

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	14RS-5	STARK/HENRY	23	1
		ELKHOR		CONTRACT NO 68D00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 22 (IL 78)  
SECTION 14RS-5  
PROJECT STP-TLNC (008)  
3P RESURFACING  
STARK & HENRY COUNTIES

C-94-010-16

HIGHWAY STANDARDS

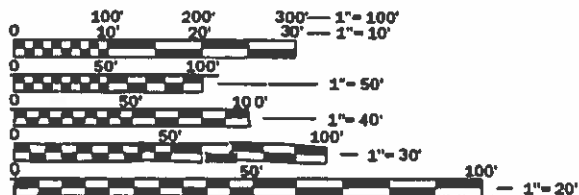
000001-07	701306-04
001006	701311-03
442201-03	701336-07
630001-12	701901-08
701006-05	725001-01
701011-04	780001-05
701301-04	781001-04
	782006

DISTRICT STANDARDS

- 406101
- 440001
- 630101
- 780001

DESIGN DESIGNATION  
Minor Arterial

- IL 78:  
ADT = 2050 (2017)  
MU = 100 (2017)  
SU = 150 (2017)

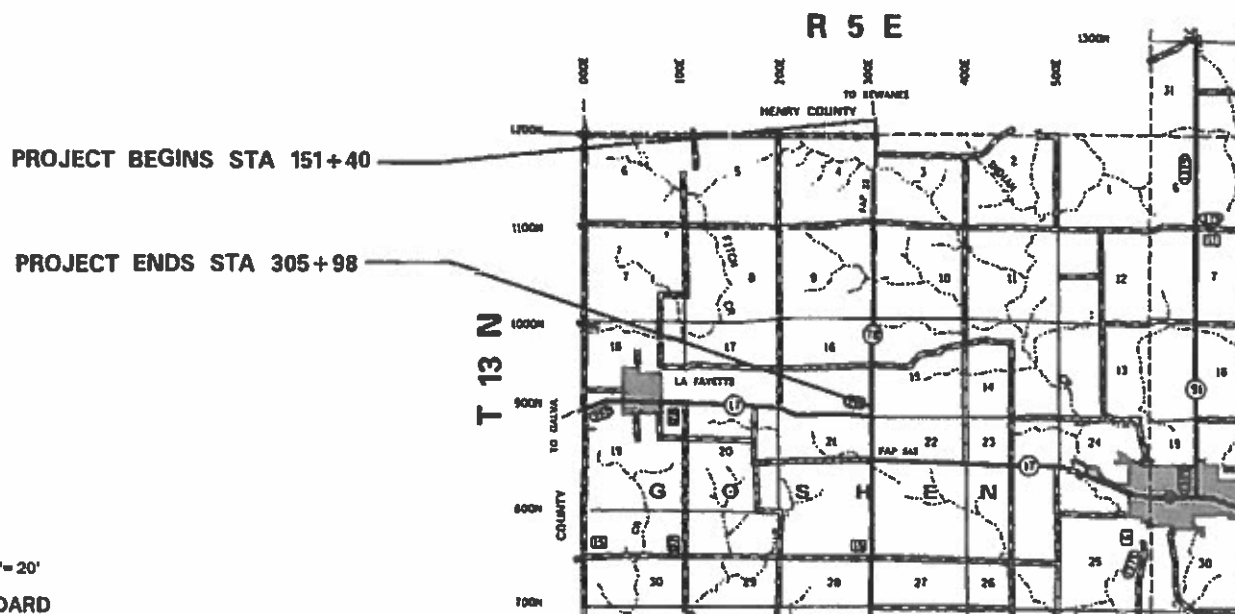


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

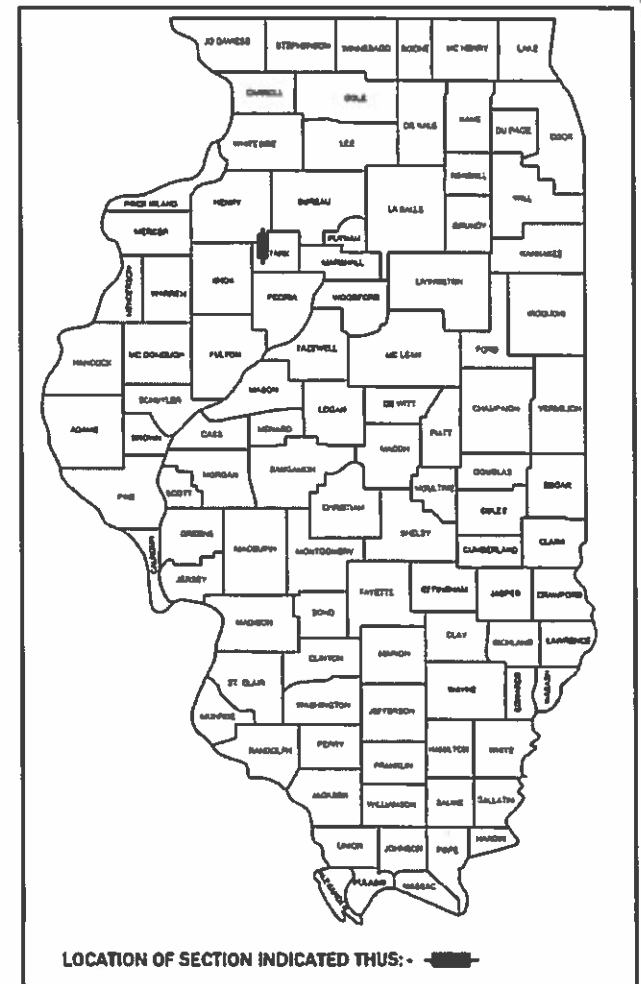
PROJECT ENGINEER MIKE LEWIS 309671-3454  
PROJECT MANAGER ELIAS ELDERZI 309671-3482  
CATALOG NO. 035341-00D  
CONTRACT NO. 68D00

GROSS LENGTH = 15458 FT. = 2.93 MILE  
NET LENGTH = 15458 FT. = 2.93 MILE



PROJECT BEGINS STA 151+40

PROJECT ENDS STA 305+98



DESCRIPTION OF WORK

This project consists of bituminous surface removal, bituminous resurfacing, patching and guardrail removal & replacement from just north of WB IL 17 to just north of the Stark /Henry county line.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 31 2019  
Kenneth A. Barrett x50  
REGION THREE ENGINEER

June 14 2019  
E.A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

June 14 2019  
Paul P. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2-3 INDEX OF SHEETS, GENERAL NOTES & COMMITMENTS
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- 13 LINE DIAGRAM
- 14 TRANSITION, ENTRANCE & MAILBOX TURNOUT DETAIL
- 15 SIDEROAD DETAIL
- 16-23 DISTRICT CADD STANDARDS

**COMMITMENTS**

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

**NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.**

**PROPERTY OWNER ACCESS REQUIREMENTS**

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

**AGGREGATE SHOULDERS, TYPE B**

Aggregate Shoulders, Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

**POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES**

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb/sf
Existing Pavement	0.08 lb/sf
Fog Coat (between lifts)	0.08 lb/sf

**ENVIRONMENTAL REVIEWS**

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Environmental Survey Request)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

**ENGINEERS FIELD OFFICE**

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):  
All of the telephone lines provided shall have unpublished numbers.

**NO PASSING ZONE VERIFICATION**

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

**PAVING SURFACE COURSE**

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

**PAVEMENT STATIONING NUMBERS & PLACEMENT**

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20mm) wide, 5 inches (125 mm ) high and 5/8 inch (15 mm ) deep.

The pavement station numbers shall be installed as specified herein:

Interval – 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers – 6 inches (150 mm ) from the inside edge of the pavement marking

Location:

- \* 2,3, & 5 Lane Pavements – right edge of pavement in direction of increasing stations
- \* Multi-Lane Divided Roadways – outside edge of pavement in both directions
- \* Ramps – along baseline edge of pavement

Position – stations shall be placed so they can be read from the adjacent shoulder

Format – English (Metric) pavement stations shall use this format "XXX (XX + X00)" where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

**JOB SPECIFIC NOTES**

The contractor shall mark all no passing zones prior to HMA Surface Removal. This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

**BUTT JOINT CUTTING TIME RESTRICTION**

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

Mixture Use(s):	Surface Course 1.5"	Polymer Level Binder 1"	Partial Depth Patching	Incidental Surface	Binder Course 2 1/4"	Class D Patching
<b>AC/PG:</b>	PG 64-22	SBS or SBR 76-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
<b>Design Air Voids:</b>	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
<b>Mixture Composition: (Mixture Gradation)</b>	IL 9.5	IL 4.75	IL 9.5	IL 9.5	IL 9.5	IL 19
<b>Friction Aggregate:</b>	Mix D	N.A.	N.A.	Mix C	N.A.	N.A.
<b>Quality Management Program:</b>	QCP	QCQA	QCQA	QCQA	QCP	QCQA

- Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.  
 2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.  
 3) Sublot sizes for PFP and QCP mixes will be 800 tons, unless otherwise agreed to by the Engineer and the paving contractor.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				Henry County	Stark County
				0005	0005
				FED / STATE	FED / STATE
				80 / 20	80 / 20
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	71780	485	71295
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	464		464
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	630	116	514
40600990	TEMPORARY RAMP	SQ YD	157	19.3	137.7
40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	5627	42	5585
40603335	HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	3823	28	3795
40800050	INCIDENTAL HOT - MIX ASPHALT SURFACING	TON	110		110
44000156	HOT - MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	44607	217	44390
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	442	43.3	398.7
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	22		22
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	231		231
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4938	35	4903
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1350		1350
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	10		10

\*= SPECIALTY ITEM

FILE NAME =	USER NAME = everscl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 4\Projects\04.680000\Drawings\CAD\Sheets\0468000-sht-500.dgn		CHECKED -	REVISED -			22	14RS-5	STARK/HENRY	23	4	
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 68D00		ILLINOIS FED. AID PROJECT			
PLOT DATE = 5/31/2019											

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				Henry County	Stark County
				0005	0005
				FED / STATE	FED / STATE
				80 / 20	80 / 20
63200310	GUARDRAIL REMOVAL	FOOT	1825		1825
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2		2
67100100	MOBILIZATION	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10		10
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	10	5	5
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	4919	35	4884
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	513	6	507
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	10		10
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	42208	460	41748
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	195	2	193
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	30		30
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	195	2	193

\*= SPECIALTY ITEM

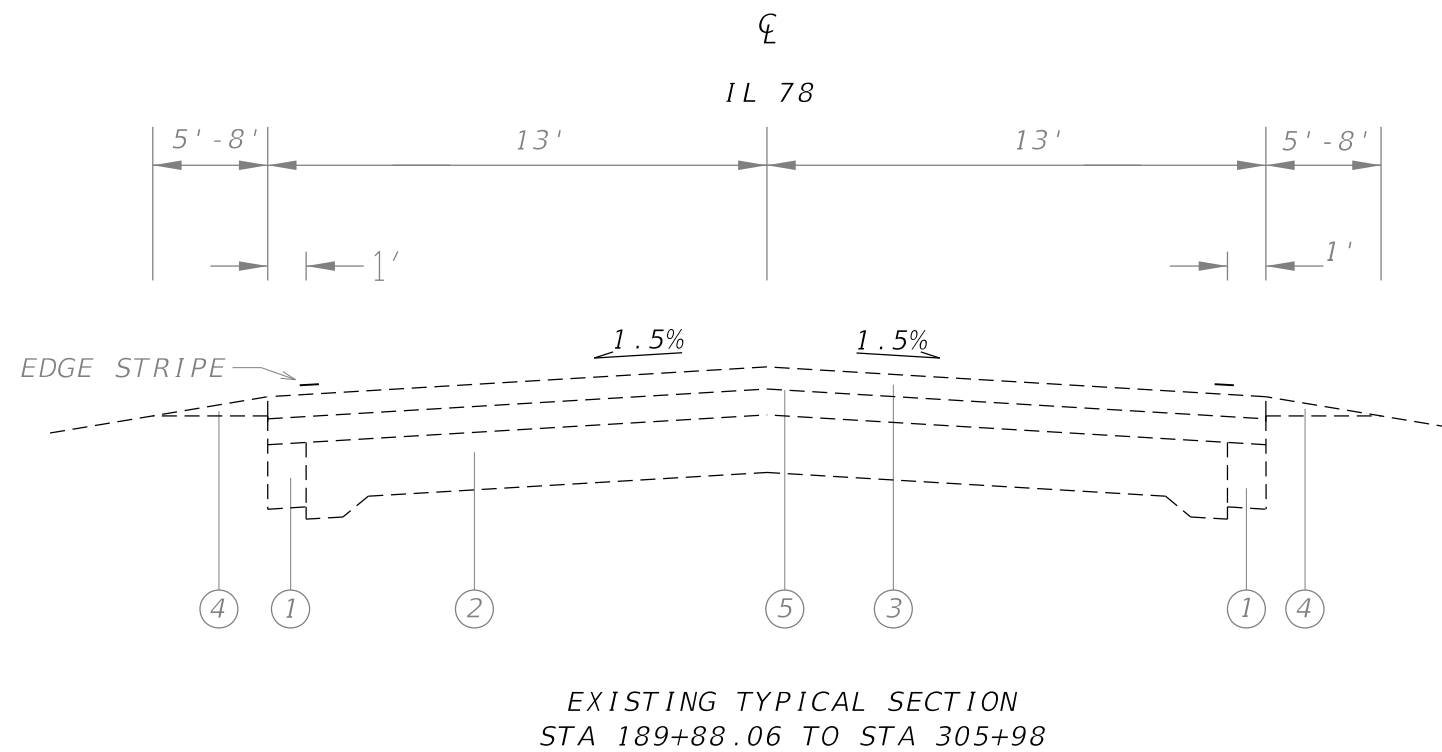
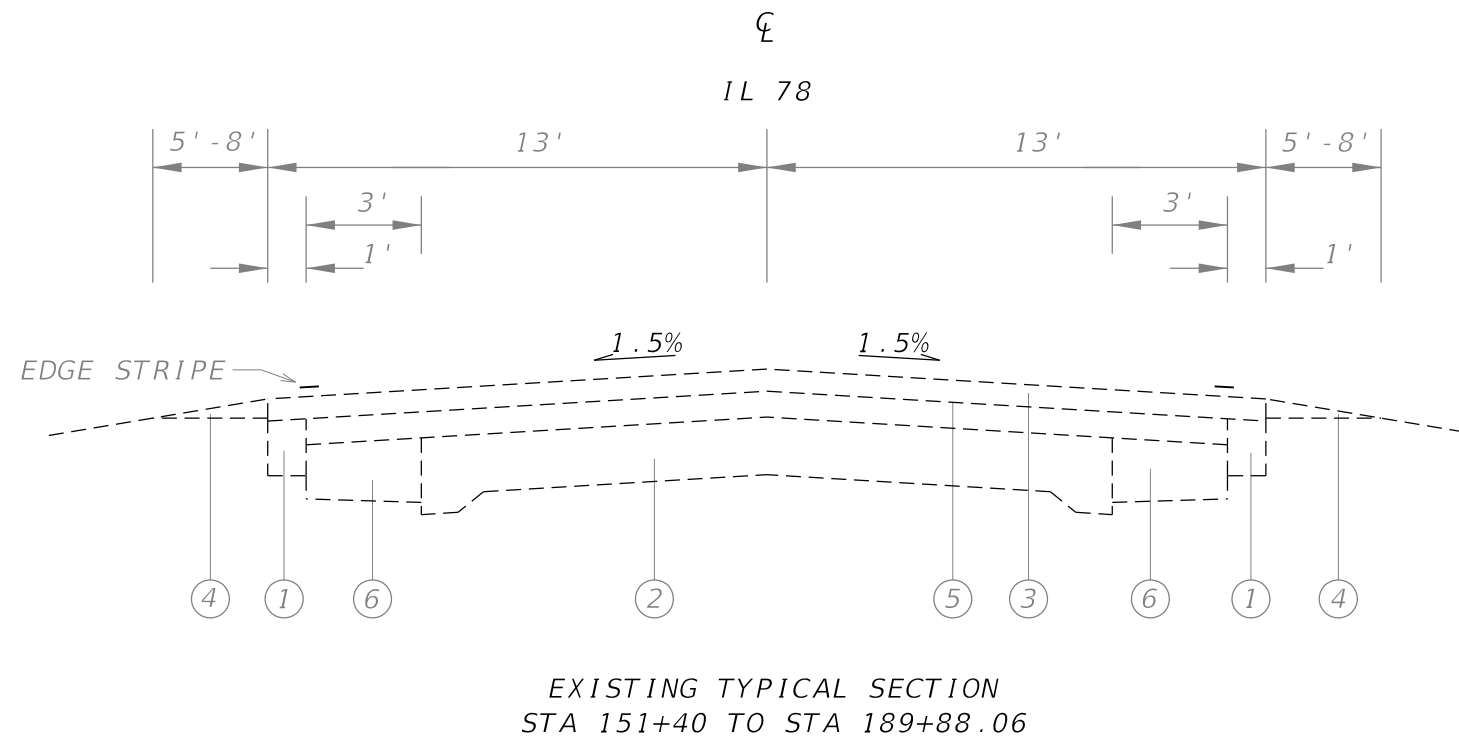
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/31/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	14RS-5	STARK/HENRY	23	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68D00	

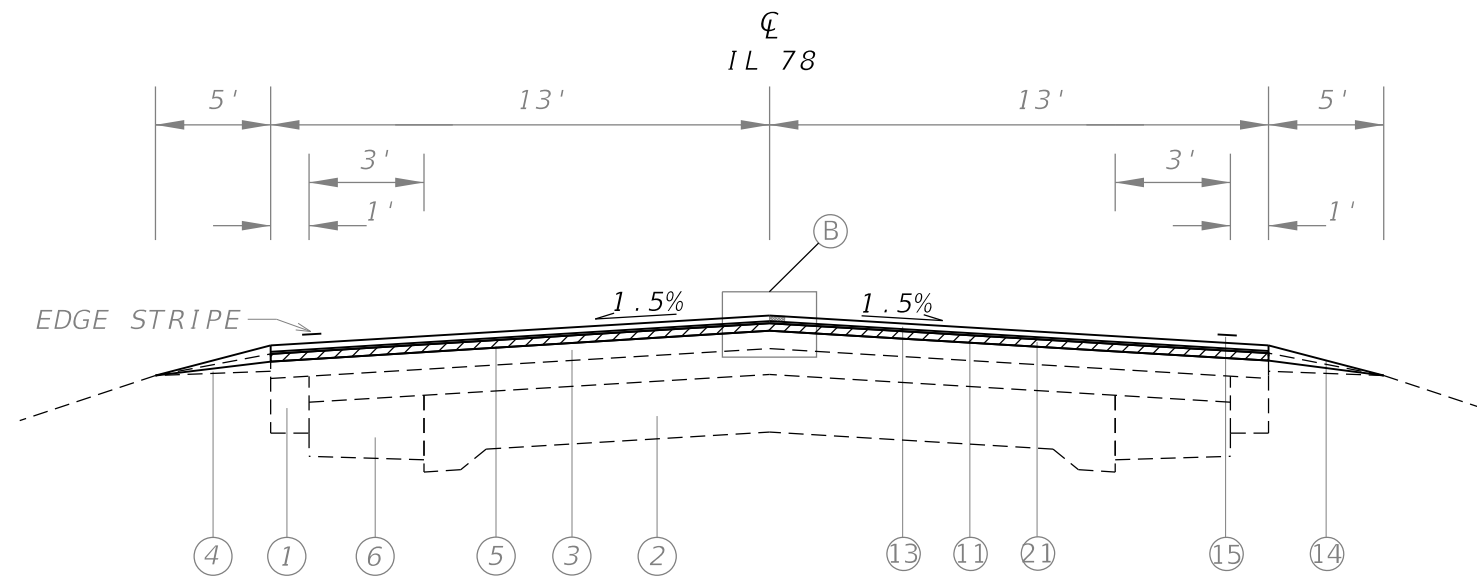




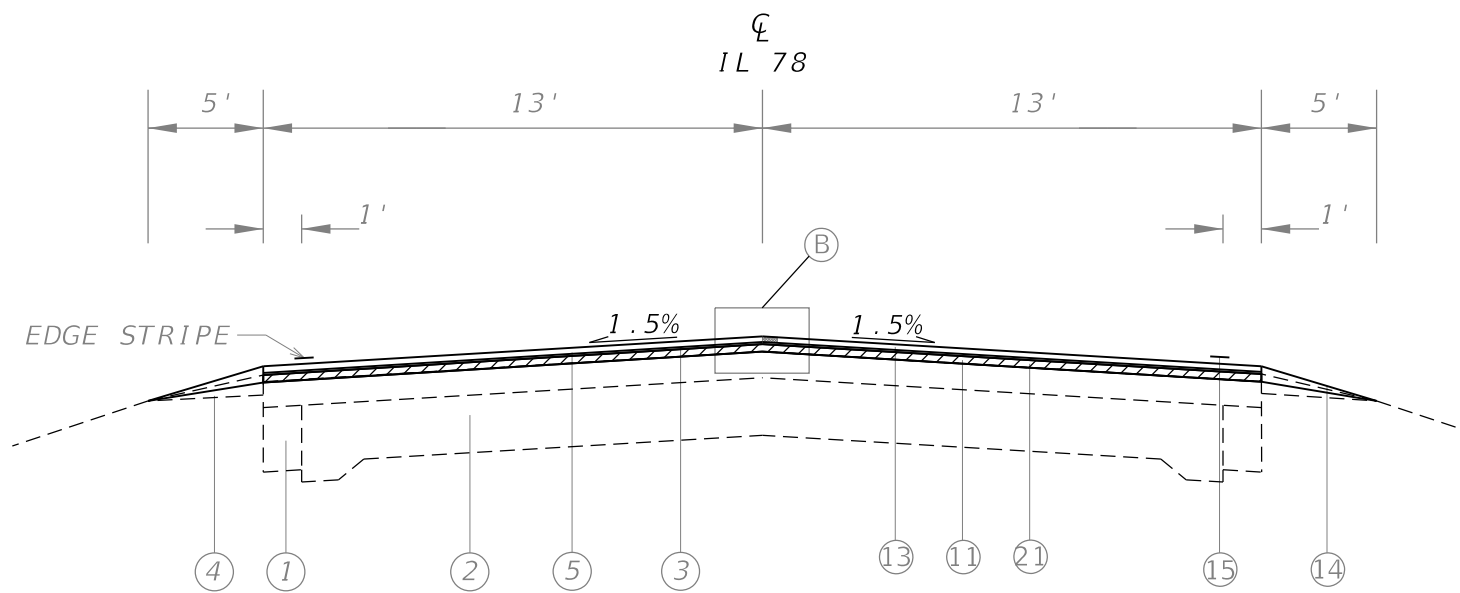
LEGEND

- ① EXISTING BITUMINOUS SHOULDER
- ② EXISTING PAVEMENT
- ③ EXISTING OVERLAY
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING AREA REFLECTIVE CRACK CONTROL
- ⑥ EXISTING WIDENING
  
- ⑪ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), N50, 1"
- ⑬ PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- ⑭ PROPOSED AGGREGATE SHOULDERS, TY B (WEDGE)
- ⑮ PROPOSED MODIFIED URETHANE PAVEMENT MARKING, 4"
- ⑯ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
- ⑰ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)
- ⑱ PROPOSED AGGREGATE SHOULDERS, TY B (VARIABLE DEPTH)
- ⑲ PROPOSED PARTIAL DEPTH PATCHING (SPECIAL)
- ⑳ PROPOSED PARTIAL DEPTH PATCHING
- ㉑ PROPOSED HMA BINDER COURSE, 2 1/4"
- ㉒ PROPOSED STEEL PLATE GUARDRAIL, TYPE A, 6 FOOT POST

FILE NAME =	USER NAME = everscd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						22	14RS-5	STARK/HENRY	23	7	
						CONTRACT NO. 68D00					
						ILLINOIS FED. AID PROJECT					
Default	PLOT DATE = 5/31/2019	DATE -	REVISED -	SCALE: NOT TO SCALE	SHEET OF SHEETS	STA. 152+55	TO STA. 305+68				



PROPOSED TYPICAL SECTION  
STA 151+40 TO STA 189+88.06

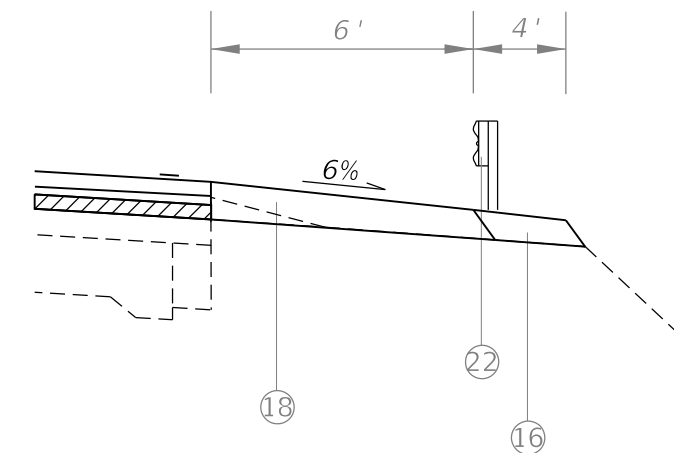


PROPOSED TYPICAL SECTION  
STA 189+88.06 TO STA 277+53

LEGEND

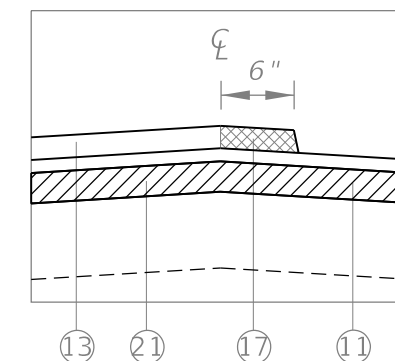
- |  |   |
|--|---|
| ① EXISTING BITUMINOUS SHOULDER           | ⑪ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"    |
| ② EXISTING PAVEMENT                      | ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), N50, 1"  |
| ③ EXISTING OVERLAY                       | ⑬ PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1 1/2"   |
| ④ EXISTING AGGREGATE SHOULDER            | ⑭ PROPOSED AGGREGATE SHOULDERS, TY B (WEDGE)          |
| ⑤ EXISTING AREA REFLECTIVE CRACK CONTROL | ⑮ PROPOSED MODIFIED URETHANE PAVEMENT MARKING, 4"     |
| ⑥ EXISTING WIDENING                      | ⑯ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL        |
|  | ⑰ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)  |
|  | ⑱ PROPOSED PARTIAL DEPTH PATCHING (SPECIAL)           |
|  | ⑲ PROPOSED PARTIAL DEPTH PATCHING                     |
|  | ⑳ PROPOSED HMA BINDER COURSE, 2 1/4"                  |
|  | ㉑ PROPOSED STEEL PLATE GUARDRAIL, TYPE A, 6 FOOT POST |

SHOULDER DETAIL IN GUARDRAIL LOCATIONS



Rt. & Lt. Sta. 178+95 to 181+95  
Rt. Sta. 231+22 to 236+72  
Lt. Sta. 231+69 to 237+19  
Rt. Sta. 255+12.5 to 256+62.5

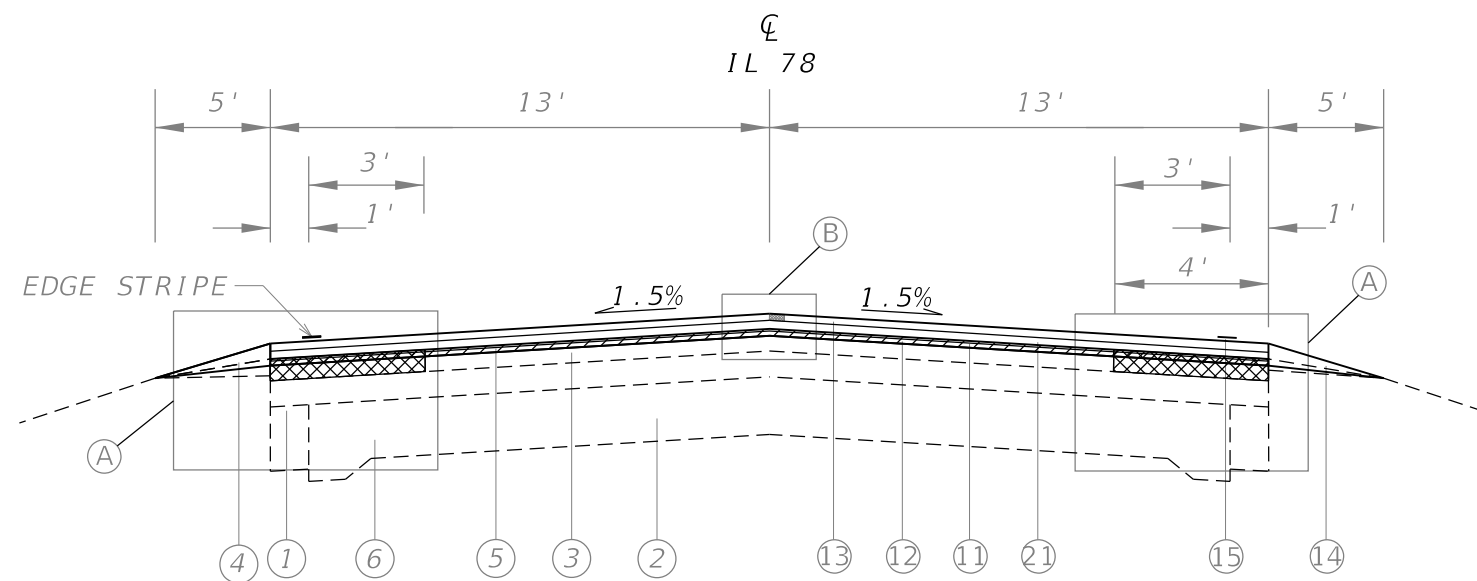
See District Standard 630101 for details.



NOTE:  
SEE CONSTRUCTION SEQUENCE  
FOR MILLING AND PAVING SPECIAL  
PROVISION.

DETAIL "B"

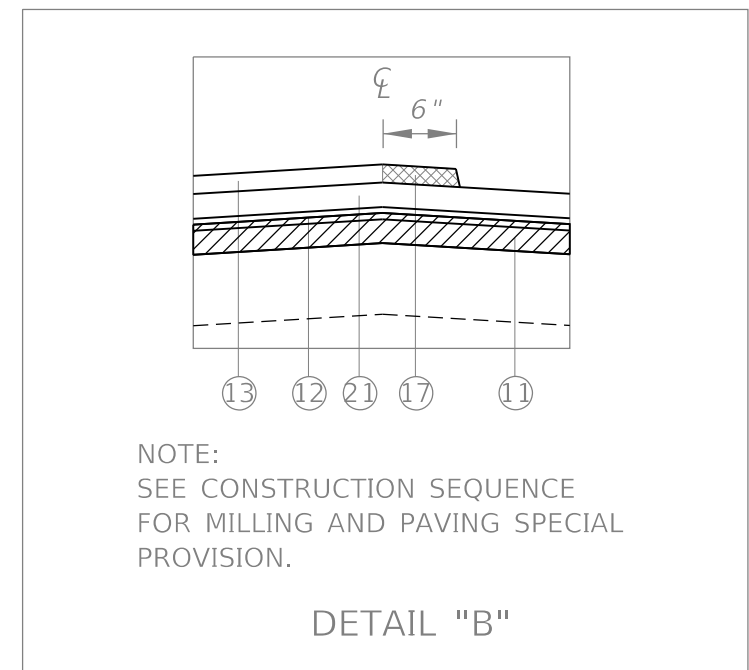
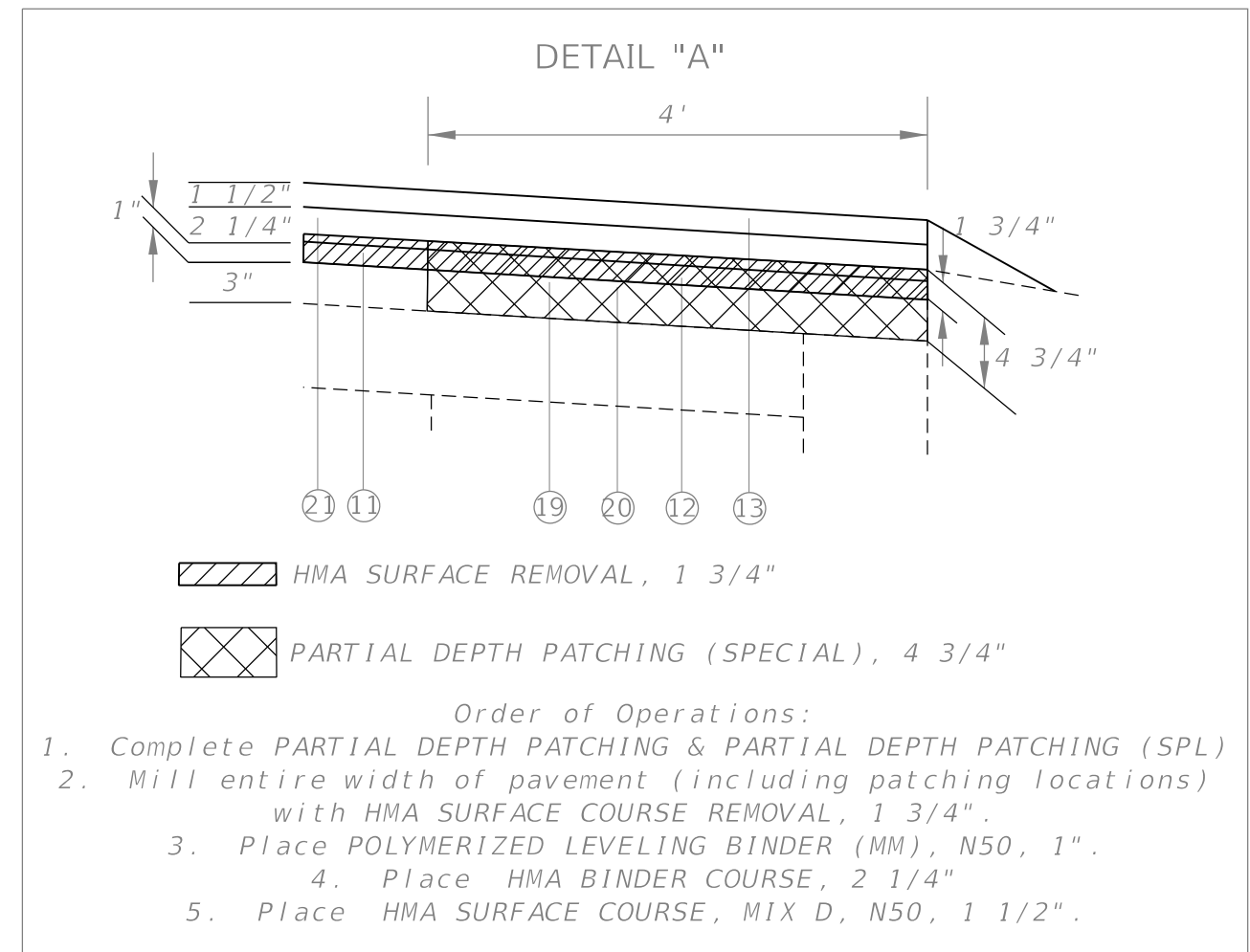




PROPOSED TYPICAL SECTION  
STA 277+53 TO STA 305+98

LEGEND

- |  |   |
|--|---|
| ① EXISTING BITUMINOUS SHOULDER           | ⑪ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"    |
| ② EXISTING PAVEMENT                      | ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), N50, 1"  |
| ③ EXISTING OVERLAY                       | ⑬ PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1 1/2"   |
| ④ EXISTING AGGREGATE SHOULDER            | ⑭ PROPOSED AGGREGATE SHOULDERS, TY B (WEDGE)          |
| ⑤ EXISTING AREA REFLECTIVE CRACK CONTROL | ⑮ PROPOSED MODIFIED URETHANE PAVEMENT MARKING, 4"     |
| ⑥ EXISTING WIDENING                      | ⑯ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL        |
|  | ⑰ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)  |
|  | ⑱ PROPOSED PARTIAL DEPTH PATCHING (SPECIAL)           |
|  | ⑲ PROPOSED PARTIAL DEPTH PATCHING                     |
|  | ⑳ PROPOSED HMA BINDER COURSE, 2 1/4"                  |
|  | ㉑ PROPOSED STEEL PLATE GUARDRAIL, TYPE A, 6 FOOT POST |



Resurfacing Table													
Location	Length	Width	Area	HMA SURFACE REMOVAL-BUTT JT	TEMPORARY RAMP	HMA SURFACE REMOVAL 1 3/4"	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	HMA SURF CSE Mix D, N50 1.5"	POLYMERIZED LEVELING BINDER N50 1"	HMA BINDER COURSE N50 2 1/4"	INCIDENTAL HMA SURFACING	MATERIAL TRANSFER DEVICE	AGGREGATE SHOULDERS, TYPE B
	Feet	Feet	Sq Yd	Sq Yd	Sq Yd	Sq Yd	Pound	Ton	Ton	Ton	Ton	Ton	Ton
<b>IL 78</b>													
<b>Henry County</b>													
151+40 TO 151+80	40	26	115.56	115.56	19.3		168.53	9.89		14.56		24.45	12.02
151+80 TO 152+55	75	26	216.67			216.67	316.00	18.55		27.30		45.85	22.54
<i>Sub Total</i>			<i>332.23</i>	<i>115.56</i>	<i>19.26</i>	<i>216.67</i>	<i>484.53</i>	<i>28.44</i>		<i>41.86</i>		<i>70.30</i>	<i>34.56</i>
<b>Stark County</b>													
152+55 TO 277+33	12478	26	36047.56			36047.56	52573.97	3086.23		4541.99		7628.22	3832.44
277+33 TO 277+53	20	26	57.78	57.78	14.4	57.78	125.87	4.95	3.24	7.28		15.47	6.01
277+53 TO 305+38	2785	26	8045.56			8045.56	17582.63	688.82	450.55	1013.74		2153.11	1013.22
305+38 TO 305+98	60	26	173.33	173.33	38.5		252.80	14.84	9.71	21.84		46.39	18.03
Entrances	510	5	238.7			238.70	343.73				40.80		
<b>South County Road</b>	30	21	112.93	48.3	16.33		81.31				12.65		6.75
<b>Sideroad 1175 N</b>	30	20	109.59	46.7	15.56		78.91				12.27		6.75
<b>Sideroad 1100 N (West)</b>	30	24	122.93	53.3	18.67		88.51				13.77		6.75
<b>Sideroad 1100 N (East)</b>	30	22	116.26	50.0	17.11		83.71				13.02		6.75
<b>Sideroad 950 N</b>	30	22	116.26	84.4	17.11		83.71				17.38		6.75
<i>Sub Total</i>			<i>45140.89</i>	<i>513.89</i>	<i>137.74</i>	<i>44389.60</i>	<i>71295.13</i>	<i>3794.84</i>	<i>463.50</i>	<i>5584.85</i>	<i>109.89</i>	<i>9843.19</i>	<i>4903.44</i>
<b>TOTAL</b>	15458		<b>45473.12</b>	<b>629.45</b>	<b>157.00</b>	<b>44606.27</b>	<b>71779.66</b>	<b>3823.28</b>	<b>463.50</b>	<b>5626.71</b>	<b>109.89</b>	<b>9913.49</b>	<b>4938.00</b>

Class D patching locations - for information only

IL 17 to 950N				
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Northbound	10	13	14.4	II
	6	13	8.7	II
	10	13	14.4	II
	6	13	8.7	II
	6	13	8.7	II
	10	13	14.4	II
	6	13	8.7	II
	10	13	14.4	II
		Subtotal	101.1	SQ YD
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Southbound	10	13	14.4	II
	6	13	8.7	II
	10	13	14.4	II
	8	13	11.6	II
	10	13	14.4	II
	15	13	21.7	III
	10	13	14.4	II
	8	13	11.6	II
		Subtotal	111.2	SQ YD

950N to 1100 N				
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Northbound	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
		Subtotal	43.3	SQ YD
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Southbound	6	13	8.7	II
	6	13	8.7	II
	8	13	11.6	II
	6	13	8.7	II

1100 N to County Line				
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Northbound	6	13	8.7	II
	10	13	14.4	II
	6	13	8.7	II
	6	13	8.7	II
	80	13	115.6	IV
	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
		Subtotal	190.7	SQ YD
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Southbound	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
	80	13	115.6	IV
	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II
		Subtotal	167.6	SQ YD

Henry County Line to North Butt Joint				
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Northbound	6	13	8.7	II
	6	13	8.7	II
		Subtotal	17.3	SQ YD
	Length (ft)	Width (ft)	Area (Sq Yd)	Type
Southbound	6	13	8.7	II
	6	13	8.7	II
	6	13	8.7	II

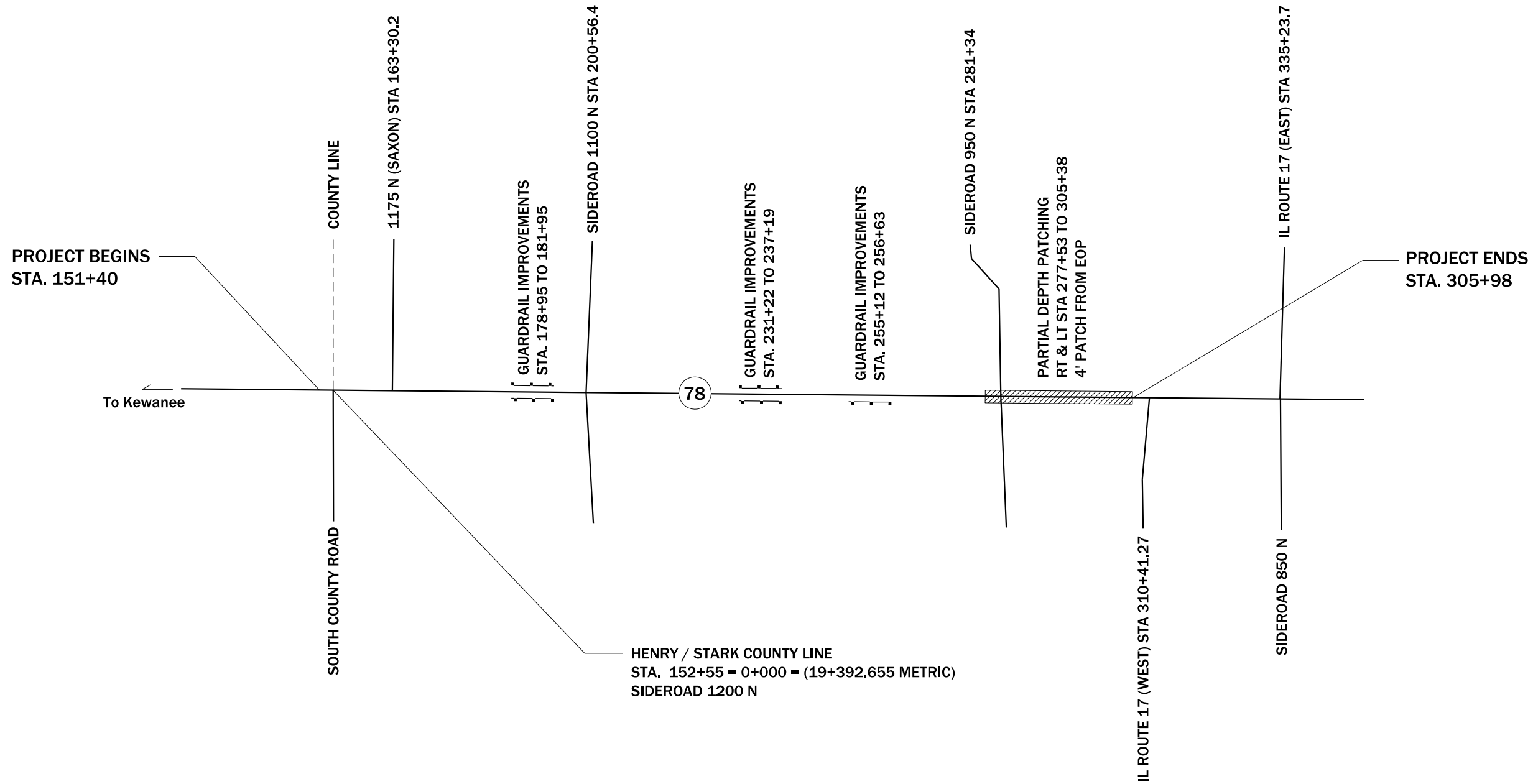
CLASS D PATCHES, 14"						
	Type II		Type III		Type IV	
	SQ YD		SQ YD		SQ YD	
	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.
<b>HENRY COUNTY</b>						
Sta. 151+40 to 152+55	17.30	26.00				
<i>Henry County Total</i>	<b>43.30</b>		<b>0.00</b>		<b>0.00</b>	
<b>STARK COUNTY</b>						
Sta. 152+55 to 305+68	219.56	179.11		21.70	115.60	115.60
<i>Stark County Total</i>	<b>398.67</b>		<b>21.70</b>		<b>231.20</b>	
<b>TOTAL</b>	<b>441.97</b>		<b>21.70</b>		<b>231.20</b>	

PARTIAL DEPTH PATCHING (SPECIAL)					
STARK COUNTY			LENGTH	WIDTH	AREA
STA.	TO	STA.	FT	FT	SQ YD
Rt. 277+53	TO	305+98	2845	4	1264.44
Lt. 277+53	TO	305+98	2845	4	1264.44
<b>TOTAL</b>					<b>2528.88</b>

PARTIAL DEPTH PATCHING					
STARK COUNTY			AREA	THICKNESS	TON
STA.	TO	STA.	SQ YD	INCH	
Rt. 277+53	TO	305+98	1264.44	4.75	336.34
Lt. 277+53	TO	305+98	1264.44	4.75	336.34
<b>TOTAL</b>					<b>672.68</b>

CONSTRUCTION STATION LAYOUT	
	L SUM
Jobsite	1.00
<b>TOTAL</b>	<b>1.00</b>





NOT TO SCALE

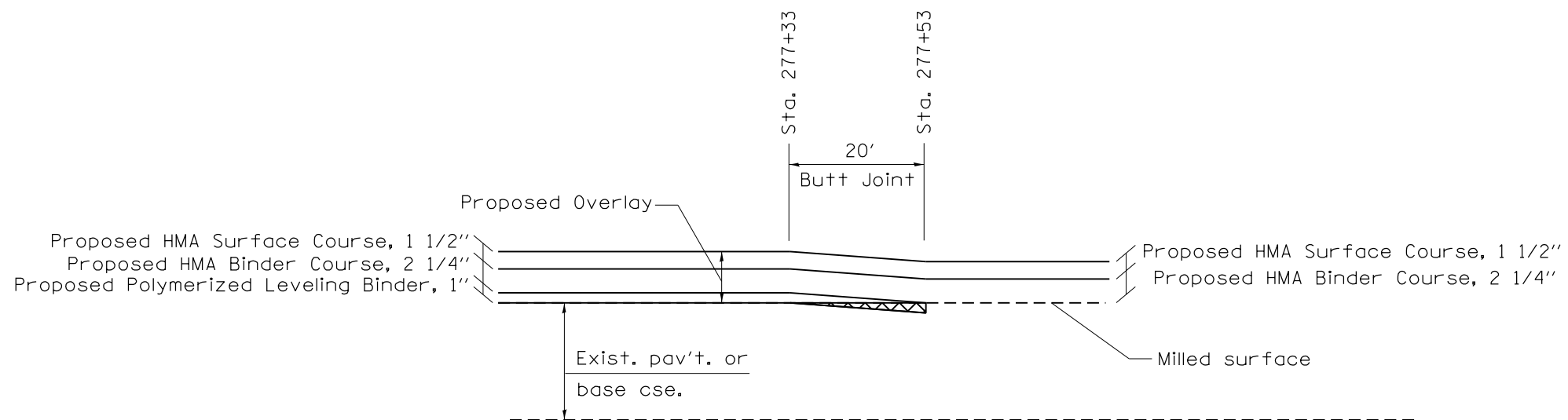
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Default	PLOT SCALE = 2,000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 5/31/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

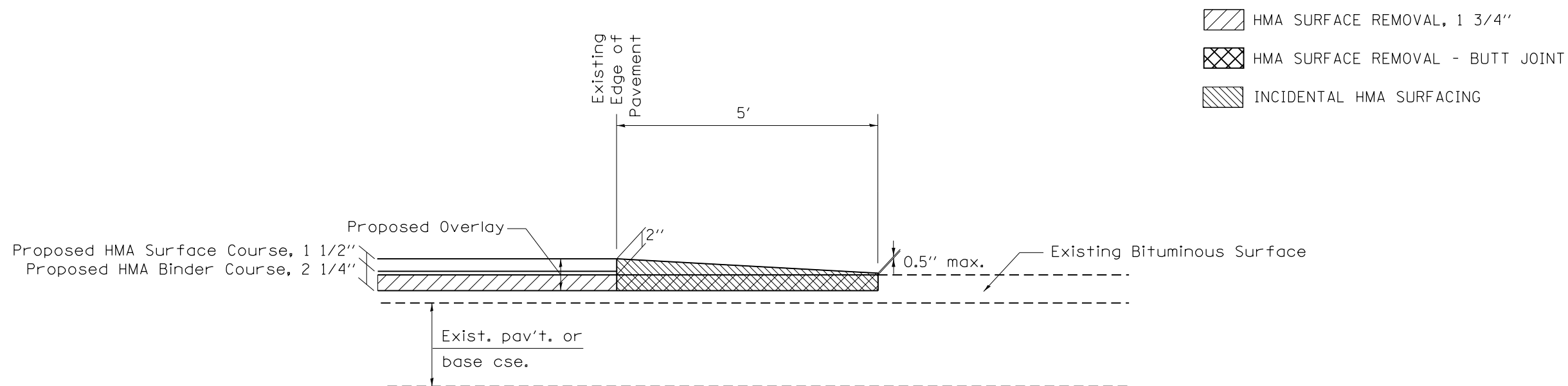
**LINE DIAGRAM**

SCALE: SHEET OF SHEETS STA. 151+40 TO STA. 305+98

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	14RS-5	STARK/HENRY	23	13
CONTRACT NO. 68D00				
ILLINOIS FED. AID PROJECT				

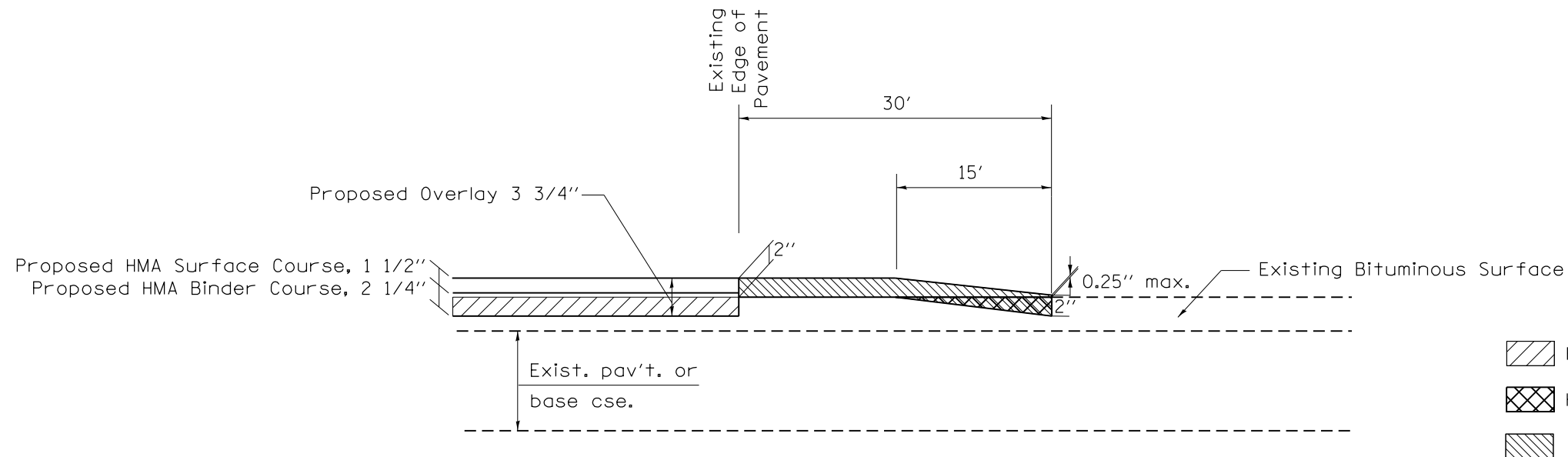





DETAIL at Transition to partial depth patching  
3 3/4" Overlay to 4 3/4" Overlay



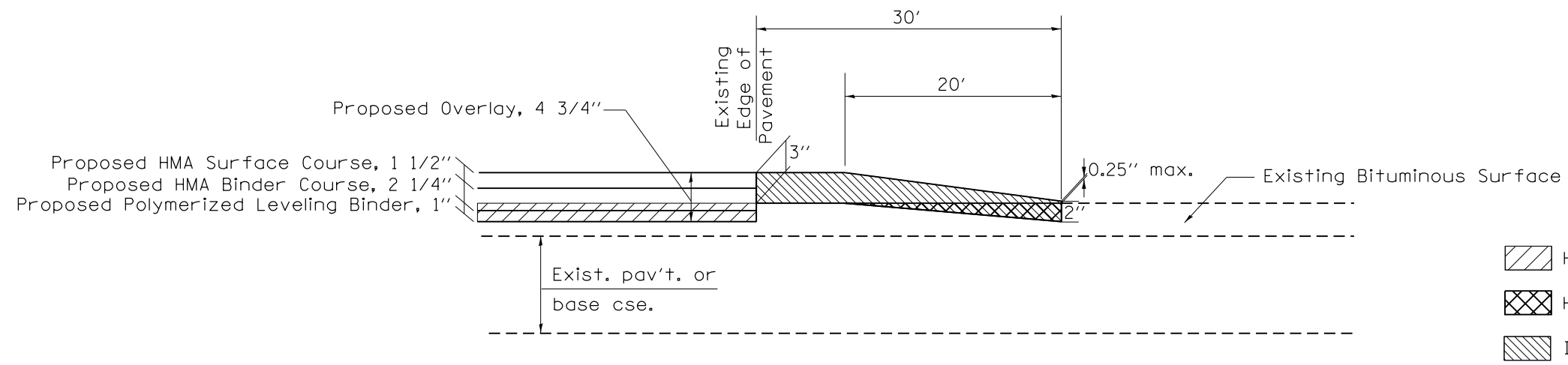
DETAIL at DRIVEWAYS & MAILBOX TURNOUTS




FILE NAME =	USER NAME = everscd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRANSITION, ENTRANCE &amp; MAILBOX TURNOUT DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom\dot\illinois.gov\PWIDOT\Documents\DOT\Office\District 4\Projects\D4_68D00\CADDData\CADsheets\D46800\DRAWING.dgn	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -					22	14RS-5	STARK/HENRY	23	14
Default	PLOT DATE = 5/31/2019	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 68D00				
								ILLINOIS FED. AID PROJECT				



-  HMA SURFACE REMOVAL 1 3/4"
-  HMA SURFACE REMOVAL - BUTT JOINT
-  INCIDENTAL HMA SURFACING

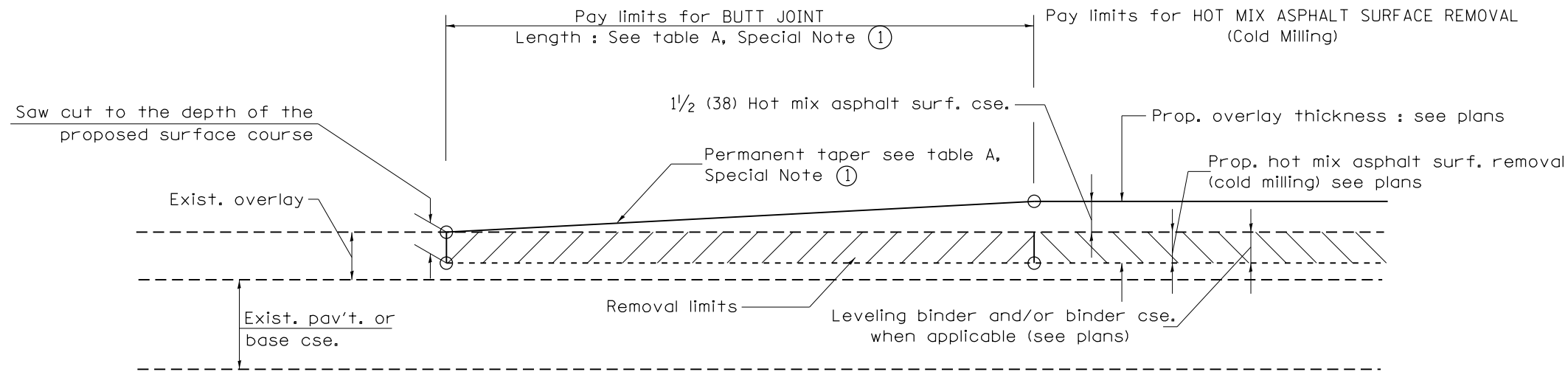
DETAIL at SIDEROADS  
 SOUTH COUNTY ROAD  
 SIDEROAD 1175 N  
 SIDEROAD 1100N (East & West)



-  HMA SURFACE REMOVAL 1 3/4"
-  HMA SURFACE REMOVAL - BUTT JOINT
-  INCIDENTAL HMA SURFACING

DETAIL at SIDEROADS  
 SIDEROAD 950N

FILE NAME =	USER NAME = everscd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SIDEROAD DETAIL</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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											ILLINOIS	FED. AID PROJECT



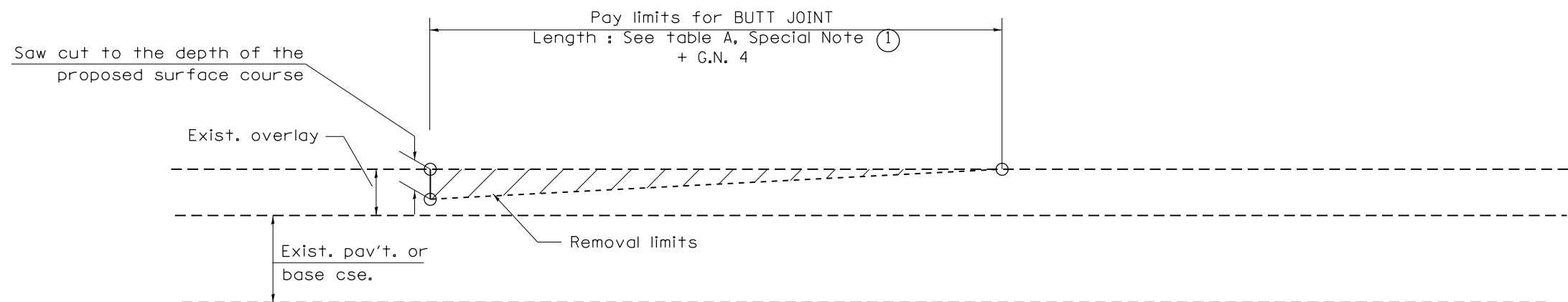
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

**GENERAL NOTES**

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

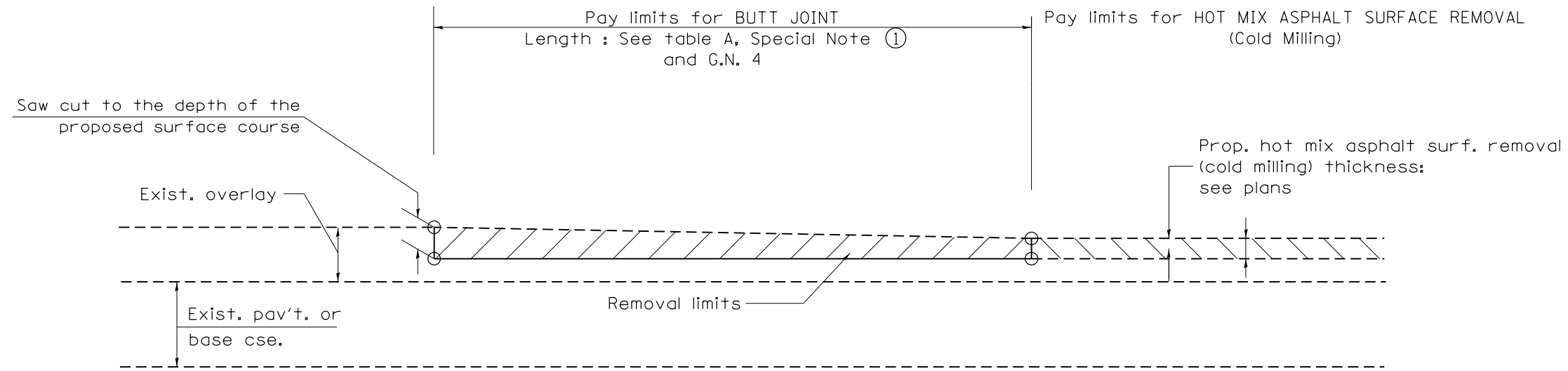
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BUTT JOINTS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-01-97	CORRECTION TO DEPTH	J.A.	02-29-16	MINOR CORRECTIONS	R.D.			22	14RS-5	STARK/HENRY	23	16
09-15-05	REVISED DESIGNER NOTE	M.M.A.	04-12-16	MINOR CORRECTIONS	R.D.			CONTRACT NO. 68D00				
10-16-06	REVISED TO 2007 SPEC.	M.A.	02-14-17	ADDED NOTE 5	R.D.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

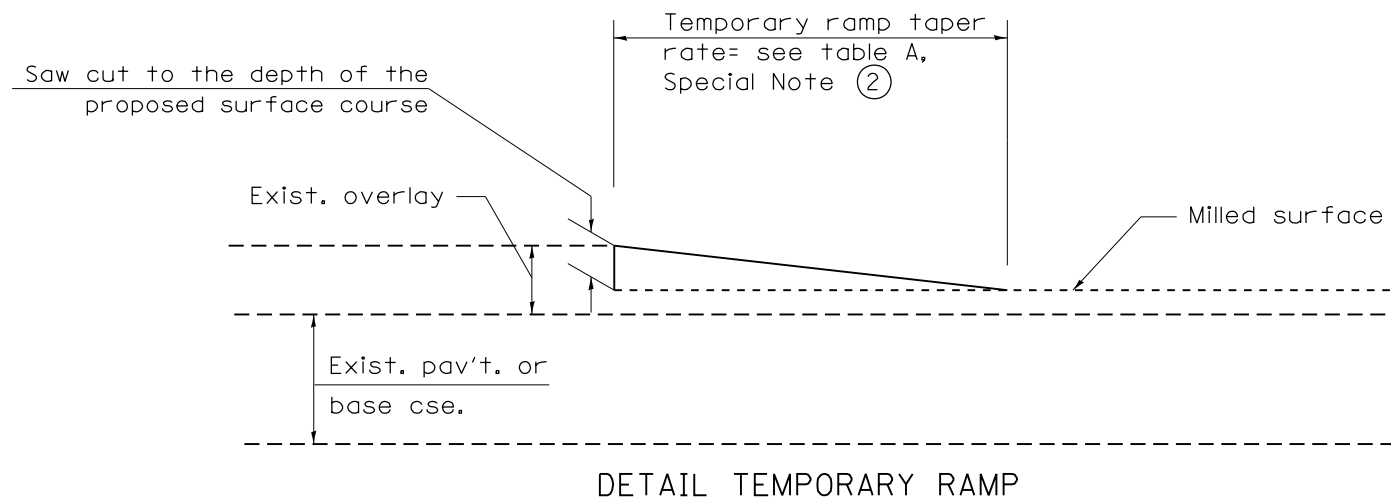
NOT TO SCALE

SHT. 1 OF 3  
CADD STD. 406101-D4





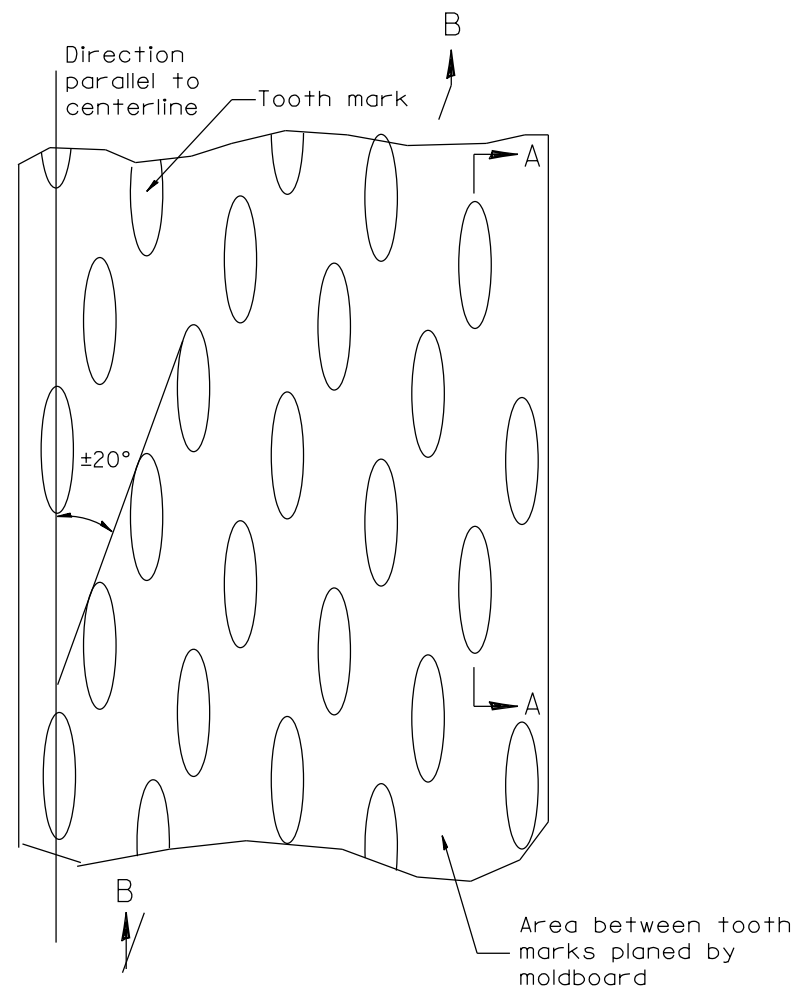
CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER



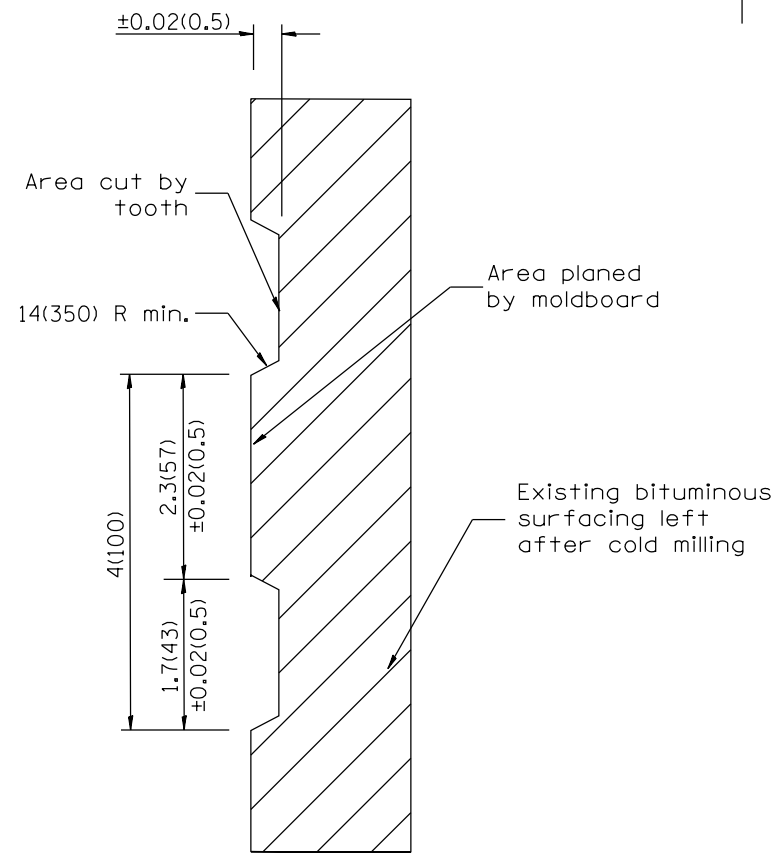
All dimensions are in inches (millimeters) unless otherwise noted.

				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINTS</b>		SHT. 2 OF 3 CADD STD. 406101-D4	
				NOT TO SCALE				CONTRACT NO. 68D00	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
22	14RS-5	STARK/HENRY	23	17					
								ILLINOIS FED. AID PROJECT	

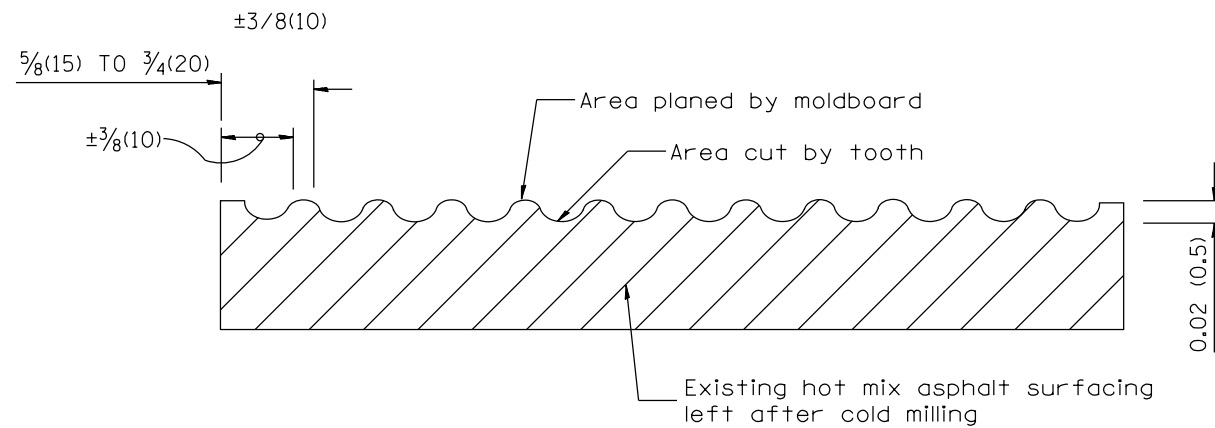




PLAN



SECTION A-A



SECTION B-B PROJECTED  
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

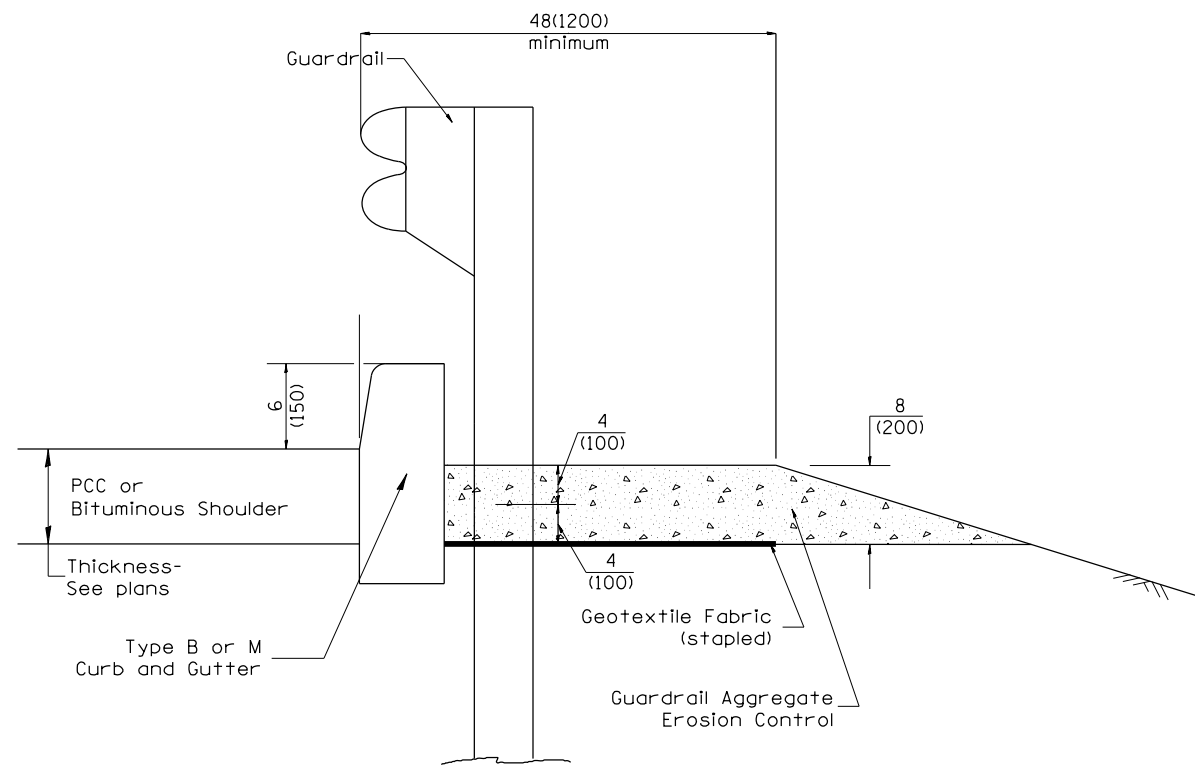
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

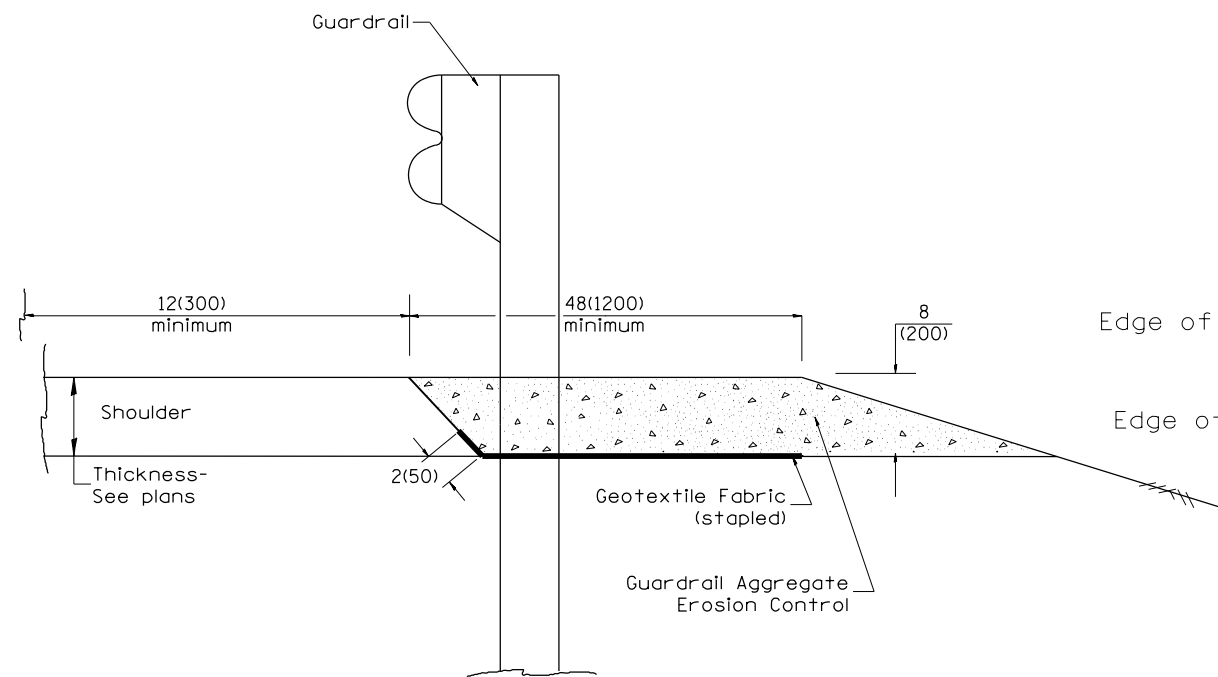
NOT TO SCALE

CADD STD. 440001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	14RS-5	STARK/HENRY	23	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68D00	



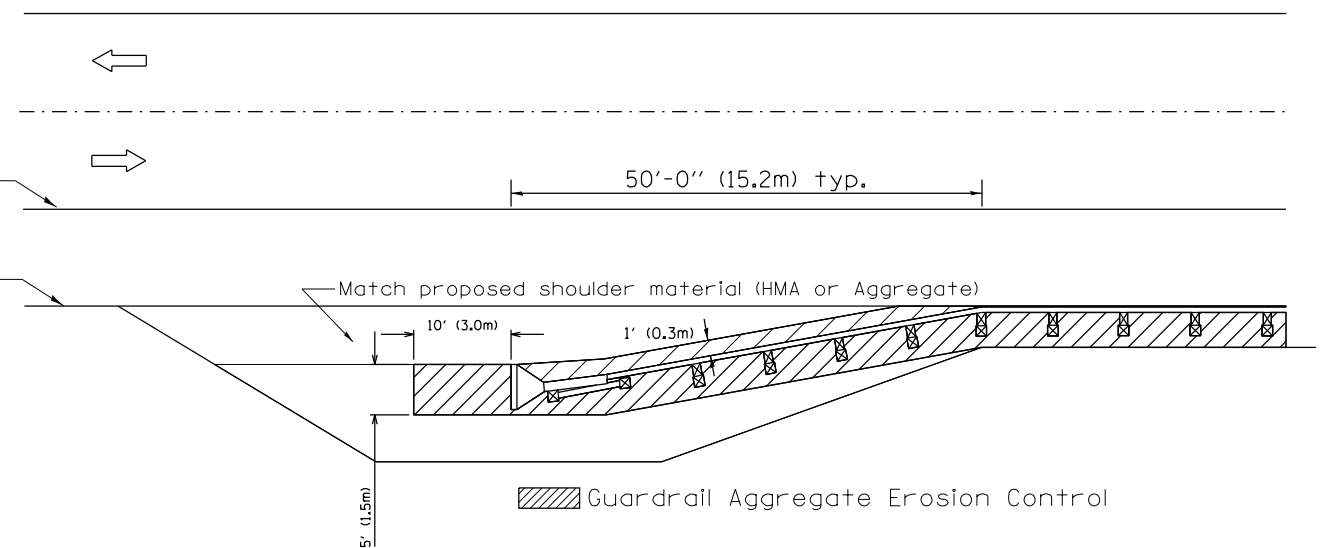
**TYPICAL SECTION WITH EROSION CONTROL CURB**



**TYPICAL SECTION WITHOUT EROSION CONTROL CURB**

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.	03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.
11-03-00	CORRECTION TO NOTES	M.A.	07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	01-26-17	REVISED	R.D.

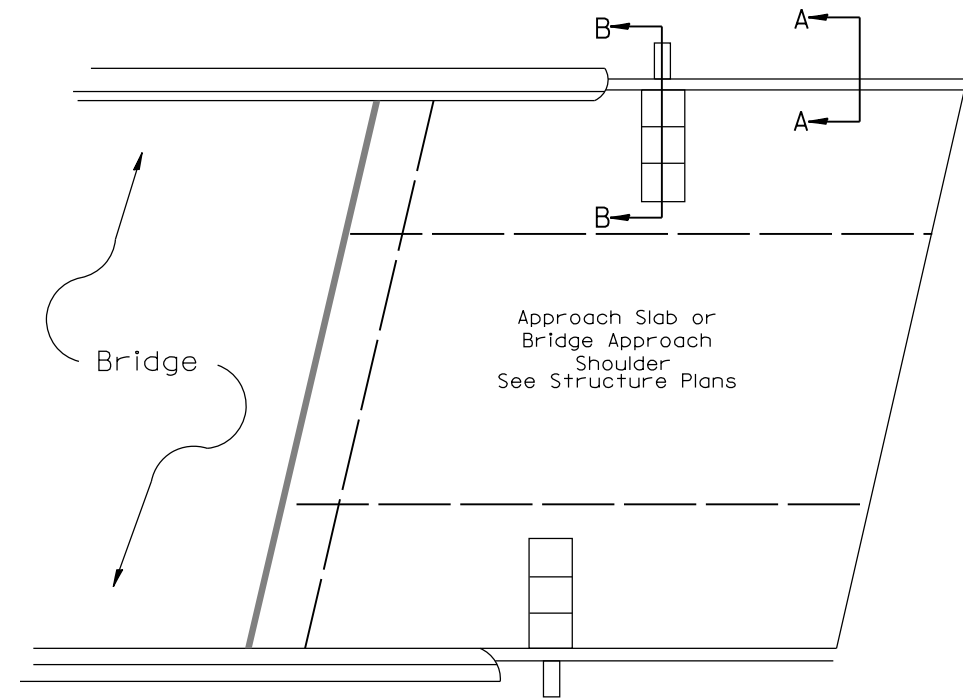
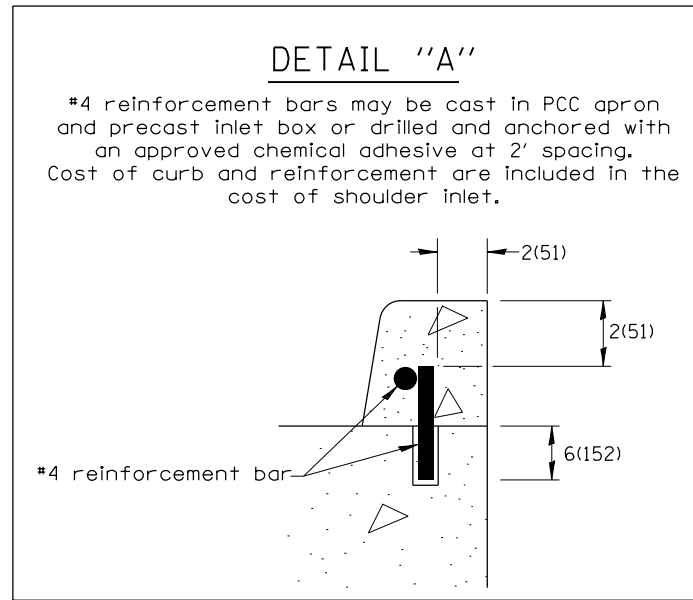
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL EROSION CONTROL TREATMENTS**

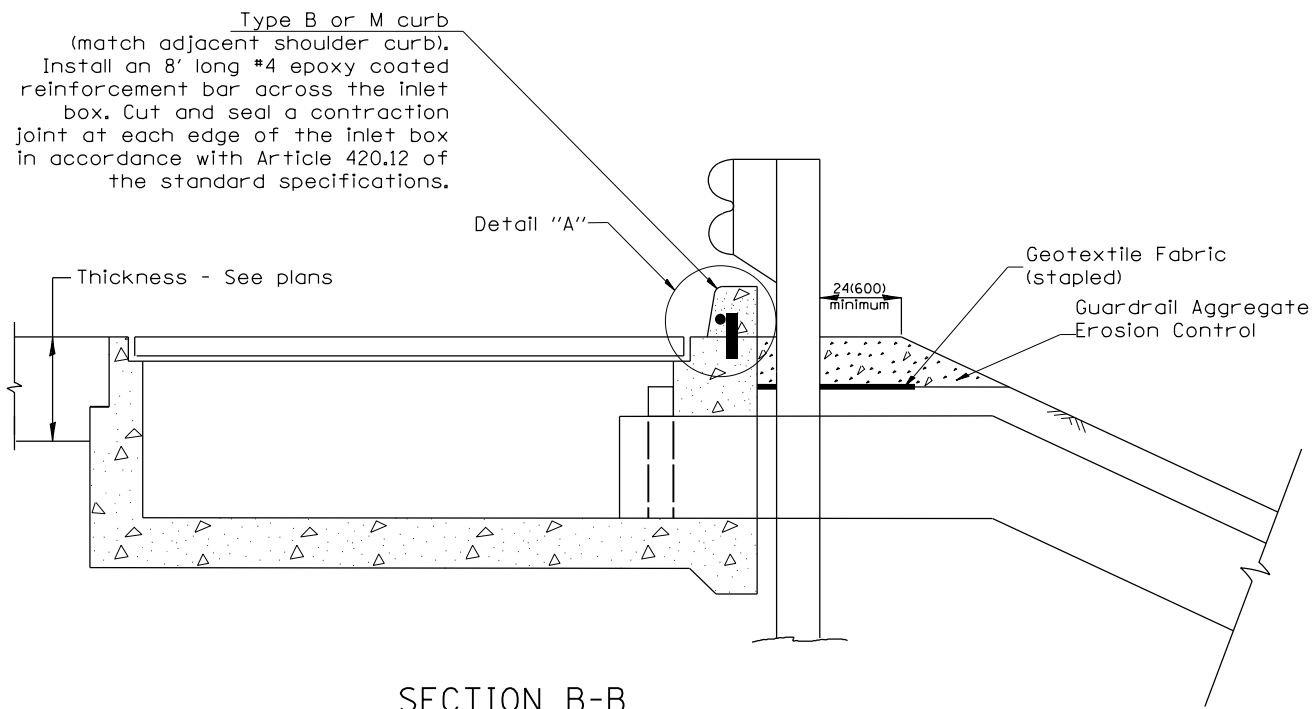
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SHT. 1 OF 2  
CADD STD. 630101-D4

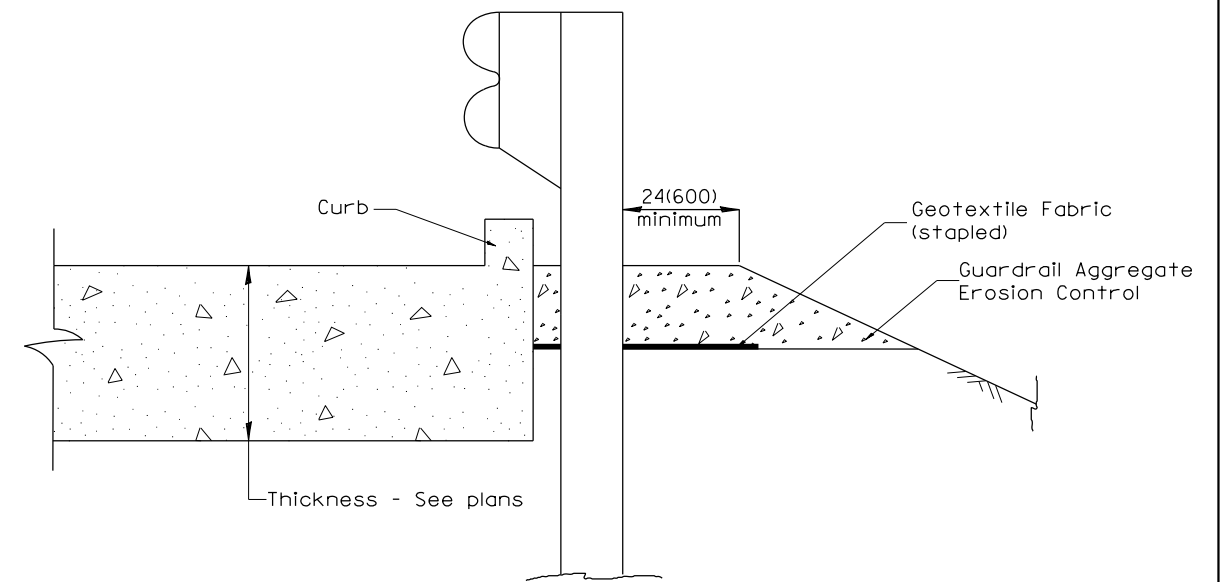
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	14RS-5	STARK/HENRY	23	20
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68D00	



**PLAN VIEW**  
**APPROACH SLAB OR SHOULDER PLACEMENT**



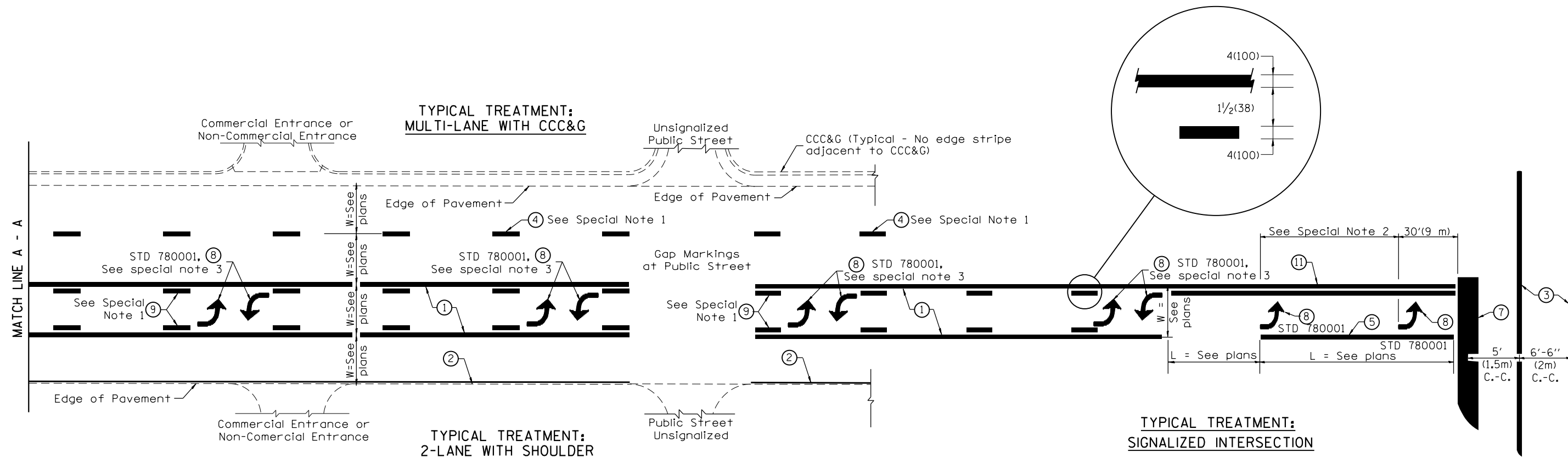
**SECTION B-B**  
**TYPICAL SECTION AT INLETS**  
**TYPE E, F & G (HIGHWAY STANDARD 610001)**



**SECTION A-A**  
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**

All dimensions are in inches (millimeters) unless otherwise noted.

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>GUARDRAIL EROSION CONTROL TREATMENTS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				NOT TO SCALE				22	14RS-5	STARK/HENRY	23	21
				SHT. 2 OF 2 CADD STD. 630101-D4				CONTRACT NO. 68D00				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:  
Through Arrow= 14.8 sq. ft.  
Large Left or Right Arrow= 21.9 sq. ft.  
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.  
Wrong Way Arrow= 29.5 sq. ft.  
Railroad Crossing Symbol= 69.8 sq. ft.  
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS**

SHT. 1 OF 2  
CADD STD. 780001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	14RS-5	STARK/HENRY	23	22
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68D00	

