

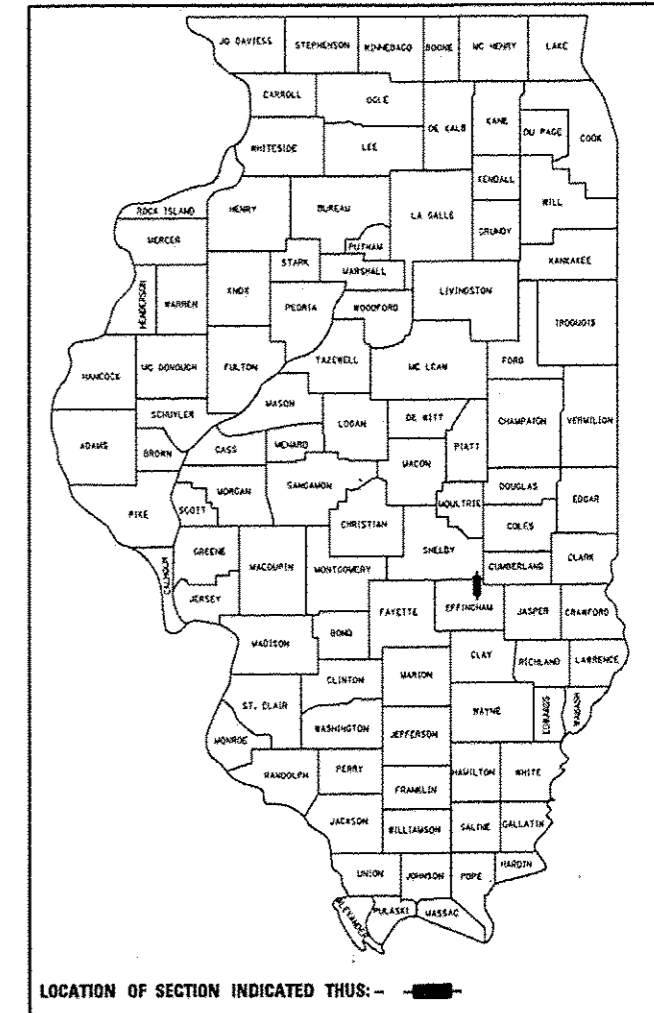
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

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

FAS ROUTE 1652 (US 45)
SECTION (13BY) B-1
PROJECT ACRS-1652 (001)
C-97-082-05
BRIDGE REPLACEMENT OVER GREEN CREEK
EFFINGHAM COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	1
		ILLINOIS	CONTRACT NO. 94698	

D-97-041-05



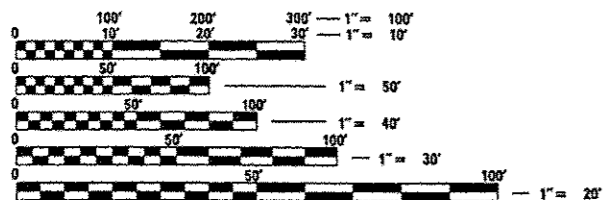
DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
 DESIGN SPEED: 60 MPH
 POSTED SPEED: 55 MPH
 ADT 3,550 (2013)
 PV 92.1%
 SU 4.3%
 MU 3.6%

END SECTION (13BY) B-1
 STA 266+24.30

STA 262+10 PR SN 025-2023
 CAST IN PLACE REINFORCED CONCRETE
 TRIPLE BOX CULVERT
 3 @ 12' X 12' SKEW = 0°
 64'-0" 0-0

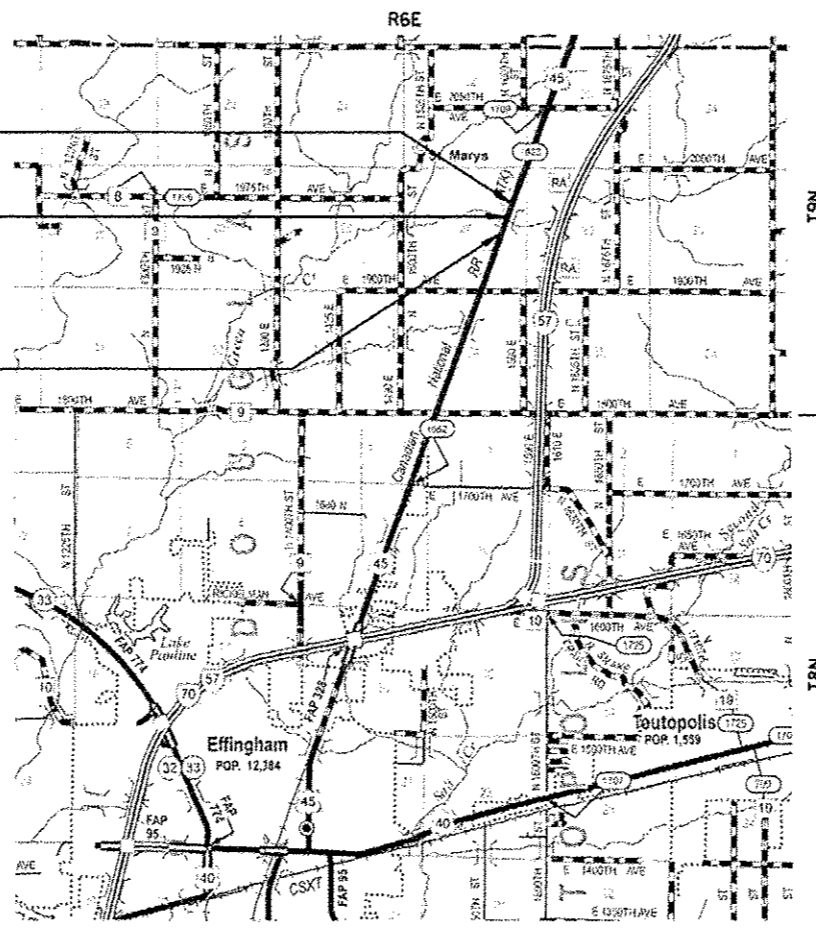
BEGIN SECTION (13BY) B-1
 STA 258+25.78



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

DISTRICT 7 NO. - (217) 342-3951
 PROJECT ENGINEER - MARK DAUGHERTY
 PROJECT MANAGER
 CONTRACT NO. 94698



SCALE IN MILES
 GROSS LENGTH = 798.52 FT. = 0.151 MILE
 NET LENGTH = 798.52 FT. = 0.151 MILE



Michael D. Cummins
 ILLINOIS PROFESSIONAL NO. 43244
 (Expires 11/30/15)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED August 13 20 15
Ray L. Dainhell
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 2 20 15
John D. Baranzelli PE, PE
 ENGINEER OF DESIGN AND ENVIRONMENT

Oct 2 20 15
Omer Osman PE, PE
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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GENERAL NOTES

- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE MINIMUM SAW DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITIONS AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HOT-MIX ASPHALT	112 LBS/SO YD/1" THICKNESS
AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 LB/SO FT
FOG COAT	0.025 LB/SO FT
ON AGGREGATE SURFACE	0.25 LB/SO FT
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2 (SPECIAL) ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ALL ELEVATIONS REFER TO U.S.G.S MEAN SEA LEVEL DATUM.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC, HMA SURFACE REMOVAL, PRIME COAT, AND HMA SURFACE COURSE.
- SHORT TERM PAVEMENT MARKING ON MILLED SURFACES SHALL BE PAINT.

- THE CONTRACTORS SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HMA PLANT QUALITY CONTROL LAB SO THAT HMA PLANT REPORTS CAN BE EMAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OR COVERED.
- AGGREGATE SURFACE COURSE TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION	US 45	US 45
MIXTURE USE:	BASE COURSE	SURFACE COURSE
AC/PG:	PG 64-22	PG 64-22
RAP% (MAX):	25%	10%
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0	IL-9.5
FRICTION AGGREGATE:	N/A	MIXTURE "D"

COMMITMENTS

THERE ARE NO COMMITMENTS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGE
542401-01	METAL END SECTIONS FOR PIPE CULVERTS
606201-02	TYPE B GUTTER (INLET, OUTLET, ENTRANCE)
630001-10	STEEL PLATE BEAM GUARD RAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/MHA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARD RAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL TYPE 2
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAIL
666001-01	RIGHT OF WAY MARKERS
701006-05	OFF ROAD OPERATIONS 2L 2W, 15FT TO 24" FROM PAVEMENT EDGE
701011-04	OFF ROAD MOVING OPERATIONS 2L 2W, DAY ONLY,
701201-04	LANE CLOSURE 2L 2W, DAY ONLY
701301-04	LANE CLOSURE 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L 2W, MOVING OPERATIONS DAY ONLY
701321-14	LANE CLOSURE 2L 2W, BRIDGE REPAIR BARRIER
701326-04	LANE CLOSURE 2L 2W, PAVEMENT WIDENING
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



JOB # 2223.4
 FILE NAME = 0794898-shc-gennote.dgn
 PLOT SCALE = 2.8800' / 1" = 1/8"
 PLOT DATE = 8/12/2015

DESIGNED - NAK	REVISIONS
DRAWN - AJH	REVISIONS
CHECKED - NAK	REVISIONS
DATE - 12/2/2011	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
 GENERAL NOTES

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

F.A.S. RTE. 1652	SECTION (13B) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 2
CONTRACT NO. 94698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION CODE				
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE				
				SN 025-2023				
				0011				
20100500	TREE REMOVAL, ACRES	ACRE	0.30	0.30				
20101000	TEMPORARY FENCE	FOOT	600	600				
20200100	EARTH EXCAVATION	CU YD	420	420				
20300100	CHANNEL EXCAVATION	CU YD	281	281				
20400800	FURNISHED EXCAVATION	CU YD	1,115	1,115				
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1,220	1,220				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60	60				
28000400	PERIMETER EROSION BARRIER	FOOT	1,695	1,695				
28000500	INLET AND PIPE PROTECTION	EACH	1	1				
28100107	STONE RIPRAP, CLASS A4	SQ YD	71	71				
28100109	STONE RIPRAP, CLASS A5	SQ YD	248	248				
28200200	FILTER FABRIC	SQ YD	319	319				
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	342	342				
35101400	AGGREGATE BASE COURSE, TYPE B	TON	23	23				



JOB # 2223.4
 FILE NAME = 0794698-shr1-req.dgn
 PLOT SCALE = 28.3200' / 1" =
 PLOT DATE = 8/12/2015

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 10/8/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.S. RTE. 1652	SECTION (13BY) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE				
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE				
				SN 025-2023 0011				
35501332	HOT-M X ASPHALT BASE COURSE, 12"	SQ YD	1,396	1,396				
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	80	80				
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	362	362				
40600990	TEMPORARY RAMP	SQ YD	27	27				
40603340	HOT-M X ASPHALT SURFACE COURSE, M X "D", N70	TON	34	34				
40800050	INCIDENTAL HOT-M X ASPHALT SURFACING	TON	14	14				
44000100	PAVEMENT REMOVAL	SQ YD	236	236				
44000155	HOT-M X ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	403	403				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	42	42				
44000400	GUTTER REMOVAL	FOOT	530	530				
44004250	PAVED SHOULDER REMOVAL	SQ YD	395	395				
48203029	HOT-M X ASPHALT SHOULDERS, 8"	SQ YD	81	81				
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1				
50105220	PIPE CULVERT REMOVAL	FOOT	46	46				



JOB # 2223.4
 FILE NAME * 0794698-sh1300.dgn
 PLOT SCALE = 28.0000' / 1" / in.
 PLOT DATE * 8/12/2019

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 10/8/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE				
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE				
				SN 025-2023				
				0011				
50800105	REINFORCEMENT BARS	POUND	61,530	61,530				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,350	1,350				
50800515	BAR SPLICES	EACH	256	256				
51500100	NAME PLATES	EACH	1	1				
54003000	CONCRETE BOX CULVERTS	CU YD	382.5	382.5				
60600095	CLASS II CONCRETE (OUTLET)	CU YD	6.5	6.5				
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	587.5	587.5				
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5				
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1				
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	7	7				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1				
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1				

* SPECIALTY ITEM

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB # 2223.4	DESIGNED - NAK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME * 0794698-ehf-soq.dgn	DRAWN - SJS	REVISED -			1652	(13B) B-1	EFFINGHAM	53	5
	PLOT SCALE * 20.0000' / 1" =	CHECKED - NAK	REVISED -			CONTRACT NO. 9469B				
	PLOT DATE * 8/12/2010	DATE - 10/8/2012	REVISED -	SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE						
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL						
				20% STATE						
				SN 025-2023						
				0011						
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1						
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4						
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1						
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	120	120						
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,170	2,170						
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	748	748						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	462.5	462.5						
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5						
70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	350	350						
70500500	TEMPORARY STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	50	50						
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2						
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2						
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,579	1,579						
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9						

* SPECIALTY ITEM



JOB # 2223.4
 FILE NAME # C794698-sh1.scdgn
 PLOT SCALE # 20:0000' / 1" = 1'

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 10/8/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13B) B-1	EFFINGHAM	53	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE				
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE				
				SN 025-2023 0011				
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	9	9				
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6				
78300100	PAVEMENT MARKING REMOVAL	SQ FT	876	876				
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	44	44				
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6				
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28				
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.6	0.6				
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	96	96				
X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2	2				
Z0028462	GEOTEXTILE RETAINING WALL	SQ FT	184	184				
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	785	785				

* SPECIALTY ITEM



JOB # 2223.4
 FILE NAME * 0794698-ans-100.dgn
 PLOT SCALE * 28.0000 / 1"
 PLOT DATE * 8/12/2015

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 10/8/2012

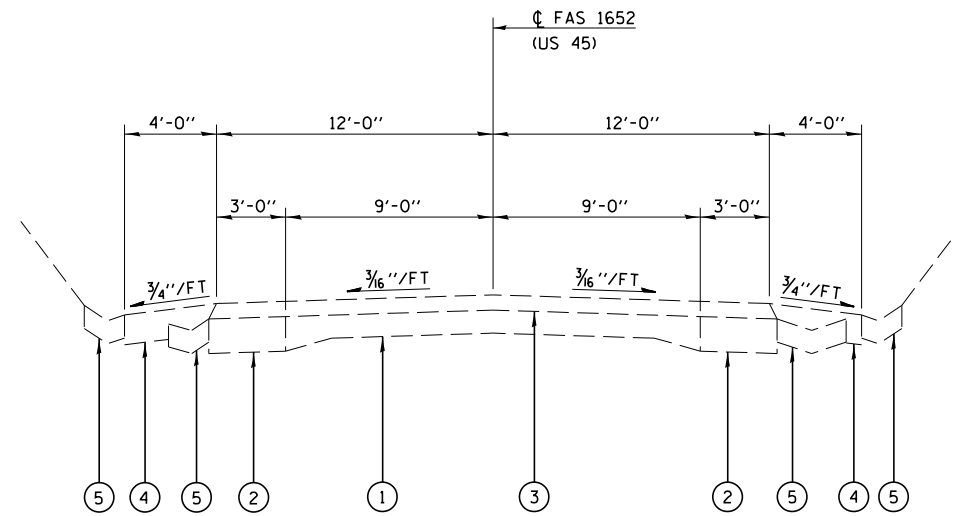
REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

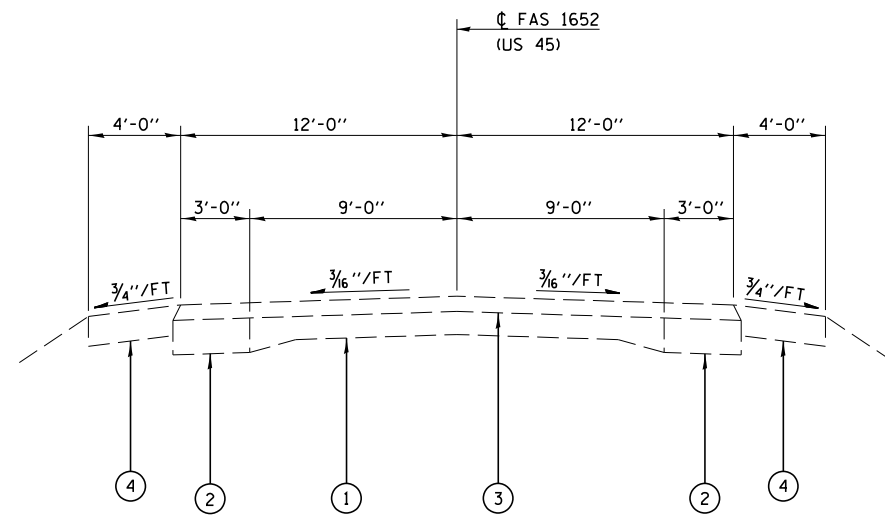
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE. 1652	SECTION (13B) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	



EXISTING TYPICAL CROSS SECTION

STA 258+25.78 TO STA 259+08
 RT STA 259+08 TO STA 260+34
 RT STA 263+20 TO STA 266+24.30

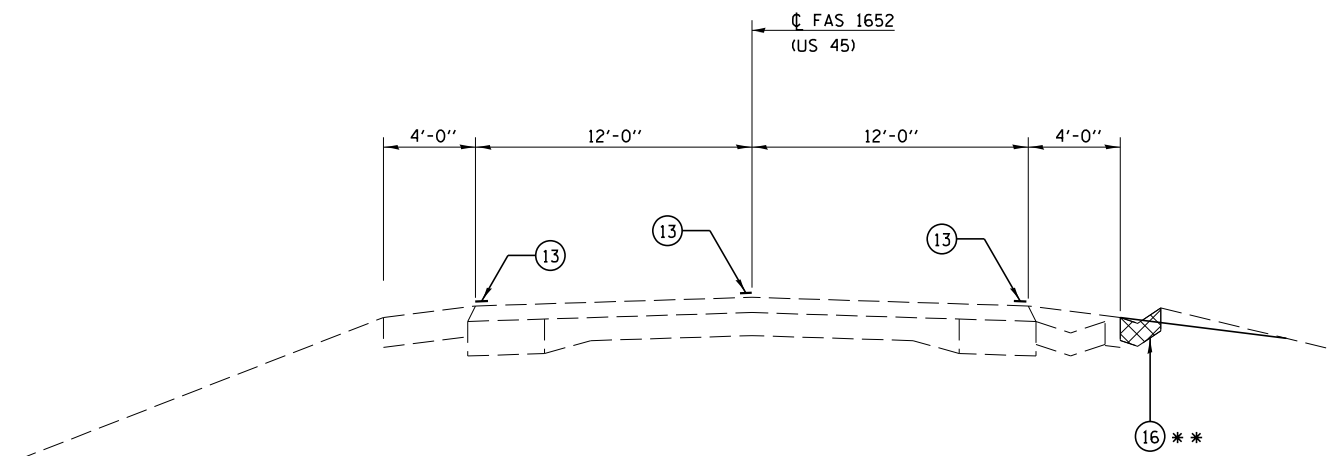


EXISTING TYPICAL CROSS SECTION

LT STA 259+08 TO STA 260+34
 STA 260+34 TO STA 261+88
 STA 262+31 TO STA 263+20
 LT STA 263+20 TO STA 266+24.30

BRIDGE OMISSION:
 STA 261+88 TO STA 262+31

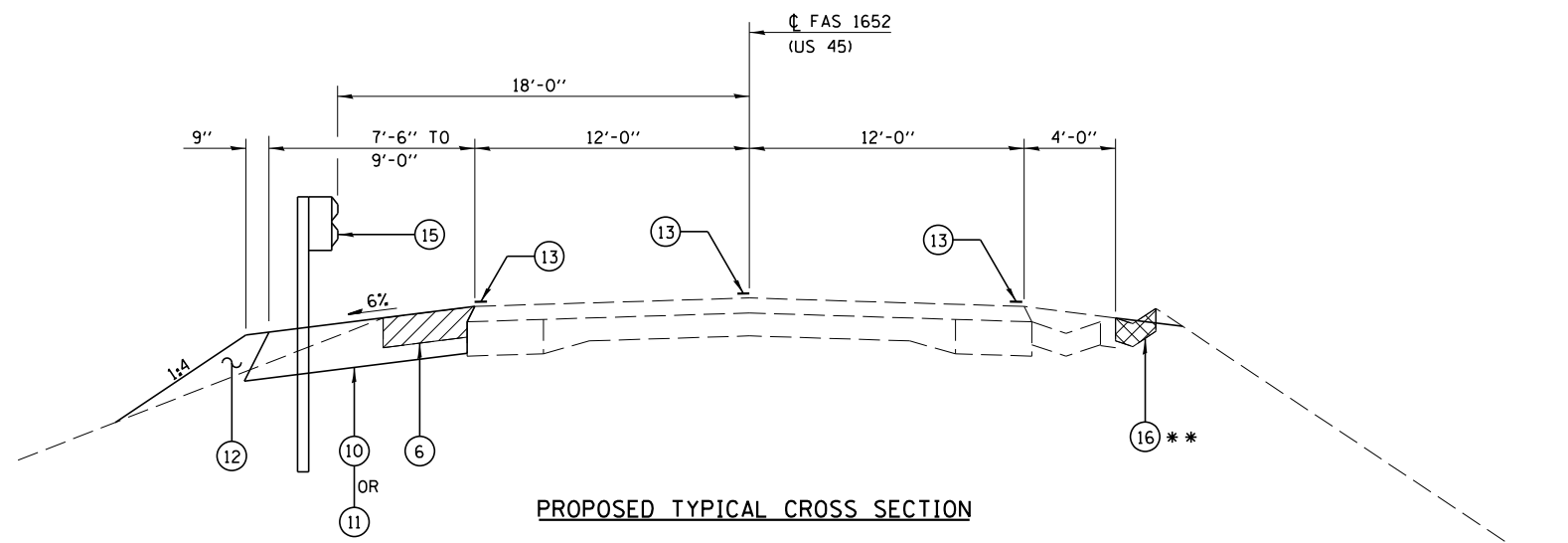
LEGEND	
①	EXISTING PCC PAVEMENT 9''-6''-9''
②	EXISTING PCC BASE COURSE 9''
③	EXISTING HMA SURFACE
④	EXISTING HMA SHOULDER
⑤	EXISTING CONCRETE GUTTER
⑥	PAVED SHOULDER REMOVAL
⑦	PAVEMENT REMOVAL
⑧	PROPOSED HMA SURFACE COURSE 1 1/2''
⑨	PROPOSED HMA SURFACE REMOVAL 1 1/2''
⑩	PROPOSED HMA BASE COURSE 12''
⑪	PROPOSED HMA BASE COURSE WIDENING 12''
⑫	PROPOSED EMBANKMENT
⑬	PROPOSED PAVEMENT MARKING LINE
⑭	PROPOSED SUB-BASE GRANULAR MATERIAL TY B 6''
⑮	PROPOSED STEEL PLATE BEAM GUARDRAIL 6' POSTS
⑯	PROPOSED GUTTER REMOVAL
⑰	PROPOSED HMA SHOULDER 8''



** CONSTRUCT GUTTER TRANSITION AND GUTTER OUTLET TYPE 1 FOR TYPE A CUTTER RT. STA. 258+25.75 TO STA. 258+76.30
 CONSTRUCT GUTTER TRANSITION AND GUTTER OUTLET TYPE 1 FOR TYPE A CUTTER RT. STA. 265+73.70 TO STA. 266+24.30

PROPOSED TYPICAL CROSS SECTION

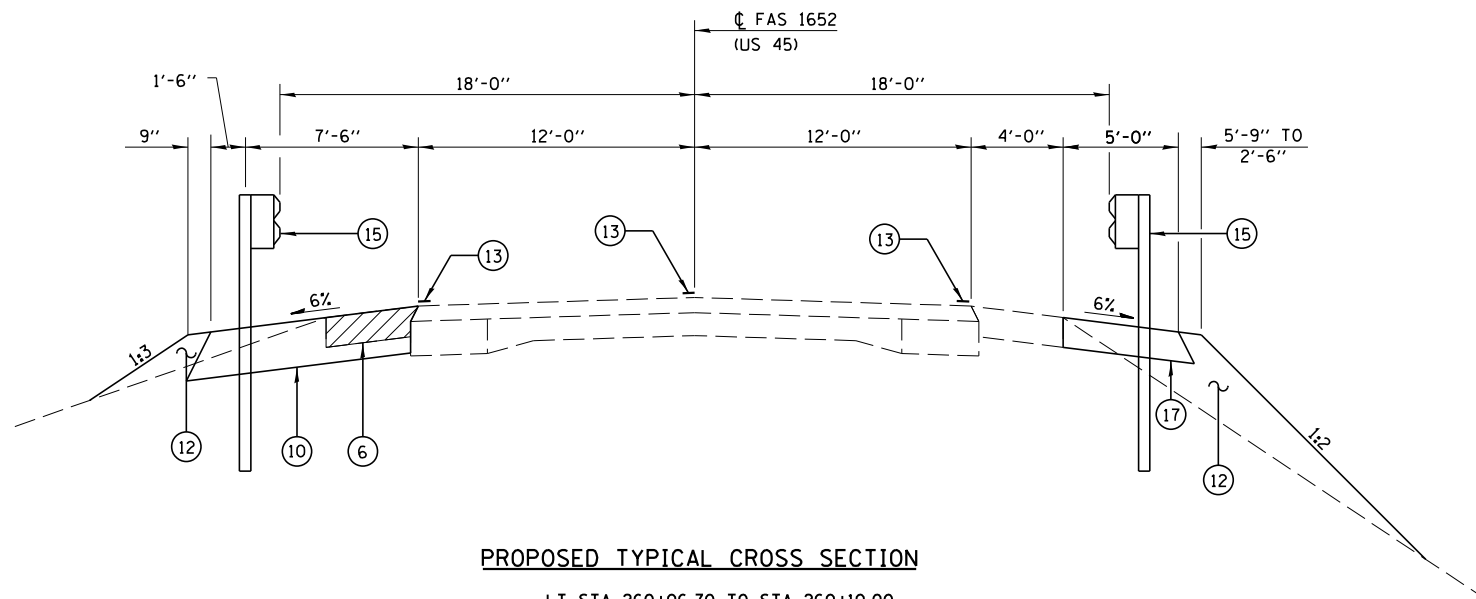
LT STA 259+16.30 TO STA 259+66.00
 RT STA 258+25.78 TO STA 259+25.00
 LT STA 264+52.00 TO STA 266+23.40



PROPOSED TYPICAL CROSS SECTION

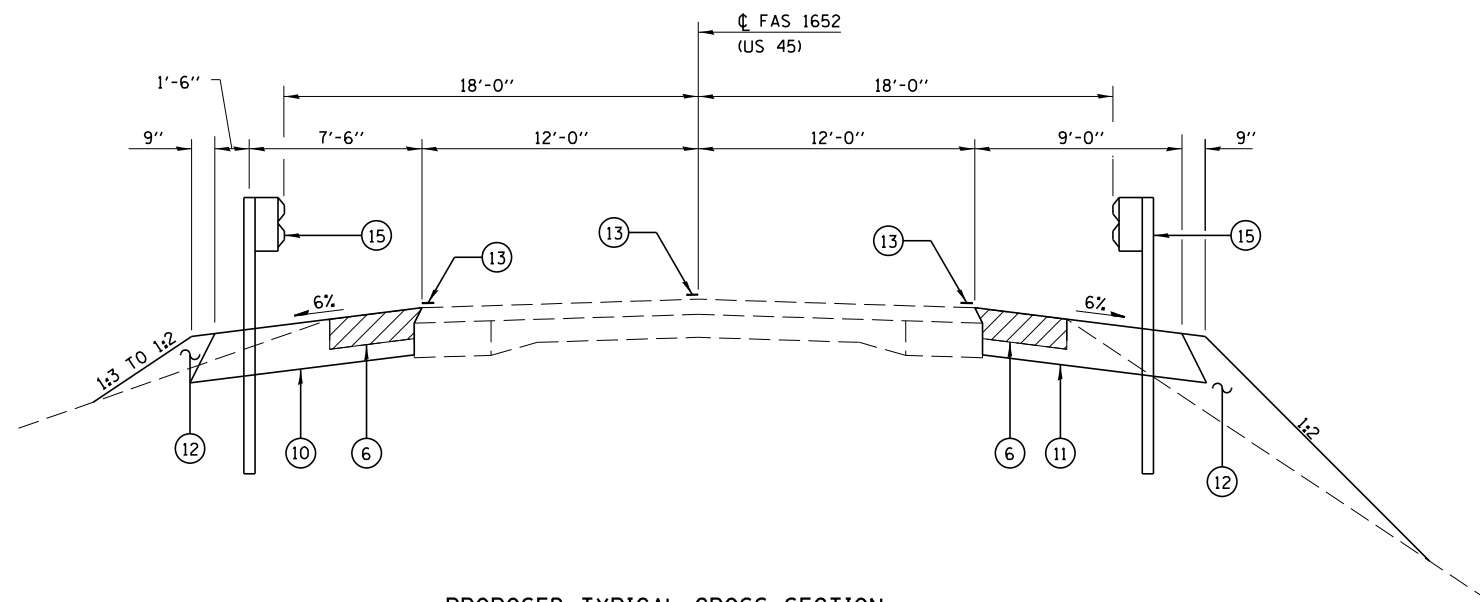
LT STA 259+66.00 TO STA 260+06.70
 RT STA 259+25.00 TO STA 259+64.40
 LT STA 263+08.80 TO STA 264+52.00
 RT STA 265+20.35 TO STA 266+24.30

LEGEND	
①	EXISTING PCC PAVEMENT 9''-6''-9''
②	EXISTING PCC BASE COURSE 9''
③	EXISTING HMA SURFACE
④	EXISTING HMA SHOULDER
⑤	EXISTING CONCRETE GUTTER
⑥	PAVED SHOULDER REMOVAL
⑦	PAVEMENT REMOVAL
⑧	PROPOSED HMA SURFACE COURSE 1 1/2''
⑨	PROPOSED HMA SURFACE REMOVAL 1 1/2''
⑩	PROPOSED HMA BASE COURSE 12''
⑪	PROPOSED HMA BASE COURSE WIDENING 12''
⑫	PROPOSED EMBANKMENT
⑬	PROPOSED PAVEMENT MARKING LINE
⑭	PROPOSED SUB-BASE GRANULAR MATERIAL TY B 6''
⑮	PROPOSED STEEL PLATE BEAM GUARDRAIL 6' POSTS
⑯	PROPOSED GUTTER REMOVAL
⑰	PROPOSED HMA SHOULDER 8''



PROPOSED TYPICAL CROSS SECTION

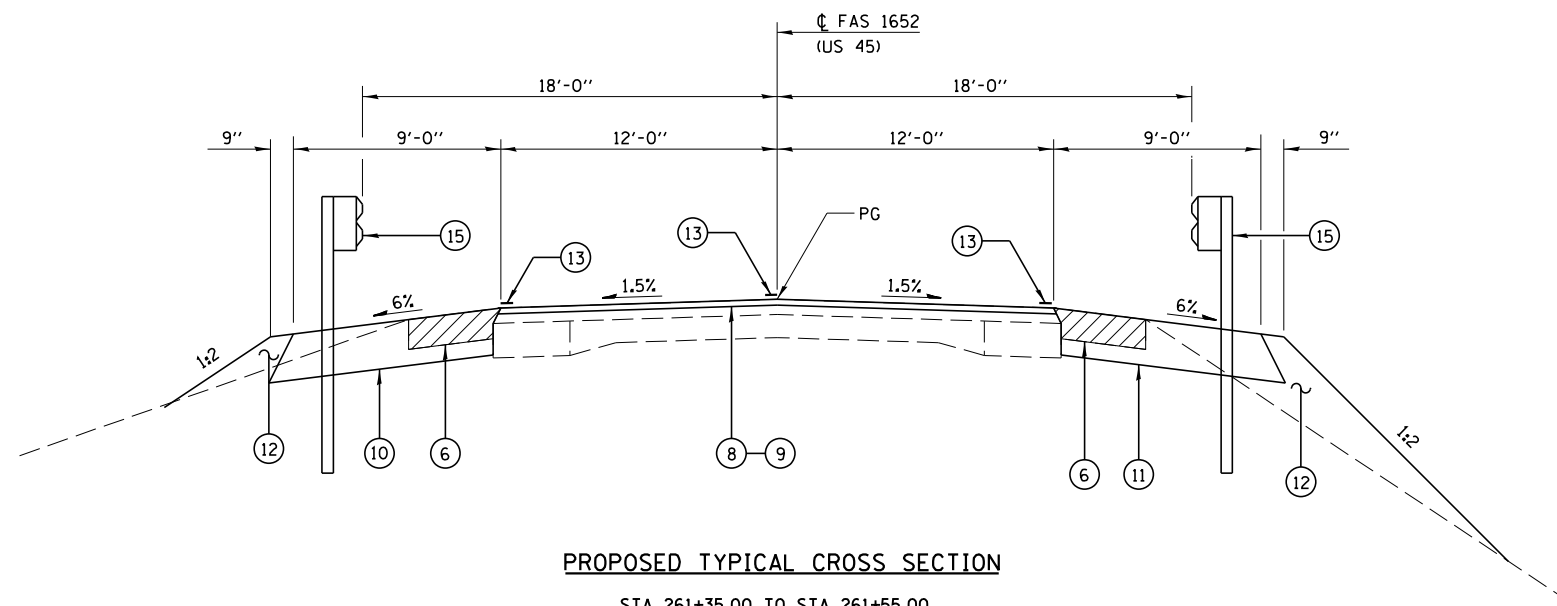
LT STA 260+06.70 TO STA 260+10.00
 RT STA 259+64.40 TO STA 260+10.00
 RT STA 264+13.00 TO STA 265+20.35



PROPOSED TYPICAL CROSS SECTION

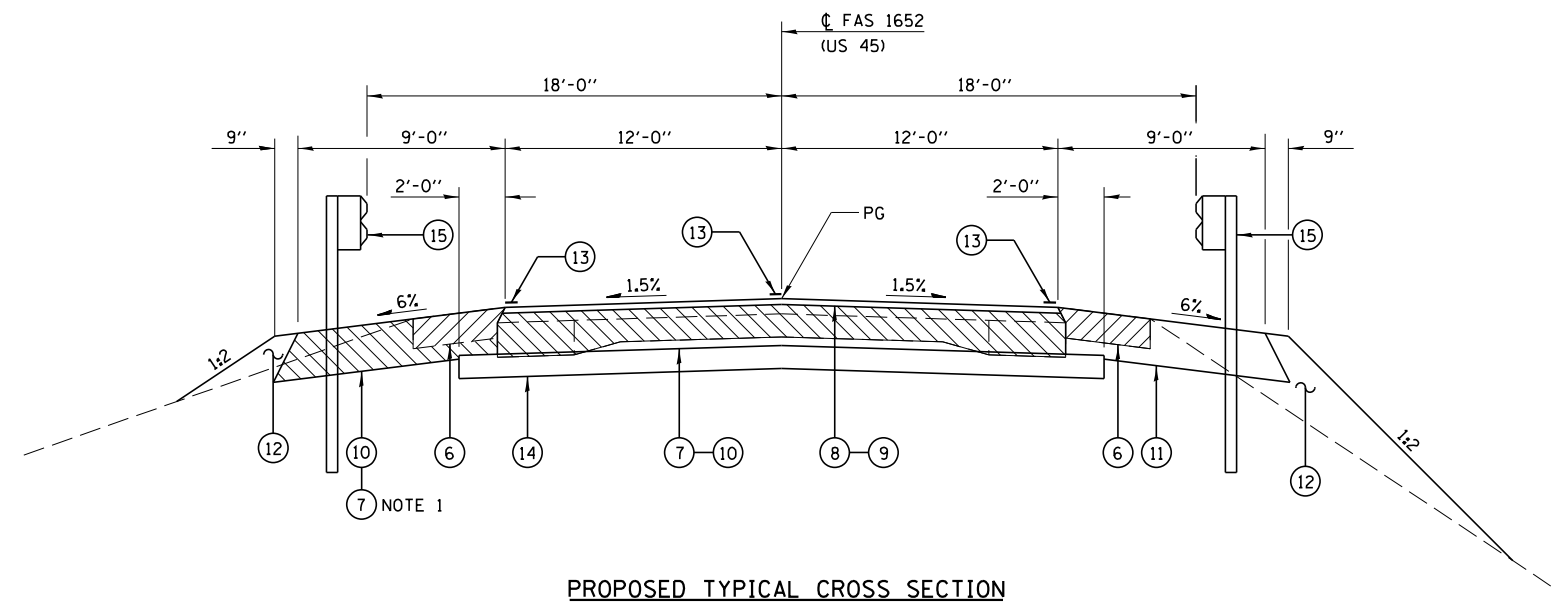
STA 260+10.00 TO STA 261+35.00
 STA 262+86.00 TO STA 263+06.00

LEGEND	
①	EXISTING PCC PAVEMENT 9''-6''-9''
②	EXISTING PCC BASE COURSE 9''
③	EXISTING HMA SURFACE
④	EXISTING HMA SHOULDER
⑤	EXISTING CONCRETE GUTTER
⑥	PAVED SHOULDER REMOVAL
⑦	PAVEMENT REMOVAL
⑧	PROPOSED HMA SURFACE COURSE 1 1/2''
⑨	PROPOSED HMA SURFACE REMOVAL 1 1/2''
⑩	PROPOSED HMA BASE COURSE 12''
⑪	PROPOSED HMA BASE COURSE WIDENING 12''
⑫	PROPOSED EMBANKMENT
⑬	PROPOSED PAVEMENT MARKING LINE
⑭	PROPOSED SUB-BASE GRANULAR MATERIAL TY B 6''
⑮	PROPOSED STEEL PLATE BEAM GUARDRAIL 6' POSTS
⑯	PROPOSED GUTTER REMOVAL
⑰	PROPOSED HMA SHOULDER 8''



PROPOSED TYPICAL CROSS SECTION

STA 261+35.00 TO STA 261+55.00
 STA 262+65.00 TO STA 262+86.00

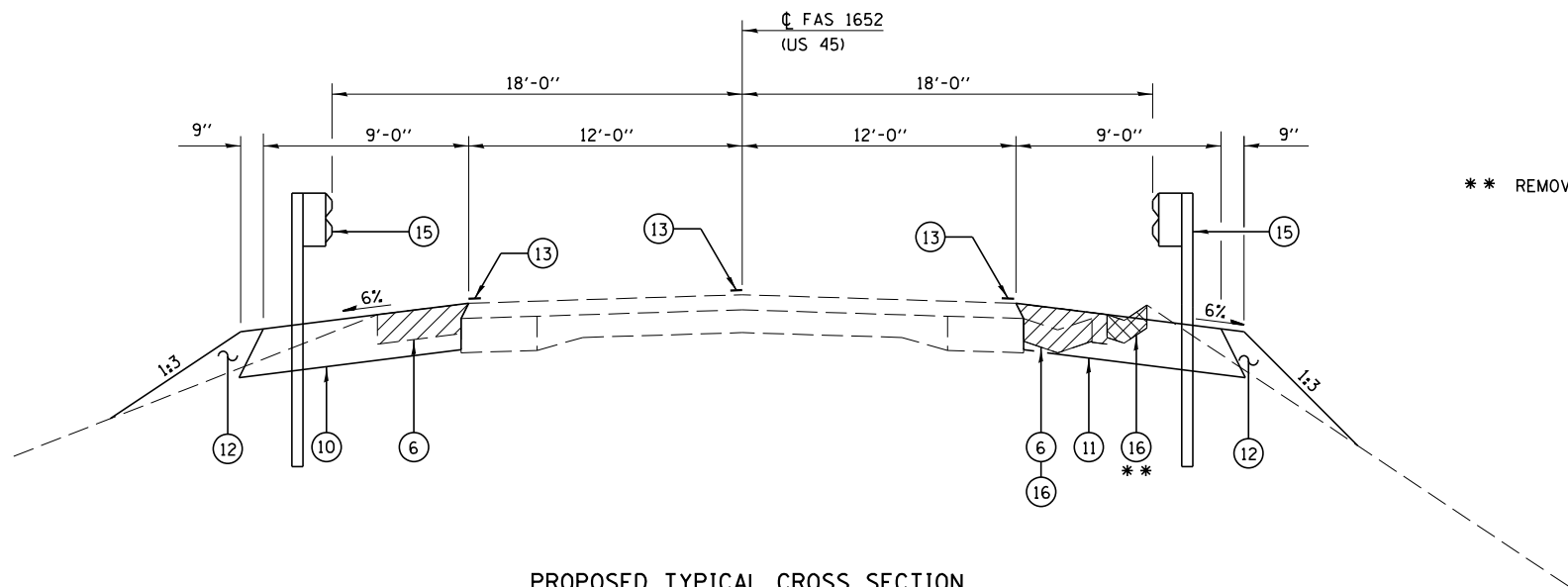


PROPOSED TYPICAL CROSS SECTION

STA 261+55.00 TO STA 262+65.00

NOTE 1: REMOVE HMA BASE COURSE CONSTRUCTED
 TO CARRY STAGE 1 TRAFFIC DURING
 STAGE 2 CONSTRUCTION.

LEGEND	
①	EXISTING PCC PAVEMENT 9''-6''-9''
②	EXISTING PCC BASE COURSE 9''
③	EXISTING HMA SURFACE
④	EXISTING HMA SHOULDER
⑤	EXISTING CONCRETE GUTTER
⑥	PAVED SHOULDER REMOVAL
⑦	PAVEMENT REMOVAL
⑧	PROPOSED HMA SURFACE COURSE 1 1/2''
⑨	PROPOSED HMA SURFACE REMOVAL 1 1/2''
⑩	PROPOSED HMA BASE COURSE 12''
⑪	PROPOSED HMA BASE COURSE WIDENING 12''
⑫	PROPOSED EMBANKMENT
⑬	PROPOSED PAVEMENT MARKING LINE
⑭	PROPOSED SUB-BASE GRANULAR MATERIAL TY B 6''
⑮	PROPOSED STEEL PLATE BEAM GUARDRAIL 6' POSTS
⑯	PROPOSED GUTTER REMOVAL
⑰	PROPOSED HMA SHOULDER 8''



** REMOVE EXISTING GUTTER RT STA 263+06 TO STA 264+13

PROPOSED TYPICAL CROSS SECTION
 LT STA 263+06.00 TO STA 263+08.80
 RT STA 263+06.00 TO STA 264+13.00

LEGEND	
①	EXISTING PCC PAVEMENT 9'-6"-9"
②	EXISTING PCC BASE COURSE 9"
③	EXISTING HMA SURFACE
④	EXISTING HMA SHOULDER
⑤	EXISTING CONCRETE GUTTER
⑥	PAVED SHOULDER REMOVAL
⑦	PAVEMENT REMOVAL
⑧	PROPOSED HMA SURFACE COURSE 1 1/2"
⑨	PROPOSED HMA SURFACE REMOVAL 1 1/2"
⑩	PROPOSED HMA BASE COURSE 12"
⑪	PROPOSED HMA BASE COURSE WIDENING 12"
⑫	PROPOSED EMBANKMENT
⑬	PROPOSED PAVEMENT MARKING LINE
⑭	PROPOSED SUB-BASE GRANULAR MATERIAL TY B 6"
⑮	PROPOSED STEEL PLATE BEAM GUARDRAIL 6' POSTS
⑯	PROPOSED GUTTER REMOVAL
⑰	PROPOSED HMA SHOULDER 8"

EARTHWORK

LOCATION	EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE		EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD		
LT STA 259+19 TO STA 265+00	125	95	125		-30
RT STA 258+25 TO STA 266+25	275	210	1,230		-1,020
ENTRANCE RT STA 259+42.4	20	15	0		15
ENTRANCE RT STA 262+62.15	0	0	80		-80
TOTAL	420	320	1,435		-1,115

SHRINKAGE = 25%
FURNISHED EXCAVATION = 1.115 CU YD

SEEDING, CLASS 2 (SPECIAL)

LOCATION	AREA SQ FT	QTY ACRE
LT STA 259+50 TO STA 266+00	6,470	0.15
RT STA 258+25 TO STA 259+25	880	0.02
RT STA 259+60 TO STA 266+25	18,730	0.43
TOTAL		0.6

TEMPORARY EROSION CONTROL SEEDING

LOCATION	AREA SQ FT	QTY POUNDS
LT STA 259+50 TO STA 266+00	6,470	15
RT STA 258+25 TO STA 259+25	880	2
RT STA 259+60 TO STA 266+25	18,730	43
TOTAL		60

PERIMETER EROSION BARRIER

LOCATION	QTY FOOT
LT STA 259+50 TO STA 261+76	235
LT STA 262+43 TO STA 265+00	262
RT STA 258+25 TO STA 259+25	290
RT STA 259+60 TO STA 261+76	246
RT STA 262+43 TO STA 262+50	105
RT STA 262+67 TO STA 266+25	557
TOTAL	1,695

INLET AND PIPE PROTECTION

LOCATION	QTY EACH
RT STA 263+03	1
TOTAL	1

STONE RIPRAP, CLASS A4

LOCATION	STONE RIPRAP, CLASS A4	FILTER FABRIC
	SQ YD	SQ YD
RT STA 258+59 TO STA 258+75	27.56	27.56
RT STA 265+61 TO STA 265+90	43.44	43.44
TOTAL	71.00	71.00

SUB-BASE GRANULAR MATERIAL, TYPE B 6"

LOCATION	WIDTH FOOT	QTY SQ YD
STAGE 1		
STA 261+55 TO STA 262+65	11	134.44
STAGE 2		
STA 261+55 TO STA 262+65	17	207.78
TOTAL		342.22

HOT-MIX ASPHALT BASE COURSE, 12"

LOCATION	WIDTH FOOT	QTY SQ YD
PRE-STAGE 1		
LT STA 259+66.00 TO STA 260+20.00	7.5	45.00
LT STA 260+20.00 TO STA 260+23.00	7.5 TO 9	2.75
LT STA 260+23.00 TO STA 264+52.00	9	429.00
LT STA 264+52.00 TO STA 264+62.20	5' TO 0'	2.83
STAGE 1		
RT STA 260+10.00 TO STA 264+13.00	9.0	403.00
RT STA 261+55.00 TO STA 262+65.00	19.5	238.33
STAGE 2		
LT STA 261+55.00 TO STA 262+65.00	22.5	275.00
TOTAL		1,395.91

AGGREGATE SURFACE COURSE, TYPE B

LOCATION	WIDTH FOOT	QTY TON
STAGE 1		
RT STA 263+00.00	16 to 10	79.45
TOTAL		79.45

BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	WIDTH FOOT	QTY POUND
STA 261+35 TO STA 262+86	24	181.20
STA 259+42	54.5-33.5	149.27
STA 263+00	16	31.20
TOTAL		361.67

TEMPORARY RAMP

LOCATION	WIDTH FOOT	QTY SQ YD
STA 261+35 TO STA 261+40	24	13.33
STA 262+81 TO STA 262+86	24	13.33
TOTAL		26.66

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

LOCATION	WIDTH FOOT	QTY TON
STA 261+35 TO STA 262+86	24	33.82
TOTAL		33.82

AGGREGATE BASE COURSE TYPE B

LOCATION	WIDTH FOOT	QTY TON
STA 259+42	54.5-33.5	22.67
TOTAL		22.67

INCIDENTAL HOT-MIX ASPHALT SURFACING

LOCATION	WIDTH FOOT	QTY TON
STA 259+42	54.5-33.5	11.15
STA 263+00	16	2.33
TOTAL		13.48

HOT-MIX ASPHALT SHOULDERS, 8"

LOCATION	WIDTH FOOT	QTY SQ YD
STAGE 1		
RT STA 259+64.40 TO STA 260+10.00	9.2' TO 5'	35.97
RT STA 264+13.00 TO STA 264+88.25	5'	41.81
RT STA 264+88.25 TO STA 264+98.25	5' TO 0'	2.78
TOTAL		80.56

TREE REMOVAL, ACRES

LOCATION	QTY ACRE
STAGE 1	
RT STA 259+50.00 TO STA 261+90.00	0.23
STAGE 2	
LT STA 261+50.00 TO STA 262+80.00	0.07
TOTAL	0.30

PAVEMENT REMOVAL

LOCATION	WIDTH FOOT	QTY SQ YD
STAGE 1		
RT STA 261+55.00 TO STA 261+88.75	17.5	65.63
RT STA 262+31.25 TO STA 262+65.00	17.5	65.63
STAGE 2		
LT STA 261+55.00 TO STA 261+88.75	14	52.50
LT STA 262+31.25 TO STA 262+65.00	14	52.50
TOTAL		236.26

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"

LOCATION	WIDTH FOOT	QTY SQ YD
STA 261+35 TO STA 262+86	24	402.67
TOTAL		402.67

DRIVEWAY PAVEMENT REMOVAL

LOCATION	WIDTH FOOT	QTY SQ YD
STA 259+20 TO STA 259+65	46 - 33.5	42.18
TOTAL		42.18

GUTTER REMOVAL

LOCATION	QTY FOOT
RT STA 258+25.00 TO STA 260+37.00	212.00
RT STA 263+06.00 TO STA 266+24.30	318.30
TOTAL	530.30

PAVED SHOULDER REMOVAL

LOCATION	WIDTH FOOT	QTY SQ YD
LT STA 259+66.00 TO STA 264+52.00	4	216.00
RT STA 260+10.00 TO STA 264+13.00	4	179.11
TOTAL		395.11

PIPE CULVERT REMOVAL

LOCATION	QTY FOOT
RT STA 262+56.00	46
TOTAL	46

CLASS SI CONCRETE (OUTLET)

LOCATION	QTY CU YD
STAGE 1	
RT STA 258+25.78 TO STA 258+68.85	3.25
RT STA 265+79.90 TO STA 266+24.30	3.28
TOTAL	6.53

PIPE CULVERTS, CLASS D, TYPE 1 18"

LOCATION	QTY FOOT
STAGE 1	
RT STA 9+25.00	44
TOTAL	44

STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS

LOCATION	QTY FOOT
STAGE 1	
RT STA 260+19.80 TO STA 262+19.80	200.0
RT STA 263+73.76 TO STA 264+36.25	62.5
STAGE 2	
LT STA 260+75.00 LT STA 264+00.00	325.0
TOTAL	587.5

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION	QTY EACH
STAGE 1	
RT STA 262+19.80 TO STA 262+69.80	1
RT STA 263+23.76 TO STA 263+73.76	1
RT STA 264+36.25 TO STA 264+86.25	1
STAGE 2	
LT STA 260+25.00 LT STA 260+75.00	1
LT STA 264+00.00 LT STA 264+50.00	1
TOTAL	5

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED

LOCATION	QTY EACH
STAGE 1	
RT STA 259+70.25 TO STA 260+19.80	1
TOTAL	1

GUARDRAIL MARKERS, TYPE A

LOCATION	QTY EACH
STAGE 1	
RT STA 260+19.80 TO STA 262+19.80	3
RT STA 263+73.76 TO STA 264+36.25	1
STAGE 2	
LT STA 260+75.00 LT STA 264+00.00	5
TOTAL	9

TERMINAL MARKER - DIRECT APPLIED

LOCATION	QTY EACH
STAGE 1	
RT STA 259+70.25	1
RT STA 262+69.80	1
RT STA 263+23.76	1
RT STA 264+86.25	1
STAGE 2	
LT STA 260+25.00	1
LT STA 264+50.00	1
TOTAL	6

TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

LOCATION	QTY EACH
STAGE 1	
LT STA 259+58.97 TO STA 260+08.97	1
LT STA 264+09.01 TO STA 264+59.01	1
TOTAL	2

TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A

LOCATION	QTY FOOT
STAGE 1	
LT STA 260+08.97 LT STA 261+84.01	175.0
LT STA 262+34.01 LT STA 264+09.01	175.0
TOTAL	350.0

TEMPORARY STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES

LOCATION	QTY FOOT
STAGE 1	
LT STA 261+84.01 LT STA 262+34.01	50.0
TOTAL	50.0

SHORT-TERM PAVEMENT MARKING

LOCATION	QTY FOOT
FINAL PHASE	
INITIAL OPENING	
STA 258+28.75 TO STA 265+28.25	72
HMA SURFACE REMOVAL	
STA 261+35.00 TO STA 262+86.00	16
BITUMINOUS MATERIALS (PRIME COAT)	
STA 261+35.00 TO STA 262+86.00	16
HMA SURFACE COURSE	
STA 261+35.00 TO STA 262+86.00	16
TOTAL	120

WORK ZONE PAVEMENT MARKING REMOVAL

LOCATION	QTY SQ FT
STAGE 2	
LT STA 259+88.72 TO STA 264+43.25	151.51
RT STA 258+38.75 TO STA 265+43.25	234.83
FINAL PHASE	
LT STA 259+18.50 TO STA 265+45.25	208.92
RT STA 260+17.10 TO STA 264+01.75	128.22
STA 258+28.75 TO STA 265+28.25	24.00
TOTAL	747.48

PAINT PAVEMENT MARKING - LINE 4"

LOCATION	QTY FOOT
FINAL PHASE	
SOLID WHITE EDGE LINE	
LT STA 258+28.75 TO STA 265+28.25	699.50
RT STA 258+28.75 TO STA 265+28.25	699.50
YELLOW SKIP DASH	
STA 258+28.75 TO STA 265+28.25	180.00
TOTAL	1,579.00

RAISED REFLECTIVE PAVEMENT MARKER

LOCATION	QTY EACH
FINAL PHASE	
STA 258+28.75 TO STA 265+28.25	9
TOTAL	9

TEMPORARY PAVEMENT MARKING - LINE 4"

LOCATION	QTY FOOT
STAGE 1	
SOLID WHITE EDGE LINE	
LT STA 259+88.72 TO STA 264+43.25	454.53
RT STA 258+38.75 TO STA 265+43.25	704.50
STAGE 2	
SOLID WHITE EDGE LINE	
LT STA 259+18.50 TO STA 265+45.25	626.75
RT STA 260+17.10 TO STA 264+01.75	384.65
TOTAL	2,170.43

PAVEMENT MARKING REMOVAL

LOCATION	QTY SQ FT
STAGE 1	
EDGE LINE	
LT STA 259+88.72 TO STA 264+43.25	454.53
CENTERLINE SKIP DASH	
STA 258+28.75 TO STA 260+00.00	16.67
STA 264+00.00 TO STA 266+03.25	20.00
STAGE 2	
EDGE LINE	
RT STA 260+17.10 TO STA 264+01.75	384.65
TOTAL	875.85

TEMPORARY CONCRETE BARRIER

LOCATION	QTY FOOT
STAGE 1	
STA 259+79.12 TO STA 261+28.75	12:1 TAPER 150.0
STA 261+28.75 TO STA 262+91.25	TANGENT 162.5
STA 262+91.25 TO STA 264+40.75	12:1 TAPER 150.0
TOTAL	462.5

RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION	QTY FOOT
STAGE 2	
STA 260+16.48 TO STA 261+28.75	12:1 TAPER 112.5
STA 261+28.75 TO STA 262+91.25	TANGENT 162.5
STA 262+91.25 TO STA 264+03.50	12:1 TAPER 112.5
TOTAL	387.5

IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

LOCATION	QTY EACH
STAGE 1	
STA 259+79.12	1
STA 264+40.75	1
TOTAL	2

IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

LOCATION	QTY EACH
STAGE 2	
STA 260+16.48	1
STA 264+03.50	1
TOTAL	2

FURNISHING AND ERECTING RIGHT OF WAY MARKERS

LOCATION	QTY EACH
33' RT STA 257+00.00	1
90' RT STA 260+50.00	1
90' RT STA 261+30.76	1
90' RT STA 263+25.00	1
60' RT STA 263+50.00	1
60' RT STA 266+00.00	1
43' RT STA 267+00.00	1
TOTAL	7



JOB = 2223.4
 FILE NAME = 0794698-sht-sched.dgn
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 8/12/2015

DESIGNED - NAK
 DRAWN - AJH
 CHECKED - NAK
 DATE - 11/21/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

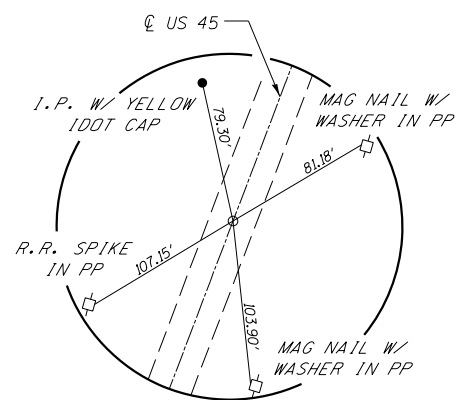
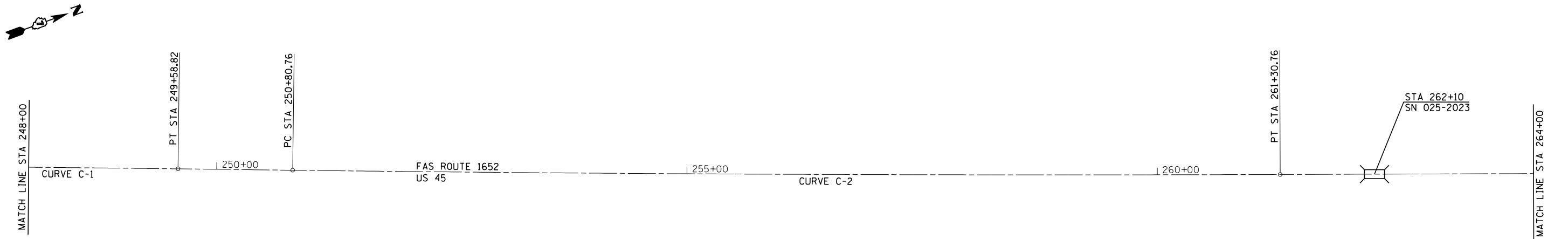
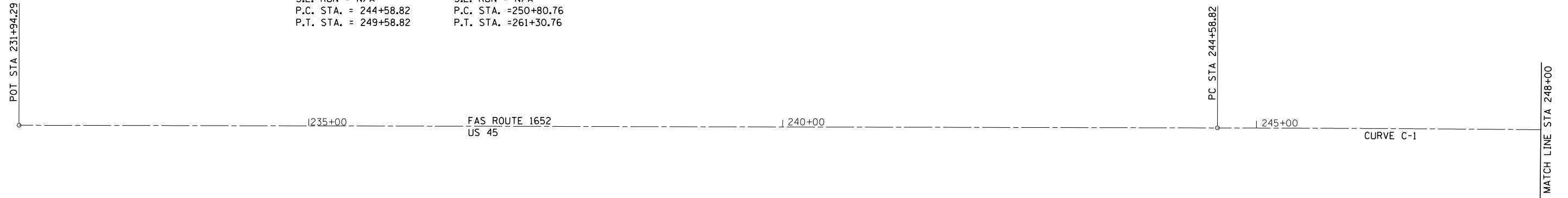
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13B) B-1	EFFINGHAM	53	14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

CURVE C-1
 PI STA. = 247+08.82
 $\Delta = 0^\circ 33' 58''$ (RT)
 $D = 0^\circ 06' 48''$
 $R = 50,607.58'$
 $T = 250.00'$
 $L = 500.00'$
 $E = 0.62'$
 $e =$ NORMAL CROWN
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 244+58.82
 P.T. STA. = 249+58.82

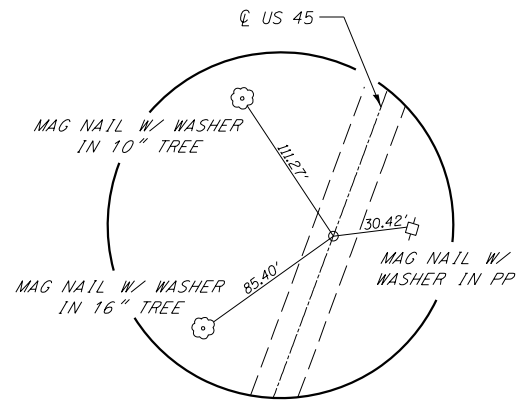
CURVE C-2
 PI STA. = 256+05.77
 $\Delta = 0^\circ 53' 42''$ (LT)
 $D = 0^\circ 05' 07''$
 $R = 67,224.30'$
 $T = 525.01'$
 $L = 1,050.00'$
 $E = 2.05'$
 $e =$ NORMAL CROWN
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 250+80.76
 P.T. STA. = 261+30.76

BM #602 R.R. SPIKE IN PP 55' W OF THE ϕ OF US 45
 $\pm 2200'$ NORTH OF COUNTY RD 1900N
 56' LT STA 249+90
 ELEV. 621.27

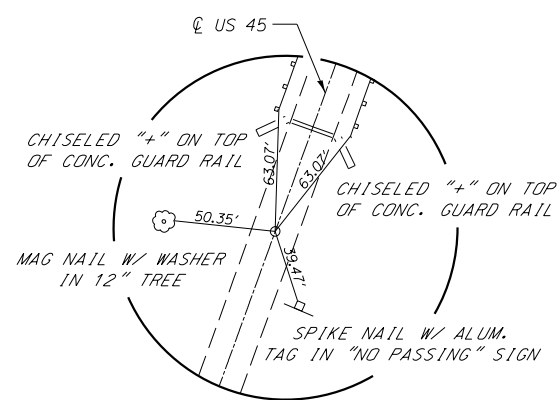
BM #603 CHISELED SQUARE ON THE NE CORNER OF A CONCRETE
 HEADWALL OF A BRIDGE OVER GREEN CREEK
 STR #025-0024 22' EAST OF THE ϕ OF US 45
 22' RT STA 262+30
 ELEV. 579.56



PC STA 250+80.76
MAG NAIL WITH WASHER



PI STA 256+05.77
MAG NAIL WITH WASHER



PT STA 261+30.76
MAG NAIL WITH WASHER

COORDINATE DATA:

POT STA 231+94.29	N	917,839.43
	E	932,958.39
PC STA 244+58.82	N	919,026.04
	E	933,395.42
PI STA 247+08.82	N	919,260.64
	E	933,481.82
PT STA 249+58.82	N	919,494.37
	E	933,570.53
PC STA 250+80.76	N	919,608.38
	E	933,613.80
PI STA 256+05.77	N	920,099.22
	E	933,800.11
PT STA 261+30.76	N	920,592.91
	E	933,978.72



BM #604 CHISELED SQUARE ON THE SE CORNER OF A BOX CULVERT 38' EAST OF THE \dot{C} OF US 45 $\pm 1300'$ NORTH OF GREEN CREEK 38' RT STA 274+40 ELEV. 603.31

BM #605 CHISELED SQUARE ON THE SE CORNER OF THE EAST HEADWALL OF A BOX CULVERT 28' EAST OF THE \dot{C} OF US 45 $\pm 2500'$ SOUTH OF COUNTY RD 2050N 28' RT STA 286+60 ELEV. 626.29

MATCH LINE STA 264+00

MATCH LINE STA 280+00

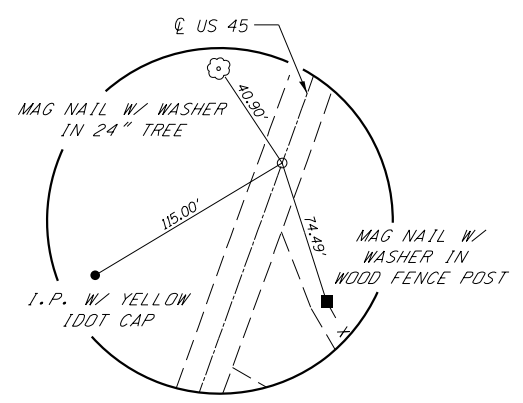
265+00 FAS ROUTE 1652 US 45 270+00 275+00

POT Sta 273+95.21

MATCH LINE STA 280+00

280+00 FAS ROUTE 1652 US 45 285+00

POT Sta 288+50.88



**PI STA 273+95.21
MAG NAIL WITH WASHER**

COORDINATE DATA:

PI STA 273+95.21	N	921,781.95
	E	934,408.90
POT STA 288+50.88	N	923,151.76
	E	934,901.42



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PLOT SCALE = 100.0000" / 1"
PLOT DATE = 8/12/2015

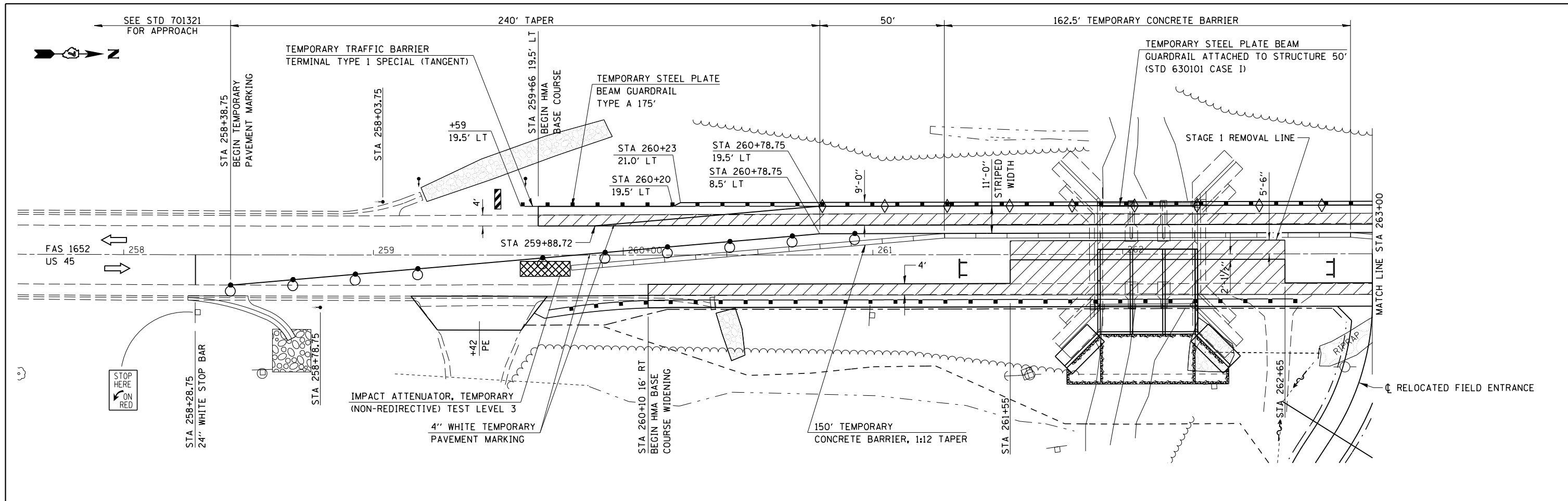
DESIGNED - NAK
DRAWN - AJH
CHECKED - NAK
DATE - 11/21/2011

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, CROSS TIES AND BENCH MARKS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	



SEQUENCE OF OPERATIONS

PRE-STAGE 1

1. REMOVE EXISTING PAVED SHOULDER LEFT STA. 259+66 TO STA. 264+52 AND CONSTRUCT HMA BASE COURSE 12"
2. CONSTRUCT RELOCATED FIELD ENTRANCE RT STA 263+00
3. INSTALL TEMPORARY GUARDRAIL AND TERMINALS LEFT STA. 259+59 TO STA. 264+59
4. INSTALL ADVANCE WARNING SIGNS, TEMPORARY BRIDGE TRAFFIC SIGNALS, AND TEMPORARY DETECTOR LOOPS

STAGE 1

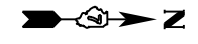
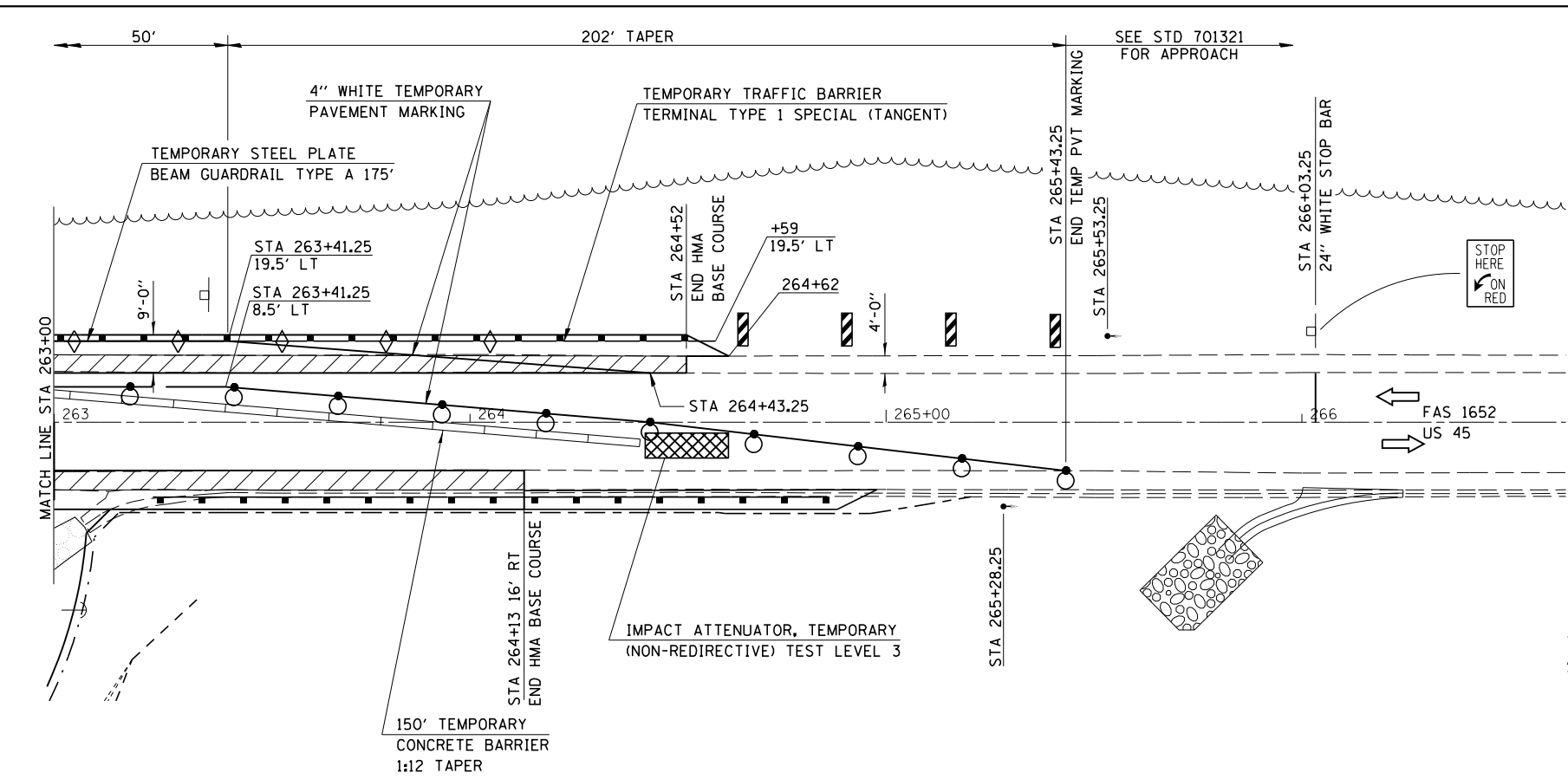
1. REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TRAFFIC IN THE STAGE 1 LANE
2. INSTALL TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN THE PLANS
3. REMOVE STAGE 1 PORTION OF THE EXISTING STRUCTURE AND PAVEMENT AND CONSTRUCT STAGE 1 PORTION OF THE PROPOSED BOX CULVERT.
4. CONSTRUCT STAGE 1 PORTION OF ROADWAY ALONG EAST SIDE INCLUDING GUTTER REMOVAL, PAVED SHOULDER REMOVAL, HMA BASE COURSE 12", HMA SHOULDER, STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS.

GENERAL NOTES

1. SEE STANDARD 701321 FOR DETAILS OF TRAFFIC CONTROL AND PROTECTION NOT SHOWN
2. TEMPORARY RUMBLE STRAPS SHALL BE INSTALLED ON EACH APPROACH AS SHOWN ON STANDARD 701321
3. REMOVE EXISTING CENTERLINE PAVEMENT MARKINGS STA 258+28.75 TO STA 260+50 AND STA 263+50 TO STA 266+03.25
4. REMOVE EXISTING EDGE LINE STA 259+88.72 TO STA 264+43.25.
5. TEMPORARY ACCESS SHALL BE PROVIDED TO THE EXISTING FIELD ENTRANCE AT STA 262+65 RT FROM THE NORTH END BEHIND TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE LANDOWNER. COST WILL BE INCLUDED WITH TRAFFIC CONTROL.
6. THE TANGENT SECTION OF TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 PINS IN THE TRAFFIC SIDE OF EACH BARRIER SECTION

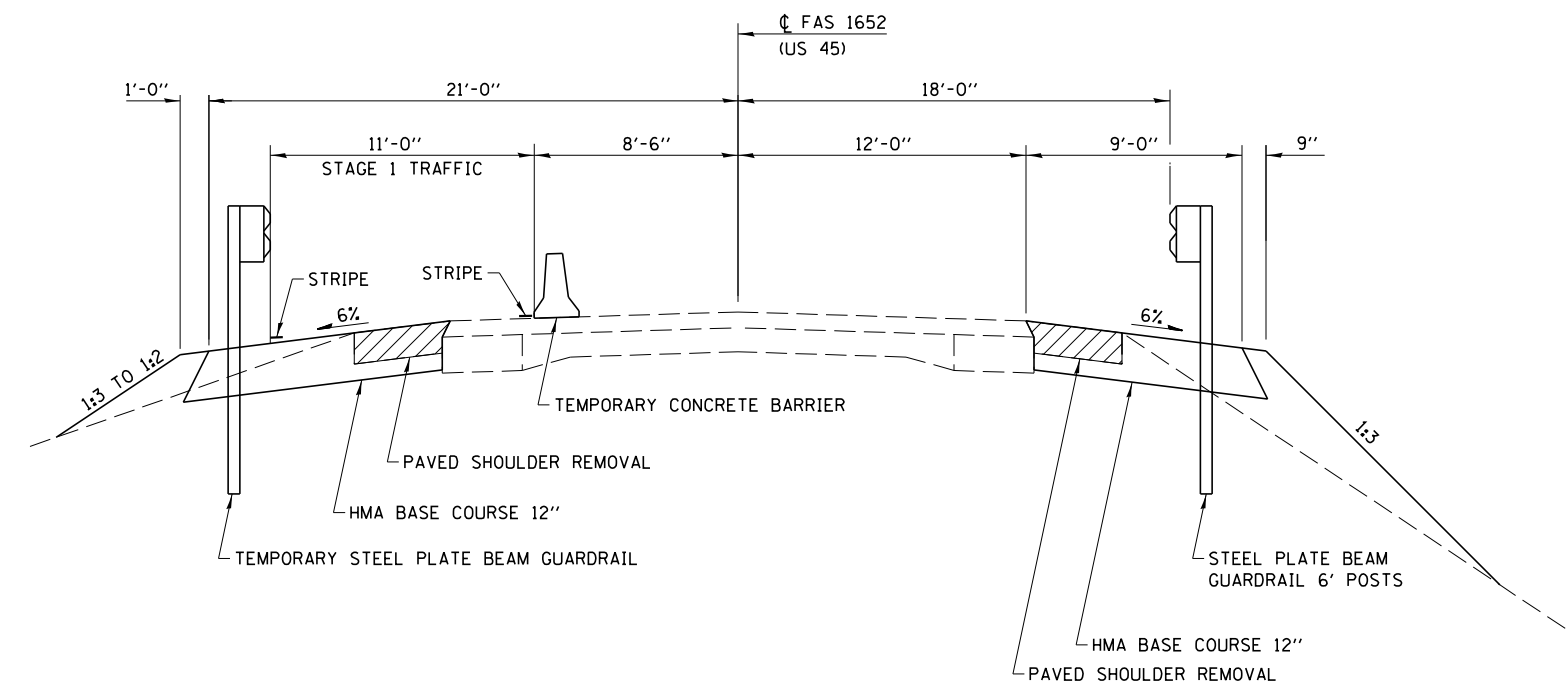
LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE
- DRUM WITH STEADY BURNING LIGHT
- CRYSTAL/BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- DOUBLE VERTICAL PANEL
- TYPE III BARRICADE
- IMPACT ATTENUATOR
- PAVED SHOULDER REMOVAL PAVEMENT REMOVAL



LEGEND	
	TRAFFIC SIGNAL WITH BACKPLATE
	DRUM WITH STEADY BURNING LIGHT
	CRYSTAL/BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
	DOUBLE VERTICAL PANEL
	TYPE III BARRICADE
	IMPACT ATTENUATOR
	PAVED SHOULDER REMOVAL PAVEMENT REMOVAL

THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS AS NEEDED ALONG THE SHOULDER TO THE FIELD ENTRANCE RT STA 262+60



STAGE 1 TYPICAL CROSS SECTION



JOB = 2223.4
 FILE NAME = 0794698-sh1-stage.dgn
 PLOT SCALE = 40.0000' / 1" =
 PLOT DATE = 8/12/2015

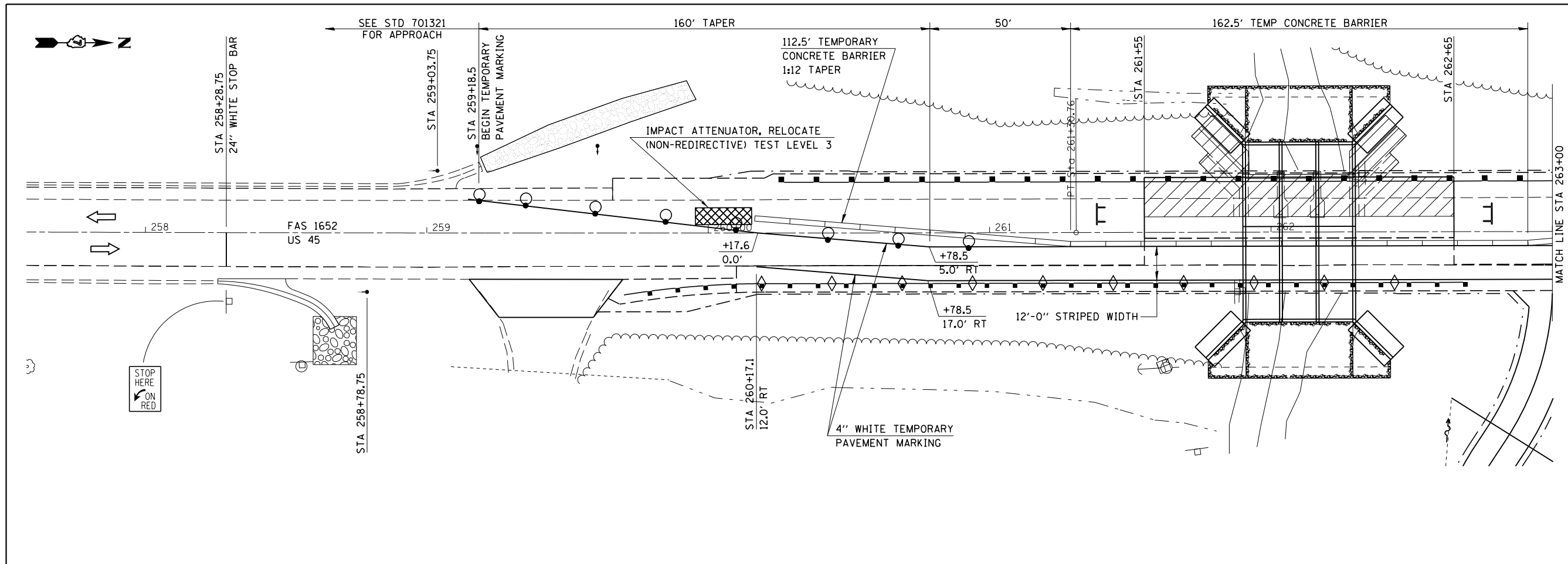
DESIGNED - NAK
 DRAWN - AJH
 CHECKED - NAK
 DATE - 11/21/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
 STAGE 1 CONSTRUCTION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	



SEQUENCE OF OPERATIONS

STAGE 2

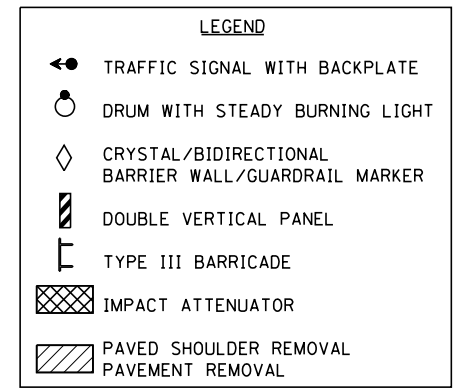
1. REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TRAFFIC IN THE STAGE 2 LANE
2. RELOCATE TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS; INSTALL TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN THE PLANS
3. REMOVE STAGE 2 PORTION OF THE EXISTING STRUCTURE AND PAVEMENT AND CONSTRUCT STAGE 2 PORTION OF THE PROPOSED BOX CULVERT.
4. CONSTRUCT HMA BASE COURSE 12' STA. 261+55 TO STA. 262+65
5. CONSTRUCT EARTHWORK ALONG WEST SIDE, HMA SHOULDER AND INSTALL STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS.

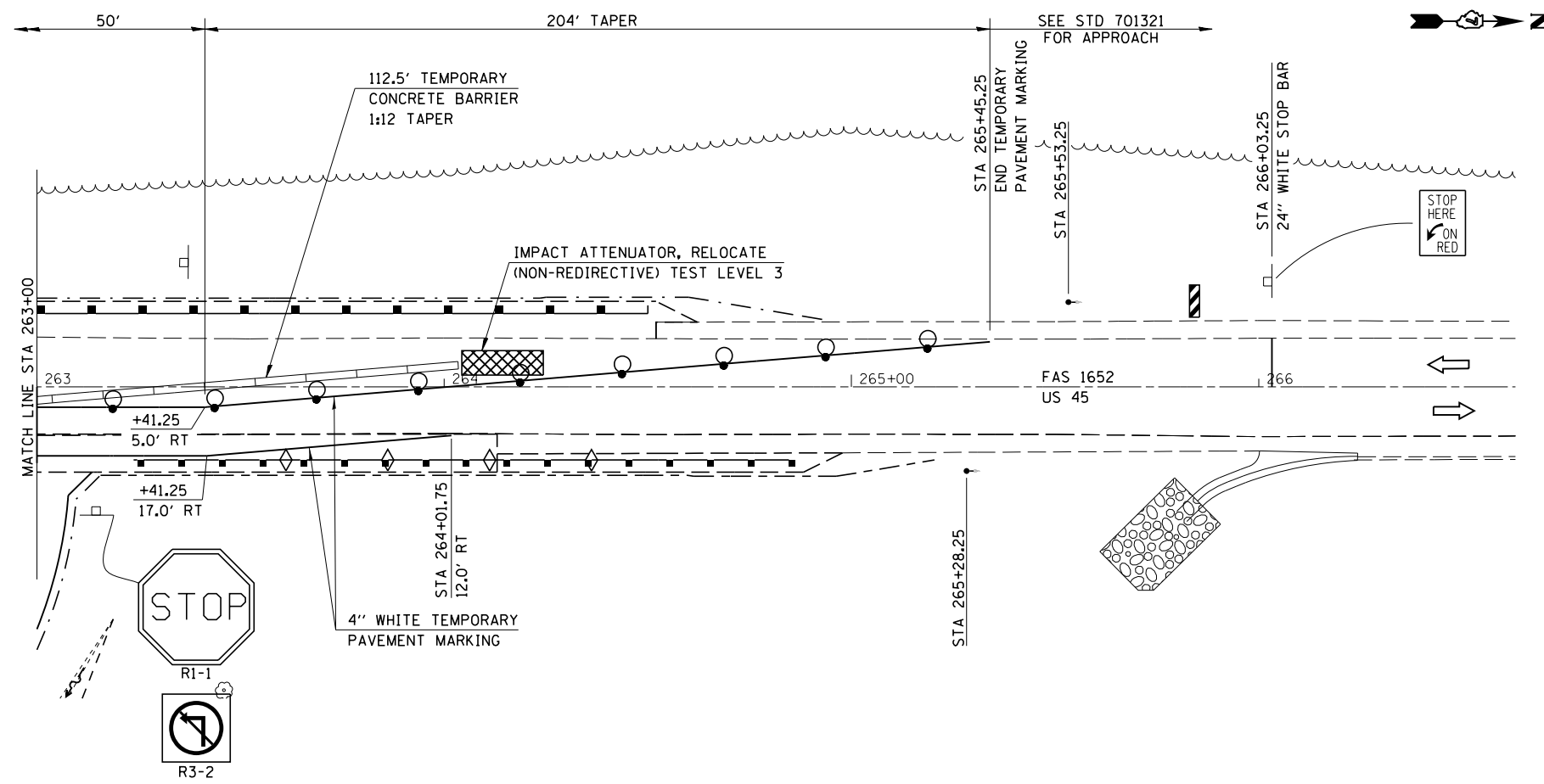
STAGE 3

1. REMOVE TRAFFIC CONTROL DEVICES, INSTALL SHORT-TERM PAVEMENT MARKINGS, AND PLACE TRAFFIC IN PERMANENT LANES
2. CONSTRUCT HMA SURFACE COURSE; INSTALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS.

GENERAL NOTES

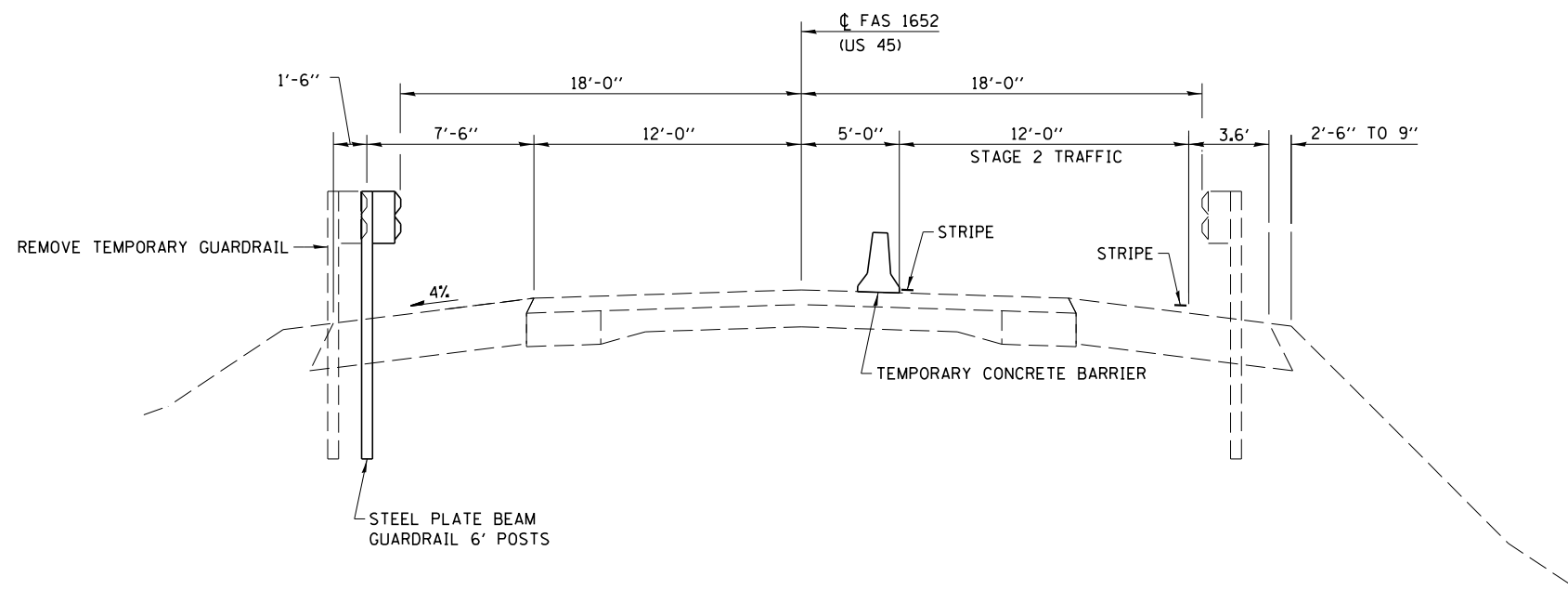
1. SEE STANDARD 701321 FOR DETAILS OF TRAFFIC CONTROL AND PROTECTION NOT SHOWN
2. REMOVE EXISTING EDGE LINE STA 260+30.20 TO STA 263+92.95
3. THE TANGENT SECTION OF TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 PINS IN THE TRAFFIC SIDE OF EACH BARRIER SECTION





LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE
- DRUM WITH STEADY BURNING LIGHT
- CRYSTAL/BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- DOUBLE VERTICAL PANEL
- TYPE III BARRICADE
- IMPACT ATTENUATOR
- PAVED SHOULDER REMOVAL PAVEMENT REMOVAL



STAGE 2 TYPICAL CROSS SECTION



JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-sh2-stage.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 40.0000' / 1in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/12/2015	DATE - 11/21/2011	REVISED -

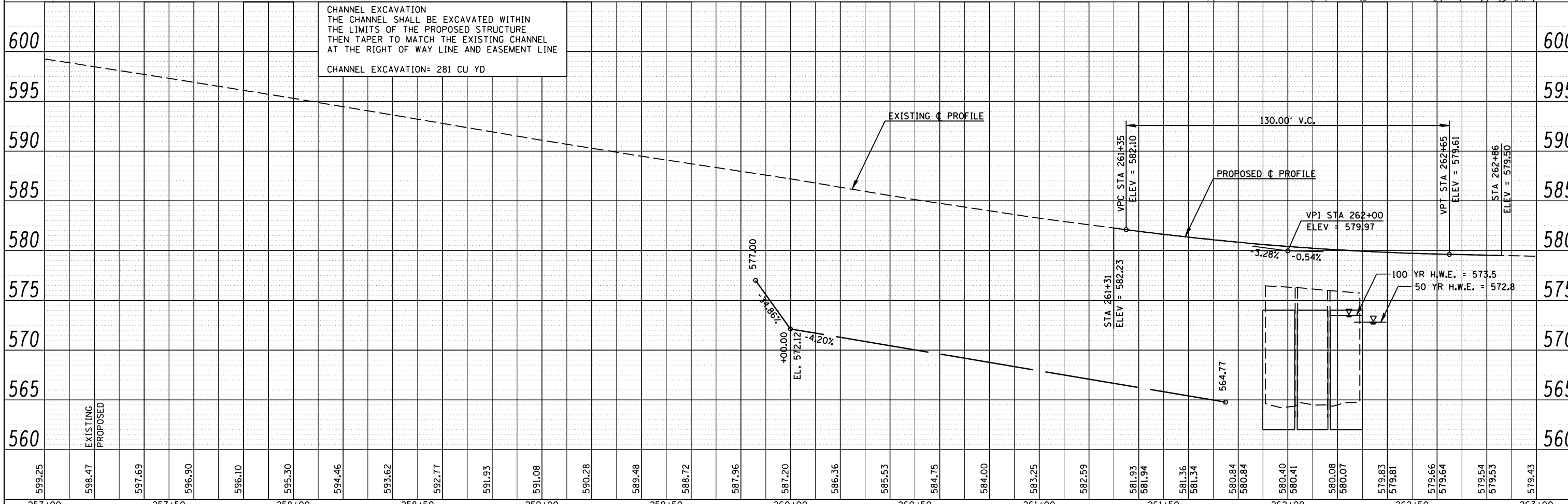
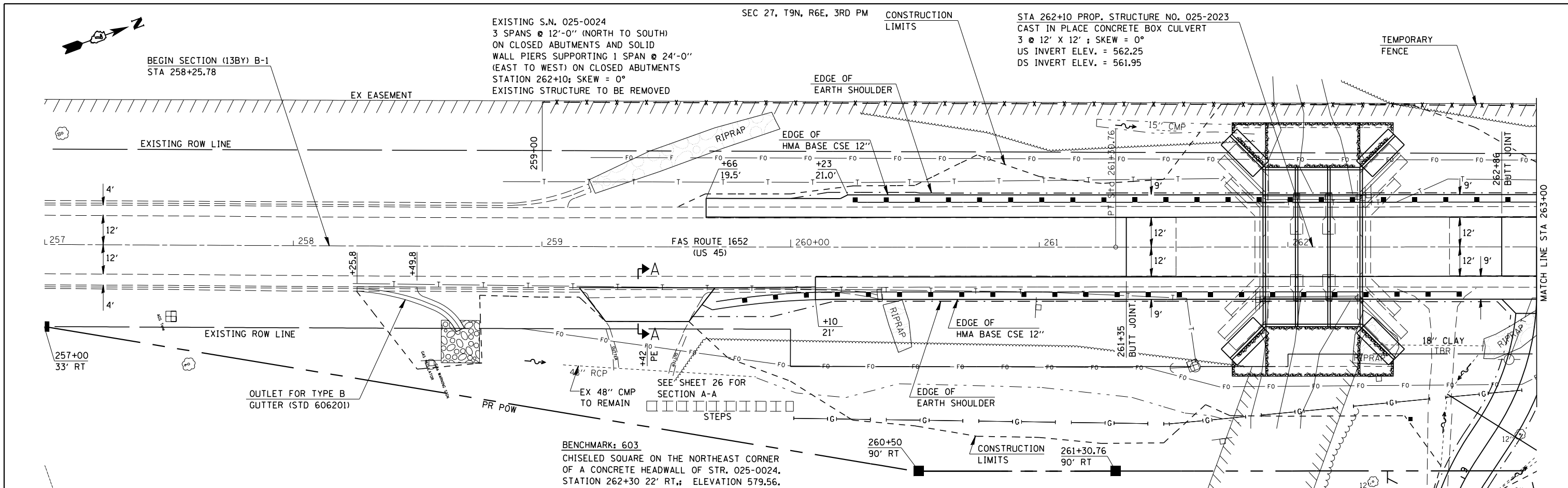
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2 CONSTRUCTION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	20
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES	BY
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



CHANNEL EXCAVATION
 THE CHANNEL SHALL BE EXCAVATED WITHIN
 THE LIMITS OF THE PROPOSED STRUCTURE
 THEN TAPER TO MATCH THE EXISTING CHANNEL
 AT THE RIGHT OF WAY LINE AND EASEMENT LINE
 CHANNEL EXCAVATION= 281 CU YD

599.25	598.47	597.69	596.90	596.10	595.30	594.46	593.62	592.77	591.93	591.08	590.28	589.48	588.72	587.96	587.20	586.36	585.53	584.75	584.00	583.25	582.59	581.93	581.94	581.36	581.34	580.84	580.84	580.40	580.41	580.08	580.07	579.83	579.81	579.66	579.64	579.54	579.53	579.43
257+00	257+50	258+00	258+50	259+00	259+50	260+00	260+50	261+00	261+50	262+00	262+50	263+00	F.A.S. RTE. 1652		SECTION (13BY) B-1		COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 21	CONTRACT NO. 94698																		

CEC Cummins Engineering Corporation
 Civil and Structural Engineering

JOB = 2223.4
 FILE NAME = D794698-sh1-plan.dgn
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 8/12/2015

DESIGNED	-	NAK	REVISED	-
DRAWN	-	AJH	REVISED	-
CHECKED	-	NAK	REVISED	-
DATE	-	12/2/2011	REVISED	-

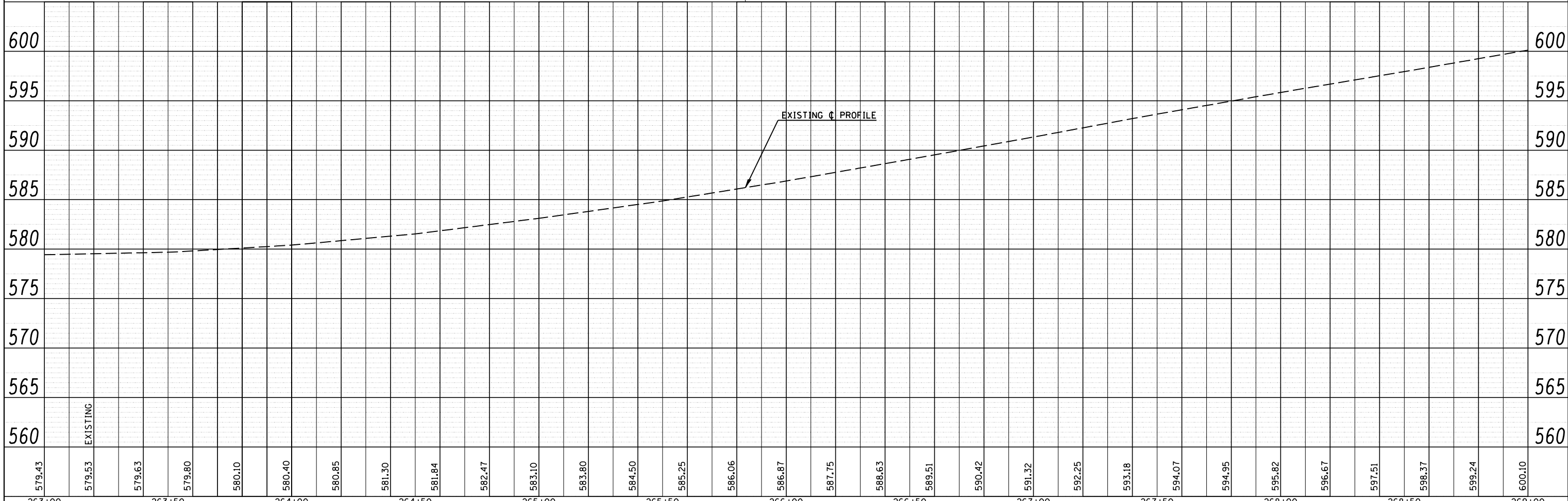
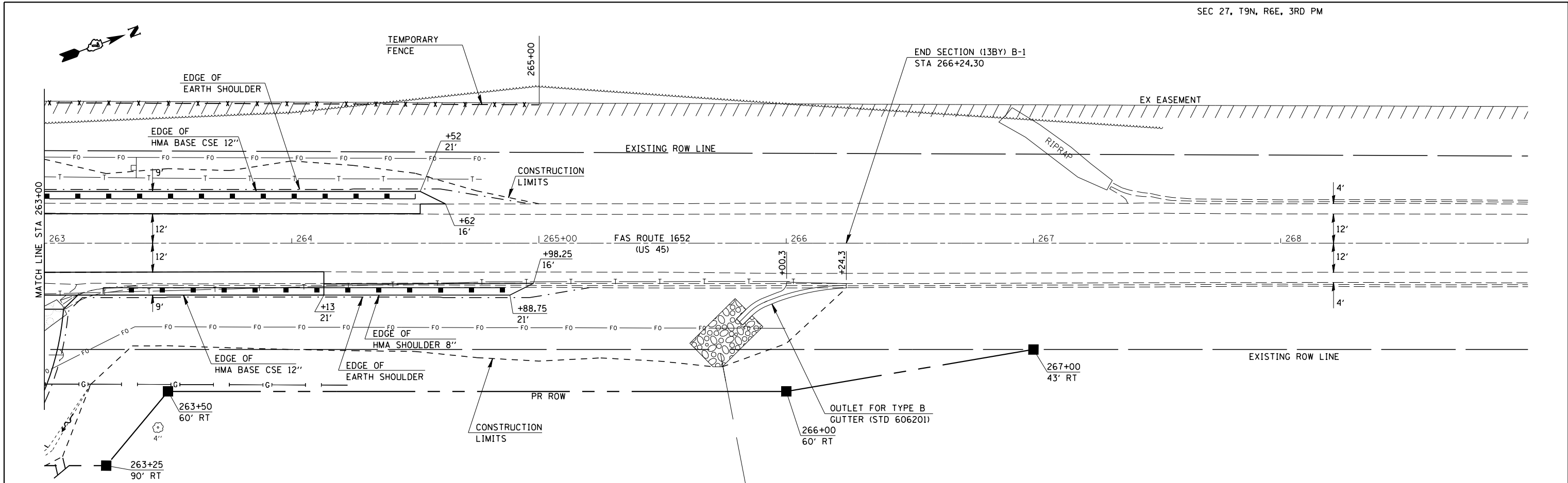
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 45
 SCALE: SHEET NO. OF SHEETS STA. 257+00 TO STA. 263+00

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



579.43	579.53	579.63	579.80	580.10	580.40	580.85	581.30	581.84	582.47	583.10	583.80	584.50	585.25	586.06	586.87	587.75	588.63	589.51	590.42	591.32	592.25	593.18	594.07	594.95	595.82	596.67	597.51	598.37	599.24	600.10
263+00	263+50	264+00	264+50	265+00	265+50	266+00	266+50	267+00	267+50	268+00	268+50	269+00																		

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB # 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = D794698-shr-plan.dgn	DRAWN - AJH	REVISED -
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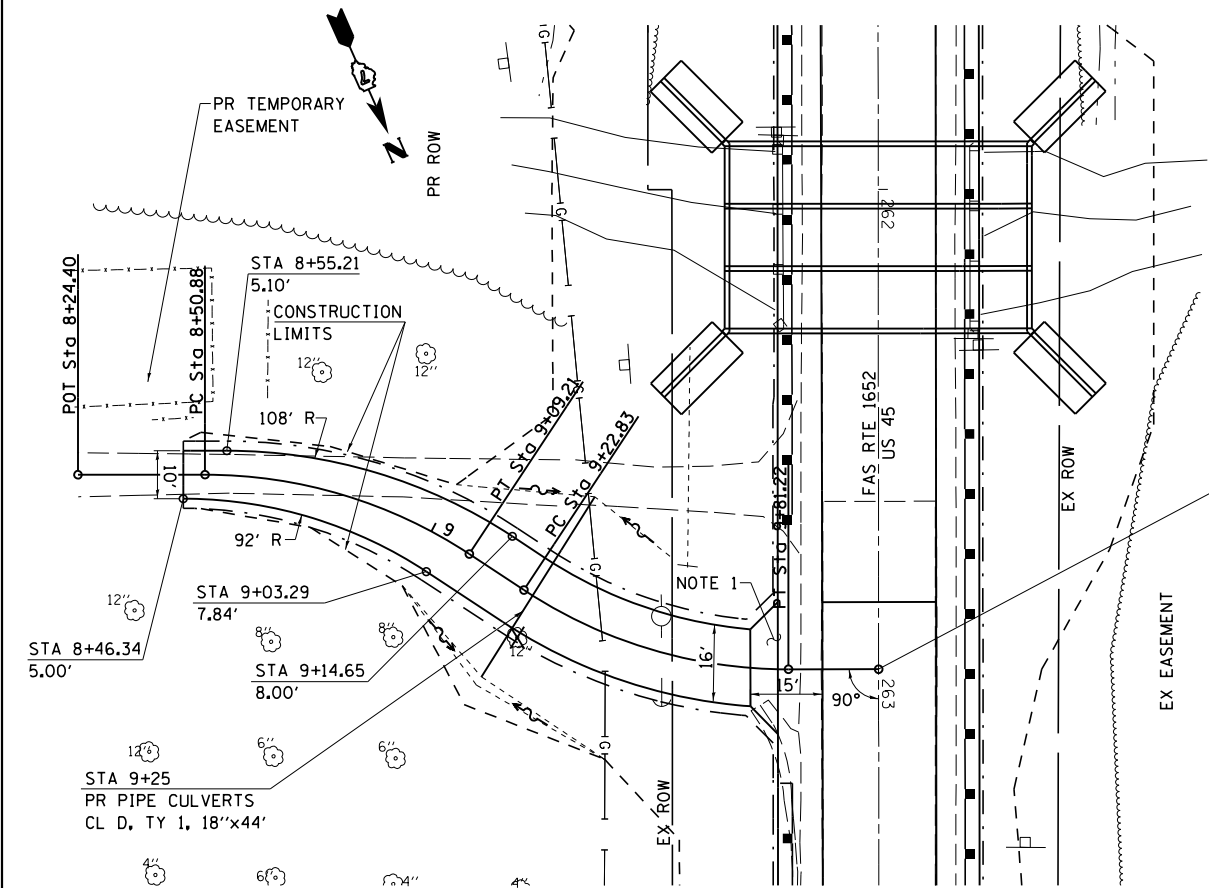
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 45			
SCALE:	SHEET NO.	OF SHEETS	STA. 263+00 TO STA. 269+00

F.A.S. RTE. 1652	SECTION (13BY) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 22
CONTRACT NO. 94698			ILLINOIS FED. AID PROJECT	

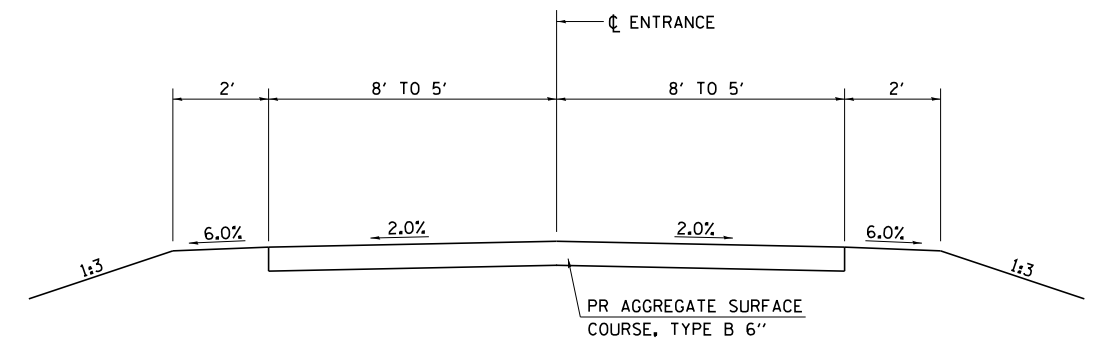
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



PROP. CURVE FE101
PI STA. = 8+80.90
Δ = 33° 25' 00" (RT)
D = 57° 17' 45"
R = 100.00'
T = 30.02'
L = 58.32'
E = 4.41'
e = NORMAL CROWN
T.R. = -----
S.E. RUN = -----
P.C. STA = 8+50.88
P.T. STA = 9+09.21

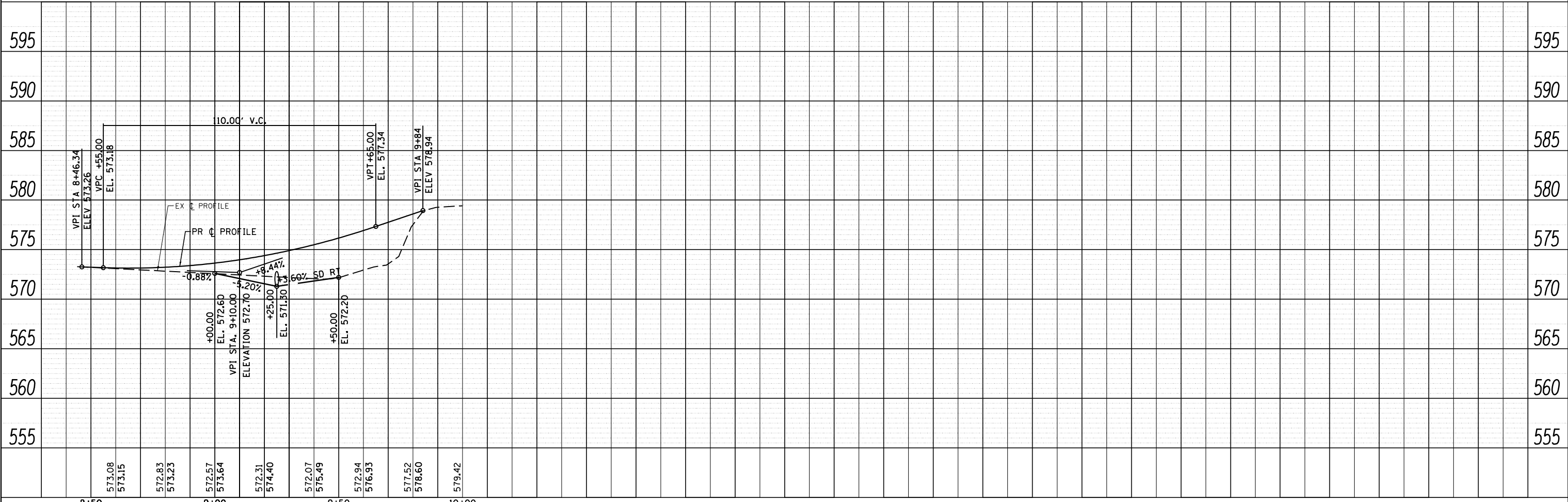
PROP. CURVE FE102
PI STA. = 9+52.88
Δ = 33° 27' 16" (LT)
D = 57° 17' 45"
R = 100.00'
T = 30.05'
L = 58.39'
E = 4.42'
e = NORMAL CROWN
T.R. = -----
S.E. RUN = -----
P.C. STA = 9+22.83
P.T. STA = 9+81.22



PROPOSED TYPICAL CROSS SECTION

NOTE 1: CONSTRUCT INCIDENTAL HMA SURFACING 3" ON AGGREGATE BASE COURSE TYPE B 6" FROM EDGE OF SHOULDER TO END OF ENTRANCE FLARES.

FE			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	8+24.40	920657.07	934179.33
P.C.	8+50.88	920666.10	934154.43
P.I.	8+80.90	920676.33	934126.21
P.T.	9+09.21	920700.41	934108.29
P.C.	9+22.83	920711.34	934100.16
P.I.	9+52.88	920735.45	934082.22
P.T.	9+81.22	920745.67	934053.96
P.O.T	10+00.00	920752.06	934036.30



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Civil and Structural Engineering

JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = D794698-sh-t-ent.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/12/2015	DATE - 11/23/11	REVISED -

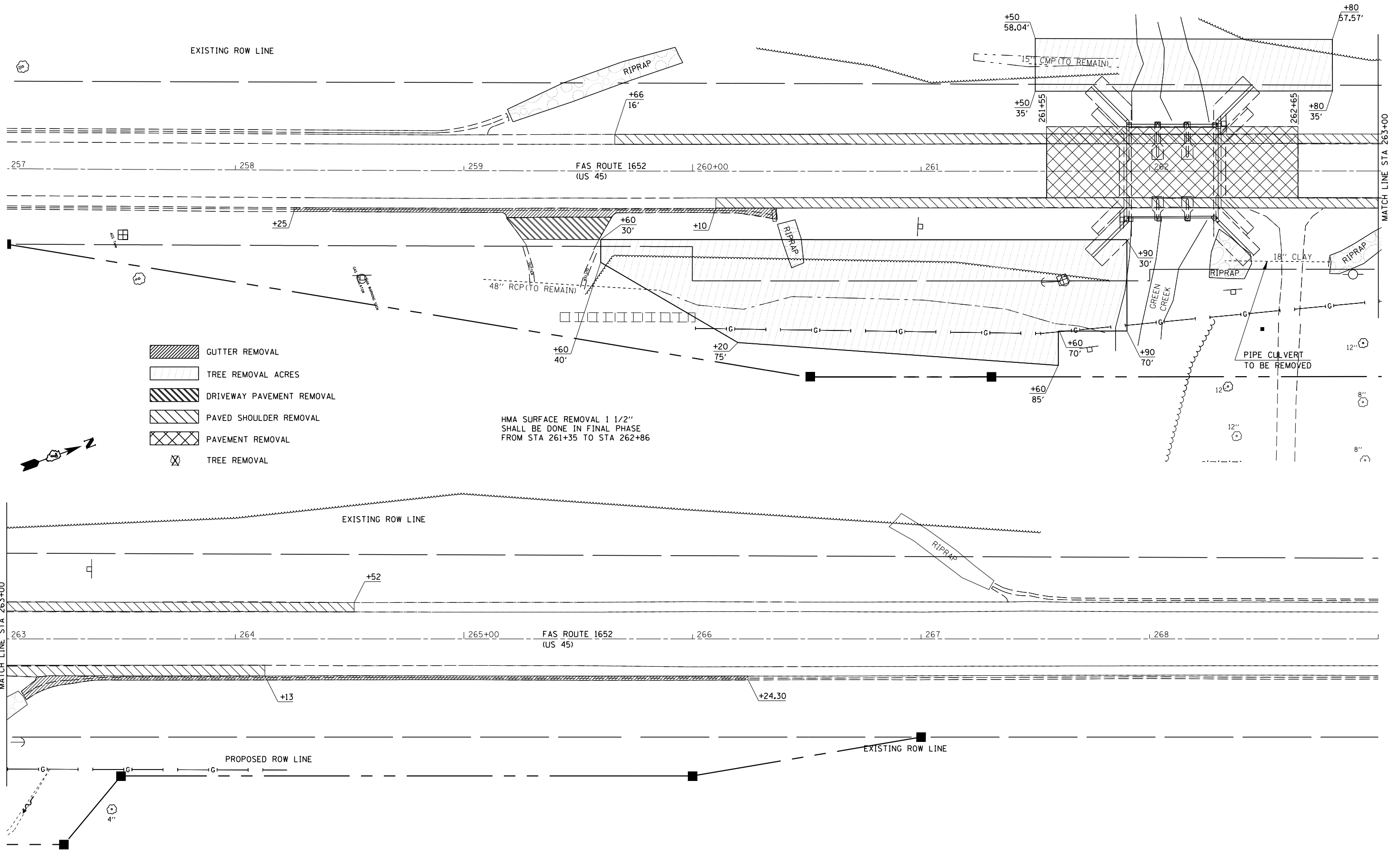
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


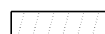

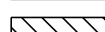
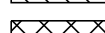
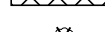
FIELD ENTRANCE PLAN & PROFILE				
SCALE:	SHEET NO.	OF SHEETS	STA. 8+24.40	TO STA. 10+00.00

F.A.S. RTE. 1652	SECTION (13BY) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 52	SHEET NO. 23
CONTRACT NO. 94698				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME	
	NO.	



-  GUTTER REMOVAL
-  TREE REMOVAL ACRES
-  DRIVEWAY PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  PAVEMENT REMOVAL
-  TREE REMOVAL

HMA SURFACE REMOVAL 1 1/2"
SHALL BE DONE IN FINAL PHASE
FROM STA 261+35 TO STA 262+86



JOB = 2223.4
FILE NAME = *FILES*
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

DESIGNED - NAK
DRAWN - AJH
CHECKED - NAK
DATE - 11/23/11

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

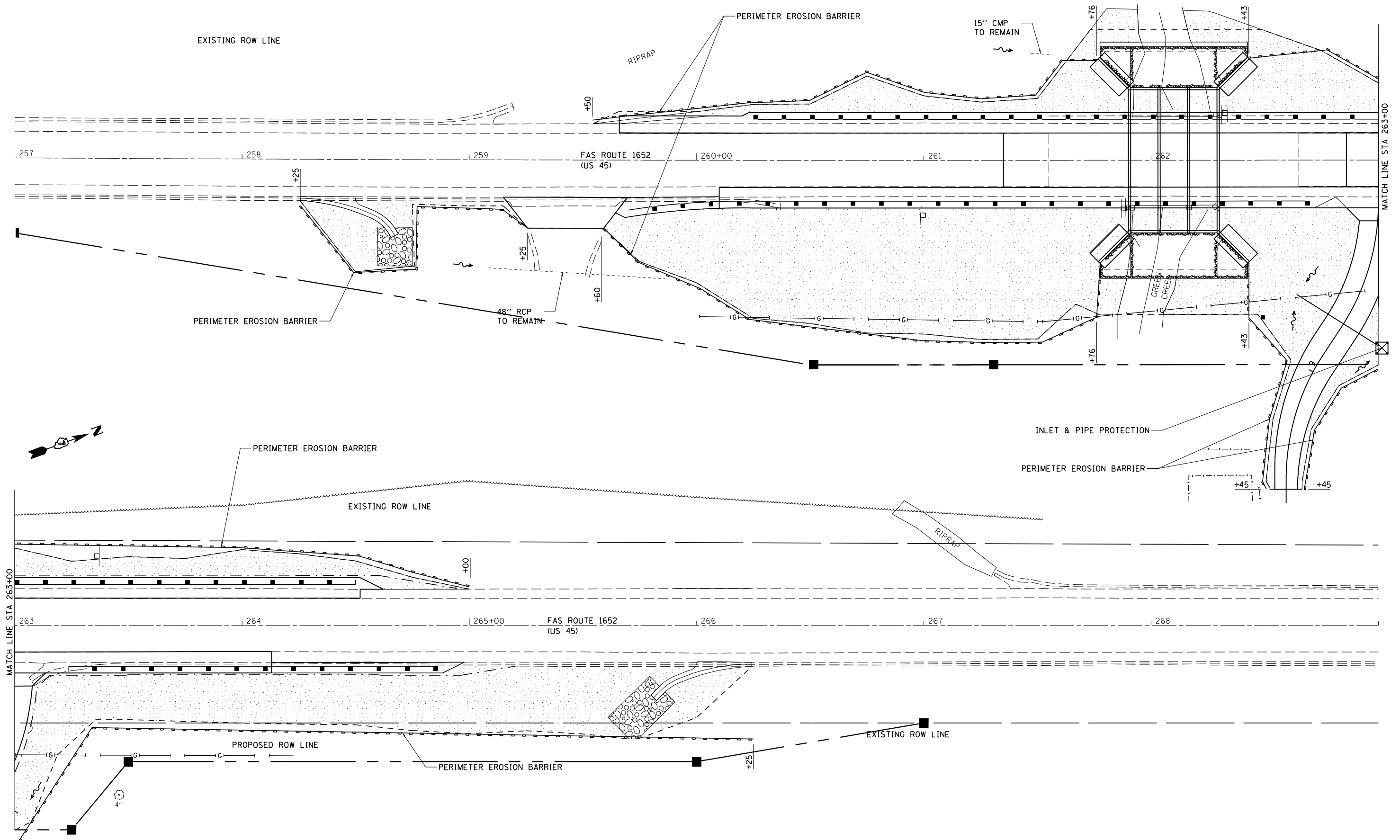
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	24
CONTRACT NO. 94698				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB # 2223.4
FILE NAME = D794698-shr-eroston.dgn
PLOT SCALE = 40.0000' / in.
PLOT DATE = 8/12/2015

DESIGNED - NAK
DRAWN - AJH
CHECKED - NAK
DATE - 11/29/2011

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

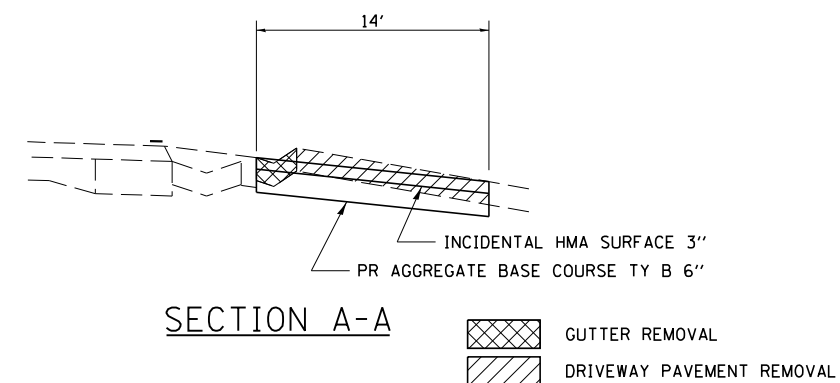
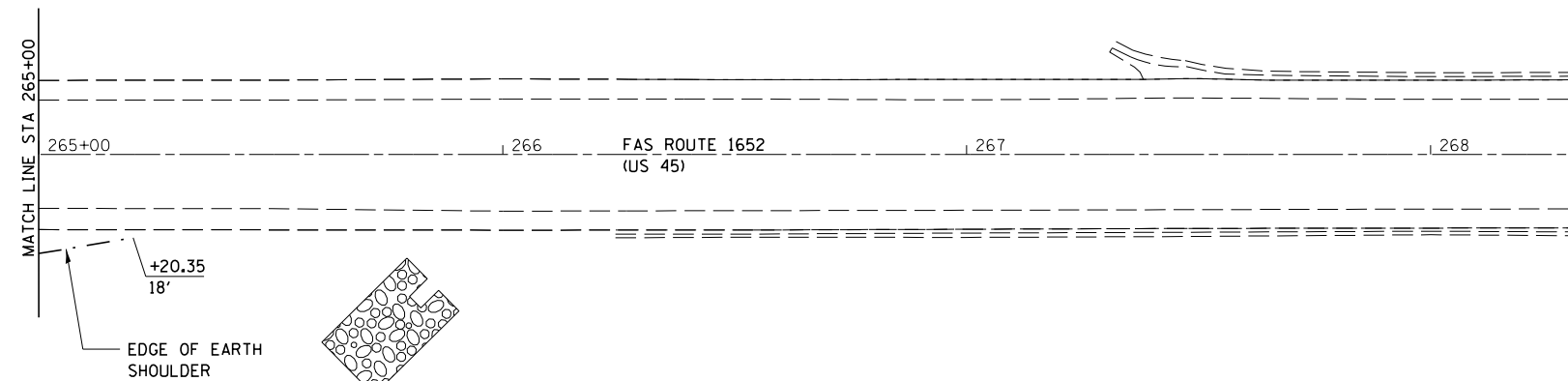
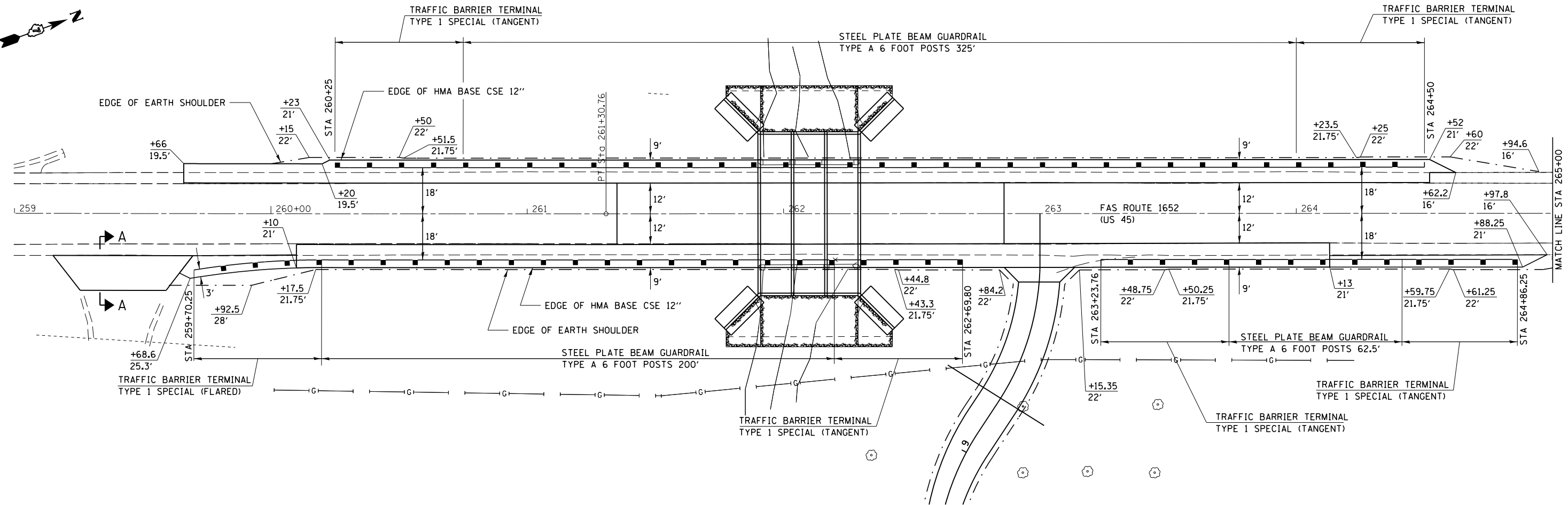
EROSION CONTROL PLAN

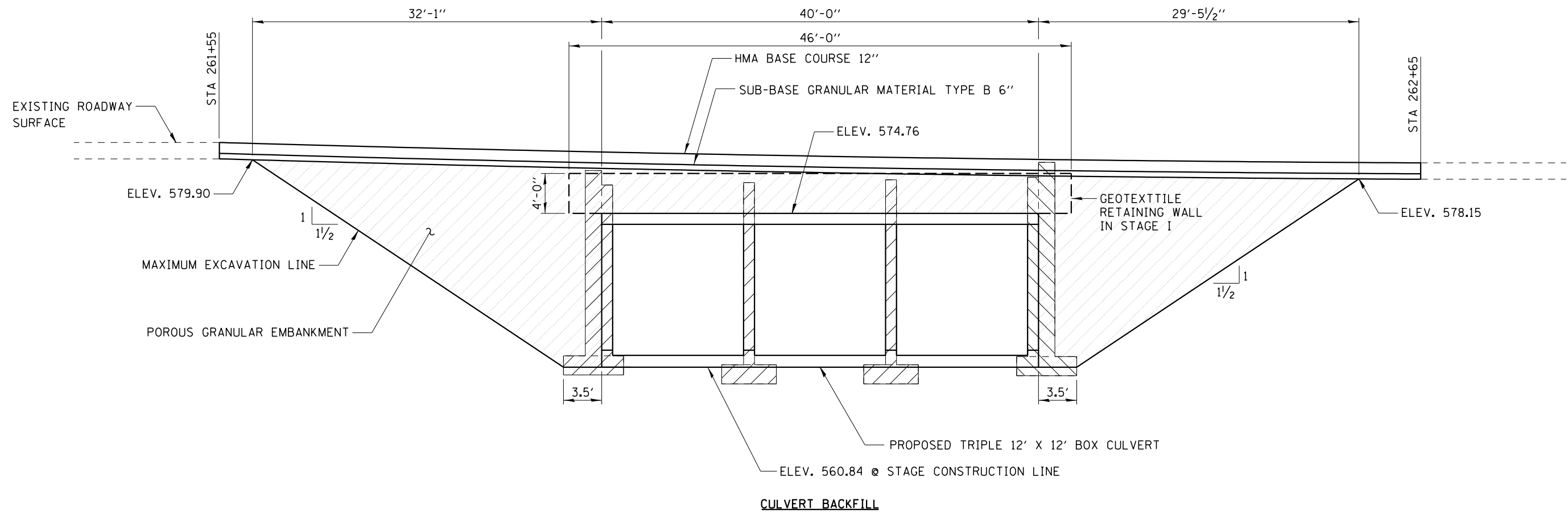
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	25
CONTRACT NO. 94698				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



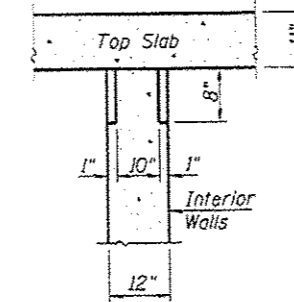
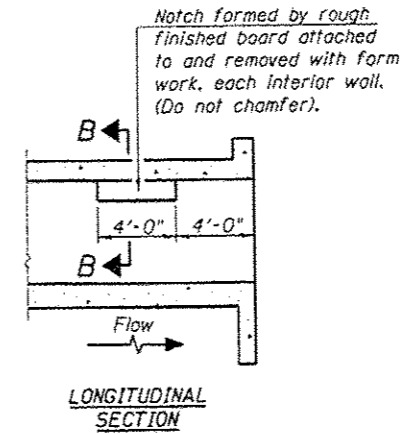
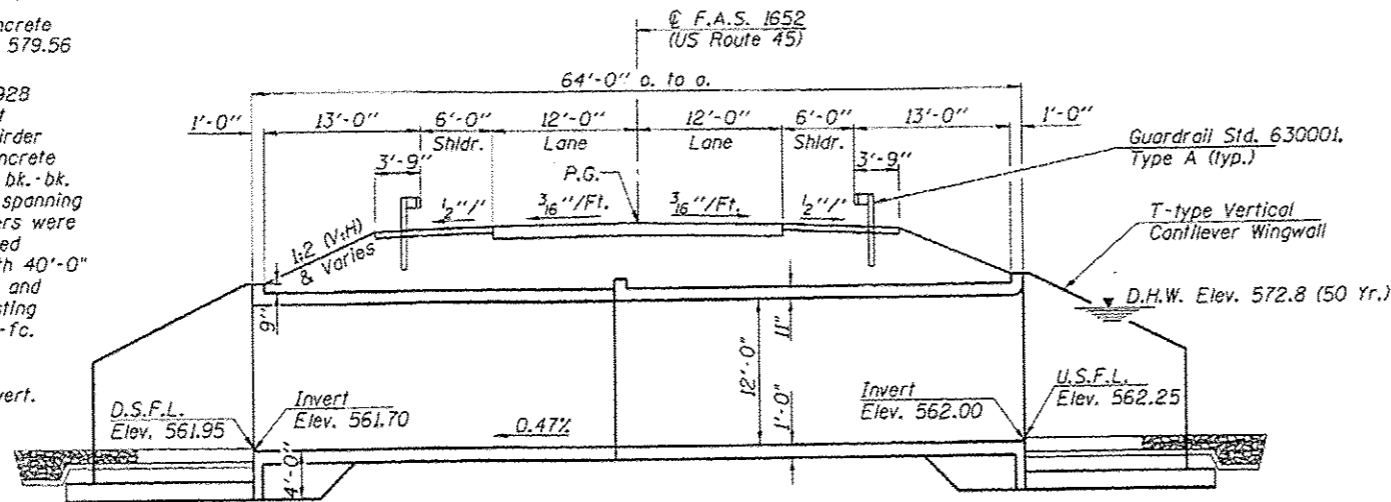


B.M. #603 Chiseled Square on the N.E. corner of concrete headwall S.N. 025-0024, 22' Rt. Sta. 262+30. Elev. 579.56

Existing Structure: SN 025-0024, originally built in 1928 and reconstructed in 1951 as SBI 25, Section 13BY at Sta. 262+10. The original structure is a R.C. thru girder single span bridge on timber pile supported closed concrete abutments. The original thru girders spanned 43'-0" bk.-bk. from North to South supporting a concrete deck slab spanning 24'-0" o.-o. from East to West. The R.C. thru girders were partially removed and the original structure was widened on the East and West with a three span R.C. slab with 40'-0" bk.-bk. closed concrete abutments on spread footings and solid wall concrete piers on spread footings. The existing structure has a clear roadway width of 39'-0" fc.-to-fc. and a concrete deck measuring 41'-0" o.-to-o. The existing structure will be removed and replaced, in stages, with a triple 12'x12' cast-in-place box culvert.

Traffic shall be maintained at all times utilizing Stage Construction.

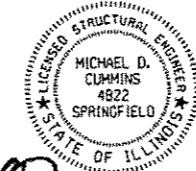
No Salvage.



PHOEBE NESTING SITE DETAILS (Downstream End Only)

NAME PLATE See Std. 515001

APPROVED For Structural Adequacy Only
 Michael D. Cummins
 Engineer of Bridges & Structures



Michael D. Cummins 8/12/15
 (Expires 11/30/2016)

INDEX OF SHEETS

- 1 GENERAL PLAN & ELEVATION
- 2 STAGE CONSTRUCTION DETAILS
- 3-4 GEOTEXTILE RETAINING WALL
- 5-6 CULVERT DETAILS
- 7 BAR SPLICER ASSEMBLY DETAILS
- 8 TEMPORARY CONCRETE BARRIER
- 9 SOIL BORING LOGS

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	DS 557.7	US 558.0
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DESIGN SPECIFICATIONS

2010 AASHTO Bridge Design Specifications with 2010 Interims

LOADING HL-93

Allow 50#/Sq. Ft. for future wearing surface

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.
4. Precast culvert alternate will not be permitted.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A5	Sq. Yd.	248
Filter Fabric	Sq. Yd.	248
Removal of Existing Structures	Each	1
Concrete Box Culverts	Cu. Yd.	382.5
Reinforcement Bars	Pound	61530
Temporary Soil Retention System	Sq. Ft.	785
Name Plates	Each	1
Bar Splicers	Each	256
Reinforcement Bars, Epoxy Coated	Pound	1350
Geotextile Retaining Wall	Sq. Ft.	184
Temporary Steel Plate Beam Guard Rail, Attached to Structures	Foot	50

GENERAL PLAN & ELEVATION
 US ROUTE 45 OVER EAST BRANCH GREEN CREEK

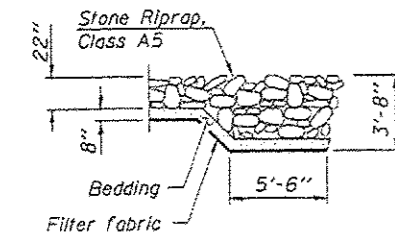
F.A.S. ROUTE 1652 SECTION (13BY)B-1

EFFINGHAM COUNTY

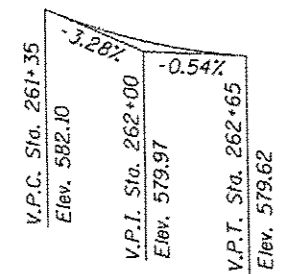
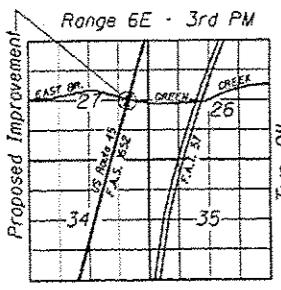
STATION 262+10

STRUCTURE NO. 025-2023

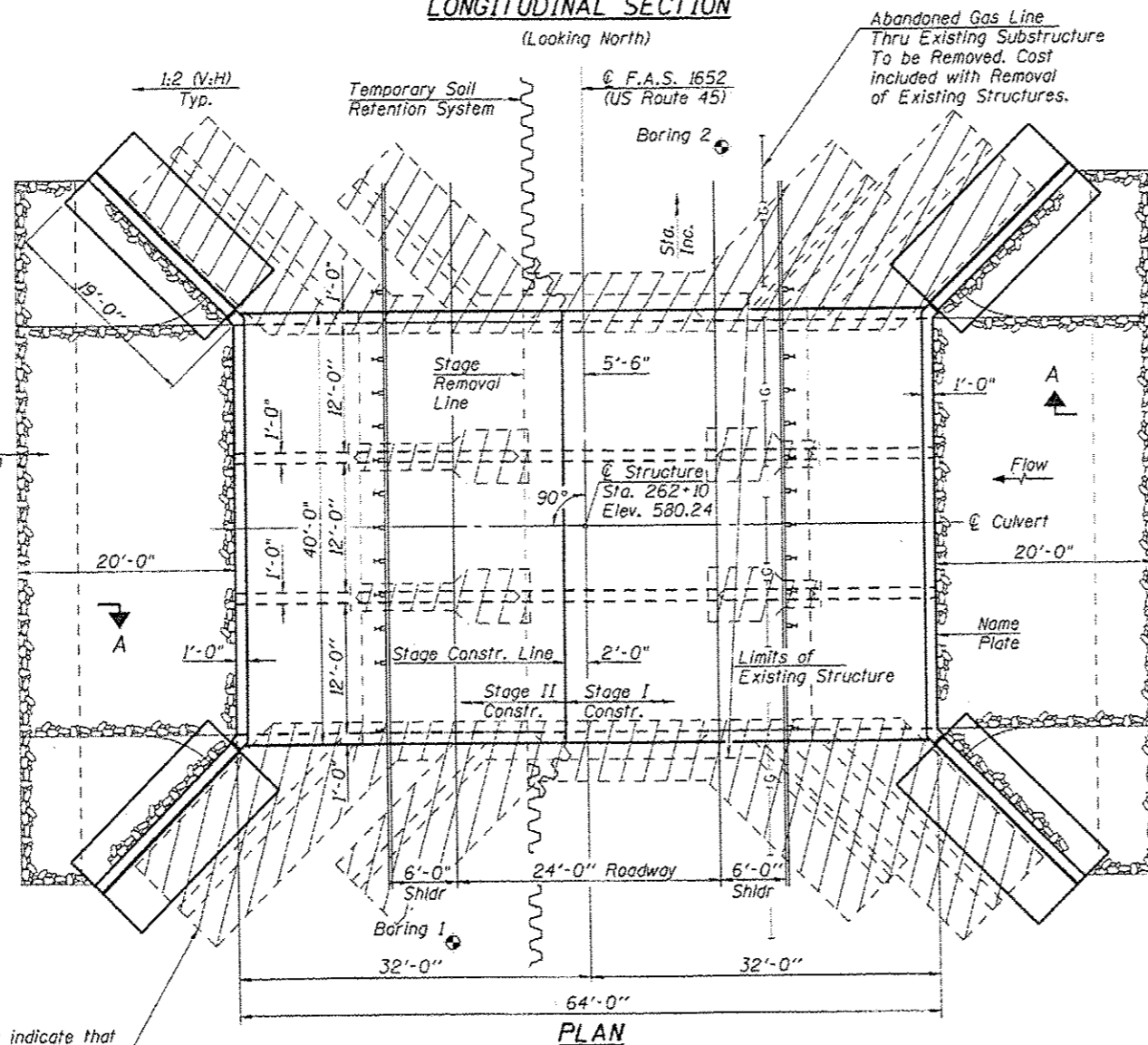
Sheet 1 of 9	F.A.S. RTE. 1652	SECTION (13BY)B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 28
CONTRACT NO. 94698					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



Stone Riprap Class A5 (Typ.)



Hatched Areas indicate that the Existing Footings are to be completely removed. Cost included with Removal of Existing Structures.



WATERWAY INFORMATION

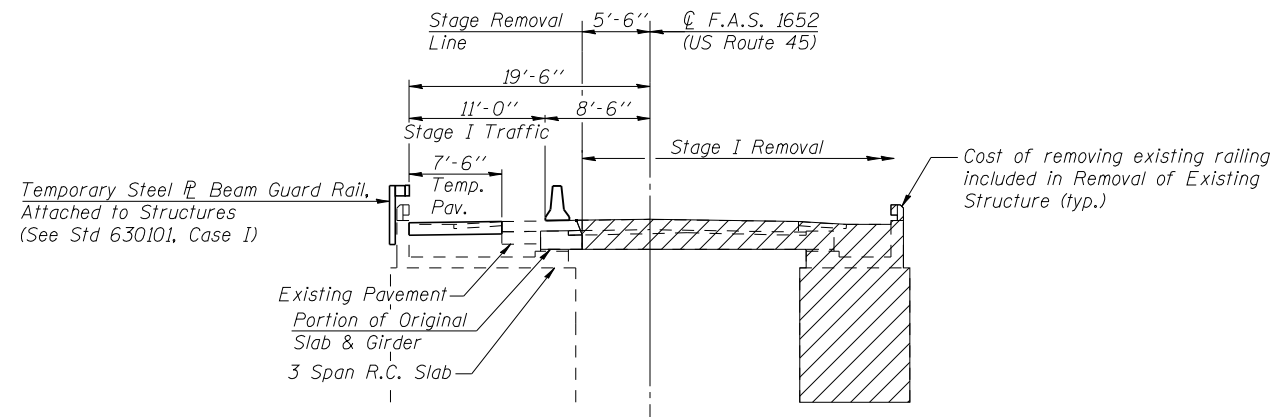
Drainage Area = 9.4 sq. mi. Low Grade Elev. 579.42 @ Sta. 263+00

Flood Yr.	Freq.	0 C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Prop.
10	1847	233	313	570.7	0.9	571.6
Design	50	2966	308	572.8	1.4	574.2
Base	100	3468	333	573.5	1.7	575.2
Overtopping	500	4695	405	575.5	4.0	579.5
Max. Calc.	500	4695	405	575.5	4.0	579.5

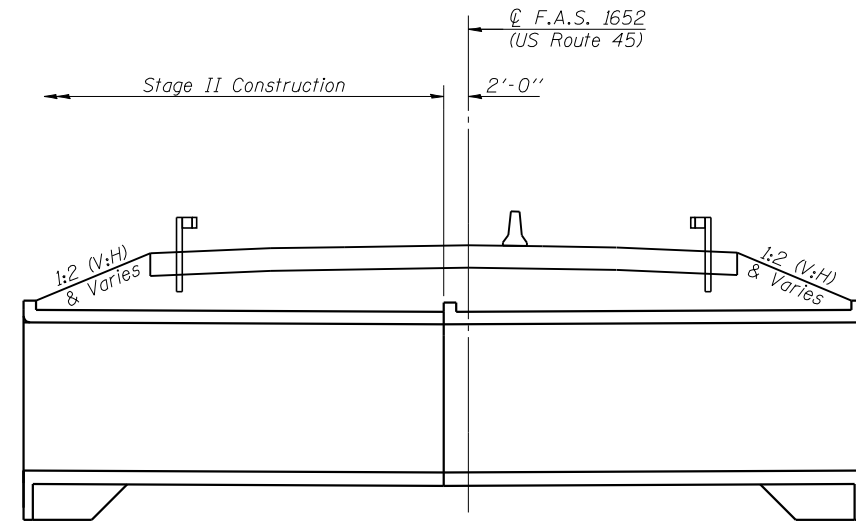
10 year velocity through existing bridge = 7.93 fps
 10 year velocity through proposed culvert = 5.90 fps

CEC Cummins Engineering Corporation
 Civil and Structural Engineering

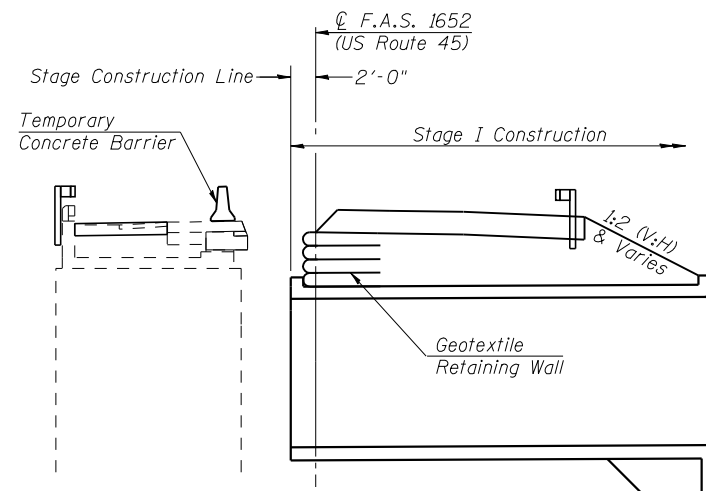
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FILE = 0252023-94698-001-2223.4gpe.dgn	CHECKED R.K. & M.D.C.
DATE = 8/11/2015	DRAWN S.J.S.
	CHECKED A.A.N. & M.D.C.



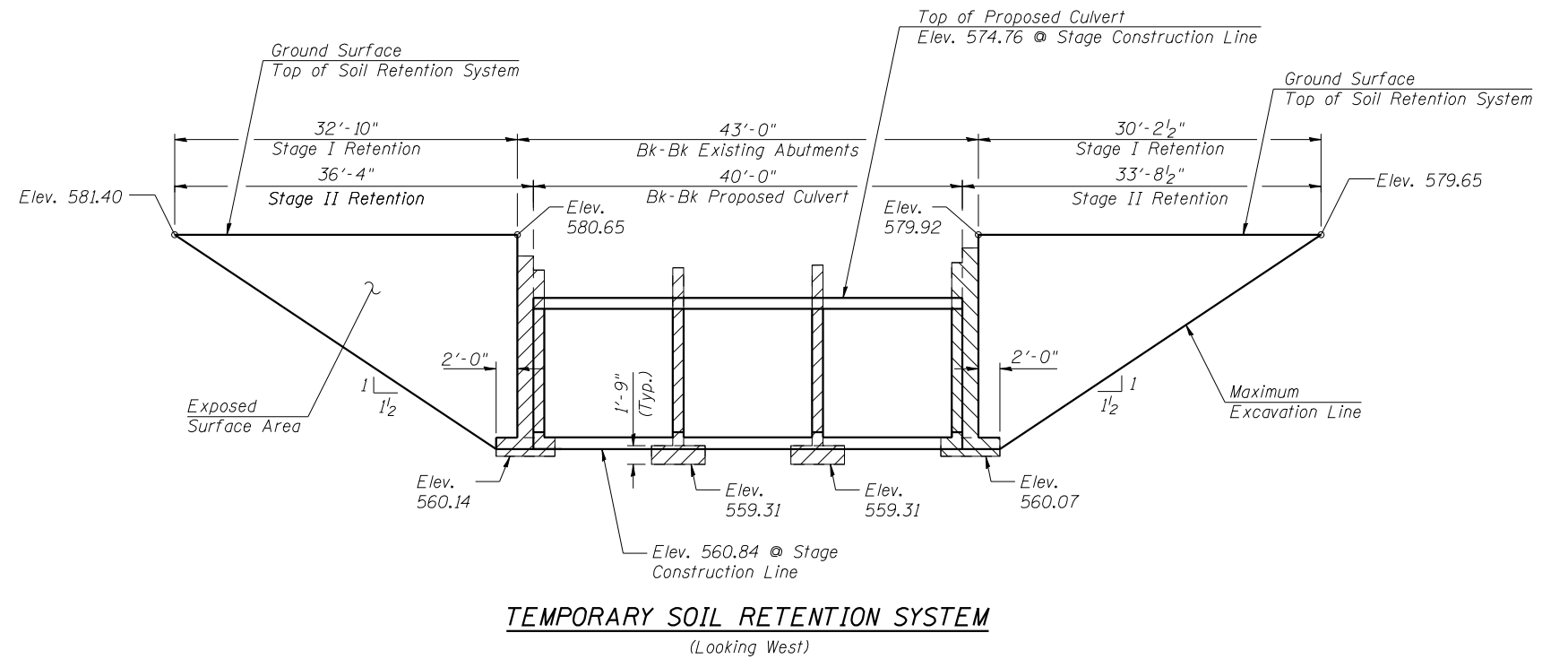
STAGE I REMOVAL



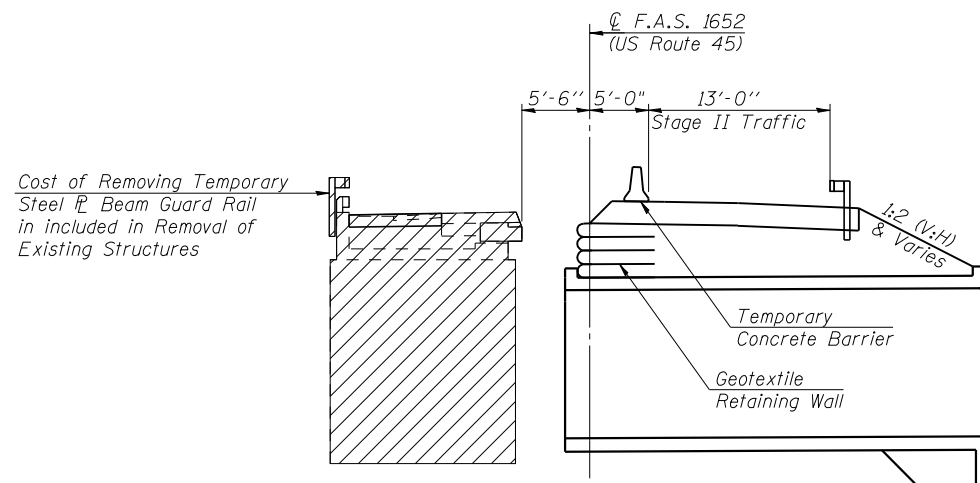
STAGE II CONSTRUCTION



STAGE I CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM (Looking West)



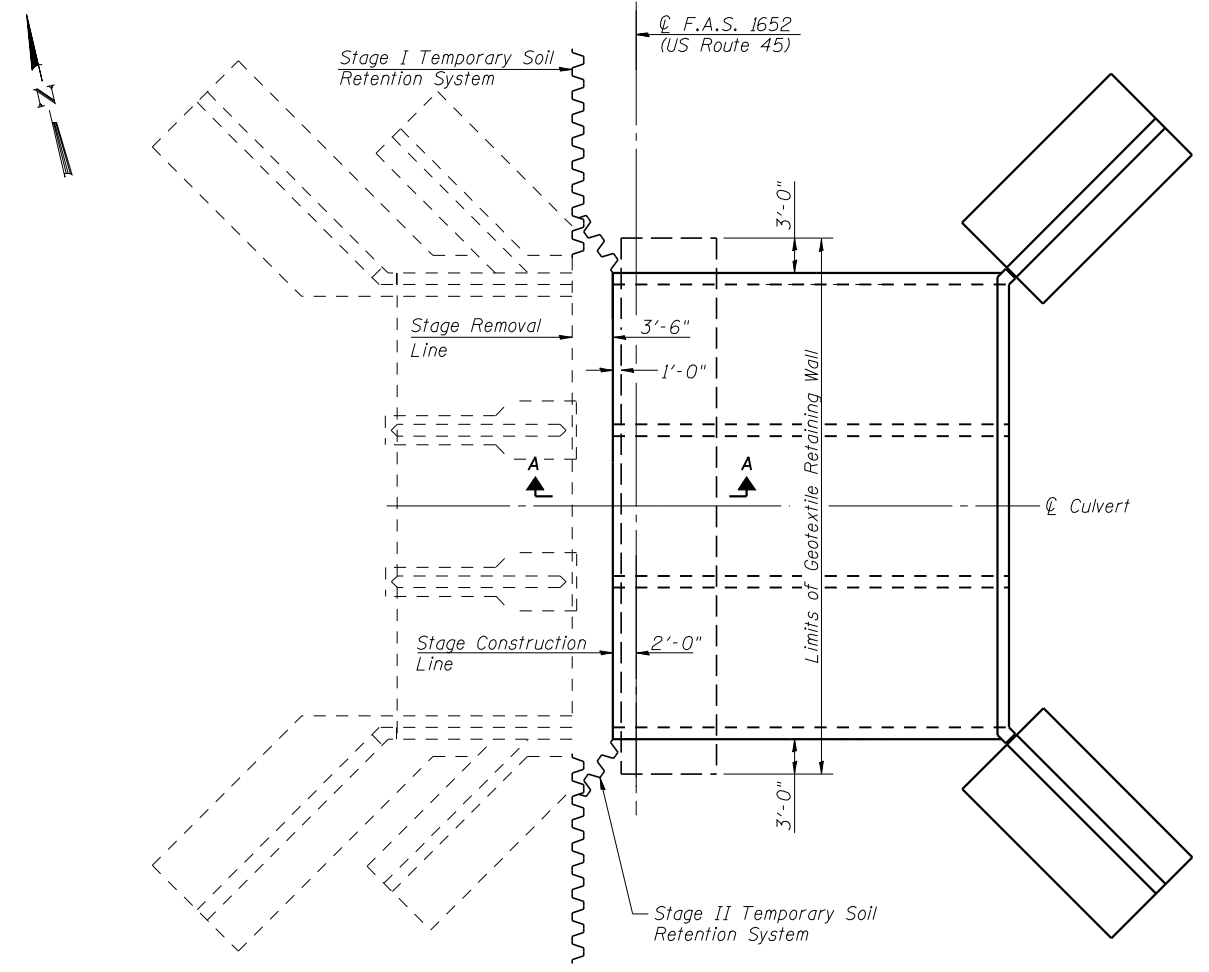
STAGE II REMOVAL

- Notes:
1. All staging sections are Looking North
 2. See Roadway Plans for Quantity of Temporary Concrete Barrier.
 3. Hatched areas indicate Removal of Existing Structures.
 4. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

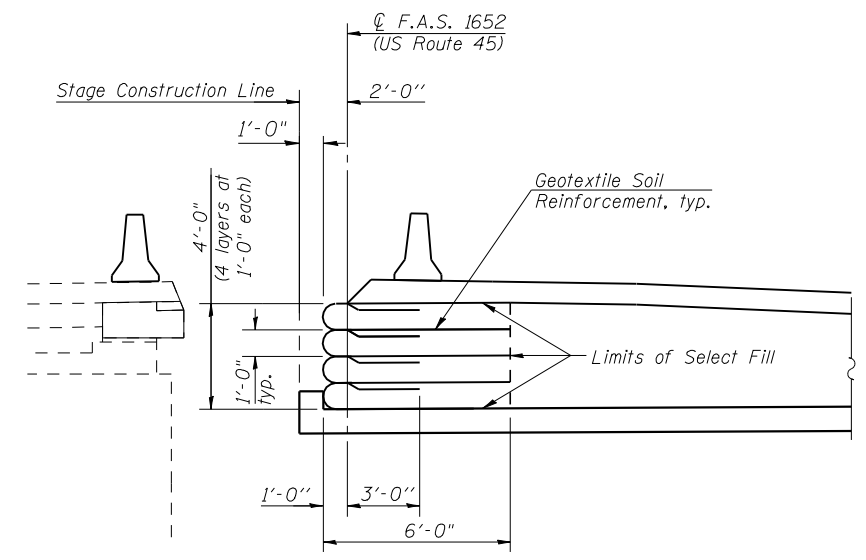
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Soil Retention System	Sq. Ft.	785
Temporary Steel I-Beam Guard Rail, Attached to Structures	Foot	50

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 025-2023**



PLAN



SECTION A-A

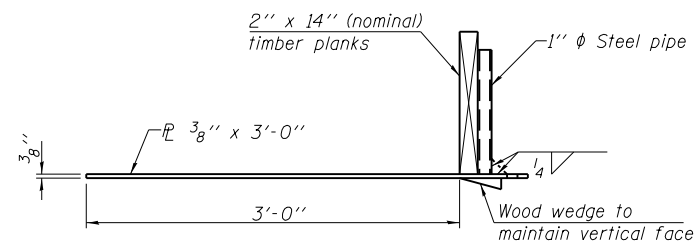
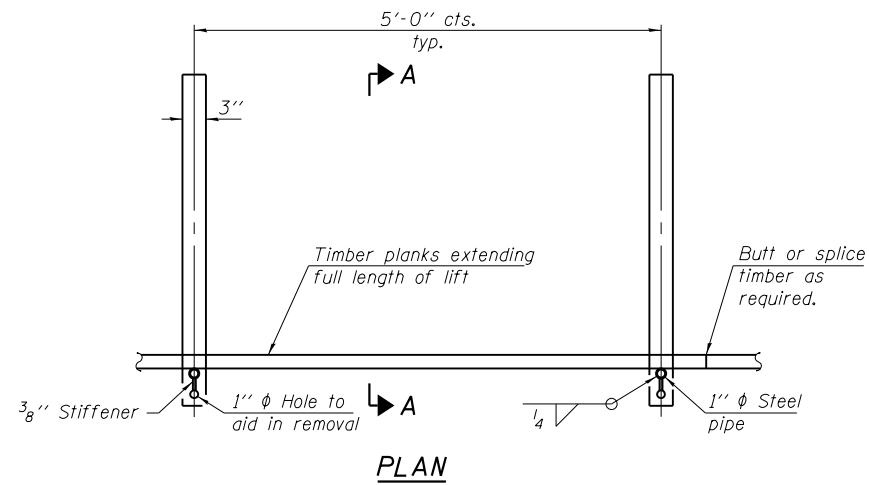
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Geotextile Retaining Wall	Sq. Ft.	184

**GEOTEXTILE RETAINING WALL
STRUCTURE NO. 025-2023**

	JOB = 2223.4	DESIGNED A.A.N.
	FILE = 0252023-94698-002-003-2223.4stage.dgn	CHECKED R.K. & M.D.C.
	DATE = 9/8/2015	DRAWN S.J.S.
		CHECKED A.A.N. & M.D.C.

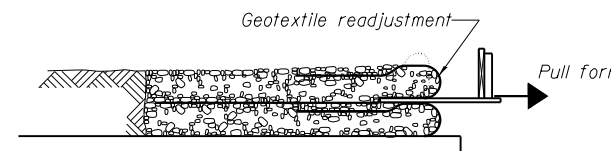
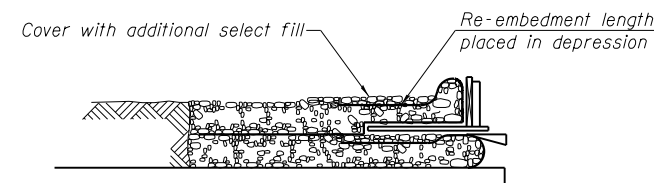
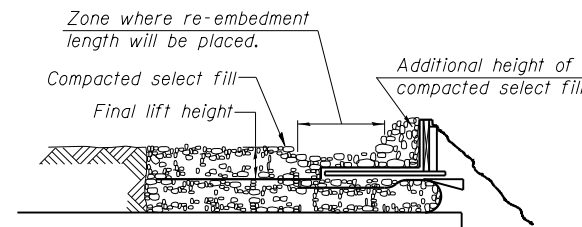
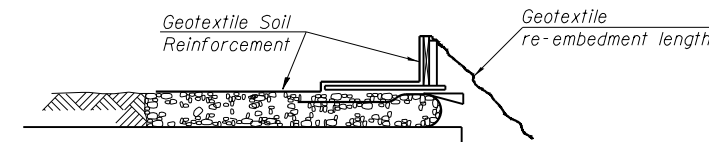
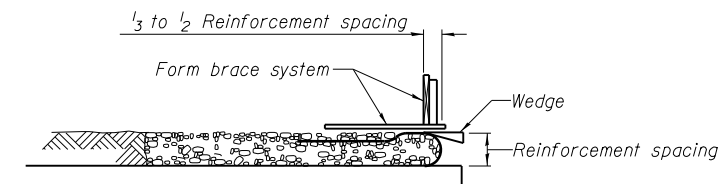
Sheet 3 of 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1652	(13BY)B-1	EFFINGHAM	53	30
	CONTRACT NO. 94698				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



SECTION A-A

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

TEMPORARY GEOTEXTILE FORM BRACE DETAIL



1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.

2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.

3. Compact select fill material in lifts to final lift height, create ($\pm 3''$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.

4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3''$) to embed geotextile and bring to final lift height.

5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

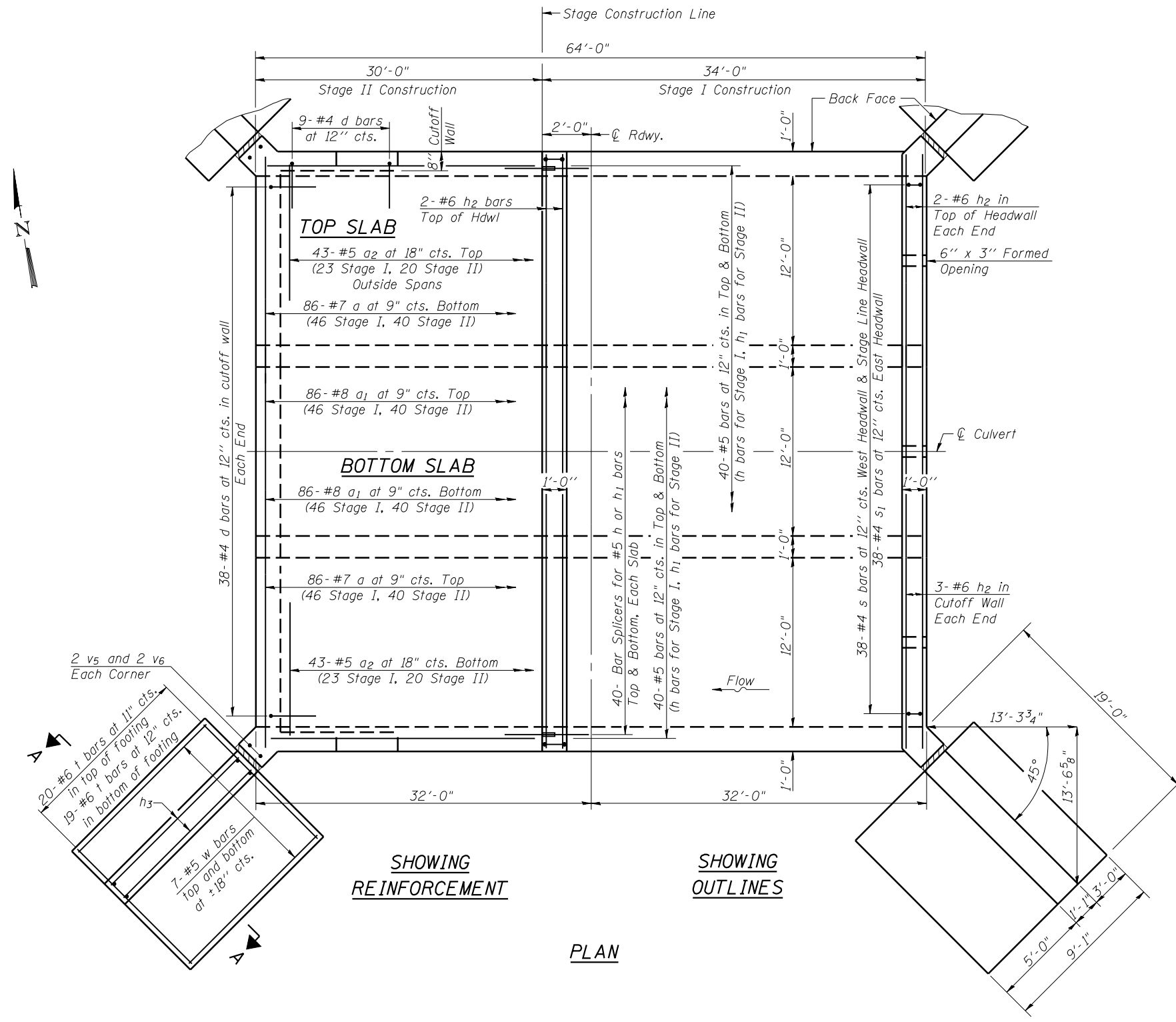
TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 30 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

GEOTEXTILE RETAINING WALL STRUCTURE NO. 025-2023

JOB = 2223.4	DESIGNED A.A.N.
FILE = 0252023-94698-004-2223.4geotextilewall.dgn	CHECKED R.K. & M.D.C.
DATE = 8/12/2015	DRAWN S.J.S.
	CHECKED A.A.N. & M.D.C.

Sheet 4 of 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1652	(13BY)B-1	EFFINGHAM	53	31
CONTRACT NO. 94698					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



Note: See Sheet 6 of 9 for Section A-A.

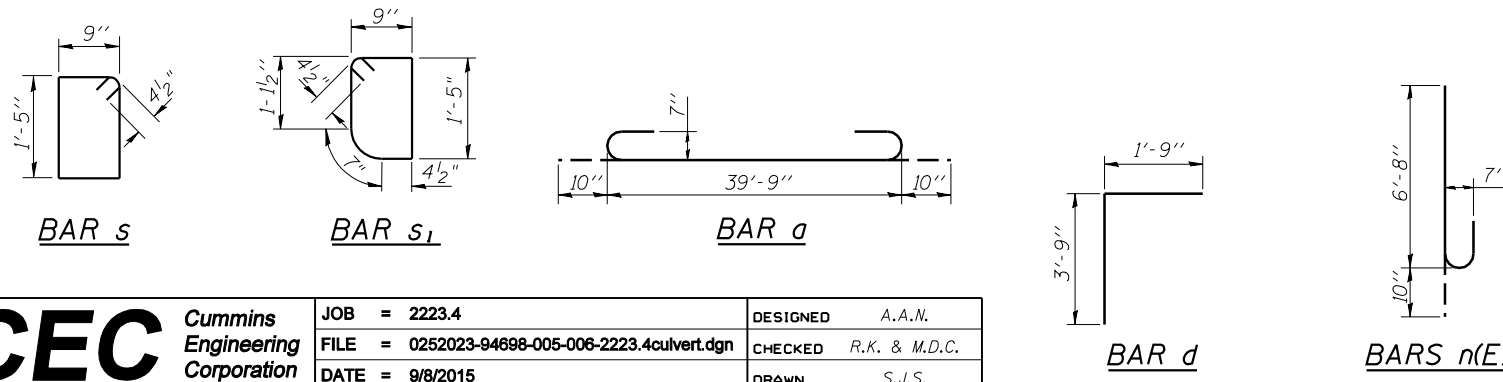
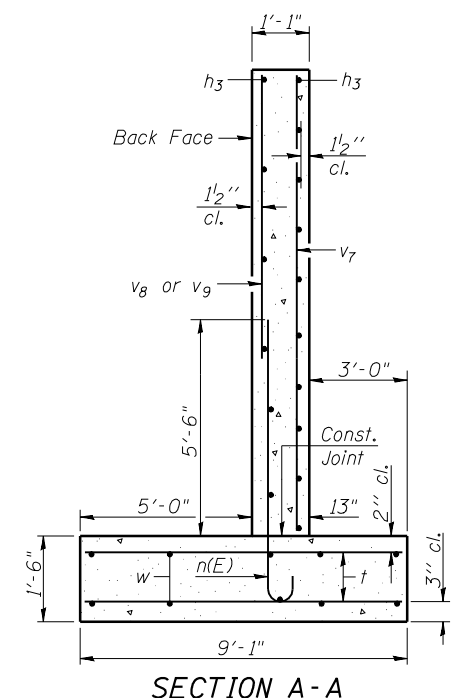
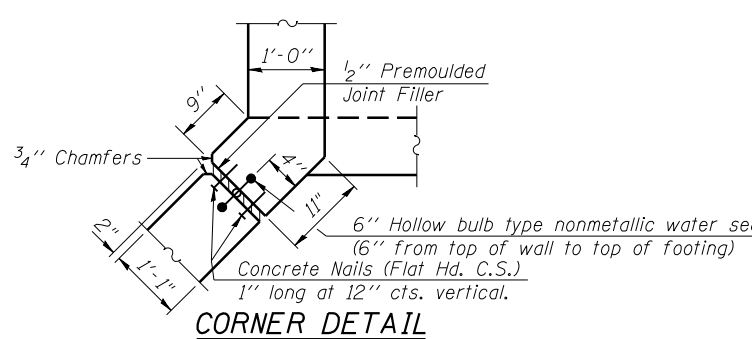
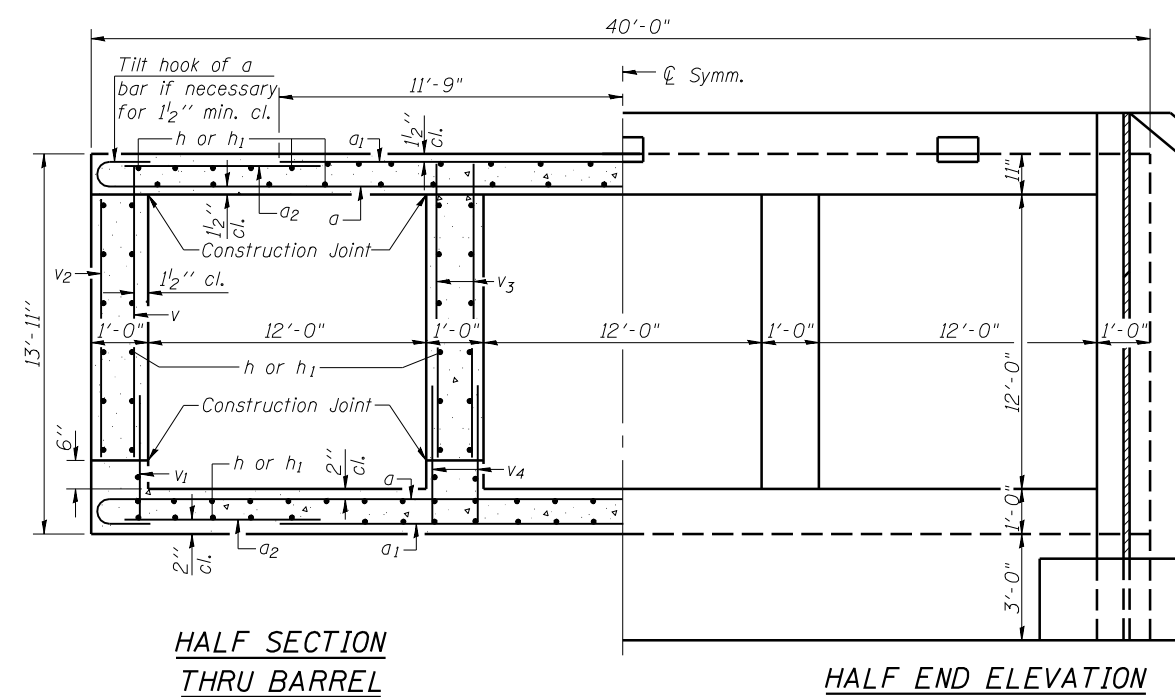
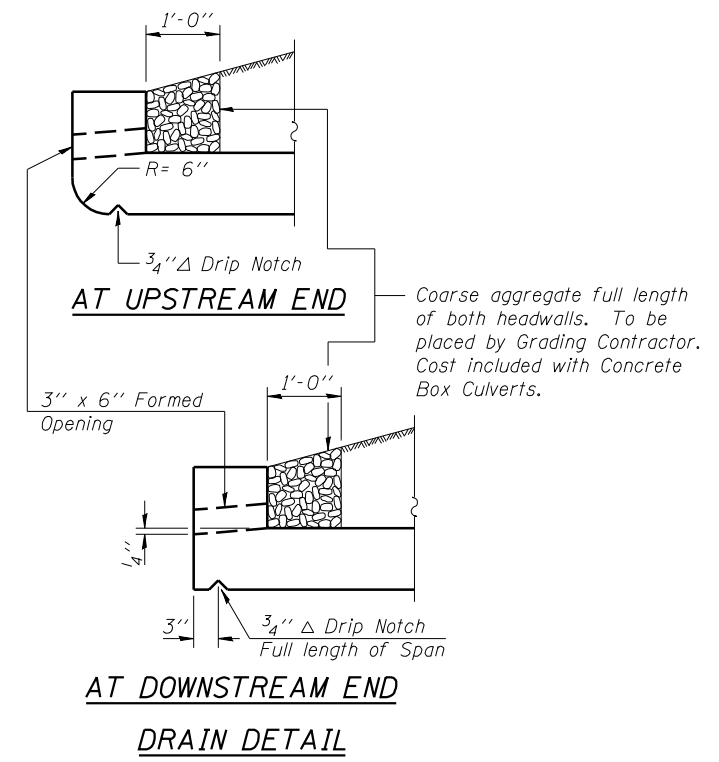
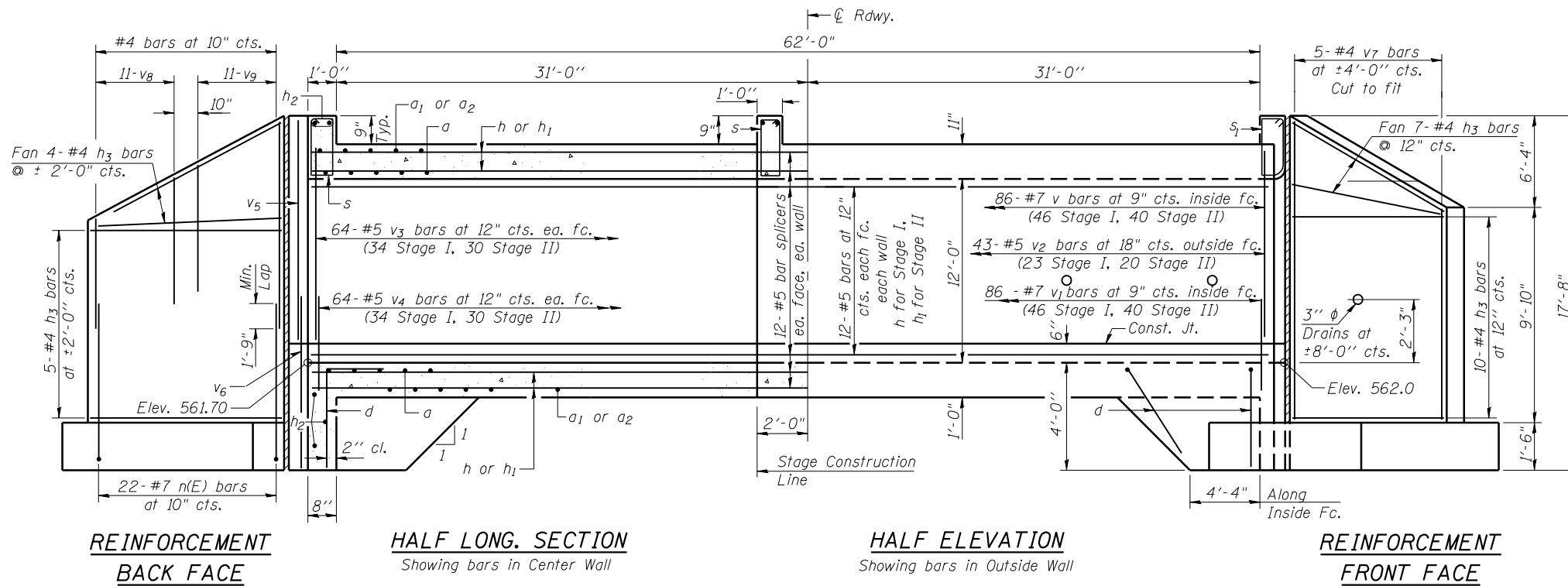
SHOWING REINFORCEMENT SHOWING OUTLINES

PLAN

CULVERT DETAILS
STRUCTURE NO. 025-2023

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2223.4	DESIGNED A.A.N.
	FILE = 0252023-94698-005-006-2223.4culvert.dgn	CHECKED R.K. & M.D.C.
	DATE = 9/8/2015	DRAWN S.J.S.
		CHECKED A.A.N. & M.D.C.

Sheet 5 of 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1652	(13BY)B-1	EFFINGHAM	53	32
	CONTRACT NO. 94698				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	172	#7	41'-5"	U
a ₁	172	#8	23'-6"	—
a ₂	172	#5	9'-10"	—
d	112	#4	5'-6"	—
h	256	#5	33'-9"	—
h ₁	256	#5	29'-9"	—
h ₂	12	#6	39'-9"	—
h ₃	104	#4	17'-10"	—
n(E)	88	#7	7'-6"	U
t	156	#6	8'-9"	—
v	172	#7	12'-1"	—
v ₁	172	#7	3'-7"	—
v ₂	86	#5	11'-2"	—
v ₃	256	#5	12'-1"	—
v ₄	256	#5	3'-3"	—
v ₅	8	#5	12'-10"	—
v ₆	8	#5	6'-3"	—
v ₇	20	#4	15'-10"	—
v ₈	44	#4	9'-0"	—
v ₉	44	#4	12'-6"	—
w	56	#5	17'-10"	—
s	76	#4	5'-1"	□
s ₁	38	#4	5'-0"	□
Concrete Box Culverts	Cu. Yd.		382.5	
Reinforcement Bars, Epoxy Coated	Pound		1350	
Reinforcement Bars	Pound		61530	

**CULVERT DETAILS
STRUCTURE NO. 025-2023**

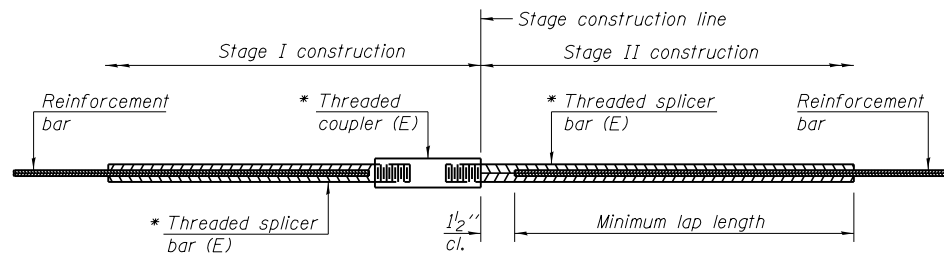
CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2223.4
FILE = 0252023-94698-005-006-2223.4culvert.dgn
DATE = 9/8/2015

DESIGNED A.A.N.
CHECKED R.K. & M.D.C.
DRAWN S.J.S.
CHECKED A.A.N. & M.D.C.

Notes:
Reinforcement bars designated (E) shall be epoxy coated.
Max. Applied Service Soil Pressure under footing $Q_{max} = 3408$ psf.

Sheet 6 of 9	F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1652	(13BY)B-1	EFFINGHAM	53	33
CONTRACT NO. 94698					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

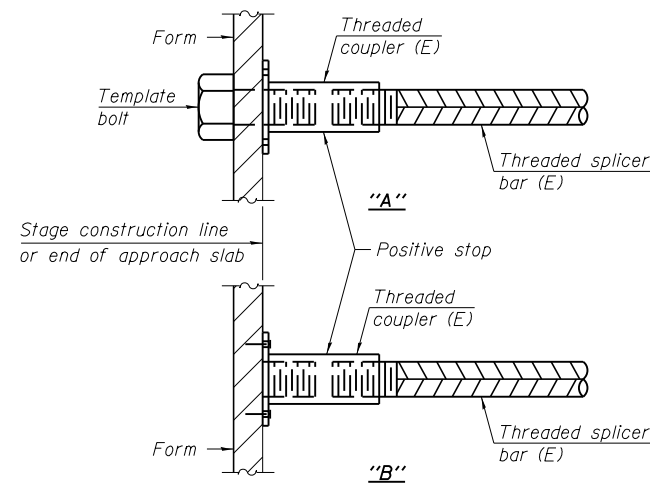


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	80	2'-7"
Bottom Slab	#5	80	2'-7"
Walls	#5	96	2'-7"

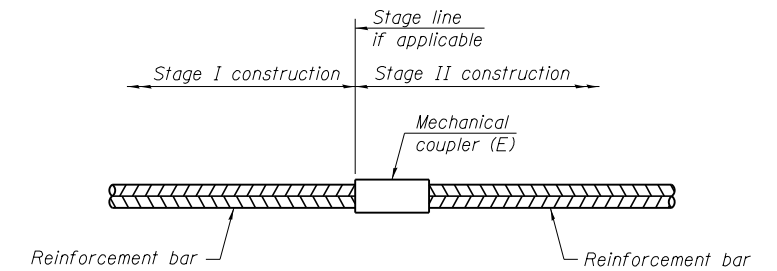


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

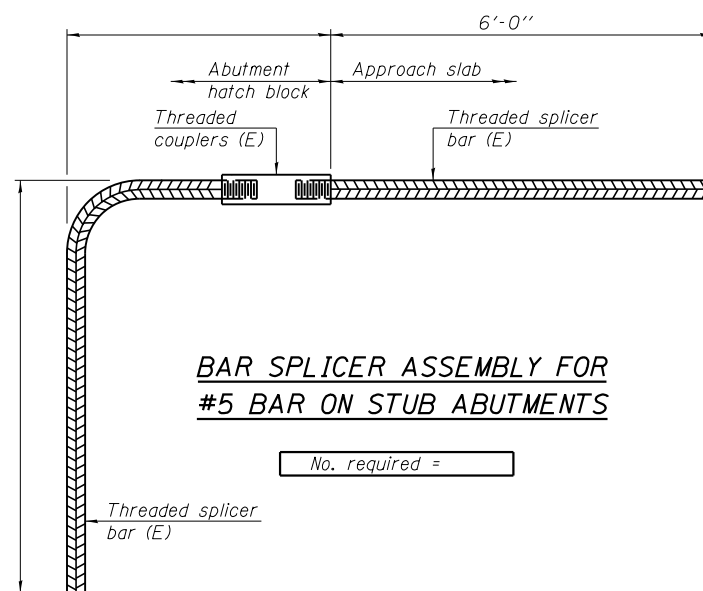
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 025-2023**

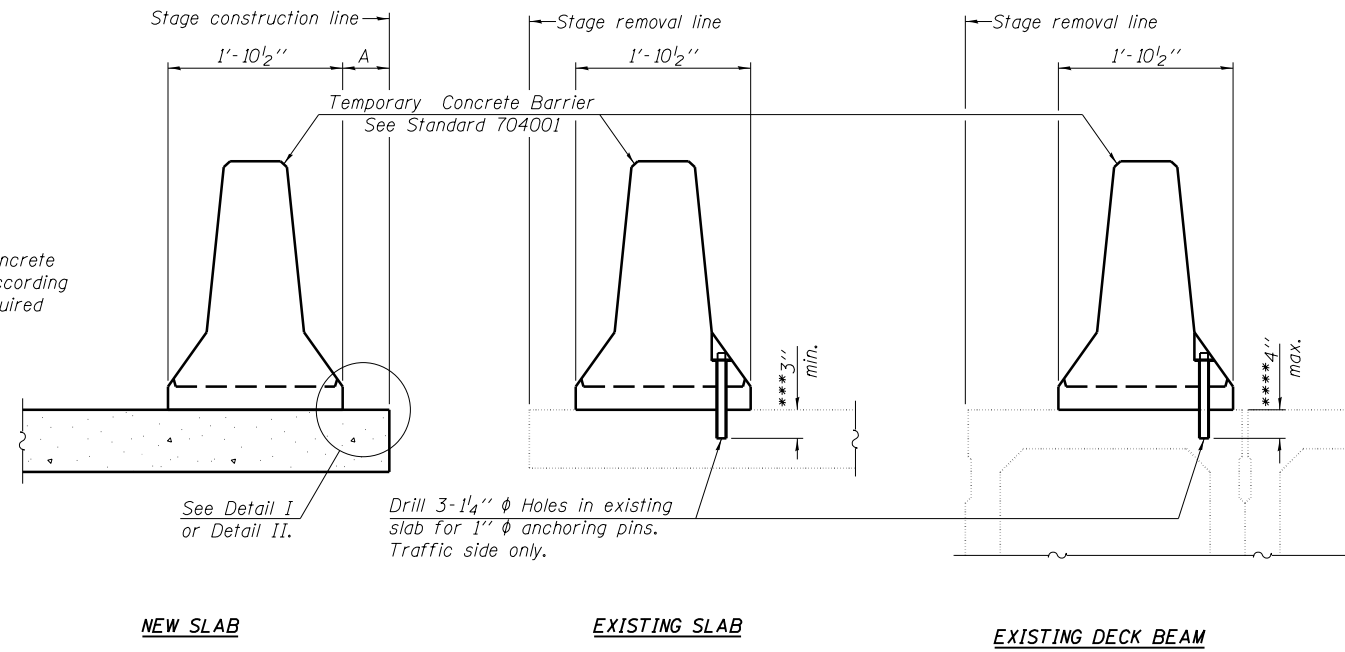
BSD-1 6-8-15



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DATE = 8/12/2015	DRAWN S.J.S.
	CHECKED A.A.N. & M.D.C.

Sheet 7 of 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1652	(13BY)B-1	EFFINGHAM	53	34
CONTRACT NO. 94698					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

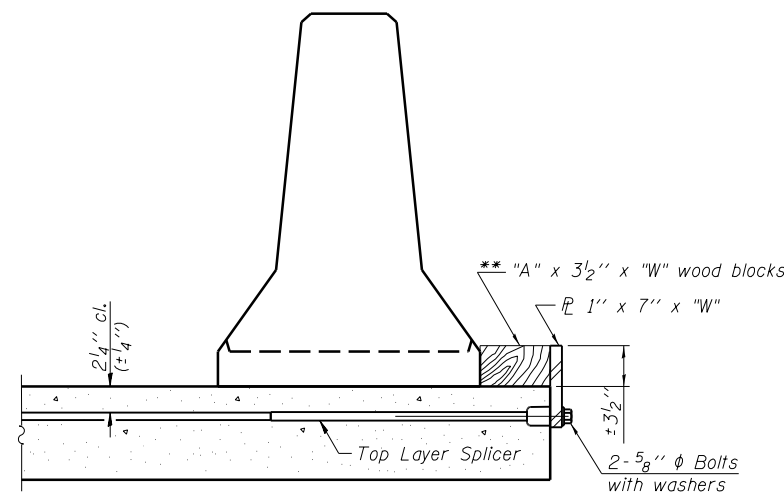
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

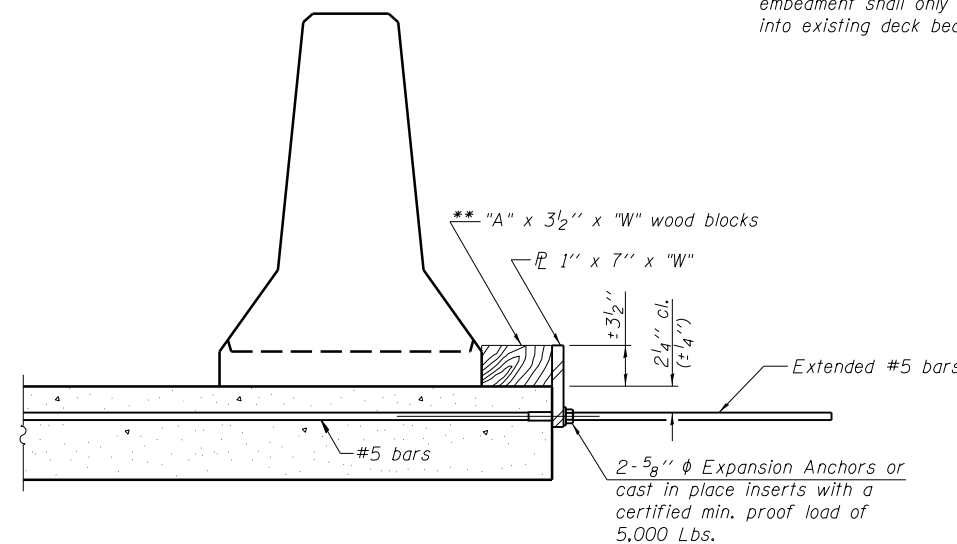
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

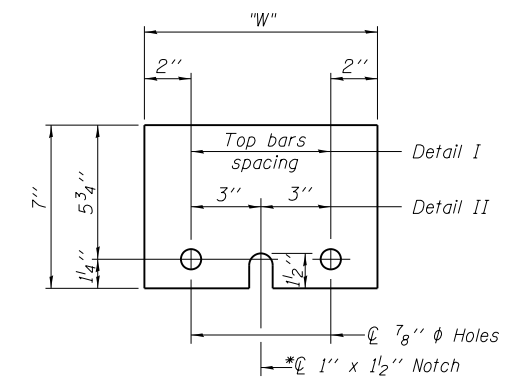
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 025-2023**

R-27

1-12-15

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

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DATE = 8/12/2015	DRAWN S.J.S.
	CHECKED A.A.N. & M.D.C.

Sheet 8 of 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1652	(13BY)B-1	EFFINGHAM	53	35
			CONTRACT NO. 94698		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

SOIL BORING LOG

ROUTE FAS 1652 (US 45) DESCRIPTION Green Creek LOGGED BY E. Sandschafer

SECTION (13BY)B-1 LOCATION NE 1/4, SEC. 27, TWP. 9 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
025-0024	262+10					Surface Water Elev. 564.94 ft Stream Bed Elev. 563.40 ft				
1	261+72					Groundwater Elev.: First Encounter Dry ft Upon Completion Dry ft After 144 Hrs. 556.2 ft				
		580.79				7 1/2" asphalt shoulder.		12	8.4	10
						Soft, very damp, brown, SILTY CLAY.		17	S	
			2					9		
			2	0.3	25			13	8.2	10
			2	B				50/2"	S	
		576.29				Medium, damp, brown, SILTY LOAM.		12		
			-5	1				-25	12	
			2	0.6	17			17		
			2	PP		No recovery this trip - possible cobble in sampler shoe.		19		
		573.79				Soft to medium, damp, brown, CLAY LOAM.		8		
			0					9	4.7	9
			2	0.5	13			13	B	
		571.29				Soft, very damp, red/brown/black, LOAM.		7		
			-10	1	15			11	4.6	9
			2	B				14	B	
			0							
			0	0.3	20					
			2	B						
		566.29				Very stiff, damp, gray to brown, CLAY LOAM TILL.		7		
			-15	2				-35	11	5.0
			3	2.5	11			11	B	10
			4	B				15	B	
		544.79				Extent of exploration.				
			7							
			10	2.7	11					
			13	B		Benchmark: BM 603 chiseled square on NE corner of existing bridge, Sta 262+30, 22' Rt = 579.56' elevation. Provided by Program Development.				
		560.79						-40		
			-20	6						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE FAS 1652 (US 45) DESCRIPTION Green Creek LOGGED BY E. Sandschafer

SECTION (13BY)B-1 LOCATION NE 1/4, SEC. 27, TWP. 9 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
025-0024	262+10					Surface Water Elev. 564.94 ft Stream Bed Elev. 563.40 ft				
2	262+45					Groundwater Elev.: First Encounter 557.6 ft Upon Completion 546.1 ft After 144 Hrs. 568.7 ft				
		579.06				5 1/2" asphalt shoulder.		17	8.2	8
						Stiff, damp, brown, SILTY CLAY.		20	S	
								4		
			4	1.5	13			4	1.5	13
			5	PP				5		
		575.06				Soft to medium, damp, gray, SANDY LOAM.				
			-5	3				-25	7	
			3	0.5	19			10	5.3	10
			3	B				15	B	
		570.06				Medium, damp, brown marbled gray, CLAY LOAM.				
			0					6		
			2					10	4.4	11
			3	0.7	15			12	B	
		566.56				Very soft, very damp, gray, SANDY LOAM.				
			1	0.2	20			6		
			2	B				8	3.7	12
			3	B				12	B	
		565.06				Hard, very moist, gray, CLAY LOAM TILL.				
			-15	8				-35	5	
			8	7.7	10			8	3.1	11
			12	S				12	B	
			17							
		543.56				Extent of exploration.				
		562.56				Hard, very moist, gray, CLAY TILL.				
			5							
			8	5.0	14					
			15	B		Benchmark: BM 603 chiseled square on NE corner of existing bridge, Sta 262+30, 22' Rt = 579.56' elevation. Provided by Program Development.				
		560.06						-40		
			-20	11						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

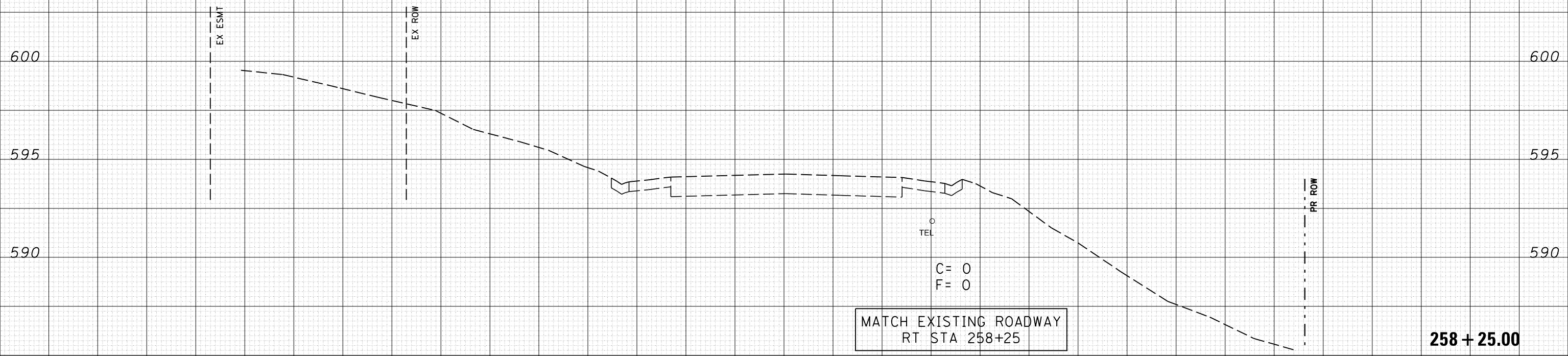
BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS
STRUCTURE NO. 025-2023

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-shr-xsUS45.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 10.000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -

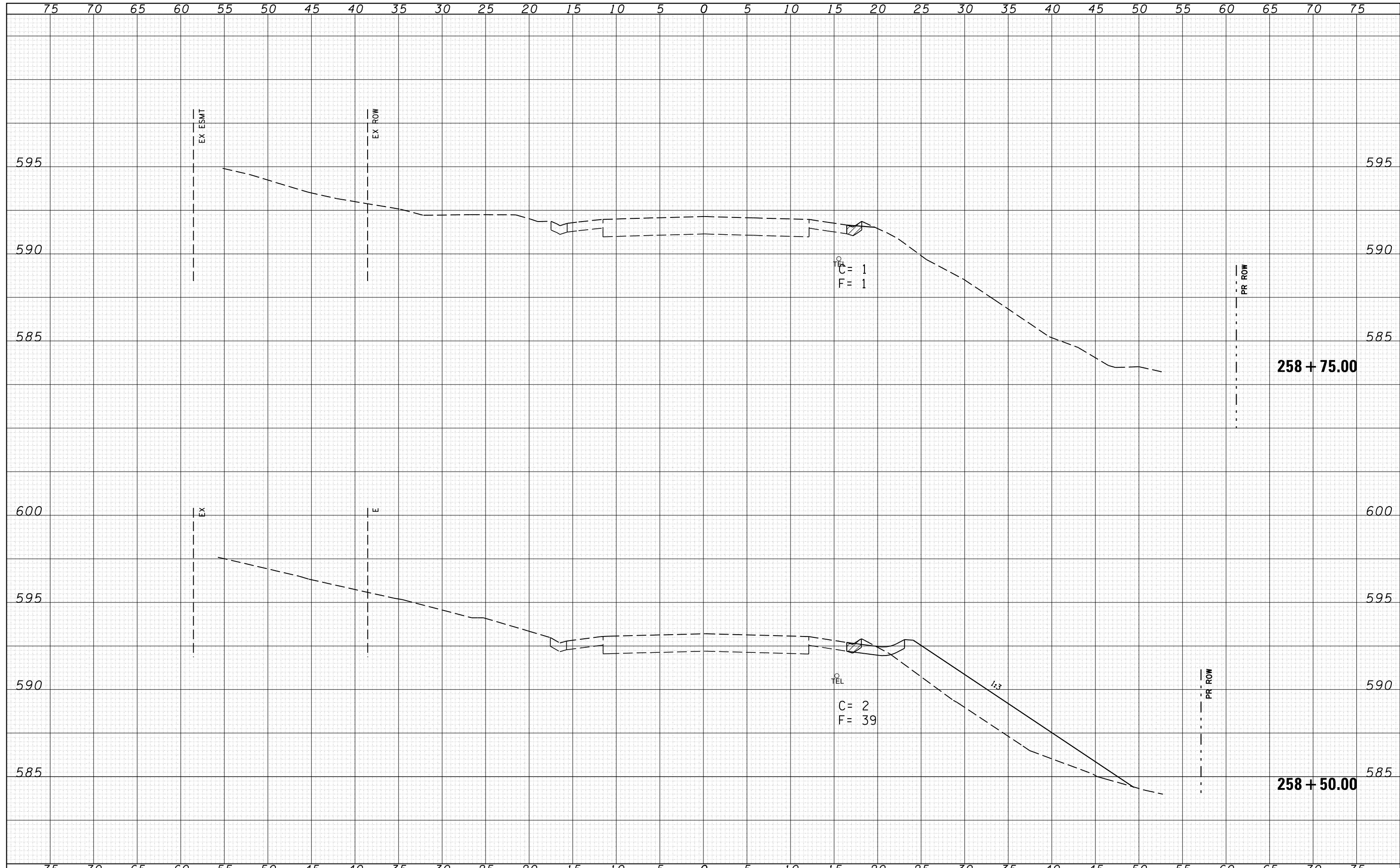
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	37
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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NOTE BOOK	PLOTTED
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JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-shr-xsUS45.dgn	DRAWN - AJH	REVISED -
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PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -

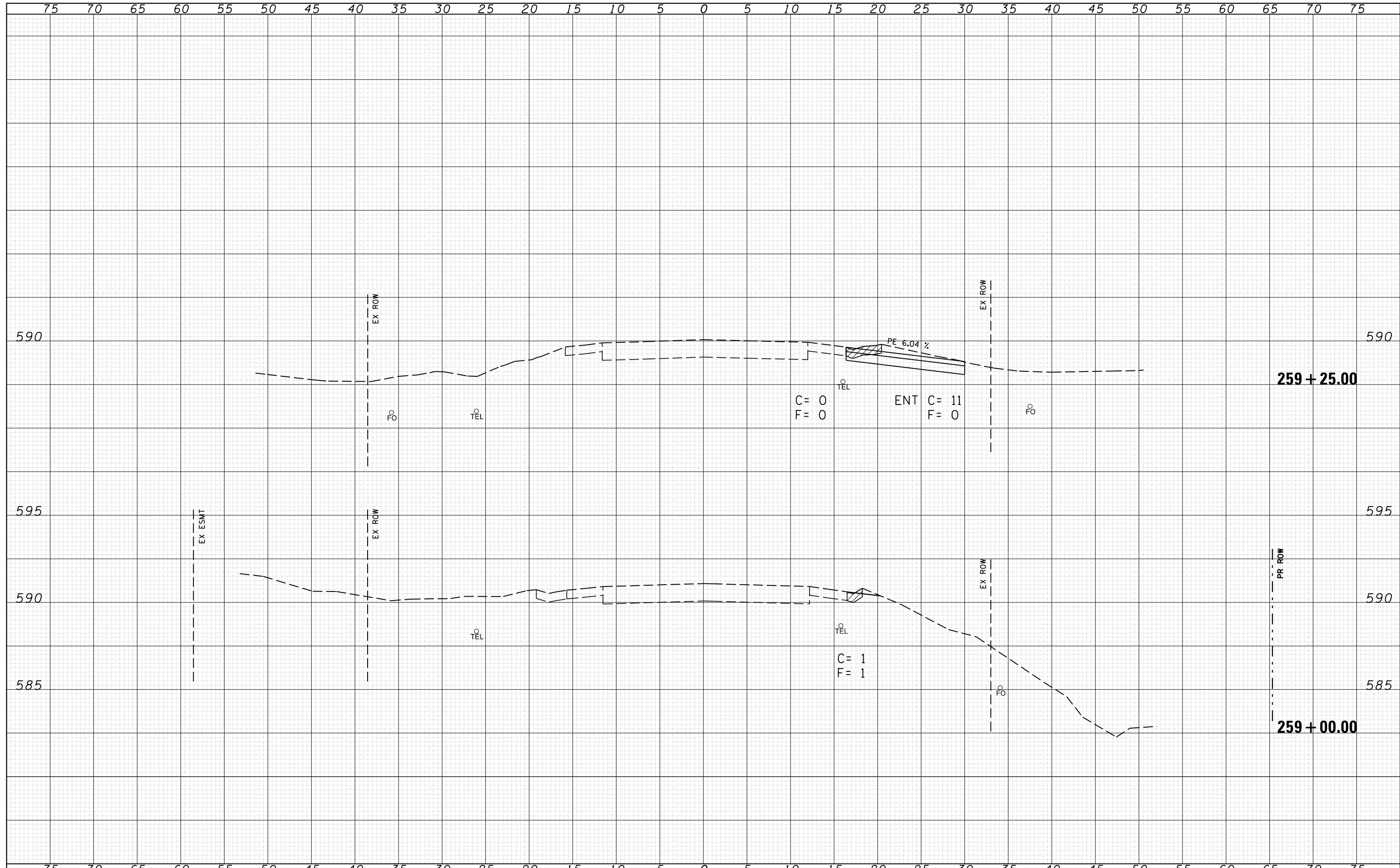
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - US 45

F.A.S. RTE. 1652	SECTION (13BY) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 38
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-shr-xsUS45.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 10.000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -

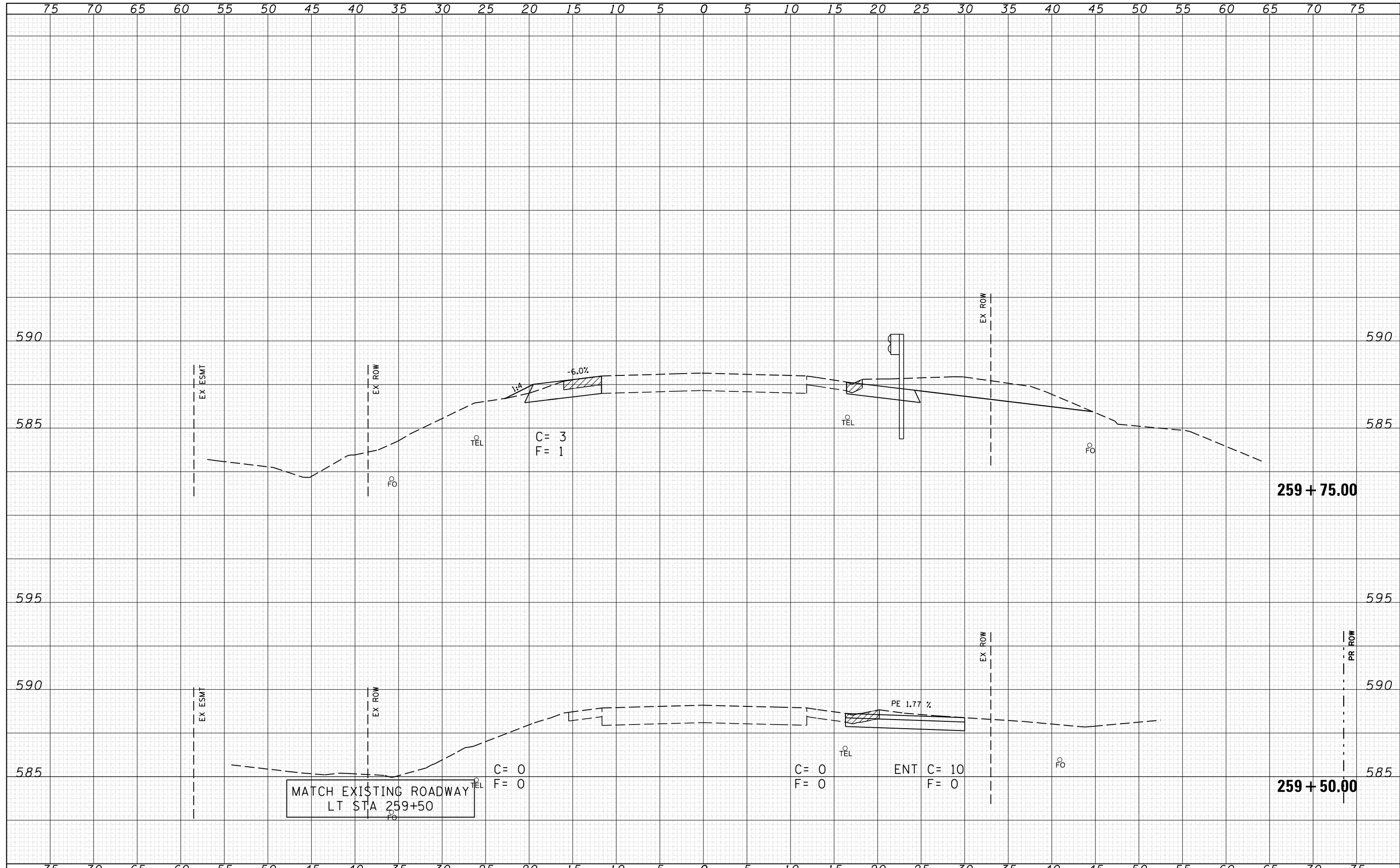
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	39
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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ORIGINAL SURVEY	SURVEYED
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JOB = 2223.4
 FILE NAME = 0794698-shr-xsUS45.dgn
 PLOT SCALE = 10.000' / in.
 PLOT DATE = 8/12/2015

DESIGNED - NAK
 DRAWN - AJH
 CHECKED - NAK
 DATE - 12/2/2011

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

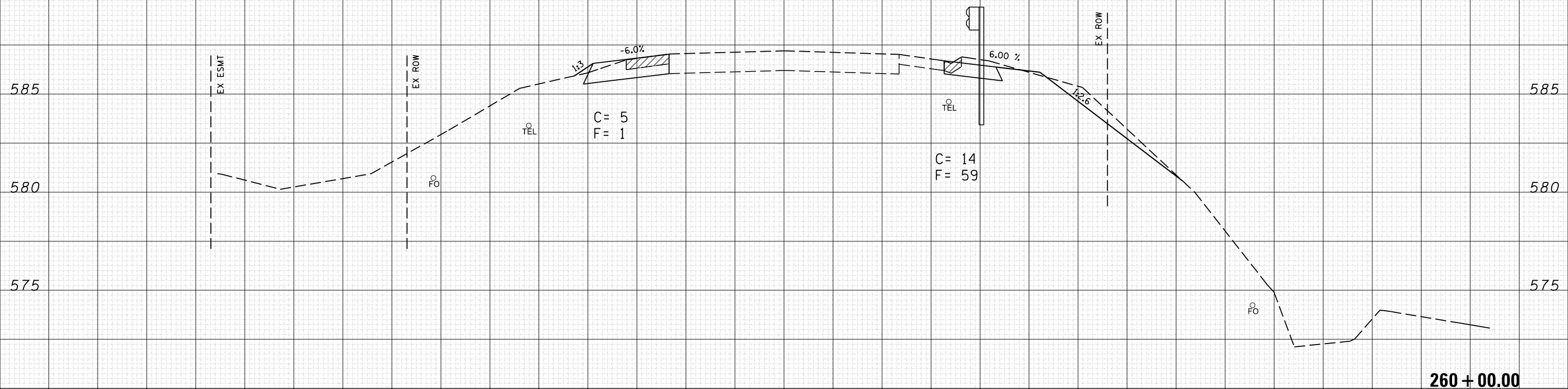
CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	40
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
FINAL SURVEY NO.	NOTE BOOK NO.	AREAS CHECKED			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY NO.	NOTE BOOK NO.	AREAS CHECKED			



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-shr-xsUS45.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 10.000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

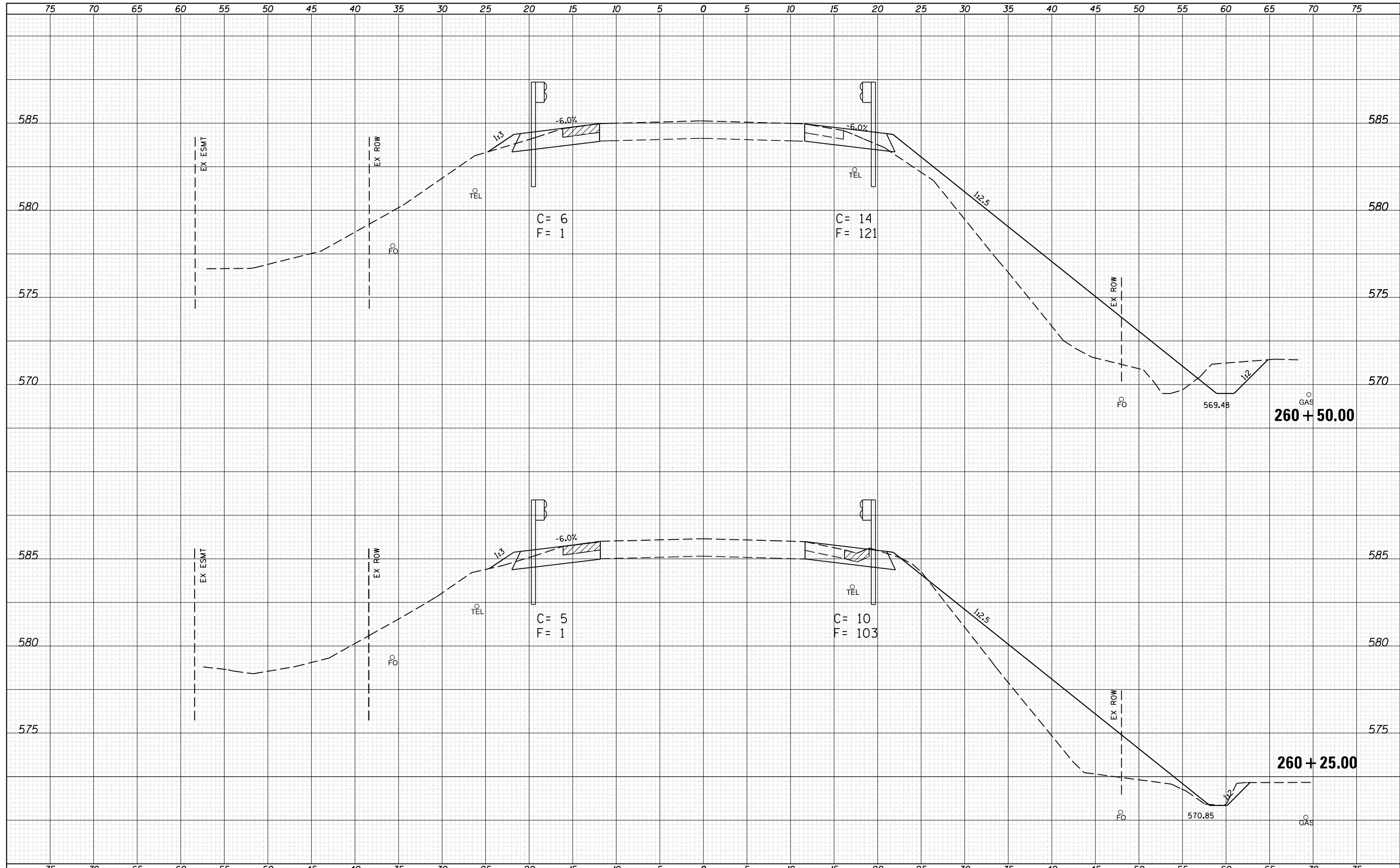
CROSS SECTIONS - US 45

F.A.S. RTE. 1652	SECTION (13BY) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 41
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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JOB = 2223.4
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 PLOT SCALE = 10.000' / in.
 PLOT DATE = 8/12/2015

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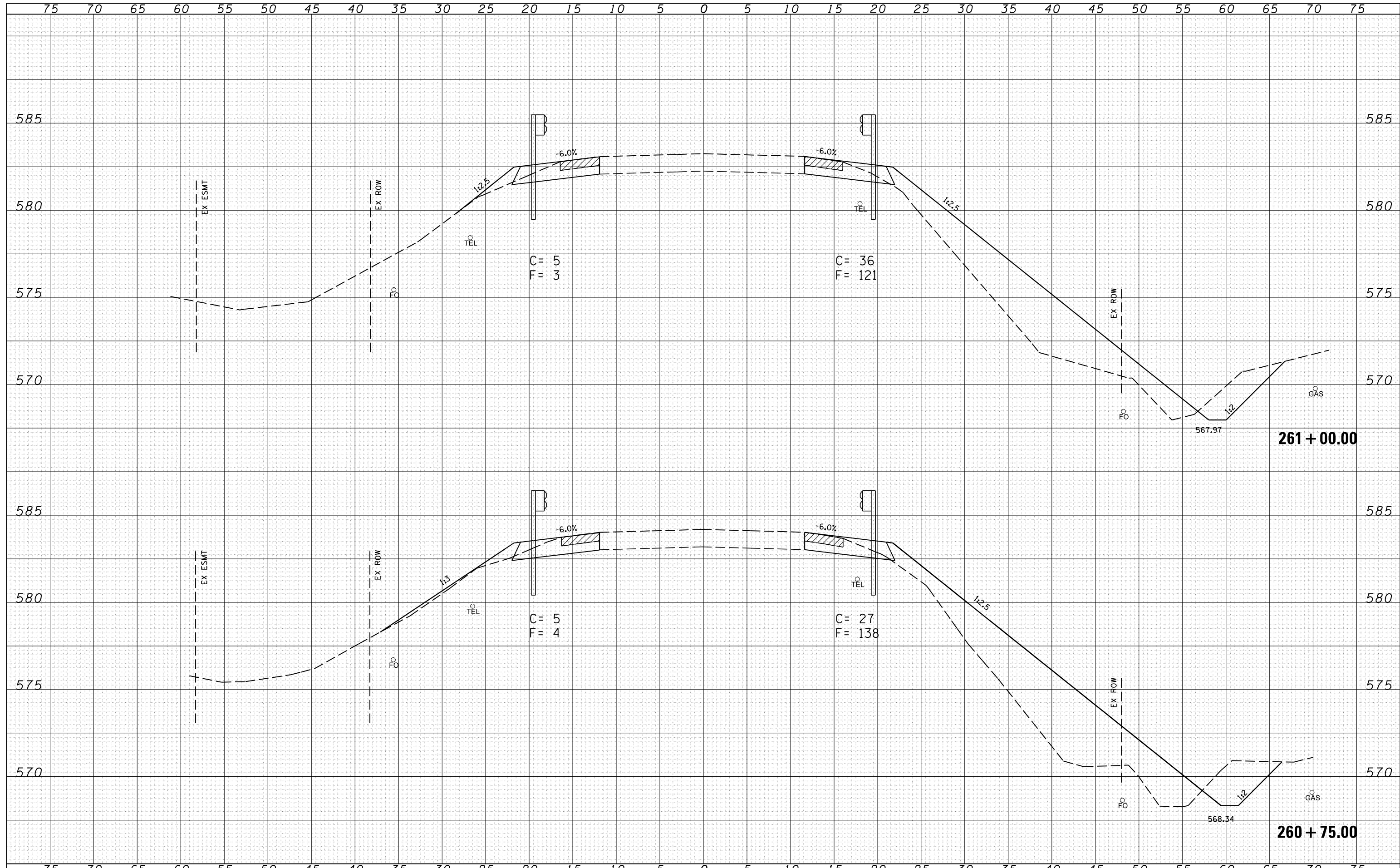
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-shr-us45.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 10.000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -

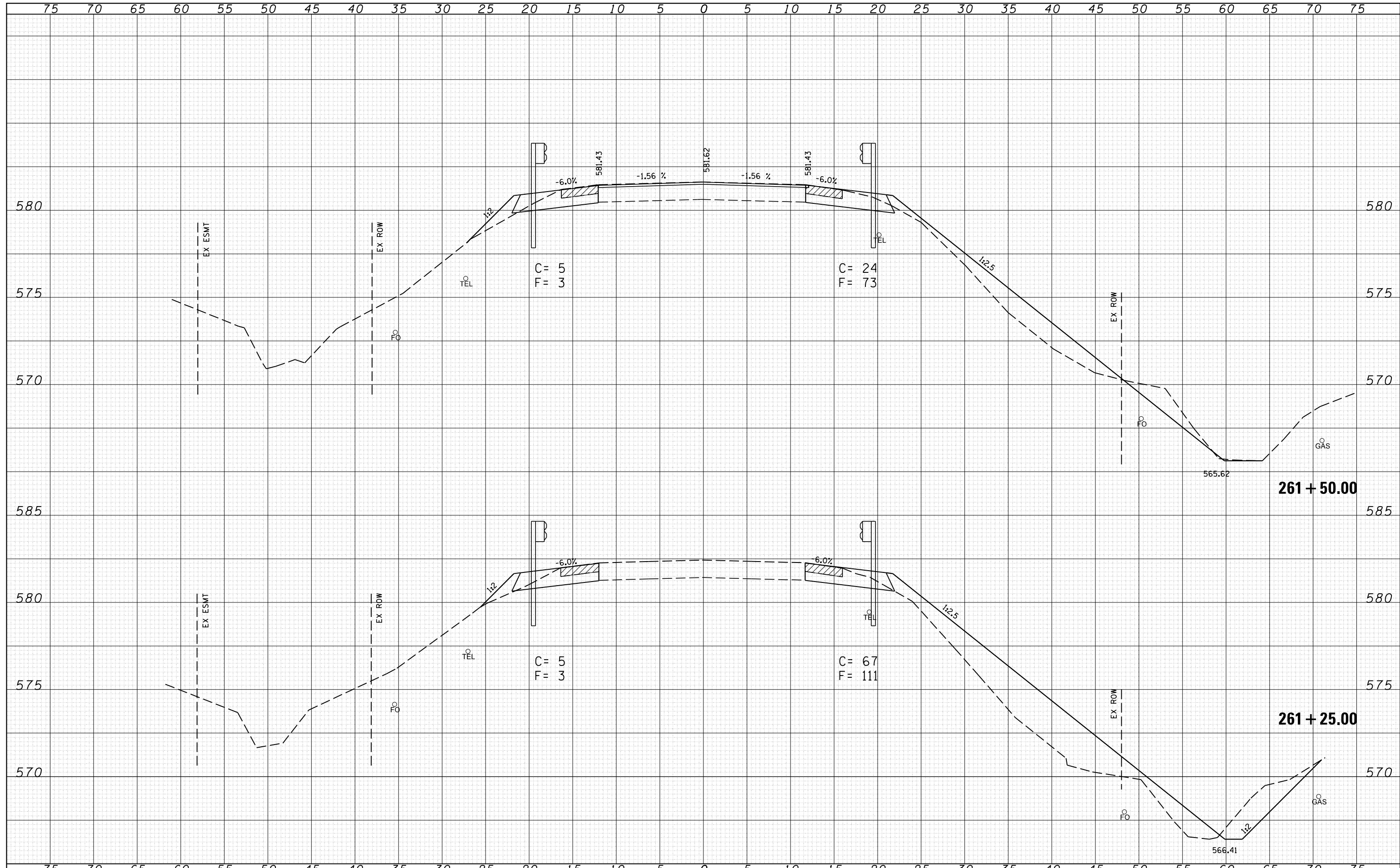
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	43
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		CONTRACT NO.	94698	

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CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2223.4
FILE NAME = 0794698-shr-us45.dgn
PLOT SCALE = 10.000' / in.
PLOT DATE = 8/12/2015

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DATE - 12/2/2011

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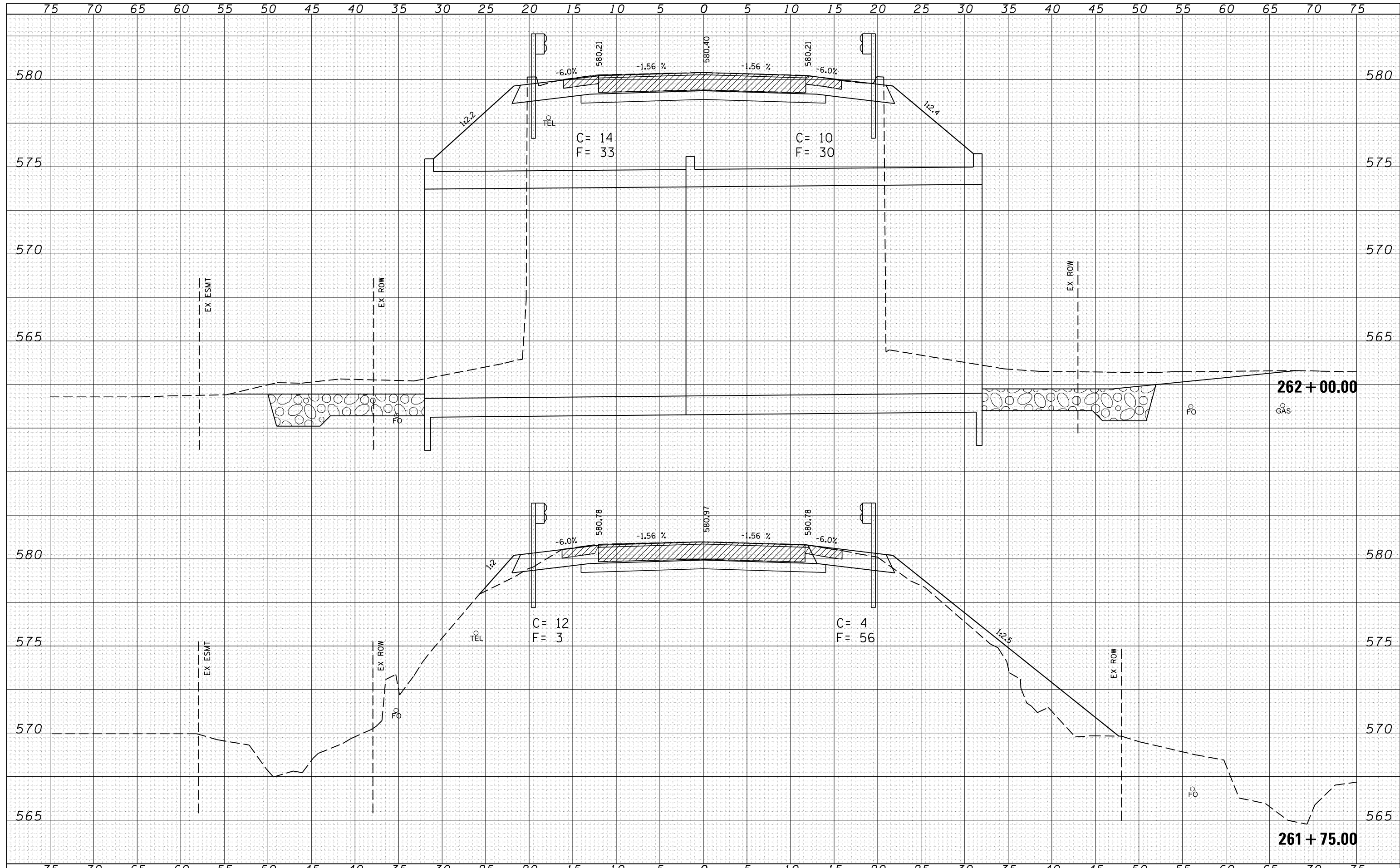
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	44
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

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JOB = 2223.4
 FILE NAME = 0794698-shr-us45.dgn
 PLOT SCALE = 10.000' / in.
 PLOT DATE = 8/12/2015

DESIGNED - NAK
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 DATE - 12/2/2011

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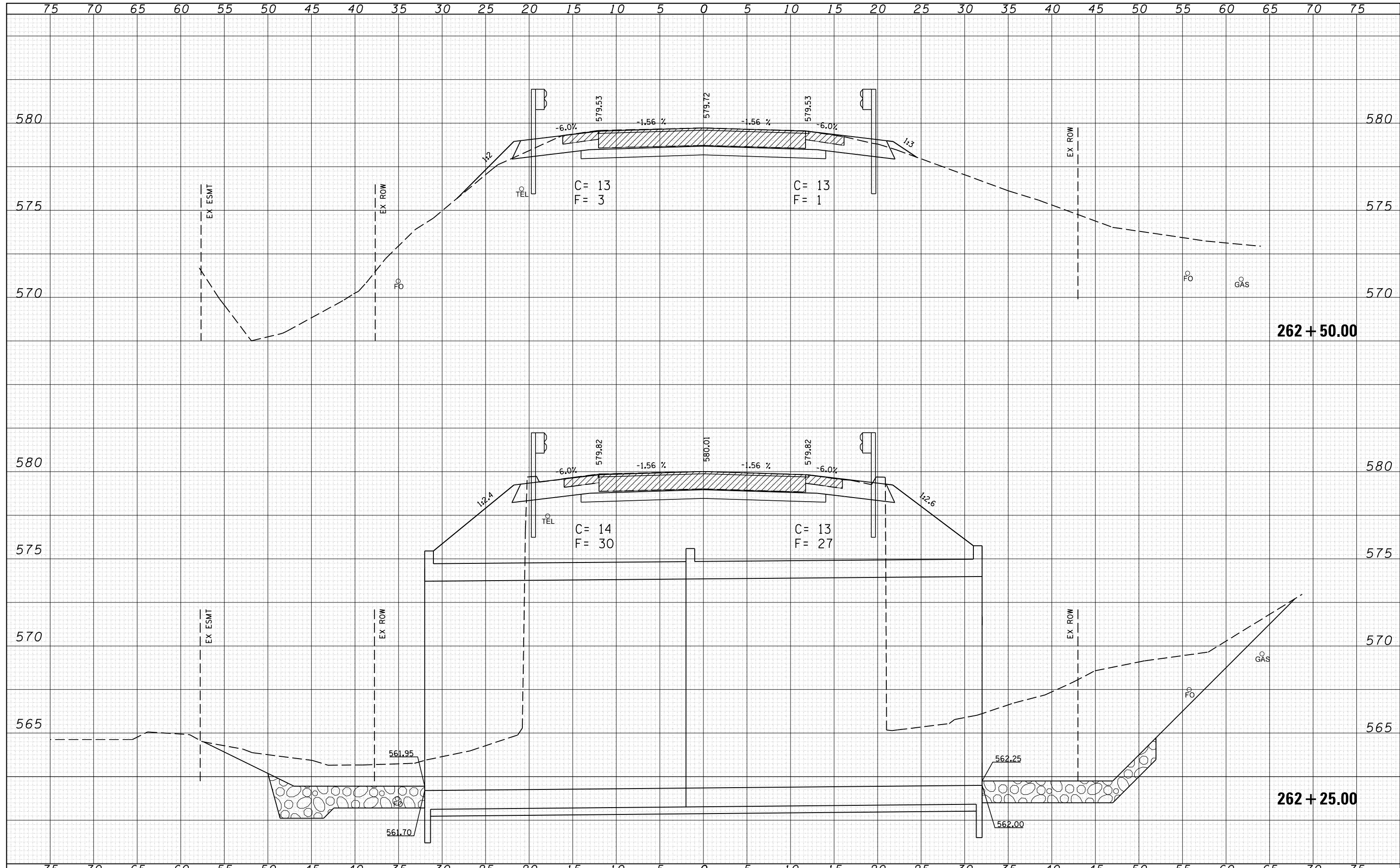
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94698	

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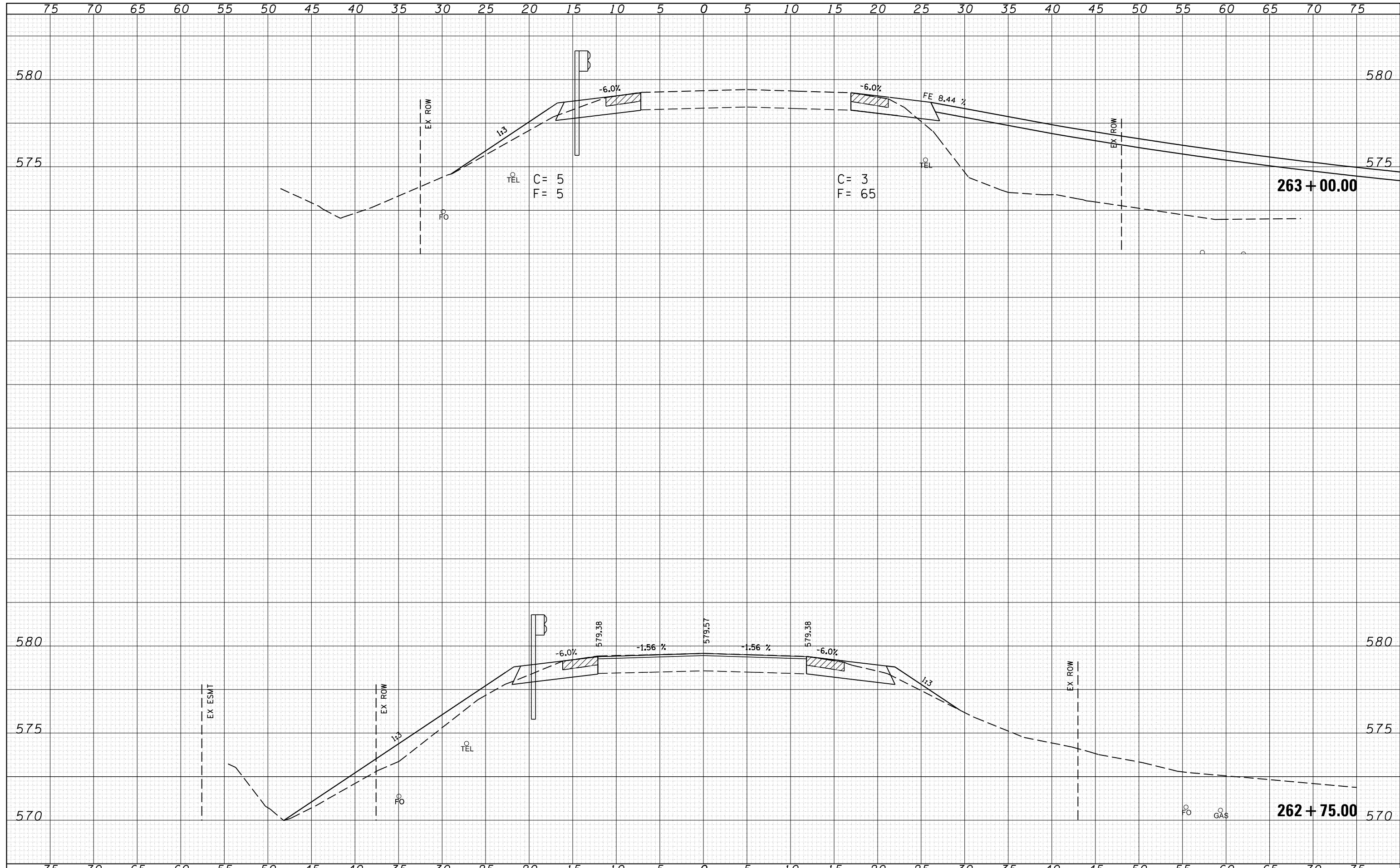
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CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2223.4	DESIGNED - NAK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - US 45	F.A.S. RTE. 1652	SECTION (13BY) B-1	COUNTY EFFINGHAM	TOTAL SHEETS 53	SHEET NO. 46
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	PLOT SCALE = 10.000' / 1" =	CHECKED - NAK	REVISED -							
	PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -							

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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CEC Cummins
Engineering Corporation
Civil and Structural Engineering

JOB = 2223.4	DESIGNED - NAK	REVISED -
FILE NAME = 0794698-shr-xsUS45.dgn	DRAWN - AJH	REVISED -
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PLOT DATE = 8/12/2015	DATE - 12/2/2011	REVISED -

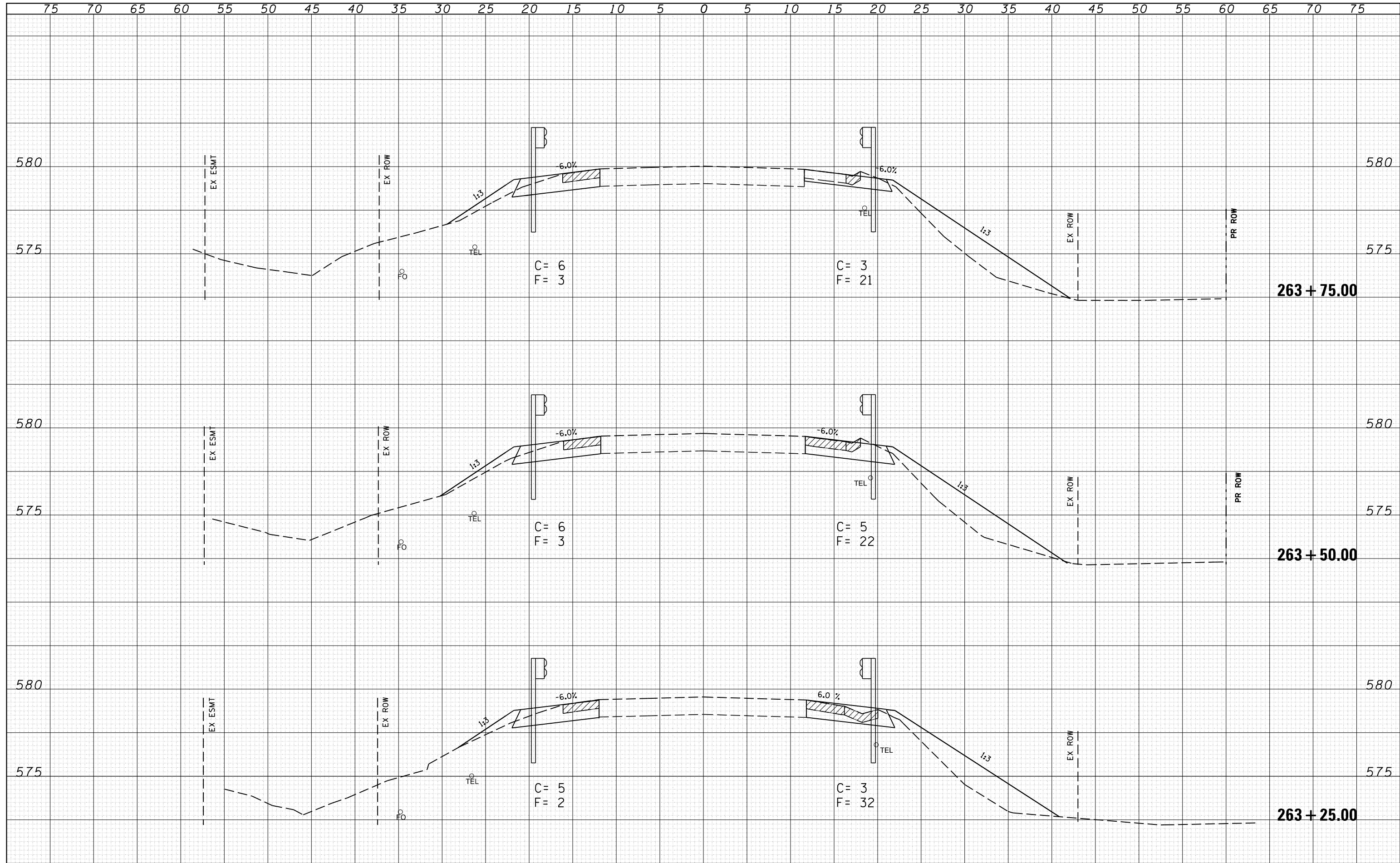
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	47
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			CONTRACT NO. 94698	

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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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JOB = 2223.4
 FILE NAME = 0794698-shr-xsUS45.dgn
 PLOT SCALE = 10.000' / in.
 PLOT DATE = 8/12/2015

DESIGNED - NAK
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 DATE - 12/2/2011

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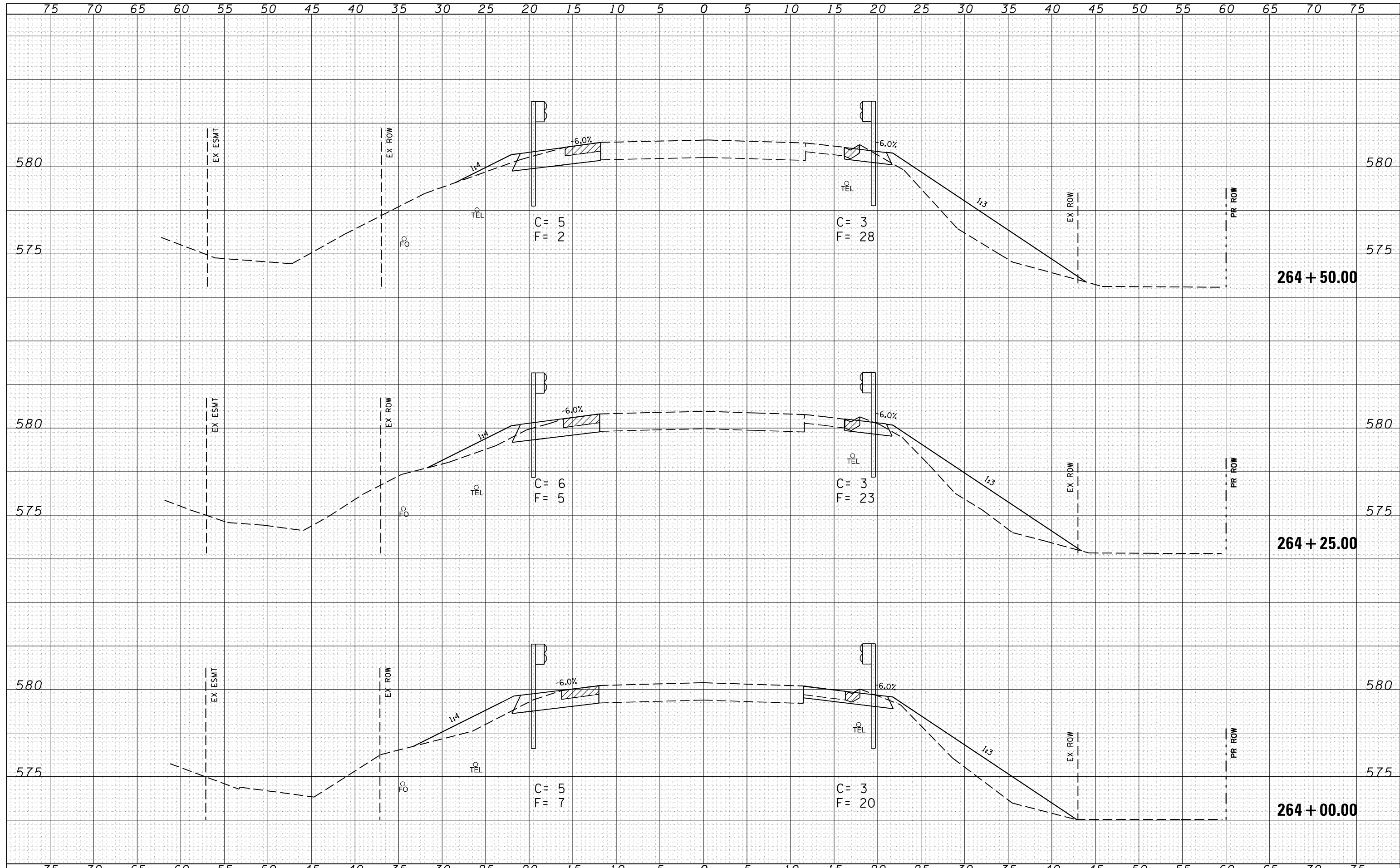
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	48
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

DATE	
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FINAL SURVEY	
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JOB = 2223.4
 FILE NAME = 0794698-shr-xsUS45.dgn
 PLOT SCALE = 10.000' / in.
 PLOT DATE = 8/12/2015

DESIGNED - NAK
 DRAWN - AJH
 CHECKED - NAK
 DATE - 12/2/2011

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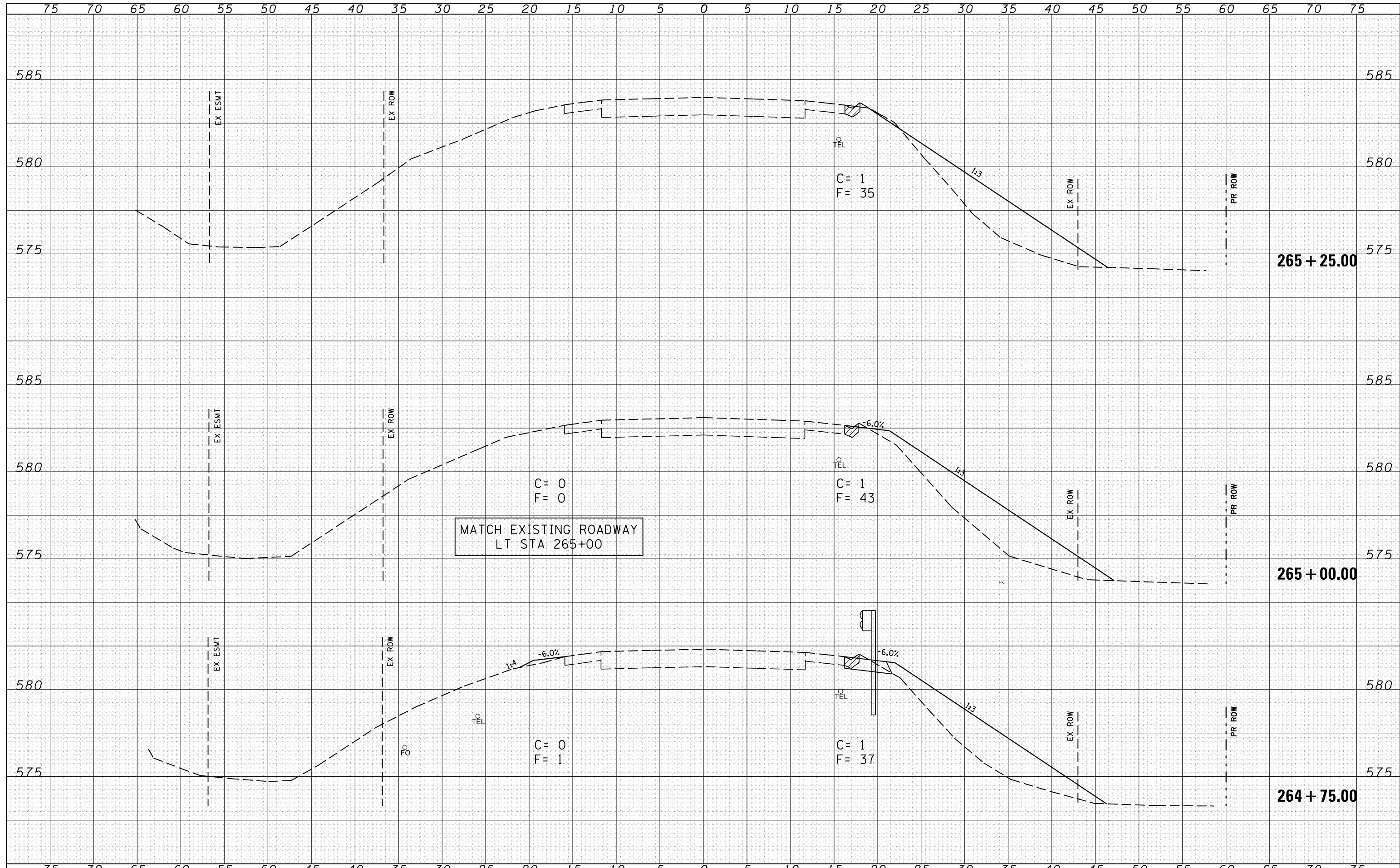
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	49
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

DATE	
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FINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
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ORIGINAL SURVEY	
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CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2223.4
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PLOT SCALE = 10.000' / in.
PLOT DATE = 8/12/2015

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DATE - 12/2/2011

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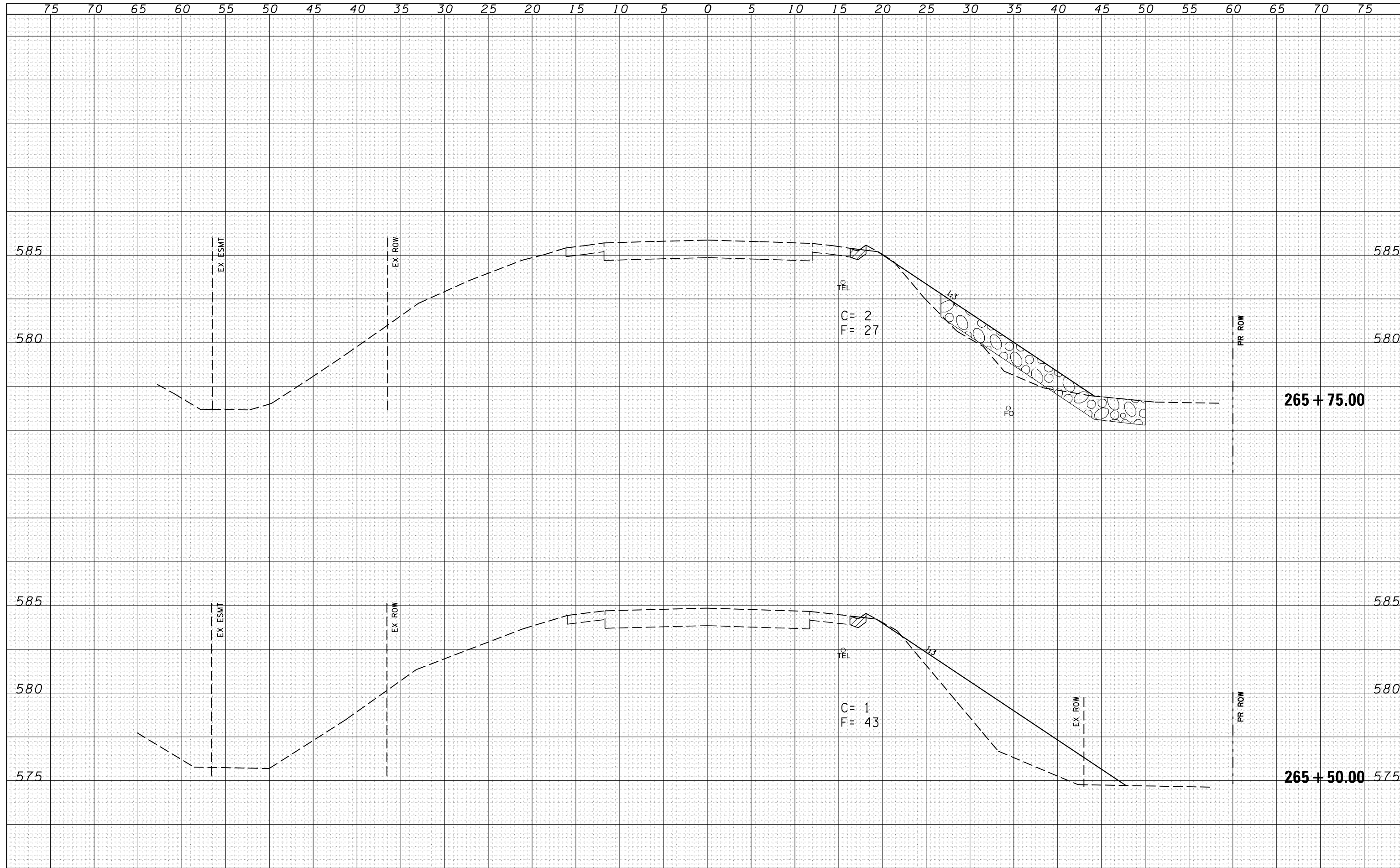
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	50
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2223.4
FILE NAME = 0794698-shr-xsUS45.dgn
PLOT SCALE = 10.000' / in.
PLOT DATE = 8/12/2015

DESIGNED - NAK
DRAWN - AJH
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DATE - 12/2/2011

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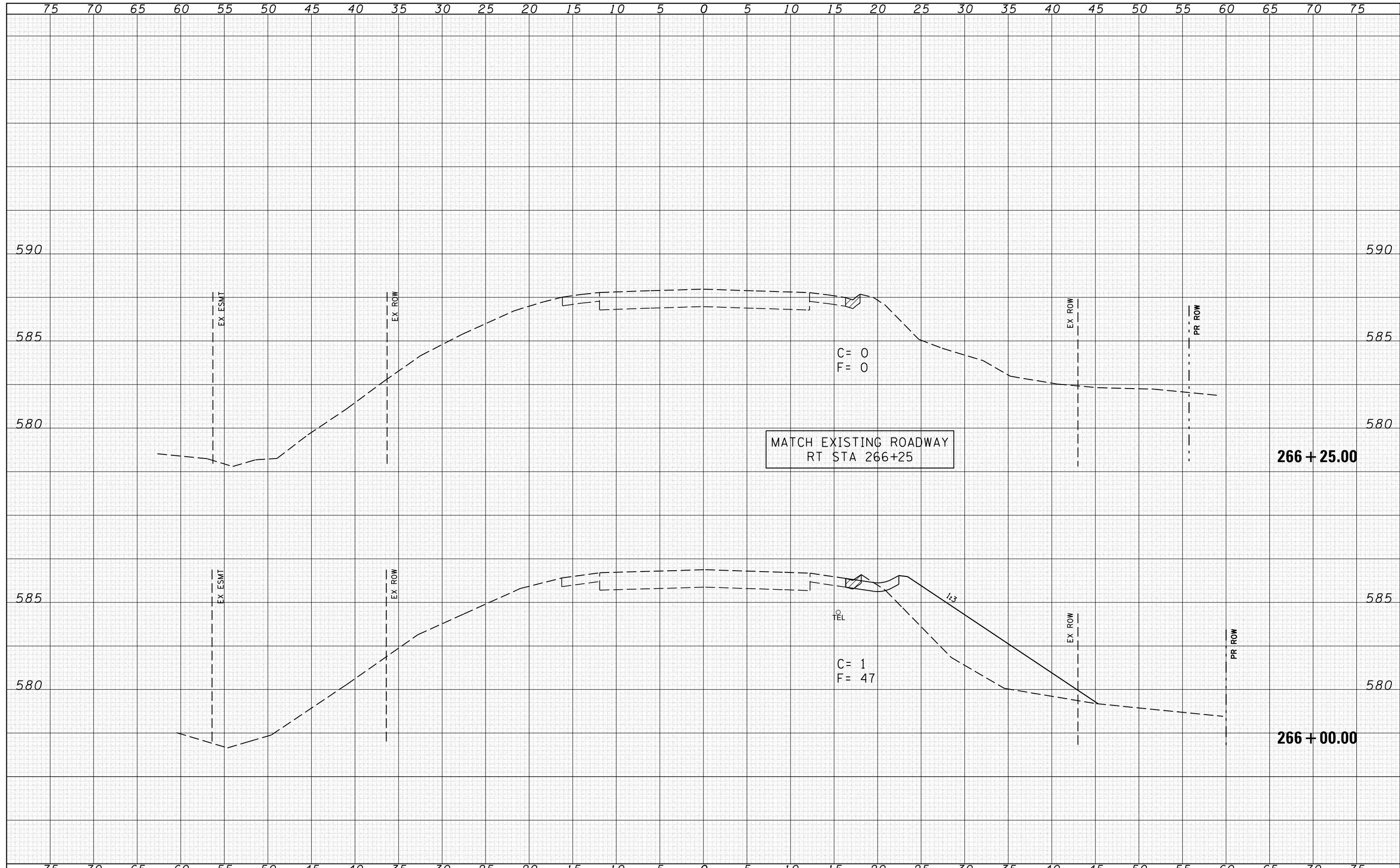
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	51
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 94698		

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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MATCH EXISTING ROADWAY
RT STA 266+25

266 + 25.00

266 + 00.00



JOB = 2223.4
 FILE NAME = 0794698-shr-xsUS45.dgn
 PLOT SCALE = 10.000' / in.
 PLOT DATE = 8/12/2015

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 DATE - 12/2/2011

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - US 45

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1652	(13BY) B-1	EFFINGHAM	53	52
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
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FINAL SURVEY	SURVEYED	BY	DATE
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	AREAS CHECKED		



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 PLOT SCALE = 1/8" = 100'-0"
 PLOT DATE = 8/12/2011

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 DATE - 12/2/2011

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FIELD ENTRANCE CROSS SECTIONS

F.A.S. RITE SECTION COUNTY TOTAL SHEET NO.
 1652 (138Y) B-1 EFFINGHAM 53
 FED. ROAD DIST. NO. ILLINOIS FEED AID PROJECT CONTRACT NO. 94698

