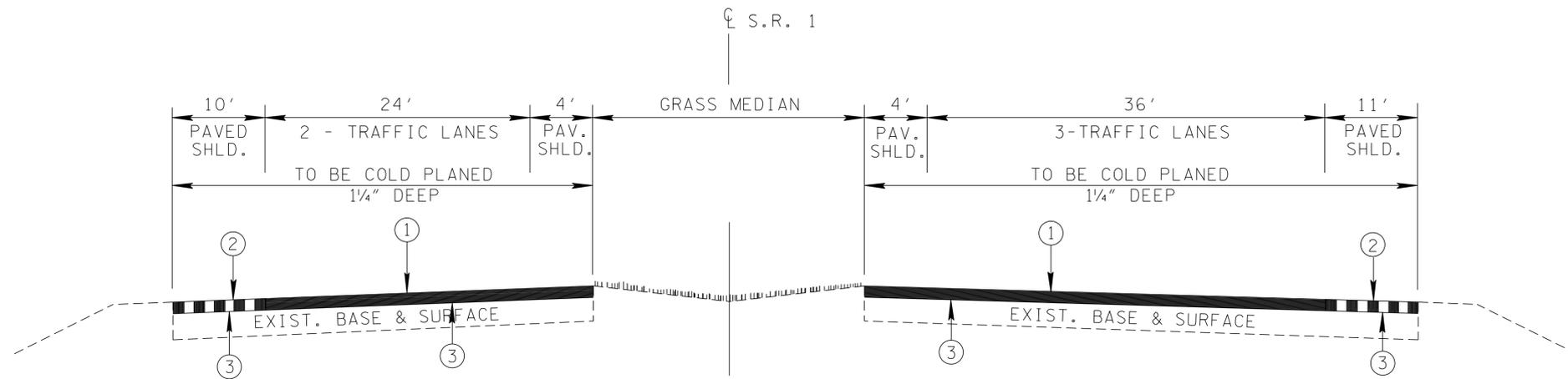
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

TYPICAL  
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSIP-1(341)	4

S.R. 1 HAWKINS CO.  
37070-8232-14  
37070-3232-94

ALL DEPTHS FOR COLD PLANING  
TO BE 1/4" TOLERANCE.



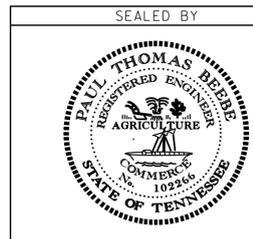
**TYPICAL CROSS-SECTION OF IMPROVEMENT**  
LOG MILE 22.30 TO LOG MILE 23.23

**PROPOSED PAVEMENT SCHEDULE**

①	ASPHALTIC CONCRETE SURFACE (HM) 1/4" TH. (APPROX. 132.5 LBS./SQ.YD.) 411-02.10 ACS MIX (PG70-22) GRADING D
②	ASPHALTIC CONCRETE SURFACE (HM) 1/4" TH. (APPROX. 128.8 LBS./SQ.YD.) 411-01.07 ACS MIX (PG64-22) GRADING E SHOULDER
③	TACK COAT (TC) (APPROX. 0.10 GAL./SQ.YD.) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)

NOTE:  
THE FOLLOWING BRIDGES ARE TO BE COLD PLANED 1/4" AND PAVED WITH 1/4" 'D' MIX:  
BRIDGES OVER S.R. 70 (L.M. 18.16 RT./LT.)  
BRIDGES OVER BIG CREEK (L.M. 21.77 RT./LT.)

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TYPICAL  
SECTION AND  
PROPOSED  
PAVEMENT  
SCHEDULE**

# GENERAL NOTES

## GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) 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.

## UTILITIES

- (1) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING ANY NECESSARY SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (2) 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

- (1) 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

- (1) 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 MARKING (4" LINE), L.M.
- (2) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC (6" LINE) 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 OPERATION 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.

## PAVEMENT

### RESURFACING

- (1) 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

- (1) 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.
- (2) 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.

- (3) 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.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE 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 INCREASE 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. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. 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.
- (6) 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 PARK WITHIN THIRTY (30) FEET OF A 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.
- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

### EROSION PREVENTION AND SEDIMENT CONTROL

#### LITTER, DEBRIS, WASTE, PETROLEUM

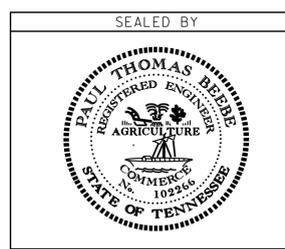
- (1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.
- (2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSIP-1(341)	5

S.R. 1  
37070-8232-14  
37070-3232-94

HAWKINS CO.

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**GENERAL  
NOTES**

# SPECIAL NOTES

## GUARDRAIL

- (1) THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING GUARDRAIL AND/OR END TERMINAL UNTIL THE TDOT OPERATIONS DISTRICT ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL AND/OR END TERMINAL SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR ANY GUARDRAIL AND/OR END TERMINAL UNTIL IT IS COMPLETELY IN PLACE.
- (2) IF ANY GUARDRAIL AND/OR END TERMINAL 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 TEMPORARY MEASURES (BARRICADES, DRUMS, LIGHTS AND ROUNDED END ELEMENTS) SHALL BE INCLUDED IN THE COST OF THE GUARDRAIL AND/OR END TERMINAL.

## UTILITIES

- (1) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT.
- (2) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITES FROM DAMAGE DURING CONSTRUCTION OF THE PROJECT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING ANY NECESSARY SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (3) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE. OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTACTOR'S OPERATIONS.
- (4) 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. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-331-1111 WILL BE REQUIRED.
- (5) UTILITY OWNERS  
ELECTRIC: HOLSTON ELECTRIC COOPERATIVE  
WATER: CITY OF KINGSPORT  
SEWER: SURGOINSVILLE UTILITY DISTRICT AND/OR CITY OF CHURCH HILL  
GAS: HAWKINS CO. NATURAL GAS UTILITY DISTRICT  
CABLE: INTERMEDIA  
TELEPHONE: CENTURYLINK

## MISCELLANEOUS

- (1) THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE NECESSARY. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (2) ALL GUARDRAIL, GUARDRAIL POSTS AND SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE REMOVED AND STORED BY STATE FORCES.
- (3) ALL SIGNING AND PAVEMENT MARKINGS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

- (4) PAVED SHOULDERS SHALL BE BROOMED, AGGREGATE SHOULDERS SHALL BE CLIPPED, AND DITCHES SHALL BE CLEANED BY THE CONTRACTOR. ALL COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN COST OF OTHER ITEMS.

## PAVEMENT MARKINGS

- (1) THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH AND LOCATE ALL "NO PASSING ZONES" IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS WELL AS TO PROVIDE THE LAYOUT OF ALL PAVEMENT MARKING REQUIRED ON THE PROJECT. THE METHOD OF DETERMINING THE "NO PASSING ZONES" IS TO BE APPROVED BY THE TDOT OPERATIONS DISTRICT ENGINEER, WITH ADVICE FROM THE REGIONAL TRAFFIC OFFICE, BEFORE PAVING OPERATIONS BEGIN.

## PAVEMENT

### RESURFACING

- (1) SURFACE IS TO BE CROWNED AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.
- (2) ALL SURPLUS PATCHING, JOINT MATERIAL AND CRACK SEALANT IS TO BE REMOVED BEFORE PLACING THE FIRST LAYER OF ASPHALT.
- (3) STATE FORCES WILL REMOVE ALL RAISED PAVEMENT MARKERS, IF ANY, BEFORE RESURFACING IS BEGUN.
- (4) COLD PLANING IS TO BE DONE IMMEDIATELY PRIOR TO THE COMMENCEMENT OF PAVING OPERATIONS. COLD PLANED SURFACES ARE NOT TO BE LEFT EXPOSED FOR MORE THAN FIVE (5) CALENDAR DAYS BEFORE BEING OVERLAYED BY THE FIRST COURSE OF ASPHALT. IF NECESSARY, COLD PLANING OPERATIONS ARE TO BE SUSPENDED TO ALLOW PAVING OPERATIONS TO CATCH UP. AFTER COLD PLANING AND PRIOR TO ALLOWING USE BY TRAFFIC, THE CONTRACTOR WILL RAMP ASPHALT AROUND EXISTING UTILITIES TO ELIMINATE HAZARD TO VEHICLES. ALL COLD PLANING REQUIRED ON CITY STREETS OR SIDE ROADS WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM NO. 415-01.01.
- (5) ALL DEPTHS FOR COLD PLANING TO BE ±½" TOLERANCE.
- (6) ON ALL SUPERELEVATED CURVES, THE CONTRACTOR SHALL INSURE THAT THE SHOULDER ROLLOVER RATES SHOWN IN THE T.D.O.T. STANDARD ROADWAY DRAWINGS ARE ACHIEVED.
- (7) A MATERIAL TRANSFER DEVICE IS TO BE USED ON ALL MIXES. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR ASPHALT ITEMS.
- (8) SPECIAL PROVISION NO. 411C APPLIES TO THIS PROJECT. AVERAGE HC-IRI NUMBER PER MILE IS 74.7. SEE TABLE BELOW:

NORTHBOUND S.R. 1		
FROM	TO	HC/IRI LANE 1
0.00	1.00	74
1.00	2.00	62
2.00	3.00	68
3.00	4.00	68
4.00	5.00	72
5.00	5.62	68

NORTHBOUND S.R. 1		
FROM	TO	HC/IRI LANE 2
0.00	1.00	72
1.00	2.00	86
2.00	3.00	85
3.00	4.00	108
4.00	5.00	68
5.00	5.62	69

SOUTHBOUND S.R. 1		
FROM	TO	HC/IRI LANE 1
0.00	1.00	69
1.00	2.00	76
2.00	3.00	71
3.00	4.00	67
4.00	5.00	75
5.00	5.62	85

SOUTHBOUND S.R. 1		
FROM	TO	HC/IRI LANE 2
0.00	1.00	87
1.00	2.00	81
2.00	3.00	70
3.00	4.00	69
4.00	5.00	68
5.00	5.62	74

- (9) 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.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) 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.
- (2) ANY WORK REQUIRING LANE CLOSURES INCLUDING PAVEMENT MARKING OPERATIONS SHALL BE AT NON-PEAK HOURS (9:00 A.M. TO 3:00 P.M.) UNLESS OTHERWISE DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.
- (3) NO LANE CLOSURES WILL BE ALLOWED ON WEEKENDS (FRIDAY – SUNDAY) WHEN THERE IS A SCHEDULED NASCAR RACE IN BRISTOL.

## PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL

- (1) A. DIFFERENCES 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. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:
    - a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), 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.

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RESURF	2015	NH/HSIP-1(341)	6

S.R. 1  
37070-8232-14  
37070-3232-94

HAWKINS CO.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

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DEPARTMENT OF TRANSPORTATION

**SPECIAL  
NOTES**

# SPECIAL NOTES (CON'T.)

## EROSION PREVENTION AND SEDIMENT CONTROL

### DISTURBED AREA

- (1) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.

### SEDIMENT CONTROL

- (2) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.

### STREAM/WETLAND

- (3) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING OR TRANSPORTATION AREAS.

### NPDES

- (4) 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.
- (5) 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.

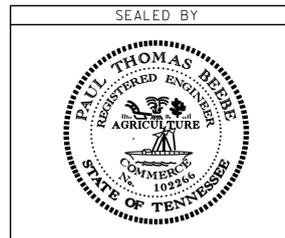
### ECOLOGY

- (6) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE CONSTRUCTING EARTH PADS FOR THE TYPE 38 TERMINALS TO ENSURE THAT 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.
- (7) 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 5 INCHES IN DIAMETER ARE REQUIRED TO BE REMOVED, CONTACT THE T.D.O.T. ENVIRONMENTAL DIVISION ECOLOGY SECTION IMMEDIATELY. DUE TO THE RECENT MODIFICATION OF THE USFWS STANCE REGARDING THE INDIANA BAT NO TREES >5" DBH SHOULD BE CUT WITHOUT CLEARANCE FROM THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION.

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