

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	1
ILLINOIS			CONTRACT NO. 72C43	

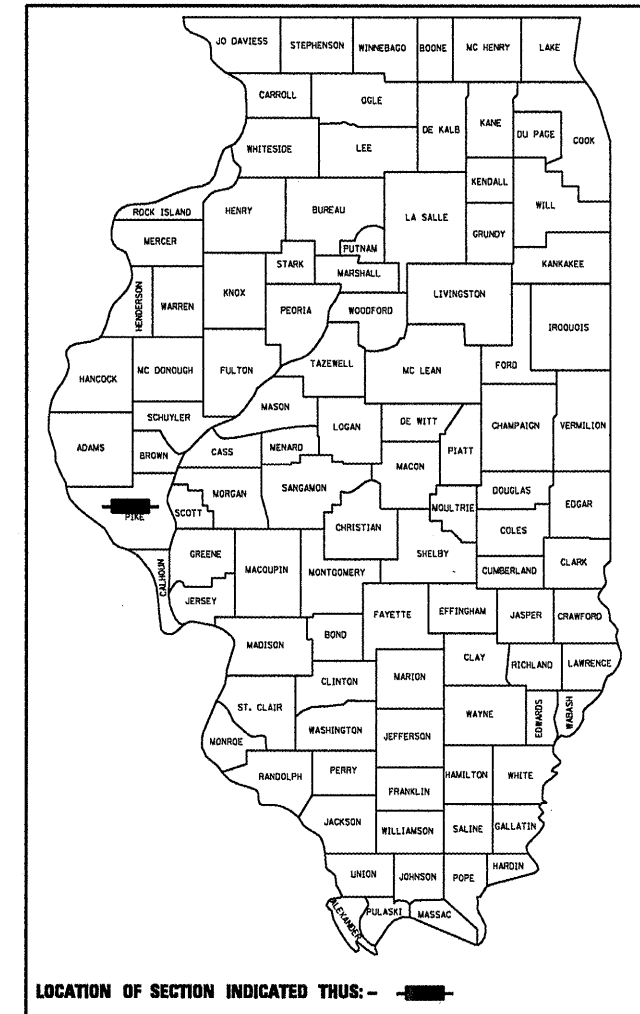
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 321 (US 54)
SECTION 106RS-5, 18RS-11

(3P) RESURFACING
PIKE COUNTY
C-96-020-09

D-96-020-09



FOR INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-12 TYPICAL SECTIONS
- 13-17 SCHEDULE OF QUANTITIES
- 18-30 PLAN SHEETS
- 31-33 ENTRANCE AND SIDEROAD DETAILS
- 34 BUTT JOINT AND RAMP DETAILS
- 35 PRISMATIC REFLECTOR DETAILS (PLACED ON CURB)
- 36-37 SUPER ELEVATION TRANSITION DETAILS
- 38 TRAFFIC SIGNAL DETECTOR LOOP PLAN
- 39-40 TRAFFIC SIGNAL DETECTOR LOOP DETAILS
- 41 LEGEND OF TRAFFIC SIGNAL DETAILS

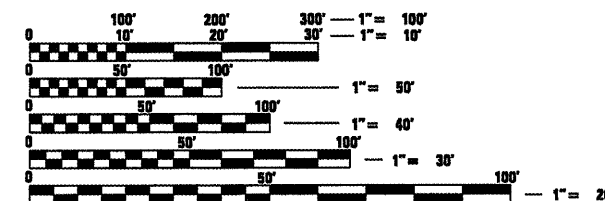
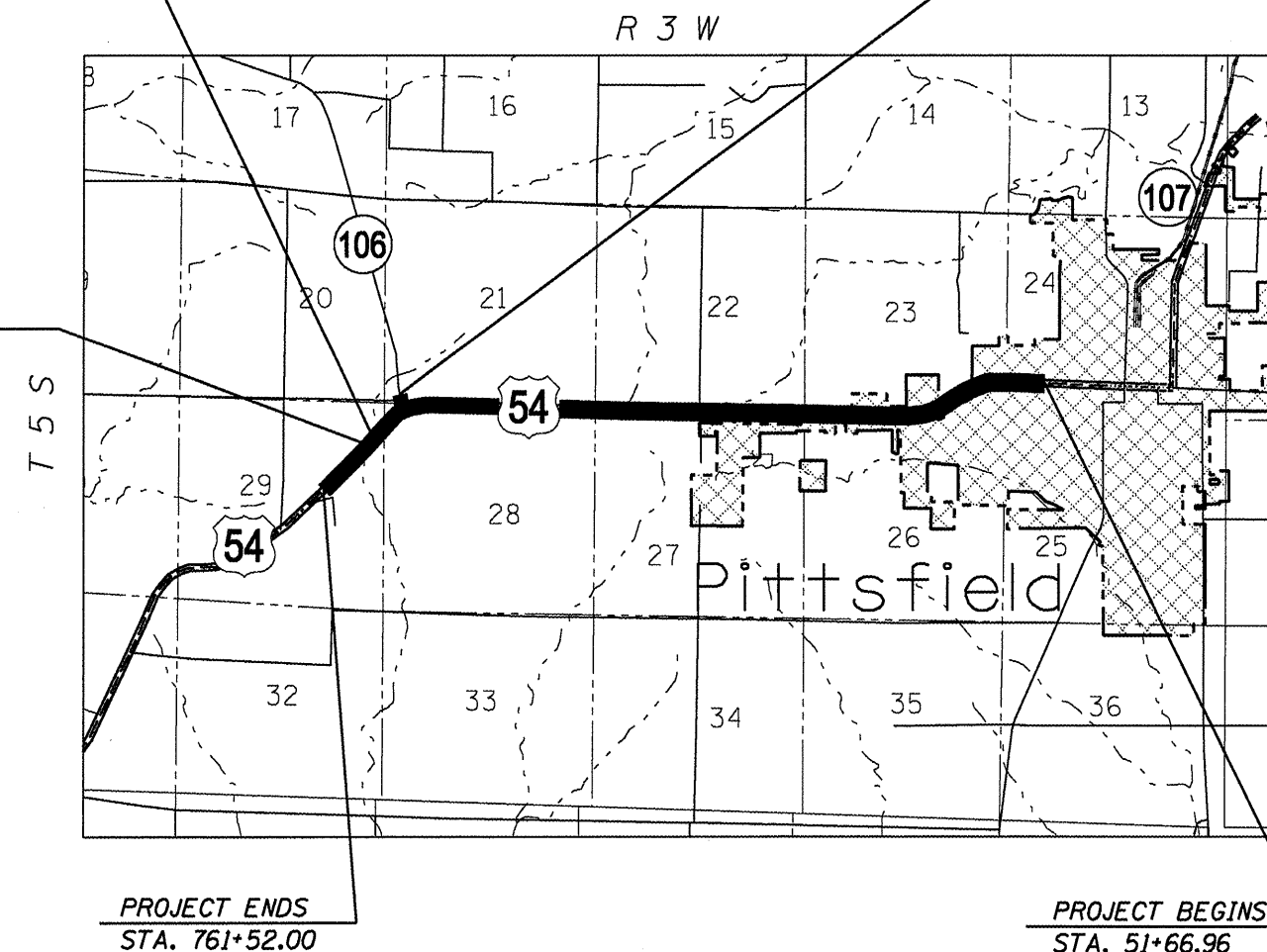
HIGHWAY STANDARDS

000001-05	701201-03
442201-03	701301-03
630001-08	701306-02
630301-05	701311-03
635006-03	701326-03
635011-02	701502-03
701001-02	701901-01
701006-03	780001-02
701011-02	781001-03
701701-06	

SN 075-2033 STA 805+33
 TRIPLE 10'X7' RC BOX CULVERT

STATION EQUATION
 STA 809+70.99 BK =
 STA 219+00.00 AH

IMPROVEMENT ENDS
 STA. 216+30.00



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: SAL MADONIA (217) 782-4761
 STUDIES AND PLANS TEAM MANAGER: TOM COX (217) 524-7940
 CONTRACT NO. 72C43

GROSS LENGTH = 21,552.03 FT. = 4.08 MILE
 NET LENGTH = 21,552.03 FT. = 4.08 MILE

ADT = 4,268 (2007)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 11 2010
Reg 2 Onk
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Still P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

GENERAL NOTES

- ① WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS, MONUMENTS, AND PERMANENT SURVEY MARKERS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSES OR OTHERWISE REFERENCED THEIR LOCATION.
- ② THE NOMINAL THICKNESS FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEM SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
- ③ THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATION OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- ④ ANY REFERENCE TO A STANDARD IN THE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THE PLANS.
- ⑤ THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE:

Location(s):	
Mixture Use(s):	Leveling Binder
PG:	PG 64-22
Design Air Voids:	4.0% @ N70
Mixture Composition:	IL 9.5
Friction Aggregate:	N/A

Location(s):	
Mixture Use(s):	Polymer HMA Surface
PG:	SBS PG70-22
Design Air Voids:	4.0% @ N70
Mixture Composition:	IL 9.5 or 12.5
Friction Aggregate:	Mix D

Location(s):	Incidental HMA Surfacing
Mixture Use(s):	& HMA Shoulders
PG:	PG 64-22
Design Air Voids:	4.0% @ N50
Mixture Composition:	IL 9.5 or 12.5
Friction Aggregate:	Mix C

Location(s):	
Mixture Use(s):	HMA Shoulders 8"
PG:	PG 58-22
Design Air Voids:	2.0% @ N30
Mixture Composition:	Other (BAM)
Friction Aggregate:	N/A

Location(s):	
Mixture Use(s):	Patching
PG:	PG 64-22
Design Air Voids:	4.0% @ N70
Mixture Composition:	IL 19.0
Friction Aggregate:	N/A

RATES OF APPLICATION TABLES

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES.

BITUMINOUS MATERIALS (PRIME COAT): 0.00038 TON / SQ YD
 AGGREGATE MATERIALS (PRIME COAT): 0.002 TON / SQ YD
 HOT-MIX ASPHALT SURFACE LEVELING BINDER (112 LBS): 0.056 TON / SQ YD • 1in
 HOT-MIX ASPHALT SURFACE MIX D (112 LBS): 0.056 TON / SQ YD • 1in
 AGGREGATE MATERIALS: 2.05 TON / CU YD

COMMITMENTS

(NONE)

DISTRICT SIX	
EXAMINED	March 5 20 10
	<i>Air Wells</i>
OPERATIONS ENGINEER	
EXAMINED	MARCH 4 20 10
	<i>Jimmy Felt</i>
PROGRAM IMPLEMENTATION ENGINEER	
EXAMINED	March 11 20 10
	<i>ARMU</i>
PROGRAM DEVELOPMENT ENGINEER	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

-----**GENERAL NOTE AND
INDEX OF SHEETS**-----

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DRAWN -	---	REVISED -	-----
CHECKED -	---	REVISED -	-----
DATE -	-----	REVISED -	-----

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

SECTION _____ COUNTY _____ TOTAL SHEETS _____ SHEET NO. _____
 32L 106RS-5, 18RS-U PIKE -41- 2
 CONTRACT NO. 72C43
 ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

				100% STATE
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	I000-2A
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	18	18
35800100	PREPARATION OF BASE	SQ YD	123	123
35800200	AGGREGATE BASE REPAIR	TON	19	19
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	22	22
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	47.1	47.1
40600300	AGGREGATE (PRIME COAT)	TON	247	247
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1,586	1,586
40600895	CONSTRUCTING TEST STRIP	EACH	1	1
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,216	1,216
40600990	TEMPORARY RAMP	SQ YD	311	311
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	7,742	7,742
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	133	133
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	42,378	42,378
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	38,186	38,186
44200164	PAVEMENT PATCHING, TYPE I, 14 INCH	SQ YD	50	50
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	100	100
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	SQ YD	100	100
44200174	PAVEMENT PATCHING, TYPE IV, 14 INCH	SQ YD	50	50
48101200	AGGREGATE SHOULDERS, TYPE B	TON	698	698
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1,174	1,174
48203100	HOT-MIX ASPHALT SHOULDERS	TON	247	247
* 63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARD RAIL	FOOT	850	850
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
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1

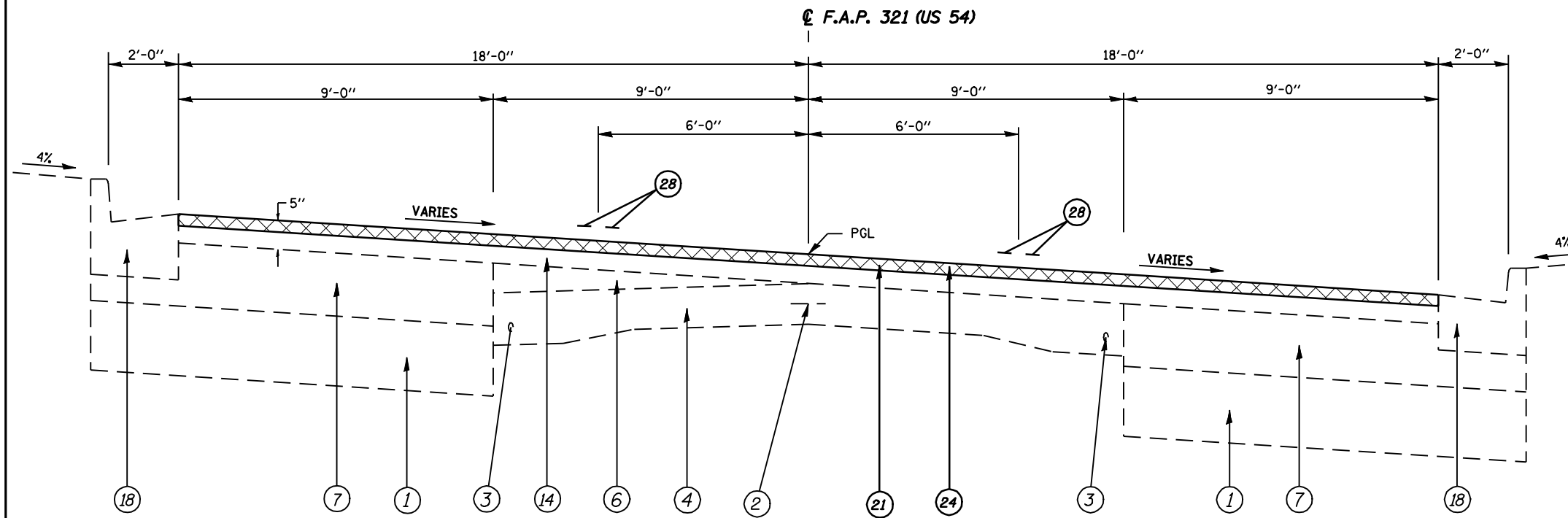
				100% STATE
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	I000-2A
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	8,081	8,081
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,201	1,201
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	65,653	65,653
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,035	1,035
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	452	452
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	611	611
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	135	135
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,116	1,116
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	33,589	33,589
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	452	452
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	611	611
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	32,065	32,065
* 78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOL	SQ FT	1,201	1,201
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	1,035	1,035
* 78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	135	135
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	696	696
78200300	PRISMATIC CURB REFLECTOR	EACH	24	24
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	696	696
* 88600100	DETECTOR LOOP, TYPE I	FOOT	775	775

* SPECIALTY ITEM

LEGEND

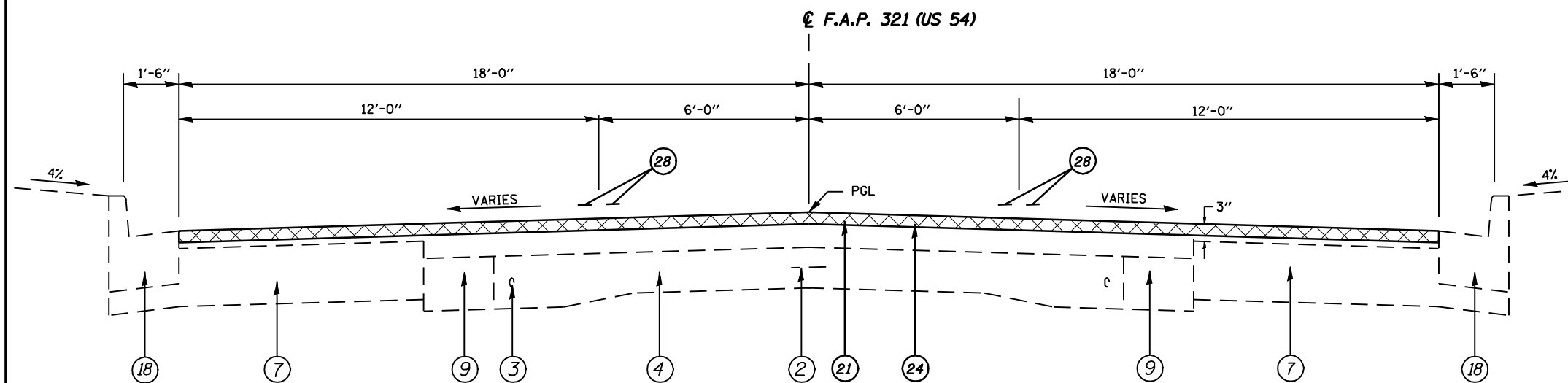
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- ⑦ EXIST. HOT-MIX ASPHALT BASE COURSE 10 3/4"
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- ⑨ EXIST. PCC BASE COURSE WIDENING 9"
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- ⑲ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑳ EXIST. CONCRETE GUTTER, TYPE A
- ㉑ PROP. HMA SURFACE REMOVAL 2"
- ㉒ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)*
- ㉓ PROP. LEVELING BINDER (MACHINE METHOD), N70 3/4"
- ㉔ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 2"
- ㉕ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
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- ㉛ PROP. HOT-MIX ASPHALT SHOULDERS (2")

*NOMINAL MILLING DEPTH 1/2"



TYPICAL SECTION #2

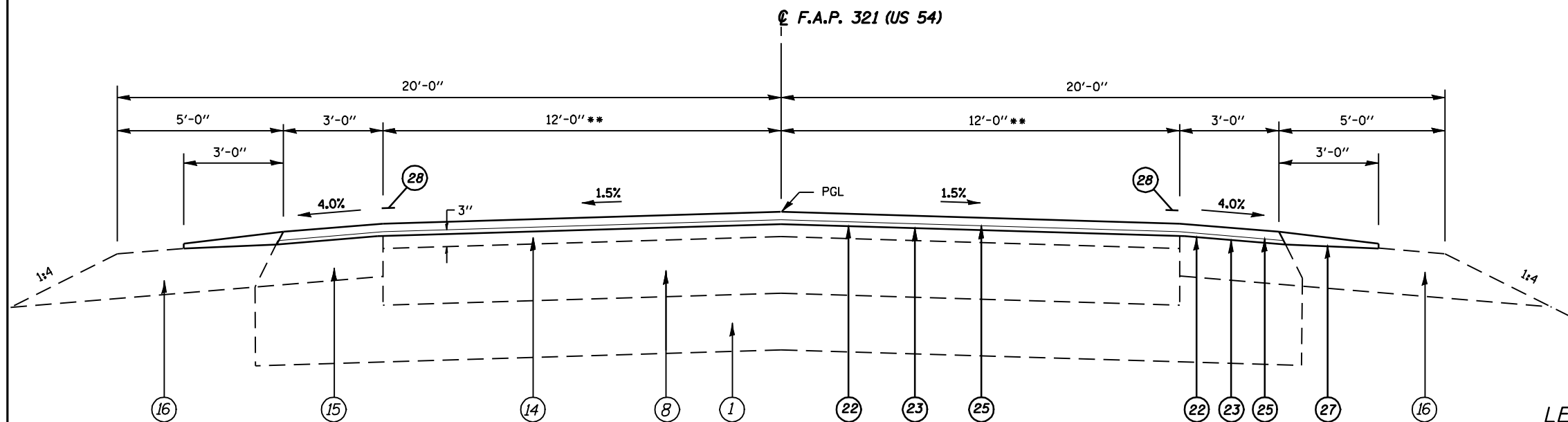
STA 56+13.54 TO STA 61+97.96
STA 69+75.66 TO STA 78+21.49



TYPICAL SECTION #1

STA 51+66.96 TO STA 56+13.54
STA 61+97.96 TO STA 69+75.66

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE. 321	SECTION 106RS-5, 18RS-11	COUNTY PIKE	TOTAL SHEETS 41	SHEET NO. 4
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		CHECKED -	REVISED -									
		DATE -	REVISED -									



THE HMA SHOULDERS SHALL BE PAVED MONOLITHIALLY WITH THE HMA SURFACE COURSE WHERE HMA SURFACE COURSE IS SPECIFIED ON THE SHOULDERS

** PAVEMENT WIDTH VARIES
11'-0" TO 12'-0"
STATION 200+75.00 TO STA 202+25.00

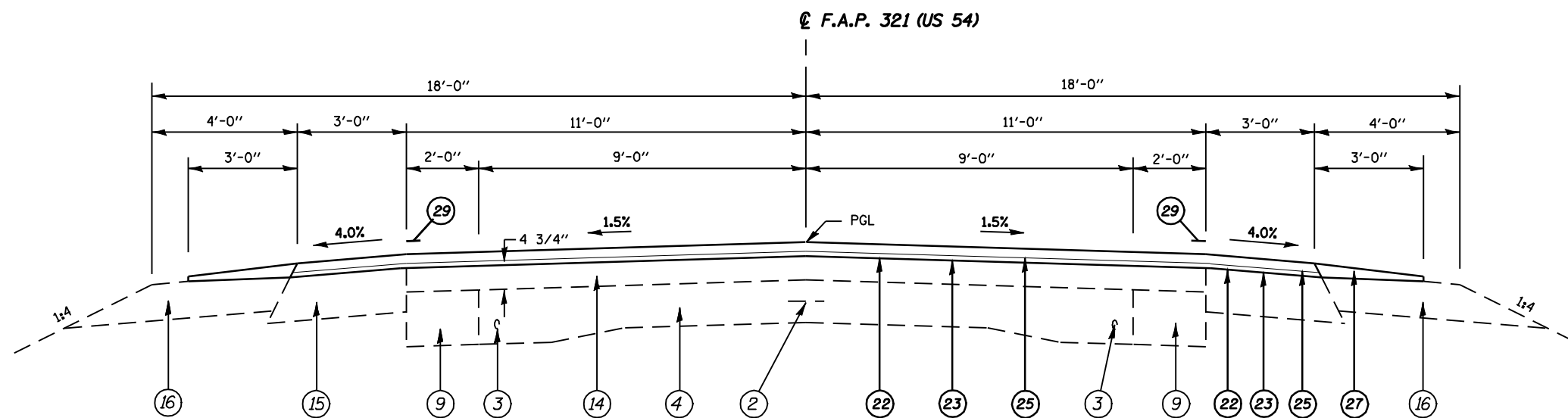
TYPICAL SECTION #6

STA 200+75.00 TO STA 202+25.00
STA 217+23.97 TO STA 219+00.00

IL 106 STA 15+94.97 TO STA 17+58.09
IL 106 STA 215+53.38 TO STA 216+00.00

LEGEND

- ① EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A (CA 6) 12"
- ② EXIST. LONGITUDINAL METAL JOINT W/ 1/2" DEFORMED BAR
- ③ EXIST. 3/4" SMOOTH BAR
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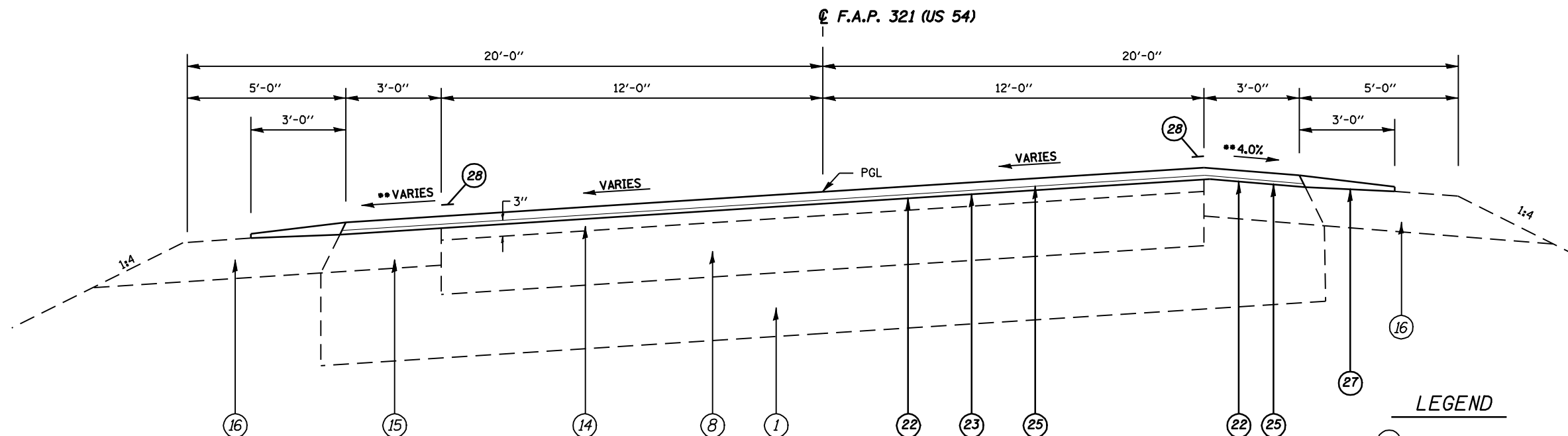


TYPICAL SECTION #5

STA 139+50.00 TO STA 200+75.00

*NOMINAL MILLING DEPTH 1/2"

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE. 321	SECTION 106RS-5, 18RS-11	COUNTY PIKE	TOTAL SHEETS 41	SHEET NO. 6
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	PLOT DATE = Mar-11-2010 09:50:27AM	DATE -	REVISED -									



TYPICAL SECTION #7
 STA 202+25.00 TO STA 204+77.41

IL 106 STA 12+03.81 TO STA 14+35.00

LEGEND

- ① EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A (CA 6) 12"
- ② EXIST. LONGITUDINAL METAL JOINT W/ 1/2" DEFORMED BAR
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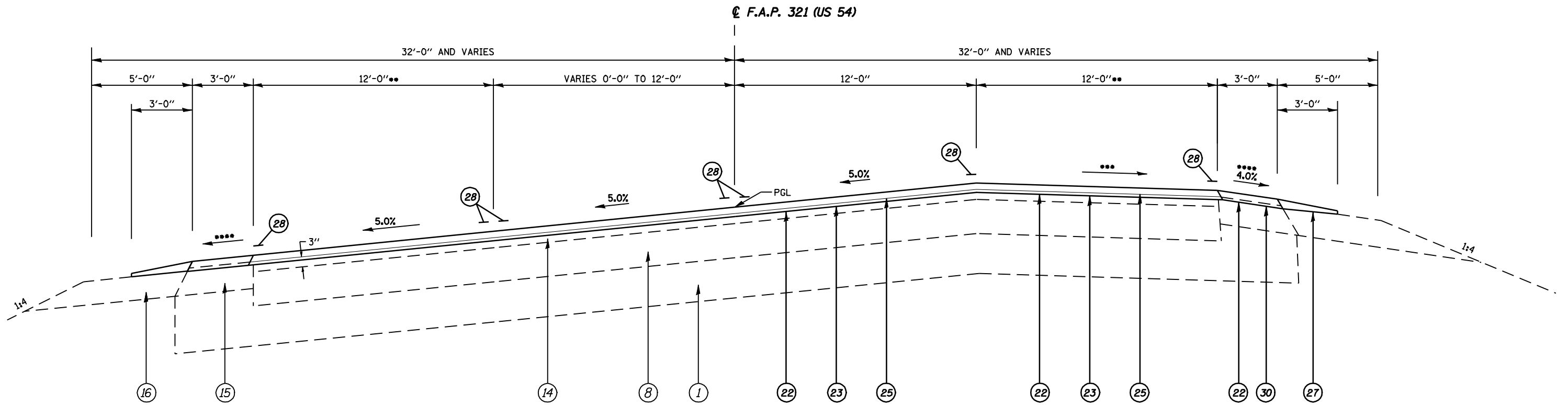
**** PAVED SHOULDER SLOPE**

ON THE HIGH SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER SO THAT THE ALGEBRETIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDERS ARE NOT GREATER THAN 8%.

ON THE LOW SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER 4% UNLESS THE SUPER ELEVATED SECTION IS GREATER THAN 4% THEN MATCH SUPERELEVATED SLOPE

*NOMINAL MILLING DEPTH 1/2"

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwwork\pwwid01\COXTE\dmab2291\072C43	ahht:typsec.dgn	DRAWN -	REVISED -		321	106RS-5, 18RS-11	PIKE	41	7			
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		SCALE: NTS			SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 72C43		
	PLOT DATE = Mar-11-2010 09:50:29AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



TYPICAL SECTION #8
STA 204+77.41 TO STA 209+62.39

•• TRANSITION FR. 0' TO 12' FR. STA. 204+77.41 TO STA. 206+87.41 (210') (RT OF C)

TRANSITION FR. 0' TO 12' FR. STA. 204+83.14 TO 209+63.14 (480') (LT OF C)

*** TRANSITION FROM 5.0% SE RATE AT STA 207+22.38 TO 1.5% AT STA 206+62.38

LEGEND

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- ④ EXIST. P.C.C. PAVEMENT 9"-7"-9"
- ⑤ EXIST. P.C.C. PAVEMENT 9"-6"-9"
- ⑥ EXIST. HOT-MIX ASPHALT CONCRETE BINDER COURSE, TYPE 2
- ⑦ EXIST. HOT-MIX ASPHALT BASE COURSE 10 3/4"
- ⑧ EXIST. HOT-MIX ASPHALT BASE COURSE 10 1/4"
- ⑨ EXIST. PCC BASE COURSE WIDENING 9"
- ⑩ EXIST. HOT-MIX ASPHALT BASE COURSE 10"
- ⑪ EXIST. CONCRETE WIDENING 8"
- ⑫ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- ⑬ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 10"
- ⑭ EXIST. HOT-MIX ASPHALT OVERLAY
- ⑮ EXIST. HOT-MIX ASPHALT SHOULDERS 8"

- ⑯ EXIST. AGGREGATE SHOULDERS, TYPE A
- ⑰ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑱ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑲ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑳ EXIST. CONCRETE GUTTER, TYPE A
- ㉑ PROP. HMA SURFACE REMOVAL 2"
- ㉒ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)*
- ㉓ PROP. LEVELING BINDER (MACHINE METHOD), N70 3/4"
- ㉔ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 2"
- ㉕ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ㉖ PROP. HOT-MIX ASPHALT SHOULDERS 8"
- ㉗ PROP. AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ㉘ PROP. THERMOPLASTIC PAVEMENT MARKING - LINE 5"
- ㉙ PROP. PAINT PAVEMENT MARKING - LINE 5"
- ㉚ PROP. HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ㉛ PROP. HOT-MIX ASPHALT SHOULDERS (2")

*NOMINAL MILLING DEPTH 1/2"

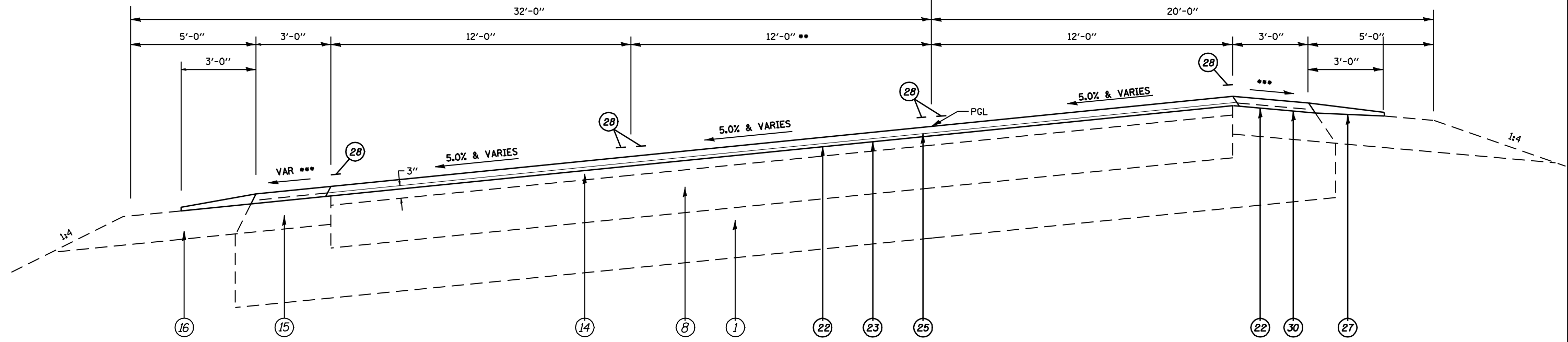
****** PAVED SHOULDER SLOPE**

ON THE HIGH SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER SO THAT THE ALGEBRETIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDERS ARE NOT GREATER THAN 8%

ON THE LOW SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER 4% UNLESS THE SUPER ELEVATED SECTION IS GREATER THAN 4% THEN MATCH SUPERELEVATED SLOPE

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE. 321	SECTION 106RS-5, 18RS-11	COUNTY PIKE	TOTAL SHEETS 41	SHEET NO. 8
es:\pwork\pwork\IDOT\COXTE\dms62291\072C43	raht-tyeoc.dgn	DRAWN -	REVISED -		SCALE: NTS	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 72C43		
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
	PLOT DATE = Mar-11-2010 09:50:31AM	DATE -	REVISED -									

☉ F.A.P. 321 (US 54)



TYPICAL SECTION #9
 STA 209+62.39 TO STA 217+23.97

LEGEND

- ① EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A (CA 6) 12"
- ② EXIST. LONGITUDINAL METAL JOINT W/ 1/2" DEFORMED BAR
- ③ EXIST. 3/4" SMOOTH BAR
- ④ EXIST. P.C.C. PAVEMENT 9"-7"-9"
- ⑤ EXIST. P.C.C. PAVEMENT 9"-6"-9"
- ⑥ EXIST. HOT-MIX ASPHALT CONCRETE BINDER COURSE, TYPE 2
- ⑦ EXIST. HOT-MIX ASPHALT BASE COURSE 10 3/4"
- ⑧ EXIST. HOT-MIX ASPHALT BASE COURSE 10 1/4"
- ⑨ EXIST. PCC BASE COURSE WIDENING 9"
- ⑩ EXIST. HOT-MIX ASPHALT BASE COURSE 10"
- ⑪ EXIST. CONCRETE WIDENING 8"
- ⑫ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- ⑬ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 10"
- ⑭ EXIST. HOT-MIX ASPHALT OVERLAY
- ⑮ EXIST. HOT-MIX ASPHALT SHOULDERS 8"

- ⑯ EXIST. AGGREGATE SHOULDERS, TYPE A
- ⑰ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑱ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑲ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑳ EXIST. CONCRETE GUTTER, TYPE A
- ㉑ PROP. HMA SURFACE REMOVAL 2"
- ㉒ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)*
- ㉓ PROP. LEVELING BINDER (MACHINE METHOD), N70 3/4"
- ㉔ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 2"
- ㉕ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ㉖ PROP. HOT-MIX ASPHALT SHOULDERS 8"
- ㉗ PROP. AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ㉘ PROP. THERMOPLASTIC PAVEMENT MARKING - LINE 5"
- ㉙ PROP. PAINT PAVEMENT MARKING - LINE 5"
- ㉚ PROP. HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ㉛ PROP. HOT-MIX ASPHALT SHOULDERS (2")

** TRANSITION FR. 12' TO 0' FR. STA. 213+88.00 TO STA. 218+68.00

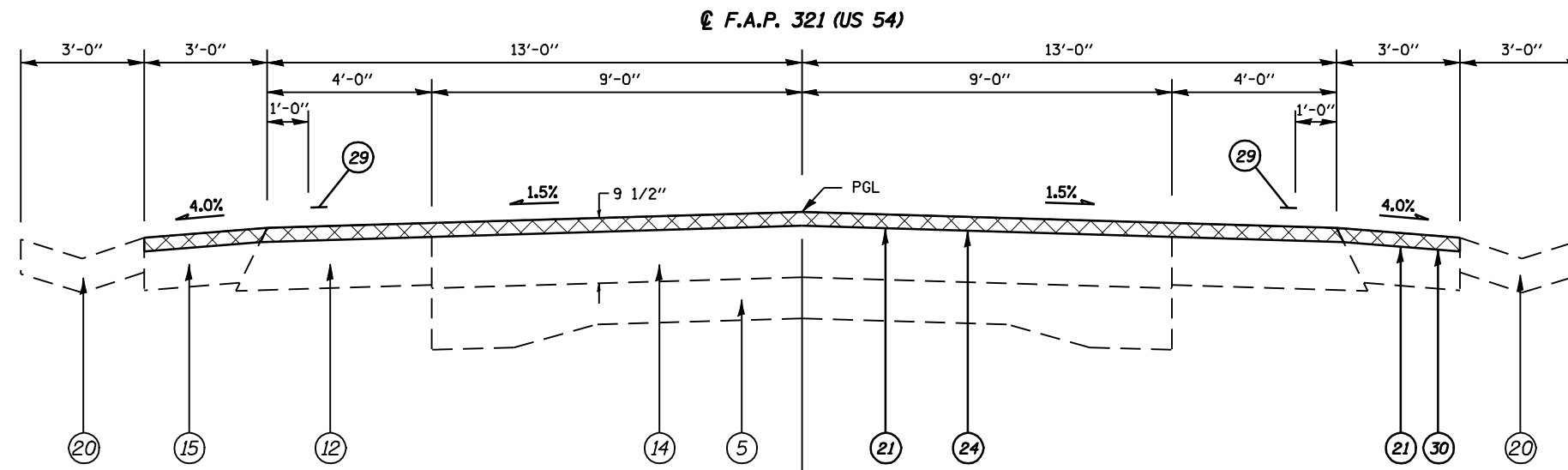
*** PAVED SHOULDER SLOPE
 ON THE HIGH SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER SO THAT THE ALGEBRETIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDERS ARE NOT GREATER THAN 8%
 ON THE LOW SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER 4% UNLESS THE SUPER ELEVATED SECTION IS GREATER THAN 4% THEN MATCH SUPERELEVATED SLOPE

*NOMINAL MILLING DEPTH 1/2"

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS				F.A.P. RTE. 321	SECTION 106RS-5, 18RS-11	COUNTY PIKE	TOTAL SHEETS 41	SHEET NO. 9
es:\pwork\pwork\PWIDOT\COXTE\dms62291\072C43	saht:typsec.dgn	DRAWN -	REVISED -		SCALE: NTS	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 72C43			
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = Mar-11-2010 09:50:33AM	DATE -	REVISED -										

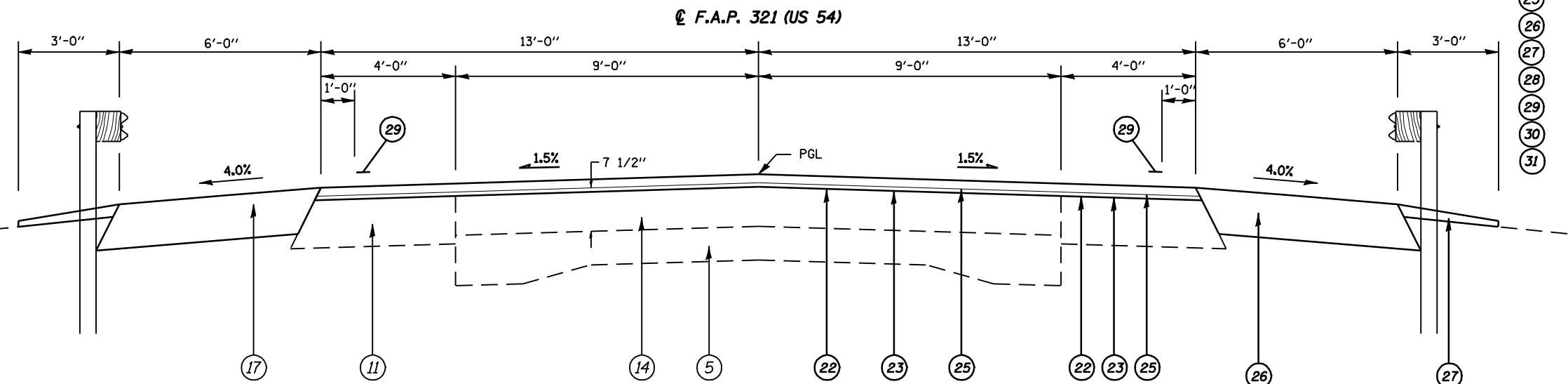
LEGEND

- ① EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A (CA 6) 12"
- ② EXIST. LONGITUDINAL METAL JOINT W/ 1/2" DEFORMED BAR
- ③ EXIST. 3/4" SMOOTH BAR
- ④ EXIST. P.C.C. PAVEMENT 9"-7"-9"
- ⑤ EXIST. P.C.C. PAVEMENT 9"-6"-9"
- ⑥ EXIST. HOT-MIX ASPHALT CONCRETE BINDER COURSE, TYPE 2
- ⑦ EXIST. HOT-MIX ASPHALT BASE COURSE 10 3/4"
- ⑧ EXIST. HOT-MIX ASPHALT BASE COURSE 10 1/4"
- ⑨ EXIST. PCC BASE COURSE WIDENING 9"
- ⑩ EXIST. HOT-MIX ASPHALT BASE COURSE 10"
- ⑪ EXIST. CONCRETE WIDENING 8"
- ⑫ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- ⑬ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 10"
- ⑭ EXIST. HOT-MIX ASPHALT OVERLAY
- ⑮ EXIST. HOT-MIX ASPHALT SHOULDERS 8"
- ⑯ EXIST. AGGREGATE SHOULDERS, TYPE A
- ⑰ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑱ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑲ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑳ EXIST. CONCRETE GUTTER, TYPE A
- ㉑ PROP. HMA SURFACE REMOVAL 2"
- ㉒ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)*
- ㉓ PROP. LEVELING BINDER (MACHINE METHOD), N70 3/4"
- ㉔ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 2"
- ㉕ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ㉖ PROP. HOT-MIX ASPHALT SHOULDERS 8"
- ㉗ PROP. AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ㉘ PROP. THERMOPLASTIC PAVEMENT MARKING - LINE 5"
- ㉙ PROP. PAINT PAVEMENT MARKING - LINE 5"
- ㉚ PROP. HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ㉛ PROP. HOT-MIX ASPHALT SHOULDERS (2")



TYPICAL SECTION #11

STA 801+00.00 TO STA 796+53.00
 STA 790+75.00 TO STA 781+36.73



TYPICAL SECTION #10

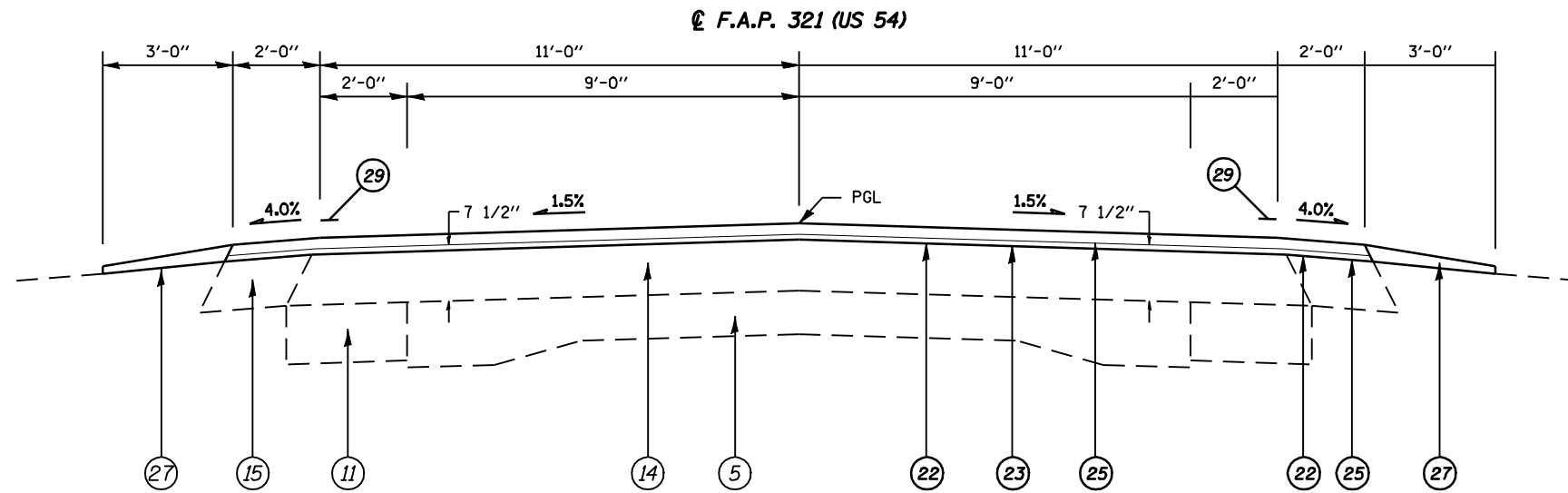
STA 809+70.99 TO STA 801+00.00

*NOMINAL MILLING DEPTH 1/2"

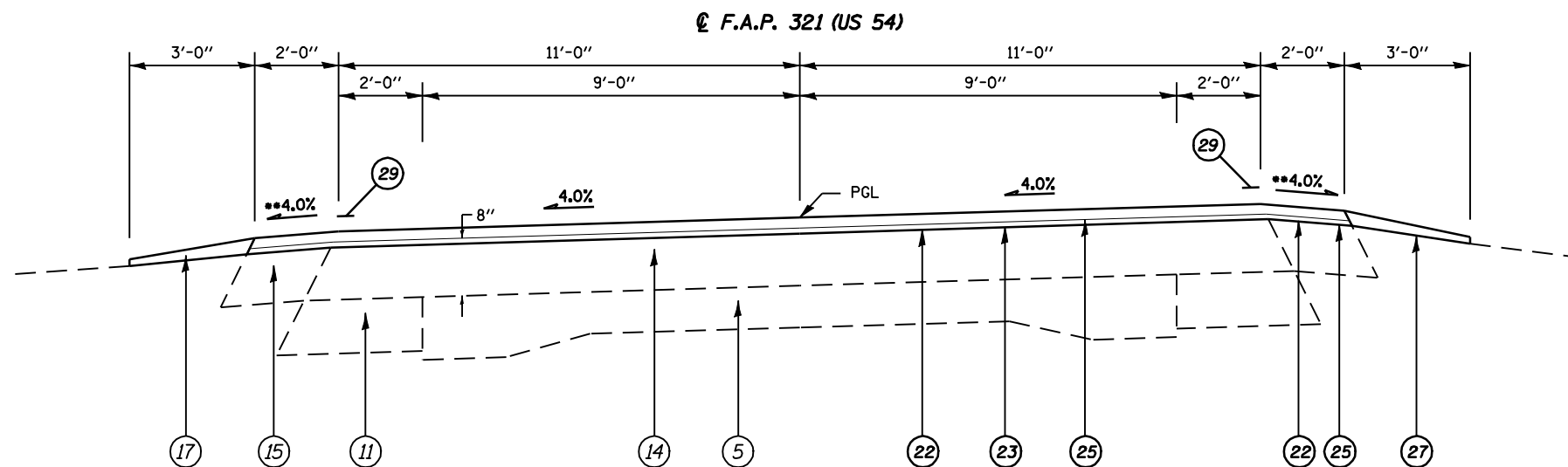
THE HMA SHOULDERS SHALL BE PAVED MONOLITHIALLY WITH THE HMA SURFACE COURSE WHERE HMA SURFACE COURSE IS SPECIFIED ON THE SHOULDERS

STA EQUATION
 STA. 219+00.00 (BK)
 STA. 809+70.99 (AH)

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\pwork\IDOT\COXTE\dms62291\072C43	caht-type.dgn	DRAWN -	REVISED -		321	106RS-5, 18RS-11	PIKE	41	10	CONTRACT NO. 72C43		
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		SCALE: NTS	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = Mar-11-2010 09:50:36AM	DATE -	REVISED -									



TYPICAL SECTION #13
 STA 767+68.77 TO STA 761+82.00



TYPICAL SECTION #12
 STA 781+36.73 TO STA 767+68.77

LEGEND

- ① EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A (CA 6) 12"
- ② EXIST. LONGITUDINAL METAL JOINT W/ 1/2" DEFORMED BAR
- ③ EXIST. 3/4" SMOOTH BAR
- ④ EXIST. P.C.C. PAVEMENT 9"-7"-9"
- ⑤ EXIST. P.C.C. PAVEMENT 9"-6"-9"
- ⑥ EXIST. HOT-MIX ASPHALT CONCRETE BINDER COURSE, TYPE 2
- ⑦ EXIST. HOT-MIX ASPHALT BASE COURSE 10 3/4"
- ⑧ EXIST. HOT-MIX ASPHALT BASE COURSE 10 1/4"
- ⑨ EXIST. PCC BASE COURSE WIDENING 9"
- ⑩ EXIST. HOT-MIX ASPHALT BASE COURSE 10"
- ⑪ EXIST. CONCRETE WIDENING 8"
- ⑫ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- ⑬ EXIST. HOT-MIX ASPHALT BASE COURSE WIDENING 10"
- ⑭ EXIST. HOT-MIX ASPHALT OVERLAY
- ⑮ EXIST. HOT-MIX ASPHALT SHOULDERS 8"
- ⑯ EXIST. AGGREGATE SHOULDERS, TYPE A
- ⑰ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑱ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑲ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑳ EXIST. CONCRETE GUTTER, TYPE A
- ㉑ PROP. HMA SURFACE REMOVAL 2"
- ㉒ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)*
- ㉓ PROP. LEVELING BINDER (MACHINE METHOD), N70 3/4"
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- ㉕ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ㉖ PROP. HOT-MIX ASPHALT SHOULDERS 8"
- ㉗ PROP. AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ㉘ PROP. THERMOPLASTIC PAVEMENT MARKING - LINE 5"
- ㉙ PROP. PAINT PAVEMENT MARKING - LINE 5"
- ㉚ PROP. HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ㉛ PROP. HOT-MIX ASPHALT SHOULDERS (2")

*NOMINAL MILLING DEPTH 1/2"

**** PAVED SHOULDER SLOPE**

ON THE HIGH SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER SO THAT THE ALGEBRETIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDERS ARE NOT GREATER THAN 8%.

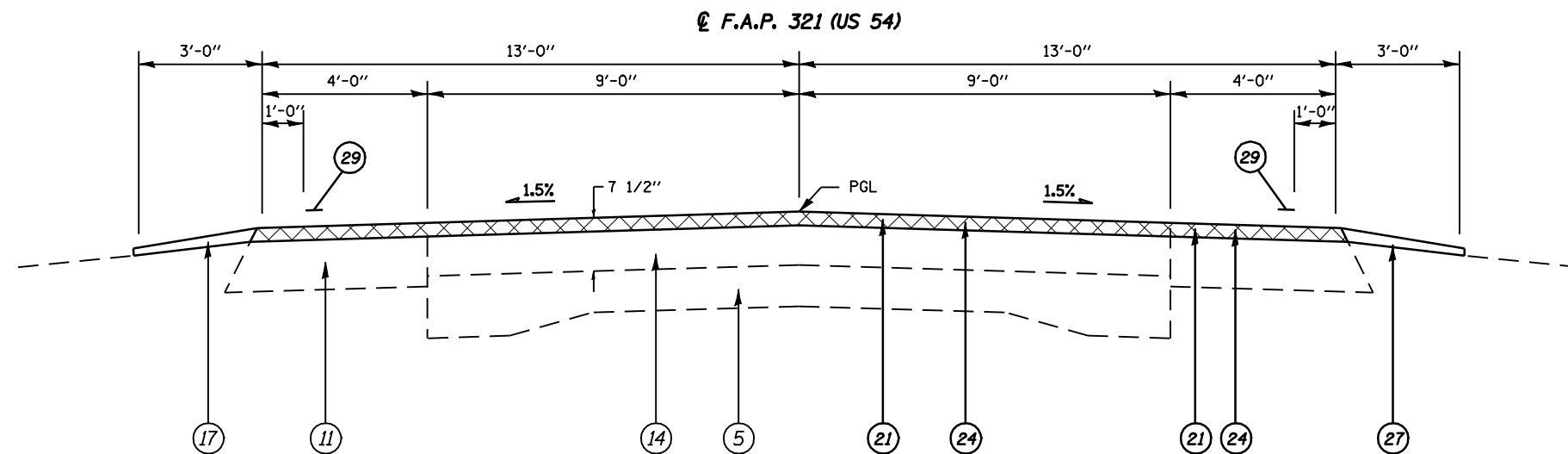
ON THE LOW SIDE OF SUPERELEVATED CURVES, SLOPE THE SHOULDER 4% UNLESS THE SUPER ELEVATED SECTION IS GREATER THAN 4% THEN MATCH SUPERELEVATED SLOPE

THE HMA SHOULDERS SHALL BE PAVED MONOLITHIALLY WITH THE HMA SURFACE COURSE WHERE HMA SURFACE COURSE IS SPECIFIED ON THE SHOULDERS

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
es:\pwork\PWIDOT\COXTE\dms62291\072C43	caht-typrac.dgn	DRAWN -	REVISED -		321	106RS-5, 18RS-11	PIKE	41	11			
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 72C43			ILLINOIS FED. AID PROJECT				
PLOT DATE = Mar-11-2010 09:50:38AM	DATE -	REVISED -	REVISED -		SCALE: NTS	SHEET NO. OF SHEETS	STA. TO STA.					

LEGEND

- ① EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A (CA 6) 12"
- ② EXIST. LONGITUDINAL METAL JOINT W/ 1/2" DEFORMED BAR
- ③ EXIST. 3/4" SMOOTH BAR
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- ⑭ EXIST. HOT-MIX ASPHALT OVERLAY
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- ⑯ EXIST. AGGREGATE SHOULDERS, TYPE A
- ⑰ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑱ EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
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- ㉑ PROP. HMA SURFACE REMOVAL 2"
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- ㉕ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ㉖ PROP. HOT-MIX ASPHALT SHOULDERS 8"
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- ㉘ PROP. THERMOPLASTIC PAVEMENT MARKING - LINE 5"
- ㉙ PROP. PAINT PAVEMENT MARKING - LINE 5"
- ㉚ PROP. HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ㉛ PROP. HOT-MIX ASPHALT SHOULDERS (2")



*NOMINAL MILLING DEPTH 1/2"

TYPICAL SECTION #14
 STA 796+53.00 TO STA 790+75.00

THE HMA SHOULDERS SHALL BE PAVED MONOLITHIALLY WITH THE HMA SURFACE COURSE WHERE HMA SURFACE COURSE IS SPECIFIED ON THE SHOULDERS

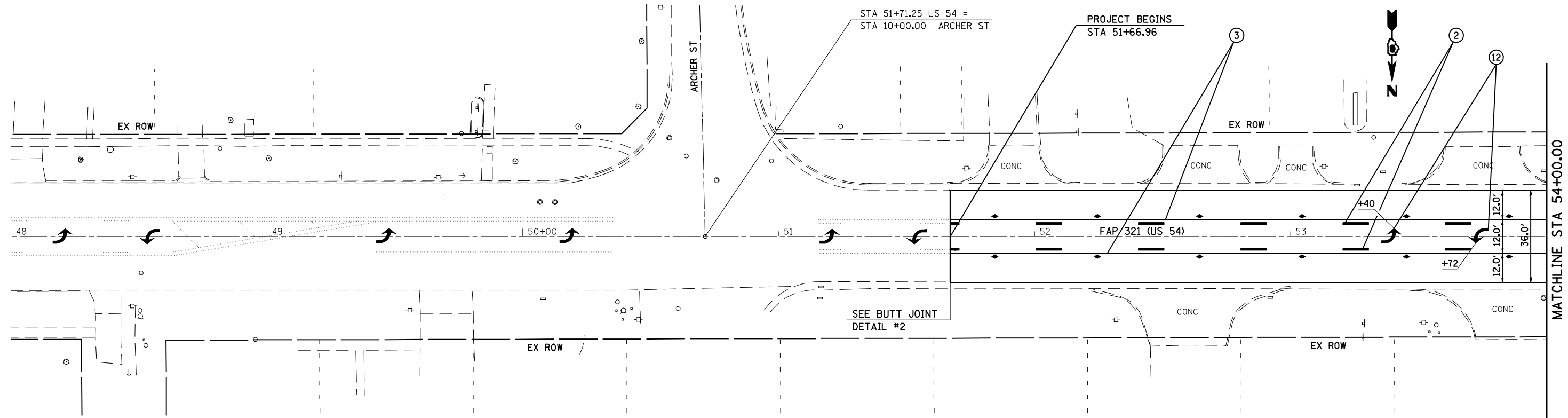
STA EQUATION
 STA. 219+00.00 (BK)
 STA. 809+70.99 (AH)

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwwork\pwwid01\COXTE\dms62291\072C43	ahh-typsec.dgn	DRAWN -	REVISED -		321	106RS-5, 18RS-11	PIKE	41	12			
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		SCALE: NTS			SHEET NO. OF SHEETS		STA. TO STA.		
	PLOT DATE = Mar-11-2010 09:50:40AM	DATE -	REVISED -		CONTRACT NO. 72C43 ILLINOIS FED. AID PROJECT							

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS				PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS			
LOCATION	COLOR	DIRECTION	QUANTITY (SQ FT)	LOCATION	COLOR	DIRECTION	QUANTITY (SQ FT)
TURN ARROWS US 54				CONTINUED			
STA 53+40	YELLOW	LEFT	15.6	STA 100+30	WHITE	LEFT	15.6
STA 53+72	YELLOW	LEFT	15.6	STA 101+31	YELLOW	LEFT	15.6
STA 55+60	YELLOW	LEFT	15.6	STA 101+63	YELLOW	LEFT	15.6
STA 55+92	YELLOW	LEFT	15.6	STA 103+81	YELLOW	LEFT	15.6
STA 57+90	YELLOW	LEFT	15.6	STA 104+13	YELLOW	LEFT	15.6
STA 58+22	YELLOW	LEFT	15.6	STA 106+31	YELLOW	LEFT	15.6
STA 60+65	WHITE	LEFT	15.6	STA 106+63	YELLOW	LEFT	15.6
STA 61+52	WHITE	LEFT	15.6	STA 108+81	YELLOW	LEFT	15.6
STA 63+58	YELLOW	LEFT	15.6	STA 109+13	YELLOW	LEFT	15.6
STA 63+90	YELLOW	LEFT	15.6	STA 111+31	YELLOW	LEFT	15.6
STA 66+06	YELLOW	LEFT	15.6	STA 111+63	YELLOW	LEFT	15.6
STA 66+38	YELLOW	LEFT	15.6	STA 113+81	YELLOW	LEFT	15.6
STA 67+09	YELLOW	LEFT	15.6	STA 114+13	YELLOW	LEFT	15.6
STA 67+61	WHITE	LEFT	15.6	STA 116+31	YELLOW	LEFT	15.6
STA 68+36	WHITE	LEFT	15.6	STA 116+63	YELLOW	LEFT	15.6
STA 70+33	YELLOW	LEFT	15.6	STA 118+81	YELLOW	LEFT	15.6
STA 70+65	YELLOW	LEFT	15.6	STA 119+13	YELLOW	LEFT	15.6
STA 72+19	YELLOW	LEFT	15.6	STA 121+31	YELLOW	LEFT	15.6
STA 72+51	YELLOW	LEFT	15.6	STA 121+63	YELLOW	LEFT	15.6
STA 74+04	WHITE	LEFT	15.6	STA 123+81	YELLOW	LEFT	15.6
STA 74+79	WHITE	LEFT	15.6	STA 124+13	YELLOW	LEFT	15.6
STA 76+28	YELLOW	LEFT	15.6	STA 126+31	YELLOW	LEFT	15.6
STA 76+60	YELLOW	LEFT	15.6	STA 126+63	YELLOW	LEFT	15.6
STA 79+25	YELLOW	LEFT	15.6	STA 128+81	YELLOW	LEFT	15.6
STA 79+57	YELLOW	LEFT	15.6	STA 129+13	YELLOW	LEFT	15.6
STA 81+85	YELLOW	LEFT	15.6	STA 131+31	YELLOW	LEFT	15.6
STA 82+17	YELLOW	LEFT	15.6	STA 131+63	YELLOW	LEFT	15.6
STA 84+45	YELLOW	LEFT	15.6	STA 132+42	WHITE	LEFT	15.6
STA 84+77	YELLOW	LEFT	15.6	STA 133+18	WHITE	LEFT	15.6
STA 87+05	YELLOW	LEFT	15.6	STA 134+67	WHITE	LEFT	15.6
STA 87+37	YELLOW	LEFT	15.6	STA 135+12	WHITE	LEFT	15.6
STA 89+65	YELLOW	LEFT	15.6	STA 206+87	WHITE	RIGHT	15.6
STA 89+97	YELLOW	LEFT	15.6	STA 207+79	WHITE	RIGHT	15.6
STA 92+25	YELLOW	LEFT	15.6	STA 208+71	WHITE	RIGHT	15.6
STA 92+57	YELLOW	LEFT	15.6	STA 209+63	WHITE	RIGHT	15.6
STA 94+85	YELLOW	LEFT	15.6	STA 211+38	WHITE	LEFT	15.6
STA 95+17	YELLOW	LEFT	15.6	STA 212+08	WHITE	LEFT	15.6
STA 97+78	YELLOW	LEFT	15.6				
STA 98+10	YELLOW	LEFT	15.6				
STA 99+60	WHITE	LEFT	15.6				
				TOTAL			1,201

LOCATION	RAISED REFLECTIVE PAVEMENT MARKER			RAISED REFLECTIVE PAVE MARK REMOVAL EACH
	2-WAY AMBER EACH	1-WAY AMBER EACH	1-WAY CRYSTAL EACH	
US 54				
STA 51+66.96 TO STA 60+11.65	36	6	0	42
STA 60+11.65 TO STA 69+11.40	43	1	8	52
STA 69+11.40 TO STA 75+56.70	27	2	4	33
STA 75+56.70 TO STA 98+90.28	112	0	0	112
STA 98+90.28 TO STA 133+91.52	170	6	8	184
STA 133+91.52 TO STA 140+00.00	4	22	3	29
STA 140+00.00 TO STA 170+00.00	39	0	0	39
STA 170+00.00 TO STA 204+83.11	45	0	0	45
STA 204+83.11 TO STA 210+64.36	2	27	10	39
STA 210+64.36 TO STA 219+00.00	12	28	6	46
STA EQN: 219+00.00 (BK) = STA 809+70.99 (AH) Note Stationing is reversed.				
STA 809+70.99 TO STA 785+20.00	32	0	0	32
STA 785+20.00 TO STA 761+52.00	31	0	0	31
IL 106				
STA 10+59.00 TO STA 17+58.09	10	0	0	10
STA EQN: 17+58.09 (BK) = STA 215+53.38 (AH)				
STA 215+53.38 TO STA 216+30.00	2	0	0	2
COLUMN TOTAL	565	92	39	696
TOTAL		696		696

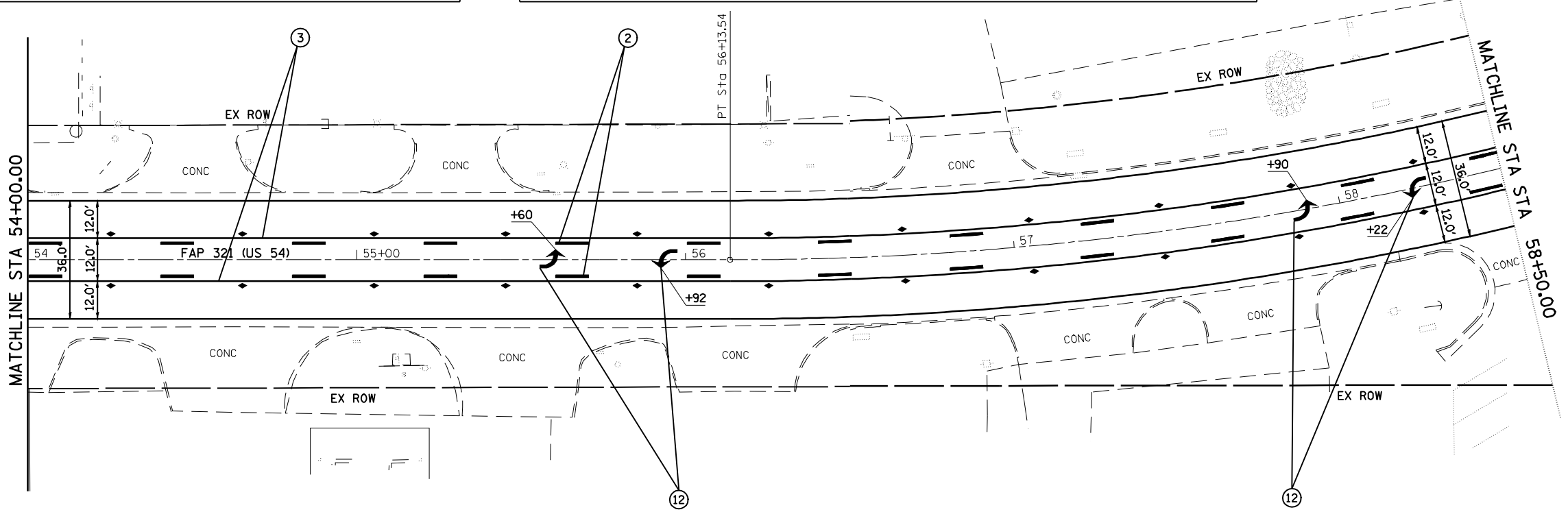
PRISMATIC CURB REFLECTOR	
LOCATION	EACH
US 54 IL 106 NE QUAD ISLAND	12
US 54 IL 106 SW QUAD ISLAND	12
TOTALS	24



PAVEMENT MARKING LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (YELLOW SKIP DASH)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID YELLOW LINE)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW)
⑤	PREF PLASTIC PAVE MARK, TY B - INLAID - LN 6" (2'x6'x6") (WHITE SKIP DASH)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE LINE)

PAVEMENT MARKING LEGEND	
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE LINE)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW LINE)
⑨	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (SOLID WHITE LINE)
⑩	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12" (SOLID WHITE LINE)
⑪	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24" (WHITE STOP BARS)
⑫	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS (ARROWS)

RAISED REFLECTIVE PAVEMENT MARKER	
-	ONE-WAY AMBER MARKER
-	ONE-WAY CRYSTAL MARKER
-	TWO-WAY MARKER



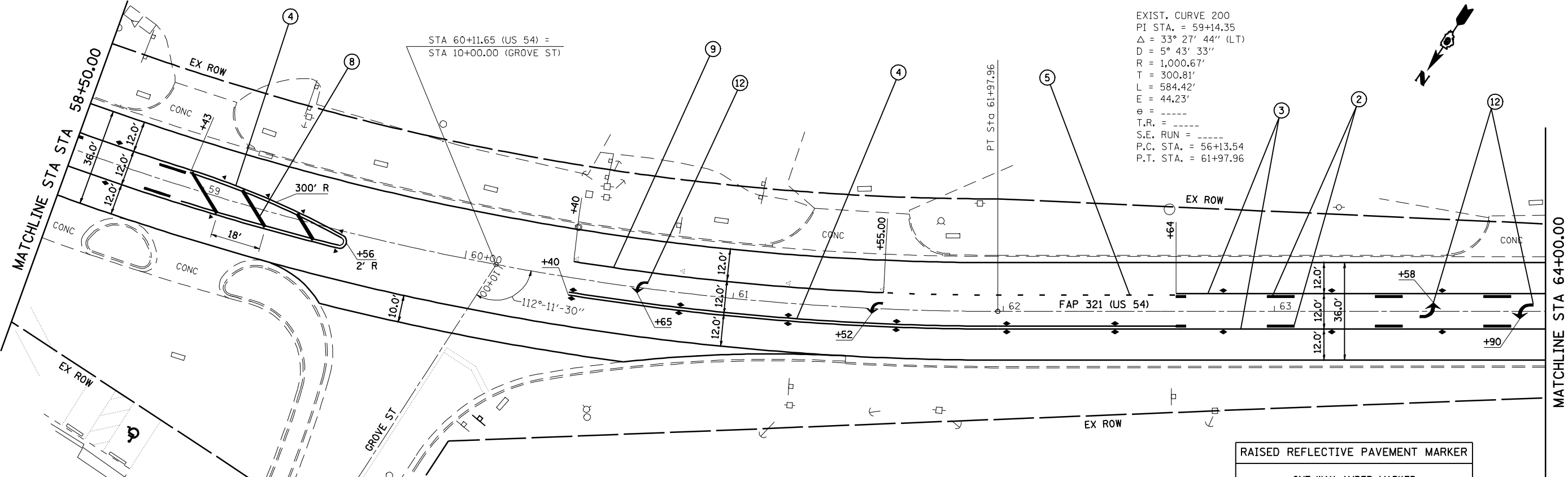
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 321 (US 54) PLAN SHEET
20 SCALE**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA. 58+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	18
CONTRACT NO. 72C43				
ILLINOIS FED. AID PROJECT				

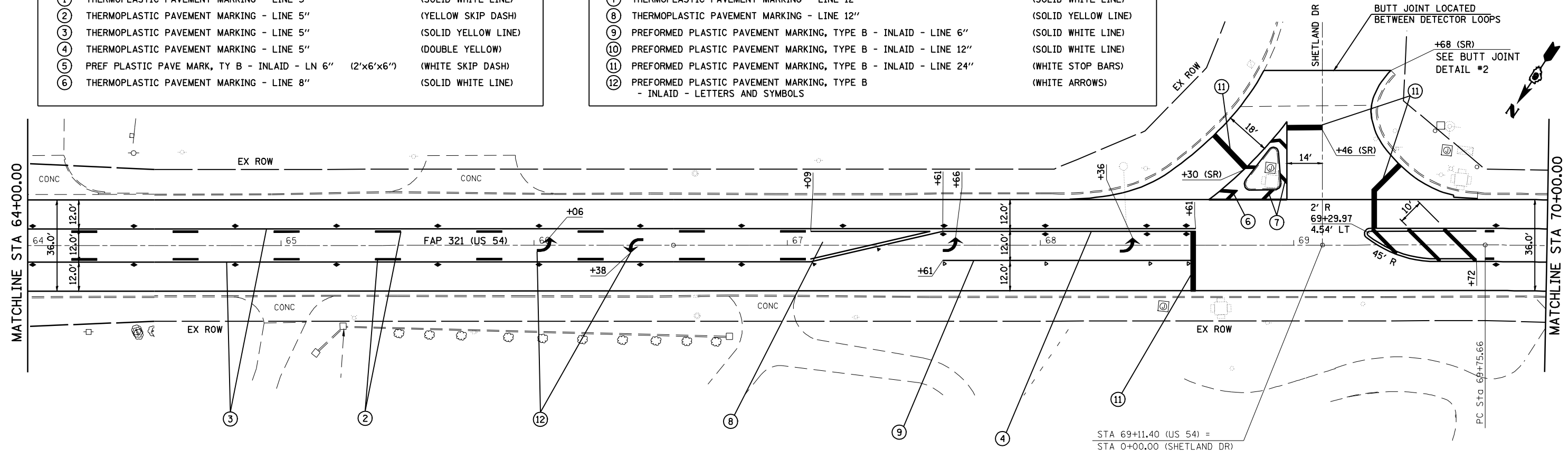


EXIST. CURVE 200
 PI STA. = 59+14.35
 $\Delta = 33^\circ 27' 44''$ (LT)
 $D = 5^\circ 43' 33''$
 $R = 1,000.67'$
 $T = 300.81'$
 $L = 584.42'$
 $E = 44.23'$
 $e = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 56+13.54$
 $P.T. STA. = 61+97.96$

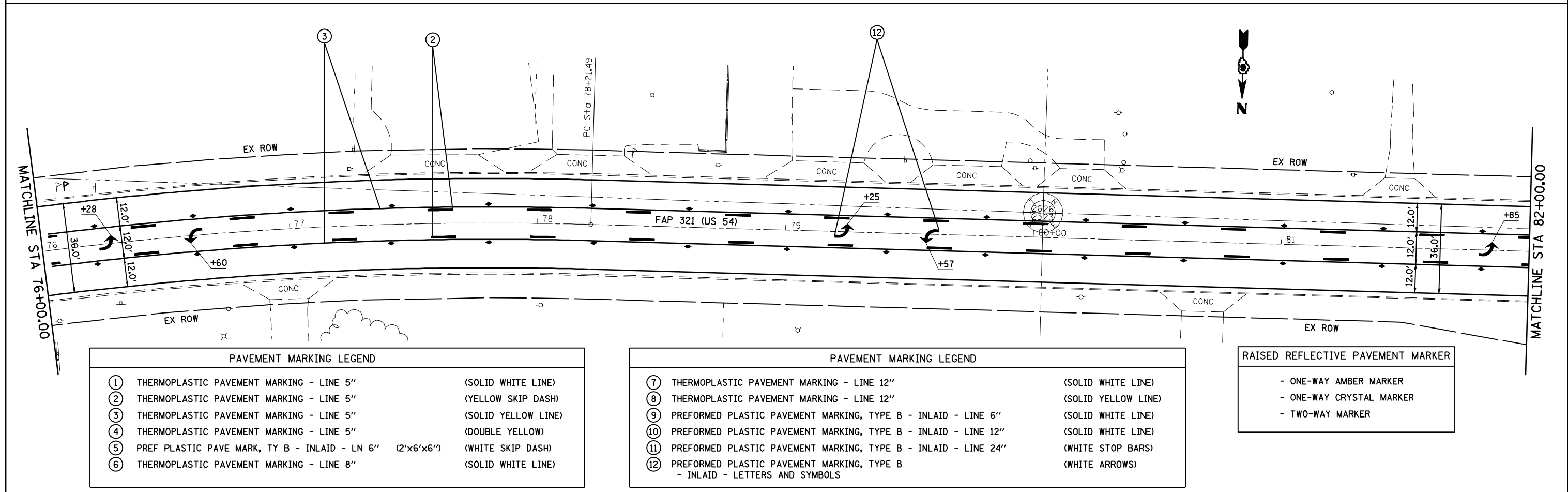
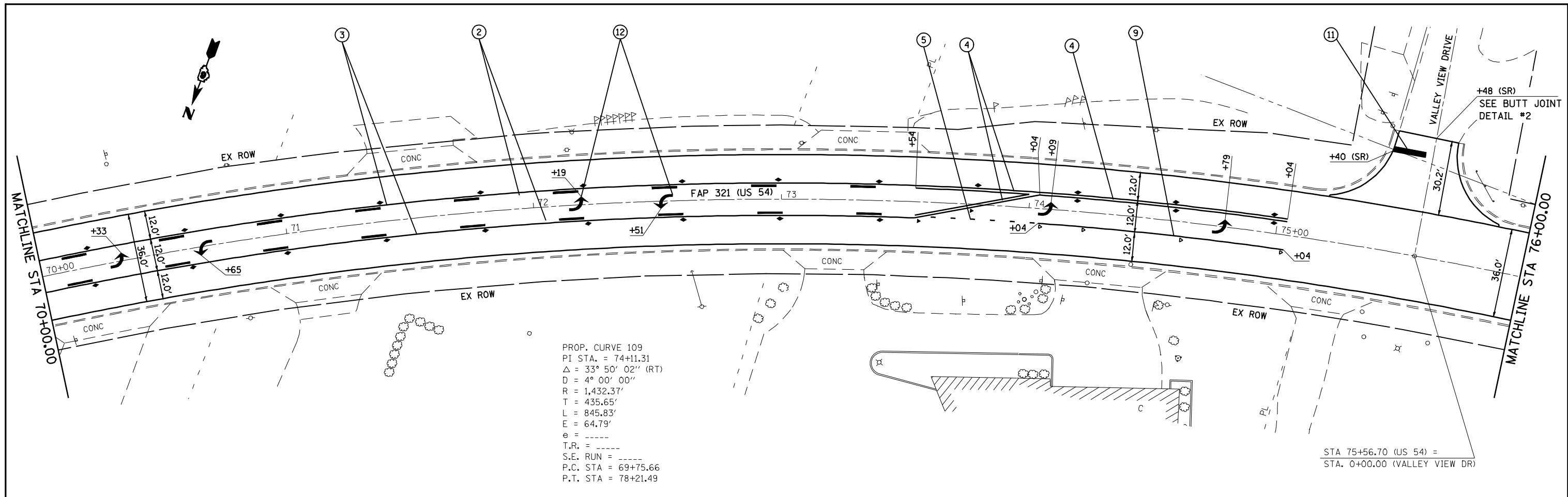
PAVEMENT MARKING LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (YELLOW SKIP DASH)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID YELLOW LINE)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW)
⑤	PREF PLASTIC PAVE MARK, TY B - INLAID - LN 6" (2'x6'x6") (WHITE SKIP DASH)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE LINE)

PAVEMENT MARKING LEGEND	
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE LINE)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW LINE)
⑨	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (SOLID WHITE LINE)
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⑪	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24" (WHITE STOP BARS)
⑫	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS (WHITE ARROWS)

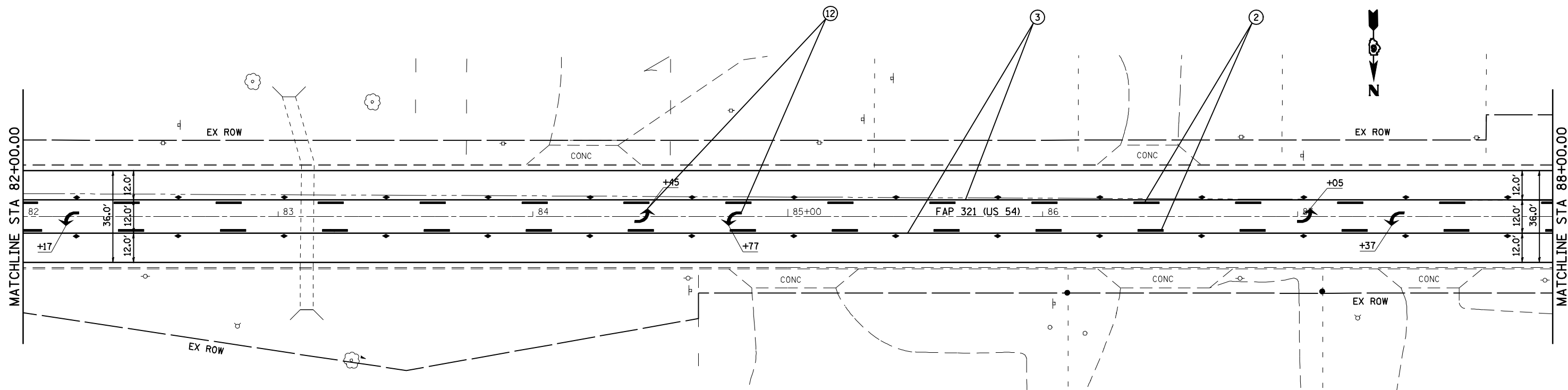
RAISED REFLECTIVE PAVEMENT MARKER	
-	ONE-WAY AMBER MARKER
-	ONE-WAY CRYSTAL MARKER
-	TWO-WAY MARKER



FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) PLAN SHEET 20 SCALE			F.A.P. RTE. 321	SECTION 106RS-5, 18RS-11	COUNTY PIKE	TOTAL SHEETS 41	SHEET NO. 19
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = Mar-11-2010 09:51:02AM		DATE -	REVISED -									



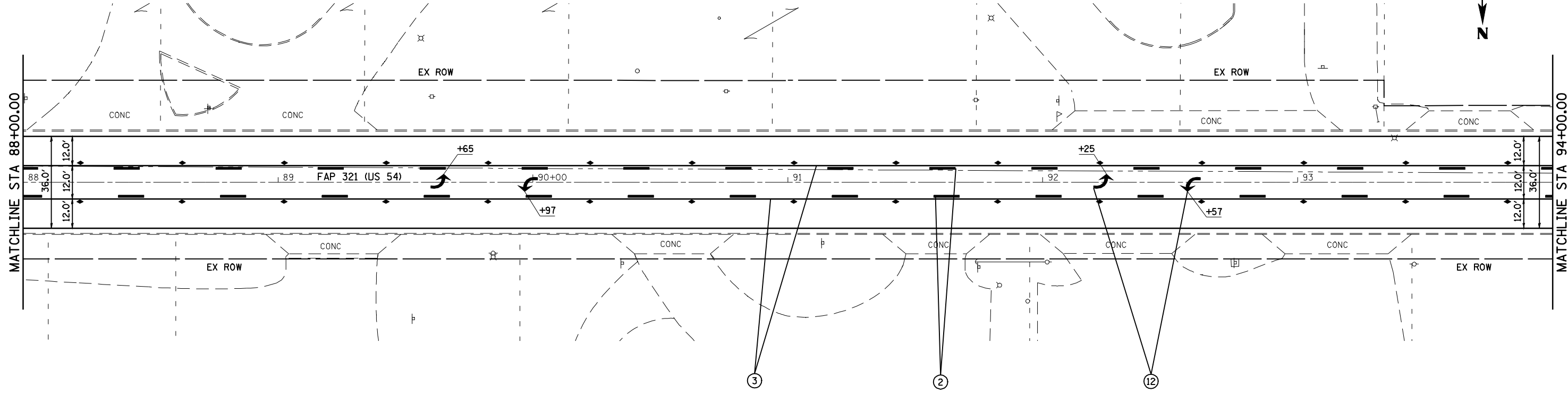
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er:\pwork\p\WID01\COXTE\dms62291\0672043-sh-t-DBLplan20.dgn		DRAWN -	REVISED -			321	106RS-5, 18RS-11	PIKE	41	20
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 72C43			ILLINOIS FED. AID PROJECT	
PLOT DATE = Mar-11-2010 09:51:06AM		DATE -	REVISED -			SCALE: 1" = 20'			SHEET NO. OF SHEETS STA. 70+00.00 TO STA. 82+00.00	

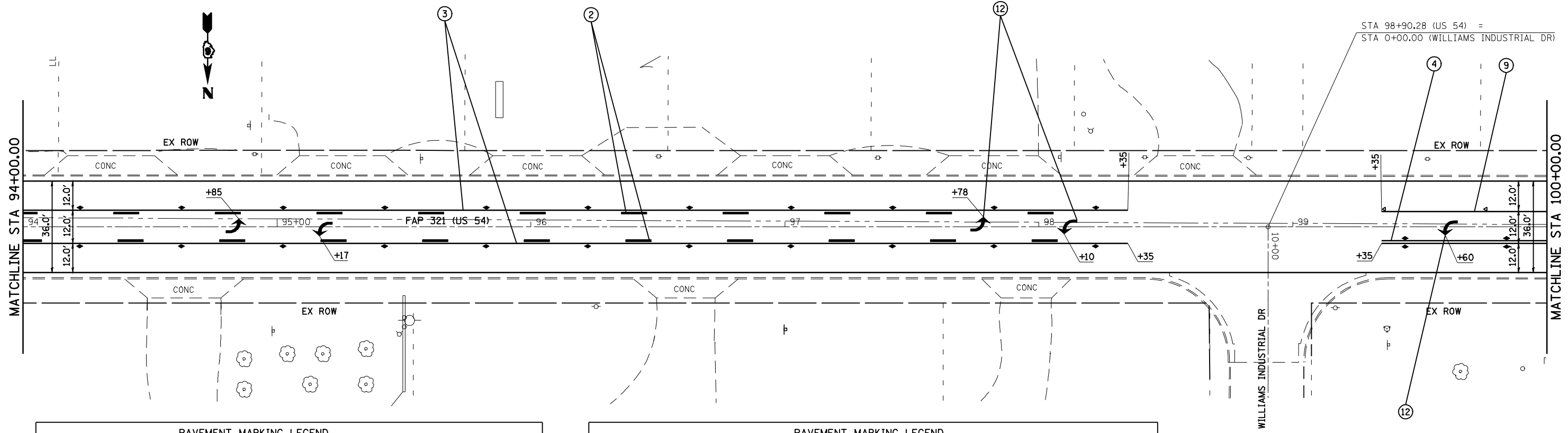


PAVEMENT MARKING LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (YELLOW SKIP DASH)
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⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE LINE)

PAVEMENT MARKING LEGEND	
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE LINE)
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⑨	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (SOLID WHITE LINE)
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⑫	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS (WHITE ARROWS)

RAISED REFLECTIVE PAVEMENT MARKER	
-	ONE-WAY AMBER MARKER
-	ONE-WAY CRYSTAL MARKER
-	TWO-WAY MARKER

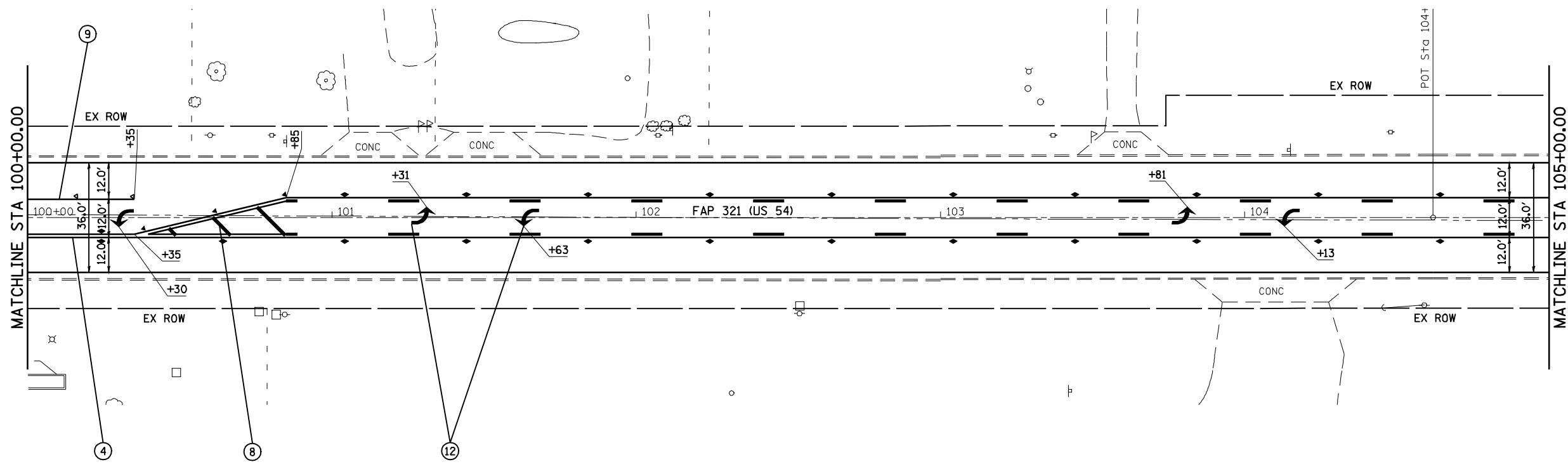




PAVEMENT MARKING LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (YELLOW SKIP DASH)
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-	ONE-WAY CRYSTAL MARKER
-	TWO-WAY MARKER



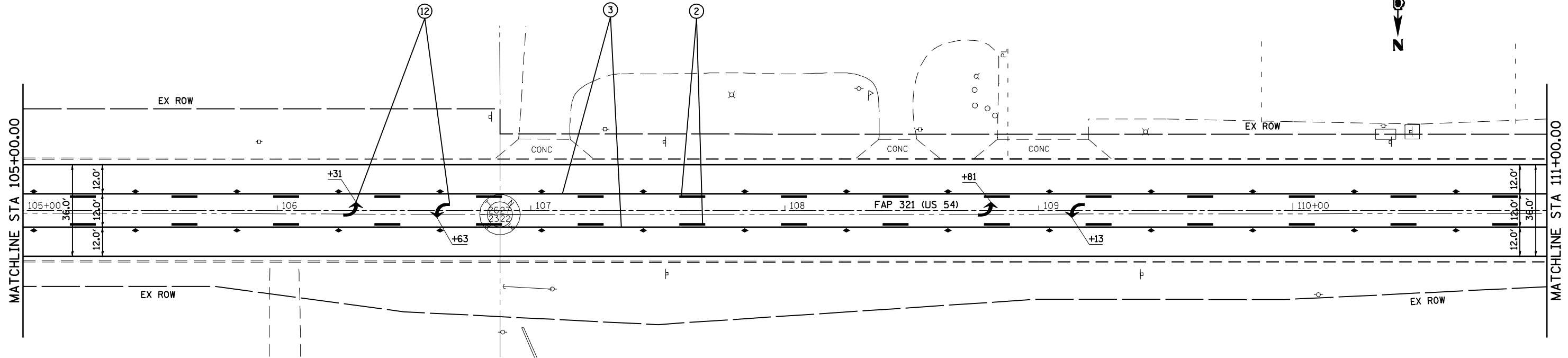
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 321 (US 54) PLAN SHEET
20 SCALE**

SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. 94+00.00 TO STA. 105+00.00
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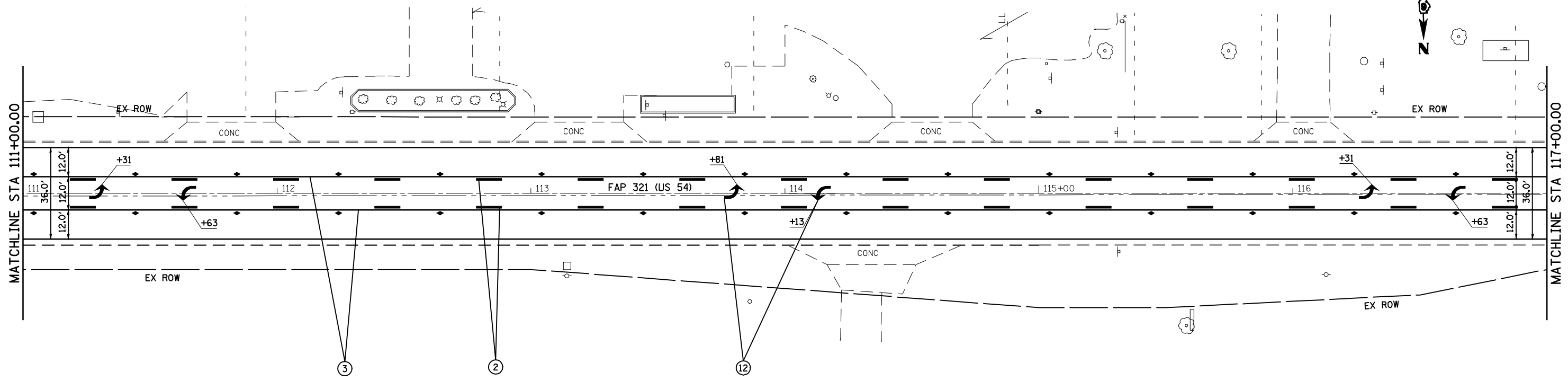
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	22
CONTRACT NO. 72C43				
ILLINOIS FED. AID PROJECT				

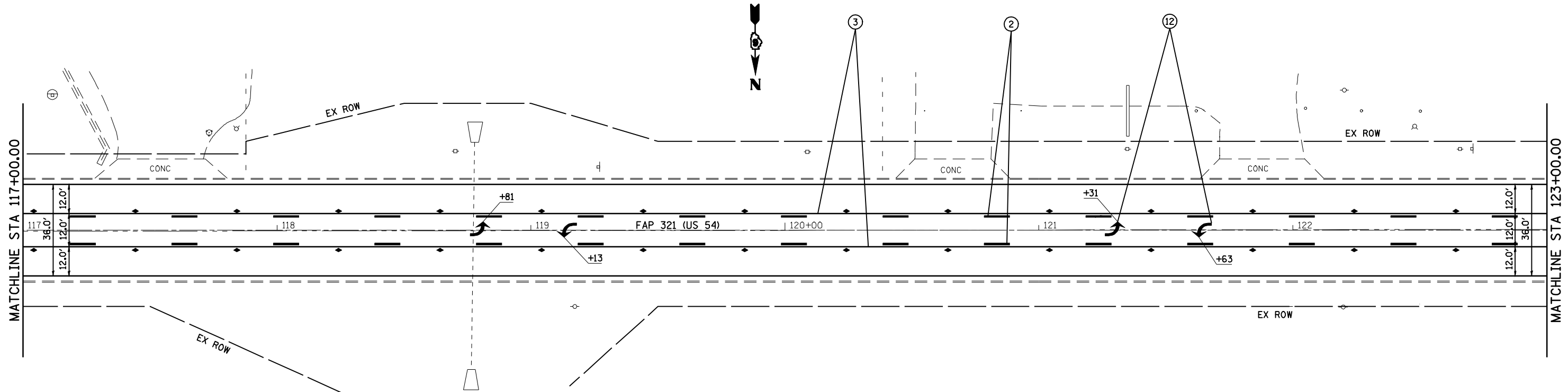


PAVEMENT MARKING LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE LINE)
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RAISED REFLECTIVE PAVEMENT MARKER	
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-	TWO-WAY MARKER

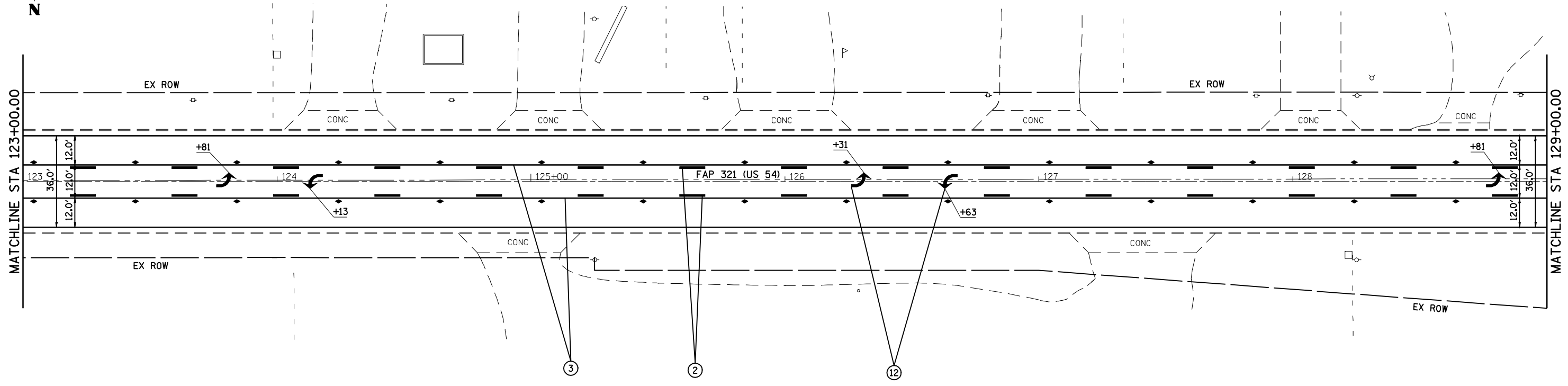




PAVEMENT MARKING LEGEND	
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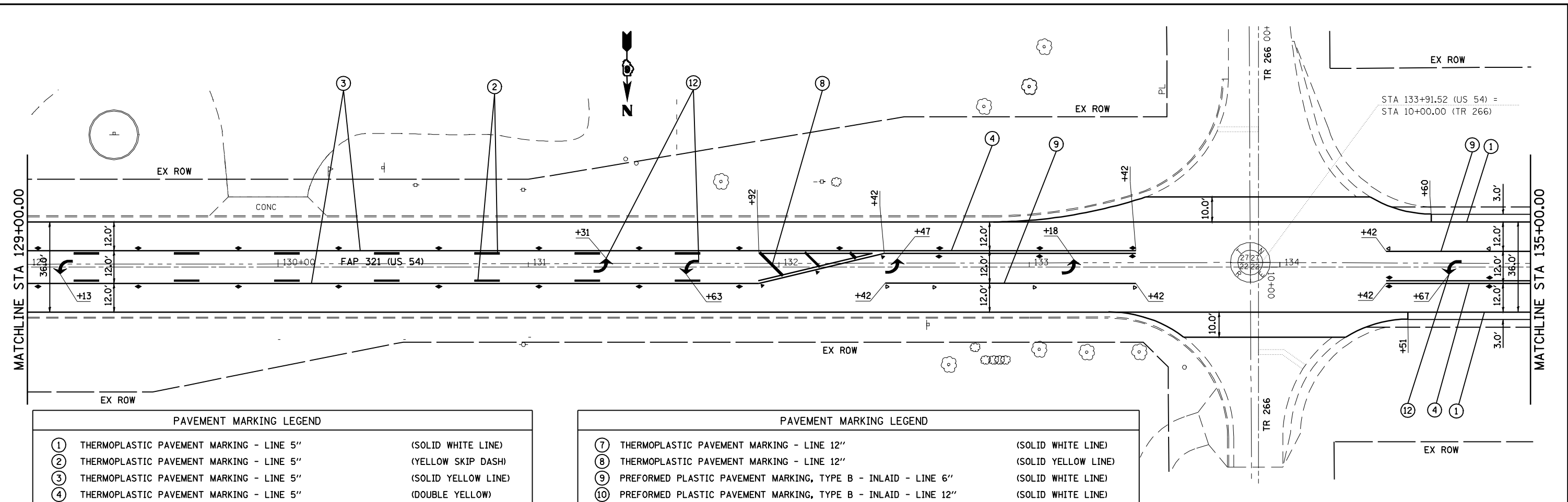


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 321 (US 54) PLAN SHEET			
20 SCALE			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. 117+00.00 TO STA. 129+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	24
CONTRACT NO. 72C43				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

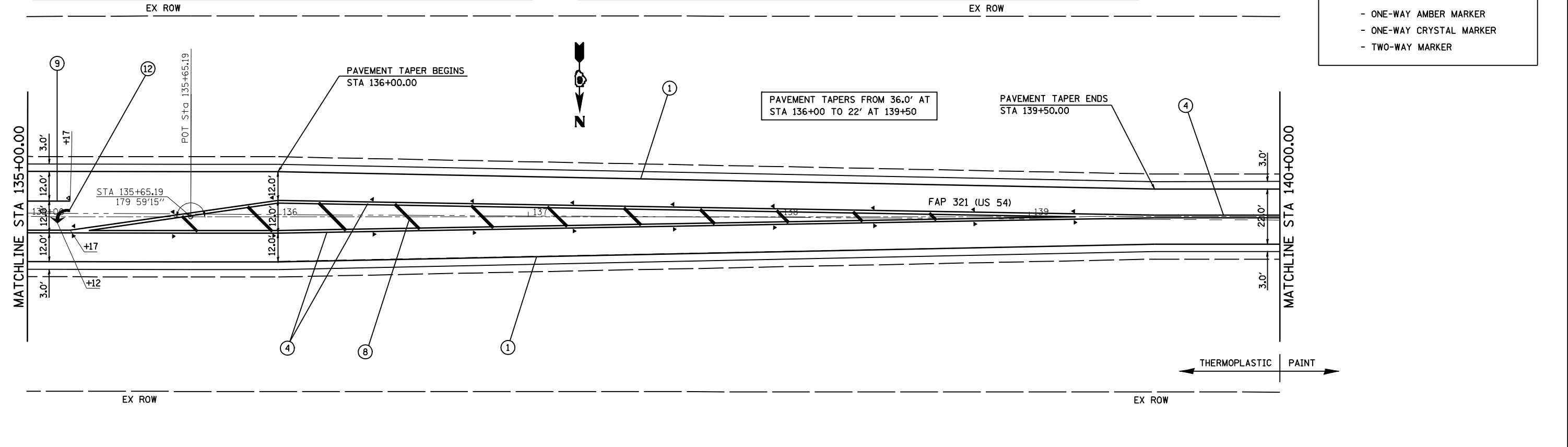
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(YELLOW SKIP DASH)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(SOLID YELLOW LINE)
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⑤	PREF PLASTIC PAVE MARK, TY B - INLAID - LN 6" (2'x6'x6')	(WHITE SKIP DASH)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	(SOLID WHITE LINE)

PAVEMENT MARKING LEGEND

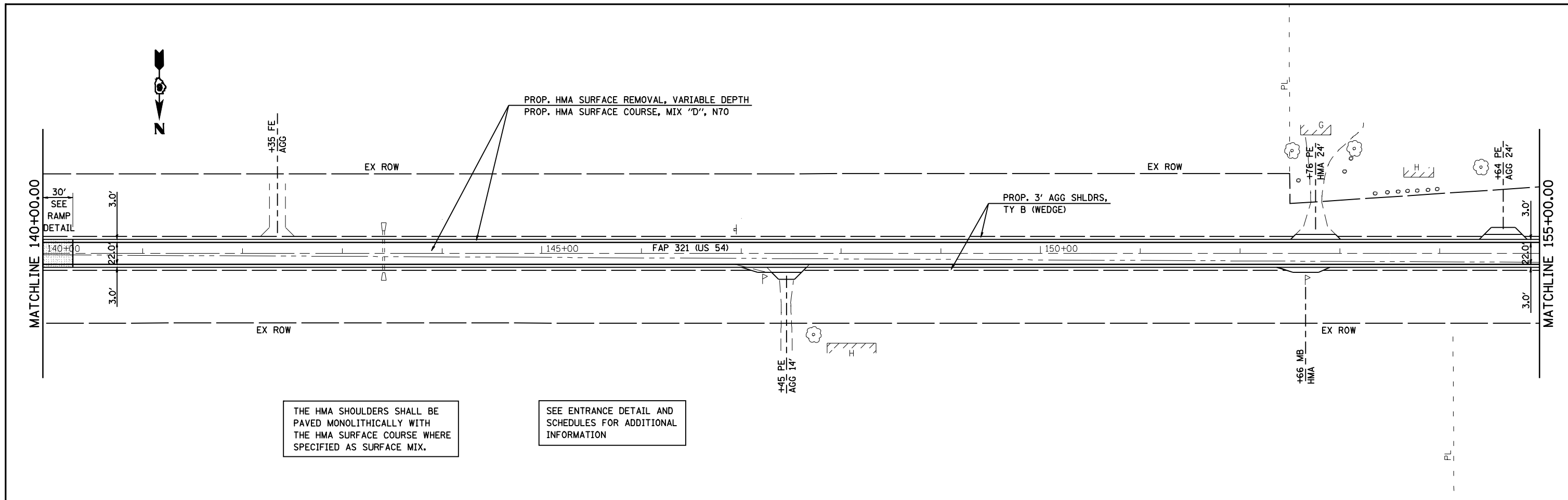
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	(SOLID WHITE LINE)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	(SOLID YELLOW LINE)
⑨	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	(SOLID WHITE LINE)
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⑪	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	(WHITE STOP BARS)
⑫	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	(WHITE ARROWS)

RAISED REFLECTIVE PAVEMENT MARKER

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER
- TWO-WAY MARKER

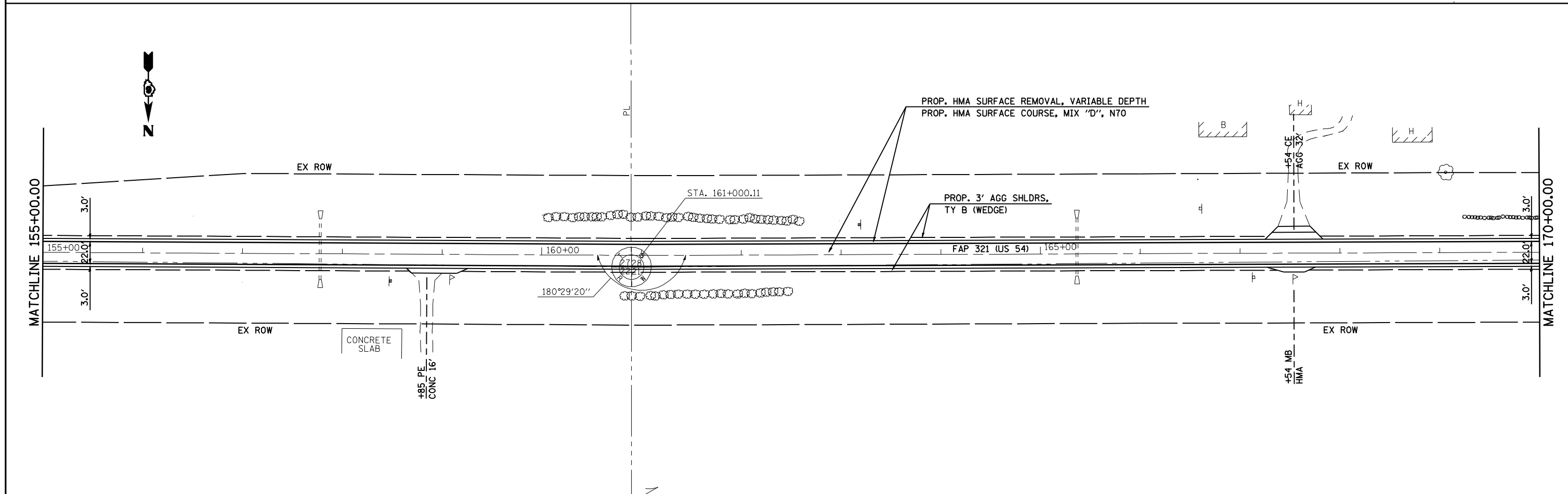


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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -						CONTRACT NO. 72C43				
PLOT DATE = Mar-11-2010 09:51:25AM		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

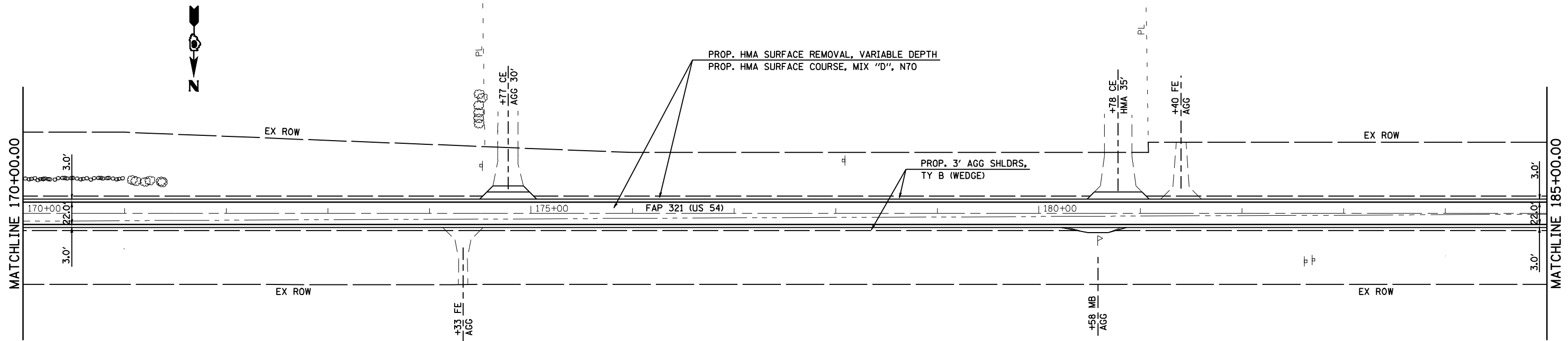


THE HMA SHOULDERS SHALL BE PAVED MONOLITHICALLY WITH THE HMA SURFACE COURSE WHERE SPECIFIED AS SURFACE MIX.

SEE ENTRANCE DETAIL AND SCHEDULES FOR ADDITIONAL INFORMATION

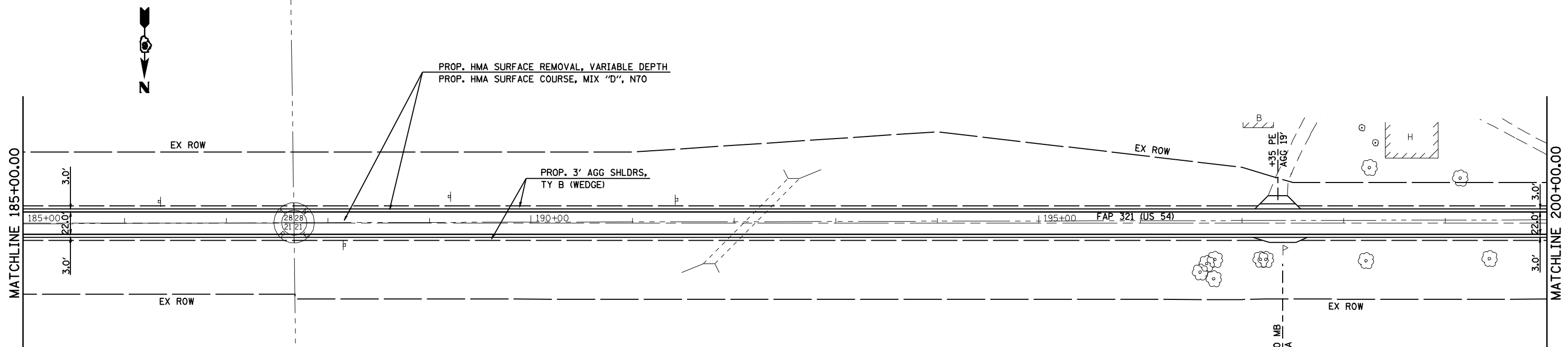


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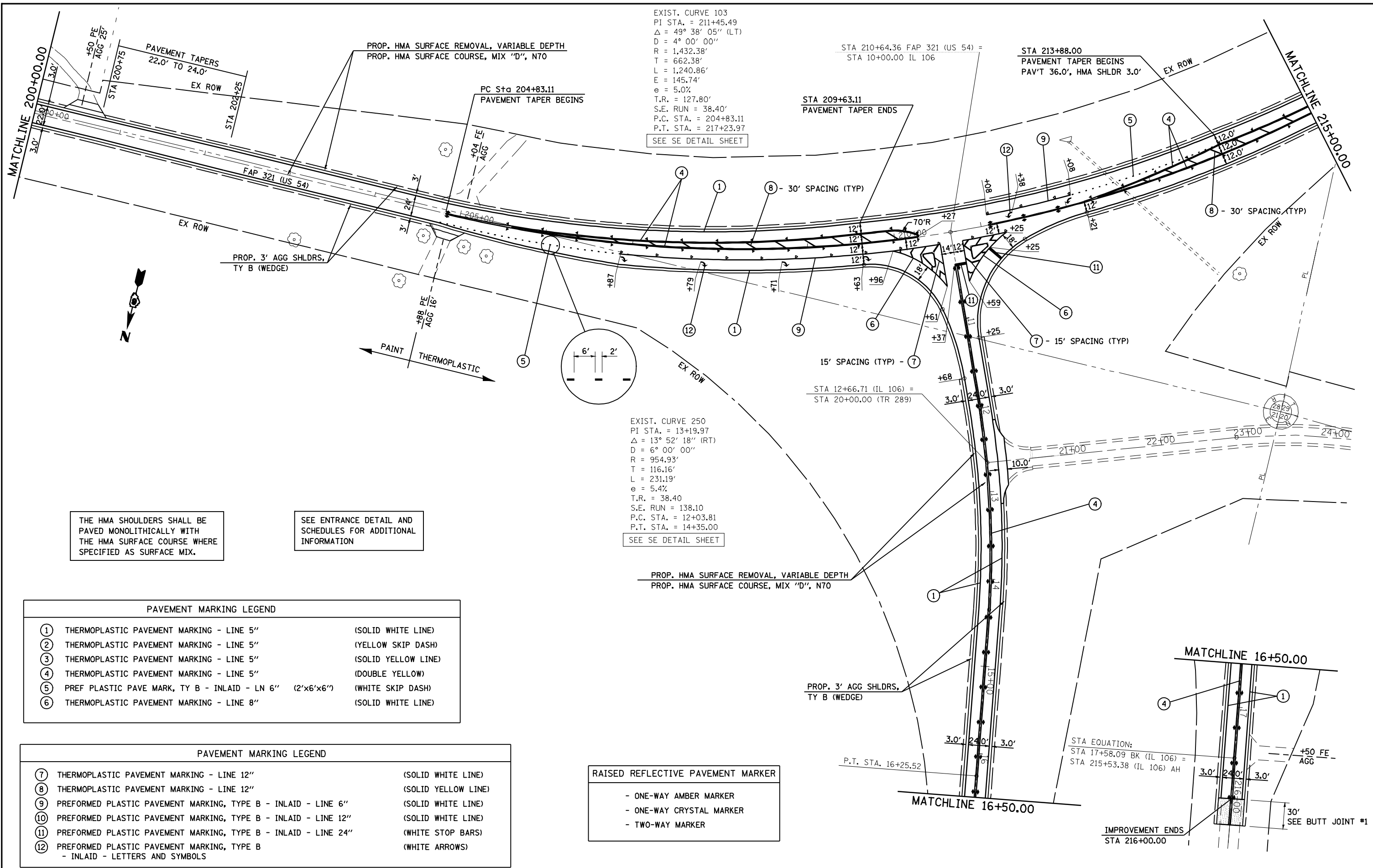


THE HMA SHOULDERS SHALL BE PAVED MONOLITHICALLY WITH THE HMA SURFACE COURSE WHERE SPECIFIED AS SURFACE MIX.

SEE ENTRANCE DETAIL AND SCHEDULES FOR ADDITIONAL INFORMATION



FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 321 (US 54) PLAN SHEETS 50 SCALE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
er:\pwwork\pwwid01\COXTE\dms62291\0672043-shr-dblp1n-1.dgn		DRAWN -	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	321	106RS-5, 18RS-11	PIKE	41	27
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -		STA. 170+00.00	TO	STA. 200+00.00	CONTRACT NO. 72C43					
PLOT DATE = Mar-11-2010 09:51:32AM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



EXIST. CURVE 103
 PI STA. = 211+45.49
 $\Delta = 49^\circ 38' 05''$ (LT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.38'$
 $T = 662.38'$
 $L = 1,240.86'$
 $E = 145.74'$
 $e = 5.0\%$
 $T.R. = 127.80'$
 $S.E. RUN = 38.40'$
 $P.C. STA. = 204+83.11$
 $P.T. STA. = 217+23.97$
 SEE SE DETAIL SHEET

EXIST. CURVE 250
 PI STA. = 13+19.97
 $\Delta = 13^\circ 52' 18''$ (RT)
 $D = 6^\circ 00' 00''$
 $R = 954.93'$
 $T = 116.16'$
 $L = 231.19'$
 $e = 5.4\%$
 $T.R. = 38.40'$
 $S.E. RUN = 138.10'$
 $P.C. STA. = 12+03.81$
 $P.T. STA. = 14+35.00$
 SEE SE DETAIL SHEET

THE HMA SHOULDERS SHALL BE PAVED MONOLITHICALLY WITH THE HMA SURFACE COURSE WHERE SPECIFIED AS SURFACE MIX.

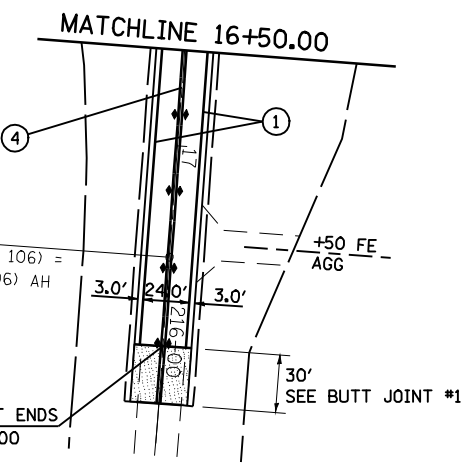
SEE ENTRANCE DETAIL AND SCHEDULES FOR ADDITIONAL INFORMATION

PAVEMENT MARKING LEGEND		
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(YELLOW SKIP DASH)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(SOLID YELLOW LINE)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	(DOUBLE YELLOW)
⑤	PREF PLASTIC PAVE MARK, TY B - INLAID - LN 6" (2'x6'x6")	(WHITE SKIP DASH)
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PAVEMENT MARKING LEGEND		
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RAISED REFLECTIVE PAVEMENT MARKER

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER
- TWO-WAY MARKER

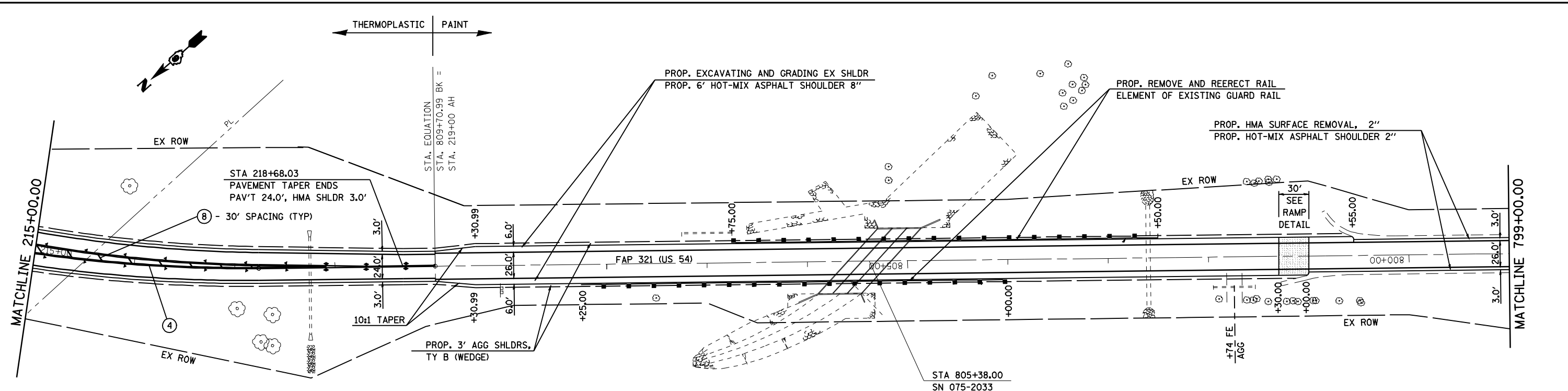


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	PLOT DATE = Mar-11-2010 09:51:35AM	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 321 (US 54) PLAN SHEETS			
50 SCALE			
SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA. TO STA.

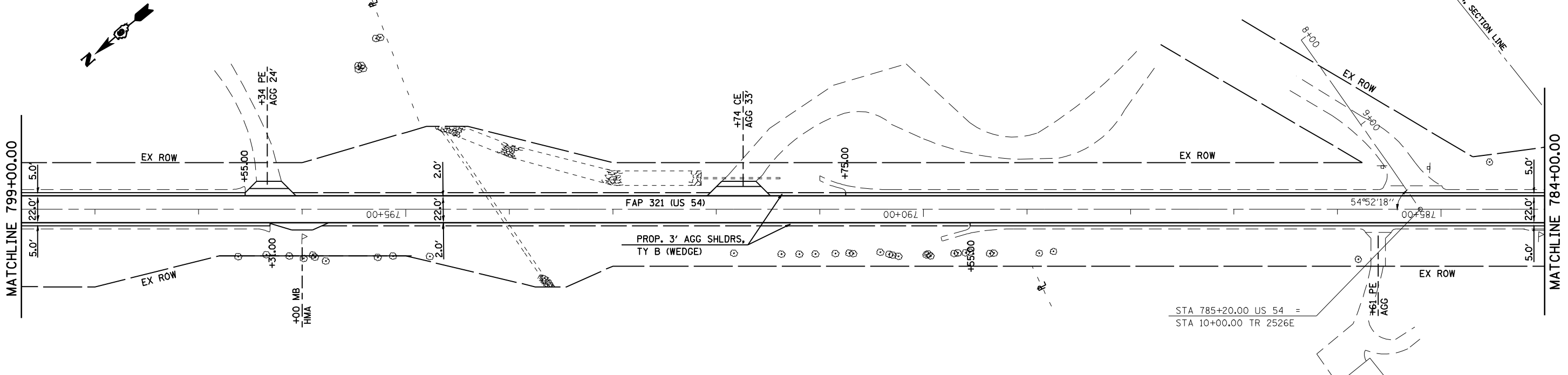
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	28
CONTRACT NO. 72C43				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE LINE)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (YELLOW SKIP DASH)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID YELLOW LINE)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW)
⑤	PREF PLASTIC PAVE MARK, TY B - INLAID - LN 6" (2'x6'x6") (WHITE SKIP DASH)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE LINE)

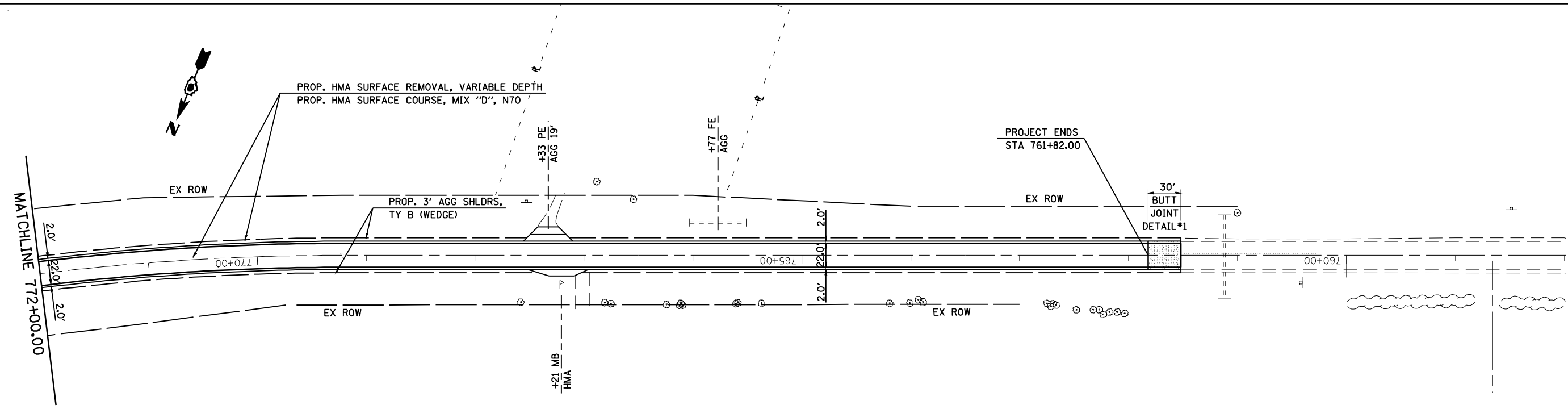
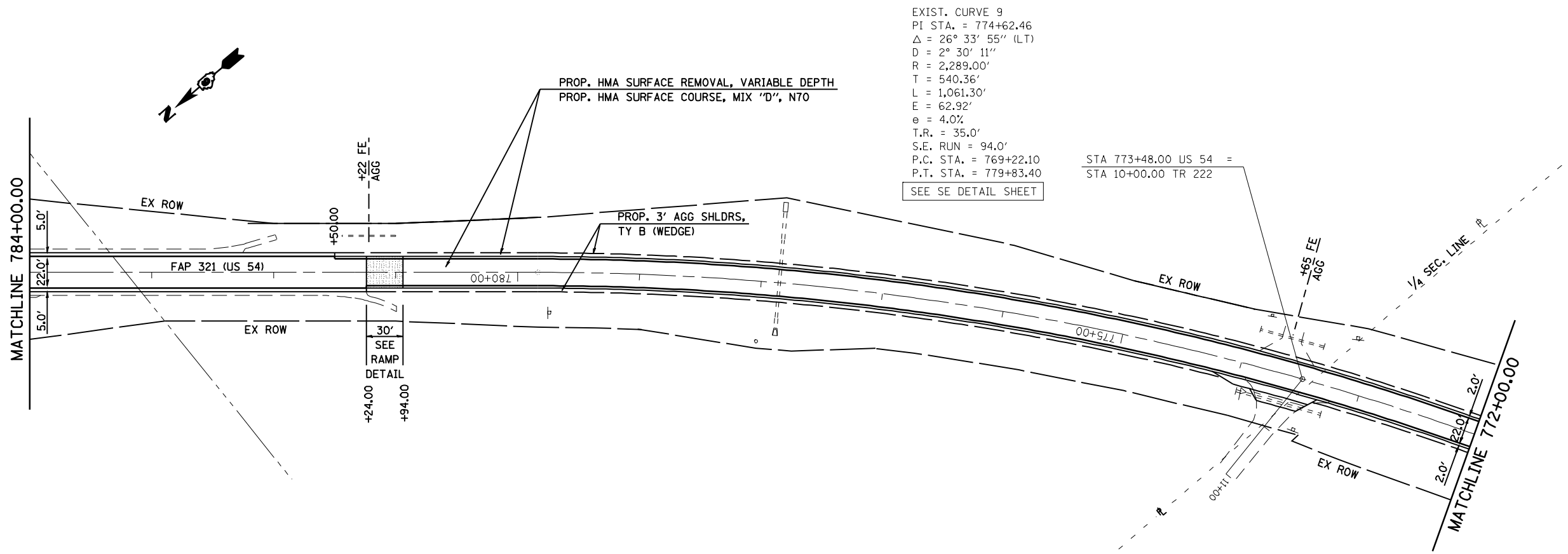
PAVEMENT MARKING LEGEND	
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE LINE)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW LINE)
⑨	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (SOLID WHITE LINE)
⑩	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12" (SOLID WHITE LINE)
⑪	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24" (WHITE STOP BARS)
⑫	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS (WHITE ARROWS)

RAISED REFLECTIVE PAVEMENT MARKER	
-	ONE-WAY AMBER MARKER
-	ONE-WAY CRYSTAL MARKER
-	TWO-WAY MARKER



THE HMA SHOULDERS SHALL BE PAVED MONOLITHICALLY WITH THE HMA SURFACE COURSE WHERE SPECIFIED AS SURFACE MIX.

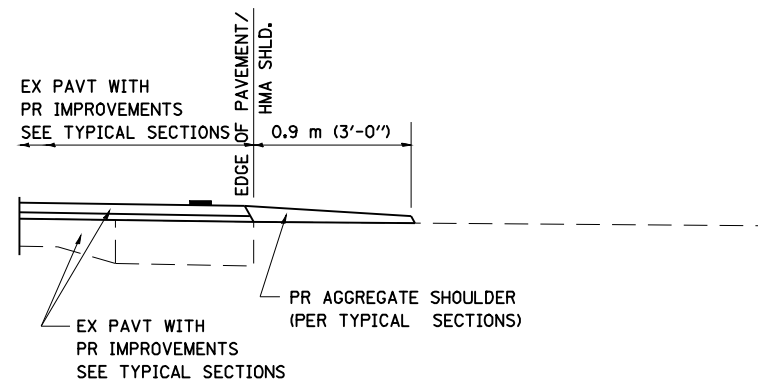
SEE ENTRANCE DETAIL AND SCHEDULES FOR ADDITIONAL INFORMATION



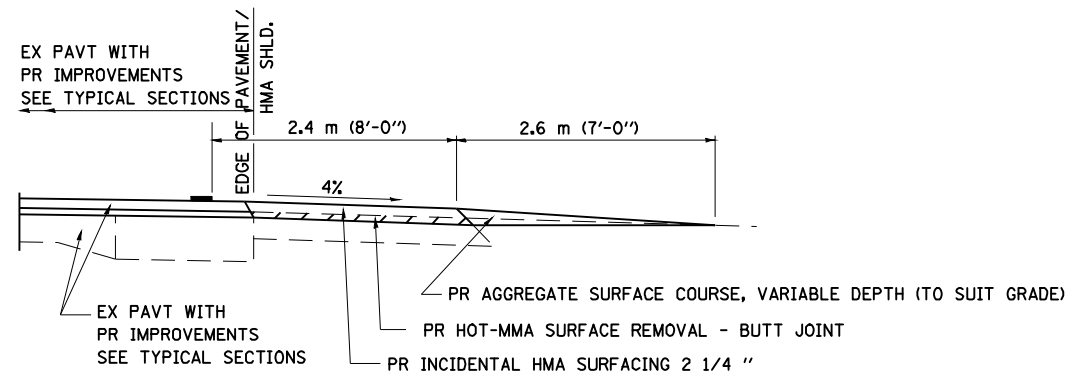
THE HMA SHOULDERS SHALL BE PAVED MONOLITHICALLY WITH THE HMA SURFACE COURSE WHERE SPECIFIED AS SURFACE MIX.

SEE ENTRANCE DETAIL AND SCHEDULES FOR ADDITIONAL INFORMATION

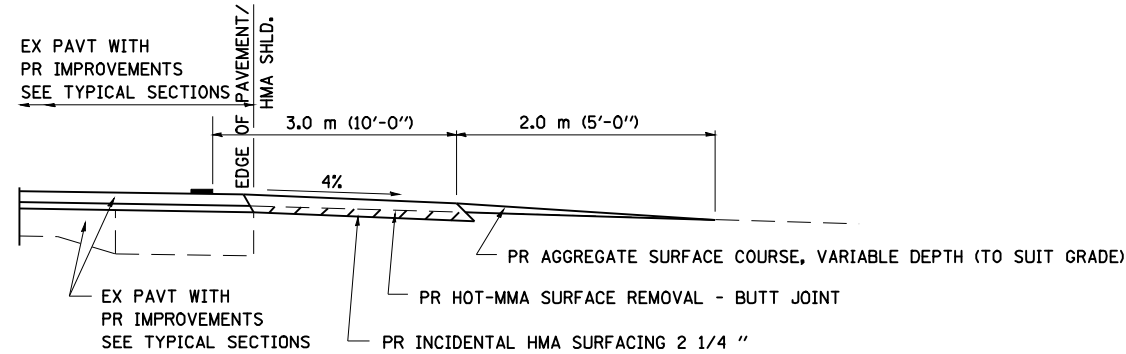
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es:\pwork\pwidot\COXTE\dms62291\0672043-shr-dblp1n-1.dgn		DRAWN -	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA. 784+00.00 TO STA.	321	106RS-5, 18RS-11	PIKE	41	30
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -						CONTRACT NO. 72C43				
PLOT DATE = Mar-11-2010 09:51:42AM		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				



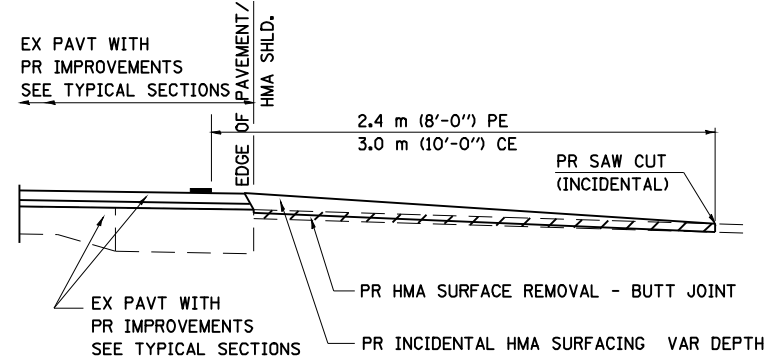
SECTION A-A FOR EX EARTH/AGGREGATE FE



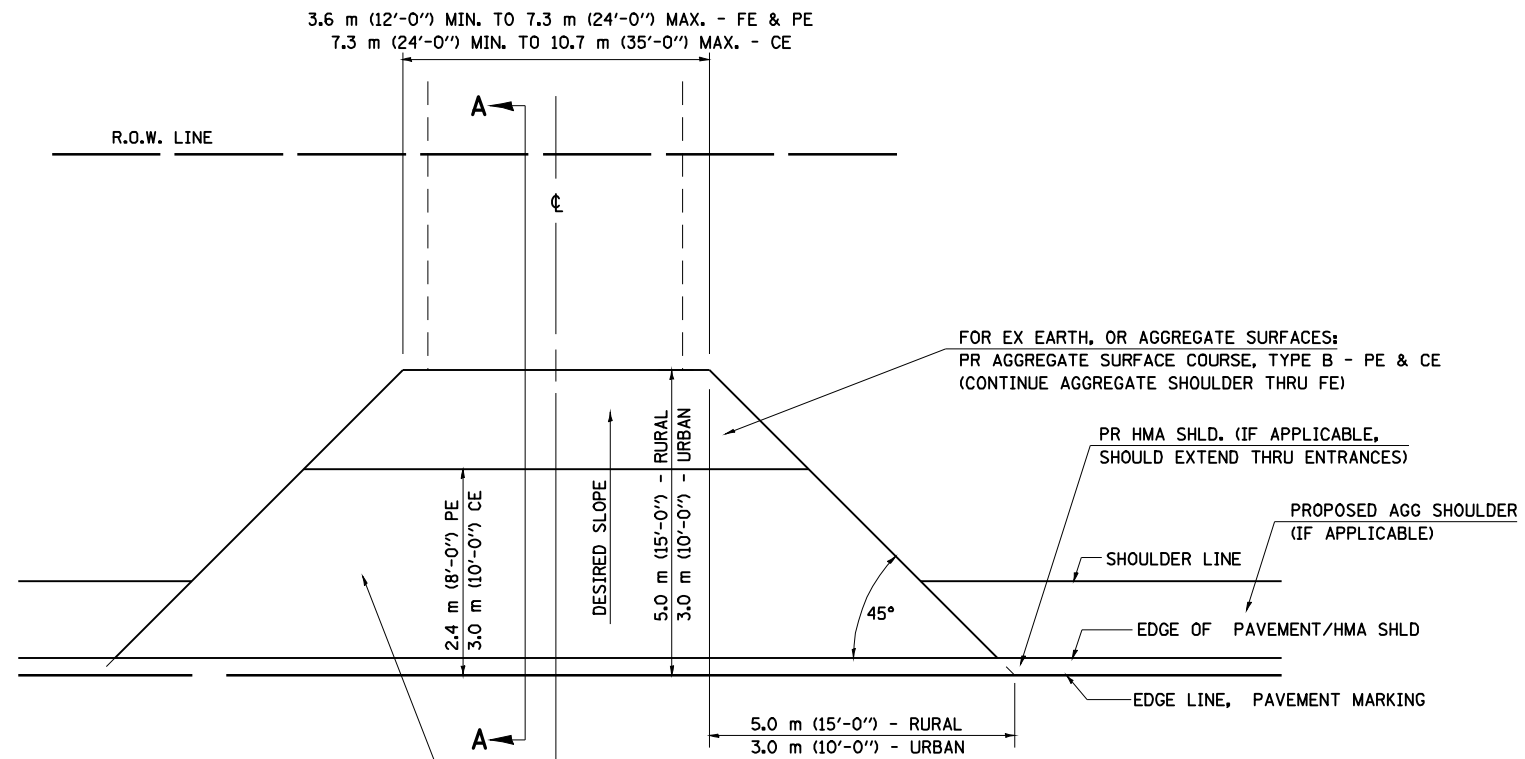
SECTION A-A FOR EX EARTH/AGGREGATE PE WITH EXISTING HMA APRON



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD WITH EXISTING HMA APRON



SECTION A-A FOR EX BITUMINOUS/PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES WITH HMA APRONS:
 PR HMA SURFACE REMOVAL VD (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR INCIDENTAL HMA SURF 90 mm (2 1/4 ") - PE
 PR INCIDENTAL HMA SURF 90 mm (2 1/4 ") - CE

FOR EX HOT-MIX ASPHALT SURFACES:
 PR HMA SURFACE REMOVAL - BUTT JOINT

FOR EX PCC SURFACES:
 PR HMA SURFACE REMOVAL - BUTT JOINT

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE SURFACE COURSE, TYPE B - PE & CE
 (CONTINUE AGGREGATE SHOULDER THRU FE)

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

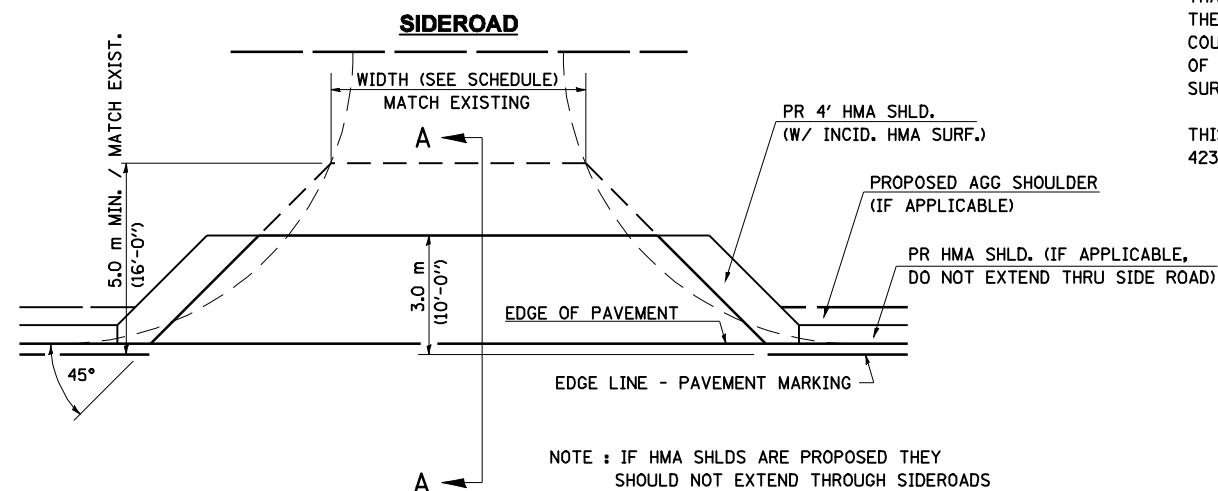
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HOT-MIX ASPHALT REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HOT-MIX ASPHALT PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF HOT-MIX ASPHALT SURFACE COURSE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED - 2/19/03 JCN
es:\pwork\PWID00\COXTE\dm62291\0672043-shr-detail.s.dgn		DRAWN - CADD	REVISED - 4/01/04 JCN
		CHECKED - JCN	REVISED -
		DATE - FEBRUARY 23, 1999	REVISED -

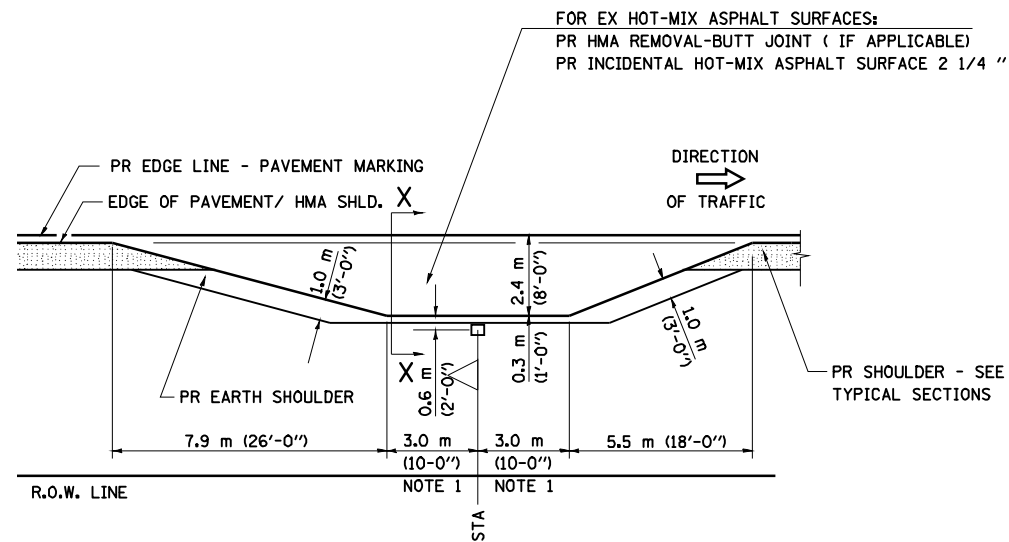
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

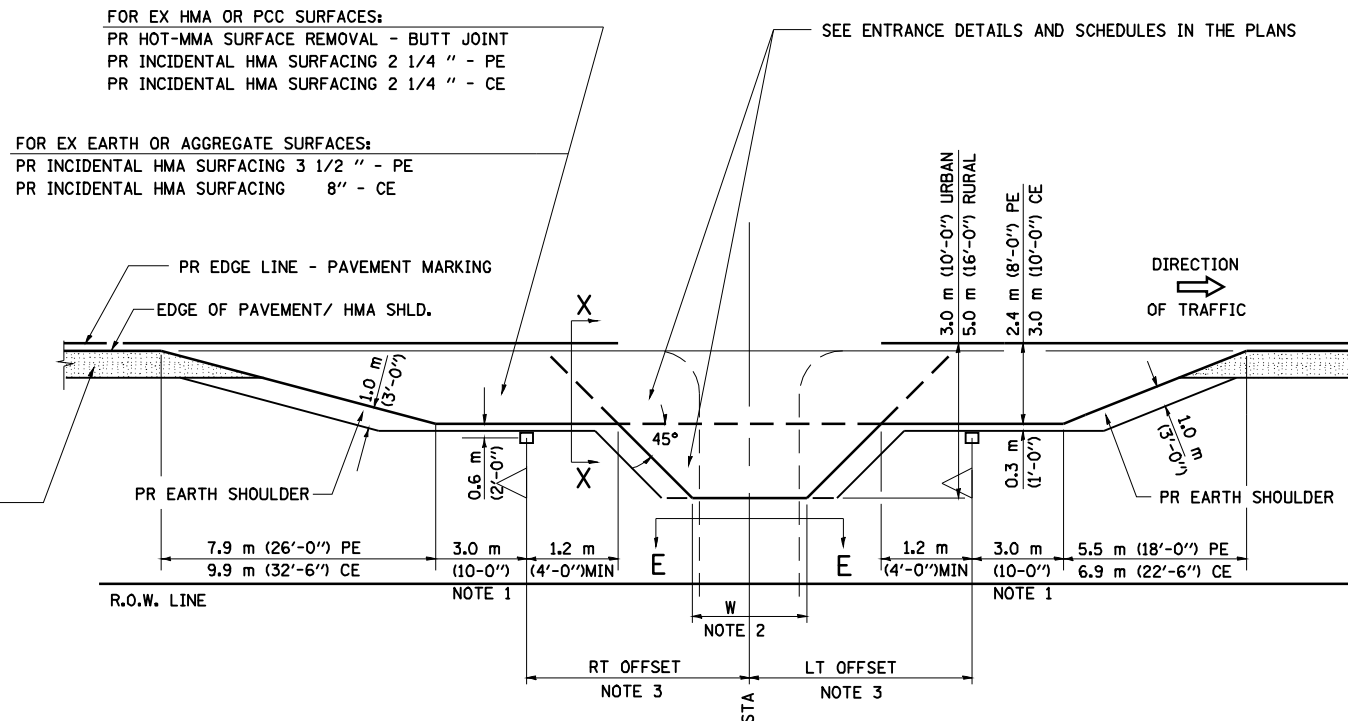
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	31
CONTRACT NO. 72C43				
ILLINOIS FED. AID PROJECT				

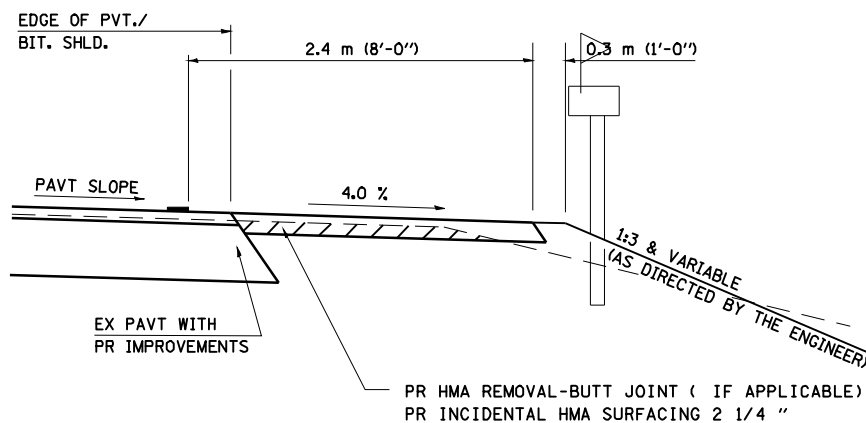
DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS

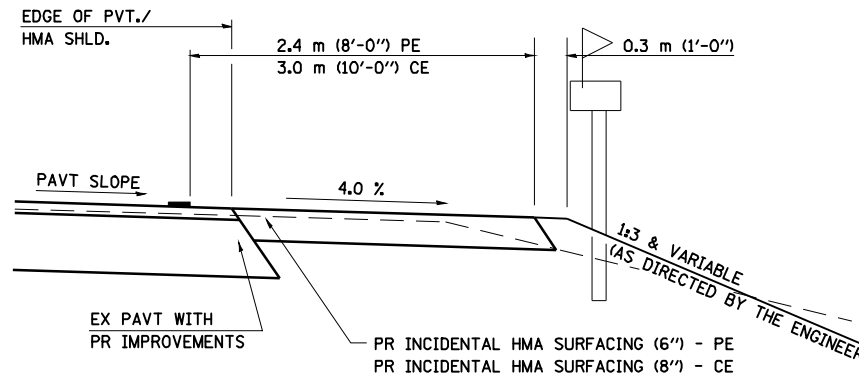


PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



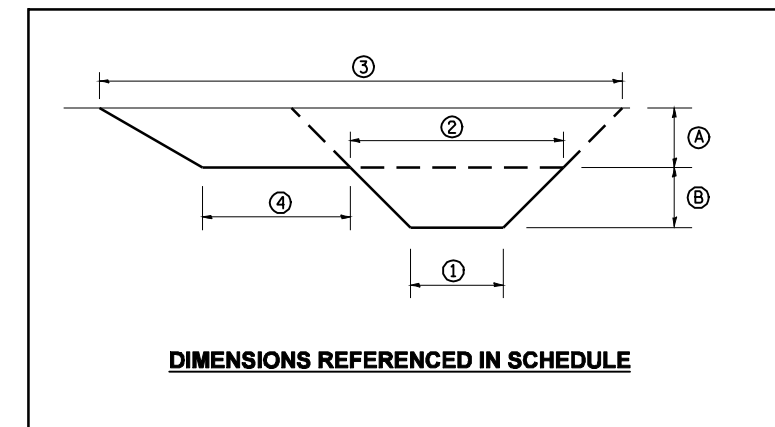
**SECTION X-X THRU MAILBOX TURNOUT
 ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
 EX EARTH, AGGREGATE, OR BITUMINOUS PE & FE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
 IF EXISTING, TREAT SAME AS ENTRANCE.)



**SECTION X-X THRU MAILBOX TURNOUT
 COMBINED WITH EX BITUMINOUS CONC & PC CONC PE & CE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
 IF EXISTING, TREAT SAME AS ENTRANCE.)



- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

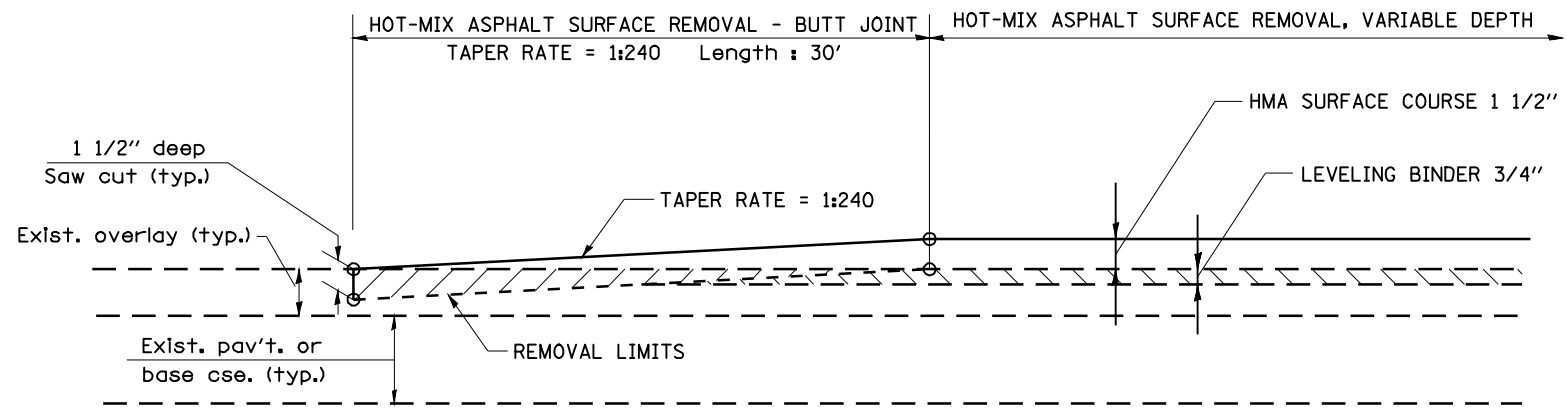
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
 UNLESS OTHERWISE SHOWN.

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ENT PPP.DGN	PLOT SCALE = 40.0000 ' / IN.	DRAWN - CADD	REVISED - 4/01/04 JCN			321	106RS-5, 18RS-11	PIKE	41	32	
PLOT DATE = Mar-11-2010 09:51:47AM	DATE - FEBRUARY 23, 1999	CHECKED - JCN	REVISED -			CONTRACT NO. 72C43					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

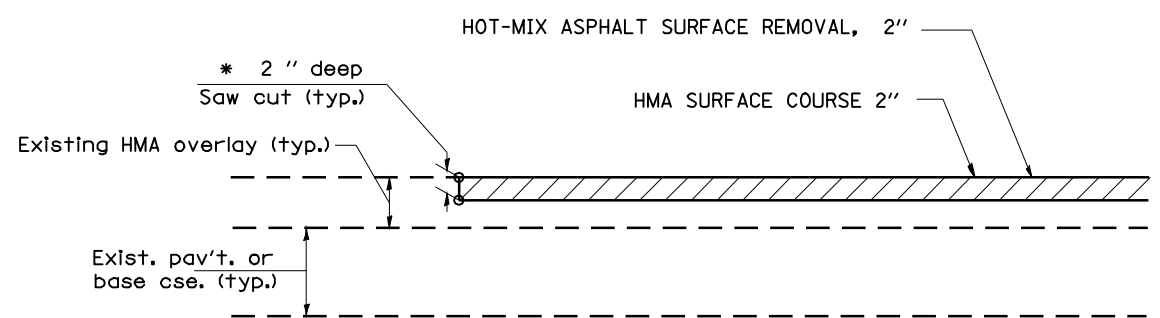
ENTRANCE IMPROVEMENT SCHEDULE FOR RURAL / URBAN "PPP" PROJECTS

LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH 1	WIDTH 2	WIDTH 3	WIDTH 4	LENGTH (FROM EDGE OF PVT/HMA SHLD TO LIMITS OF HMA APRON)	LENGTH (FROM EDGE OF PVT/HMA SHLD TO LIMITS OF IMPROVEMENT)	PR HMA CONC. THICKNESS	HMA SURF. REMOVAL - BUTT JOINT	PREP OF BASE	AGG. BASE REPAIR	AGGREGATE SURFACE COURSE TY - B	BIT (P. C.)	AGG (P. C.)	INCIDENTAL HMA SURF.
(LT / RT) (STA) (+)	(FE / PE / CE / MB) (RURAL / URBAN)	(EARTH / AGG. / HMA / P. C. C.)	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	INCH	SQ. YD.	SQ. YD.	TON	TON	TON	TON	TON
RT STA 60+11	GROVE ST	HMA	0.0	CADD	CADD	0.0	10.0	0	2.00	164.6	0.0	0.0	0.0	0.06	0.3	18.4
LT STA 133+91	TR 266	HMA	0.0	CADD	CADD	0.0	10.0	0	2.00	137.0	0.0	0.0	0.0	0.05	0.3	15.3
RT STA 133+91	TR 266	HMA	0.0	CADD	CADD	0.0	10.0	0	2.00	96.6	0.0	0.0	0.0	0.04	0.2	10.8
RT STA 147+45	PE	AGG	14.0	30.0	65.2	14.0	5.0	7.0	2.25	30.3	0.0	0.0	1.6	0.01	0.0	3.8
RT STA 153+66	MB	HMA	0.0	26.0	53.5	0.0	5.0	0.0	2.25	22.1	0.0	0.0	0.0	0.01	0.0	2.8
LT STA 153+76	PE	HMA	24.0	50.0	0.0	0.0	5.0	0.0	2.25	13.9	0.0	0.0	0.0	0.01	0.0	1.8
LT STA 154+64	PE	AGG	24.0	38.0	48.0	0.0	5.0	7.0	2.25	23.9	0.0	0.0	2.2	0.01	0.0	3.0
RT STA 159+85	PE	CONC	16.0	45.8	62.1	0.0	5.0	0.0	2.25	30.0	0.0	0.0	0.0	0.01	0.0	3.8
RT STA 167+54	MB	HMA	0.0	21.0	48.5	0.0	5.0	0.0	2.25	19.3	0.0	0.0	0.0	0.01	0.0	2.4
LT STA 167+54	CE	AGG	32.0	44.0	58.0	0.0	7.0	5.0	2.25	39.7	0.0	0.0	2.0	0.02	0.0	5.0
LT STA 174+77	CE	AGG	30.0	42.0	56.0	0.0	7.0	5.0	2.25	38.1	0.0	0.0	1.9	0.01	0.0	4.8
RT STA 180+58	MB	AGG	0.0	20.0	64.0	0.0	5.0	0.0	2.25	0.0	23.3	4.0	0.0	0.00	0.0	7.8
LT STA 180+78	CE	HMA	35.0	47.0	61.0	0.0	7.0	0.0	2.25	42.0	0.0	0.0	0.0	0.02	0.0	5.3
LT STA 197+35	PE	AGG	19.0	35.0	45	0.0	5.0	7.0	2.25	22.2	0.0	0.0	1.9	0.01	0.0	2.8
RT STA 197+40	MB	HMA	0.0	26.0	53.5	0.0	5.0	0.0	2.25	22.1	0.0	0.0	0.0	0.01	0.0	2.8
LT STA 200+50	PE	AGG	25.0	40.0	50.0	0.0	5.0	7.0	2.25	25.0	0.0	0.0	2.3	0.01	0.0	3.2
RT STA 204+88	PE	AGG	16.0	31.8	41.6	0.0	5.0	7.0	2.25	20.4	0.0	0.0	1.7	0.01	0.0	2.6
LT STA 796+34	PE	AGG	24.0	38.0	52.0	0.0	7.0	7.0	2.00	35.0	0.0	0.0	2.1	0.01	0.0	3.9
RT STA 796+00	MB	HMA	0.0	20.0	53.0	0.0	7.0	0.0	2.00	28.4	0.0	0.0	0.0	0.01	0.0	3.2
LT STA 791+74	CE	AGG	33.0	43.0	61.0	0.0	9.0	5.0	2.00	52.0	0.0	0.0	1.8	0.02	0.0	5.8
RT STA 773+48	TR 222	AGG	34.0	46.6	89.2	14.0	6.0	7.0	2.25	49.9	0.0	0.0	2.9	0.02	0.0	6.3
LT STA 767+33	PE	AGG	19.0	33.0	45.0	0.0	6.0	7.0	2.25	26.0	0.0	0.0	1.9	0.01	0.0	3.3
RT STA 767+21	MB	HMA	0.0	23.0	56.0	0.0	6.0	0.0	2.25	26.3	0.0	0.0	0.0	0.01	0.0	3.3
IL 106 STA 12+66	TR 289	HMA	0.0	CADD	CADD	0.0	6.0	7.0	2.25	84.8	0.0	0.0	0.0	0.03	0.2	10.7
TOKEN QUANTITY TO BE USED AT THE DISCRETION OF THE ENGINEER										0.0	100.0	15.0	0.0	0.00	0.0	0.0
TOTAL =										1049.6	123	19	22	0.4	1.0	133

* SEE PREVIOUS SHEET FOR DETAIL OF DIMENSION LOCATIONS

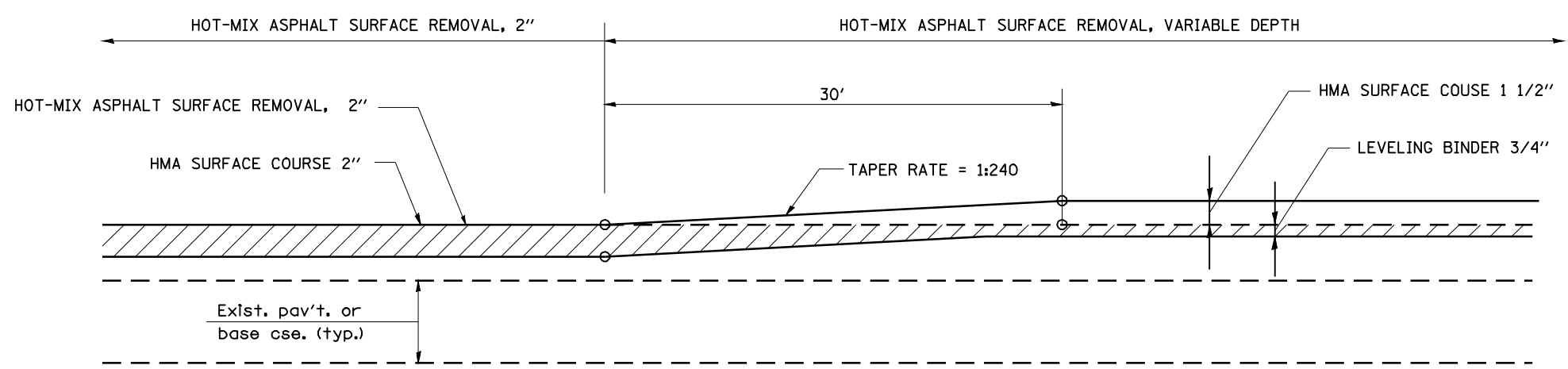


BUTT JOINT DETAIL #1



* SAW CUT IS INCLUDED IN THE COST OF HMA SURFACE REMOVAL 2" AND IS NOT TO BE PAID SEPARATELY.

BUTT JOINT DETAIL #2

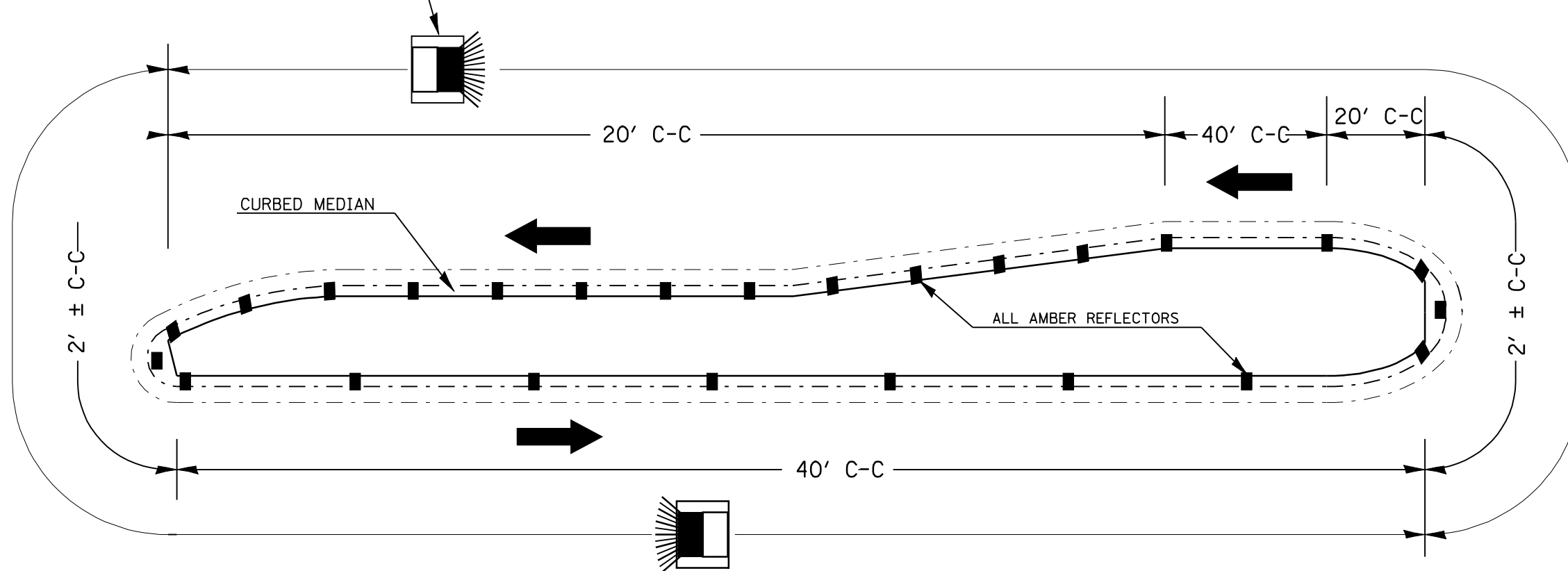


RAMP DETAIL

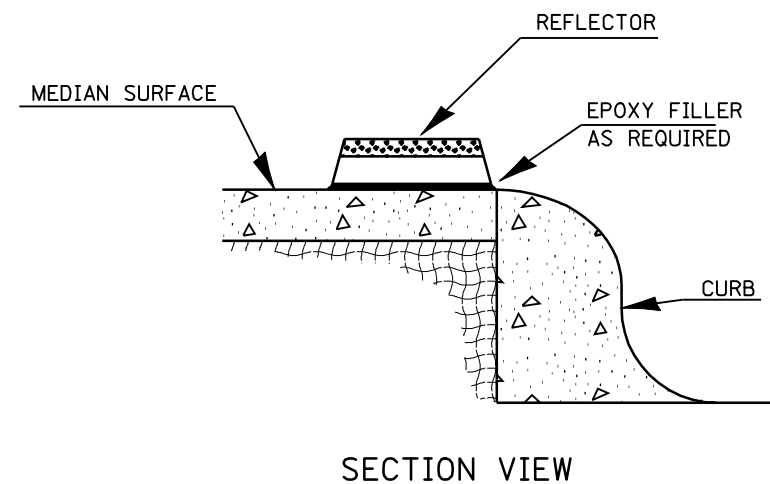
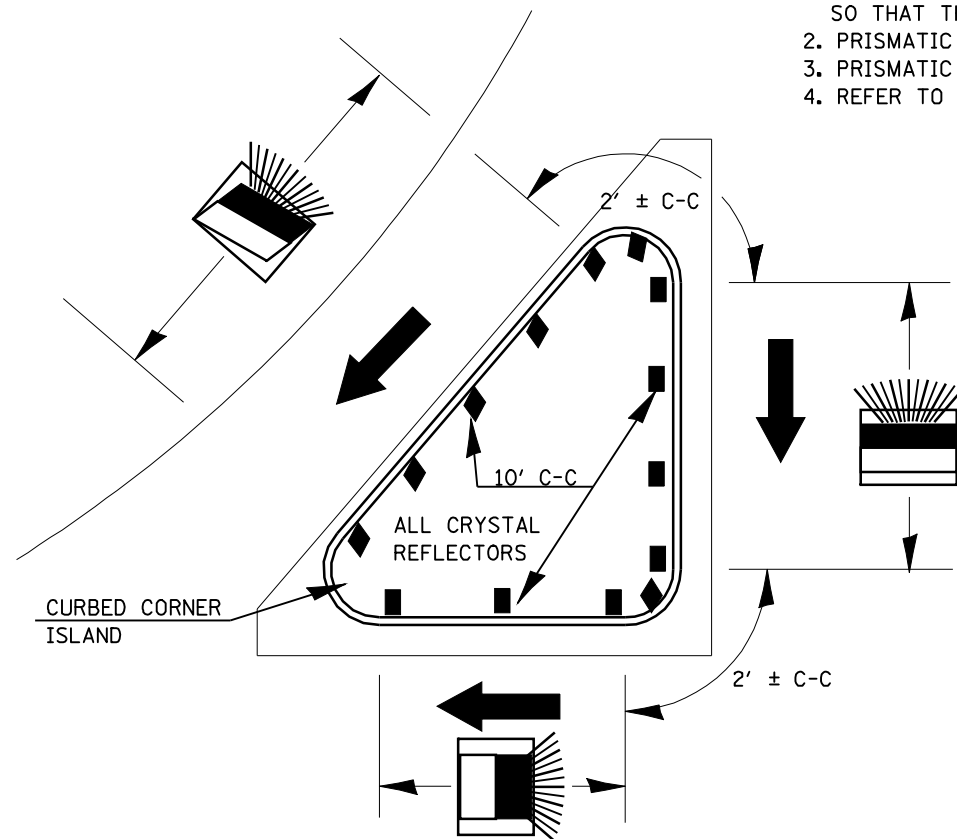
FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND RAMP DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
er\pwwork\pwwid\COXTE\dm62291\0672043-sh-t-detail.dgn		DRAWN -	REVISED -		321	106RS-5, 18RS-11	PIKE	41	34				
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 72C43								
PLOT DATE = Mar-11-2010 09:51:52AM		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

TYPICAL PLACEMENT OF PRISMATIC REFLECTORS ON CURBS

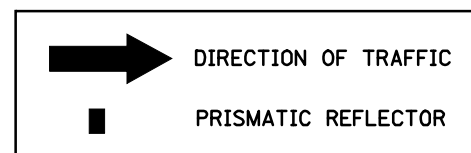
MARKER ORIENTATION WITHIN LIMITS SHOWN



1. PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL AND POSITIONED SO THAT THE REFLECTIVE FACE IS FACING THE APPROACHING TRAFFIC.
2. PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3. PRISMATIC REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.
4. REFER TO SCHEDULES FOR PRISMATIC REFLECTOR QUANTITIES.

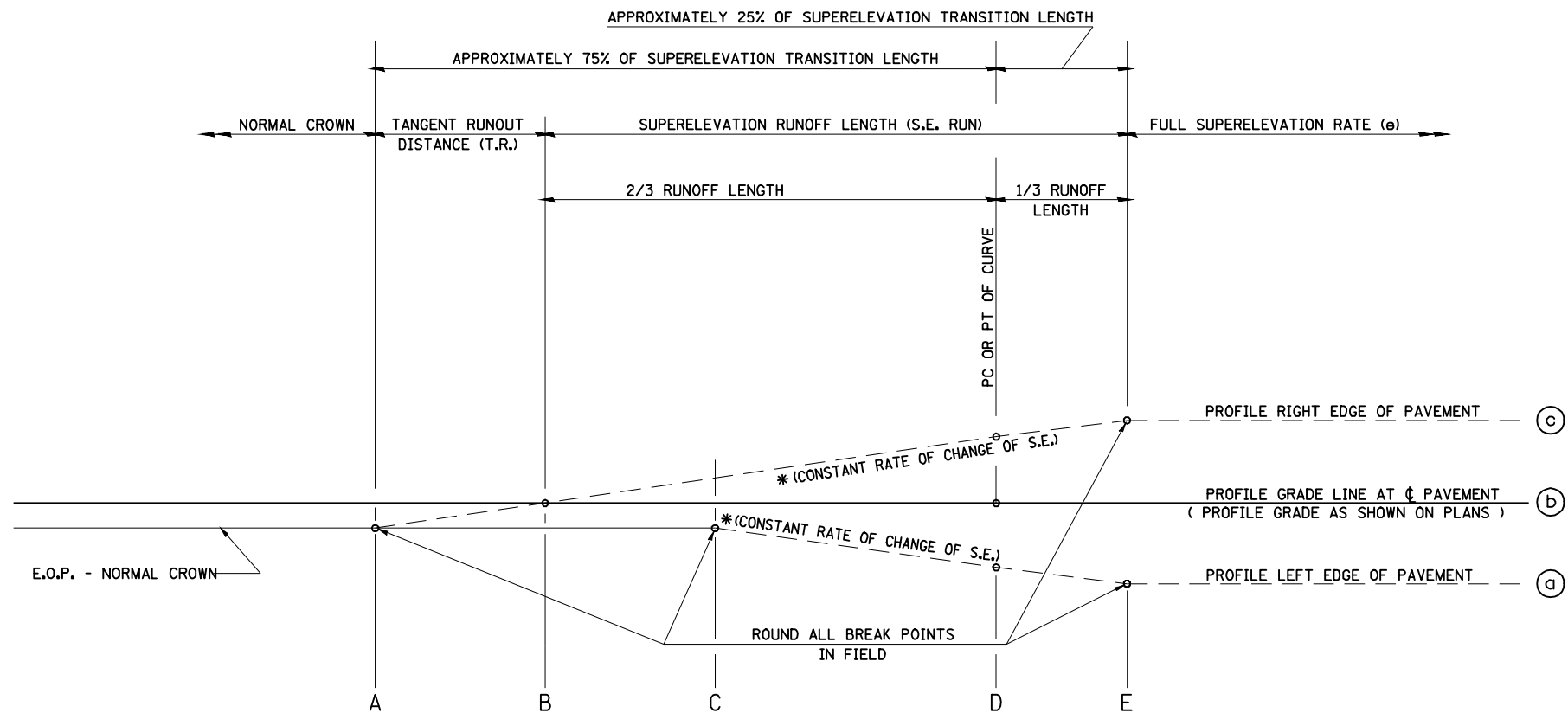


LEGEND



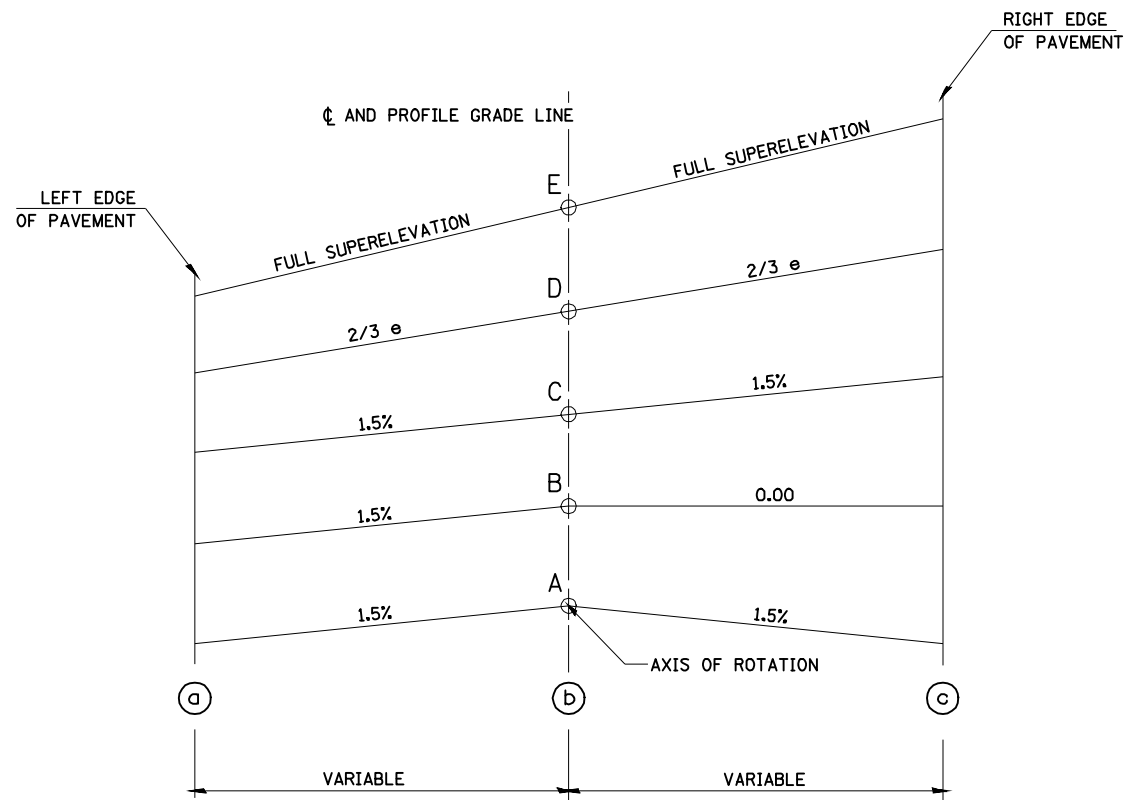
NOT TO SCALE

FILE NAME = PRISM.DGN	USER NAME = coxte	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRISMATIC REFLECTOR DETAILS (PLACED ON CURB)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					321	106RS-5, 18RS-11	PIKE	41	35
	PLOT DATE = Mar-11-2010 09:51:54AM	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 72C43		
		DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

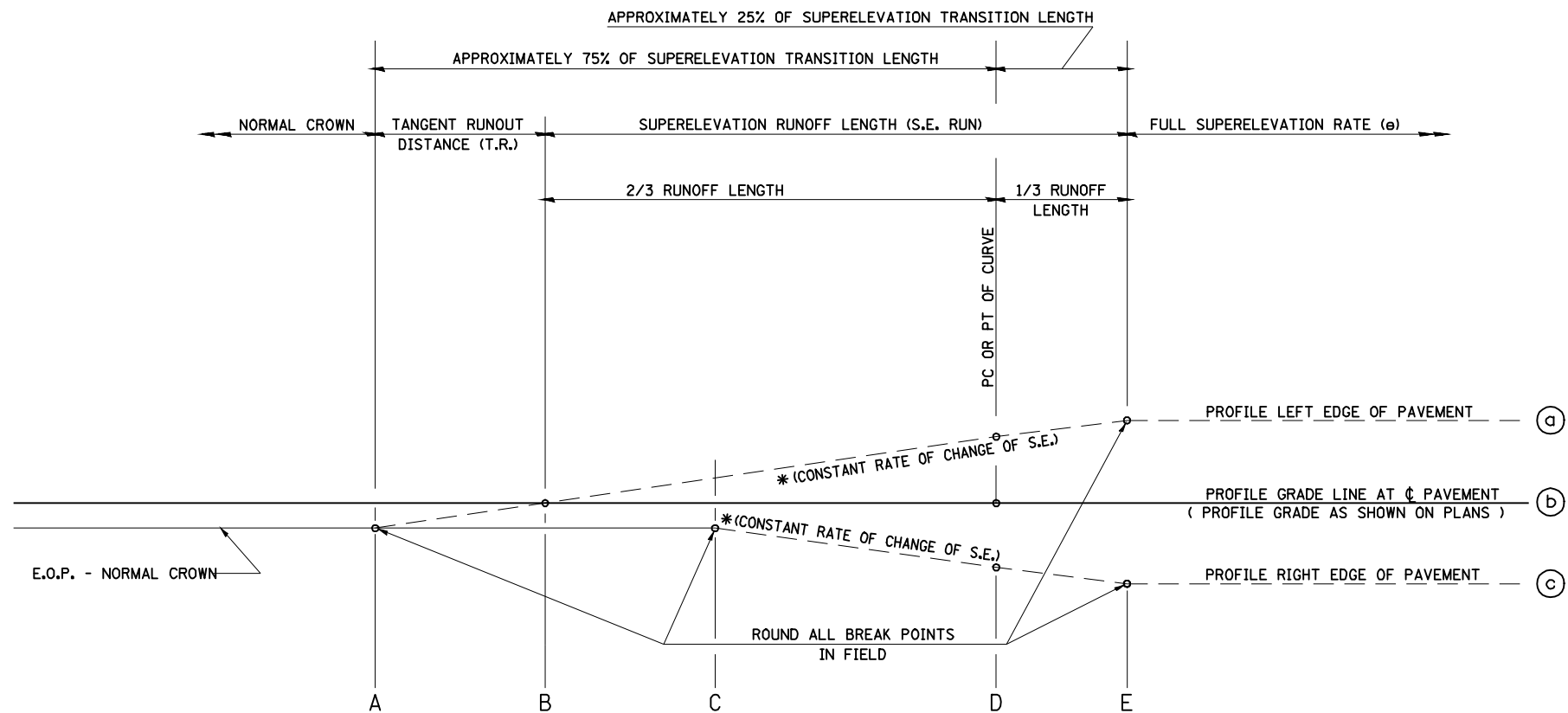


TYPICAL PROFILE - S.E. TRANSITION

US 54	US 54
EXIST. CURVE 103	EXIST. CURVE 9
PI STA. = 211+45.49	PI STA. = 774+62.46
$\Delta = 49^\circ 38' 05''$ (LT)	$\Delta = 26^\circ 33' 55''$ (LT)
D = $4^\circ 00' 00''$	D = $2^\circ 30' 11''$
R = 1,432.38'	R = 2,289.00'
T = 662.38'	T = 540.36'
L = 1,240.86'	L = 1,061.30'
E = 145.74'	E = 62.92'
e = 5.0%	e = 4.0%
T.R. = 39'	T.R. = 35'
S.E. RUN = 128'	S.E. RUN = 94'
P.C. STA. = 204+83.11	P.C. STA. = 769+22.10
P.T. STA. = 217+23.97	P.T. STA. = 779+83.40



CURVE NO.	e	A	B	C	D	E	TRANSITION
103	5.0%	203+60	203+98	204+36	204+83.11	205+26	TRANS. IN
		218+48	208+09	217+71	217+23.97	216+81	TRANS. OUT
9	4.0%	768+24	768+60	768+95	769+22.10	769+53	TRANS. IN
		780+81	780+46	780+11	779+83.40	779+52	TRANS. OUT



TYPICAL PROFILE - S.E. TRANSITION

IL 106

EXIST. CURVE 250
 PI STA. = 13+19.97
 $\Delta = 13^\circ 52' 18''$ (RT)
 $D = 6^\circ 00' 00''$
 $R = 954.93'$
 $T = 116.16'$
 $L = 231.19'$
 $e = 5.4\%$
 $T.R. = 38'$
 $S.E. RUN = 138'$
 $P.C. STA. = 12+03.81$
 $P.T. STA. = 14+35.00$

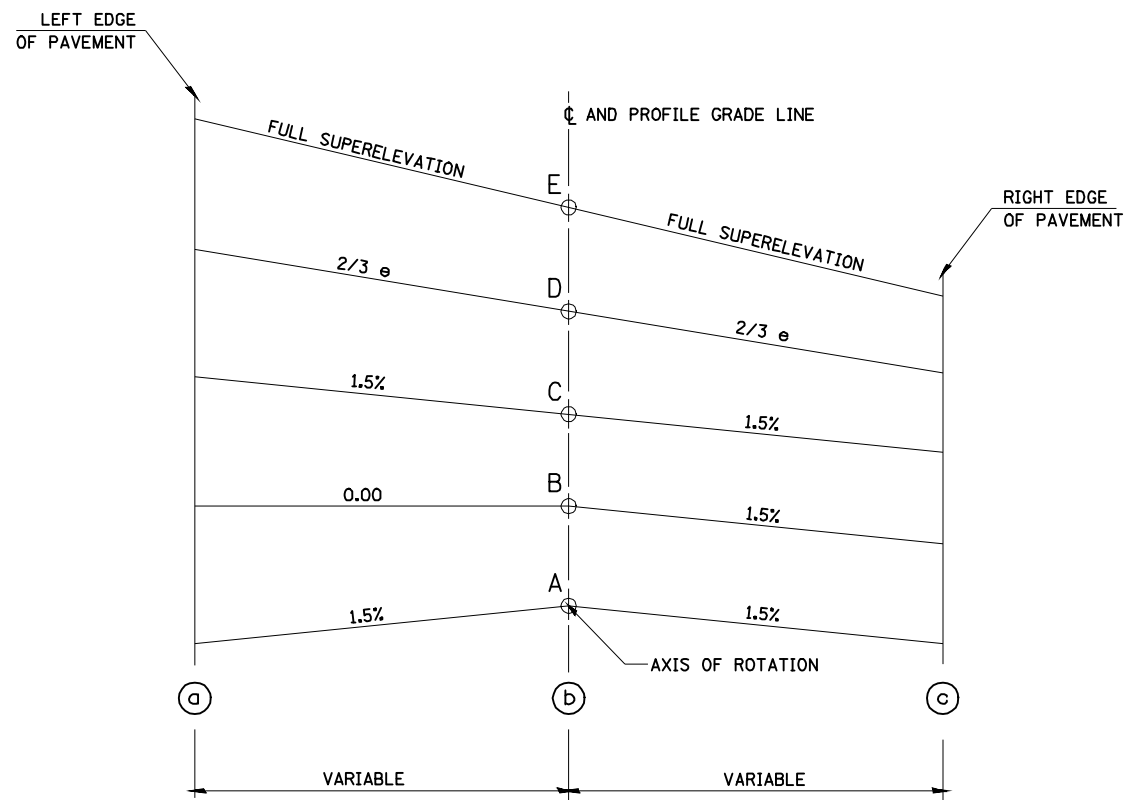


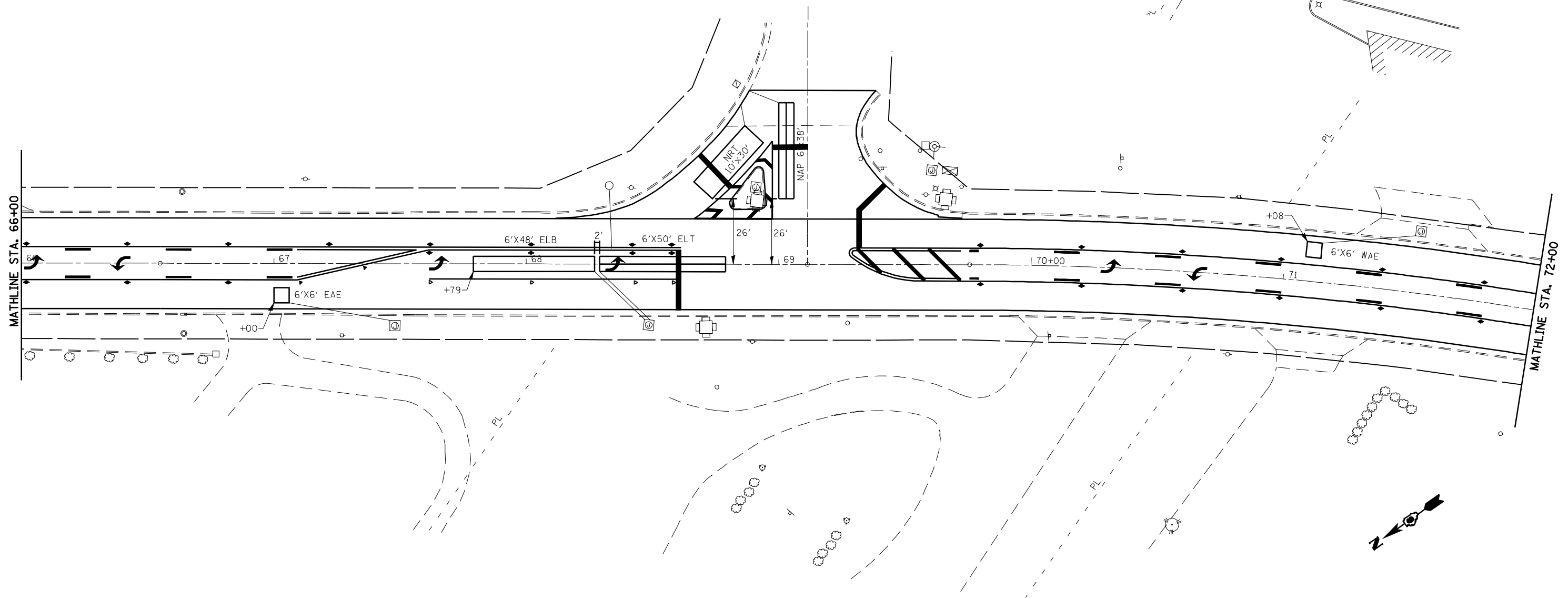
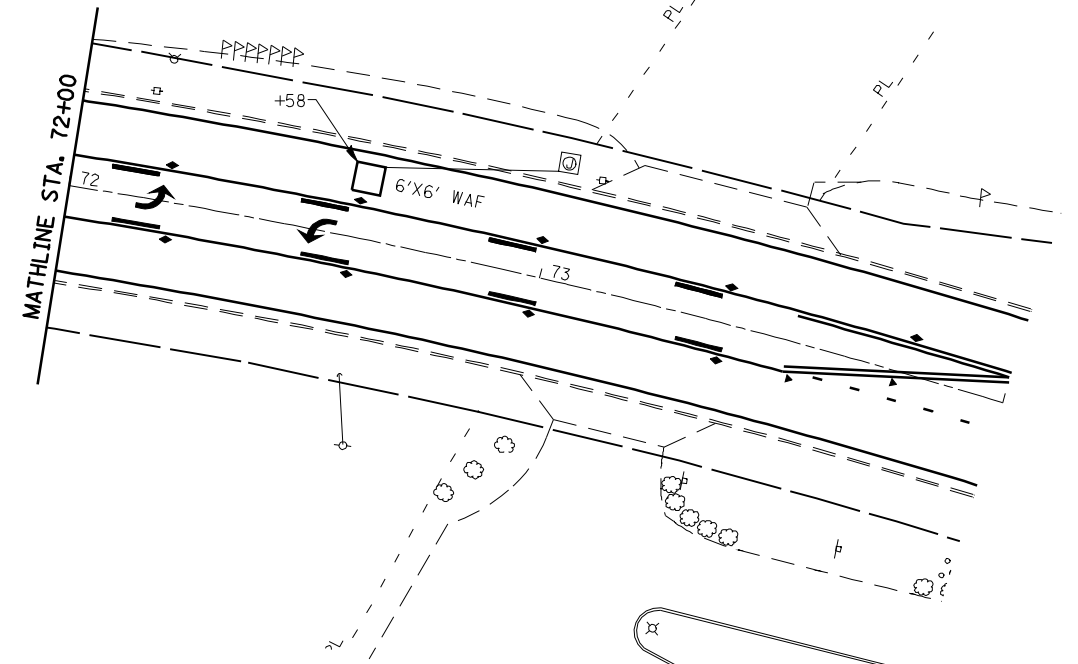
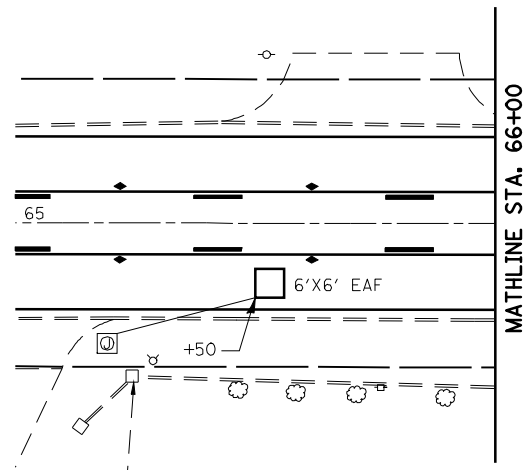
TABLE OF SUPERELEVATION BREAK POINT LOCATIONS

CURVE NO.	e	A	B	C	D	E	TRANSITION
250	5.4%	10+73	11+12	11+50	12+03.81	12+50	TRANS. IN
		15+65	15+27	14+89	14+35.00	13+89	TRANS. OUT

TRAFFIC SIGNAL QUANTITIES

US 54 & SHETLAND DR.

QUANTITY	UNIT	ITEM
775.0	FOOT	DETECTOR LOOP, TYPE 1



FILE NAME =	USER NAME = coxte	DESIGNED -	REVISED -
e:\pwwork\pwidot\COXTE\dms62284\072048-TS.dgn		DRAWN -	REVISED -
PLOT SCALE = 48.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Mar-11-2010 09:52:00AM		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

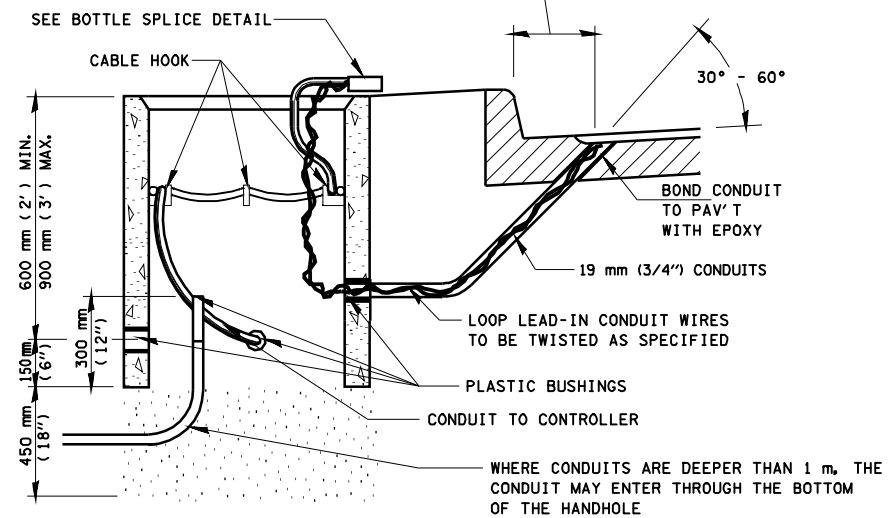
TRAFFIC SIGNAL DETECTOR LOOP PLAN

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

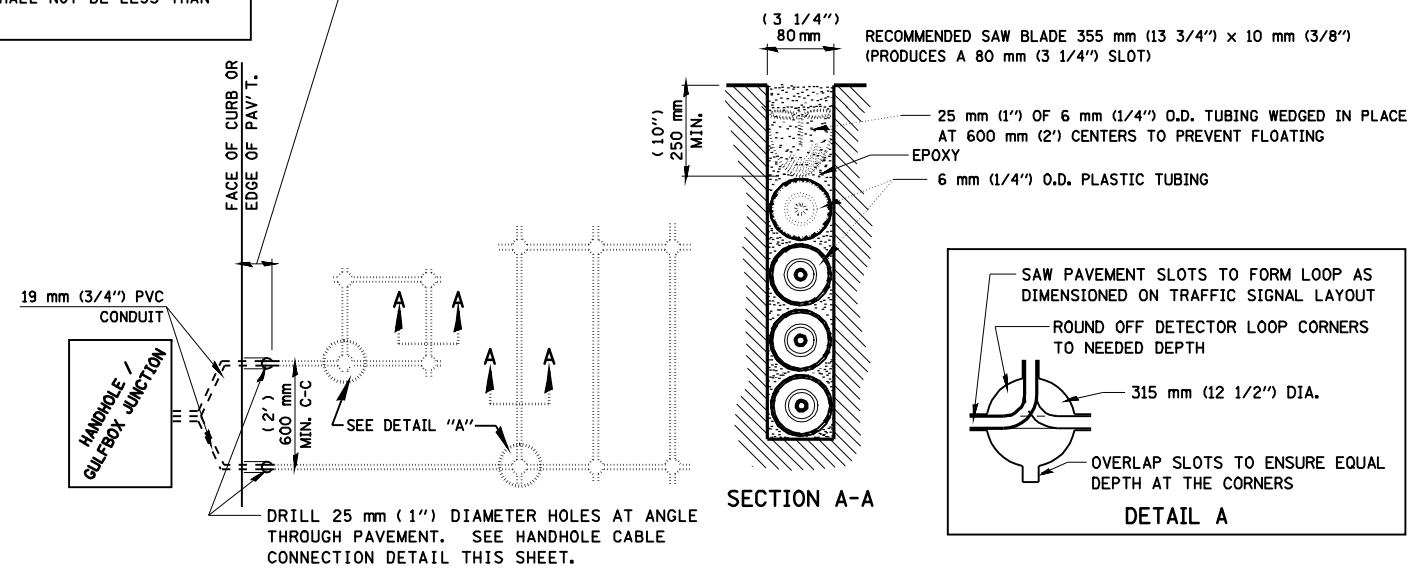
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	106RS-5, 18RS-11	PIKE	41	38
CONTRACT NO. 72C43				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LENGTH OF SLACK FOR LOOP LEAD-INS SHALL PROVIDE FOR MAKING THE SPLICE ON TOP OF THE HANDHOLE AND ONE COMPLETE LOOP OF THE INTERIOR OF THE HANDHOLE, THE SPLICE SHALL BE SUPPORTED BY A CABLE HOOK.

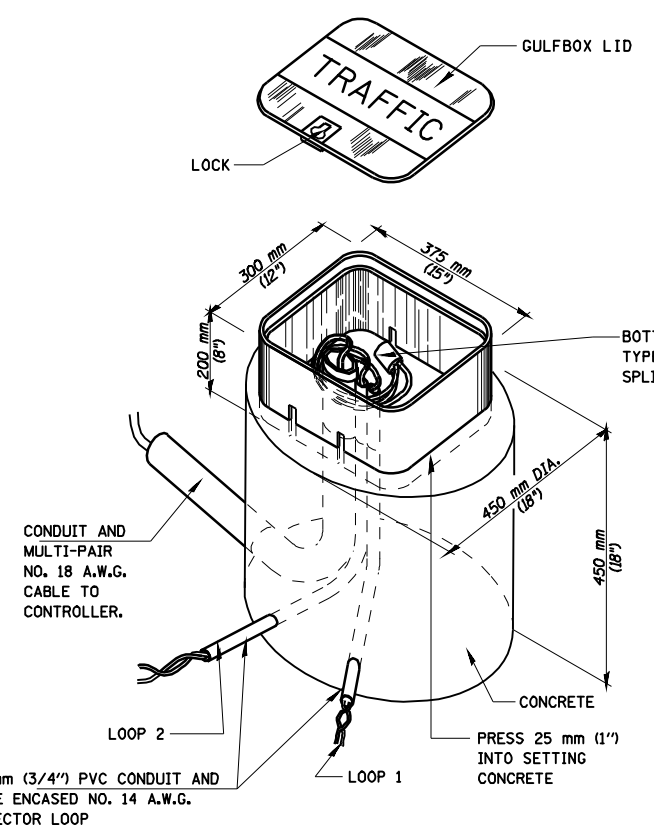
THE LOOP LEAD-IN CONDUIT HOLES SHALL BE PLACED AS CLOSE TO THE CURB AS POSSIBLE TO PERMIT SAW OVERLAP WITHOUT SCARRING FACE OF CURB.
IN NON-CURB LOCATIONS THE DISTANCE SHALL NOT BE LESS THAN 150 mm (6").



HANDHOLE CABLE CONNECTIONS

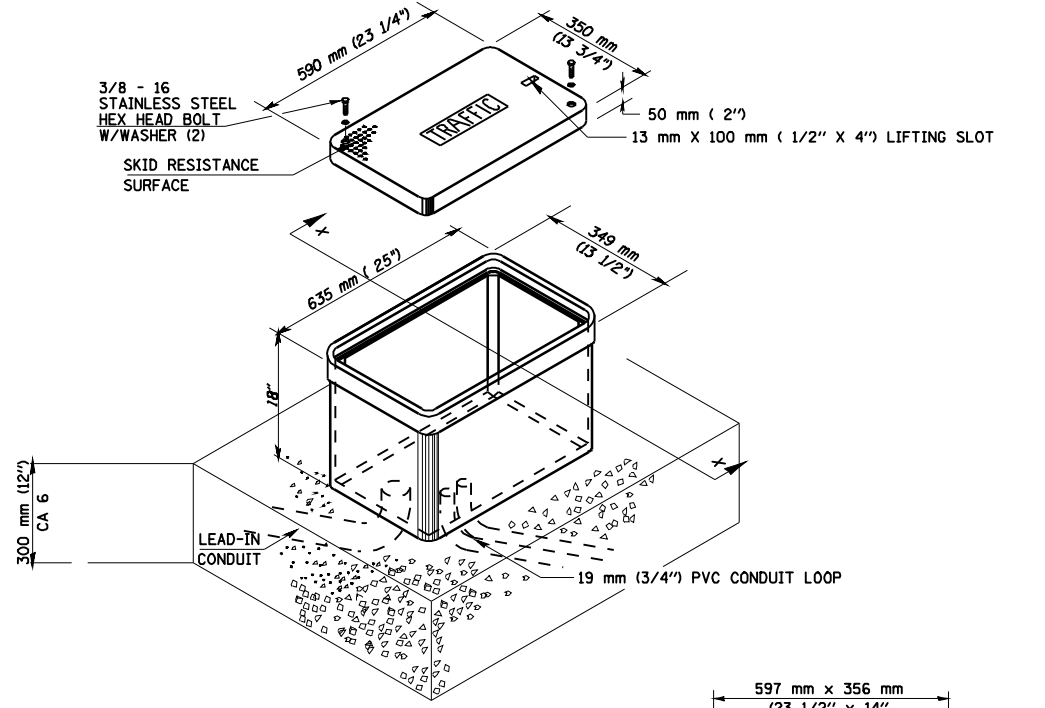


PAVEMENT SAWING DETAIL FOR TUBE ENCASED DETECTOR LOOP WIRE

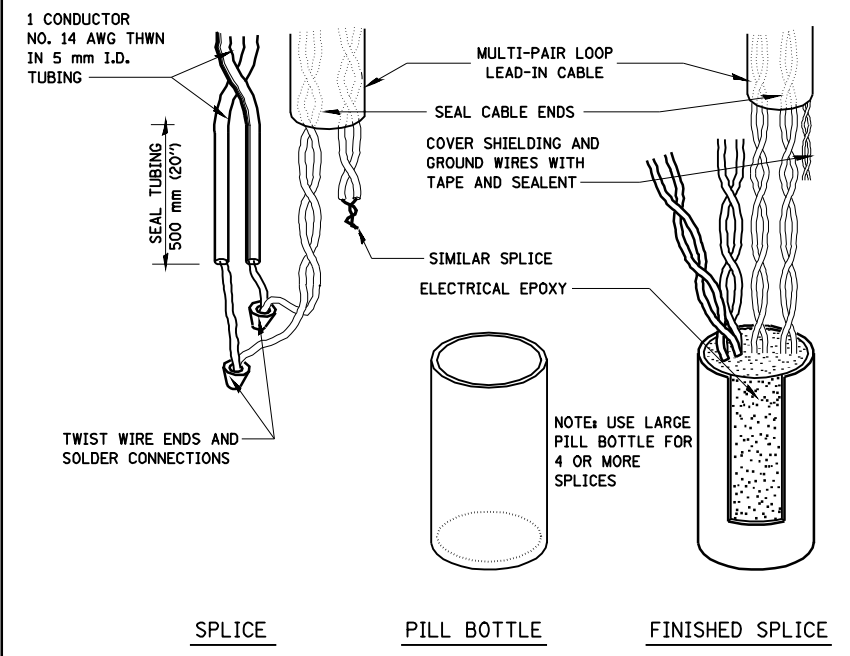


GULFBOX JUNCTION DETAIL

(SHOWING CONNECTION OF TUBE-ENCASED DETECTOR LOOP TO MULTI-PAIR LEAD-IN CABLE)



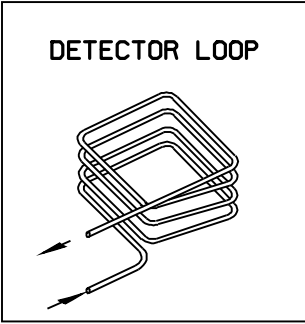
JUNCTION BOX (SPECIAL)



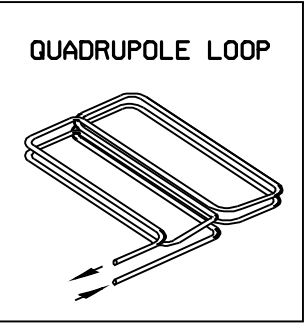
BOTTLE SPLICE DETAIL

LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER				LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER			
		CALCULATED		METERED		CALCULATED		METERED				CALCULATED		METERED		CALCULATED		METERED	
		$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω			$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω
EAF	4	144	0.43			188	6.81												
EAE	4	147	0.49			172	4.26												
ELB	2	186	0.73			203	3.22												
ELT	2-4-2	424	1.29			441	3.77												
WAE	4	146	0.46			166	3.48												
WAF	4	144	0.43			178	5.36												
NAP	2-4-2	325	0.96			338	2.86												
NRT	2	135	0.48			148	2.38												

DETECTOR LOOP



QUADRUPOLE LOOP



INSTALLING THE LOOP WIRE:
THE NEGATIVE LEAD SHALL BE CONNECTED TO THE BLACK CONDUCTOR OF A PAIR OF CONDUCTORS IN THE LEAD-IN CABLE AND THE POSITIVE LEAD SHALL BE CONNECTED TO THE COLOR-CODED CONDUCTOR OF THE CABLE PAIR.

DETECTOR LOOP WIRE INSTALLATION

- DETECTOR NOTES:
- THE DETECTOR LOOP SHALL BE CENTERED IN THE LANE IN WHICH IT IS SHOWN. ANY ADJUSTMENTS ARE TO BE MADE ONLY AT THE DIRECTION OF THE ENGINEER.
 - THE DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - ACCEPTANCE OF THE LOOPS AS METERED SHALL BE DETERMINED BY THE ENGINEER.
 - ALL DETECTOR WIRES SHALL BE MARKED WITH WATERPROOF LABELS USING THE WIRING IDENTIFICATION SHOWN ON THE PLANS. THE + AND - OF EACH LOOP MUST BE USED TO IDENTIFY CURRENT FLOW. ALWAYS CONNECT THE BLACK WIRE OF EACH PAIR TO THE NEGATIVE (-) LOOP WIRE.
 - ALL QUADRAPOLE LOOPS SHALL BE 2-4-2 DESIGN.

TRAFFIC SIGNAL PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		TEMPORARY SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTOR LOOP
		QUADRAPOLE DETECTOR LOOP
		SIGNAL POST
		ALUMINUM MAST ARM ASSEMBLY AND POLE
		STEEL MAST ARM ASSEMBLY AND POLE
		WOOD POLE
		WOOD POLE WITH GUY
		SERVICE INSTALLATION
		CONTROLLER
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		JUNCTION BOX
		GULFBOX JUNCTION
		AERIAL CABLE
		CONDUIT LENGTH - CONSTRUCTION (T=TRENCH P=PUSHED A=AUGERED E=EXISTING) SIZE - TYPE (S=STEEL P=PVC F=FIBER DUCT U=UNI-DUCT)
		CONDUIT SPLICE
		SPAN WIRE / TETHER WIRE
		SIDEWALK REMOVAL IN SQ M (SQ FT)
		PC CONC SDWLK 100 mm IN SQ M (SQ YD)
		PC CONC SDWLK 100 mm SPECIAL IN SQ M (SQ YD)

TRAFFIC SIGNAL WIRING DIAGRAM LEGEND

EXISTING	PROPOSED	DESCRIPTION
		200 mm (8") SIGNAL SECTION
		300 mm (12") SIGNAL SECTION
		DIRECTIONAL SIGNAL SECTION
		225 mm (9") PEDESTRIAN SIGNAL FACE
		300 mm (12") PEDESTRIAN SIGNAL FACE
		SIGNAL FACE WITH BACKPLATE
		PROGRAMMED SIGNAL SECTION
		SIGNAL SECTION WITH LOUVRE
		DUAL-INDICATION SIGNAL SECTION
		INDUCTION DETECTOR LOOP
		QUADRAPOLE DETECTOR LOOP
		DIRECT-CONNECTED LOOP LEAD-IN (TWISTED)
		ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS
		ELECTRIC CABLE TO BE REMOVED
		ELECTRIC CABLE IDENTIFIER TAPE CODES (R= RED W= WHITE Y= YELLOW G= GREEN B= BLUE O= ORANGE)
		PEDESTRIAN PUSHBUTTON DETECTOR
		VIDEO DETECTION CAMERA
		EMERGENCY VEHICLE PREEMPTOR

