

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	1
		ILLINOIS	CONTRACT NO. 74986	

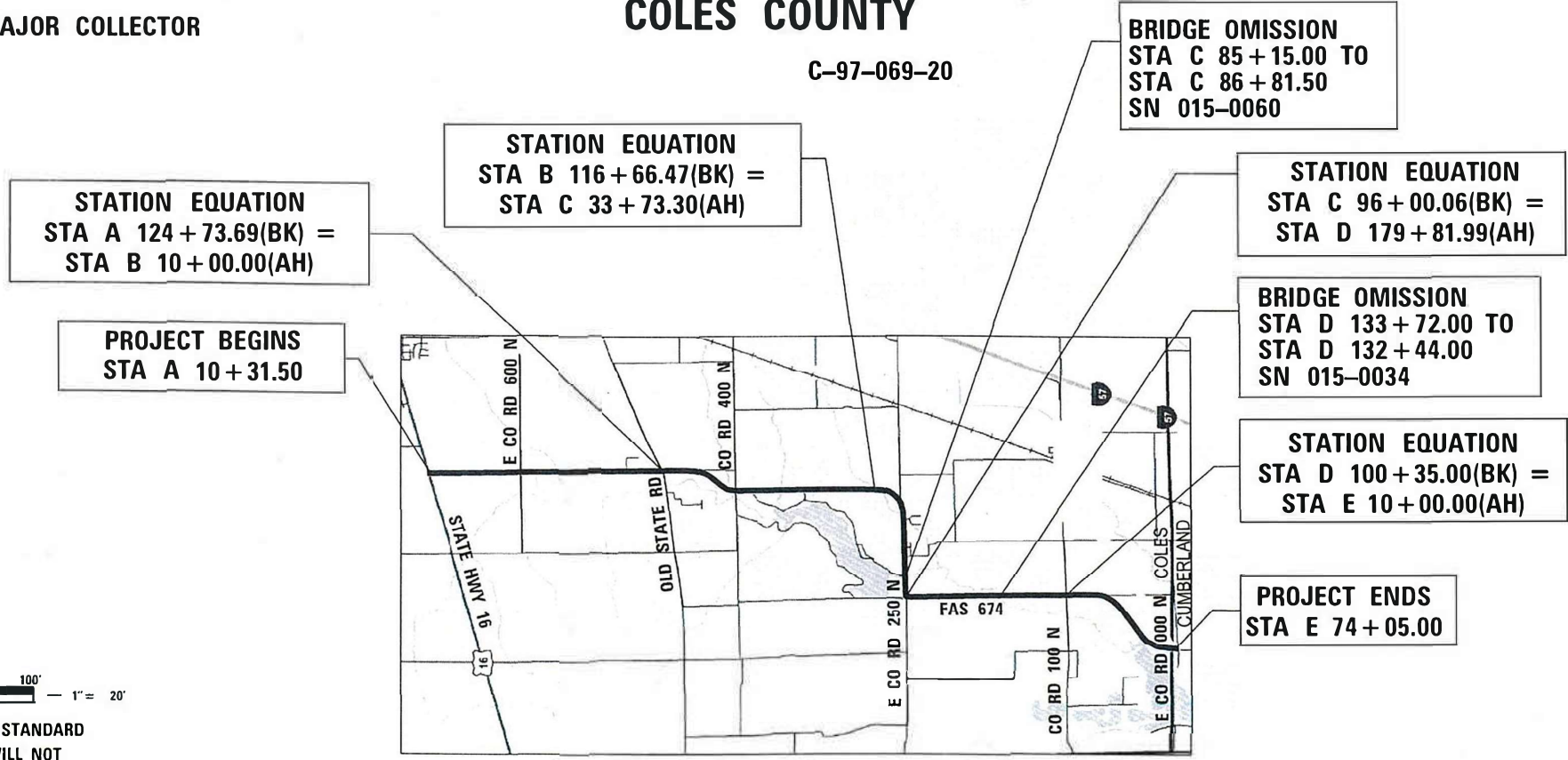
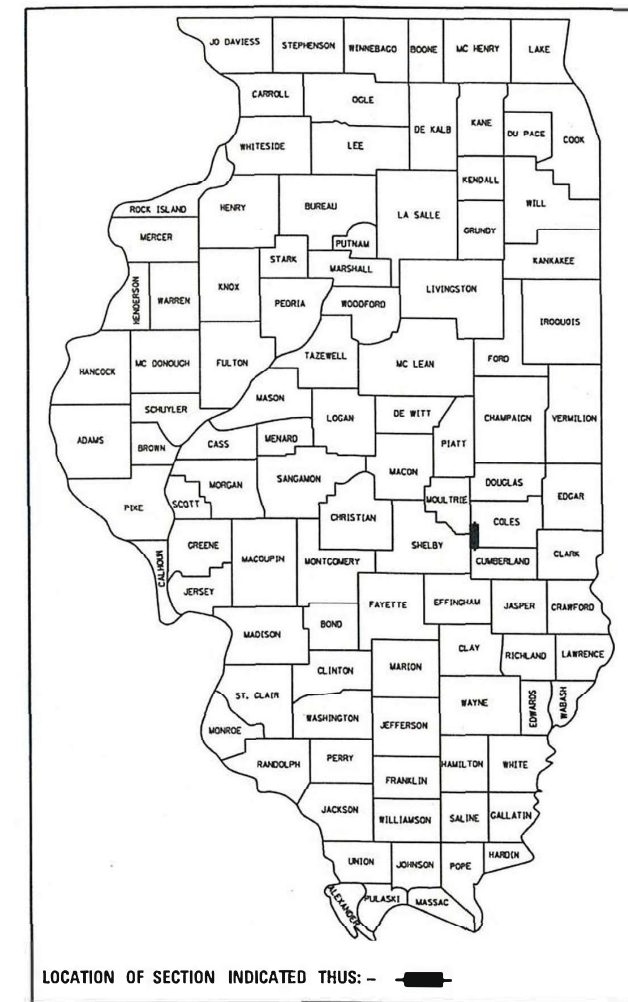
FOR INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAS ROUTE 674 (LAKE PARADISE RD)  
SECTION D7 HMA RESURF 2024-1  
PROJECT STP-76YN(677)  
RESURFACING (3P)  
COLES COUNTY

ADT = 1,950 (2019)  
FUNCTIONAL CLASSIFICATION=MAJOR COLLECTOR

D-97-063-20



STATION EQUATION  
STA A 124 + 73.69(BK) =  
STA B 10 + 00.00(AH)

PROJECT BEGINS  
STA A 10 + 31.50

STATION EQUATION  
STA B 116 + 66.47(BK) =  
STA C 33 + 73.30(AH)

BRIDGE OMISSION  
STA C 85 + 15.00 TO  
STA C 86 + 81.50  
SN 015-0060

STATION EQUATION  
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STA D 179 + 81.99(AH)

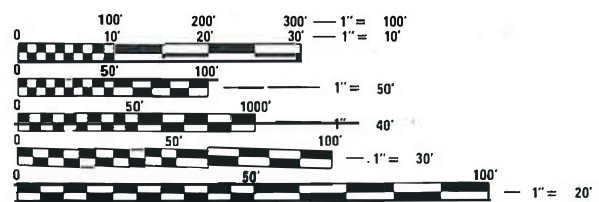
BRIDGE OMISSION  
STA D 133 + 72.00 TO  
STA D 132 + 44.00  
SN 015-0034

STATION EQUATION  
STA D 100 + 35.00(BK) =  
STA E 10 + 00.00(AH)

PROJECT ENDS  
STA E 74 + 05.00

LOCATION MAP

GROSS LENGTH = 42,688 FT. = 8.08 MILES  
NET LENGTH = 42,393 FT. = 8.03 MILES



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: MATT BOWER (217) 342-8359  
PROJECT MANAGER: BENJAMIN DETERS (217)-342-8361

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS  
DECATUR, IL    SCHAUMBURG, IL  
ROCKFORD, IL    CHAMPAIGN, IL  
PARIS, IL    LAFAYETTE, IN  
PADUCAH, KY  
(833) 424-2782    184-001397



*Corey M. Franzen* 2/16/24  
COREY M. FRANZEN, P.E. DATE  
LICENSE EXPIRES 11/30/25

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED FEBRUARY 7 2024  
*Jeffrey P. Myrals*  
REGIONAL ENGINEER

March 22, 2024  
*Scott A. Etk*  
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024  
*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

CONTRACT NO. 74986

**INDEX OF SHEETS**

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**HIGHWAY STANDARDS**

STD. NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
420001-10	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-13	STEEL PLATE BEAM GUARDRAIL
630101-11	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630111-01	WEAK POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
631066	TRAFFIC BARRIER TERMINAL, TYPE 14
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS-DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES**

A TOPOGRAPHIC SURVEY HAS NOT BEEN PERFORMED AS PART OF THIS PROJECT. ALL STATIONING AND DIMENSIONS SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL ITEMS AND COORDINATE WITH THE ENGINEER FOR LAYOUT AND QUANTITY OF ITEMS AS REQUIRED.

THE MATERIAL USED FOR AGGREGATE SURFACE COURSE, TYPE B AND AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

HOT MIX ASPHALT	112 LB/SQ YD/IN
GRANULAR MATERIAL	1.80 TONS/CU YD

THE WORK INCLUDED IN SECTION (D7 HMA RESURF 2024-1) CONSISTS OF PATCHING, RESURFACING WITH HMA, HMA AND AGGREGATE SHOULDERS, GUARDRAIL REPLACEMENT, PAVEMENT MARKINGS, AND OTHER WORK NECESSARY TO COMPLETE SECTION.

THE PROPOSED PROJECT BEGINS 2.5 MILES WEST OF MATTOON, AT THE INTERSECTION OF LAKE RD. AND IL ROUTE 16, AND CONTINUES ON FAS 674 TO THE CUMBERLAND COUNTY LINE.

EXISTING UTILITIES HAVE NOT BEEN LOCATED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATIONS FROM THE UTILITY COMPANY AND BY FIELD INSPECTION. THE CONTRACTOR IS REQUIRED TO CONTACT J.U.L.I.E. AT 1-800-892-0123 PRIOR TO PROCEEDING WITH ANY EXCAVATION AND WORK ON THE PROJECT.

ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.

IF THE PROPOSED SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE NEAR CENTERLINE GREATER THAN 1.5 INCHES OR IF THE PROPOSED RESURFACING RESULTS IN AN ELEVATION DIFFERENCE GREATER THAN 2 INCHES NEAR THE CENTERLINE BETWEEN ADJACENT OPEN LANES OF TRAFFIC, ONE OF THE FOLLOWING SHALL APPLY:

- THE CONTRACTOR SHALL ORGANIZE THE WORK TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
- THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HOT MIX ASPHALT WEDGE ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
- THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPE EDGE (MINIMUM 1:3) ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL OF THE DEPTH SPECIFIED AND IN THE COST PER TON FOR THE HOT-MIX ASPHALT RESURFACING MIXES SPECIFIED IN THE PLANS.

THE CONTRACTOR SHALL MILL THROUGH CONCRETE PATCHES IN ACCORDANCE WITH SECTION 440. THIS WORK WILL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL, OF THE DEPTH SPECIFIED AT THE REMOVAL LOCATION.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MX ASPHALT, CONCRETE, OR OIL AND CHIP SURFACES. THE SAW CUT SHALL BE MADE THE SAME DEPTH AS THE SPECIFIED SURFACE REMOVAL. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL INSTALL GUARDRAIL REFLECTORS AT ALL NEW GUARDRAIL INSTALLATION LOCATIONS, AS WELL AS ON NEW BRIDGE RAIL AND EXISTING BRIDGE PARAPETS WITHIN THE LIMITS OF THE PROJECT. INSTALLATION SHALL BE ACCORDING TO HIGHWAY STANDARD 782006.

QUANTITIES FOR CLASS D PATCHING HAVE BEEN ESTIMATED. EXACT LOCATIONS, SIZES, AND QUANTITY OF PATCHING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

GROOVES FOR LETTERS AND SYMBOLS SHALL BE CUT IN THE SHAPE OF THE LETTERS AND SYMBOLS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

LOCATIONS	MIXTURE USE(S)	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	MIXTURE WEIGHT	QUALITY MANAGEMENT PROGRAM	SUBLOT SIZE	MATERIAL TRANSFER DEVICE (REQUIRED?)
MAINLINE	HMA SURFACE COURSE, 1L-9.5, MIX "C", N70 (2")	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	N70	PFP	1000	N/A
MAINLINE	HMA BINDER COURSE, 1L-9.5FG, N70 (1¾")	PG 64-22	4.0% @ N=70	1L - 9.5FG	N/A	N70	PFP	1000	N/A
8" SHOULDER	HMA BINDER COURSE, 1L-19.0, N70 (BOTTOM LIFTS)	PG 64-22	4.0% @ N=70	1L - 19.0	N/A	N70	QC/QA	3000	N/A
8" SHOULDER	HMA SURFACE COURSE, 1L-9.5, MIX "C", N70 (TOP LIFTS)	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	N70	QC/QA	3000	N/A
PATCHING	HMA BINDER COURSE, 1L-19.0, N70	PG 64-22	4.0% @ N=70	1L - 19.0	N/A	N70	QC/QA	3000	N/A
INCIDENTAL	HMA SURFACE COURSE, 1L-9.5, MIX "C", N70	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	N70	QC/QA	3000	N/A

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET OF SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	2
CONTRACT NO. 74986			ILLINOIS FED. AID PROJECT	

80% FED  
20% STATE

CONSTR. CODE

FAS 674

ROADWAY

0005

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	64	64
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	18	18
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	181	181
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	72840	72840
40600370	LONGITUDINAL JOINT SEALANT	FOOT	42393	42393
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	467	467
40600990	TEMPORARY RAMP	SQ YD	759	759
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	10552	10552
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	12104	12104
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	527	527
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	85474	85474
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	20276	20276
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	172	172

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	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 1 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	3
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

80% FED  
20% STATE

CONSTR. CODE

FAS 674

ROADWAY

0005

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	55	55
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	2360	2360
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	525	525
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1350	1350
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1736	1736
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1593	1593
* 50900207	STEEL RAILING, TYPE CO-10	FOOT	250	250
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2050	2050
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	44	44
* 63000052	WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE III	FOOT	44	44
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	175	175
* 63100119	TRAFFIC BARRIER TERMINAL, TYPE 14	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	24	24

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: \_\_\_\_\_ SHEET 2 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	4
			CONTRACT NO. 74986	
		ILLINOIS	FED. AID PROJECT	

80% FED  
20% STATE

CONSTR. CODE

FAS 674

ROADWAY

0005

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
63200310	GUARDRAIL REMOVAL	FOOT	3726	3726
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	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
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	72468	72468
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	24203	24203
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	24	24
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	81	81
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2311	2311
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	146	146

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
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SUMMARY OF QUANTITIES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: \_\_\_\_\_ SHEET 3 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	5
			CONTRACT NO. 74986	
ILLINOIS FED. AID PROJECT				

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20% STATE

CONSTR. CODE

FAS 674

ROADWAY

0005

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	482	482
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	32	32
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	118453	118453
* 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	89	89
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	2311	2311
* 78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	146	146
* 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	482	482
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	32	32
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	709	709
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	64	64
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SQ YD	2399	2399
X2040805	FURNISHED EXCAVATION (SPECIAL)	CU YD	251	251
X4060995	TEMPORARY RAMP (SPECIAL)	SQ YD	283	283

\* SPECIALTY ITEM

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	DATE - 10-05-2023	REVISED - _____

STATE OF ILLINOIS  
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SUMMARY OF QUANTITIES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: \_\_\_\_\_ SHEET 4 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74986	

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FAS 674
ROADWAY
0005
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1744	1744
X4402805	ISLAND REMOVAL	SQ FT	363	363
X6061800	CONCRETE MEDIAN, TYPE SB (DOWELLED)	SQ FT	114	114
* X6310187	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)	EACH	3	3
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	232	232
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	3	3
Z0055500	RUMBLE STRIP	SQ FT	1200	1200

\* SPECIALTY ITEM

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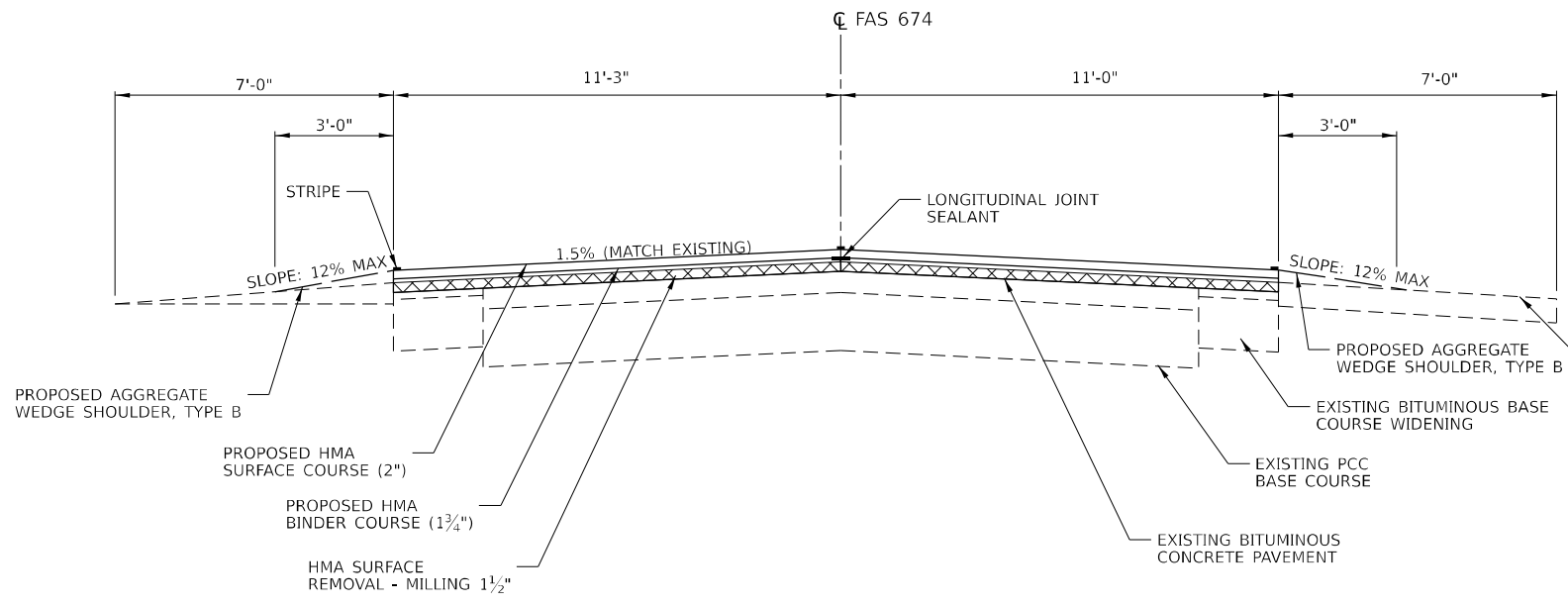
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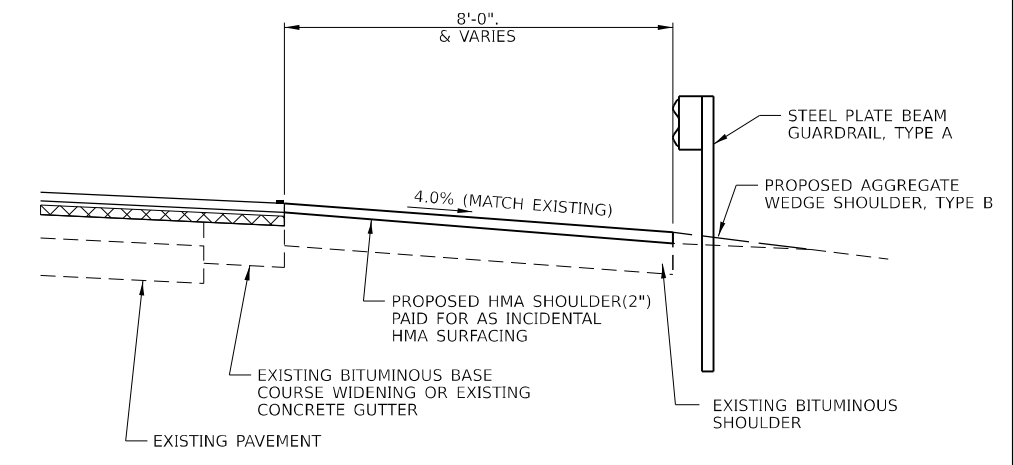
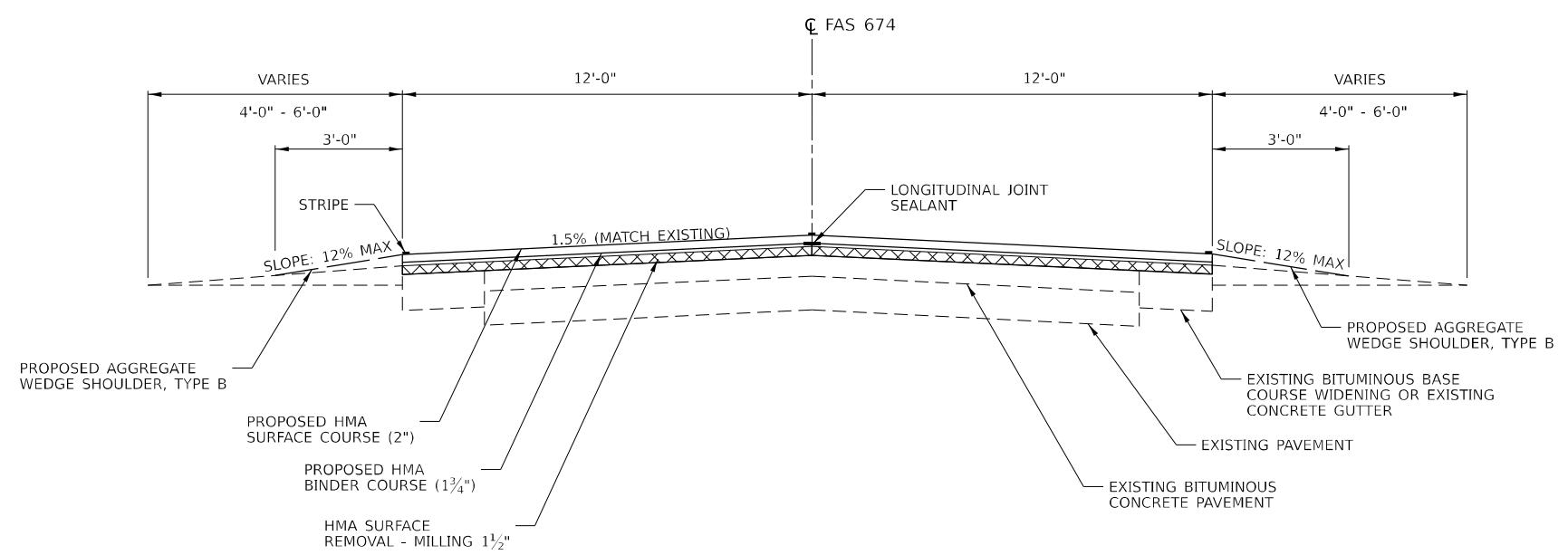
SUMMARY OF QUANTITIES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: \_\_\_\_\_ SHEET 5 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

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674	D7 HMA RESURF 2024-1	COLES	48	7
				CONTRACT NO. 74986
				ILLINOIS FED. AID PROJECT



EXISTING AGGREGATE SHOULDER AT STATION	TO STATION
50+00.00	54+57.00
74+17.00	81+25.00
94+78.00	96+30.00
99+17.00	120+55.00



RESURFACE OMISSION: S.N. 015-0060	STA. C 85+15.00 TO C 86+81.50

NOTE: SUPERELEVATION TRANSITIONS OUTSIDE THE LIMITS OF HORIZONTAL CURVATURE INCLUDED WITHIN THE LISTED STATION RANGES. SEE PLAN SHEETS FOR PAVED SHOULDER LOCATIONS.

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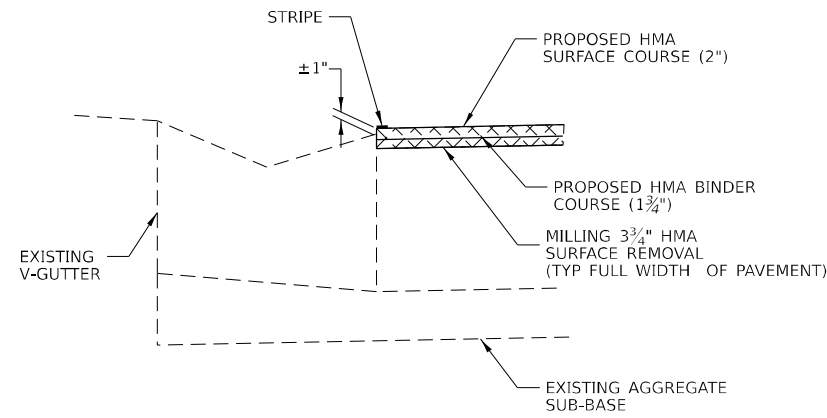
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PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE			
SCALE: _____	SHEET 1	OF 3 SHEETS	STA. TO STA.

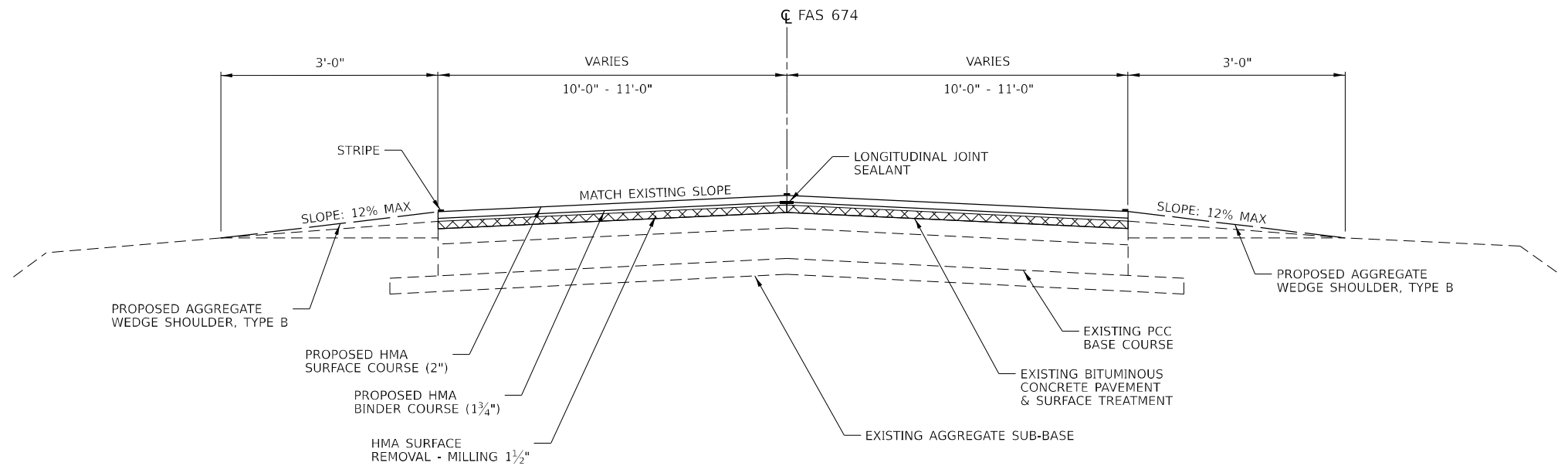
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	8
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				





**TYPICAL GUTTER DETAILS**

STATION	TO	STATION
D 179+81.99 LT		D 177+10.00 LT
D 179+81.99 RT		D 173+10.00 RT
E 21+80.00 RT		E 22+60.32 RT
E 38+54.74 RT		E 39+50.00 RT
E 53+80.00 LT		E 54+56.01 LT
E 69+72.11 LT		E 70+80.00 LT

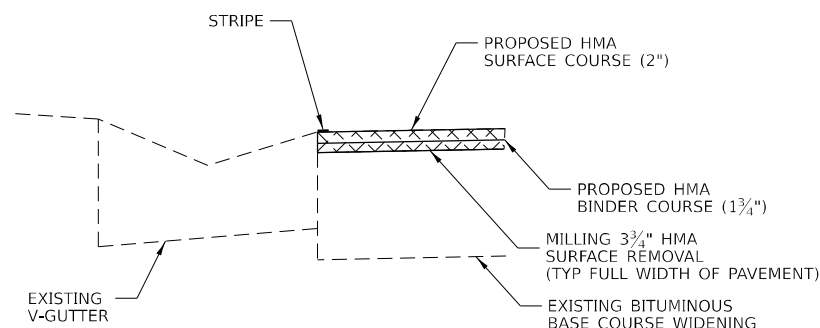


**EXISTING AND PROPOSED TYPICAL SECTION**

STATION	TO	STATION
D 179+81.99		D 100+35.00
E 10+00.00		E 22+60.32
E 38+54.74		E 54+56.01
D 69+72.11		E 74+05.00

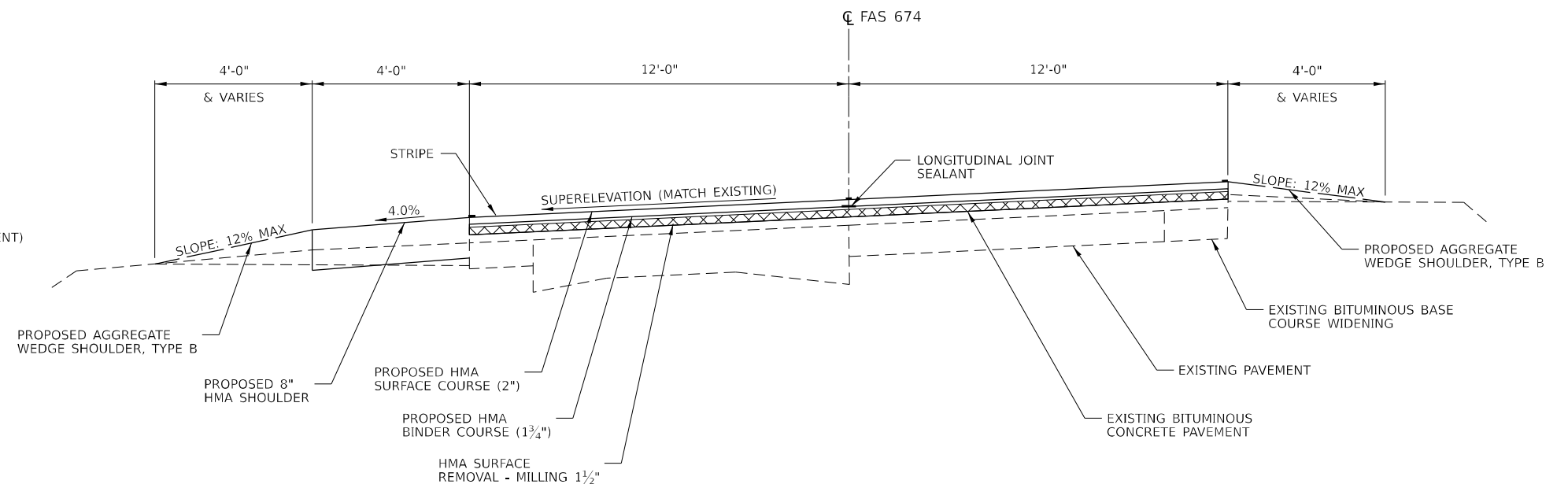
NOTE: SUPERELEVATION TRANSITIONS OUTSIDE THE LIMITS OF HORIZONTAL CURVATURE INCLUDED WITHIN THE LISTED STATION RANGES. SEE PLAN SHEETS FOR GUTTER LOCATIONS.

RESURFACE OMISSION: S.N. 015-0034  
STA. D 132+44.00 TO D 133+72.00



**TYPICAL GUTTER DETAILS**

STATION	TO	STATION
C 36+00.00		C 43+25.00



**EXISTING AND PROPOSED TYPICAL SECTION**

STATION	TO	STATION
B 23+83.98		B 33+89.93
B 39+59.75		B 49+26.76
C 35+14.80		C 54+00.52

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

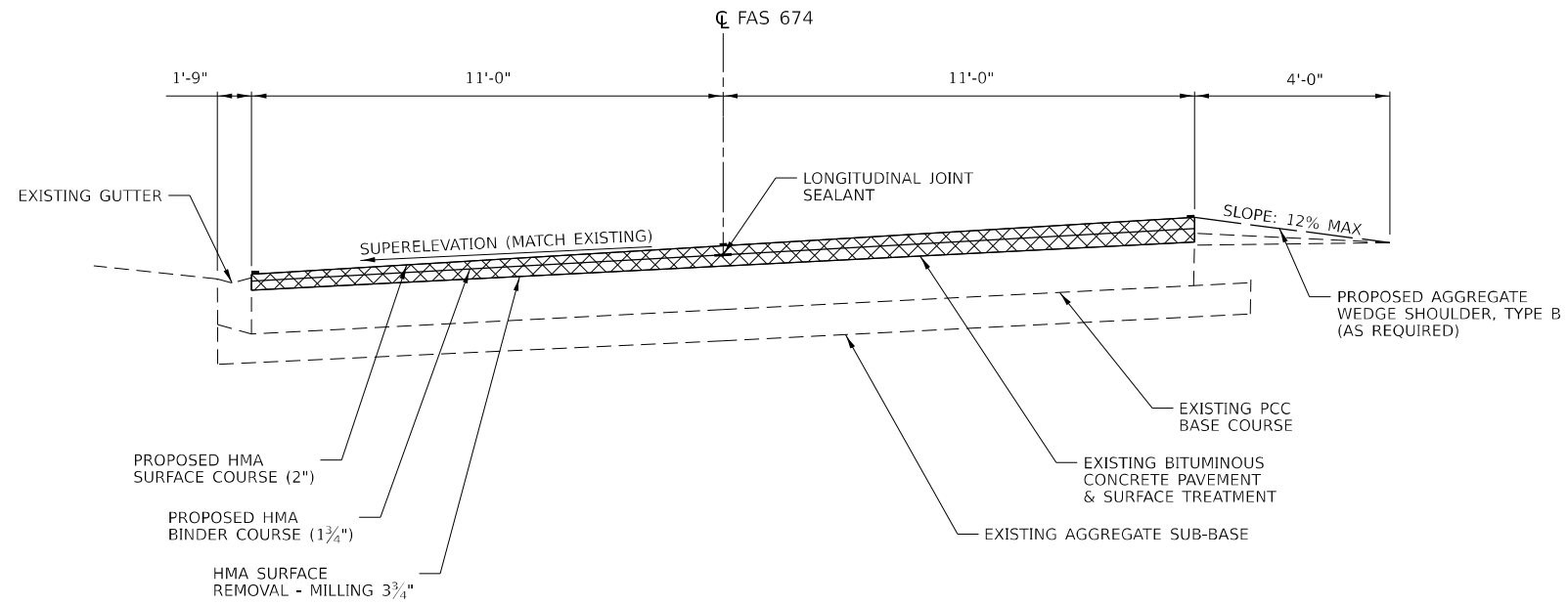
SCALE: \_\_\_\_\_ SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	9
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

MODEL Default  
FILE NAME: C:\Users\switt\Desktop\SUBMIT\074986-rlt-cytr\1.dgn

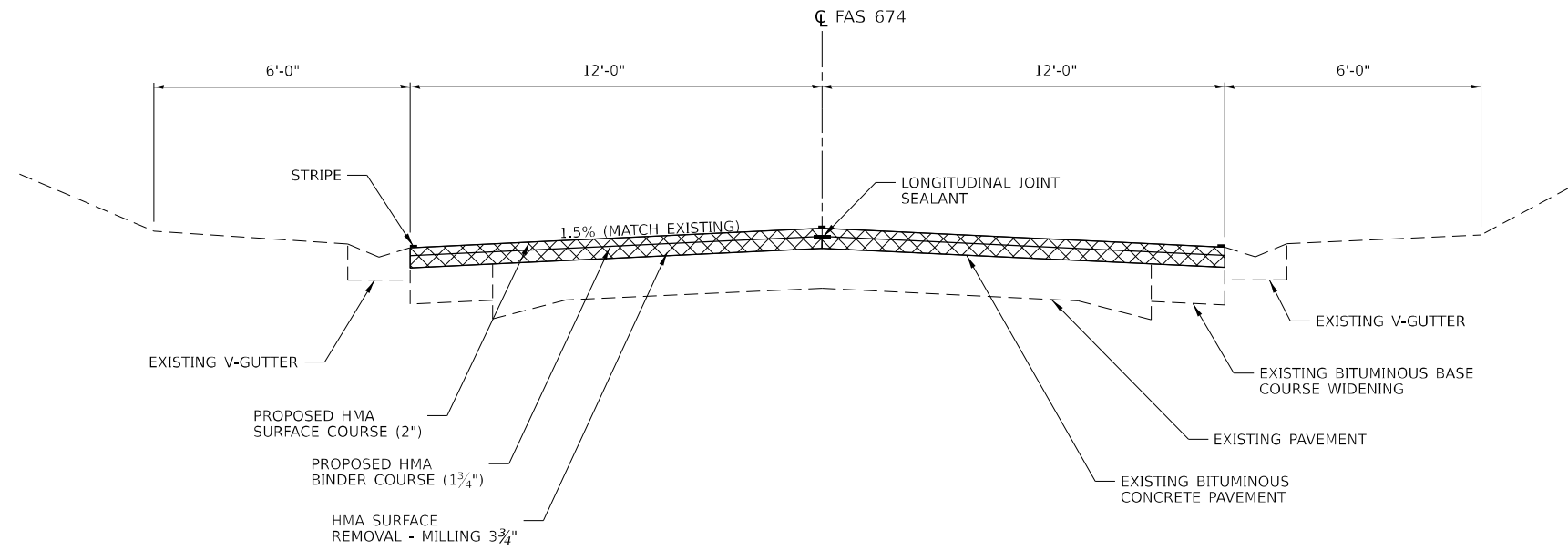
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = switt	DESIGNED - HEK	REVISED - _____
PLOT SCALE = 0.167" / in.	DRAWN - HEK	REVISED - _____
PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____



**EXISTING AND PROPOSED TYPICAL SECTION**

STATION TO STATION  
 E 22+60.32 E 38+54.74  
 E 54+56.01 E 69+72.11



**EXISTING AND PROPOSED TYPICAL SECTION**

STATION TO STATION  
 C 66+80.00 C 79+30.00  
 C 88+30.00 C 96+00.06

Model: Default  
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USER NAME = switt	DESIGNED - HEK	REVISED - _____
	DRAWN - HEK	REVISED - _____
PLOT SCALE = 0.167' / in.	CHECKED - CMF	REVISED - _____
PLOT DATE = 2/5/2024	DATE - 10-05-2023	REVISED - _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	10
CONTRACT NO. 74986				
		ILLINOIS	FED. AID PROJECT	



MAINLINE RESURFACING SCHEDULE																	
STATION	TO	STATION	LENGTH	AVERAGE PAVEMENT WIDTH	HMA SURFACE REMOVAL - BUTT JOINT 40600982	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" 44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" 44000164	HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH X4401198	BITUMINOUS MATERIALS (TACK COAT) 40600290	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 40604052	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70 40602970	LONGITUDINAL JOINT SEALANT 40600370	AGGREGATE WEDGE SHOULDER, TYPE B 48102100	HOT-MIX ASPHALT SHOULDERS, 8" 48203029	TEMPORARY RAMP 40600990	EXCAVATING AND GRADING EXISTING SHOULDER 20200600	
			FOOT	FOOT	SQ YD	SQ YD	SQ YD	SQ YD	POUND	TON	TON	FOOT	TON	SQ YD	SQ YD	UNIT	
88+30.00	TO	96+00.06	770.1	24.0			2053.5		1386.1	230.0	201.2	770.1					
E CO RD 250 N																	
STA.96+00.006 BK = STA. 179+81.99 AH																	
179+81.99	TO	173+10.00	672.0	20.0			1493.3		1008.0	167.3	146.3	672.0					
173+10.00	TO	172+65.00	45.0	20.0				100.0	67.5	11.2	9.8	45.0	2.0				
172+65.00	TO	134+25.40	3839.6	20.0		8532.4			5759.4	955.6	836.2	3839.6	172.8				
134+25.40	TO	133+72.00	53.4	20.0	118.7				60.9	14.5	2.6	53.4	2.4		14.8		
BRIDGE OMISSION SN 015-0034																	
132+44.00	TO	131+90.60	53.4	20.0	118.7				60.9	14.5	2.6	53.4	2.4		14.8		
131+90.60	TO	100+35.00	3155.6	20.0		7012.4			4733.4	785.4	687.2	3155.6	142.0				
STA.100+35.00 BK = STA. 10+00.00 AH																	
10+00.00	TO	21+35.00	1135.0	22.0		2774.4			1872.8	310.7	271.9	1135.0	51.1				
21+35.00	TO	21+80.00	45.0	22.0				110.0	74.3	12.3	10.8	45.0	2.0				
21+80.00	TO	22+60.32	80.3	22.0		196.3			132.5	22.0	19.2	80.3	1.1				
22+60.32	TO	38+54.74	1594.4	22.0		3913.9			2665.7	442.3	387.0	1594.4	21.3				
38+54.74	TO	39+50.00	95.3	22.0		232.9			157.2	26.1	22.8	95.3	1.3				
39+50.00	TO	39+95.00	45.0	22.0				110.0	74.3	12.3	10.8	45.0	2.0				
39+95.00	TO	53+35.00	1340.0	22.0		3275.6			2211.0	366.9	321.0	1340.0	60.3				
53+35.00	TO	53+80.00	45.0	22.0				110.0	74.3	12.3	10.8	45.0	2.0				
53+80.00	TO	54+56.01	76.0	22.0		185.8			125.4	20.8	18.2	76.0	1.0				
54+56.01	TO	69+72.11	1516.1	22.0		3706.0			2501.6	415.1	363.2	1516.1	20.2				
69+72.11	TO	70+80.00	107.9	22.0		263.7			178.0	29.5	25.8	107.9	1.4				
70+80.00	TO	71+25.00	45.0	22.0				110.0	74.3	12.3	10.8	45.0	2.0				
71+25.00	TO	73+60.00	235.0	22.0		574.4			387.8	64.3	56.3	235.0	10.6				
73+60.00	TO	74+05.00	45.0	22.0	110.0				57.8	13.3	2.8	45.0	2.0		16.3		
					Total	467	85474	20276	1744	72840	12104	10552	42393	1736	1593	341	36

NOTE: AGGREGATE WEDGE SHOULDER QUANTITIES HAVE BEEN COMPUTED CONTINUOUSLY THROUGH ALL ENTRANCES AND SIDE ROAD APPROACHES, EXCEPT WHERE FULL DEPTH SURFACE REMOVAL OCCURS. A 1.2 MULTIPLIER HAS ALSO BEEN INCLUDED TO ACCOUNT FOR VARIABLE WIDTHS OF THE WEDGE, EXISTING SHOULDER SETTLEMENT, AND SHOULDER EROSION.

MODEL: D:\p\ch\... FILE NAME: I:\DOT\8636 D7\4r\10\8636\03 - 10 2 - Lake Paradise Road Resurfacing\Submittals\20240206 FSE\ E TO D7\IGMS\Sheets\ID74986-ent-schedule.dgn



USER NAME = switt	DESIGNED - HEK	REVISED - _____
	DRAWN - HEK	REVISED - _____
PLOT SCALE = 0.167' / in.	CHECKED - CMF	REVISED - _____
PLOT DATE = 2/6/2024	DATE - 10-05-2023	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: _____		SHEET 2 OF 10 SHEETS		STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT	

F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 12
CONTRACT NO. 74986				

SIDE ROAD & ENTRANCE SCHEDULE

DESCRIPTION	STATION	L/R	RAMP (Y/N)	MATERIAL	LENGTH "L"	WIDTH @ EOP	WIDTH @ "L"	AREA	INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050	EXCAVATING AND GRADING EXISTING SHOULDER 20200600	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) X0326440	AGGREGATE SURFACE COURSE, TYPE B 40200800	TEMPORARY RAMP 40600990	TEMPORARY RAMP(SPECIAL) X4060995
					FEET	FEET	FEET	SQ FT	TON	UNIT	SQ YD	TON	SQ YD	SQ YD
FE	14+39.40	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	17+21.29	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	27+83.77	LT	N	AGG	10.0	56.0	36.0	460.0				1.9		
FE	27+86.81	RT	N	AGG	10.0	56.0	36.0	460.0				1.9		
FE	40+14.09	RT	N	AGG	10.0	56.0	36.0	460.0				1.9		
PE	40+72.15	RT	N	AGG	10.0	44.0	24.0	340.0	2.4	0.4		1.4		
PE	42+13.82	RT	N	AGG	10.0	40.0	20.0	300.0	2.2	0.4		1.2		
FE	42+66.85	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	45+25.80	RT	N	AGG	10.0	70.0	50.0	600.0				2.5		
FE	45+79.63	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	46+10.74	RT	N	AGG	10.0	37.0	17.0	270.0	2.0	0.4		1.1		
PE	47+94.52	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	50+33.47	RT	N	HMA	10.0	34.0	14.0	240.0	3.4		26.7			
PE	51+16.11	RT	N	HMA	10.0	40.0	20.0	300.0	4.2		33.3			
PE	52+32.07	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	53+54.21	RT	N	AGG	10.0	34.0	14.0	240.0	1.8	0.3		0.9		
E CO RD 600 N	54+55.95	RT	N	O&C	10.0	92.0	42.0	574.0	8.0		63.8			17.0
E CO RD 600 N	54+55.95	LT	N	O&C	10.0	95.0	45.0	609.0	8.5		67.7			17.4
FE	61+26.87	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	61+34.71	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	62+00.00	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	67+90.98	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	67+95.66	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	72+44.69	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	72+50.96	RT	N	AGG	10.0	36.0	16.0	260.0				1.0		
PE	73+02.00	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	73+06.29	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	74+00.00	RT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	74+66.84	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	76+06.15	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	77+66.69	RT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
PE	79+31.83	RT	N	HMA	10.0	36.0	16.0	260.0	3.6		28.9			
PE	80+79.66	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	81+06.49	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	81+18.64	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	88+59.98	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	88+76.15	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	94+55.86	RT	N	HMA	10.0	38.0	18.0	280.0	3.9		31.1			
PE	95+72.38	RT	N	AGG	10.0	34.0	14.0	240.0	1.8	0.3		0.9		
PE	96+71.02	RT	N	AGG	10.0	38.0	18.0	280.0	2.0	0.4		1.1		
PE	97+68.34	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	99+03.57	RT	N	CONC	10.0	38.0	18.0	280.0	3.9		31.1			
PE	99+95.25	RT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	100+51.96	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	101+95.24	RT	N	AGG	10.0	42.0	22.0	320.0	2.3	0.4		1.3		
FE	102+50.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	102+78.92	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	103+56.50	RT	N	HMA	10.0	34.0	14.0	240.0	3.4		26.7			
PE	104+25.94	RT	N	HMA	10.0	40.0	20.0	300.0	4.2		33.3			
PE	105+02.37	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	105+85.95	RT	N	O&C	10.0	38.0	18.0	280.0	3.9		31.1			
PE	107+39.67	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
E CO RD 500 N	107+45.00	LT	N	O&C	10.0	60.0	24.0	352.0	4.9		39.1			10.7
PE	107+85.19	RT	N	AGG	10.0	35.0	15.0	250.0	1.9	0.4		0.9		
PE	109+91.26	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	111+26.54	RT	N	O&C	10.0	32.0	12.0	220.0	3.1		24.4			
PE	112+95.47	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		

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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = switt	DESIGNED - HEK	REVISED - _____
PLOT SCALE = 0.167" / in.	DRAWN - HEK	REVISED - _____
PLOT DATE = 2/6/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 3 OF 10 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	13
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

SIDE ROAD & ENTRANCE SCHEDULE

DESCRIPTION	STATION	L/R	RAMP (Y/N)	MATERIAL	LENGTH "L"	WIDTH @ EOP	WIDTH @ "L"	AREA	INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050	EXCAVATING AND GRADING EXISTING SHOULDER 20200600	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) X0326440	AGGREGATE SURFACE COURSE, TYPE B 40200800	TEMPORARY RAMP 40600990	TEMPORARY RAMP(SPECIAL) X4060995
					FEET	FEET	FEET	SQ FT	TON	UNIT	SQ YD	TON	SQ YD	SQ YD
PE	113+72.59	RT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	115+37.86	RT	N	AGG	10.0	48.0	28.0	380.0	2.6	0.5		1.5		
PE	117+74.62	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	119+07.71	RT	N	CONC	10.0	32.0	12.0	220.0	3.1		24.4			
PE	119+72.46	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	123+30.63	RT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
STA.124+73.69 BK = STA. 10+00.00 AH														
OLD STATE RD	10+00.00	LT	Y	HMA									185.6	
PE	13+16.80	RT	N	AGG	10.0	34.0	14.0	240.0	1.8	0.3		0.9		
PE	14+18.97	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	16+40.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
BRIAN DR	16+47.53	RT	N	CONC	10.0	104.0	24.0	644.0	9.0		71.6			
JOAN MARIE DR	20+89.04	RT	N	CONC	10.0	104.0	24.0	675.0	9.5		75.0			
PE	25+23.65	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	25+83.52	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	26+74.10	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
CO RD 280 E	28+10.23	LT	N	O&C	10.0	91.0	43.7	512.0	7.2		56.9			17.2
PE	31+84.38	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	33+28.38	RT	N	AGG	10.0	38.0	18.0	280.0	2.0	0.4		1.1		
PE	33+73.41	RT	N	HMA	10.0	36.0	16.0	260.0	3.6		28.9			
PE	34+90.21	LT	N	CONC	10.0	32.0	12.0	220.0	3.1		24.4			
PE	37+27.44	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	39+37.36	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	40+16.75	RT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	41+63.35	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	44+95.21	LT	N	CONC	10.0	65.0	22.0	450.0	6.3		50.0			
CO RD 400 N	49+09.21	LT	N	O&C	10.0	106.0	49.5	760.0	10.6		84.4			19.7
CO RD 400 N	49+09.21	RT	N	O&C	10.0	83.0	39.0	477.0	6.7		53.0			14.9
CEMETERY	FROM 49+25.00 TO 55+95.00	RT	N	HMA										
PE	50+54.81	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	51+00.00	RT	N	AGG	3.0	32.0	12.0	220.0				0.8		
PE	52+70.25	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
E LAKE PARADISE RD	56+02.00	RT	N	HMA	10.0	62.5	39.0	475.0	6.7		52.8			12.5
PE	56+29.39	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	61+77.67	LT	N	AGG	10.0	37.0	17.0	270.0	2.0	0.4		1.1		
PE	62+56.50	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	68+80.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	69+57.91	LT	N	AGG	10.0	34.0	14.0	240.0	1.8	0.3				
PE	70+71.49	LT	N	HMA	10.0	34.0	14.0	240.0	3.4		26.7			
PE	71+65.93	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	72+54.14	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
E CO RD 340 N	72+89.76	LT	N	O&C	10.0	42.5	18.0	247.0	3.5		27.4			7.4
PE	74+16.32	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	74+73.26	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	75+61.88	LT	N	AGG	10.0	40.0	20.0	300.0	2.2	0.4		1.2		
PE	75+94.44	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	76+94.94	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	77+78.96	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	78+18.87	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	78+96.31	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	79+93.30	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	81+13.64	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	82+74.10	LT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
E CO RD 330 N	82+77.88	RT	N	O&C	10.0	102.0	57.0	708.0	9.9		78.7			19.3
CE	86+68.79	RT	N	HMA	10.0	102.0	57.0	708.0		INCLUDED MAINLINE				34.4
PE	87+55.84	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			

MODEL: D:\p4\h... FILE NAME: I:\DOT\8636 D7\p4\Van\8636\03\_W02 - Lake Paradise Road Resurfacing\CADD\CADD\_Civil\071908s-sht-schedule.dgn



USER NAME = switt	DESIGNED - HEK	REVISED - _____
	DRAWN - HEK	REVISED - _____
PLOT SCALE = 0.167" / in.	CHECKED - CMF	REVISED - _____
PLOT DATE = 2/6/2024	DATE - 10-05-2023	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: \_\_\_\_\_ SHEET 4 OF 10 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	14
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

SIDE ROAD & ENTRANCE SCHEDULE

DESCRIPTION	STATION	L/R	RAMP (Y/N)	MATERIAL	LENGTH "L"	WIDTH @ EOP	WIDTH @ "L"	AREA	INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050	EXCAVATING AND GRADING EXISTING SHOULDER 20200600	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) X0326440	AGGREGATE SURFACE COURSE, TYPE B 40200800	TEMPORARY RAMP 40600990	TEMPORARY RAMP(SPECIAL) X4060995
					FEET	FEET	FEET	SQ FT	TON	UNIT	SQ YD	TON	SQ YD	SQ YD
PE	89+92.06	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	94+10.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
E CO RD 320 N	94+70.07	RT	N	O&C	10.0	40.0	18.0	222.0	3.1		24.7			6.9
FE	95+95.00	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	102+12.10	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
WATER TREATMENT PLANT	103+92.01	RT	N	HMA	10.0	75.0	38.0	494.0	6.9		54.9			
WATER TREATMENT PLANT	106+97.01	RT	N	HMA	10.0	94.0	50.0	638.0	8.9		70.9			
PE	110+68.23	RT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
PE	111+84.20	RT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
STA.116+66.47 BK = STA. 33+73.30 AH														
FE	35+70.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	45+00.00	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
E CO RD 250 N	47+71.56	LT	N	O&C	13.0	259.8	140.5	2432.0	34.0		270.2			47.0
PE	52+17.73	RT	N	AGG	10.0	34.0	14.0	240.0	1.8	0.3		0.9		
PE	53+58.00	RT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
PE	53+84.33	LT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
*WHITLEY LN	56+63.97	RT	N	AGG	10.0	53.0	24.0	330.0	6.2	0.5				
CARROLLTON ESTATE	57+47.38	LT	N	HMA	10.0	93.0	49.0	615.0	8.6		68.3			
PE	59+58.90	LT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
PE	60+59.70	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	61+44.19	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	61+75.79	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	62+02.14	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	62+09.10	LT	N	AGG	10.0	35.0	15.0	250.0	1.9	0.4		0.9		
PE	62+57.15	RT	N	AGG	10.0	40.0	20.0	300.0	2.2	0.4		1.2		
PE	63+66.67	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	63+71.39	LT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
PE	63+85.00	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	65+17.00	RT	N	HMA	10.0	32.0	12.0	220.0	3.1		24.4			
PE	65+87.56	LT	N	AGG	10.0	38.0	18.0	280.0	2.0	0.4		1.1		
PE	66+66.56	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	66+80.85	RT	N	AGG										
PE	68+07.24	LT	N	AGG										
PE	68+63.77	RT	N	AGG										
PE	69+06.33	LT	N	AGG										
PE	69+12.32	RT	N	AGG										
PE	70+64.20	LT	N	AGG										
N CO RD 200 E	71+22.42	LT	N	O&C	10.0	48.0	18.0	246.3			INCLUDED MAINLINE		27.4	
PE	71+27.68	RT	N	AGG										
PE	72+57.26	RT	N	AGG										
PE	72+89.89	LT	N	CONC										
N CO RD 190 E	75+61.03	LT	Y	O&C	10.0	73.0	34.1	437.0			INCLUDED MAINLINE		48.6	
PE	75+79.72	RT	N	AGG										
PE	77+93.23	LT	N	AGG										
PE	78+00.47	RT	N	AGG										
E LAKE PARADISE RD	85+08.29	RT	N	O&C	10.0	57.0	29.0	389.0	5.4		43.2			
FE	87+85.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	88+61.57	RT	N	CONC										
PE	91+52.54	RT	N	AGG										
PE	94+26.29	LT	N	HMA										
E CO RD 250 N	96+00.06	RT	Y	HMA				394.0			INCLUDED MAINLINE		43.8	
N CO RD 150 E	96+00.06	RT	Y	O&C				545.0			INCLUDED MAINLINE		60.6	

\* FULL LENGTH 3" HMA APRON (INCIDENTAL SURFACING)

MODEL: D:\c\h\ CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = switt	DESIGNED - HEK	REVISED - _____
PLOT SCALE = 0.167" / in.	DRAWN - HEK	REVISED - _____
PLOT DATE = 2/6/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 5 OF 10 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	15
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

SIDE ROAD & ENTRANCE SCHEDULE														
DESCRIPTION	STATION	L/R	RAMP (Y/N)	MATERIAL	LENGTH "L"	WIDTH @ EOP	WIDTH @ "L"	AREA	INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050	EXCAVATING AND GRADING EXISTING SHOULDER 20200600	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) X0326440	AGGREGATE SURFACE COURSE, TYPE B 40200800	TEMPORARY RAMP 40600990	TEMPORARY RAMP(SPECIAL) X4060995
					FEET	FEET	FEET	SQ FT	TON	UNIT	SQ YD	TON	SQ YD	SQ YD
STA.96+00.006 BK = STA. 179+81.99 AH														
PE	179+15.30	RT	N	HMA										
PE	177+44.16	RT	N	AGG										
PE	174+90.38	RT	N	AGG										
FE	169+50.00	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	167+25.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
CE	166+42.54	RT	N	AGG	10.0	38.0	18.0	280.0	2.0	0.4		1.1		
PE	165+84.83	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
CE	165+15.23	RT	N	AGG	10.0	38.0	18.0	280.0	2.0	0.4		1.1		
PE	164+82.19	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	161+90.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
CE	161+19.70	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
CE	158+80.33	RT	N	HMA	10.0	67.0	46.0	565.0	7.9		62.8			
CE	156+96.84	RT	N	AGG	10.0	44.0	24.0	340.0	2.4	0.4		1.4		
FE	153+30.00	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	145+31.46	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	144+57.27	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	137+47.48	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	129+39.73	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
PE	127+11.82	LT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	126+88.00	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
CE	114+30.00	LT	N	AGG	10.0	40.0	20.0	300.0	2.2	0.4		1.2		
PE	112+18.21	LT	N	AGG	10.0	36.0	16.0	260.0	1.9	0.4		1.0		
STA.100+35.00 BK = STA. 10+00.00 AH														
CO RD 100 N	10+00.00	LT	N	HMA	20.0	147.3	55.2	1710.0	23.9		190.0			28.1
CO RD 100 N	10+00.00	RT	N	CONC	20.0	156.0	61.5	1842.0	25.8		205.0			30.3
FE	12+75.53	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	14+47.21	RT	N	AGG	10.0	32.0	12.0	220.0	1.7	0.3		0.8		
FE	23+25.00	RT	N	AGG										
FE	27+40.00	RT	N	AGG										
CO RD 150 E	28+10.00	LT	N	O&C	10.0	70.3	37.5	465.0					51.7	
FE	39+25.11	RT	N	AGG										
FE	39+25.11	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	48+60.83	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	48+60.83	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	53+51.16	LT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	53+58.76	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
FE	60+50.00	RT	N	AGG	10.0	44.0	24.0	340.0				1.4		
PE	67+82.97	RT	N	AGG	10.0	44.0	24.0	340.0	2.4	0.4		0.7		
FE	69+54.75	LT	N	AGG										
						Total	3669	64535	522	28	2399	134	418	283

PROTECTING OR RESETTING SURVEY MARKERS				
DESCRIPTION	STATION	LT/RT	OFFSET	PROTECTING OR RESETTING SURVEY MARKERS, Z0049799
			FOOT	EACH
BRASS SURVEY MARKER	17+46.71			1
PERMANENT SURVEY MARKER	54+68.48	RT	3.23	1
TBD				1
			TOTAL	3

MODEL: Default  
 FILE NAME: I:\DOT\8636 D7\or-Via\8636.D02 - VO 2 - Lake Paradise Road Resurfacing\CADD\CADD\_Civil\DOT74986-ht-schedule.dgn



USER NAME = switt	DESIGNED - HEK	REVISED - _____
	DRAWN - HEK	REVISED - _____
PLOT SCALE = 0.167" / in.	CHECKED - CMF	REVISED - _____
PLOT DATE = 2/6/2024	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>	
<b>FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE</b>	
SCALE: _____	SHEET 6 OF 10 SHEETS STA. _____ TO STA. _____

F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 16
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



GUARDRAIL SCHEDULE														
LOCATION			L/R	STEEL RAILING, TYPE CO-10 50900207	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 63000001	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN 63000360	STRONG POST GUARDRAIL ATTACHED TO CULVERT 63000030	WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE III 63000052	TRAFFIC BARRIER TERMINAL, TYPE 14 63100119	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 63100167	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED) X6310187	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) X6330725	GUARDRAIL REFLECTORS, TYPE B 78200006	TERMINAL MARKER - DIRECT APPLIED 72501000
STATION	TO	STATION		FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH
	TO	119+96.50	LT							1				1
119+96.50	TO	120+21.50	LT		25								1	
120+21.50	TO	120+65.25	LT			43.75								
120+65.25	TO	121+65.25	LT		100								2	
121+65.25	TO		LT							1			1	1
	TO	120+07.00	RT									43.75	1	
120+07.00	TO	120+44.50	RT		37.5									
120+44.50	TO	120+88.25	RT			43.75							1	
120+88.25	TO	121+13.25	RT		25								1	
121+13.25	TO		RT							1			1	1
STA.124+73.69 BK = STA. 10+00.00 AH														
	TO	45+73.63	LT							1				1
45+73.63	TO	47+48.63	LT		175								2	
47+48.63	TO	47+92.38	LT			43.75							1	
47+92.38	TO	48+42.38	LT		50								1	
48+42.38	TO		LT									75	1	
	TO	45+86.13	RT							1				1
45+86.13	TO	47+48.63	RT		162.5								2	
47+48.63	TO	47+92.38	RT			43.75							1	
47+92.38	TO	48+17.38	RT		25									
48+17.38	TO		RT							1			1	1
	TO	49+89.00	RT							1				1
49+89.00	TO	50+39.00	RT		50								1	
50+39.00	TO		RT							1			1	1
	TO	51+61.00	RT							1				1
51+61.00	TO	54+36.00	RT		275								4	
54+36.00	TO		RT							1			1	1
	TO	55+42.00	RT							1				1
55+42.00	TO		RT							1			1	1
	TO	69+99.91	LT									43.75	1	
69+99.91	TO	70+24.91	LT		25								1	
70+24.91	TO	70+46.79	LT				21.87						1	
70+46.79	TO		LT									31.25	1	
	TO	68+74.91	RT							1				1
68+74.91	TO	70+24.91	RT		150								2	
70+24.91	TO	70+46.79	RT				21.87							
70+46.79	TO	70+84.29	RT		37.5								1	
70+84.29	TO		RT							1			1	1
STA.116+66.47 BK = STA. 33+73.30 AH														
	TO	55+22.77	LT							1				1
55+22.77	TO	55+72.77	LT		50			21.87					1	
55+72.77	TO	55+94.64	LT										1	
55+94.64	TO	56+44.64	LT		50								1	
56+44.64	TO		LT							1			1	1
	TO	55+09.48	RT							1				1
55+09.48	TO	55+59.48	RT		50								1	
55+59.48	TO	55+81.35	RT				21.87						1	
55+81.35	TO	56+31.35	RT		50								1	
56+31.35	TO		RT									37.5	1	
	TO	84+10.60	LT							1			1	1
84+10.60	TO	84+98.10	LT		87.5								1	
84+98.10	TO	85+35.00	LT								1		1	
86+61.50	TO	86+98.40	LT								1		1	
86+98.40	TO	87+23.40	LT		25									
87+23.40	TO		LT							1			1	1
86+61.50	TO	86+98.40	RT								1		1	
86+98.40	TO	87+85.90	RT		87.5								2	
87+85.90	TO		RT							1			1	1

MODEL: D:\default...  
 FILE NAME: I:\DOT\8636.D7\Map\_Van\8636.02\_V02 - Lake Paradise Road Resurfacing\Submittal\20240206\_PSE to D7\CONUSheets\074986-ent-schedule.dgn

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

USER NAME = switt	DESIGNED - HEK	REVISED - _____
	DRAWN - HEK	REVISED - _____
PLOT SCALE = 0.167" / in.	CHECKED - CMF	REVISED - _____
PLOT DATE = 2/6/2024	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 7 OF 10 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	17
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE														
LOCATION			L/R	STEEL RAILING, TYPE CO-10 50900207	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 63000001	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN 63000360	STRONG POST GUARDRAIL ATTACHED TO CULVERT 63000030	WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE III 63000052	TRAFFIC BARRIER TERMINAL, TYPE 14 63100119	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 63100167	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED) X6310187	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) X6330725	GUARDRAIL REFLECTORS, TYPE B 78200006	TERMINAL MARKER - DIRECT APPLIED 72501000
STATION	TO	STATION		FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH
STA.96+00.006 BK = STA. 179+81.99 AH														
	TO	134+77.83	RT							1				1
134+77.83	TO	134+15.33	RT		62.5								1	
134+15.33	TO	133+77.50	RT						1				1	
133+77.50	TO	132+52.52	RT	125									2	
132+52.52	TO	132+14.69	RT						1					
132+14.69	TO	130+14.69	RT		200								2	
130+14.69	TO		RT							1			1	1
	TO	135+01.63	LT							1			1	1
135+01.63	TO	134+01.63	LT		100									
134+01.63	TO	133+63.80	LT						1				1	
133+63.80	TO	132+38.82	LT	125									2	
132+38.82	TO	132+00.99	LT						1					
132+00.99	TO	130+50.99	LT		150								2	
130+50.99			LT							1			1	1
PROJECT TOTAL				250	2050	175	44	44	4	24	3	232	64	24

RAISED REFLECTIVE MARKER SCHEDULE					
STATION	TO	STATION	LENGTH	RAISED REFLECTIVE PAVEMENT MARKER 78100100	
				SINGLE REFLECTORS	DOUBLE REFLECTORS
				FOOT	EACH
10+31.50	TO	14+70.00	438.5		27
14+70.00	TO	124+73.69	11003.69	127	22
STA.124+73.69 BK = STA. 10+00.00 AH					
10+00.00	TO	23+83.98	1383.98	18	
23+83.98	TO	33+89.93	1005.95		26
33+89.93	TO	39+59.75	569.82		14
39+59.75	TO	49+26.76	967.01		50
49+26.76	TO	56+00.00	673.24		20
56+00.00	TO	116+66.47	6066.47	76	
STA.116+66.47 BK = STA. 33+73.30 AH					
33+73.30	TO	36+00.00	226.7	4	
36+00.00	TO	44+00.00	800		22
44+00.00	TO	54+00.52	1000.52		26
54+00.52	TO	96+00.06	41+99.54	54	
STA.96+00.006 BK = STA. 179+81.99 AH					
100+35.00	TO	179+81.99	79+46.99	100	
STA.100+35.00 BK = STA. 10+00.00 AH					
10+00.00	TO	22+60.32	1260.32	16	
22+60.32	TO	38+54.74	1594.42		42
38+54.74	TO	54+56.01	1601.27	21	
54+56.01	TO	69+72.11	1516.1		38
69+72.11	TO	74+05.00	432.89	6	
Total				422	287

GUARDRAIL REMOVAL SCHEDULE					
LOCATION			L/R	GUARDRAIL REMOVAL 63200310	
STATION	TO	STATION		FOOT	
119+55.65	TO	122+15.65	LT	260	
119+79.61	TO	121+69.61	RT	190	
STA.124+73.69 BK = STA. 10+00.00 AH					
45+15.51	TO	48+90.67	LT	375	
45+34.52	TO	48+54.52	RT	320	
49+43.10	TO	50+91.50	RT	148	
51+14.20	TO	55+02.00	RT	388	
55+05.00	TO	55+82.40	RT	77	
69+67.23	TO	70+73.63	LT	106	
71+33.30	TO	74+42.10	RT	309	
STA.116+66.47 BK = STA. 33+73.30 AH					
55+20.35	TO	56+33.85	LT	114	
55+20.85	TO	56+33.65	RT	113	
83+61.15	TO	85+35.00	LT	174	
86+61.50	TO	87+71.50	LT	110	
86+61.50	TO	88+33.69	RT	172	
STA.96+00.006 BK = STA. 179+81.99 AH					
129+59.48	TO	132+52.52	RT	293	
133+77.50	TO	135+34.19	RT	157	
129+95.98	TO	132+35.82	LT	240	
133+63.80	TO	135+43.80	LT	180	
PROJECT TOTAL				3726	

ISLAND REMOVAL			
STATION	TO	STATION	ISLAND REMOVAL X4402805
			SQ FT
10+28.04	TO	10+59.35	363
TOTAL			363

CONCRETE MEDIAN, TYPE SB (DOWELLED)			
STATION	TO	STATION	CONCRETE MEDIAN, TYPE SB (DOWELLED) X6061800
			SQ FT
10+32.14	TO	10+50.46	114
TOTAL			114

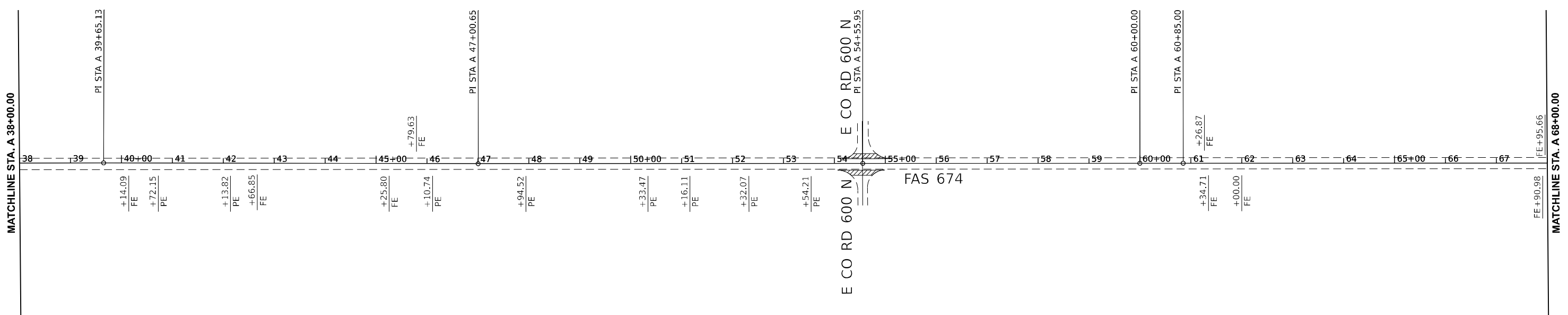
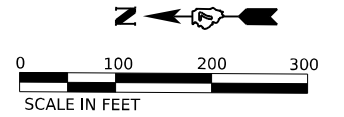
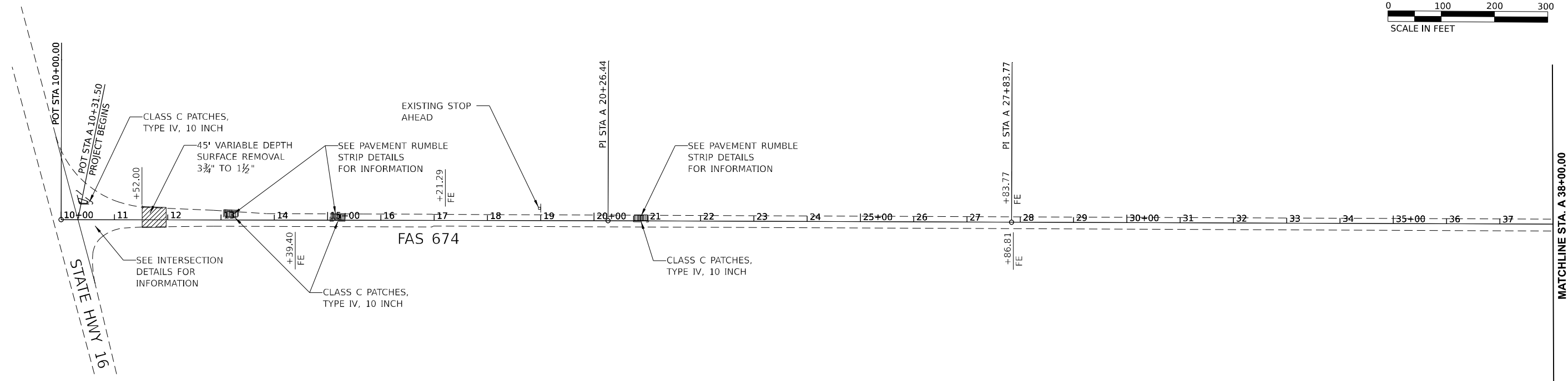
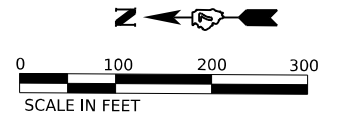
PORTLAND CEMENT CONCRETE BASE COURSE 10"			
STATION	TO	STATION	PORTLAND CEMENT CONCRETE BASE COURSE 10" 35300500
			SQ YD
10+31.14	TO	10+51.46	18
TOTAL			18

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HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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DATE - 10-05-2023

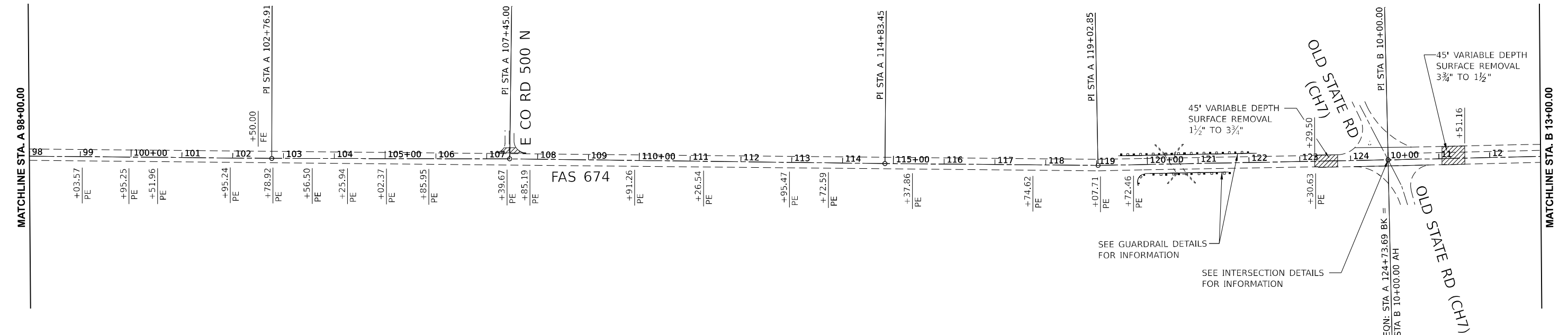
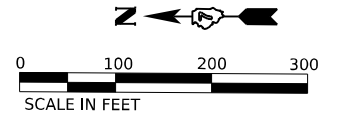
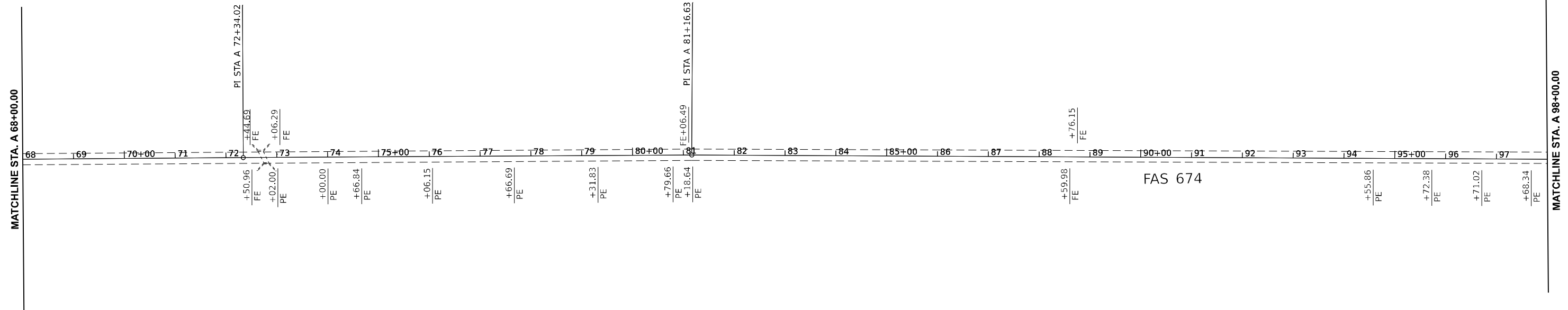
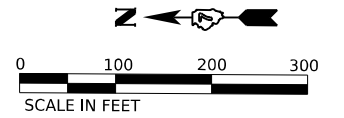
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REVISED - \_\_\_\_\_

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**  
SCALE: \_\_\_\_\_ SHEET 1 OF 8 SHEETS STA. A 10+00.00 TO STA. A 68+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	21
CONTRACT NO. 74986			ILLINOIS FED. AID PROJECT	

HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

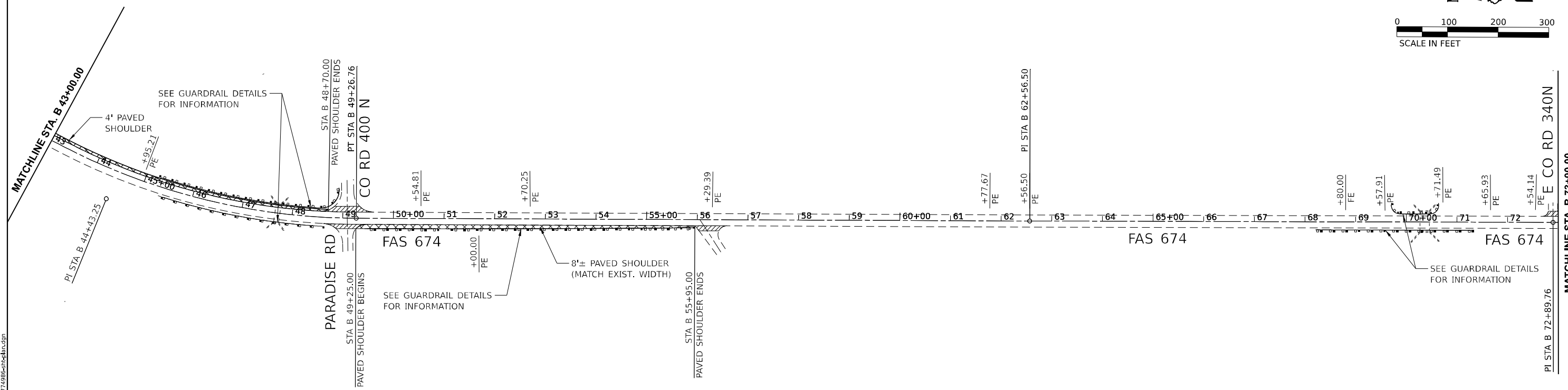
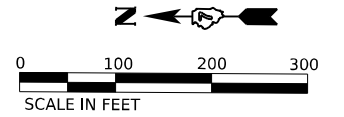
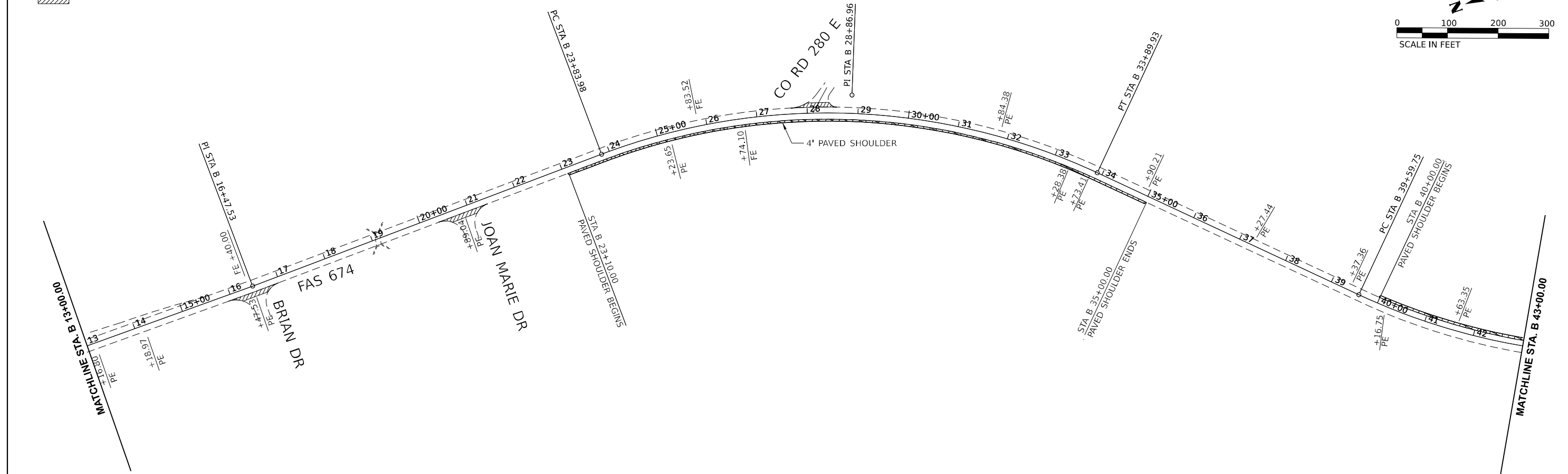
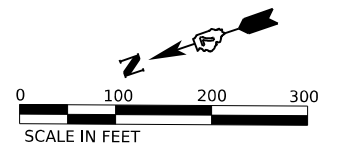
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	DATE - 10-05-2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**  
SCALE: \_\_\_\_\_ SHEET 2 OF 8 SHEETS STA. A 68+00.00 TO STA. B 13+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	22
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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 DATE - 10-05-2023

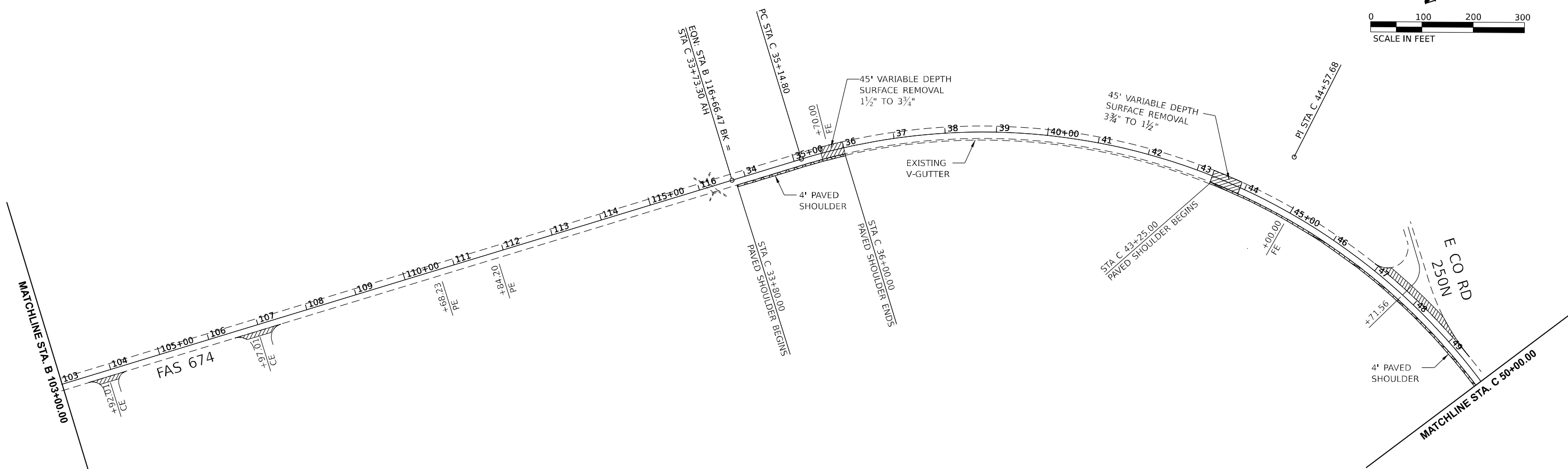
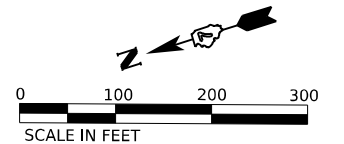
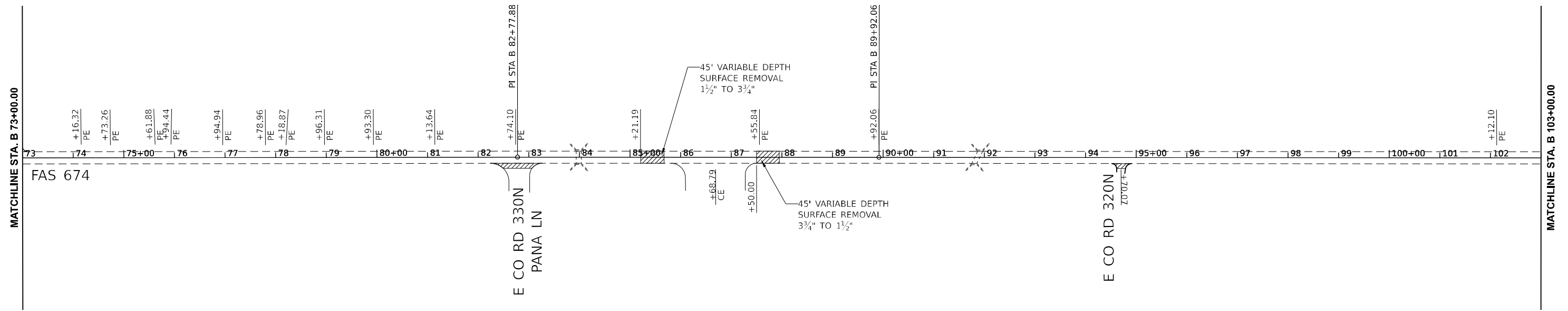
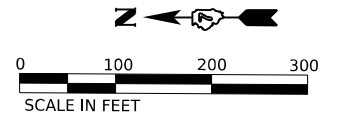
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**  
 SCALE: \_\_\_\_\_ SHEET 3 OF 8 SHEETS STA. B 13+00.00 TO STA. B 73+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	23
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

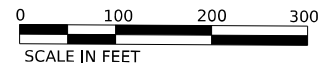
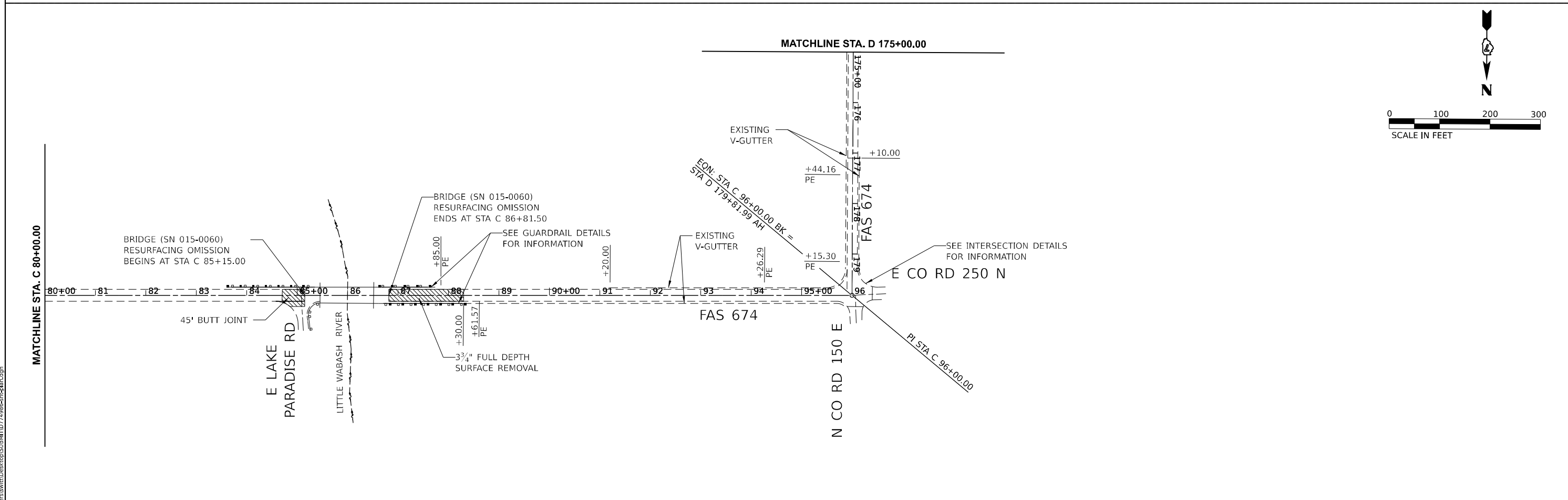
**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 4 OF 8 SHEETS STA. B 73+00.00 TO STA. C 50+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	24
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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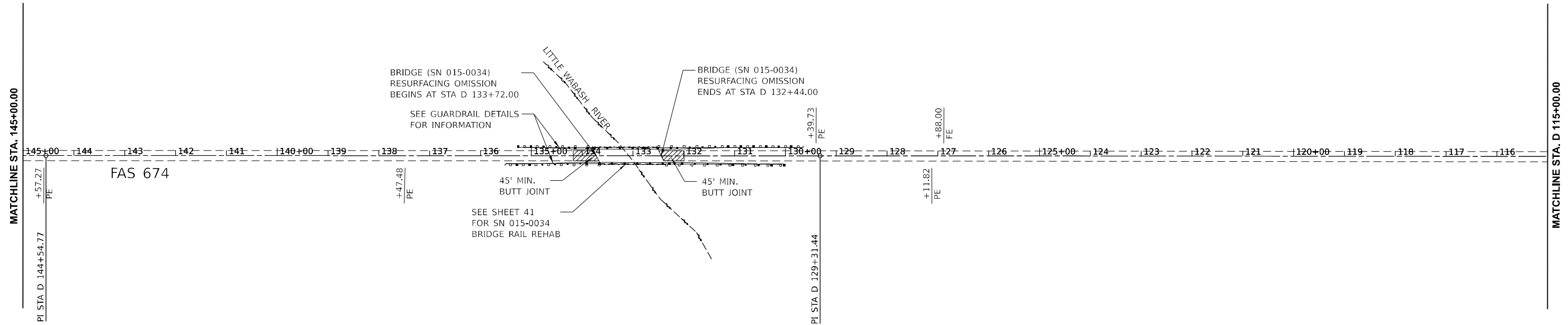
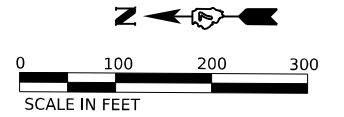
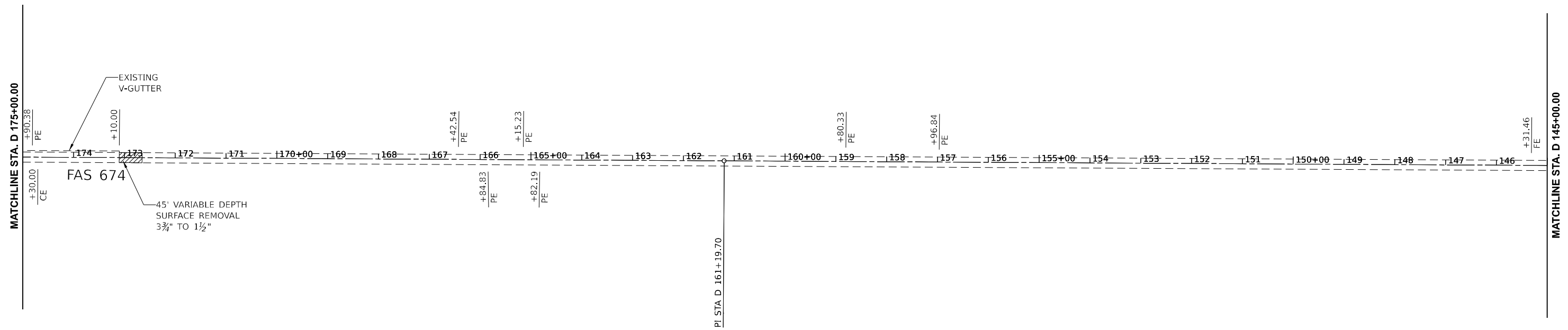
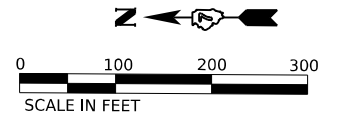
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**  
 SCALE: \_\_\_\_\_ SHEET 5 OF 8 SHEETS STA. C 50+00.00 TO STA. D 175+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	25
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

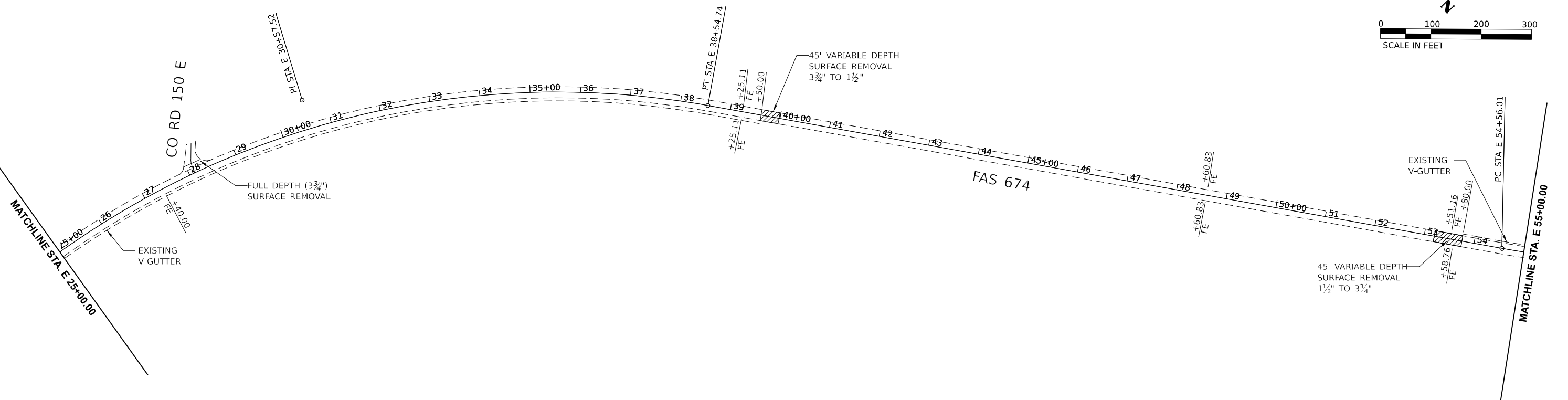
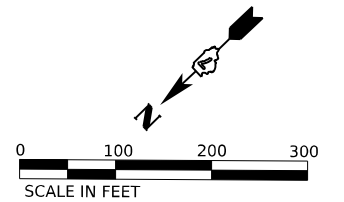
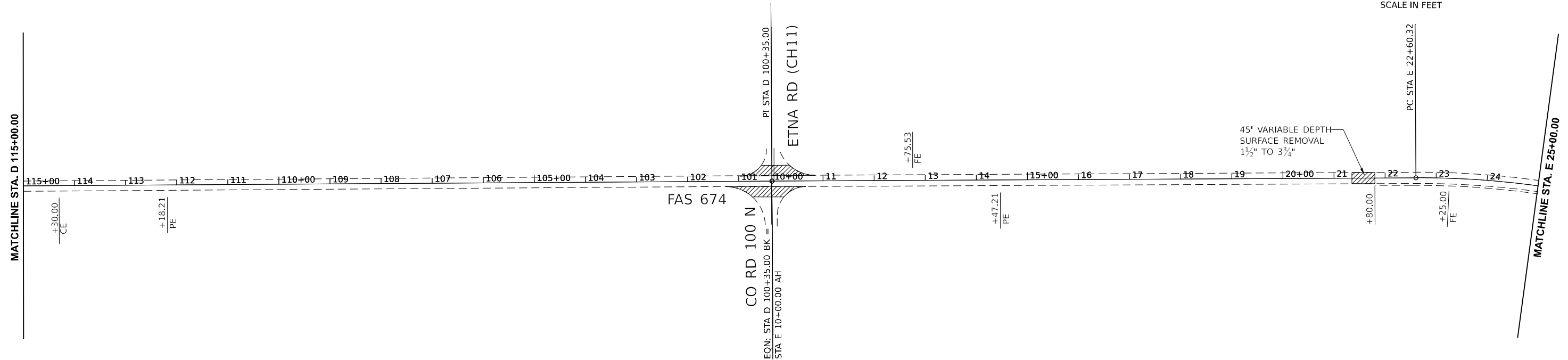
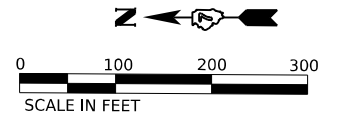
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RESURFACING PLAN</b>			
<b>FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE</b>			
SCALE: _____	SHEET 6	OF 8 SHEETS	STA. D 175+00.00 TO STA. D 115+00.00

F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 26
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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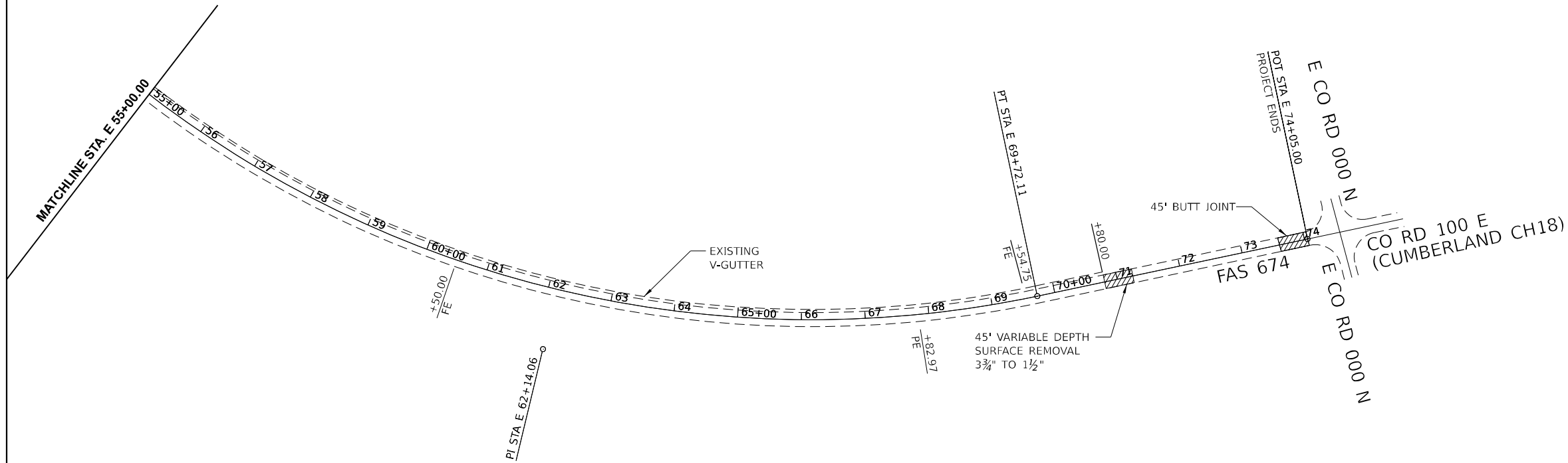
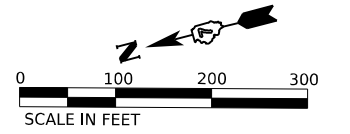
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**  
 SCALE: \_\_\_\_\_ SHEET 7 OF 8 SHEETS STA. D 115+00.00 TO STA. E 55+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	27
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

HMA RUNDOWN



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

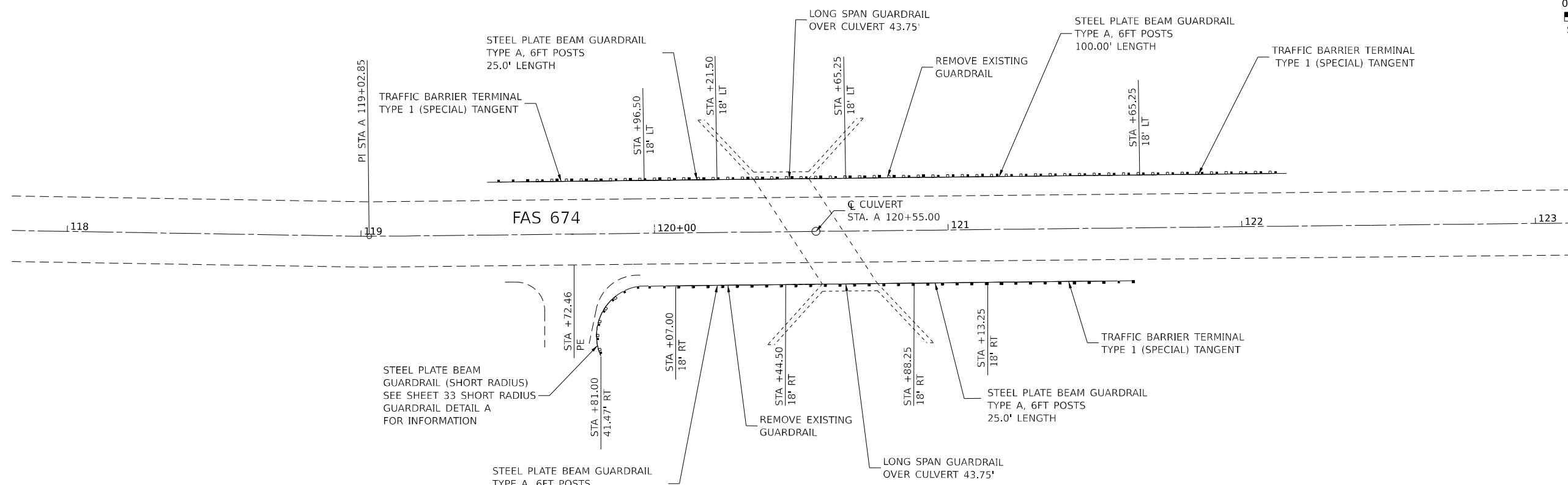
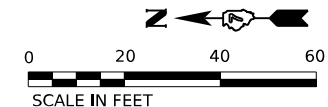
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

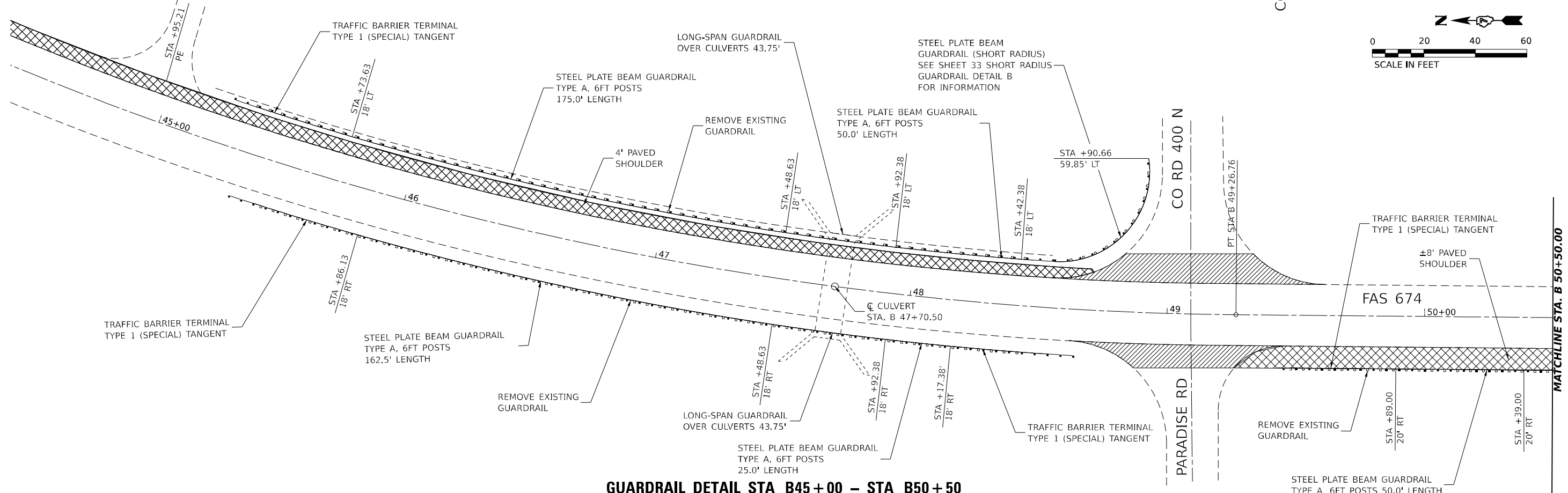
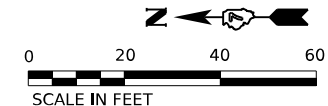
**RESURFACING PLAN**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 8 OF 8 SHEETS STA. E 55+00.00 TO STA. E 74+05.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	28
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



**GUARDRAIL DETAIL STA A119+00 - STA A123+00**



**GUARDRAIL DETAIL STA B45+00 - STA B50+50**

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**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

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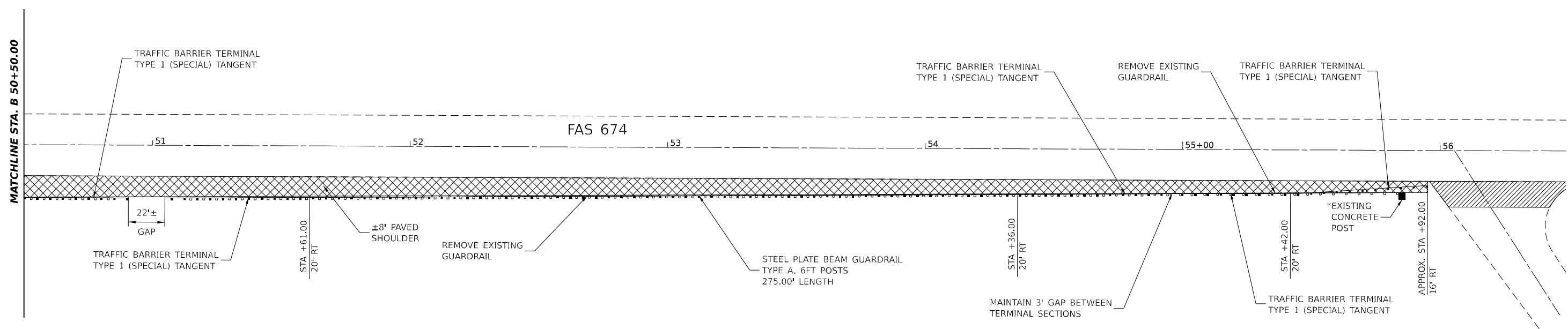
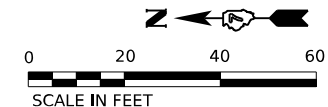
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REVISED - \_\_\_\_\_  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

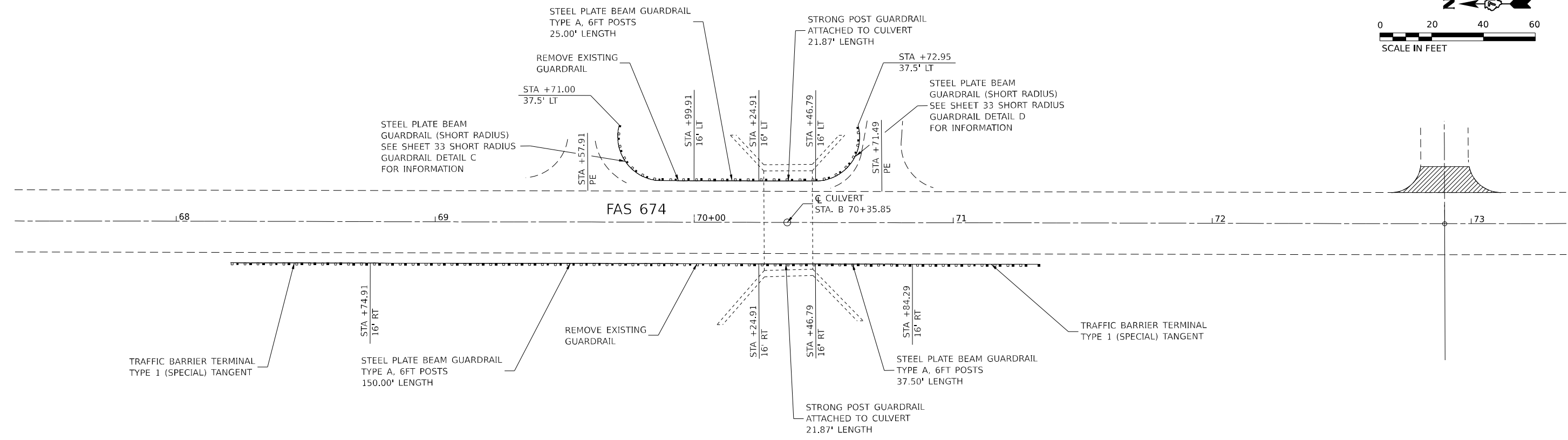
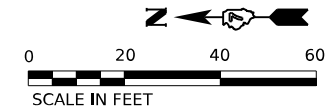
**GUARDRAIL DETAILS**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**  
 SCALE: \_\_\_\_\_ SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	29
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



**GUARDRAIL DETAIL STA B50+50 – STA B56+00**

\*TAPER TERMINAL TO FRONT SIDE OF EXISTING POST. MAINTAIN CLEARANCE TO BACK SIDE OF GUARDRAIL FOR DEFLECTION.



**GUARDRAIL DETAIL STA B68+00 – STA B72+00**

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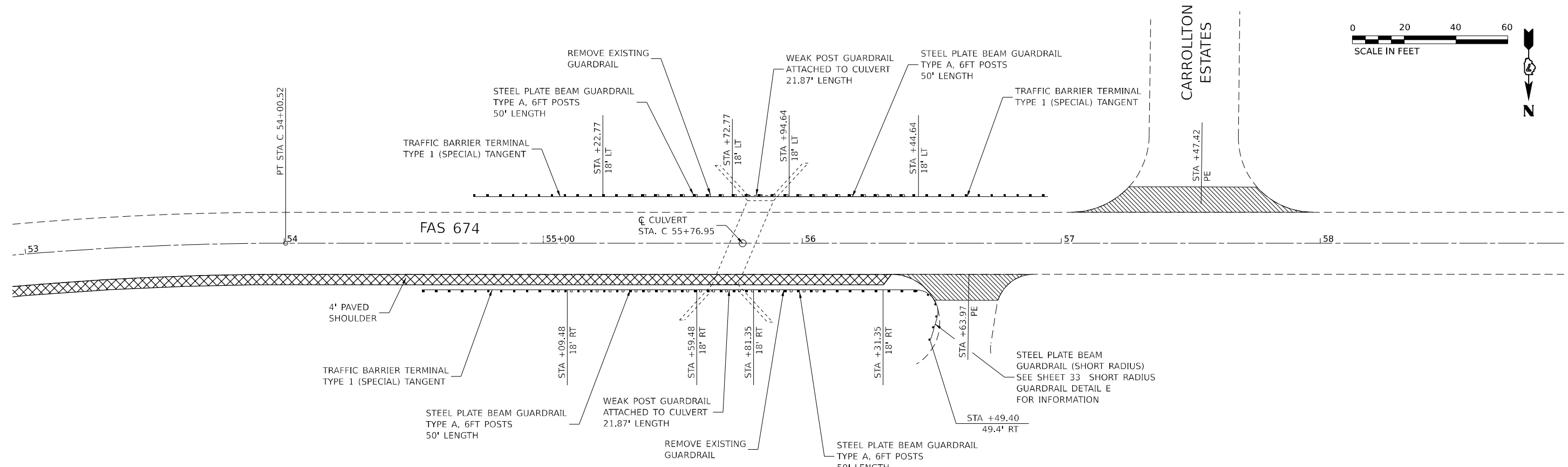


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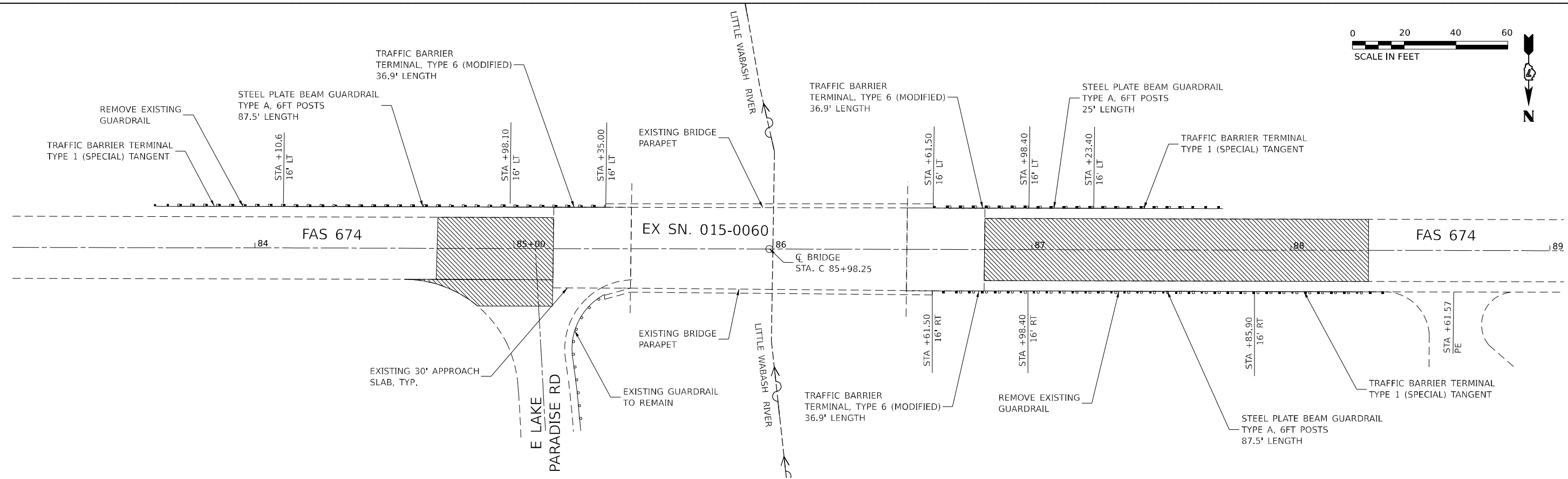
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GUARDRAIL DETAILS</b>	
<b>FAS 674 – IL 16 TO CUMBERLAND COUNTY LINE</b>	
SCALE: _____	SHEET 2 OF 5 SHEETS STA. _____ TO STA. _____

F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 30
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



**GUARDRAIL DETAIL STA C54+00 - STA C57+00**



**GUARDRAIL DETAIL STA C83+00 - STA C89+00**

MODEL: LAKE RD - Guardrail 3  
 FILE NAME: C:\Users\swirt\OneDrive\Documents\Guardrail\_Detail.dgn

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

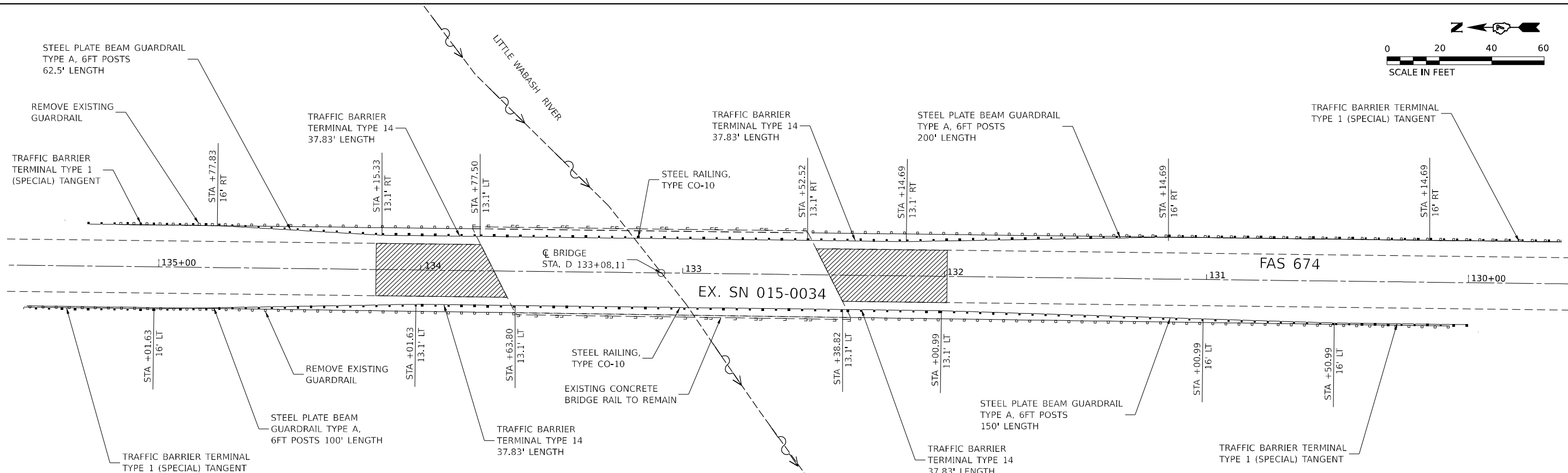
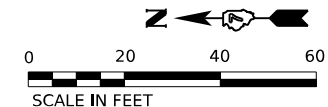
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PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED -
	DATE - 10-05-2023	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAILS**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	31
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



**GUARDRAIL DETAIL STA D129+00 – STA D136+00**

MODEL: I:\AVE RD - Guardrail.dwg  
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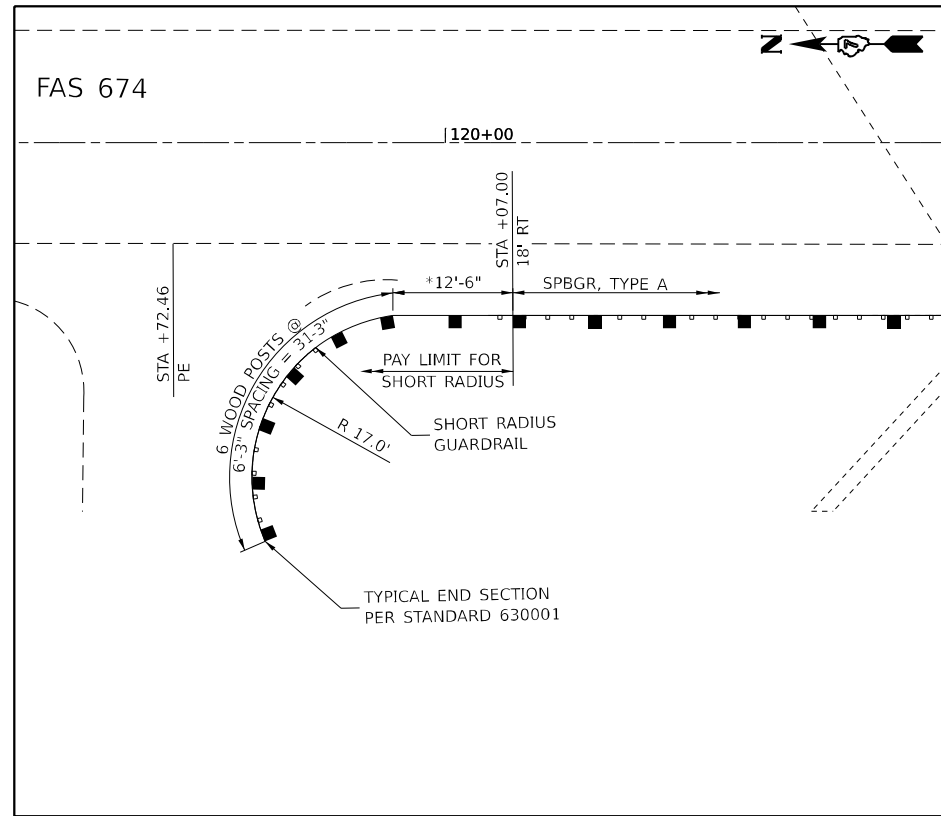
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PLOT DATE = 2/5/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

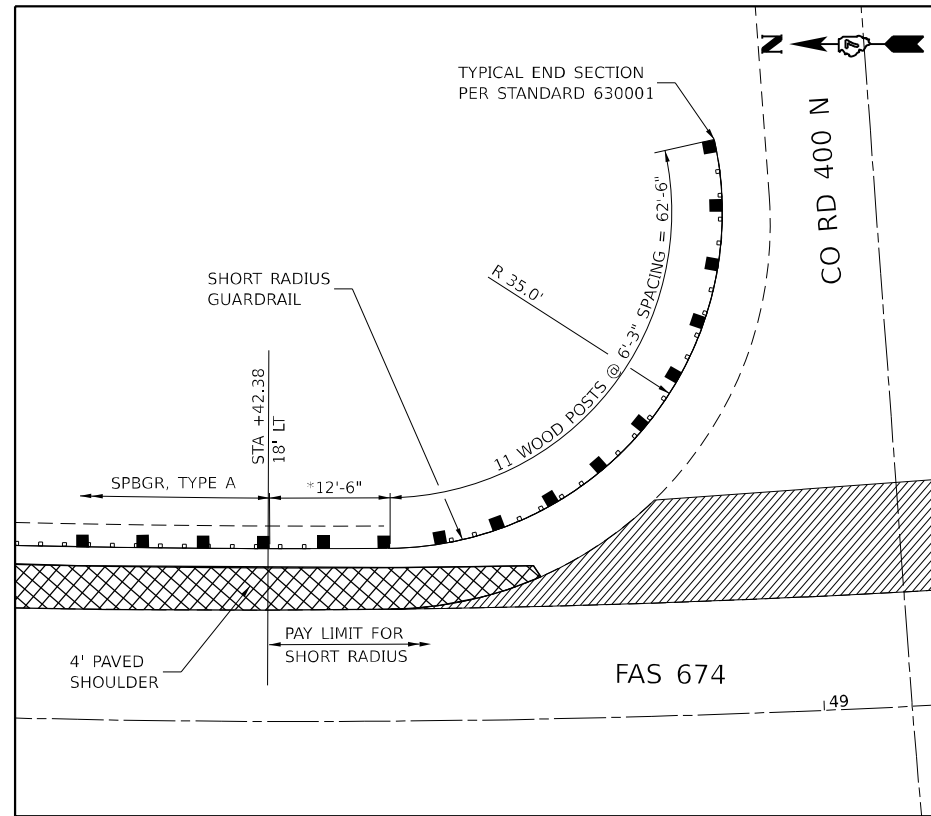
<b>GUARDRAIL DETAILS</b> <b>FAS 674 – IL 16 TO CUMBERLAND COUNTY LINE</b>	
SCALE: _____	SHEET 4 OF 5 SHEETS STA. _____ TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	32
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

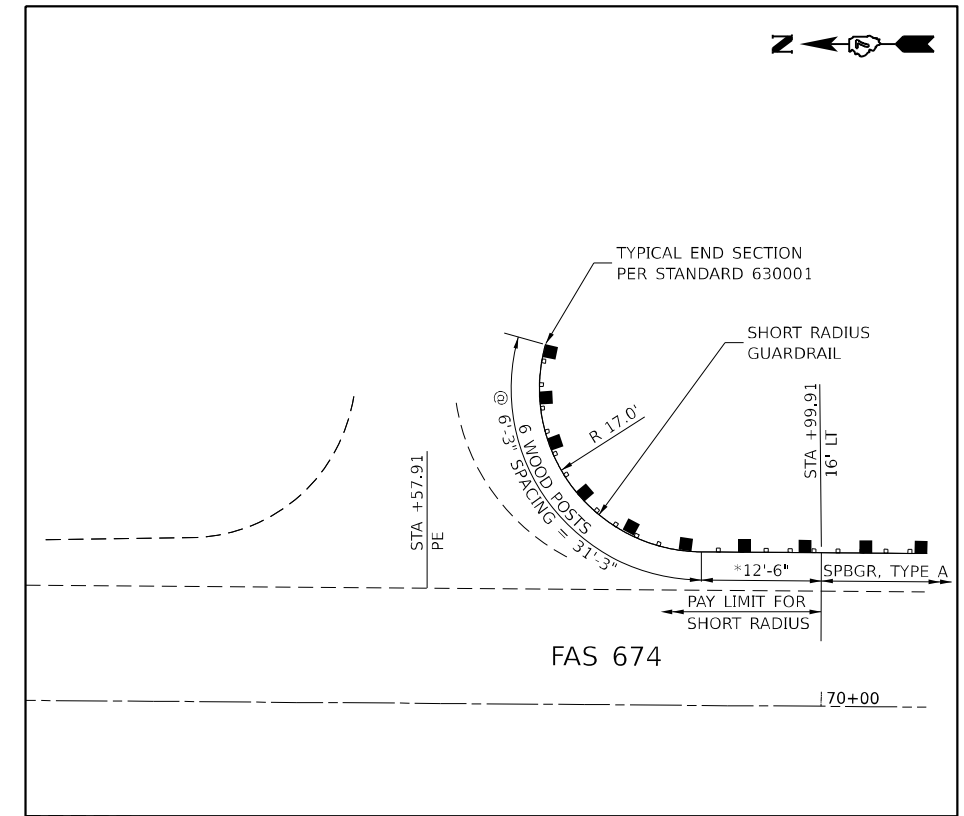




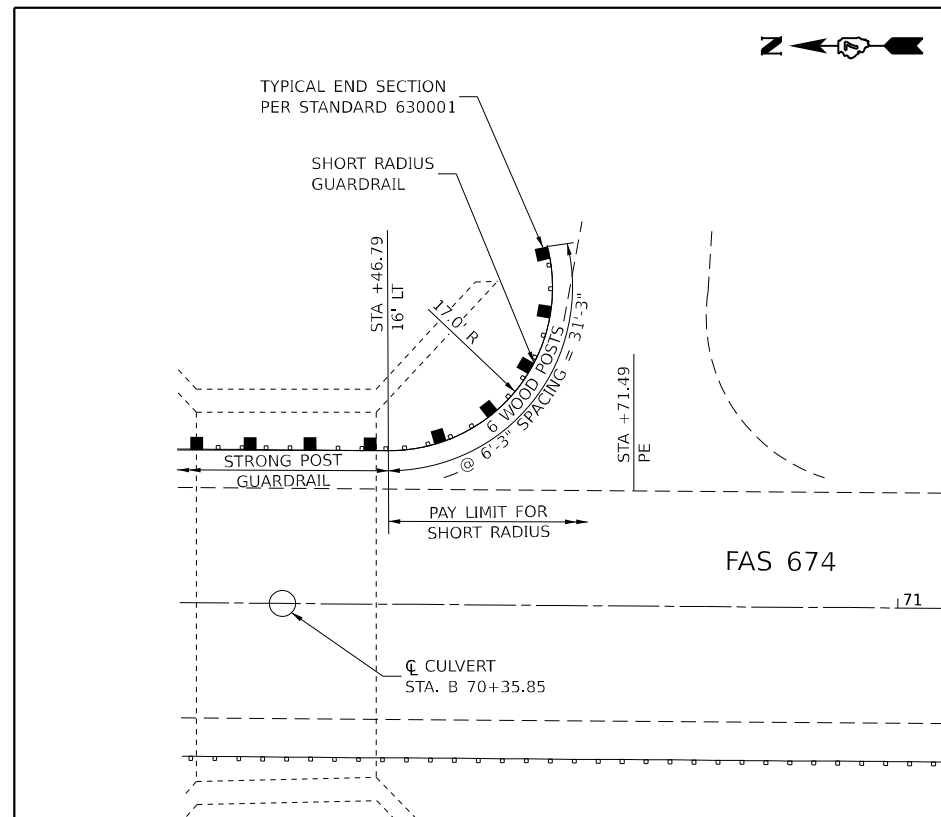
**SHORT RADIUS GUARDRAIL DETAIL A**



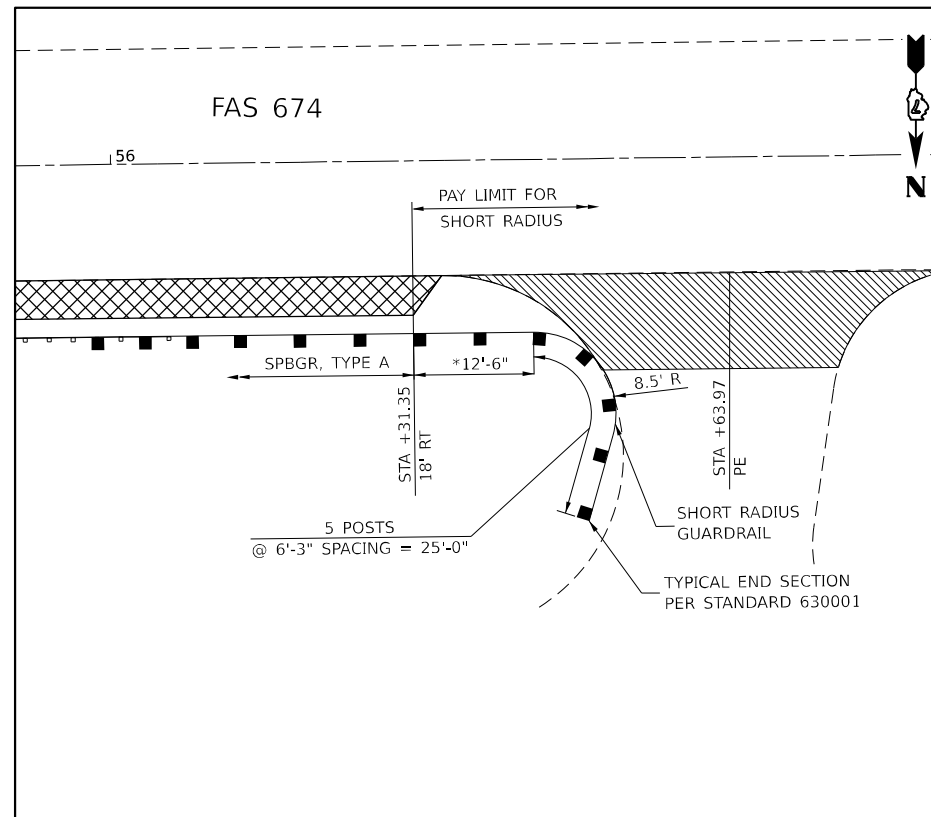
**SHORT RADIUS GUARDRAIL DETAIL B**



**SHORT RADIUS GUARDRAIL DETAIL C**



**SHORT RADIUS GUARDRAIL DETAIL D**



**SHORT RADIUS GUARDRAIL DETAIL E**

\*CONSTRUCT 12'-6" SEGMENT ACCORDING TO STANDARD 631011. OMIT END SECTION AND SPLICE INTO RADIUS GUARDRAIL.

MODEL: I:\ME: RD - Guardrail 5  
FILE NAME: C:\Users\swirt\OneDrive\Documents\Guardrail\_Detail.dgn

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = swirt	DESIGNED - HEK	REVISED -
PLOT SCALE = 0.16666633 1/ in.	DRAWN - HEK	REVISED -
PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED -
	DATE - 10-05-2023	REVISED -

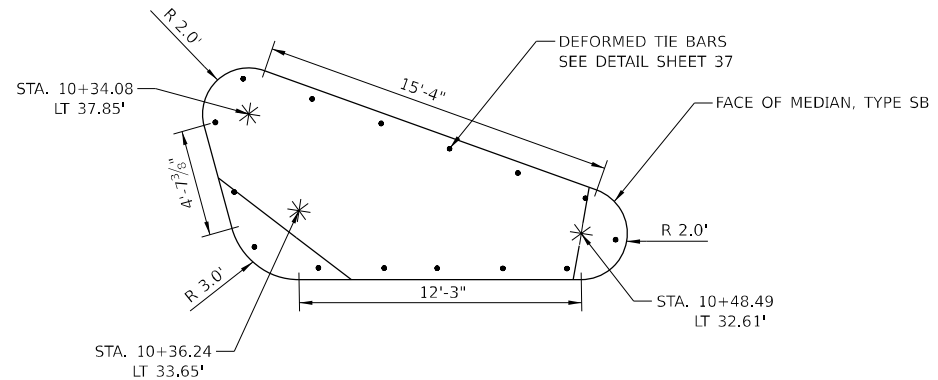
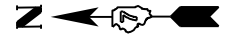
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAILS**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 5 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

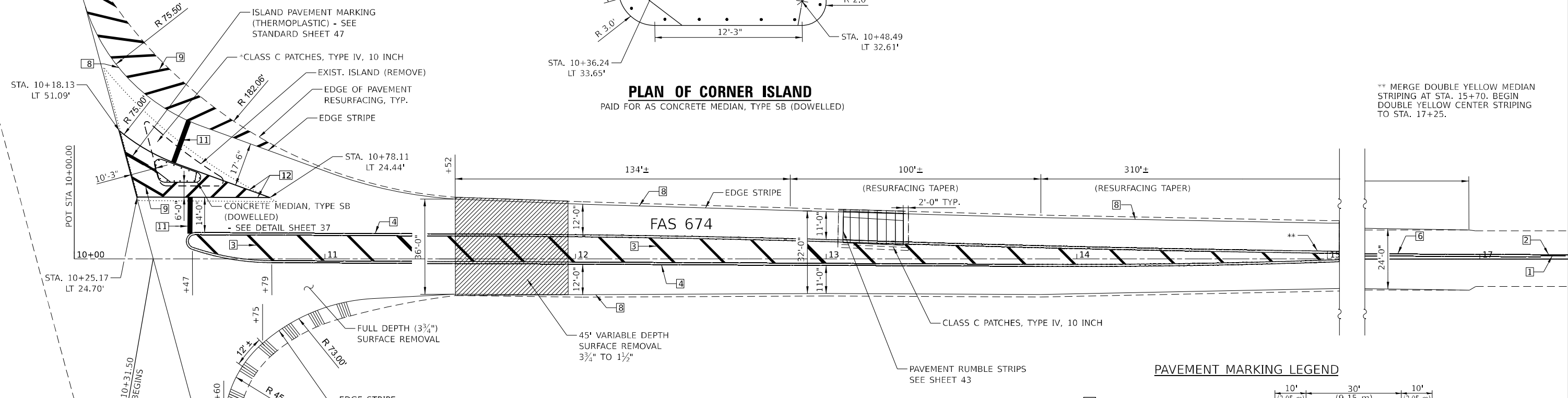
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	33
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

\*CLASS C PATCHES AT ISLAND REMOVAL LOCATION TO BE RESURFACED OVER WITH HMA.



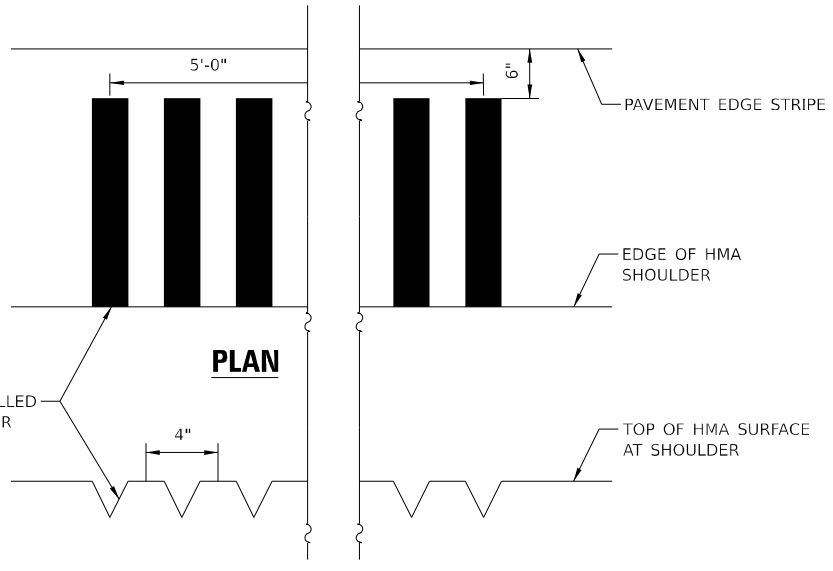
**PLAN OF CORNER ISLAND**  
PAID FOR AS CONCRETE MEDIAN, TYPE SB (DOWELLED)

\*\* MERGE DOUBLE YELLOW MEDIAN STRIPING AT STA. 15+70. BEGIN DOUBLE YELLOW CENTER STRIPING TO STA. 17+25.



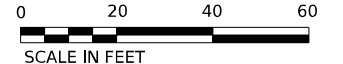
**PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
  - 2 4" (100) SOLID (YELLOW)
  - 3 12" (300) DIAGONAL (YELLOW) (THERMOPLASTIC)
  - 4 4" (100) DOUBLE YELLOW (NARROW) (THERMOPLASTIC)
  - 5 12" (300) SOLID WHITE
  - 6 4" (100) DOUBLE YELLOW (WIDE)
  - 7 6" (150) SKIP-DASH (WHITE)
  - 8 4" (100) SOLID (WHITE)
  - 9 12" (300) DIAGONAL (WHITE) (THERMOPLASTIC)
  - 10 6" (150) SOLID (WHITE)
  - 11 24" (600) STOP BAR (WHITE) (THERMOPLASTIC)
  - 12 8" (200) SOLID (WHITE) (THERMOPLASTIC)
  - 13 4" (100) PARKING WHITE
- 



**SHOULDER RUMBLE STRIP DETAIL**

NOTE: ALL PAVEMENT MARKING SHALL BE PAINT, UNLESS OTHERWISE NOTED.



MODEL: MAKE: RD - Plan - 1 (Sheet)  
FILE NAME: C:\Users\swilt\Desktop\SUBMIT\074986-ih-intersec.dgn

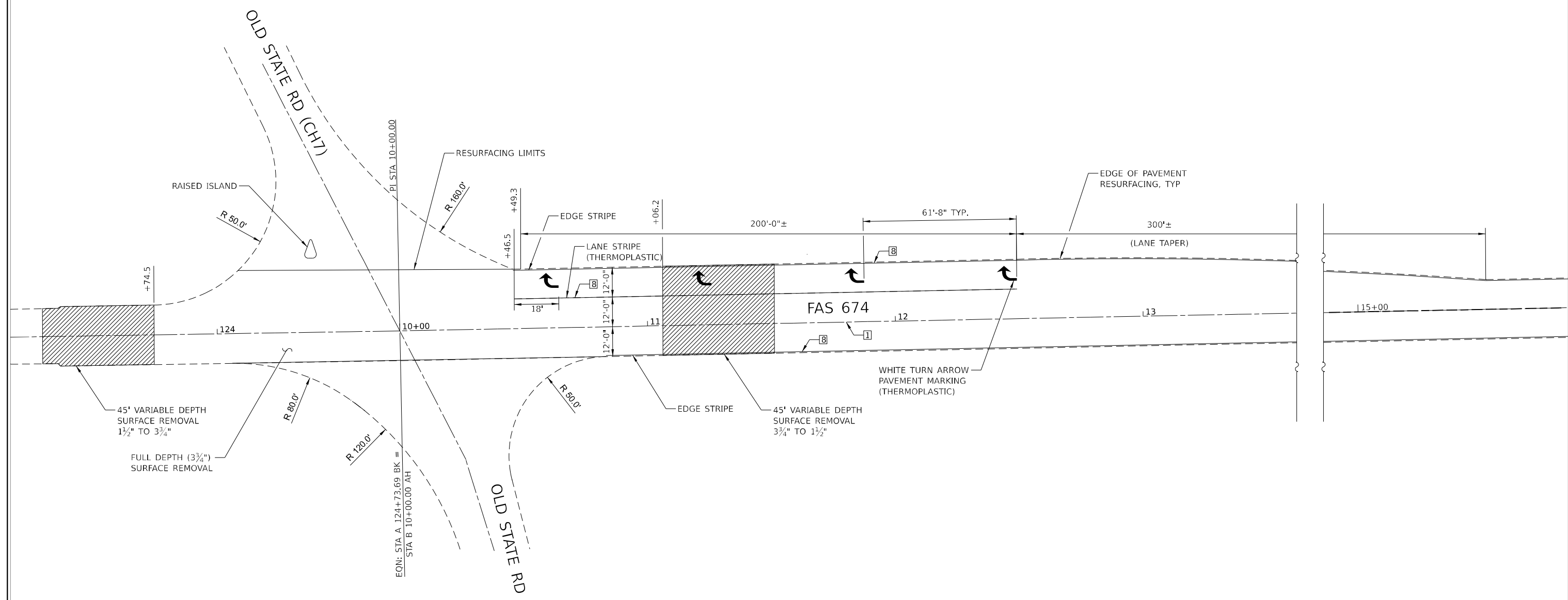
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = swilt	DESIGNED - HEK	REVISED - _____
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PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____

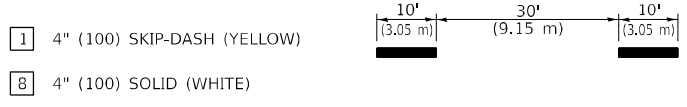
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>INTERSECTION DETAIL - IL 16</b>			
<b>FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE</b>			
SCALE: _____	SHEET 1	OF 3 SHEETS	STA. _____ TO STA. _____

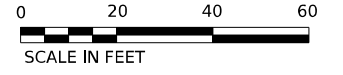
F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 34
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**



NOTE: ALL PAVEMENT MARKING SHALL BE PAINT, UNLESS OTHERWISE NOTED.



MODEL: ILLINOIS - Plan 2 (Sheet)  
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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

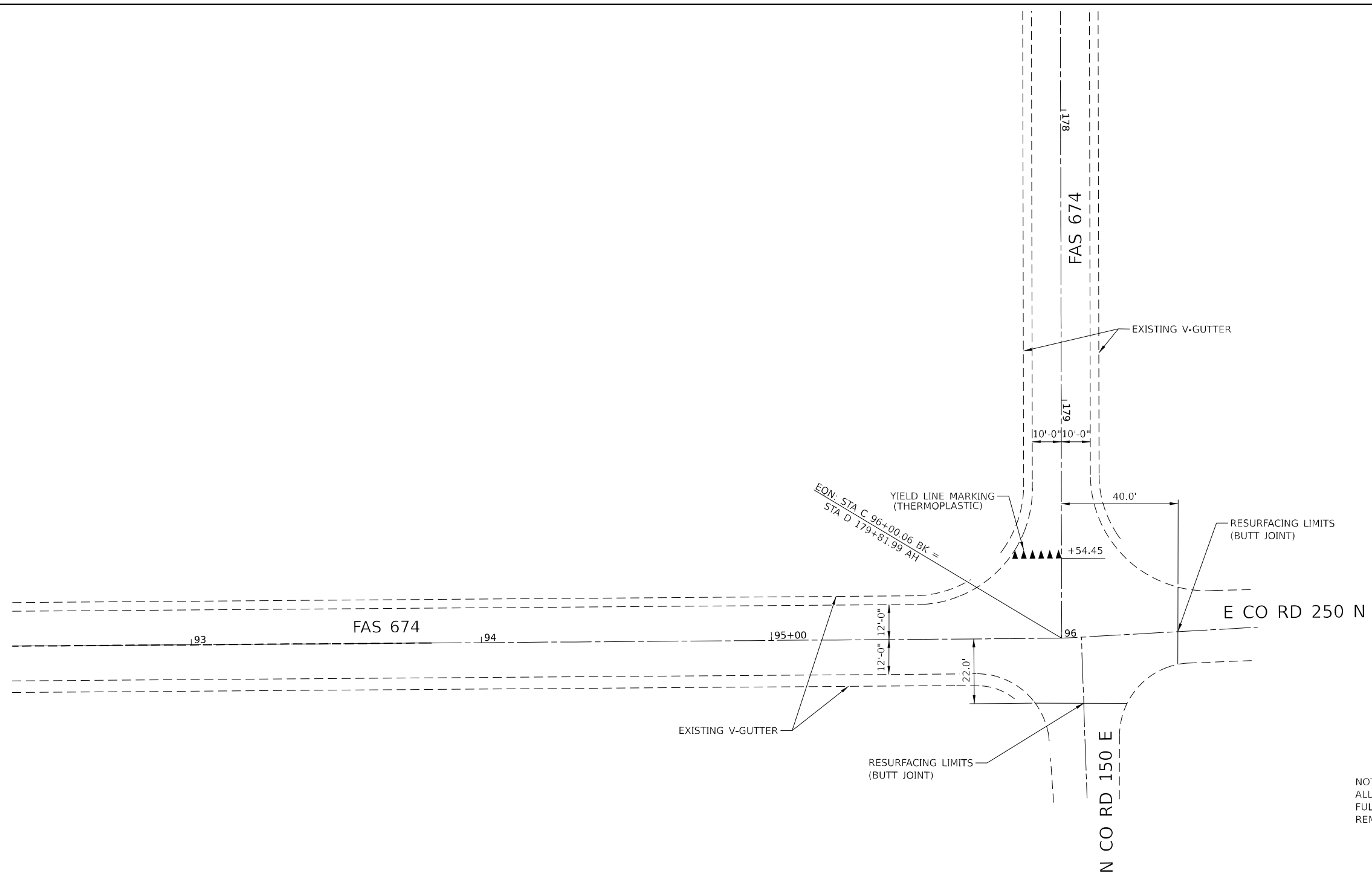
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PLOT DATE = 2/5/2024	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

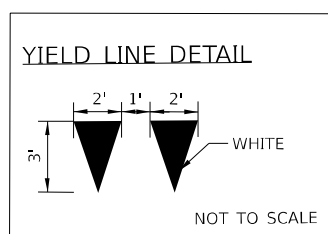
**INTERSECTION DETAIL - OLD STATE RD  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 2 OF 3 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	35
CONTRACT NO. 74986			ILLINOIS FED. AID PROJECT	



NOTE:  
ALL RESURFACING WITHIN THE LIMITS OF THIS DETAIL INCLUDES FULL DEPTH (3¾") SURFACE REMOVAL. SEE PLANS FOR SURFACE REMOVAL TRANSITIONS BEYOND.



MODEL: I:\ME RD - Plan 3 (Sheet)  
FILE NAME: C:\Users\swirt\Documents\SUBMIT\74986-eh-intersec.dgn

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = swirt	DESIGNED - HEK	REVISED - _____
	DRAWN - HEK	REVISED - _____
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PLOT DATE = 2/5/2024	DATE - 10-05-2023	REVISED - _____

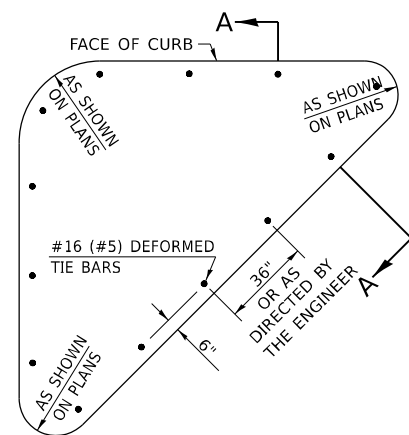
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION DETAILS - CO RD 150E  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

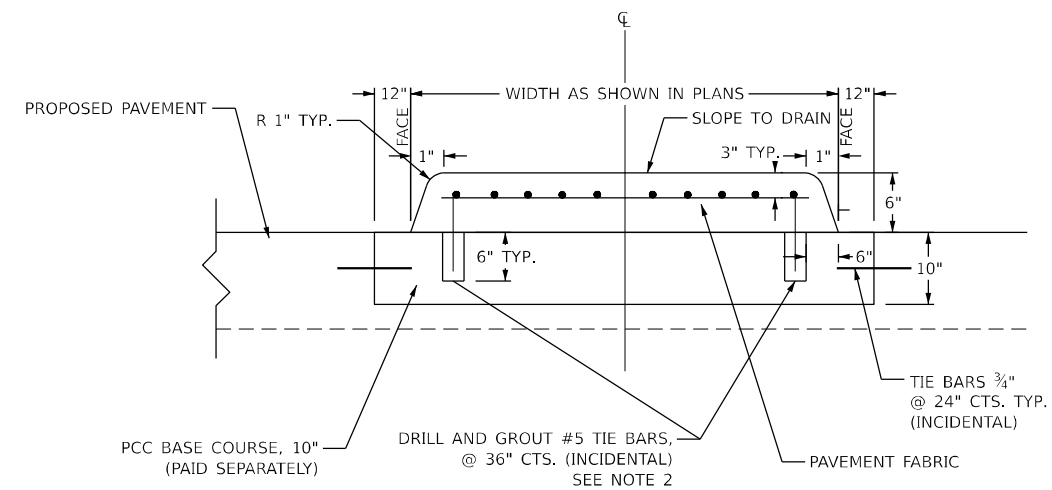
SCALE: \_\_\_\_\_ SHEET 3 OF 3 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	36
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

# DETAIL OF CONCRETE MEDIAN, TYPE SB (DOWELLED)



**PLAN OF CORNER ISLAND**



**SECTION A-A**

NOTES

1. CONCRETE MEDIAN, TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
2. SECTION G-G SHALL BE THE SAME AS SHOWN IN STANDARD 606301.
3. DOWEL BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER.

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 FILE NAME: C:\Users\switt\Desktop\SUBMIT\0774986-ht-cm16.dgn

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PLOT DATE = 2/5/2024	DATE - 10-05-2023	REVISED - _____

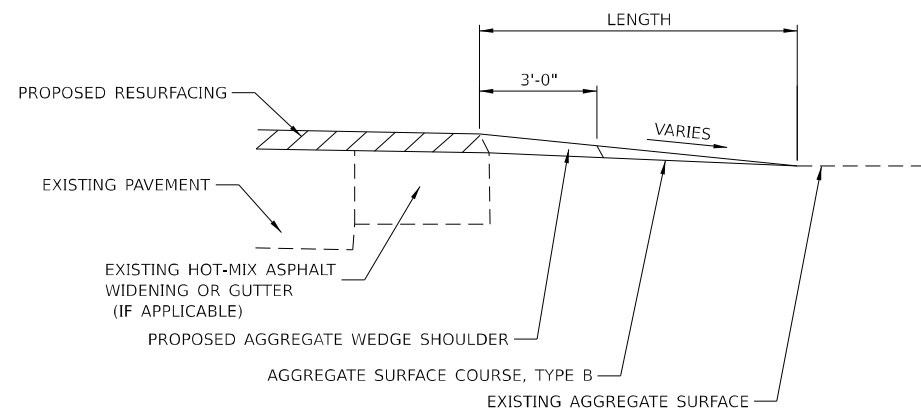
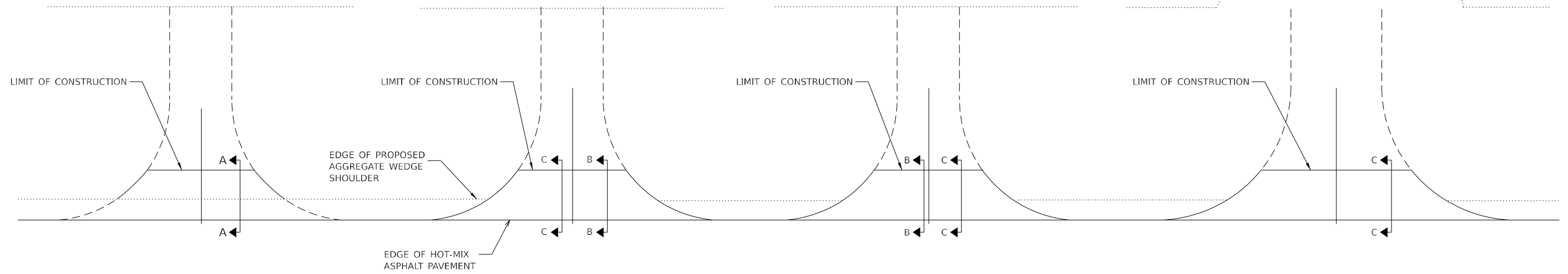
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674	D7 HMA RESURF 2024-1	COLES	48	37
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

**FIELD ENTRANCE**

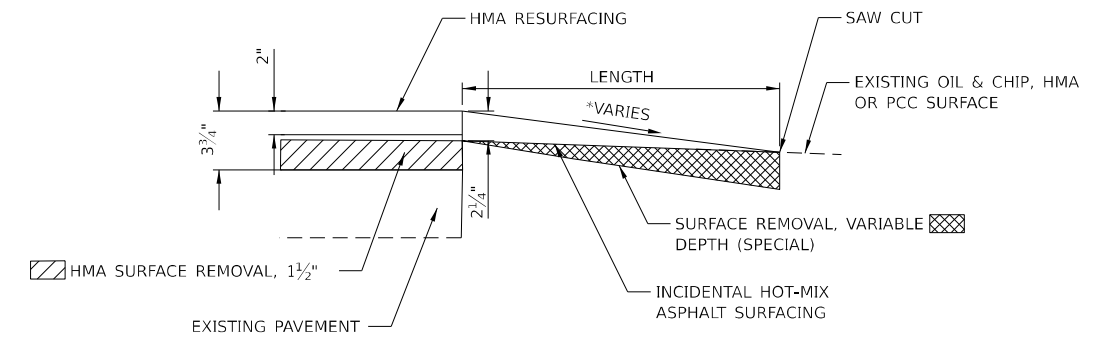
**PRIVATE ENTRANCE**

**COMMERCIAL ENTRANCE**

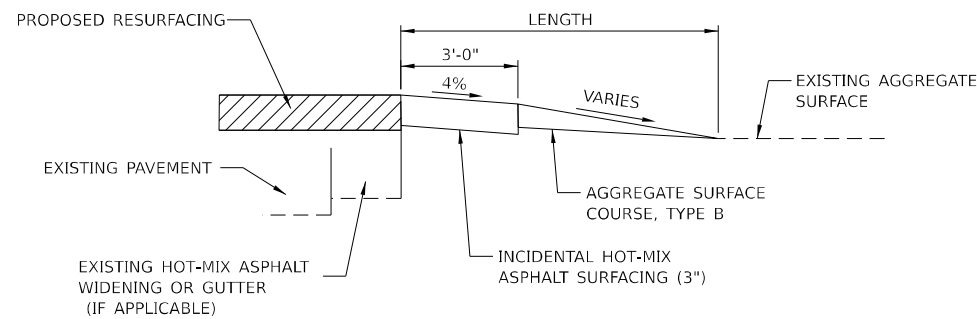
**PUBLIC ROAD APPROACH**



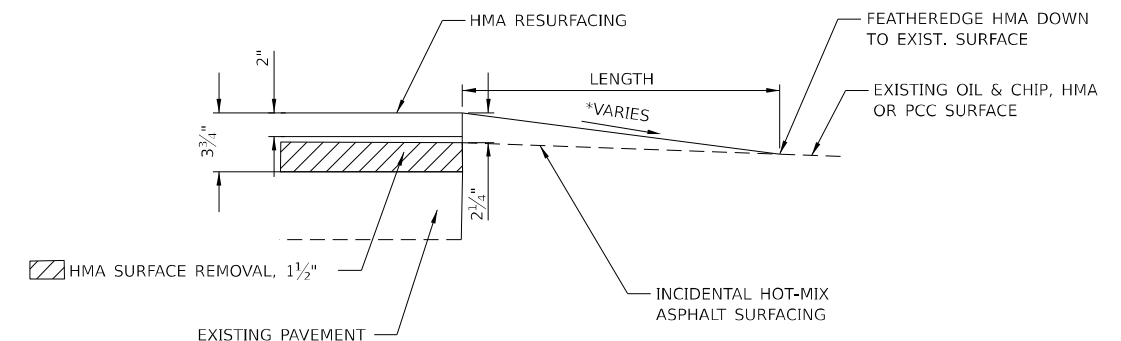
**SECTION A-A**



**SECTION C-C**



**SECTION B-B**



**SECTION D-D**

\*4% SLOPE FOR WIDTH OF SHOULDER AT ENTRANCES ONLY

LENGTH = 10' UNLESS OTHERWISE NOTED ON PLANS

MODEL: Default  
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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = switt	DESIGNED - HEK	REVISED - _____
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PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RURAL ENTRANCE DETAIL (AGGREGATE SHOULDER)  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 1 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

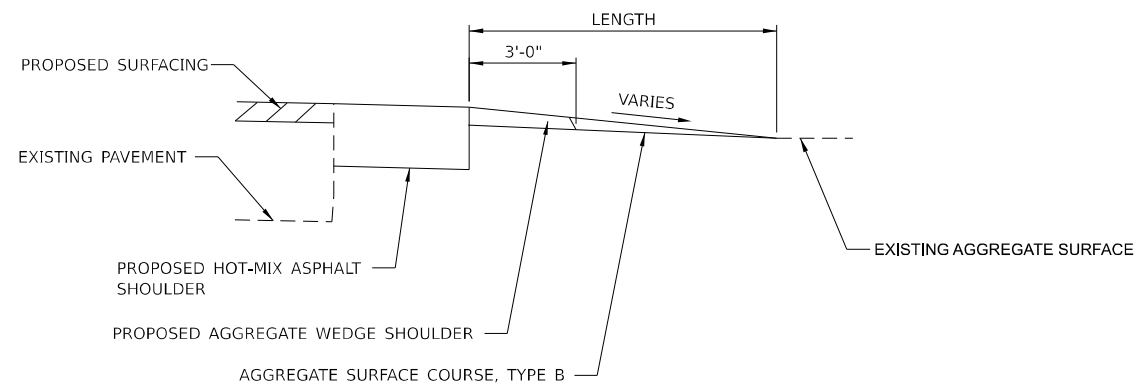
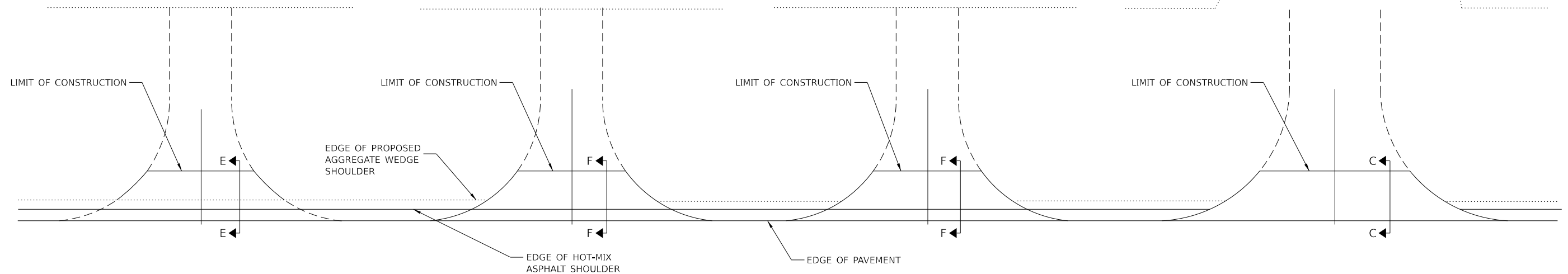
F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 38
CONTRACT NO. 74986			ILLINOIS FED. AID PROJECT	

**FIELD ENTRANCE**

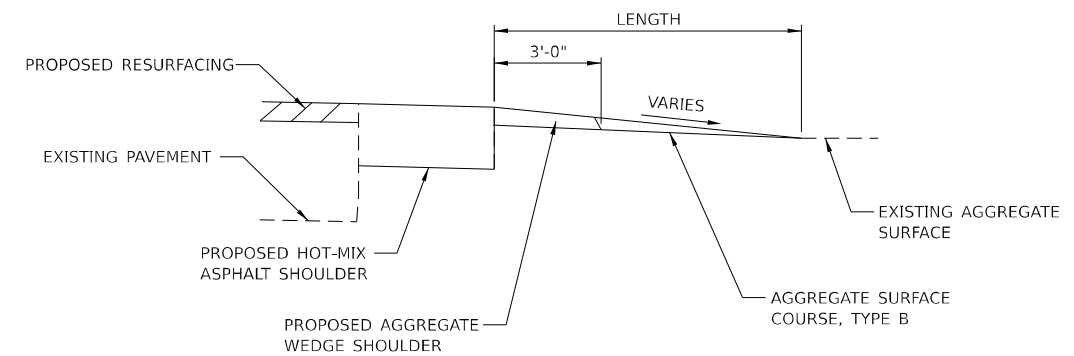
**PRIVATE ENTRANCE**

**COMMERCIAL ENTRANCE**

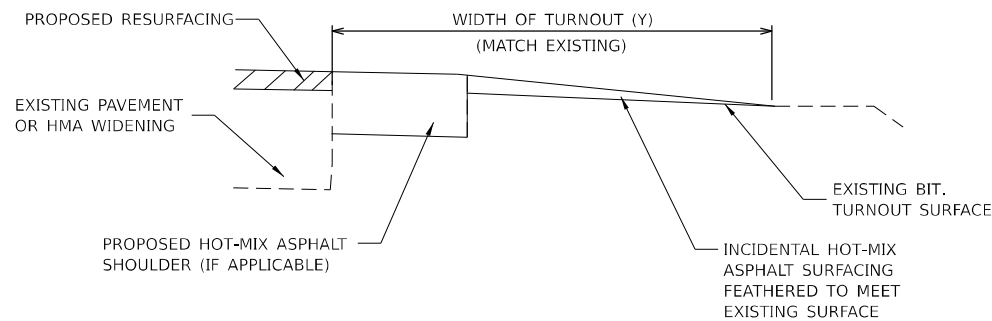
**PUBLIC ROAD APPROACH**



**SECTION E-E**

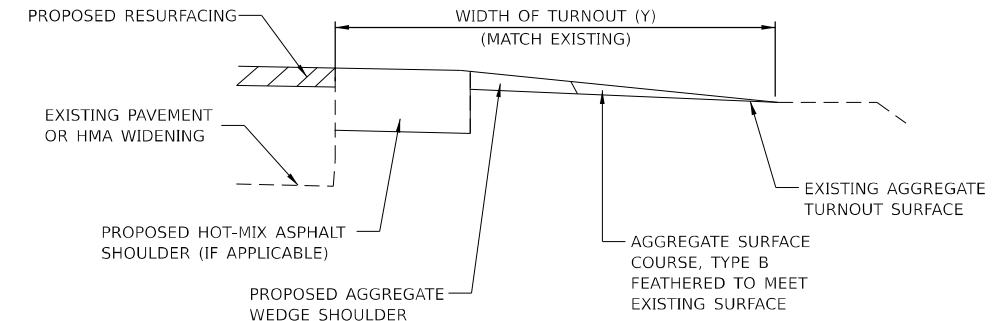


**SECTION F-F**



**TYPICAL SECTION AT MAILBOX TURNOUT**

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS



**TYPICAL SECTION AT MAILBOX TURNOUT**

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

LENGTH = 10' UNLESS OTHERWISE NOTED ON PLANS

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH AGGREGATE COMMERCIAL ENTRANCES AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

SEE SHEET 38 FOR SECTION C-C

MODEL: Default  
FILE NAME: C:\Users\switt\Desktop\SUBMIT\074986-ah-misc.dgn



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PLOT DATE = 2/5/2024	CHECKED - CMF	REVISED - _____
	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

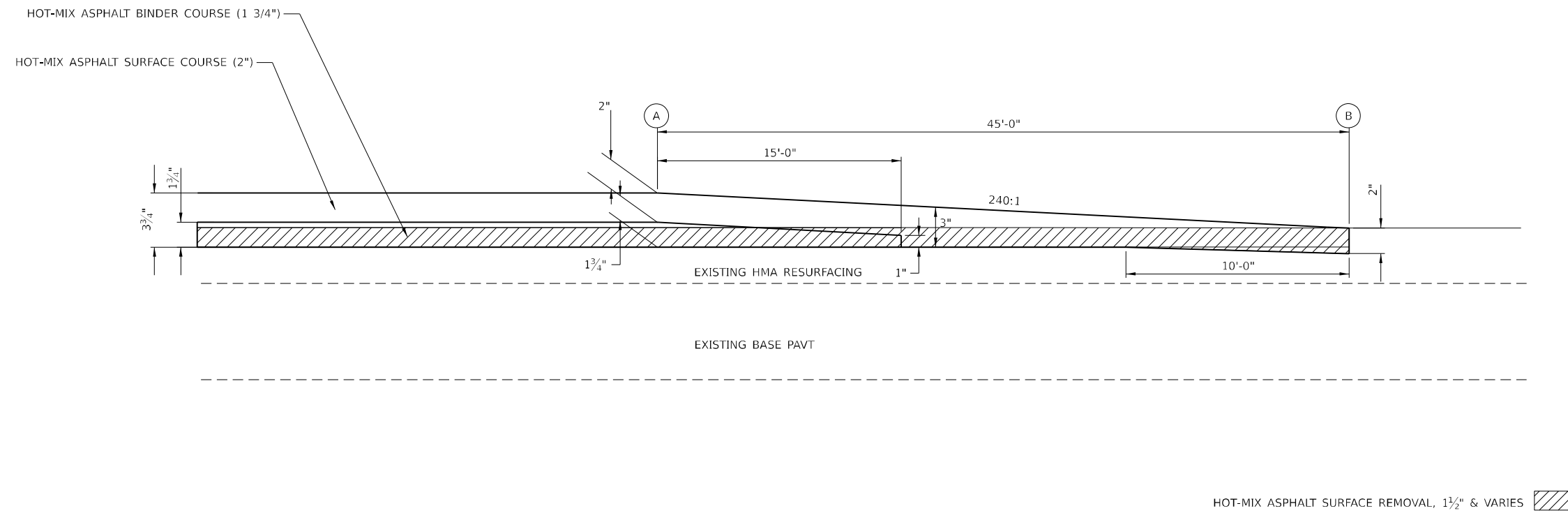
**RURAL ENTRANCE (PAVED SHOULDER) AND MAIL BOX TURNOUT DETAIL  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET 2 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE. 674	SECTION D7 HMA RESURF 2024-1	COUNTY COLES	TOTAL SHEETS 48	SHEET NO. 39
CONTRACT NO. 74986			ILLINOIS FED. AID PROJECT	

**BUTT JOINT DETAIL**

STATION	TO	STATION
C 84+70.00		C 85+15.00
D 134+25.40		D 133+72.00
D 132+44.00		D 131+90.60
E 73+60.00		E 74+05.00



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DRAWN	- HEK
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CHECKED	- CMF
DATE	- 10-05-2023
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAILS  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: \_\_\_\_\_ SHEET OF SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

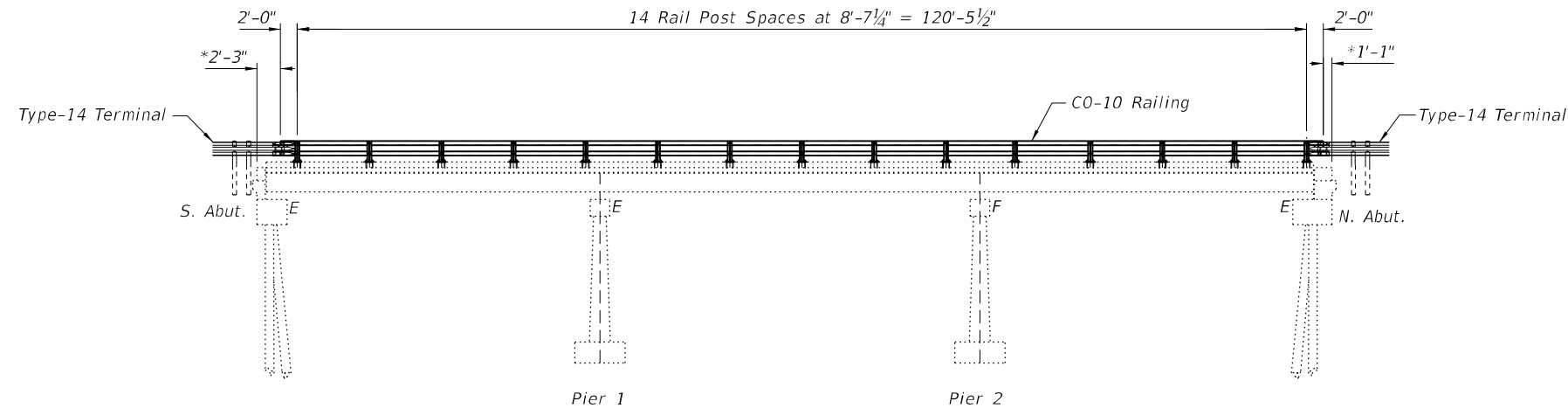
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	40
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



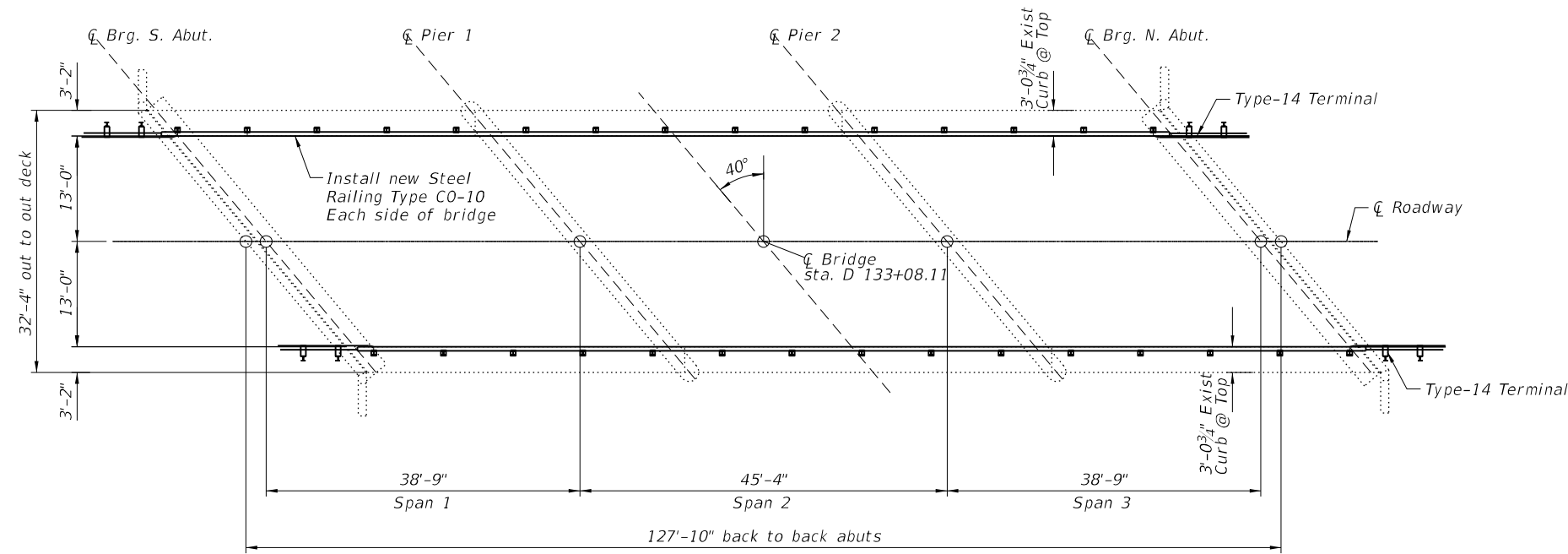
\*Measured Along  $\zeta$  of Posts from end of rail to Back of Abutment

**GENERAL NOTES**

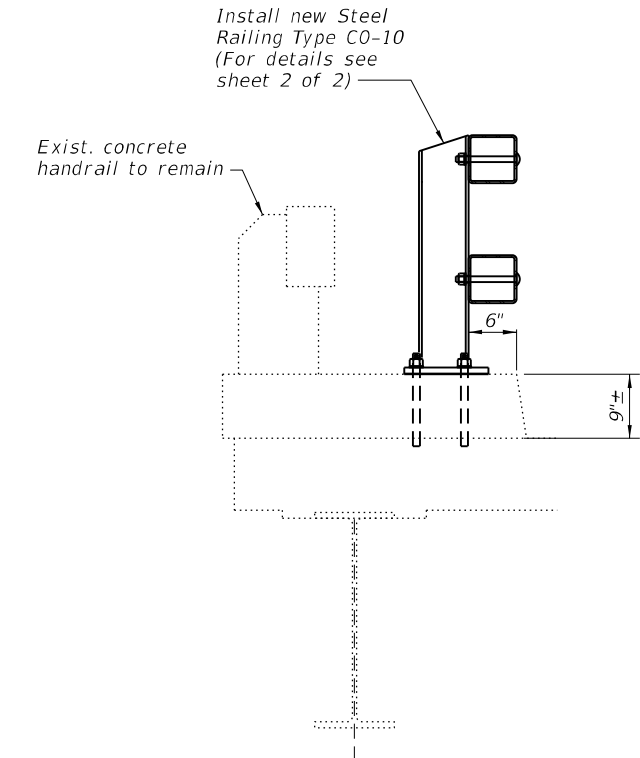
Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



**ELEVATION**



**PLAN**



**SECTION THRU EXISTING CURB**

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Steel Railing, Type C0-10	Foot	250

JEREMY BUENING  
 081-006696  
 STATE OF ILLINOIS  
 LICENSED STRUCTURAL ENGINEER

Jeremy Buening, P.E., S.E.      2/5/2024  
 License Expires 11/30/24      Date

MODEL: Default  
 FILE NAME: I:\DOT\8636 D7 Var. Var\8636.02\_WO 2 - Lake Paradise Road Resurfacing\CADD\Structural\GPE.dgn

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS  
 184-004397

USER NAME = switt	DESIGNED - CMF	REVISD - _____
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PLOT DATE = 2/2/2024	DRAWN - RLK	REVISD - _____
	CHECKED - JMB	REVISD - _____

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

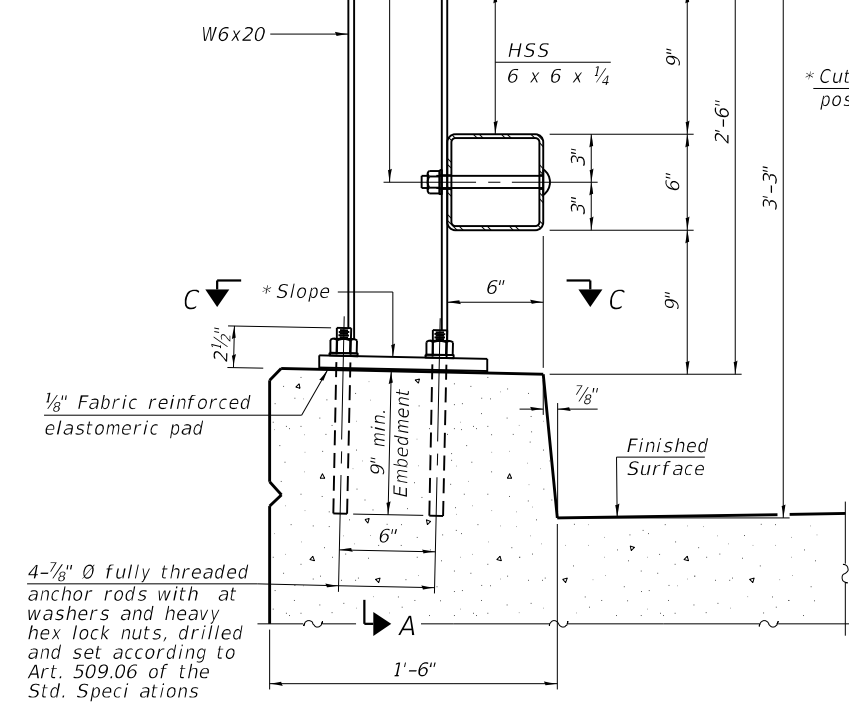
**GENERAL PLAN AND ELEVATION**  
**FAS 674 - BRIDGE OVER LITTLE WABASH RIVER SN 015-0034**

SHEET 1 OF 2 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	41
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

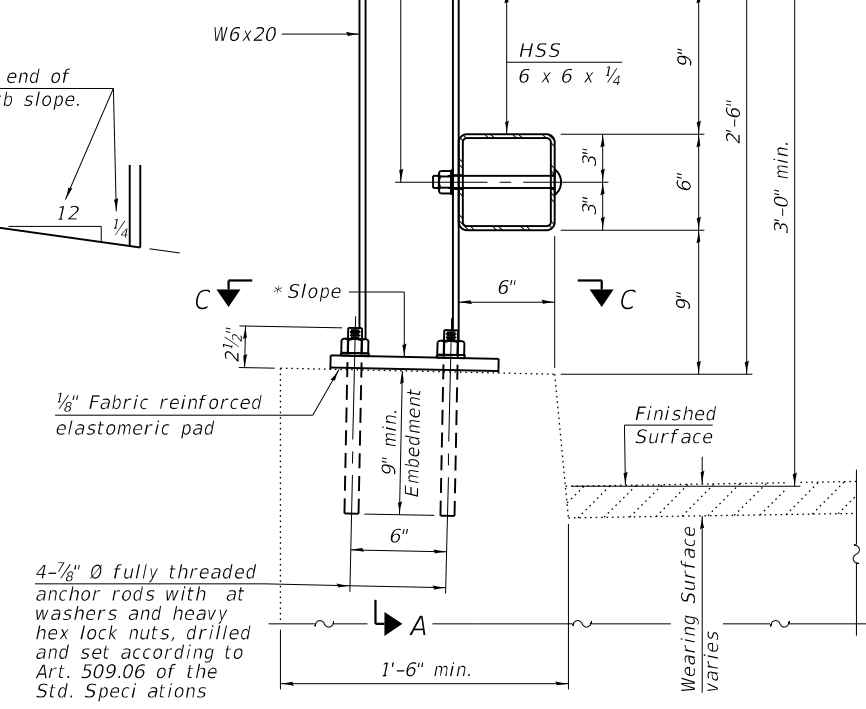
4 - 3/4" Ø x 7 1/2" Round head bolts with heavy hex locknuts and at washers. Field drill 7/8" Ø holes in HSS tubing using holes in post as template.



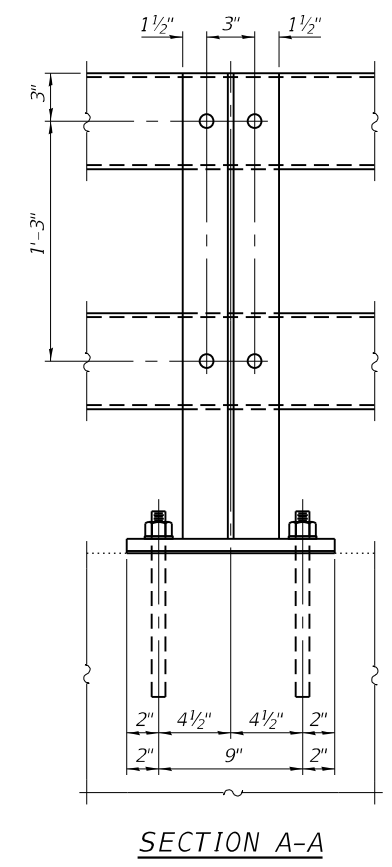
**SECTION AT RAIL POST**  
(New construction)

4 - 3/4" Ø x 7 1/2" Round head bolts with heavy hex locknuts and at washers. Field drill 7/8" Ø holes in HSS tubing using holes in post as template.

\*Cut bottom end of post to curb slope.

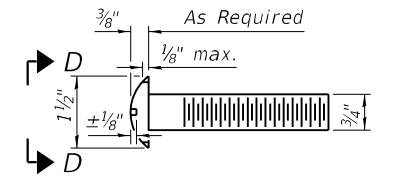


**SECTION AT RAIL POST**  
(Retrofit construction)

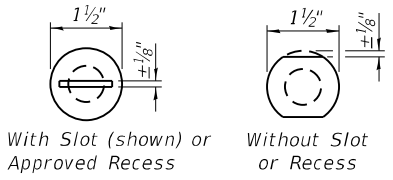


**SECTION A-A**

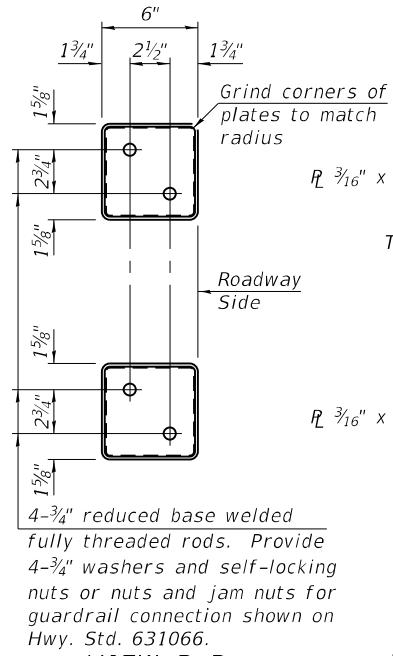
Notes:  
 All HSS tubing shall be ASTM A500 grade C.  
 All plates shall be AASHTO M270 grade 50.  
 All heavy hex nuts shall be according to ASTM A563 grade DH.  
 All fully threaded anchor rods shall be ASTM F1554 grade 105.  
 The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.  
 Posts shall not be located closer than 1'-6" to a bridge expansion joint.  
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.  
 All round head bolts shall be ASTM A449.



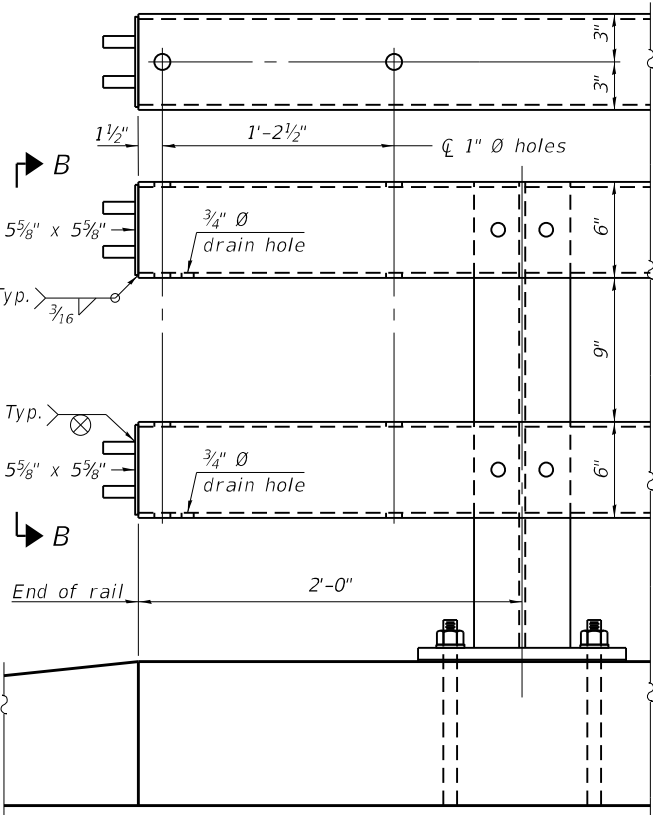
**ROUND HEAD BOLT DETAIL**



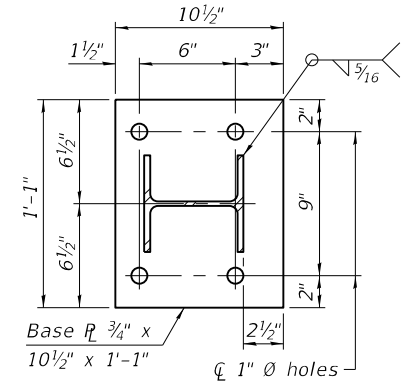
**VIEW D-D**



**VIEW B-B**



**END OF RAIL DETAILS**



**SECTION C-C**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type C0-10	Foot	250

**RAILING CRITERIA**

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

MODEL: Default  
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 CHASTAIN & ASSOCIATES LLC  
 CONSULTING ENGINEERS  
 184-001397

USER NAME = switt	DESIGNED - CME	REVISED -
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PLOT DATE = 2/5/2024	DRAWN - RLK	REVISED -
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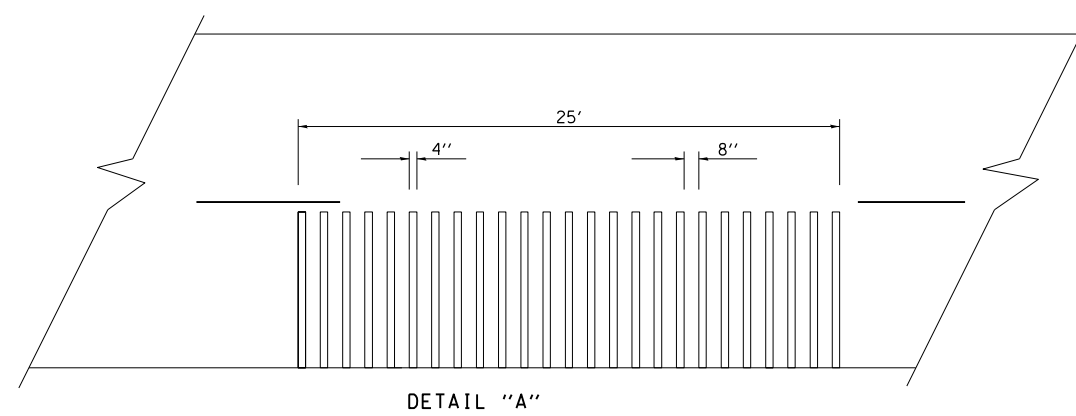
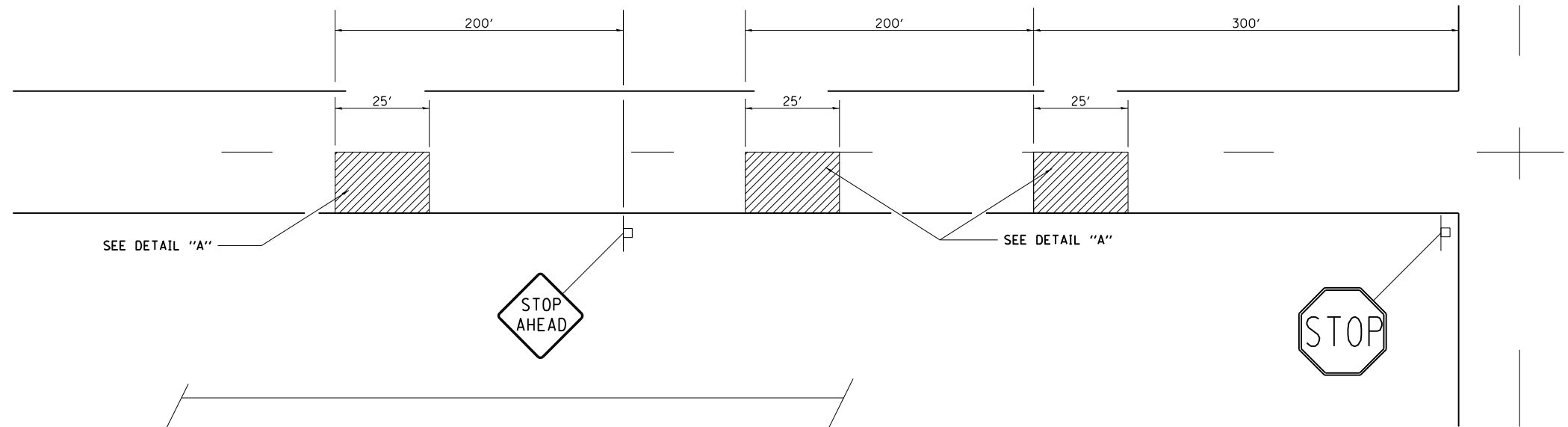
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE C0-10**  
**FAS 674 - BRIDGE OVER LITTLE WABASH RIVER SN 015-0034**

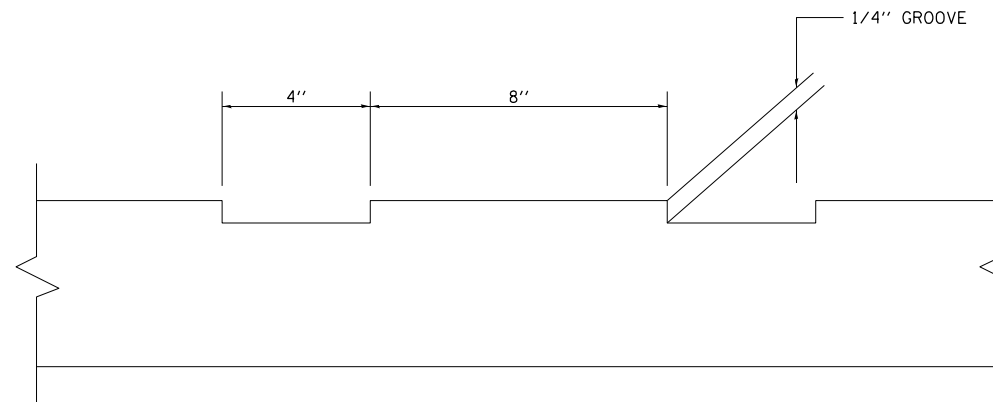
SHEET 2 OF 2 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	42
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

# TYPICAL RUMBLE STRIP APPLICATION IN ADVANCE OF AN INTERSECTION



**NOTE:** THE 25 FEET RUMBLE AREA HAS 4" WIDE GROOVES SAWED INTO THE PAVEMENT, SEPARATED BY 8" OF EXISTING PAVEMENT. THE SAW CUTS SHALL EXTEND 12" INTO THE SHOULDER TO ALLOW FOR DRAINAGE.



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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

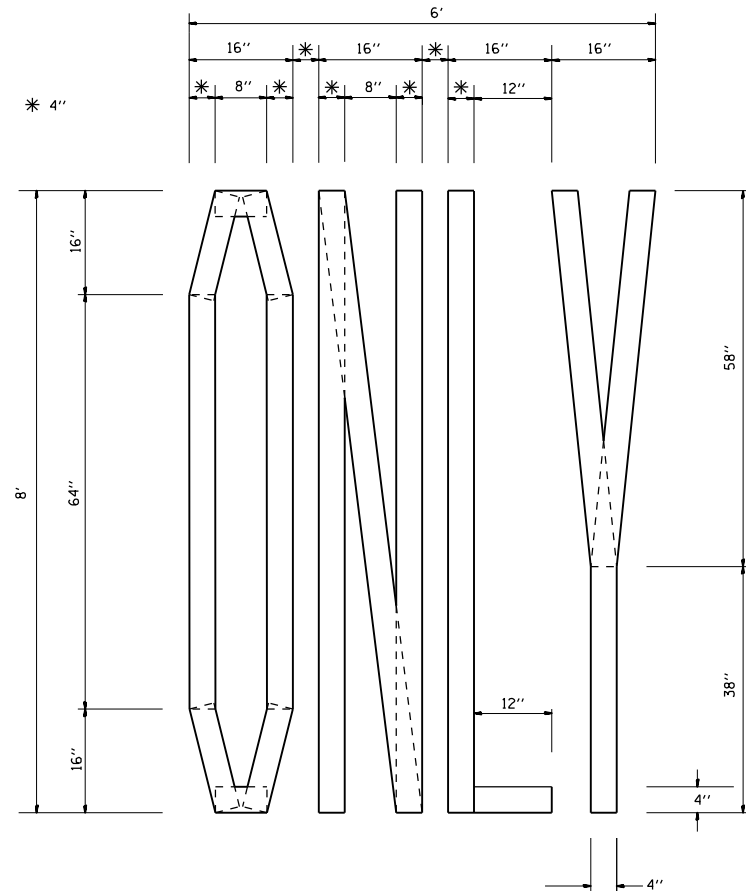
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PLOT DATE = 2/5/2024	DATE - 10-05-2023	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RUMBLE STRIP  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

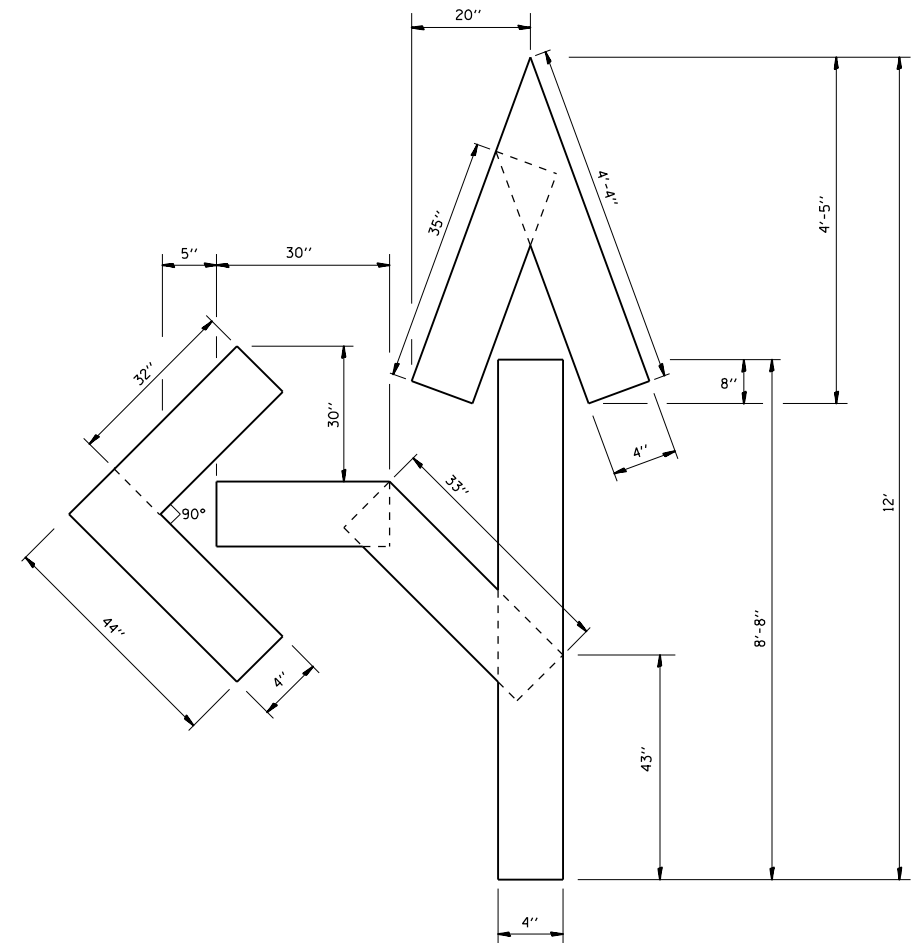
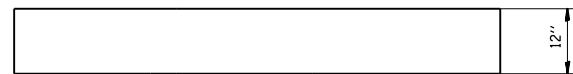
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	43
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

SCALE: \_\_\_\_\_ SHEET OF SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

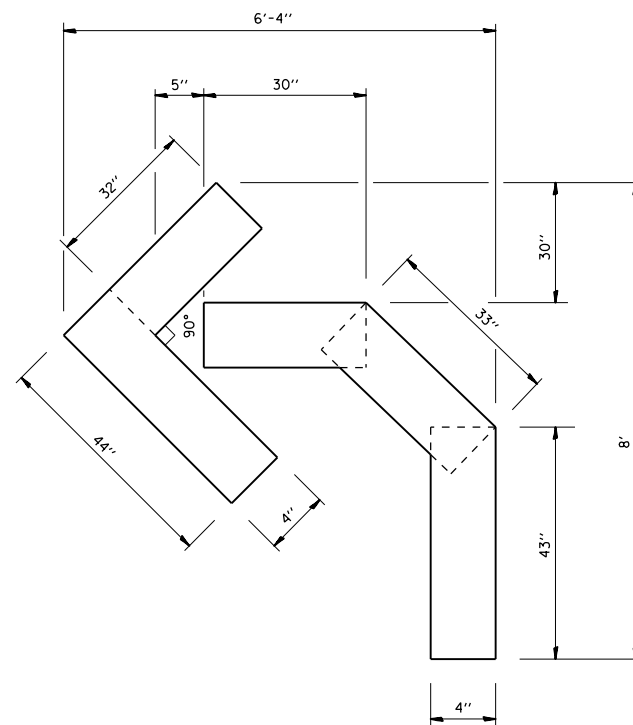


QUANTITY  
4" LINE = 63.2 ft.  
21.0 sq. ft.

SHORT TERM STOP BAR



QUANTITY  
4" LINE = 27.5 ft.  
9.2 sq. ft.



QUANTITY  
4" LINE = 15.2 ft.  
5.0 sq. ft.

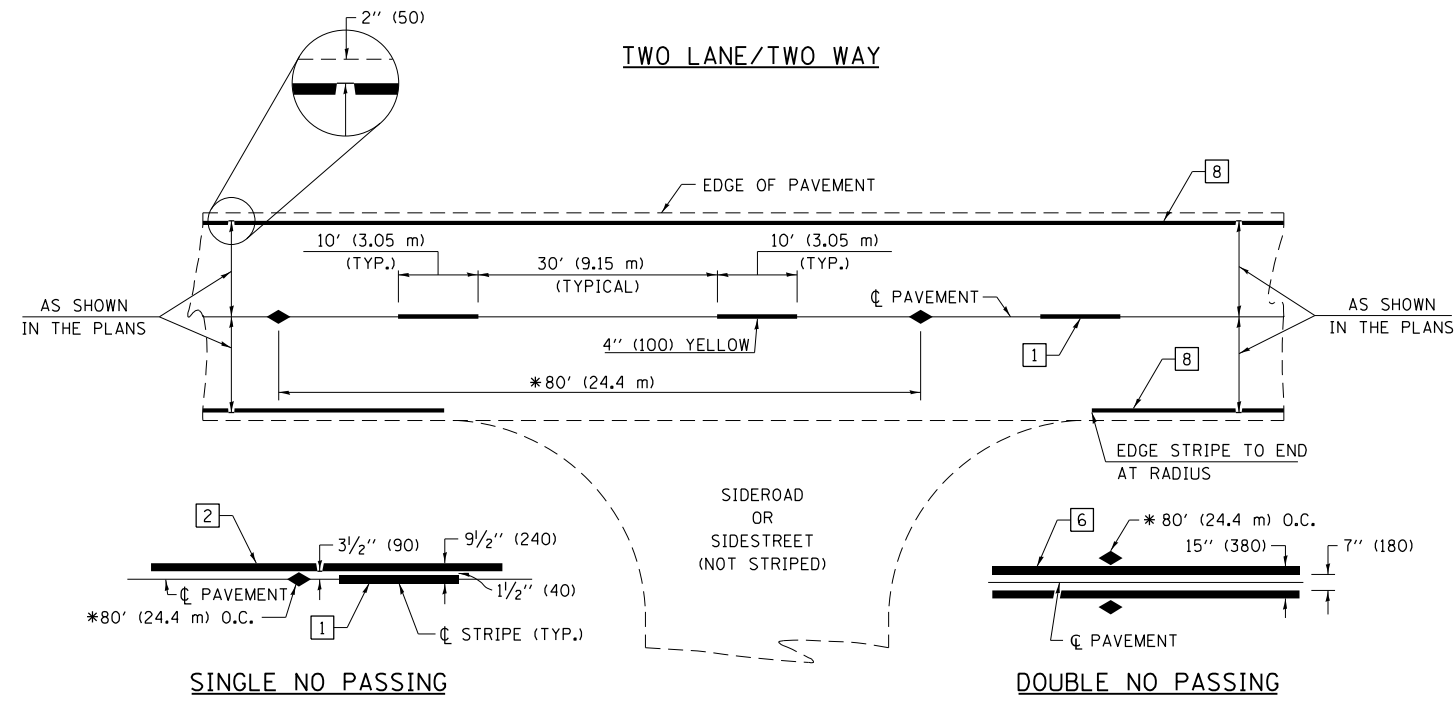
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	44
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

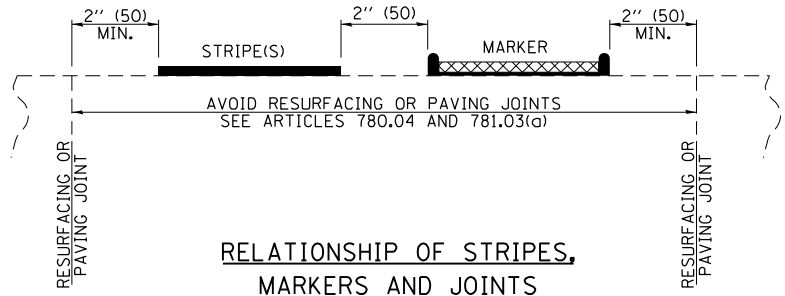
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PLOT SCALE = 0.1667' / in.	DRAWN - HEK	REVISED -
PLOT DATE = 2/6/2024	CHECKED - CMF	REVISED -
	DATE - 10-05-2023	REVISED -



PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

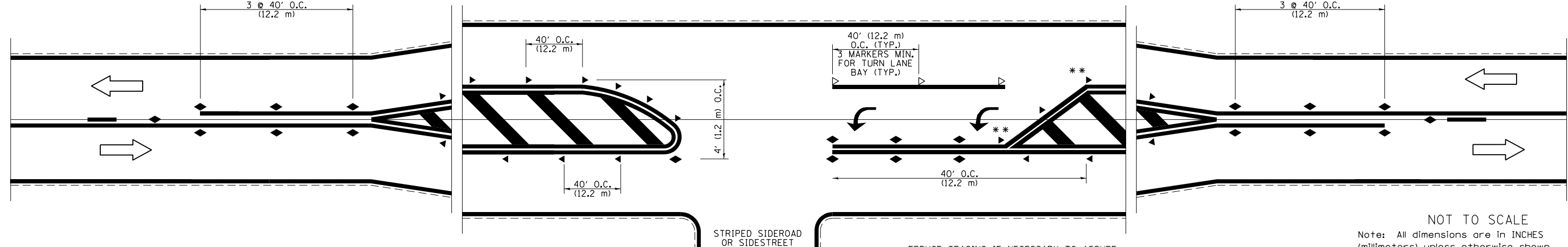
\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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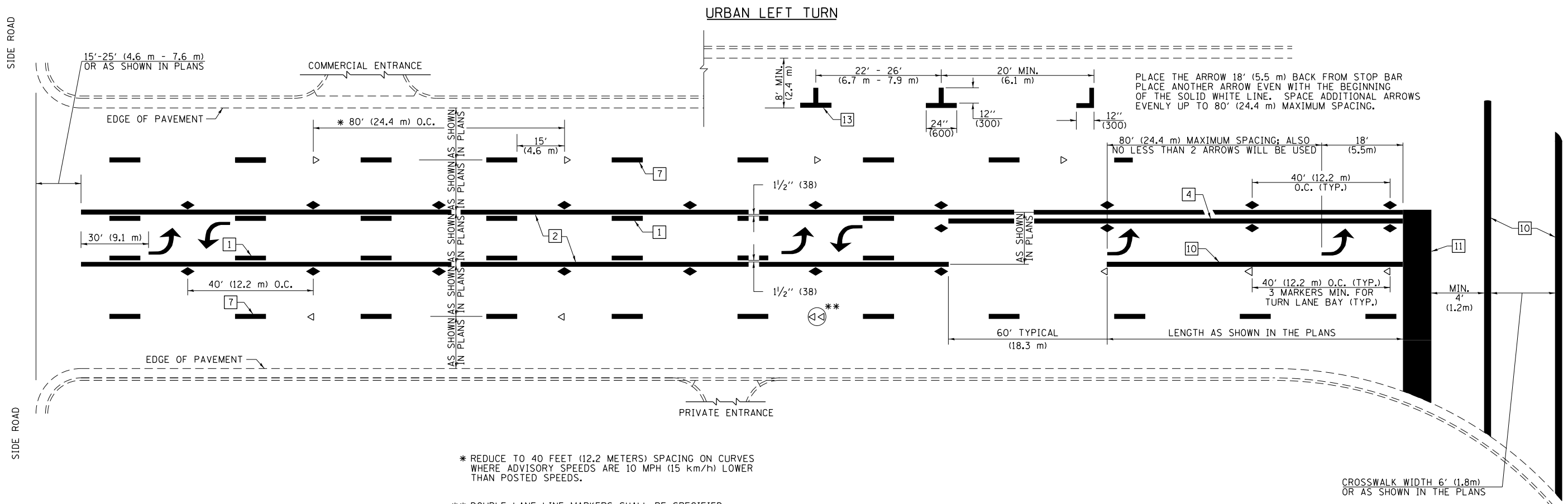
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REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

<b>DISTRICT 7 DETAIL NO. 7800001</b>				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	45
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				



\* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

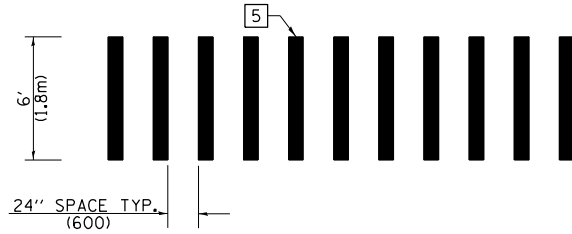
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

**PAVEMENT MARKING LEGEND**

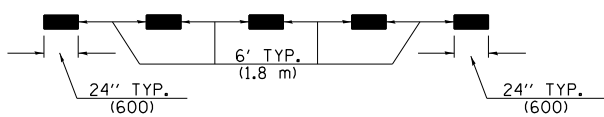
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

**GENERAL NOTES**

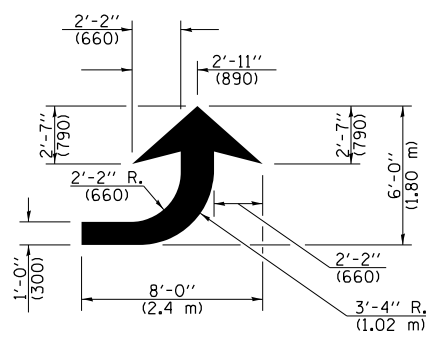
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE SECTION 780 FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
6. ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



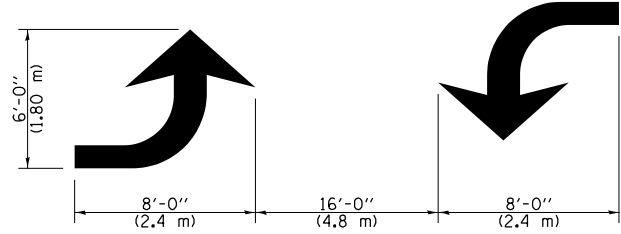
**CROSSWALK DETAIL  
(DECATUR CITY LIMITS ONLY)**



**LANE LINE EXTENSIONS**



**LEFT ARROW**  
REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)



**TYPICAL DOUBLE  
TURN ARROWS (WHITE)**

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 7800001**

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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

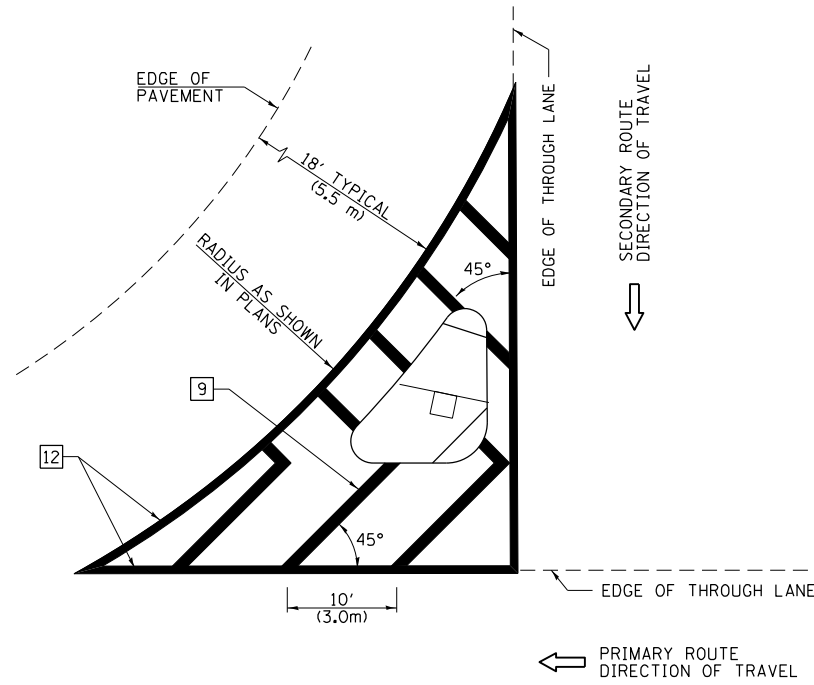
**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS**  
**FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	46
CONTRACT NO. 74986				
ILLINOIS FED. AID PROJECT				

**ISLANDS**

**OPTION 1**

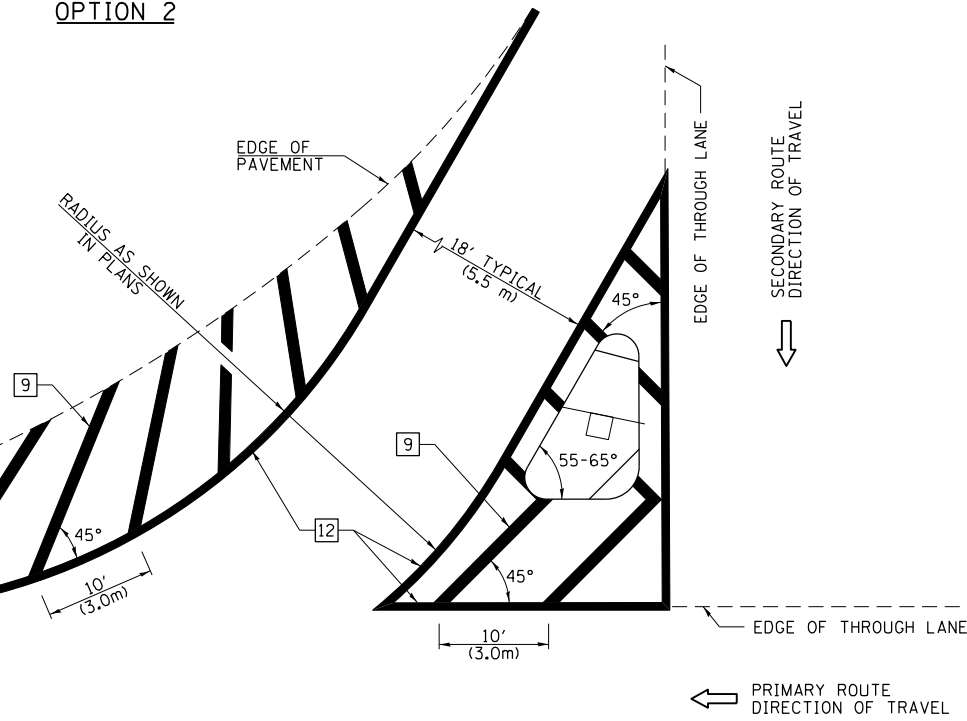


**GENERAL NOTES**

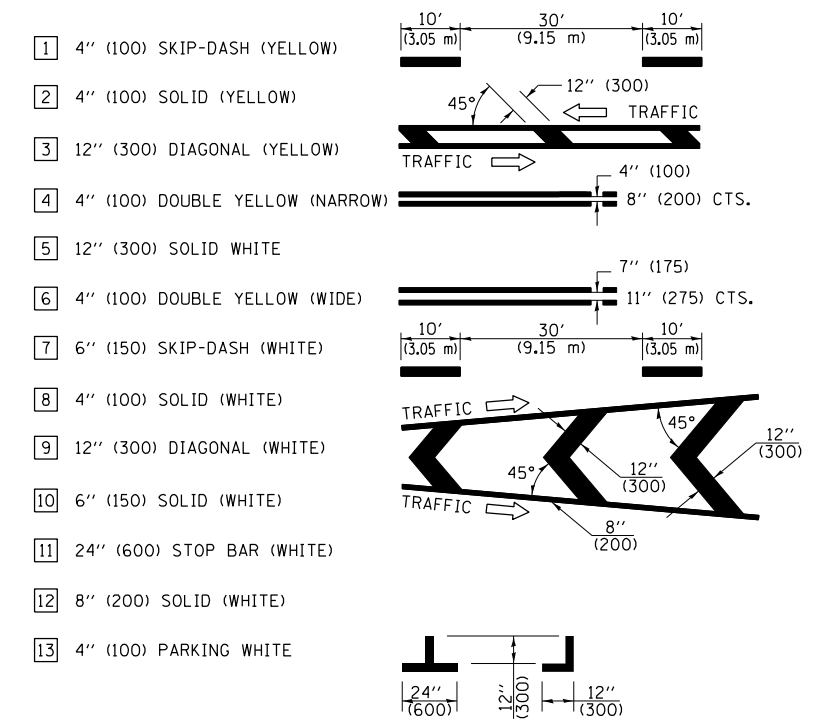
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2].
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:
 

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)
6. THE USE OF ISLAND STRIPING OPTION 1 OR OPTION 2 SHALL BE AS SHOWN ON THE PLANS.

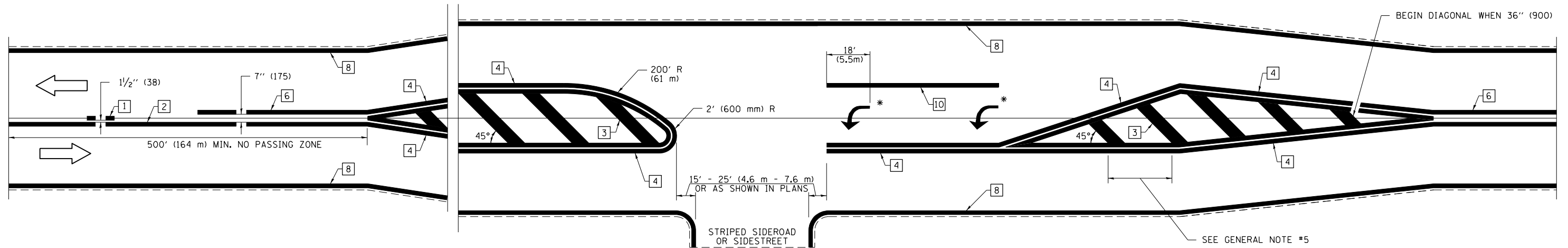
**OPTION 2**



**PAVEMENT MARKING LEGEND**



**RURAL LEFT TURN STRIPING**



\* PLACE AN ARROW 18' (5.5 m) BACK FROM END OF THE SOLID WHITE LINE. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 7800001**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	47
CONTRACT NO. 74986				
ILLINOIS		FED. AID PROJECT		

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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

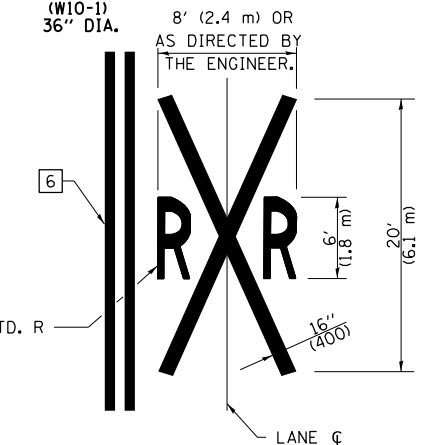
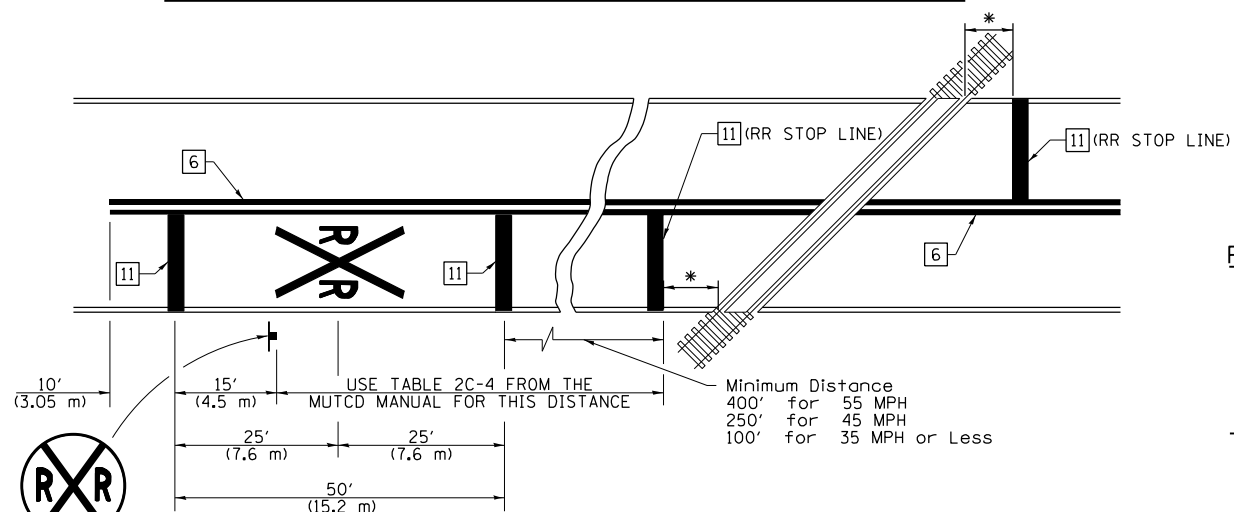
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PLOT SCALE = 0.1667' / in.	DRAWN - HEK	REVISED -
PLOT DATE = 2/6/2024	CHECKED - CMF	REVISED -
	DATE - 10-05-2023	REVISED -

# SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

## PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
  - 2 4" (100) SOLID (YELLOW)
  - 3 12" (300) DIAGONAL (YELLOW)
  - 4 4" (100) DOUBLE YELLOW (NARROW)
  - 5 12" (300) SOLID WHITE
  - 6 4" (100) DOUBLE YELLOW (WIDE)
  - 7 6" (150) SKIP-DASH (WHITE)
  - 8 4" (100) SOLID (WHITE)
  - 9 12" (300) DIAGONAL (WHITE)
  - 10 6" (150) SOLID (WHITE)
  - 11 24" (600) STOP BAR (WHITE)
  - 12 8" (200) SOLID (WHITE)
  - 13 4" (100) PARKING WHITE
- 

### PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



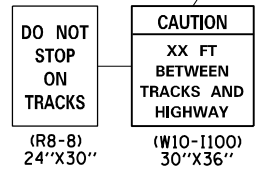
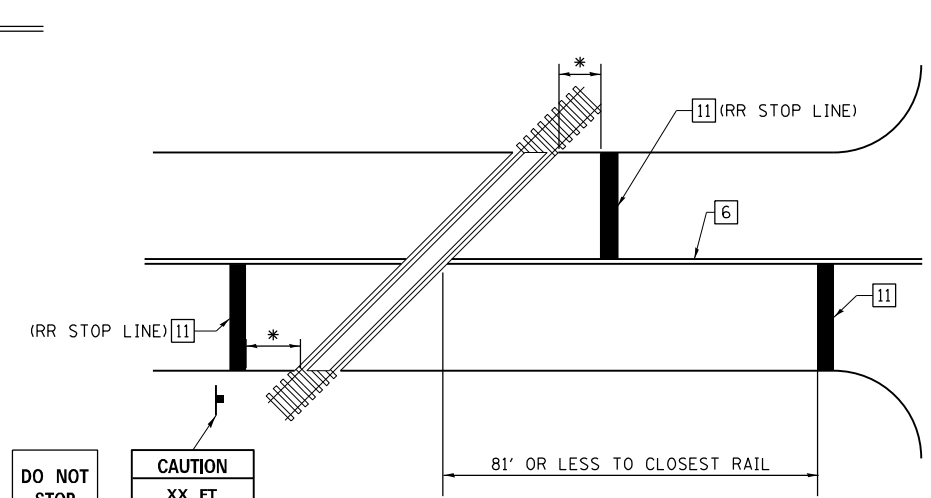
### NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

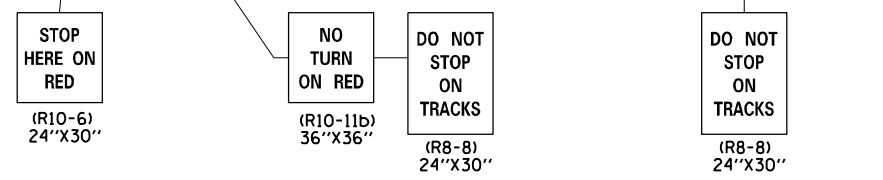
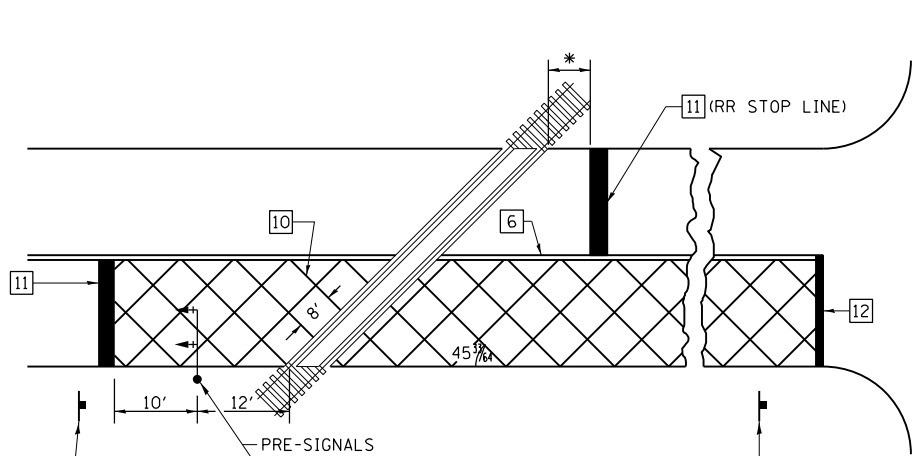
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RRR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

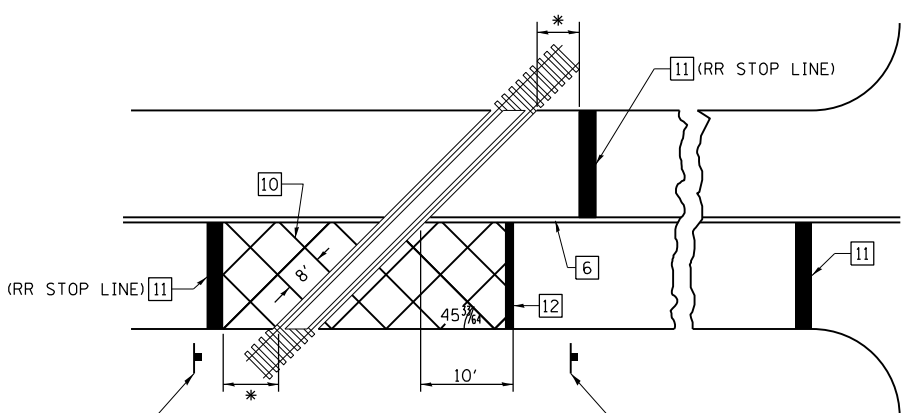
### RAILROAD CROSSING WITH NON-SIGNALIZED INTERSECTION



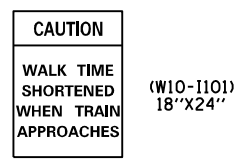
### RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



### RAILROAD CROSSING WITH INTERCONNECT ONLY



- ### GENERAL NOTES
- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
  - EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE PRE-SIGNALS ARE USED.
  - WHEN PEDESTRIAN SIGNALS ARE PRESENT WITH INTERCONNECTED SIGNALS, WARNING SIGN W10-1101 (18"x24") SHALL BE PLACED NEAR EACH PEDESTRIAN SIGNAL HEAD. COUNTDOWN PEDESTRIAN SIGNAL HEADS SHALL NOT BE UTILIZED ALONG WITH INTERCONNECTED SIGNALS.
  - PLEASE REFER TO THE IDOT BUREAU OF OPERATION MEMO OPS T-06 DATED DECEMBER 1, 2020 FOR ADDITIONAL INFORMATION.



\* 15' FROM NEAR RAIL OR 8' FROM AND PARALLEL TO GATE IF PRESENT

\*\* WARNING SIGN W10-1100 SHALL BE USED AS AN INTERIM MEASURE AT INTERCONNECTED SIGNAL LOCATIONS WHERE PRE-SIGNALS ARE TO BE INSTALLED IN THE FUTURE. THIS SIGN SHALL BE REMOVED WHEN THE PRE-SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS ARE EXTENDED TO THE INTERSECTION.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

### DISTRICT 7 DETAIL NO. 7800001

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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = swrt  
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DESIGNED - HEK  
DRAWN - HEK  
CHECKED - CMF  
DATE - 10-05-2023

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
FAS 674 - IL 16 TO CUMBERLAND COUNTY LINE

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	D7 HMA RESURF 2024-1	COLES	48	48

CONTRACT NO. 74986

ILLINOIS FED. AID PROJECT