

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	1
		ILLINOIS	CONTRACT NO. 68741	

09-18-2020 LETTING ITEM 022

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2 - 3	GENERAL NOTES AND COMMITMENTS
4 - 10	SUMMARY OF QUANTITIES
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62 - 64	CROSS SECTIONS

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

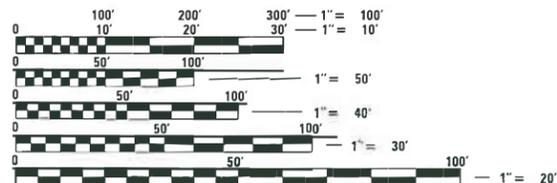
FAP 619 (IL 71)
SECTION (120BR)BRR
PROJECT STP-YWWR(957)
PUTNAM COUNTY
C-94-111-07

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-07	631032-09	701321-18
001001-02	666001-01	701901-08
280001-07	701001-02	704001-08
420406	701006-05	725001-01
515001-04	701011-04	780001-05
601101-02	701201-05	782006-01
630001-12	701301-04	886001-01
630301-09	701311-03	886006-01

ADT = 3800 (2017)
%SU = 6.6 (2017)
%MU = 14.5 (2017)
TOWNSHIP : HENNEPIN
FUNCTIONAL CLASS : MINOR
ARTERIAL (RURAL)

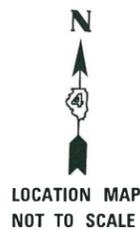
PROJECT IS LOCATED IN HENNEPIN
TOWNSHIP IN UNINCORPORATED
PUTNAM COUNTY



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

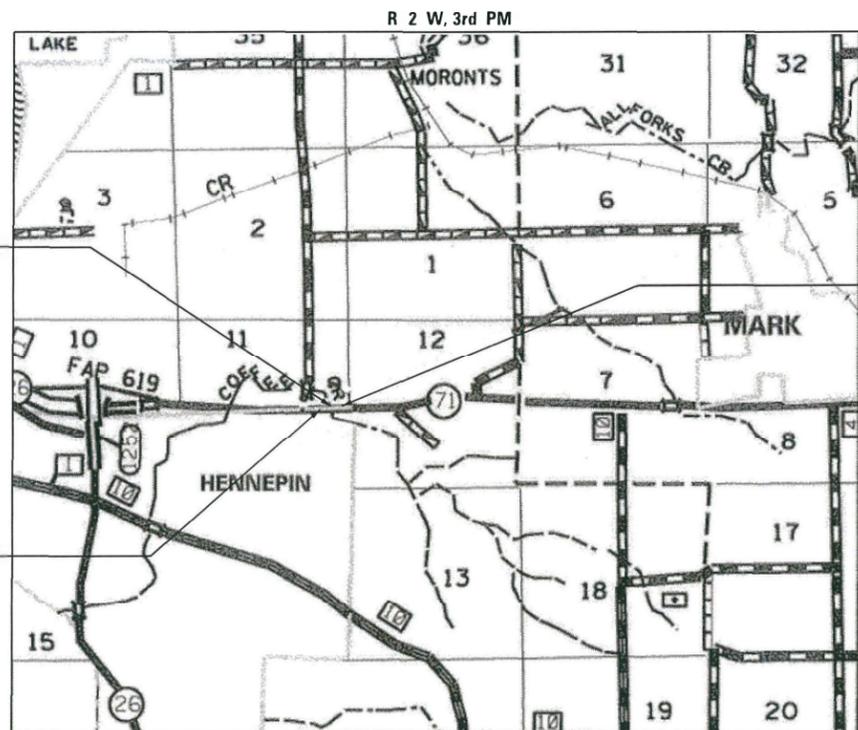
CONTRACT NO. 68741
CATALOG NO.033197-04D



LOCATION MAP
NOT TO SCALE

PROPOSED SINGLE SPAN PRECAST
PRESTRESSED CONCRETE DECK BEAM
SUPERSTRUCTURE ON EXISTING
SUBSTRUCTURE 76'-6" BK-BK
ABUTMENTS, 36'-0" CLEAR DECK WIDTH
WITH STEEL RAILING TYPE SM
0° SKEW
EXISTING SN 078-0032 @ STA 217+77

PROPOSED PROJECT ENDS
STA 220+50



PROPOSED PROJECT BEGINS
214+00

SUPERSTRUCTURE REPLACEMENT
OVER COFFEE CREEK



GROSS LENGTH = 550 FT. = 0.10 MILE
NET LENGTH = 550 FT. = 0.10 MILE



MARTIN J. SILVESTER, P.E.
LICENSE EXP. DATE 11-30-2021
DATE: 6-9-2020



LOCATION OF SECTION INDICATED THUS: - [shaded box]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 15, 2020
Kensel A. Garnett RSO
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
August 14, 2020
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
August 14, 2020
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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

PROJECT ENGINEER: RICH DOTSON (309-671-3455)
PROJECT MANAGER: KEVIN HORST (309-671-3472)

PAVEMENT STATION NUMBERS & PLACEMENT

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

The pavement station numbers shall be installed as specified herein:

Interval - 200 feet (english stationing) or 100 meters (metric stationing)

Bottom of numbers - 6 inches (150 mm) from the inside edge of the pavement marking

Location:

- 2, 3, & 5 lane pavements - right edge of pavement in direction of increasing stations
- Multi-lane divided roadways - outside edge of pavement in both directions
- Ramps - along baseline edge of pavement

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

Format - English pavement stations shall use this format xxx+00, where x represents the pavement station

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

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

SETTING OF SECTION CORNER MONUMENTATION

All section corner locations on this project shall be located and verified by a licensed Land Surveyor prior to any removal work being performed. The Land Surveyor shall locate the existing section corners through courthouse research, personal knowledge or through the assistance of local firms performing Land Surveying in the area. If the section corner does not exist through either its physical location or through ties in the field it shall not be reset, there shall be no calculating of section corners onto a project required.

Once the paving and striping operations have been performed the section corner shall be reset at the direction of a licensed Land Surveyor. If any dimensions have been changed it shall be the responsibility of the Surveyor to file a new monument record in the appropriate courthouse.

A copy of all drawings or monument records produced from this project shall be sent to the Chief of Surveys, Illinois Department of Transportation, Region Three/District Four, Peoria, Illinois.

The supplying, drilling, setting of disks, professional services, labor and any other additional work required to perform this work shall be paid for under pay item for Permanent Survey Markers, Type I.

Refer to District Four CADD Standard 667101 for details.

COMMITMENTS

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

No commitments have been made on this project.

MODEL: D:\a\h\... FILE NAME: P:\DOT\DOT\DOT\CADD_SHEETS\046871-1\11-general notes.dgn

The Upchurch Group architects engineers surveyors Professional Design Firm Corporation 123 North 15th Street Maitland, FL 32751 License No. 184-003401 Phone: 317.255.5177 e-mail: upchurchgroup@upchurchgroup.com	USER NAME = S1034	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND COMMITMENTS ILLINOIS ROUTE 71 OVER COFFEE CREEK	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TUG PROJECT NO. 3119049-01	DRAWN - LP	REVISED -			619	(120BR)BRR	PUTNAM	64	3
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 68741							
PLOT DATE = 5/28/2020 8:17:40 AM	DATE -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 4	ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED 20% STATE STRUCTURE
				0013
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	37	37
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	38	38
20200100	EARTH EXCAVATION	CU YD	340	340
20300100	CHANNEL EXCAVATION	CU YD	322	322
20400800	FURNISHED EXCAVATION	CU YD	133	133
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2220	2220
25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
25100115	MULCH, METHOD 2	ACRE	0.50	0.50
25100630	EROSION CONTROL BLANKET	SQ YD	2220	2220
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	54	54
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50

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USER NAME = St634	DESIGNED -	REVISED -
TUG PROJECT NO. 3119049-01	DRAWN - TLW	REVISED -
PLOT SCALE = 2.0000' / 1" =	CHECKED -	REVISED -
PLOT DATE = 5/28/2020 8:19:40 AM	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 71 OVER COFFEE CREEK			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	4
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED 20% STATE STRUCTURE
				0013
50800515	BAR SPLICERS	EACH	266	266
50901050	STEEL RAILING, TYPE SM	FOOT	211	211
51500100	NAME PLATES	EACH	1	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	36	36
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	30	30
59000200	EPOXY CRACK INJECTION	FOOT	14	14
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	26	26
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	FOOT	75	75
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	EACH	3	3
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) FLARED	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	453	453
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8

* SPECIALTY ITEM

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USER NAME = St634	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
ILLINOIS ROUTE 71 OVER COFFEE CREEK**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	7
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED 20% STATE STRUCTURE
				0013
* 66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	3
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
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EA	6	6
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	839	839
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	10	10
70300100	SHORT TERM PAVEMENT MARKING	FOOT	56	56
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	369	369
70300904	PAVEMENT MARKING TAPE, TYPE IV, 4"	FOOT	2206	2206
70300924	PAVEMENT MARKING TAPE, TYPE IV, 24"	FOOT	52	52

*= SPECIALTY ITEM

MODEL D:\64611\FILE NAME: PLOT01\BTRK1W0_9_158_023_Coffee Creek\CADD\CADD SHEETS\046871-INT-500.dwg

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USER NAME = St634	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

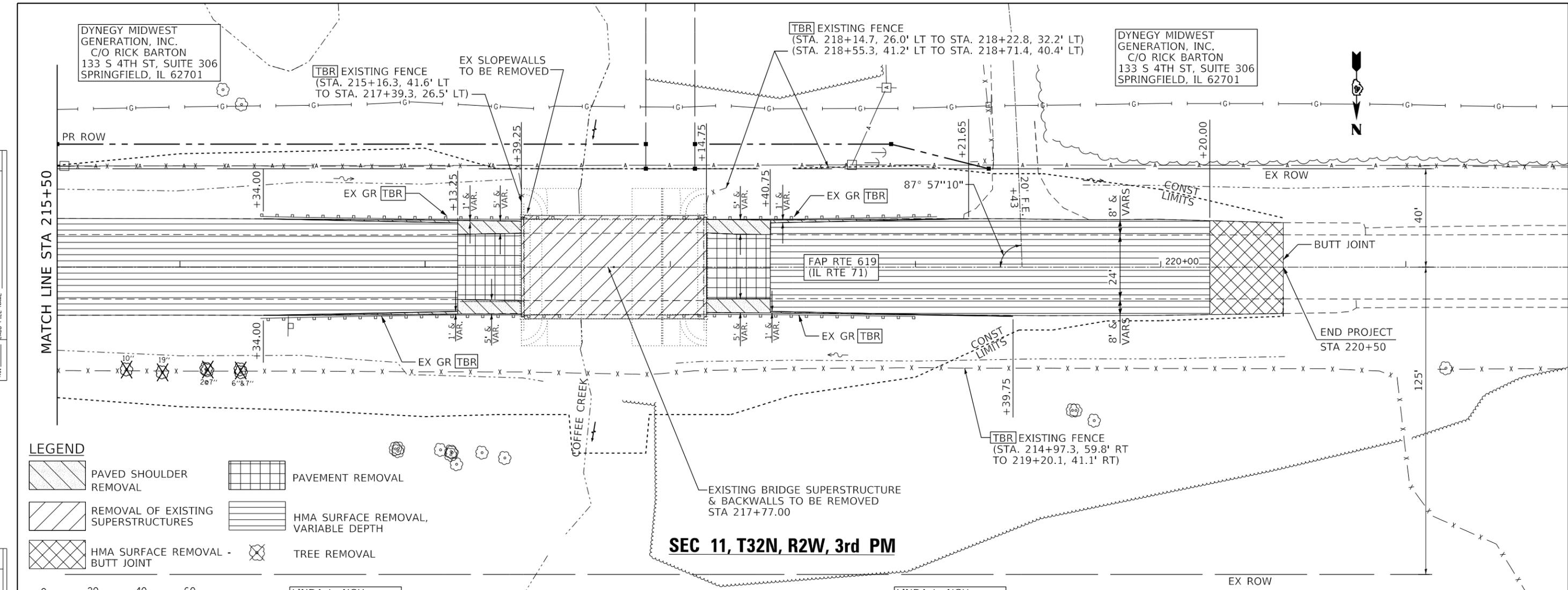
**SUMMARY OF QUANTITIES
ILLINOIS ROUTE 71 OVER COFFEE CREEK**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	8
CONTRACT NO. 68741			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



LEGEND

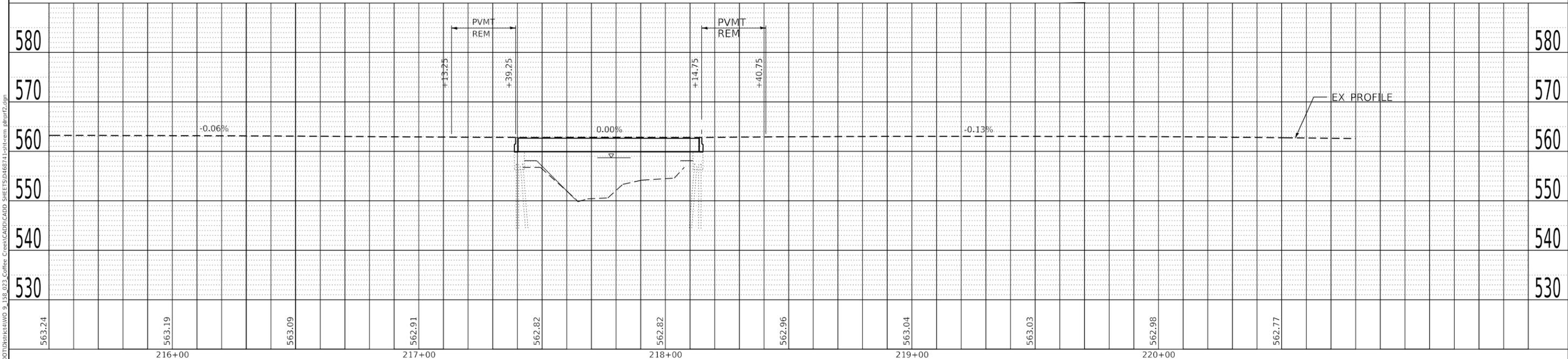
	PAVED SHOULDER REMOVAL		PAVEMENT REMOVAL
	REMOVAL OF EXISTING SUPERSTRUCTURES		HMA SURFACE REMOVAL, VARIABLE DEPTH
	HMA SURFACE REMOVAL - BUTT JOINT		TREE REMOVAL



LINDA L. NOY
10600 ESK ST.
HENNEPIN, IL 61327

LINDA L. NOY
10600 ESK ST.
HENNEPIN, IL 61327

SEC 11, T32N, R2W, 3rd PM



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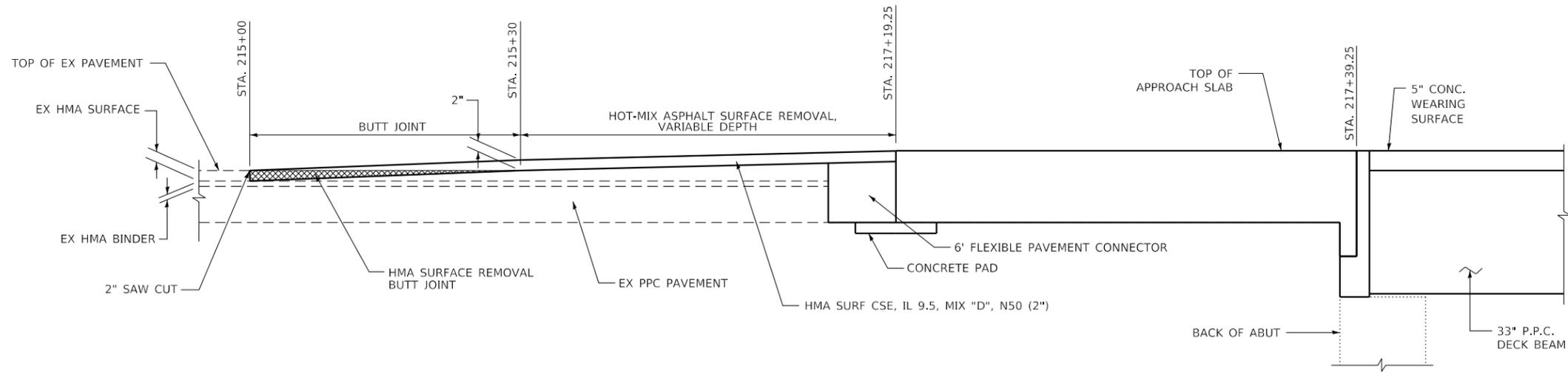
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DESIGNED -	ADB
DRAWN -	RMH/LP
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

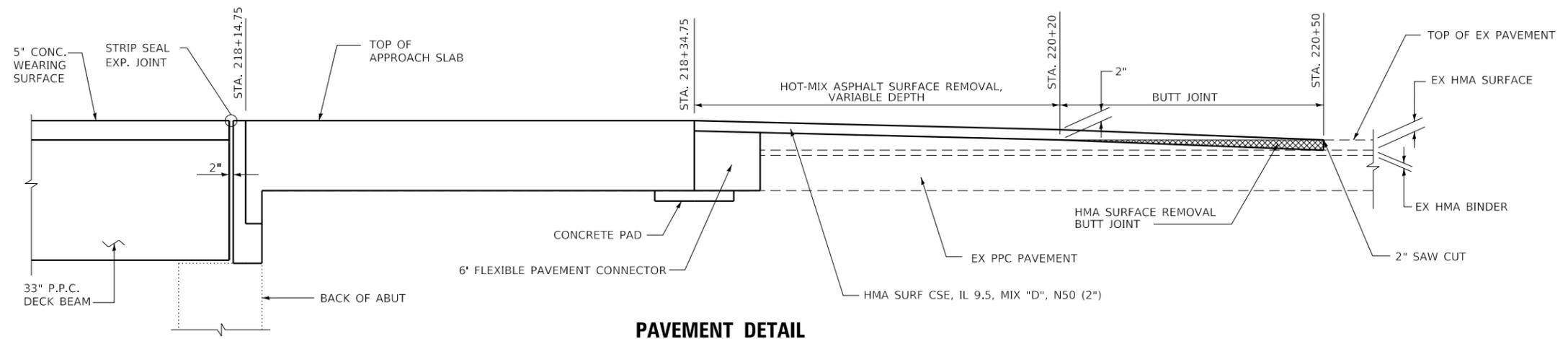
REMOVAL PLAN AND PROFILE
ILLINOIS ROUTE 71 OVER COFFEE CREEK

SCALE: SHEET NO. OF SHEETS STA. 215+50 TO STA. 220+50

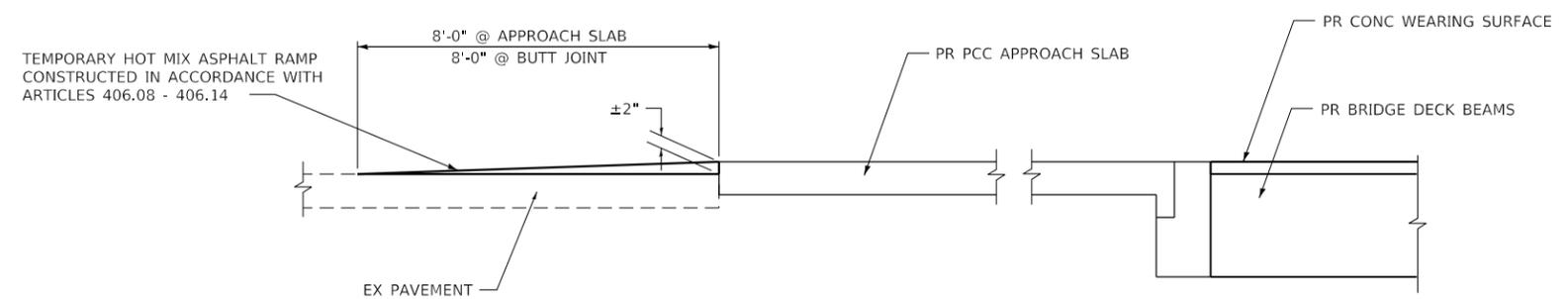
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619	(120BR)BRR	PUTNAM	64	18
				CONTRACT NO. 68741
ILLINOIS FED. AID PROJECT				



PAVEMENT DETAIL
STA. 215+00.00 TO STA. 217+39.25



PAVEMENT DETAIL
STA. 218+14.75 TO STA. 220+50.00



TEMPORARY RAMP DETAIL
STA. 215+00.00 TO STA. 215+08.00
STA. 217+11.25 TO STA. 217+19.25
STA. 218+34.75 TO STA. 218+42.75
STA. 220+42.00 TO STA. 220+50.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ROADWAY DETAILS			
ILLINOIS ROUTE 71 OVER COFFEE CREEK			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	21
CONTRACT NO. 68741				
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



MATCH LINE STA 214+00

MATCH LINE STA 220+00

MATCH LINE STA 214+00

MATCH LINE STA 220+00

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS.

STAGE I TRAFFIC

LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER

STAGE II TRAFFIC

NOTE: THE COST OF FURNISHING, INSTALLING, AND REMOVING THE SIGNS SHOWN ON THIS SHEET SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

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USER NAME = St634
 TUG PROJECT NO. 3119049-01
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 5/28/2020 8:57:20 AM

DESIGNED -
 DRAWN - RMH
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 DATE -

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS - STAGE I AND II
 ILLINOIS ROUTE 71 OVER COFFEE CREEK

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

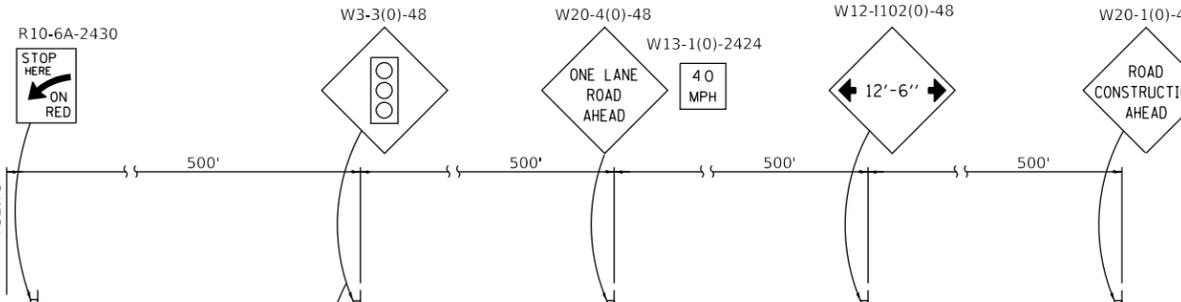
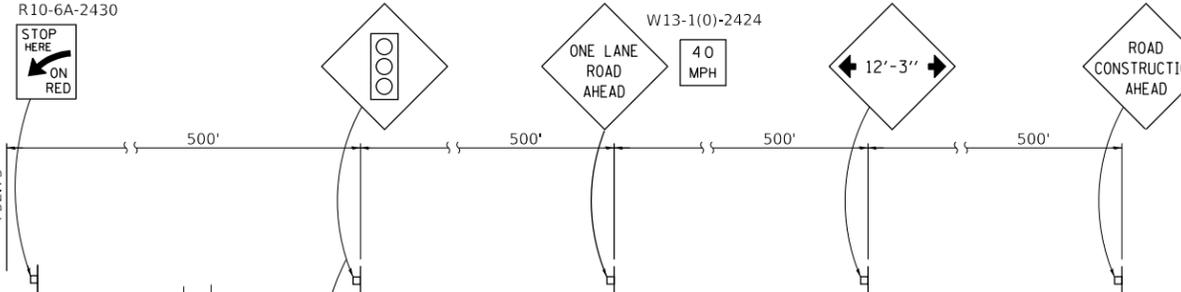
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	24
CONTRACT NO. 68741				
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

MATCH LINE STA 220+00

MATCH LINE STA 220+00

1:12 TAPER

100' TAPER



STAGE I TRAFFIC

STAGE II TRAFFIC

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS.

LEGEND

-  WORK AREA
-  IMPACT ATTENUATOR
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  DOUBLE VERTICAL PANEL
-  TRAFFIC SIGNAL
-  INDUCTION LOOP DETECTOR
-  TEMPORARY CONCRETE BARRIER



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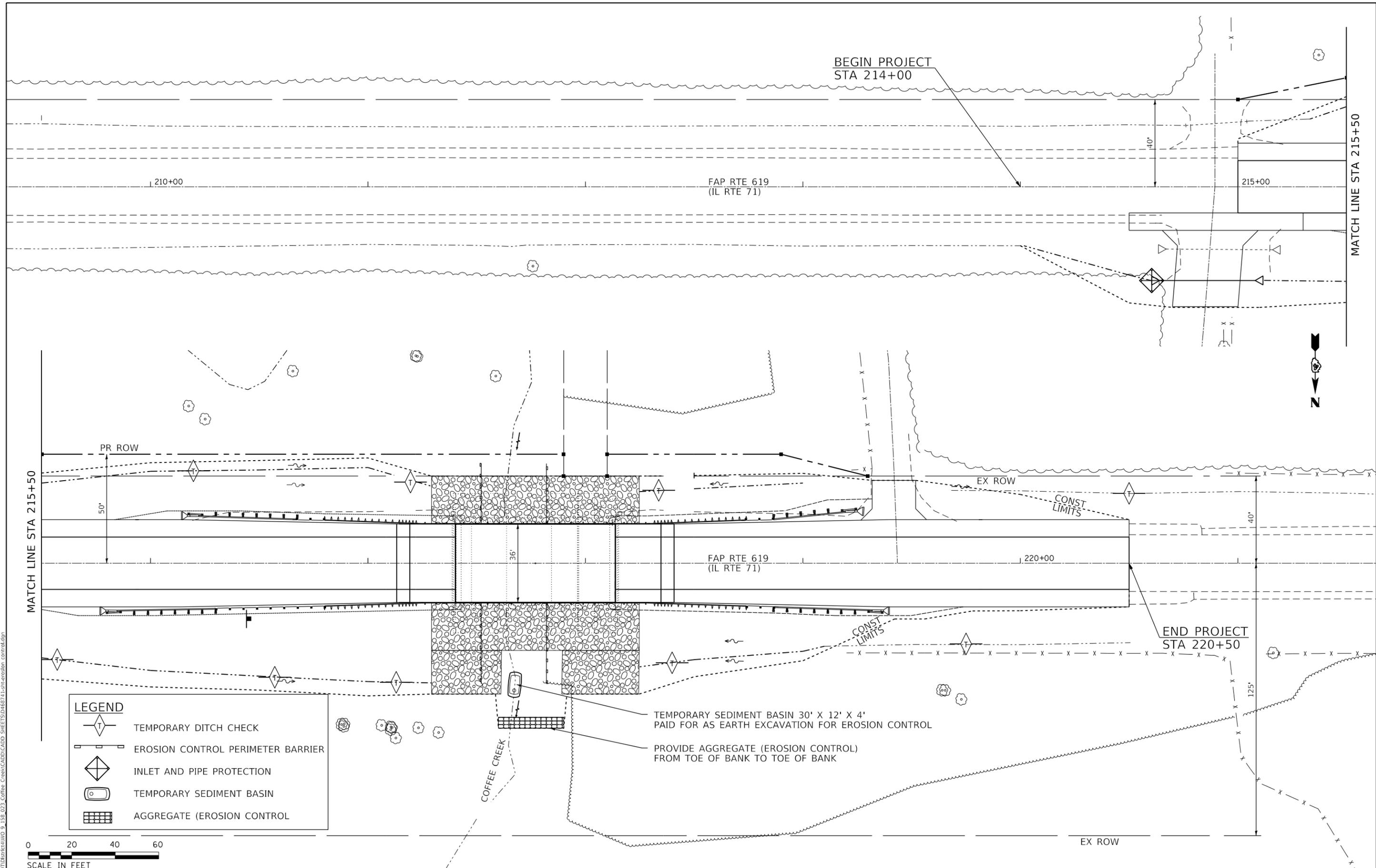
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS - STAGE I AND II
 ILLINOIS ROUTE 71 OVER COFFEE CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	25
CONTRACT NO. 68741				
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

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BEGIN PROJECT
STA 214+00

210+00

FAP RTE 619
(IL RTE 71)

215+00

MATCH LINE STA 215+50

MATCH LINE STA 215+50

PR ROW

50'

36'

FAP RTE 619
(IL RTE 71)

220+00

EX ROW
CONST LIMITS

40'

END PROJECT
STA 220+50

125'

EX ROW

LEGEND

-  TEMPORARY DITCH CHECK
-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  TEMPORARY SEDIMENT BASIN
-  AGGREGATE (EROSION CONTROL)

TEMPORARY SEDIMENT BASIN 30' X 12' X 4'
PAID FOR AS EARTH EXCAVATION FOR EROSION CONTROL

PROVIDE AGGREGATE (EROSION CONTROL)
FROM TOE OF BANK TO TOE OF BANK

COFFEE CREEK



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USER NAME = St634	DESIGNED - ADB	REVISED -
TUG PROJECT NO. 3119049-01	DRAWN - LP	REVISED -
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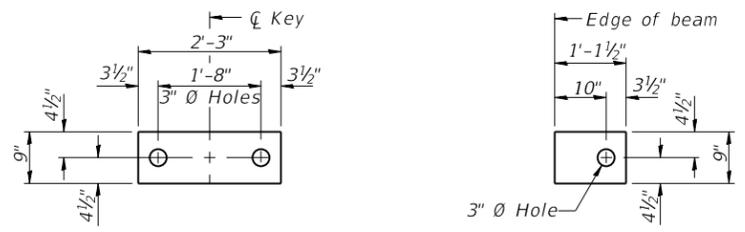
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
ILLINOIS ROUTE 71 OVER COFFEE CREEK**

SCALE: SHEET NO. OF SHEETS STA. 214+00 TO STA. 220+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	26
CONTRACT NO. 68741				
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

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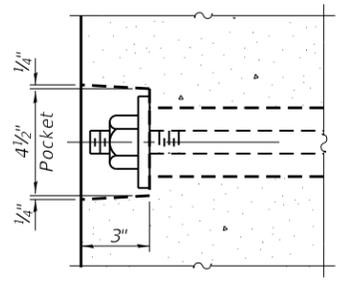


FABRIC BEARING PAD
(Interior)

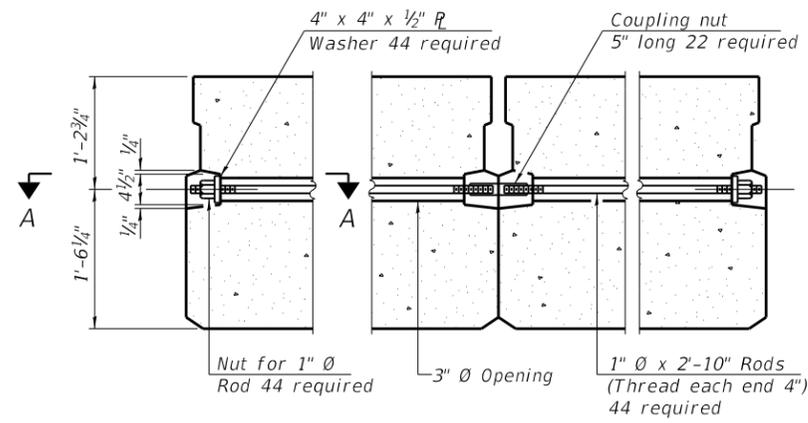
FABRIC BEARING PAD
(Exterior)

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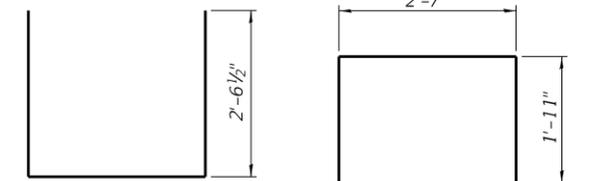
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

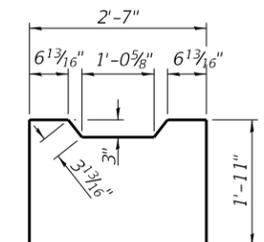


TYPICAL TRANSVERSE TIE ASSEMBLY



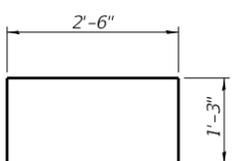
BAR S(E)

BAR S1(E)

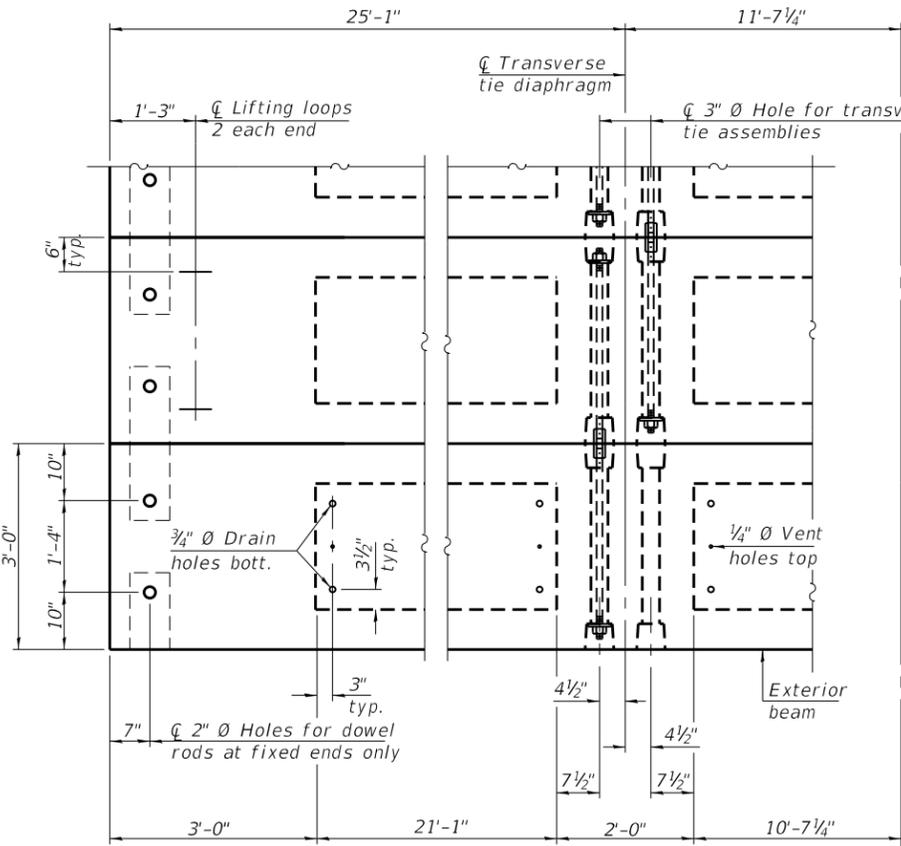


BAR U(E)

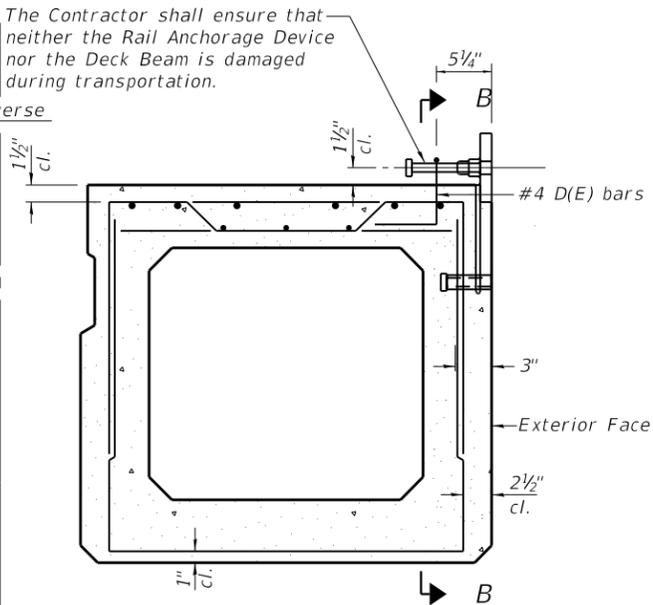
BAR S2(E)



BAR U1(E)

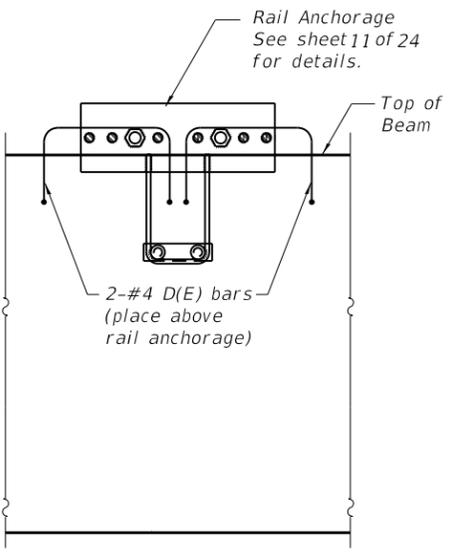


PLAN VIEW



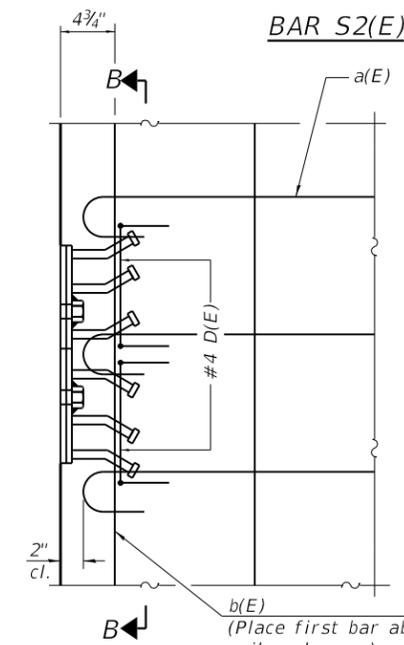
SECTION THRU EXTERIOR BEAM

See Typical Section B-B on Sheet 7 of 24 Sheets for strand pattern, dimensions and bar locations.

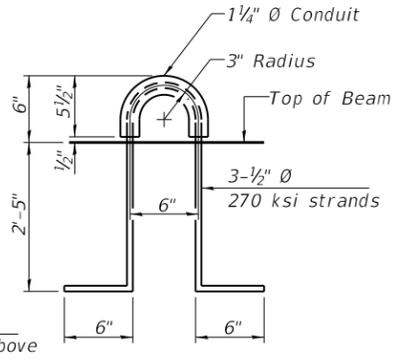


SECTION B-B

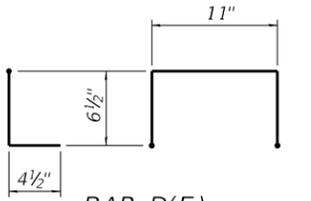
The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into beam. Drilling into the beam will not be permitted. See Sheet 6 of 24 for location of rail anchors.



PLAN AT ANCHORAGE



LIFTING LOOP DETAIL



BAR D(E)

Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	2642
---	---------	------

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

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PD-3336-0D

2-17-2017

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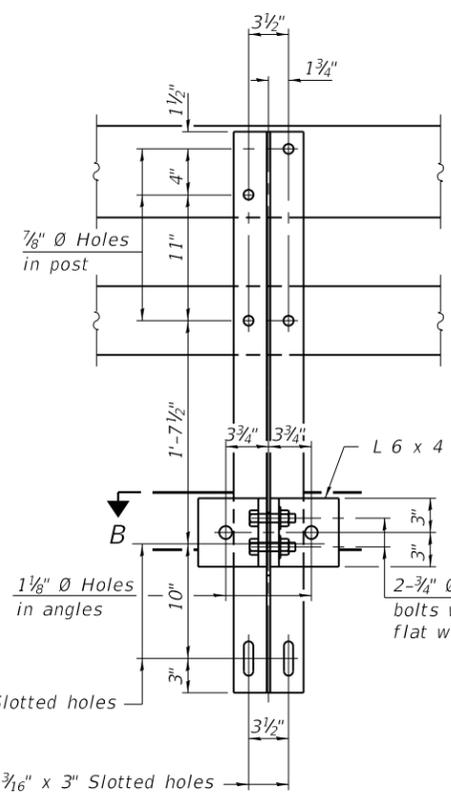
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STRUCTURE NO. 078-0032

SHEET NO. 8 OF 24 SHEETS

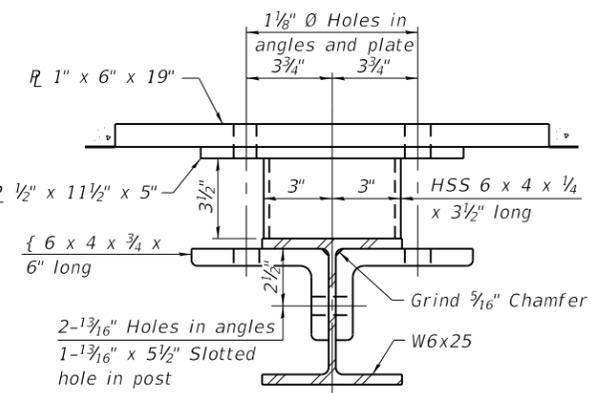
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CONTRACT NO. 68741				

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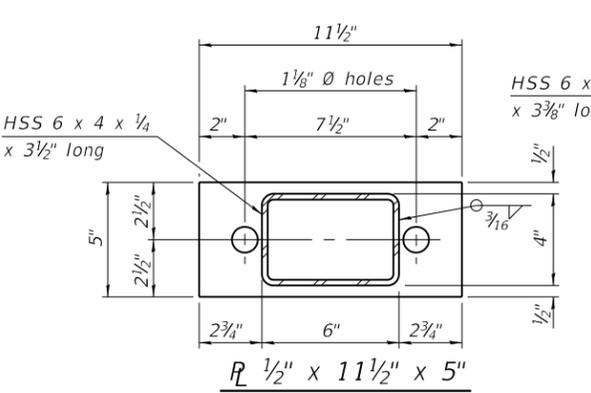
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 123 North 15th Street, Maitland, FL 32751
 Phone: 317-235-3177
 E-mail: upchurchgroup@upchurchgroup.com



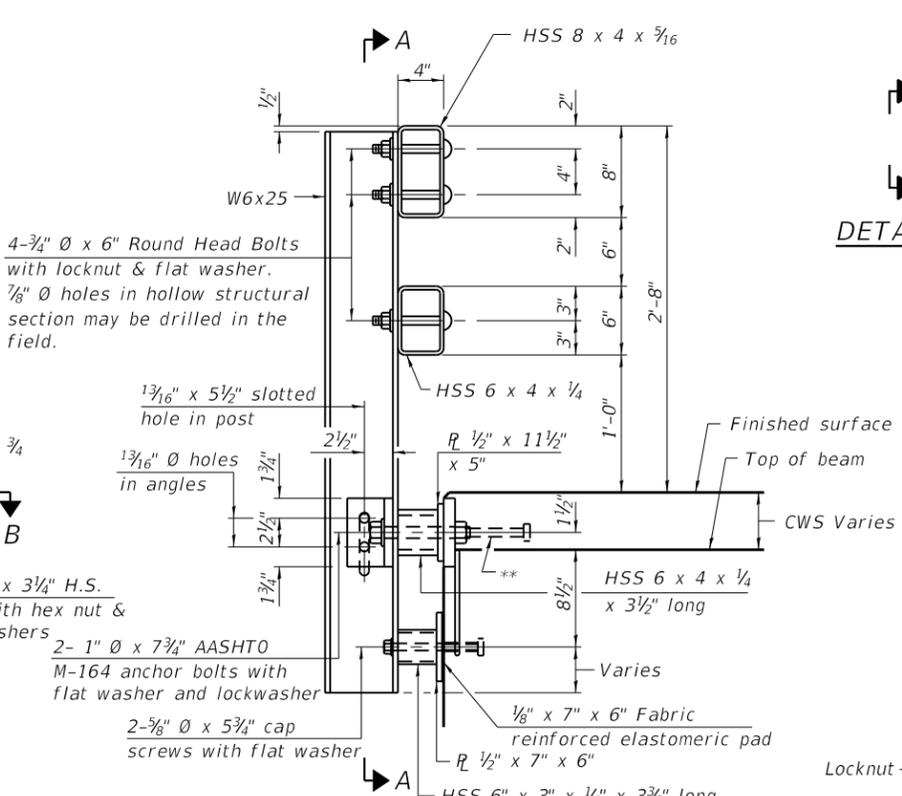
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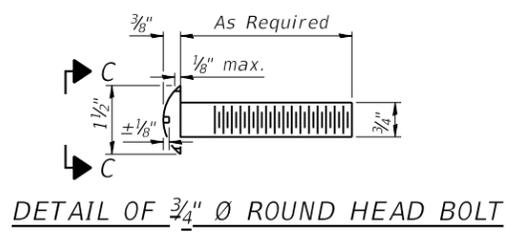
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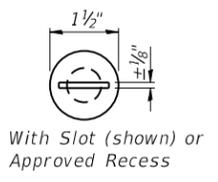
SECTION C-C



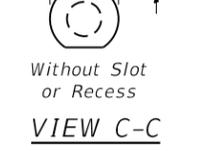
SECTION AT RAIL POST



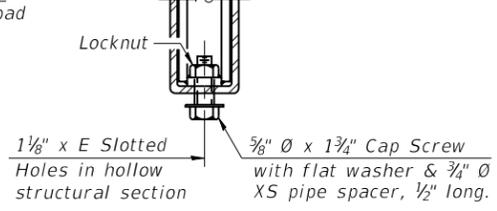
DETAIL OF 3/4" Ø ROUND HEAD BOLT



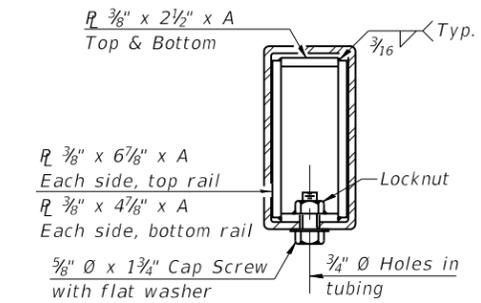
VIEW C-C



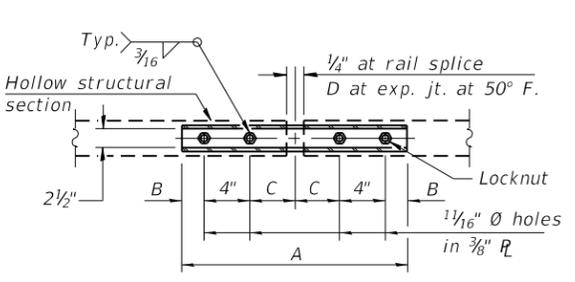
VIEW D-D



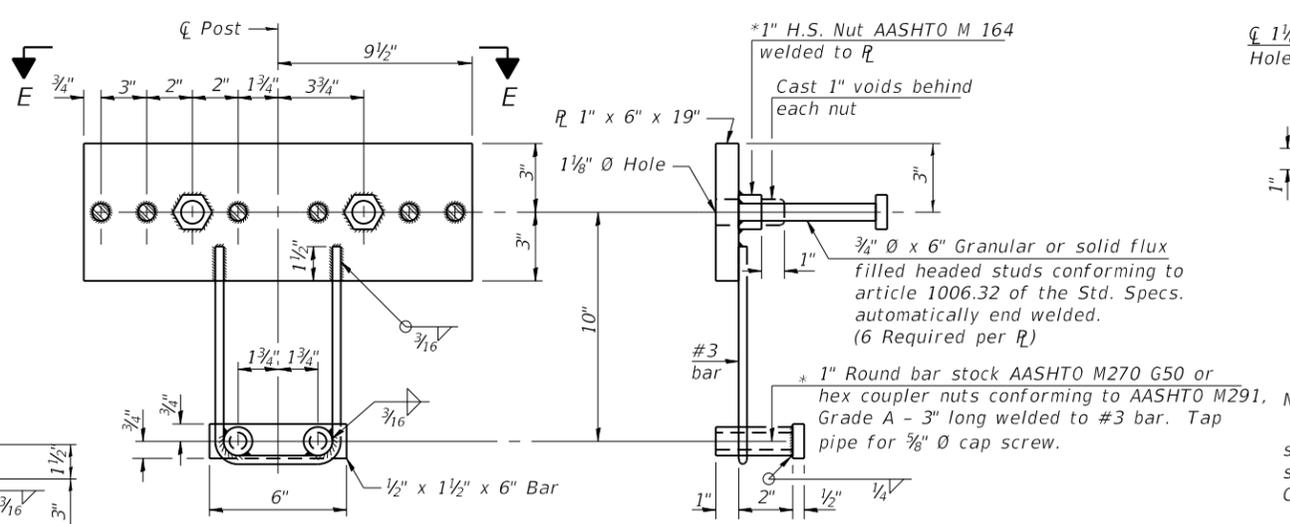
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



ANCHOR DEVICE

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

T = Total movement at expansion joint as shown on the design plans.

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	211

R-34CWS 2-17-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

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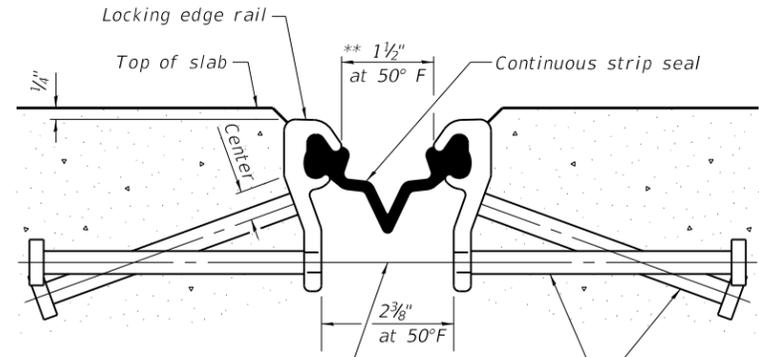
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PLOT DATE = 5/28/2020 9:29:43 AM	CHECKED	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
STRUCTURE NO. 078-0032

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120B)BRR	PUTNAM	64	37
				CONTRACT NO. 68741

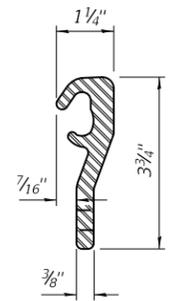
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 Professional Design Firm Corporation
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 e-mail: upchurchgroup@upchurchgroup.com



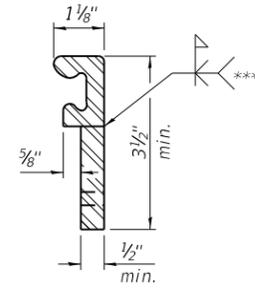
$\frac{3}{8}$ " ϕ holes at 4'-0" cts. for $\frac{3}{8}$ " ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place $\frac{1}{2}$ " ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

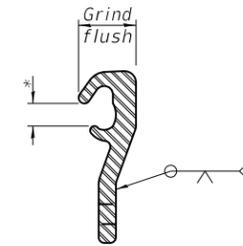
SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS



ROLLED (EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

Rolled rail shown, welded rail similar.

LOCKING EDGE RAIL

- * Omit weld at seal opening.
- ** The minimum dimension shall be 1 1/2" for installation purposes.
- *** Back gouge not required if complete joint penetration is verified by mock-up.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	36

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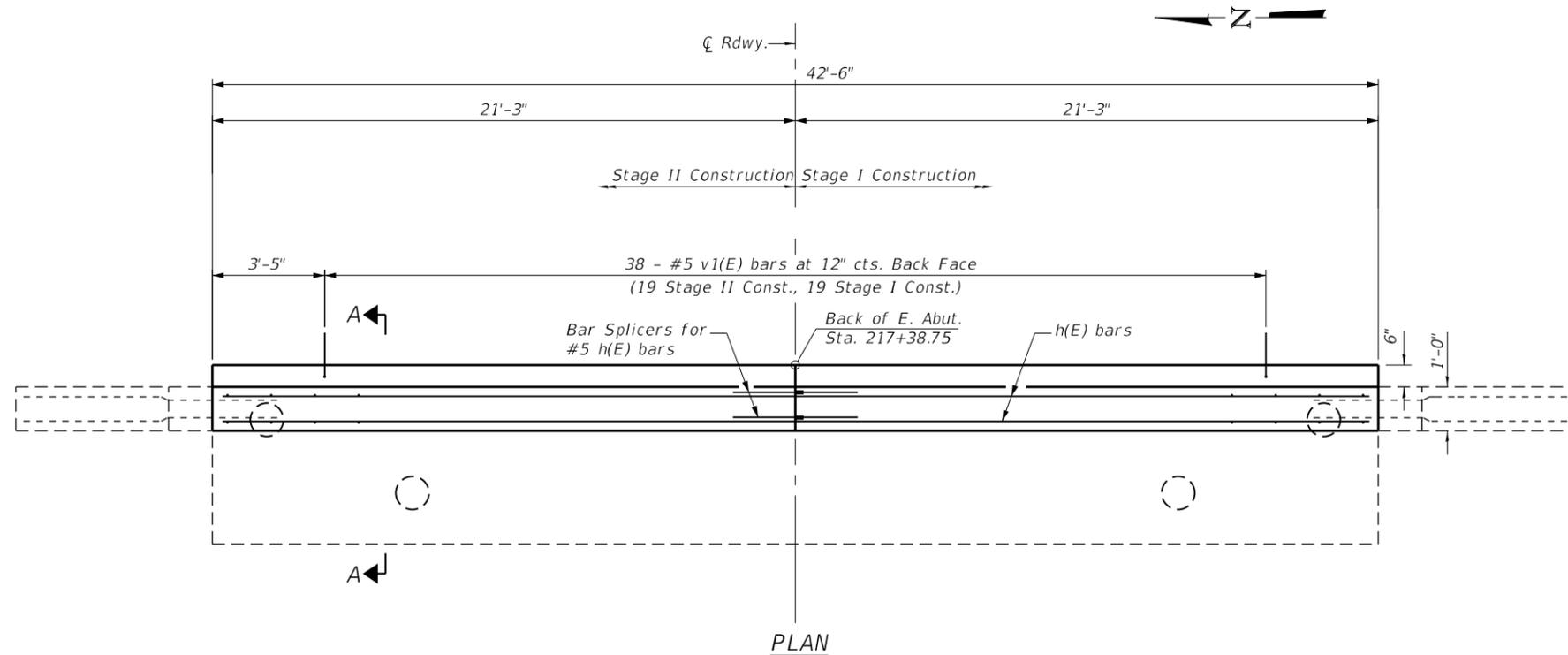
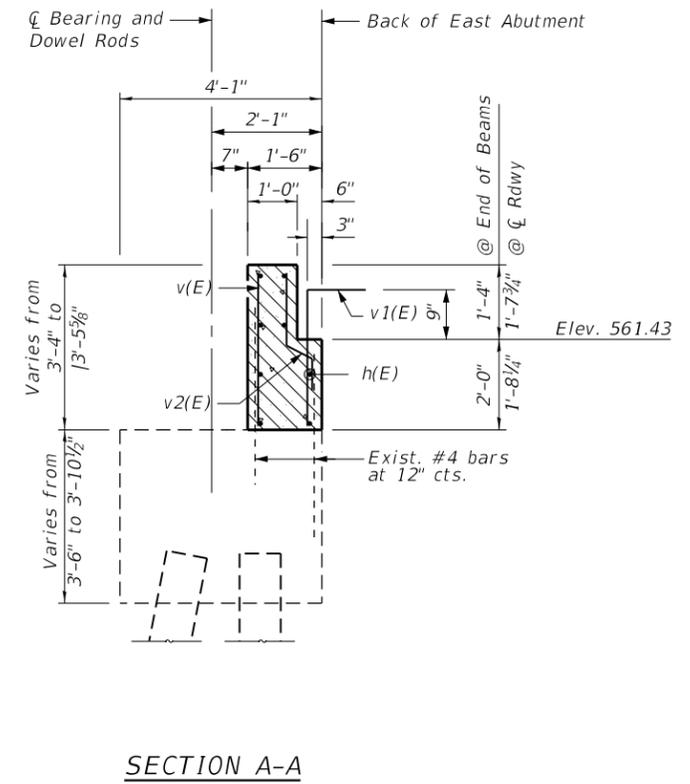
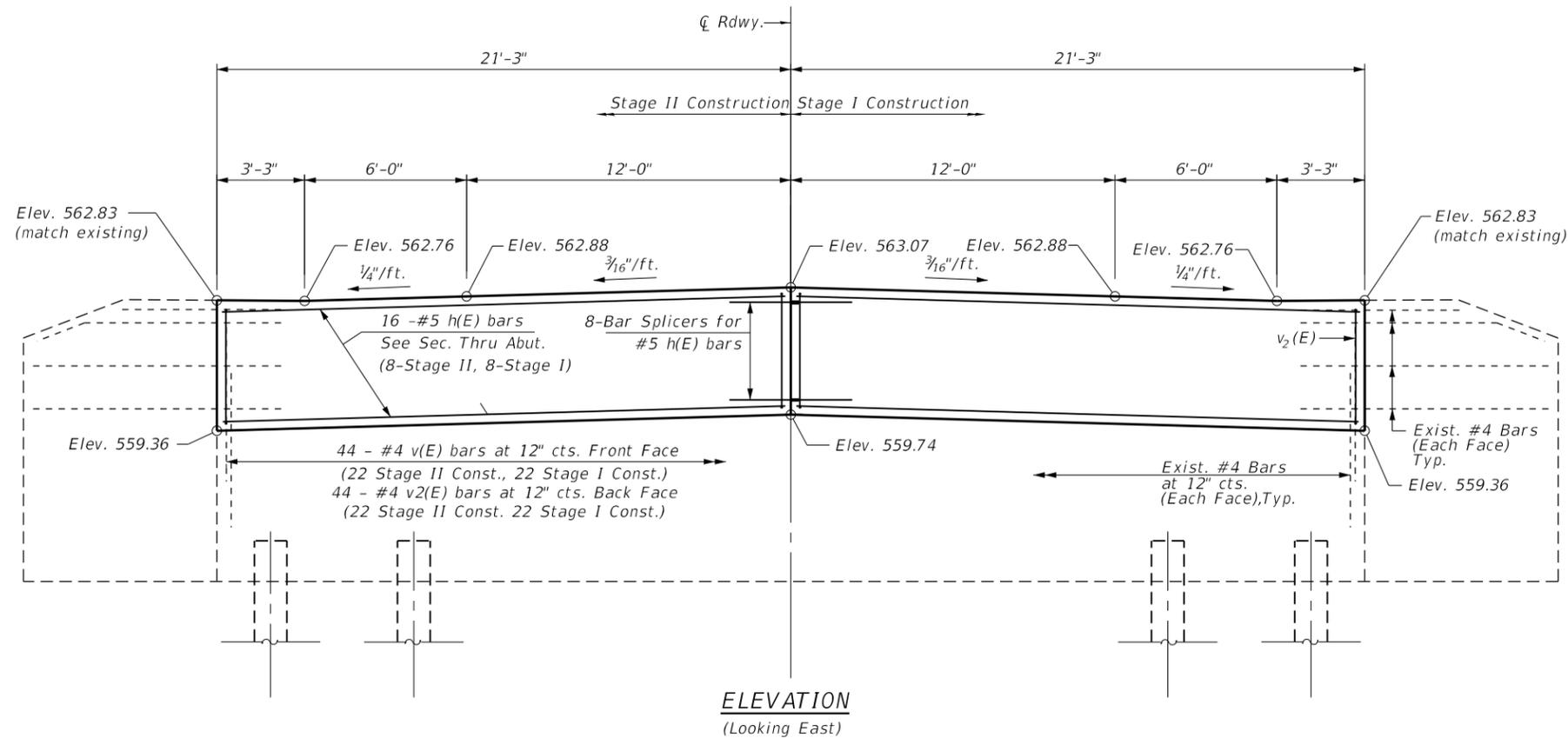
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 078-0032

SHEET NO. 12 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	38
CONTRACT NO. 68741				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#5	20'-11"	—
v(E)	44	#4	2'-11"	—
v1(E)	38	#5	3'-4"	└
v2(E)	44	#4	3'-0"	└
Structure Excavation			Cu. Yd.	11
Concrete Superstructures			Cu. Yd.	6.5
Reinforcement Bars, Epoxy Coated			Pound	660

Notes:
 Cast backwall after beams and concrete wearing surface have been erected.
 Quantity of concrete in the hatched area is included with Concrete Superstructure.

See sheet 16 of 24 for bar bending details.

MODEL: Defaul...
 FILE: \\upchurch\p\11001\11001\11001\CADD\SHEETS\0780032-68741-015-5-abut.dgn

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USER NAME = S1034
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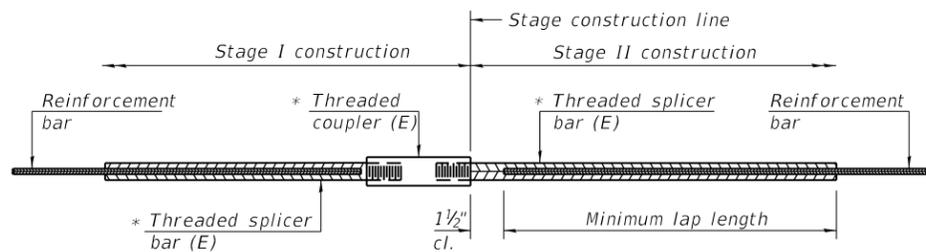
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 078-0032

SHEET NO. 15 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 68741

ILLINOIS FED. AID PROJECT

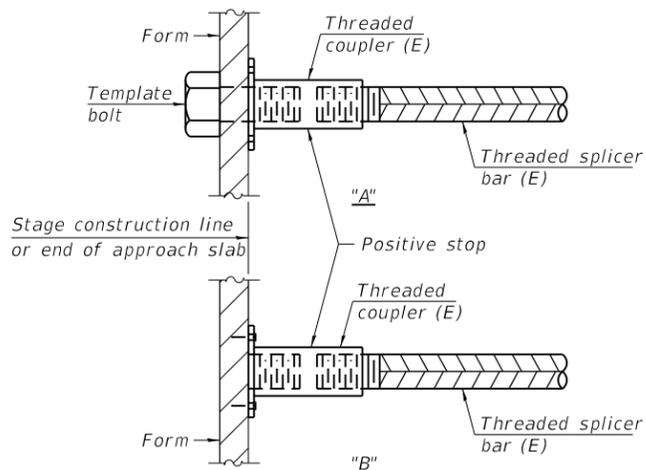


STANDARD BAR SPLICER ASSEMBLY

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

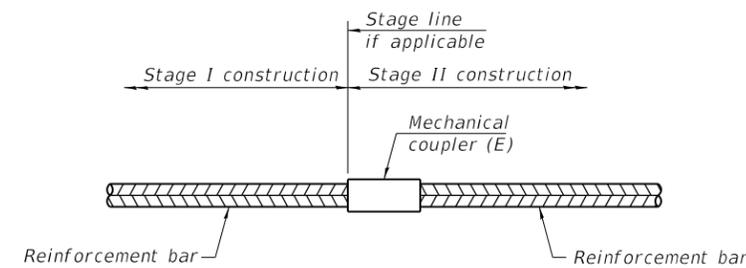
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Concrete Wearing Surface	4	74	2'-5"
West Abut.	5	8	3'-7"
East Abut.	5	8	3'-7"
Approach Slabs	5	142	3'-7"
	4	34	2'-5"



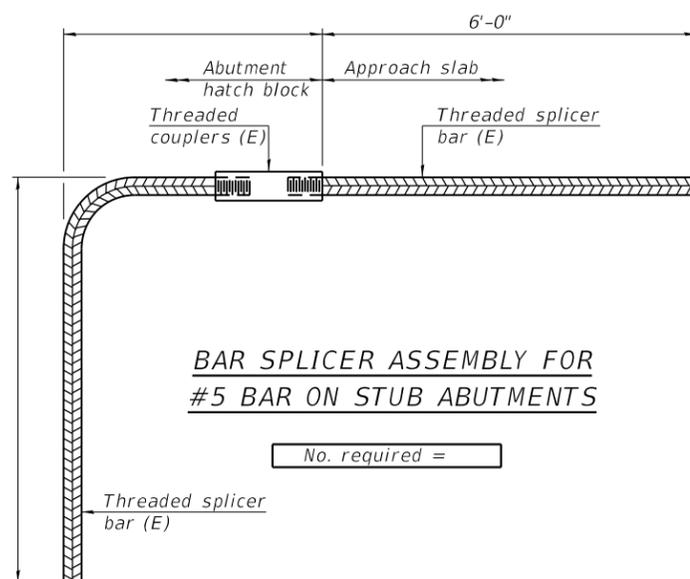
INSTALLATION AND SETTING METHODS

"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.

MODEL: D:\p\17\17001\17001\17001\CADD\SHEETS\0780032-68741-017-Bar Splicer Assembly.dgn
 FILE NAME: P:\17001\17001\17001\CADD\SHEETS\0780032-68741-017-Bar Splicer Assembly.dgn

BSD-1

2-17-2017

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61208
 Phone: 312.255.5177
 License No. 184-003401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = S634
 TUG PROJECT NO. 3119049-01
 PLOT SCALE = 0.1667' / 1" =
 PLOT DATE = 5/28/2020 9:39:35 AM

DESIGNED -
 CHECKED -
 DRAWN - TLW
 CHECKED -

REVISED
 REVISED
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 078-0032**

SHEET NO. 17 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	43
CONTRACT NO. 68741				
ILLINOIS FED. AID PROJECT				

BRIDGE FOUNDATION BORING LOG

PROJECT SBI 89 Date June 2, 1975
 ROUTE S.B.I. 89 Bored By J. Safranski
 SEC 120 BR STA 217+77 Checked By W. Beck
 COUNTY Putnam

Elevation	N	Qu t/s.f.	w (%)	Surface Water El.	Elevation	N	Qu t/s.f.	w (%)
95.1	0			90.8				
89.6	6	-	13	83.3				
86.1	7	0.3 B	20	83.8				
83.6	4	0.3 B	13					
82.1	22	-	15					
80.6	16	-	13					
74.6	14	2.5 S	11					
	12	2.4 S	15					
	16	3.7 B	15					
	30	6.4 S	13					

- Standard Penetration Test -
 blows per foot to drive 2"
 D. Split Spoon Sampler 12" with
 0# hammer falling 30".

Qu - Unconfined Compressive Strength - t/sf
 w - Water Content - percentage of oven dry weight - %.

Type failure:
 B - Bulge Failure
 S - Shear Failure
 E - Estimated Value
 P - Penetrometer

BRIDGE FOUNDATION BORING LOG

SBI 89
 120 BR
 (Boring #1)

Elevation	N	Qu t/s.f.	w (%)
50.1	-45		
47.6	22	-	3

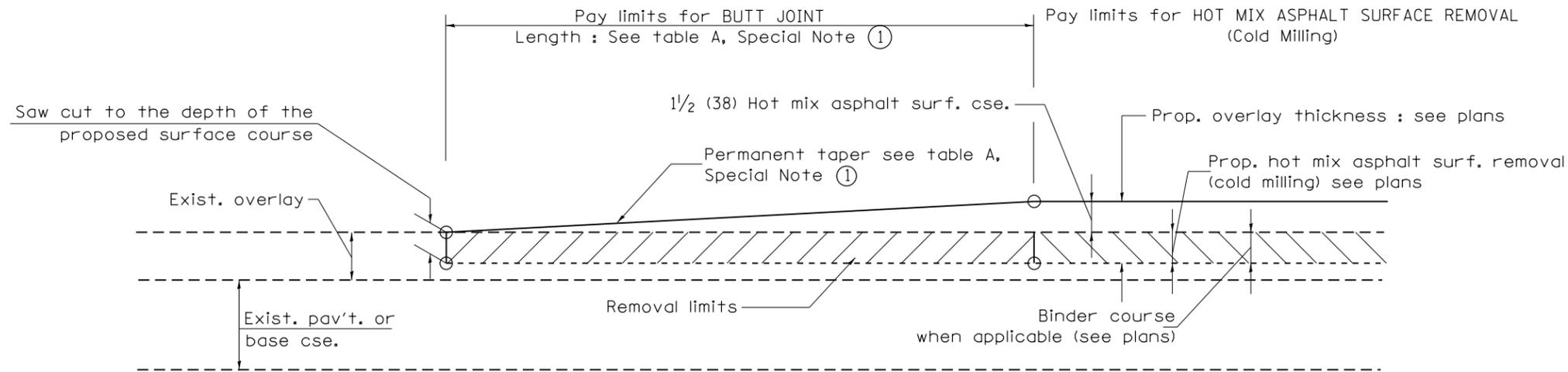
The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Maitland, FL 32751
 Phone: 312-235-3177
 License No. 184-003401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = S6634	DESIGNED -	REVISED
TUG PROJECT NO. 3119049-01	CHECKED -	REVISED
PLOT SCALE = 0.1667 1/16"	DRAWN - TLW	REVISED
PLOT DATE = 5/28/2020 9:41:18 AM	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING B-1
STRUCTURE NO. 078-0032

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	44
CONTRACT NO. 68741				



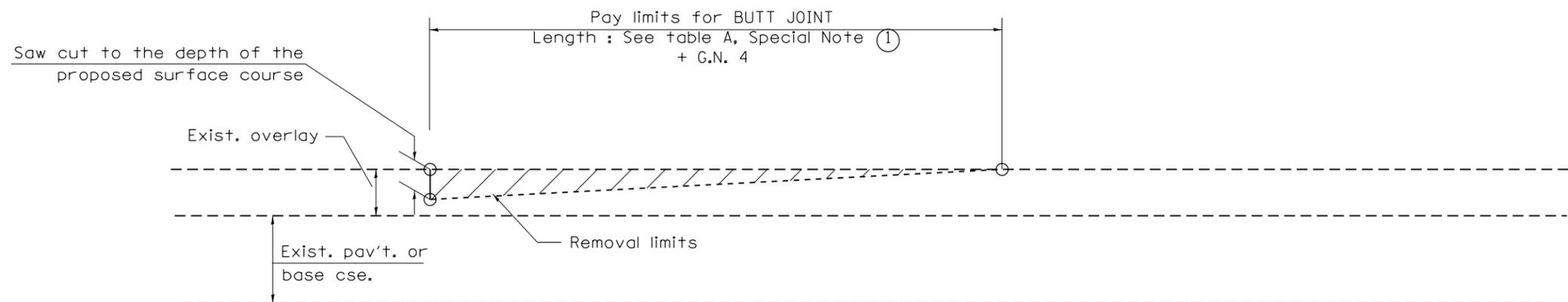
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

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

GENERAL NOTES

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



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

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.
04-01-97	CORRECTION TO DEPTH	J.A.	04-12-16	MINOR CORRECTIONS	R.D.
09-15-05	REVISED DESIGNER NOTE	M.M.A.	02-14-17	ADDED NOTE 5	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	07-16-19	Wording and Spelling corrections	R.D.

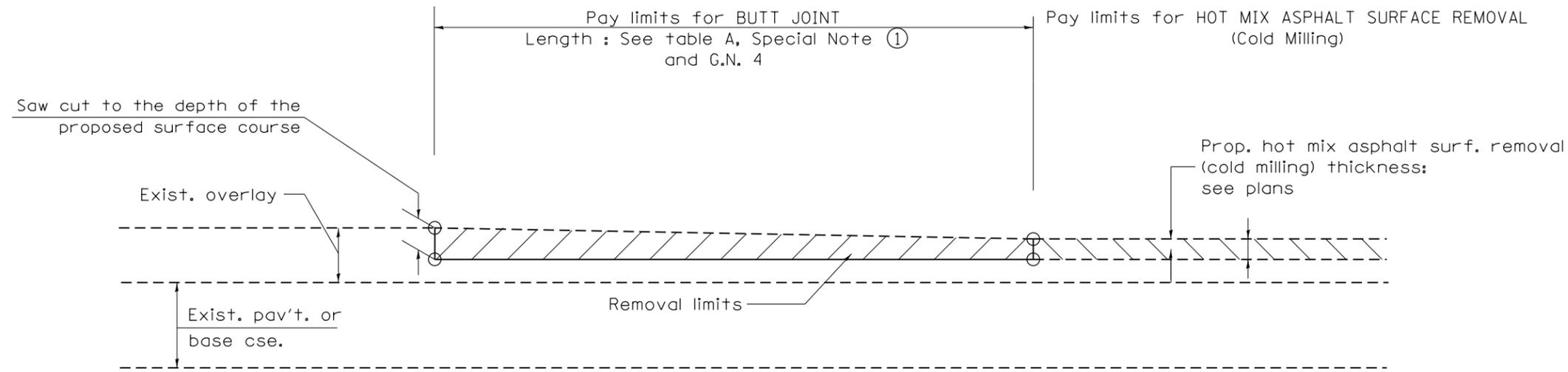
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS

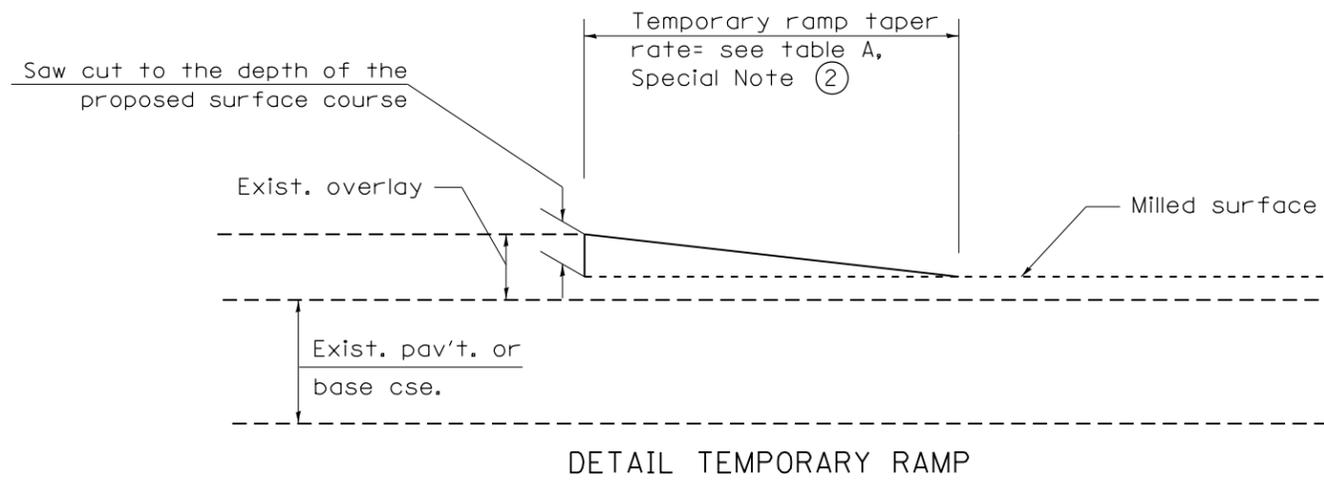
NOT TO SCALE

SHT. 1 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)/BRR	PUTNAM	64	51
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	

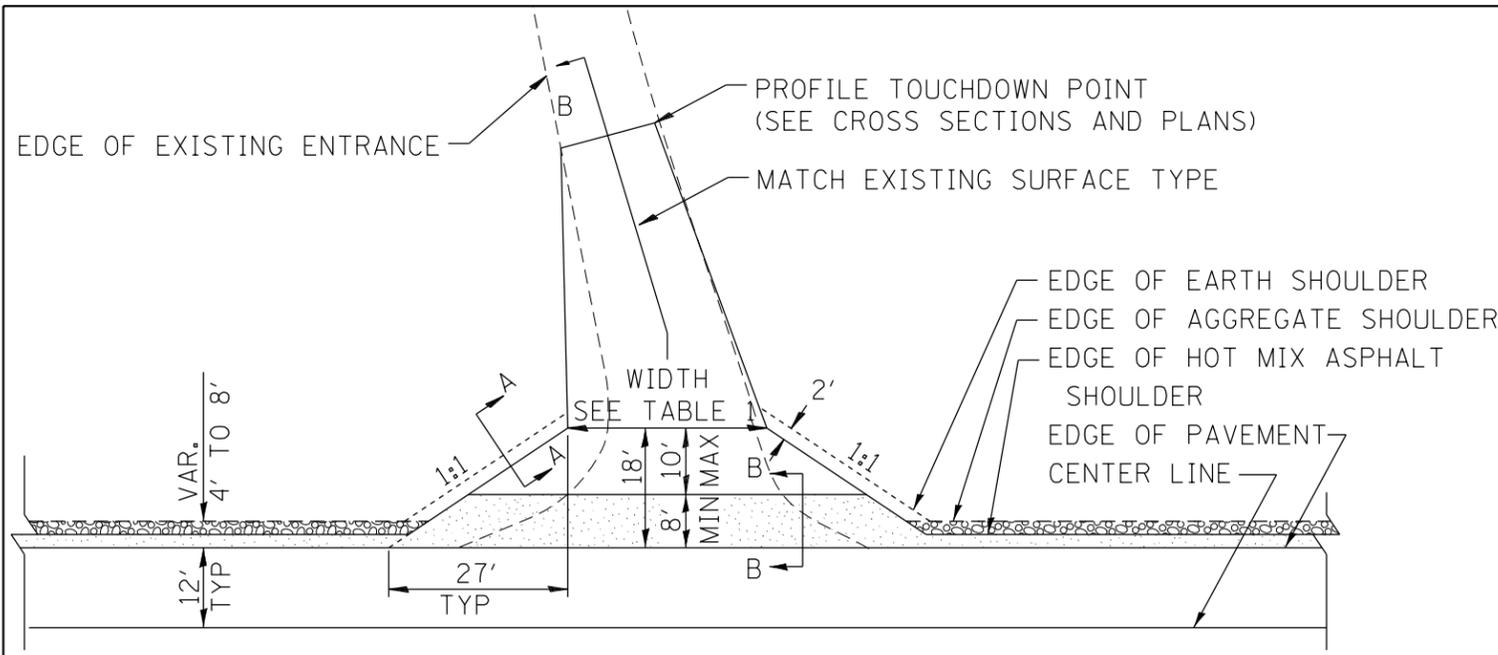


CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



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

				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINTS		SHT. 2 OF 3 CADD STD. 406101-D4	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
619	(120BR)BRR	PUTNAM	64	52					
			CONTRACT NO. 68741						
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



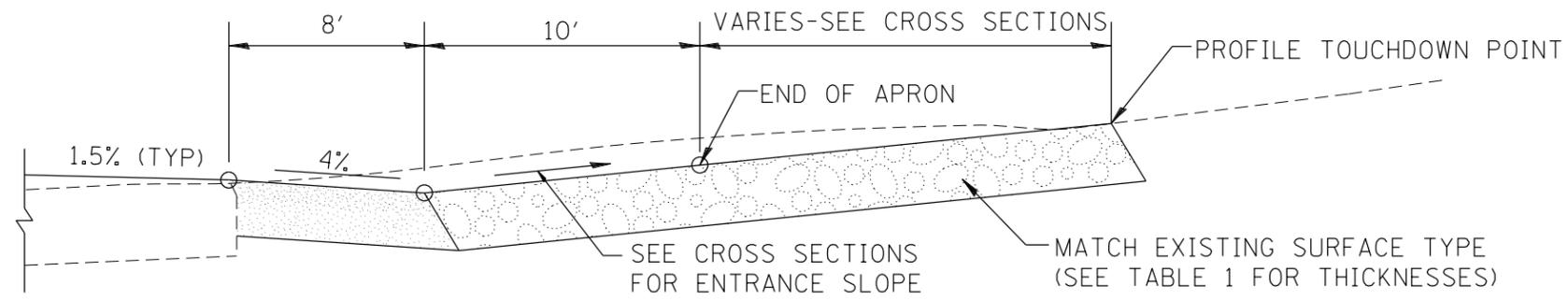
HOT MIX ASPHALT SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

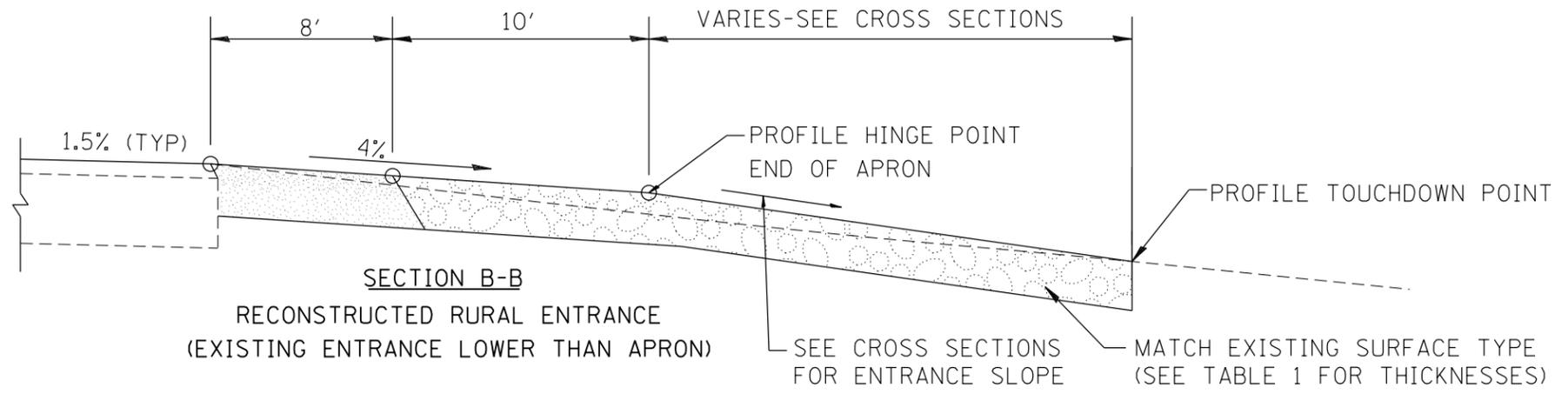
COMMERCIAL / FARM-RELATED ENTRANCE

TABLE 1					
RURAL ENTRANCE DESIGN					
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	14'(4.3m) Min., 24'(7.2m) Max., 24'(7.2m) Min., 35'(10.7m) Max.
FLARE	1:1.5				
MAX. GRADE (G)	12%		12%		10%

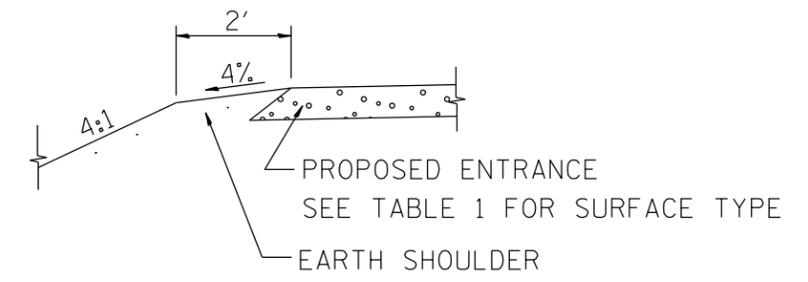
SURFACE TYPE			
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"
AGGREGATE SURFACE COURSE	6"	8"	—
PCC DRIVEWAY PAVEMENT	6"	—	7"



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.	9-15-15	UPDATED TABLE 1	R.D.
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR	2-29-16	MINOR CORRECTIONS	R.D.
09-15-05	RADIUS FOR FLARE	M.M.A.	5-9-17	CHANGED TAPER RATE	R.D.

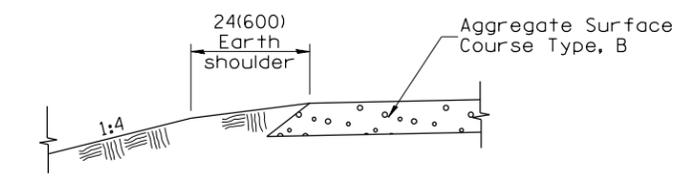
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RURAL ENTRANCES FOR "3R" PROJECTS

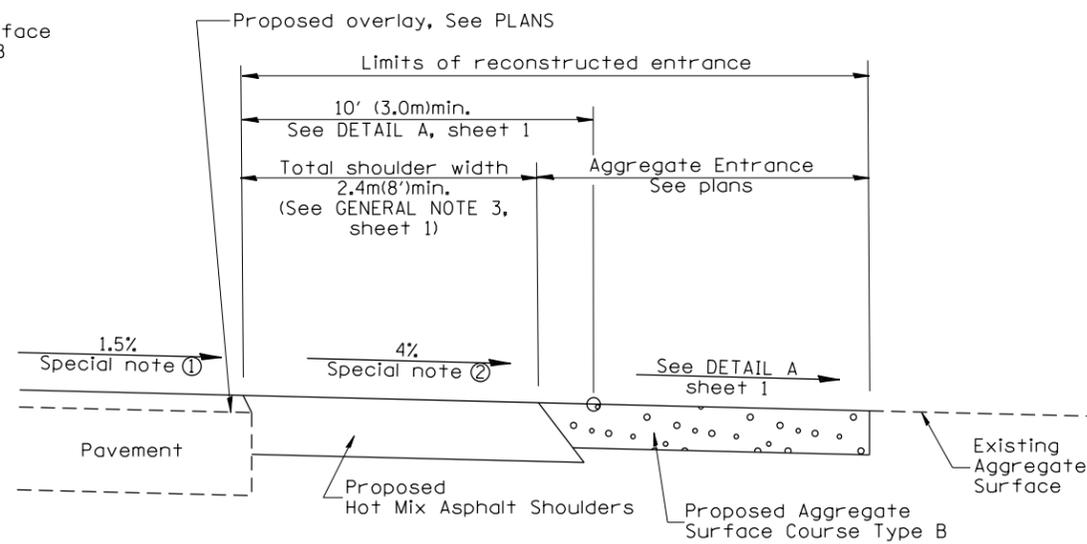
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 406301-D4

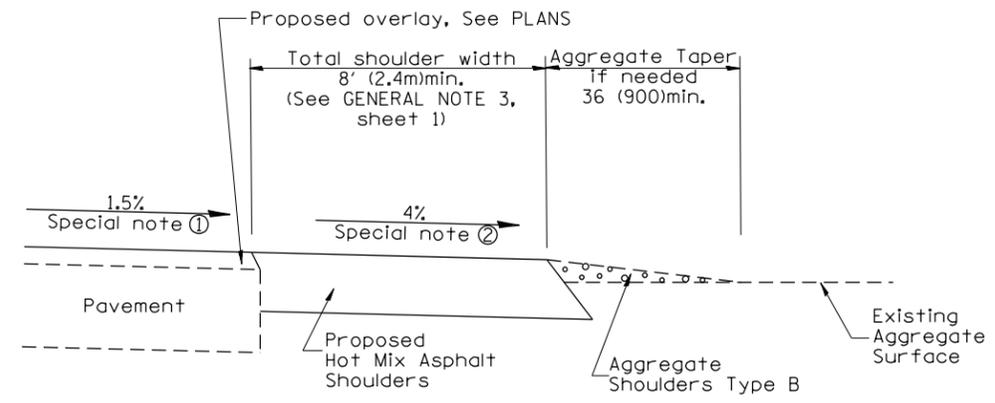
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	54
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	



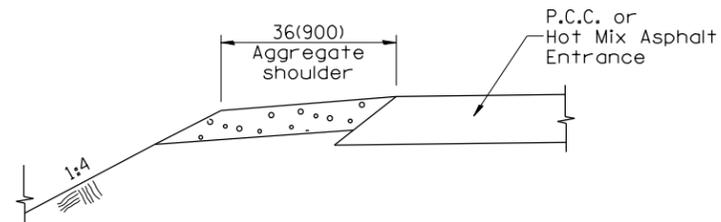
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



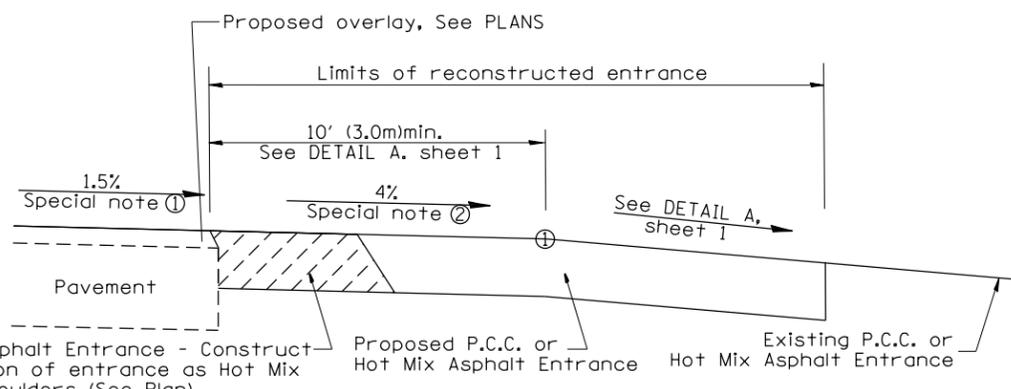
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



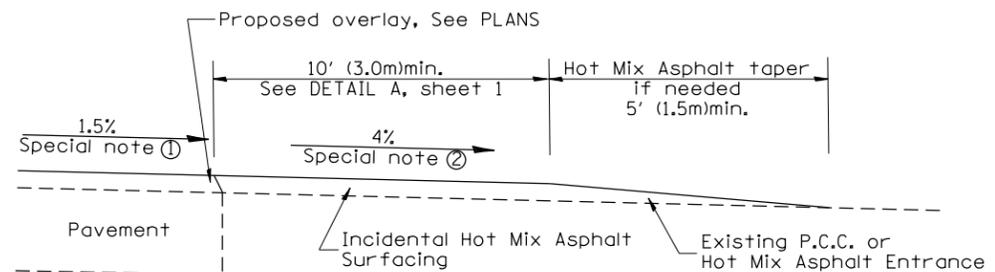
SECTION B-B
EXISTING AGGREGATE ENTRANCE



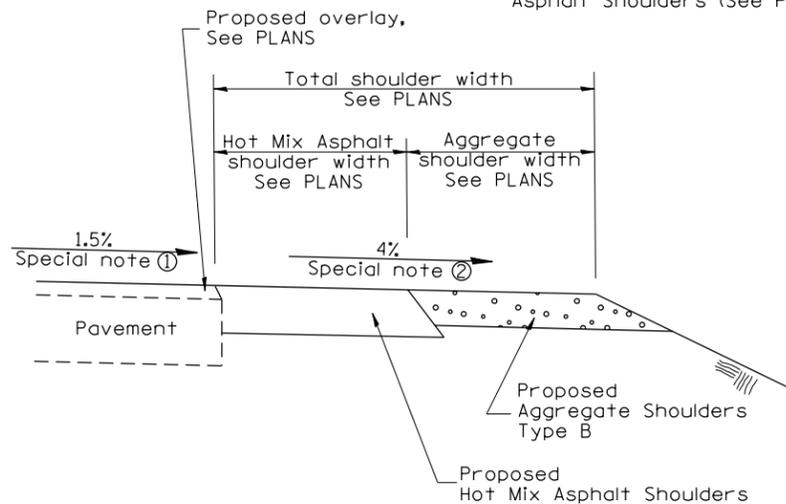
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



SECTION D-D
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



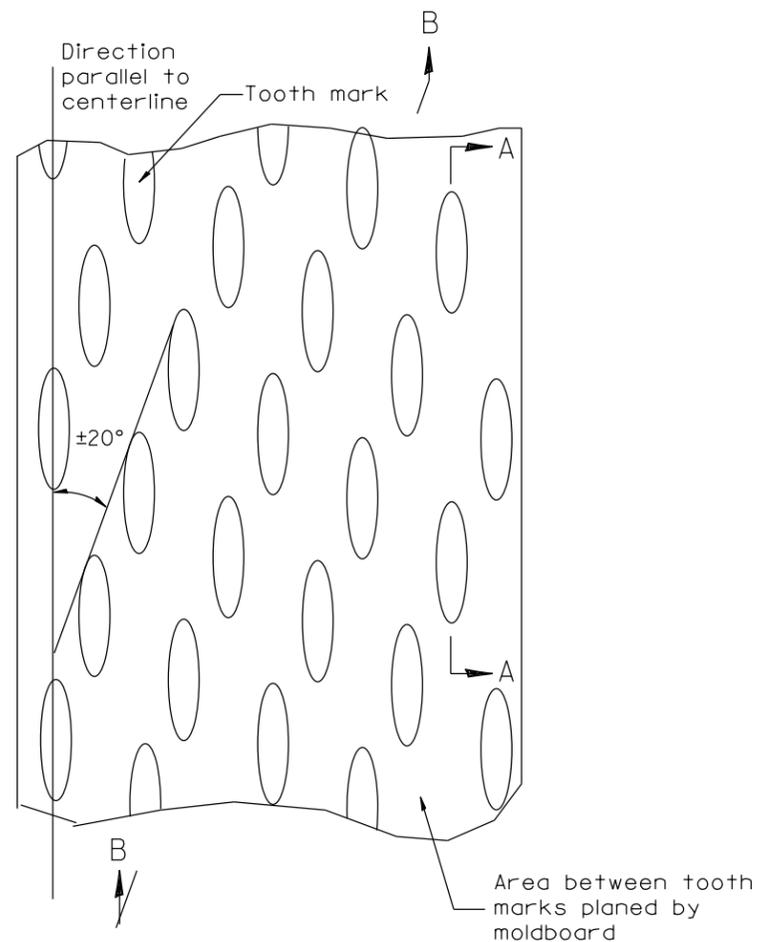
SECTION E-E
MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

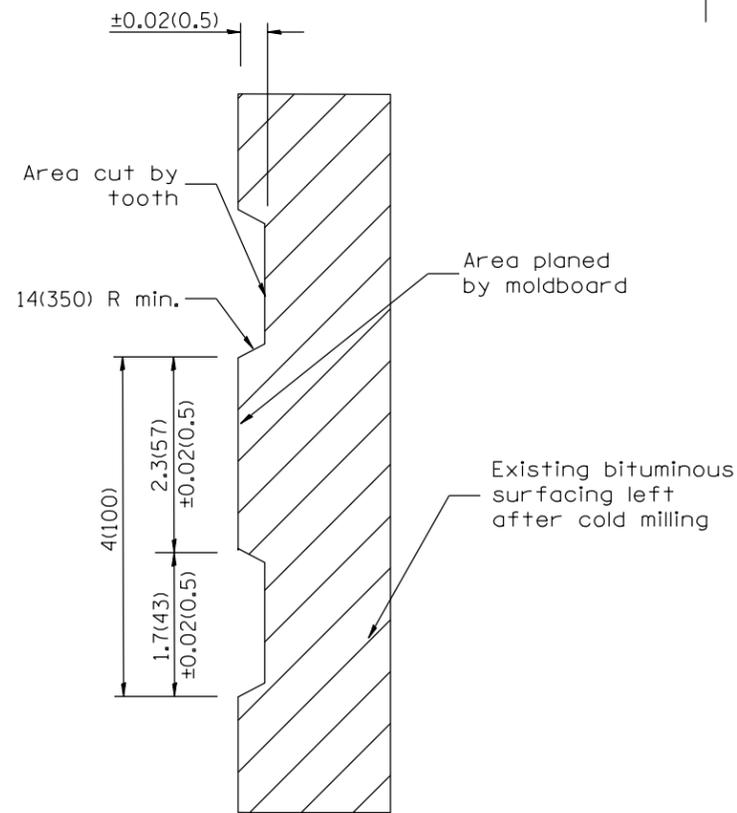
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RURAL ENTRANCES FOR "3R" PROJECTS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								619	(120BR)/BRR	PUTNAM	64	55
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 406301-D4				CONTRACT NO. 68741				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



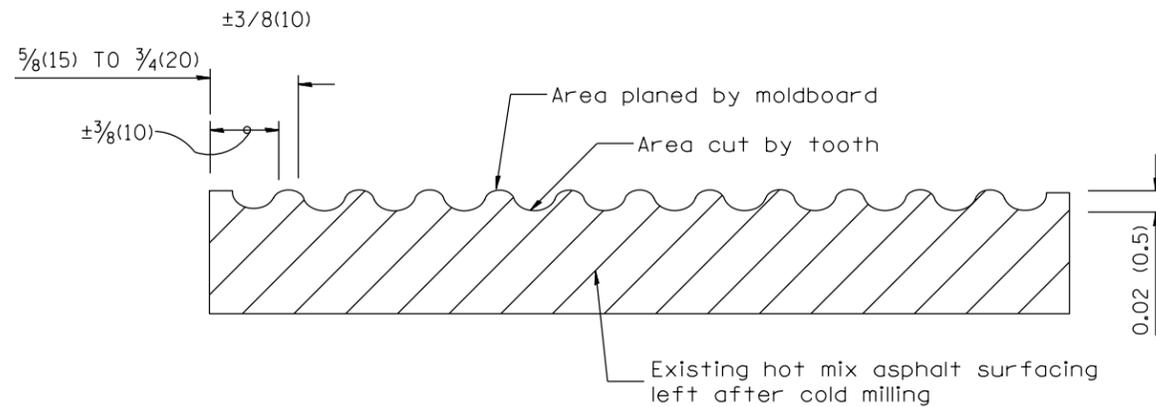
PLAN

General notes:

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



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

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

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

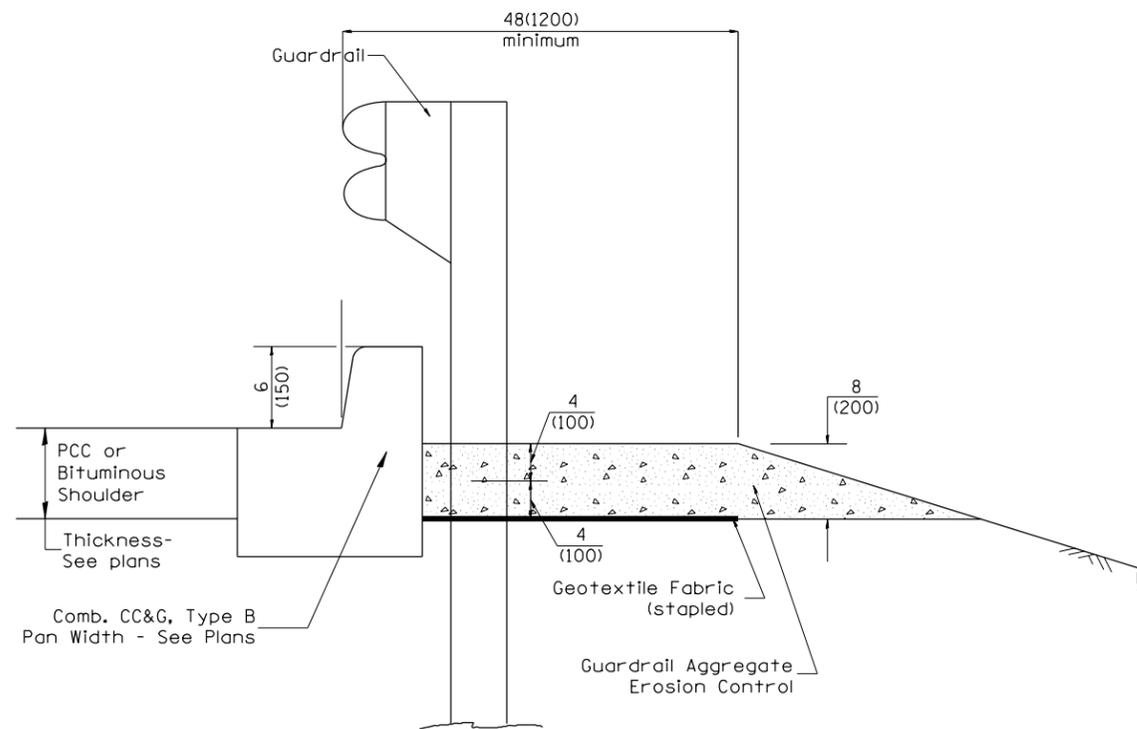
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

CADD STD. 440001-D4

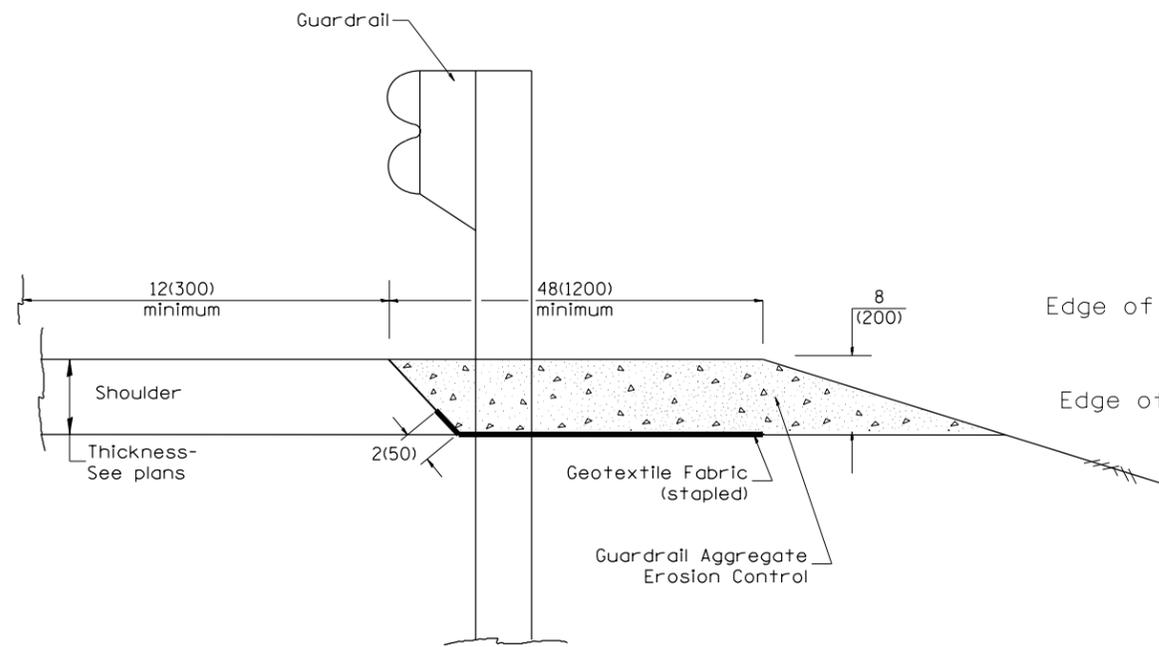
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)/BRR	PUTNAM	64	56
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	



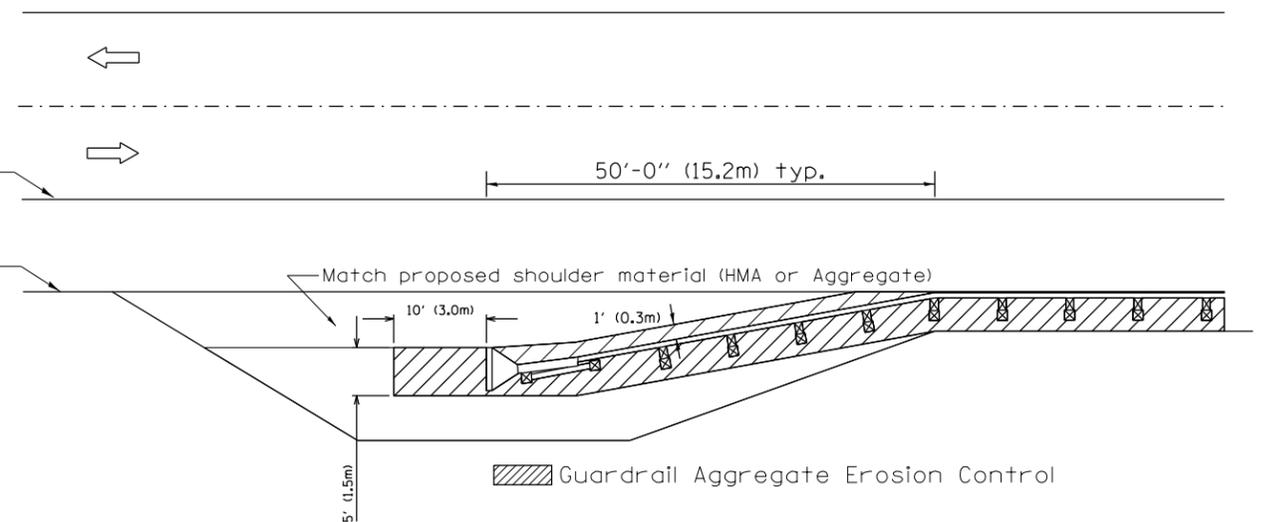
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

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



TYPICAL SECTION WITHOUT EROSION CONTROL CURB



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

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

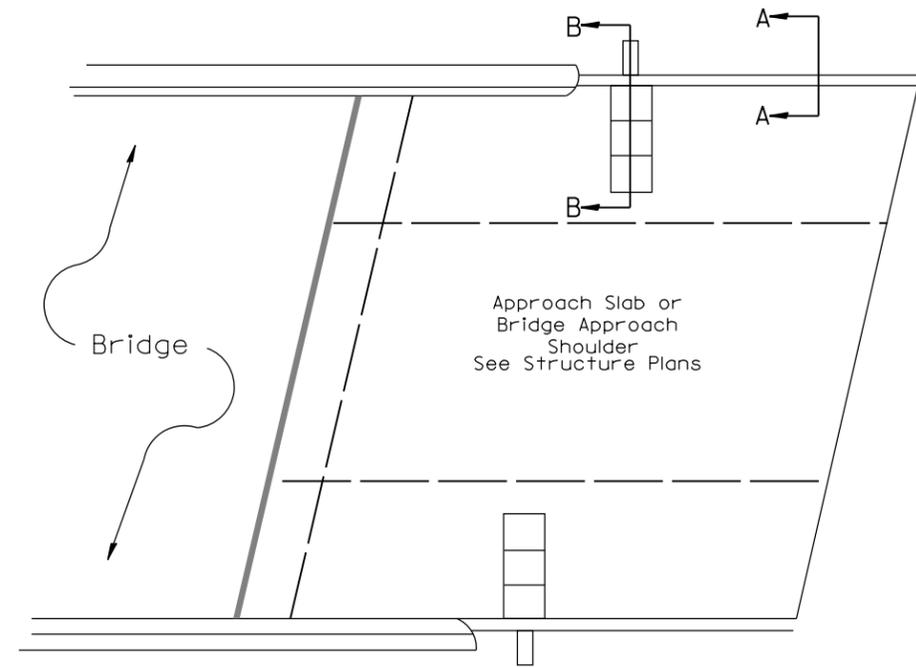
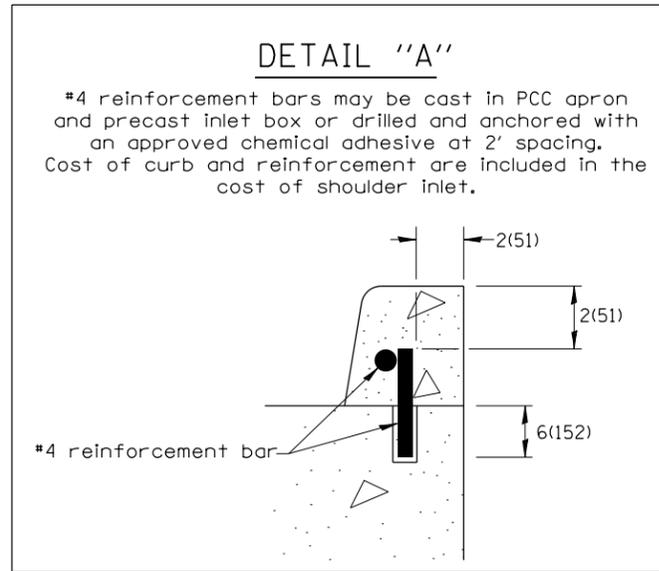
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

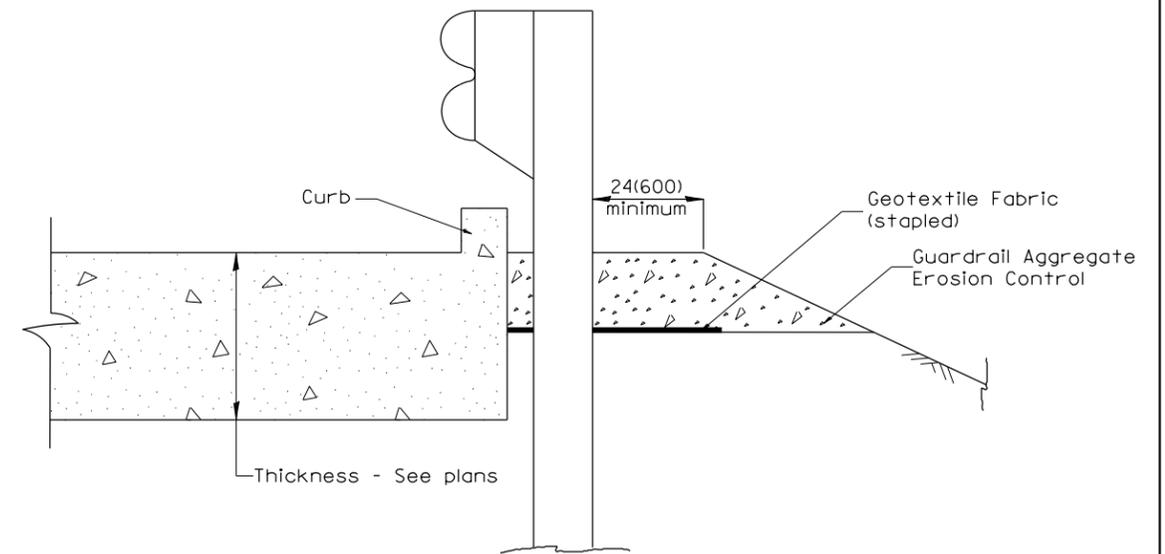
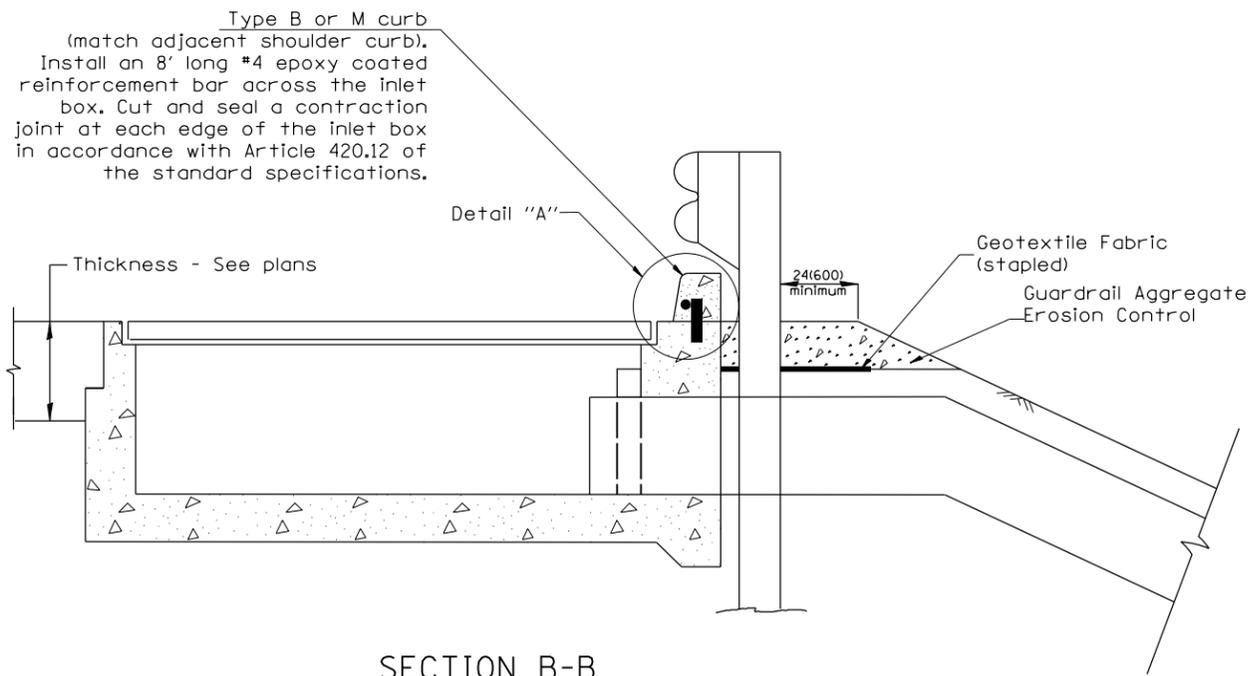
GUARDRAIL EROSION CONTROL TREATMENTS

SHT. 1 OF 2
CADD STD. 630101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	57
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT

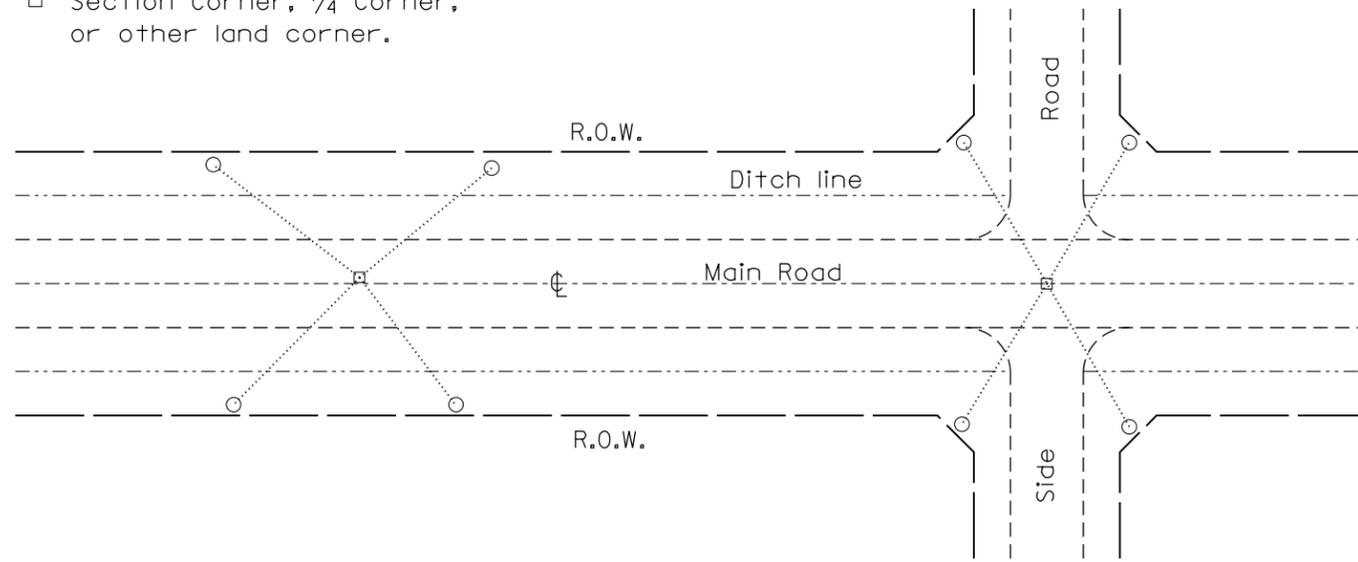


All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A. RTE. 619	SECTION (120BR)/BRR	COUNTY PUTNAM	TOTAL SHEETS 64	SHEET NO. 58
				NOT TO SCALE				SHT. 2 OF 2 CADD STD. 630101-D4		CONTRACT NO. 68741		
								<small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>				

PERMANENT SURVEY TIES

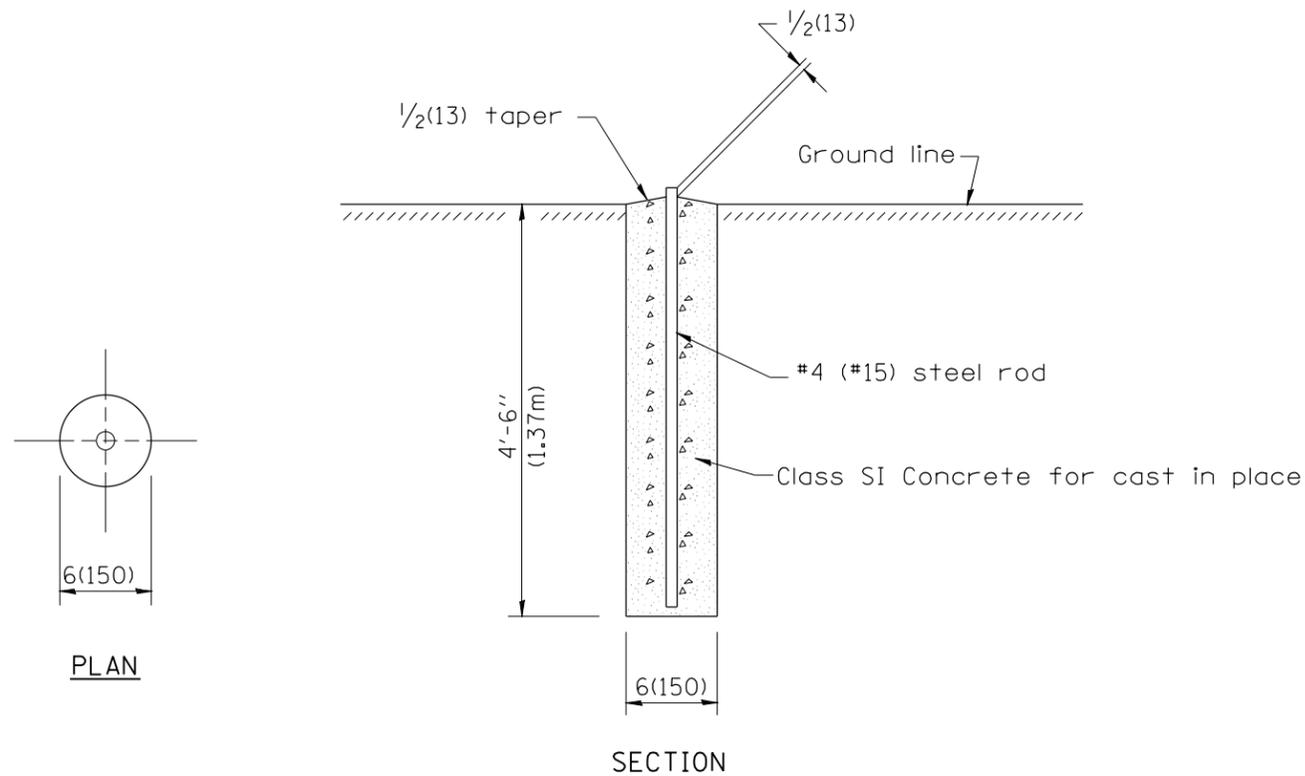
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



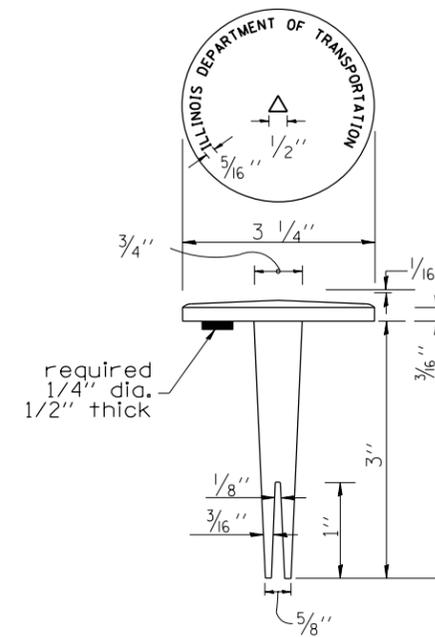
TYPICAL APPLICATION

GENERAL NOTES

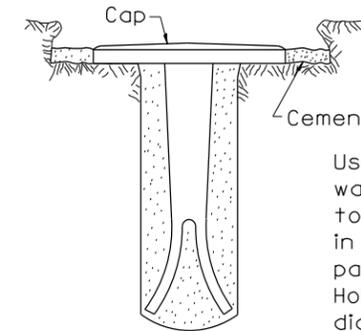
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



PERMANENT SURVEY MARKERS

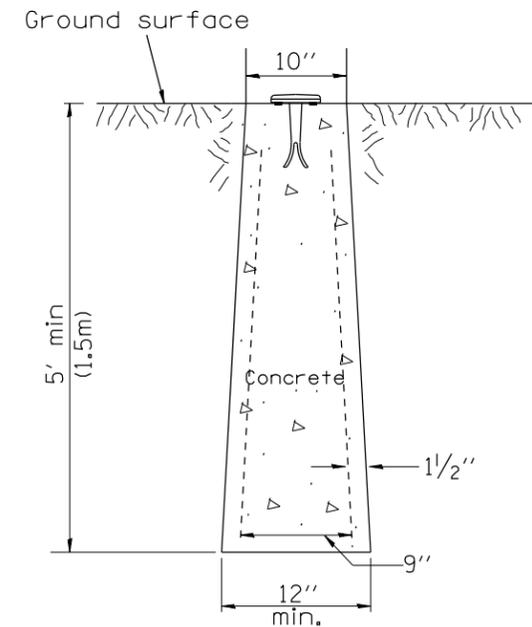


BRASS TABLET



Tablet constructed in rock ledge or concrete.

TYPE I



**TYPE II
CAST-IN-PLACE MARKER**

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

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

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.	08-21-13	CHANGED MIN. DIAMETER	R.D.
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.	08-25-15	REVISED MATERIAL	R.D.

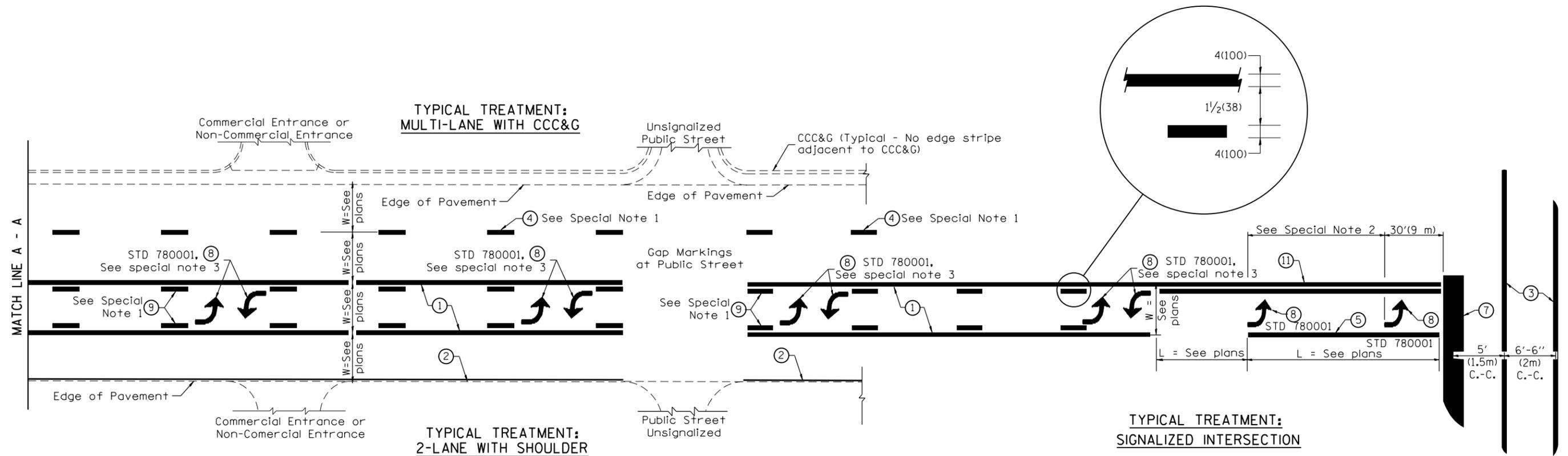
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II**

NOT TO SCALE

CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	59
CONTRACT NO. 68741				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

TYPICAL PAVEMENT MARKING LEGEND

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

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

SPECIAL NOTES

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

GENERAL NOTES

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

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

TYPICAL PAVEMENT MARKINGS

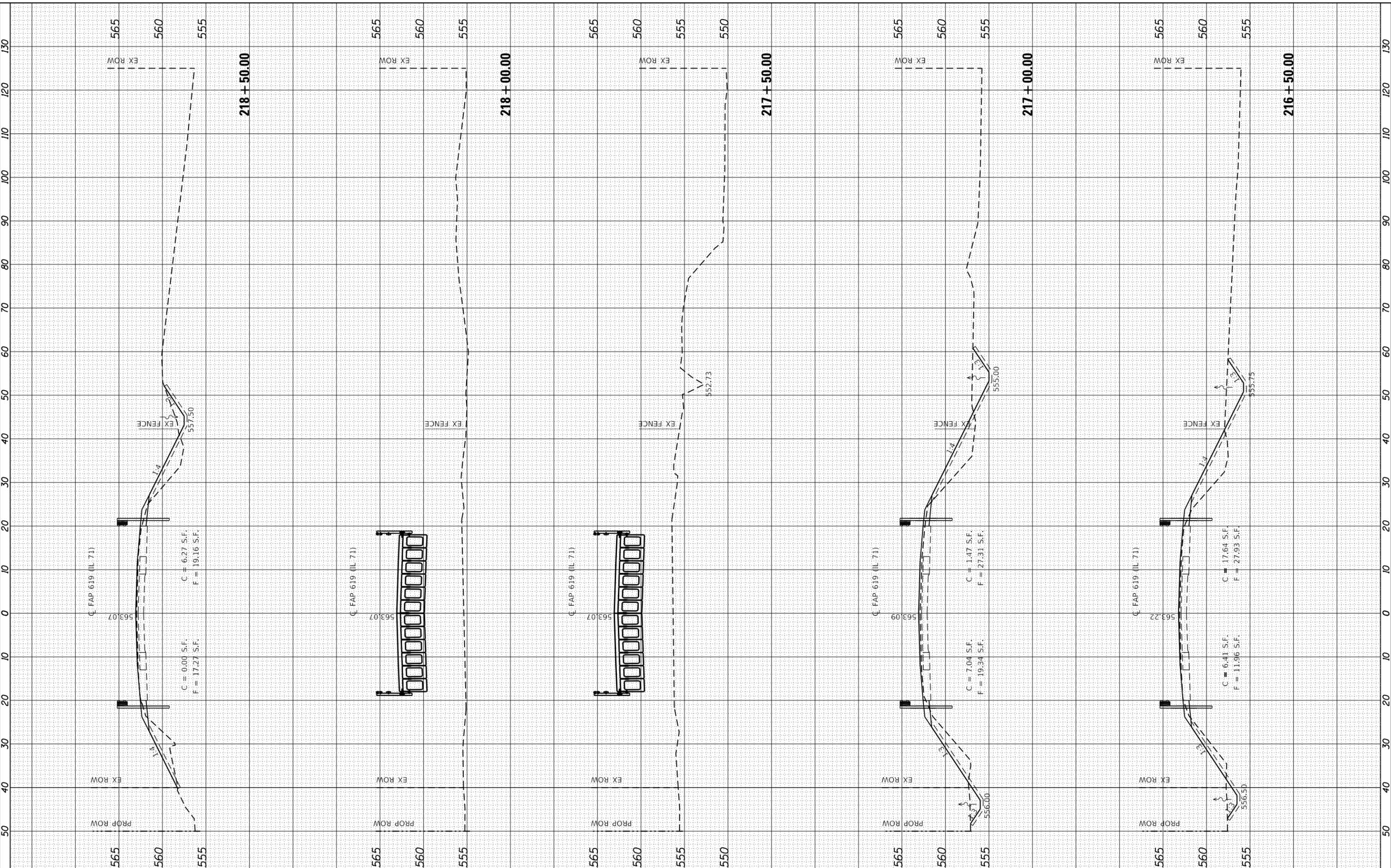
SHT. 1 OF 2
CADD STD. 780001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)BRR	PUTNAM	64	60
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68741	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\DOT\BRR\FE619_0_158_023_Cofee_Creek\CADD\CADD_SHEETS\120811-121813\sect1.dgn



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 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = S1634
 TUG PROJECT NO. 3119049-01
 PLOT SCALE = 20.0000' / 1" /
 PLOT DATE = 5/28/2020

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 216+50 TO STA. 218+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120BR)/BRR	PUTNAM	64	63
CONTRACT NO. 68741				

ILLINOIS FED. AID PROJECT

