

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	SSTOTS	1
		ILLINOIS	CONTRACT NO.	CONTRCS

INDEX OF SHEETS

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- 3.-4. SUMMARY OF QUANTITIES
- 5.-7. TYPICAL SECTIONS
8. SCHEDULE OF QUANTITIES
9. ALIGNMENT, BENCHMARKS, AND TIES
10. REMOVAL PLAN
11. PLAN AND PROFILE
12. CREEK PLAN AND PROFILE
13. EROSION CONTROL PLAN
14. RIGHT OF WAY PLAN
15. GUARDRAIL DETAILS
- 16.-30. STRUCTURE PLANS SN 072-4715
- 31.-35. IDOT DISTRICT 4 STANDARD DETAILS
- 36.-39. CROSS SECTIONS-EVANS MILL ROAD
- 40.-42. CROSS SECTIONS-CREEK
- IDOT STANDARD DRAWINGS

PLANS FOR PROPOSED BRIDGE REPLACEMENT

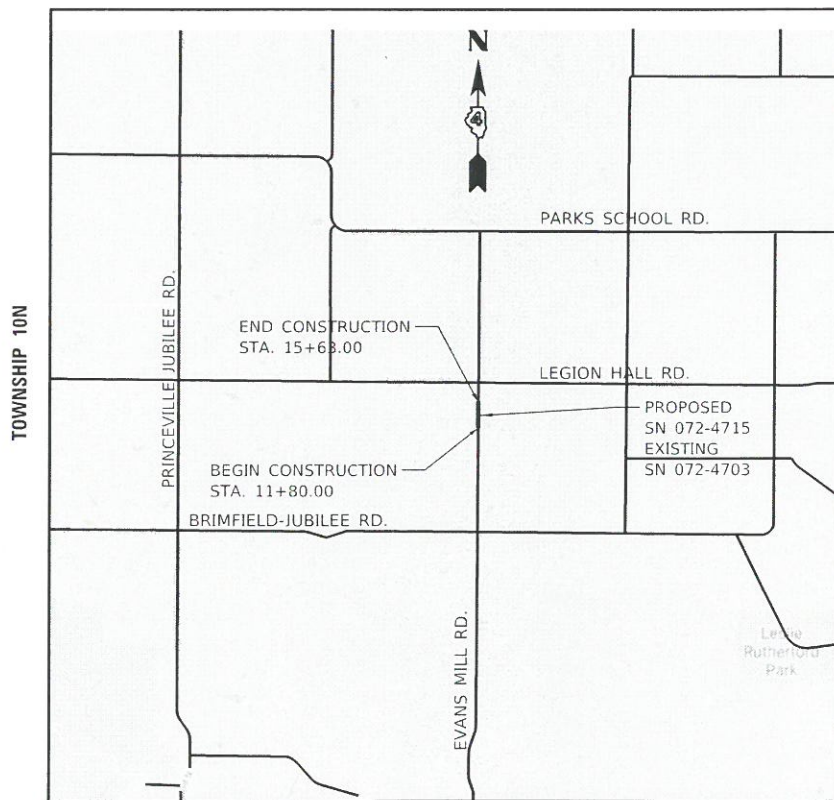
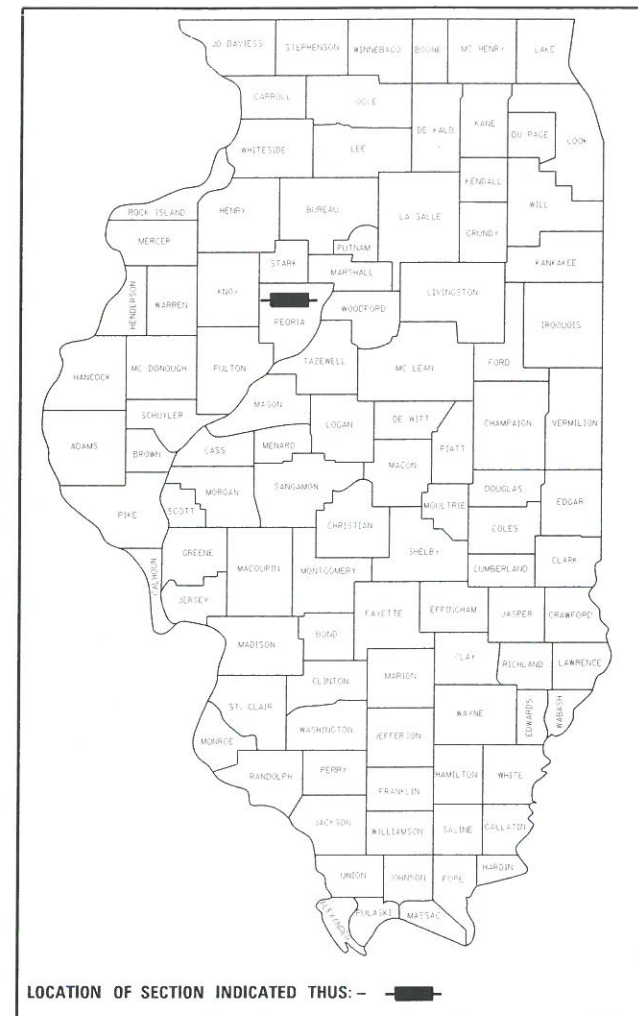
TOWNSHIP BRIDGE PROGRAM TR 184 (EVANS MILL ROAD) RADNOR TOWNSHIP PEORIA COUNTY SECTION 17-16118-00-BR

HIGHWAY STANDARDS

- | | |
|-------------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 515001-04 | NAME PLATES FOR BRIDGES |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| B.L.R. 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| B.L.R. 22-7 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC) |

IDOT DISTRICT 4 STANDARDS

- | | |
|-----------|--------------------------------------|
| 406101-D4 | BUTT JOINTS |
| 630101-D4 | GUARDRAIL EROSION CONTROL TREATMENTS |



GROSS LENGTH = 383.00 FT. = 0.07 MILE
NET LENGTH = 312.64 FT. = 0.06 MILE

ADT (2017) = 200, ADT (2041) = 254, SU/MU=12%
HIGHWAY CLASS: IV
FUNCTIONAL CLASSIFICATION: LOCAL
DESIGN SPEED: 55 MPH
POSTED SPEED LIMIT: 55 MPH
DESIGN POLICY: BLR MANUAL

Matthew Dawson
MATTHEW G. DAWSON
062-057939
STATE OF ILLINOIS
LICENSED PROFESSIONAL ENGINEER

DATE SIGNED: 9/16/20
LIC. EXP. DATE: 11/30/2021

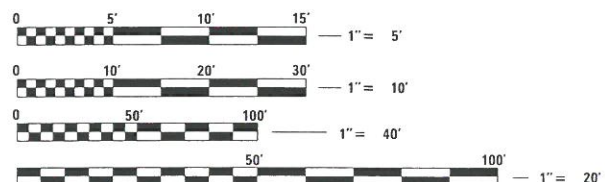
**PRINTED BY THE AUTHORITY
PEORIA COUNTY HIGHWAY DEPARTMENT**

APPROVED	<i>Sept. 16 2020</i> <i>Cindy Berube</i> COUNTY ENGINEER	20
APPROVED	<i>9/16/2020</i> <i>James Smith</i> TOWNSHIP ROAD COMMISSIONER	20
PASSED		20
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS		
Releasing For Bid Based on Limited Review		20
REGION THREE ENGINEER		
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

DATE: 9/16/2020

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



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.

PROJECT ENGINEER: MATTHEW DAWSON, P.E.
PROJECT MANAGER: CINDY LOOS, P.E.

CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	96
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	92
20200100	EARTH EXCAVATION	CU YD	358
20300100	CHANNEL EXCAVATION	CU YD	644
20400800	FURNISHED EXCAVATION	CU YD	279
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2353
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2353
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	49
* 28000305	TEMPORARY DITCH CHECKS	FOOT	91
* 28000400	PERIMETER EROSION BARRIER	FOOT	460
28100105	STONE RIPRAP, CLASS A3	SQ YD	124
28100107	STONE RIPRAP, CLASS A4	SQ YD	663
28200200	FILTER FABRIC	SQ YD	663
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	477

CODE NO.	ITEM	UNIT	QUANTITY
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1572
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	175
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	41
40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	157
40604050	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	TON	82
44000100	PAVEMENT REMOVAL	SQ YD	621
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	273
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
52000025	PREFORMED JOINT SEAL 2"	FOOT	80
50200100	STRUCTURE EXCAVATION	CU YD	315
50300225	CONCRETE STRUCTURES	CU YD	46.6
50300260	BRIDGE DECK GROOVING	SQ YD	219
50300280	CONCRETE ENCASEMENT	CU YD	4.8
50300300	PROTECTIVE COAT	SQ YD	240

* SPECIALTY ITEMS

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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	DRAWN - RLA	REVISED -
PLOT SCALE = 2.00' / in.	CHECKED - MGD	REVISED -
PLOT DATE = 9/15/2020	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EVANS MILL ROAD
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	3
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	QUANTITY
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6310
50800515	BAR SPLICERS	EACH	64
51201400	FURNISHING STEEL PILES HP10X42	FOOT	180
51202305	DRIVING PILES	FOOT	180
51203400	TEST PILE STEEL HP10X42	EACH	2
51204650	PILE SHOES	EACH	14
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	16
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	149
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	73
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6
67100100	MOBILIZATION	L SUM	1

CODE NO.	ITEM	UNIT	QUANTITY
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16
* X6300155	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES (SPECIAL)	FOOT	156
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	60
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	105
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	16
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	138
* XX006343	SEEDING (COMPLETE)	SQ YD	2353
	PRESS-BRAKE-FORMED STEEL TUB GIRDER (PBFSTG) SYS.	SQ FT	2158
	ULTRA-HIGH PERFORMANCE CONCRETE (UHPC) JOINTS	CU FT	102

* SPECIALTY ITEMS

LAYOUT	RDH	8/10/2020
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REVIEWED	MGD	9/16/2020

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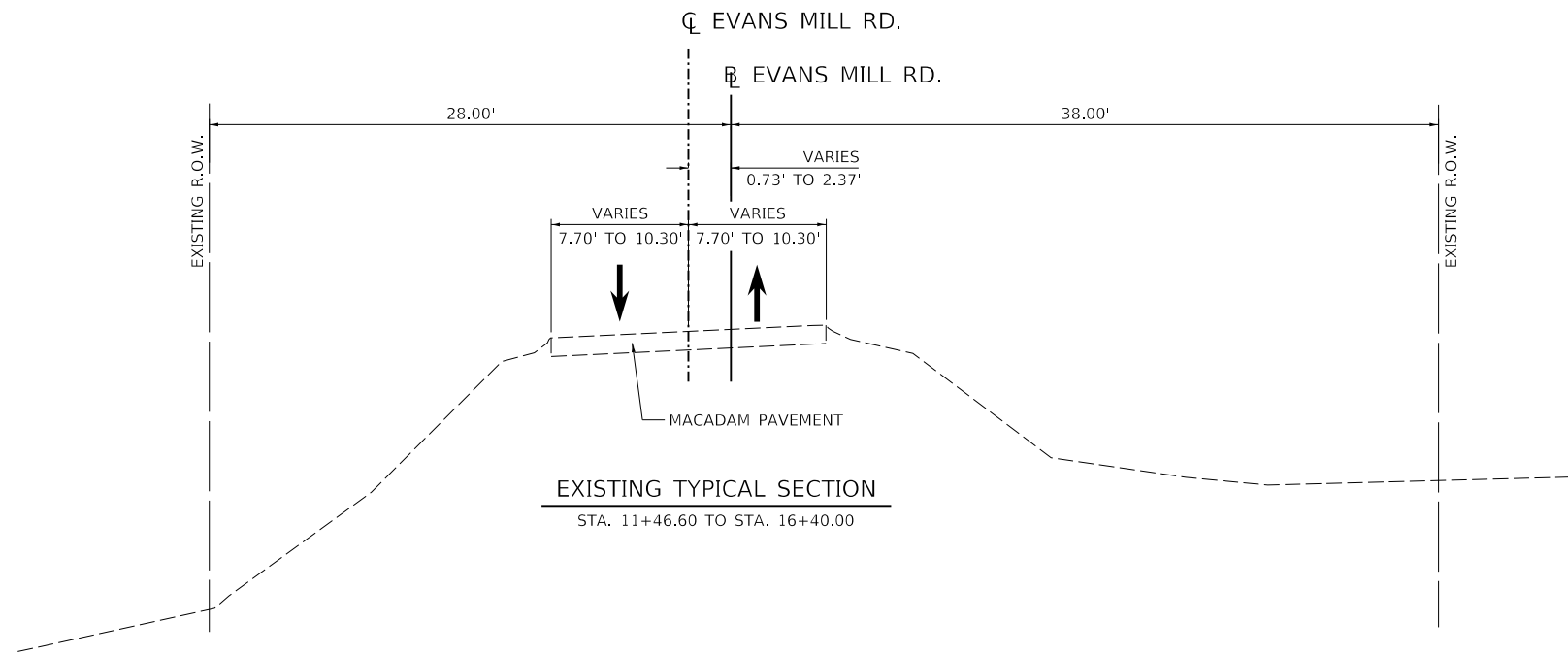
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PLOT DATE = 9/16/2020	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EVANS MILL ROAD
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	4
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
 STA. 11+46.60 TO STA. 16+40.00

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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PLOT DATE = 9/15/2020	CHECKED - MGD	REVISED -
	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EVANS MILL ROAD EXISTING TYPICAL SECTIONS			
SCALE: NTS	SHEET	OF	SHEETS
STA.	TO STA.		

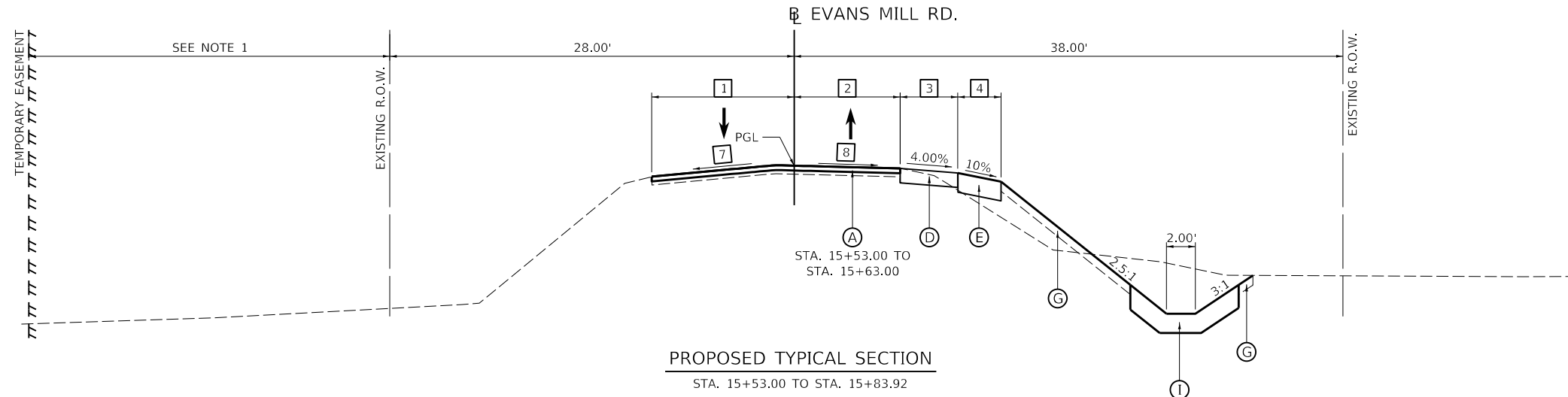
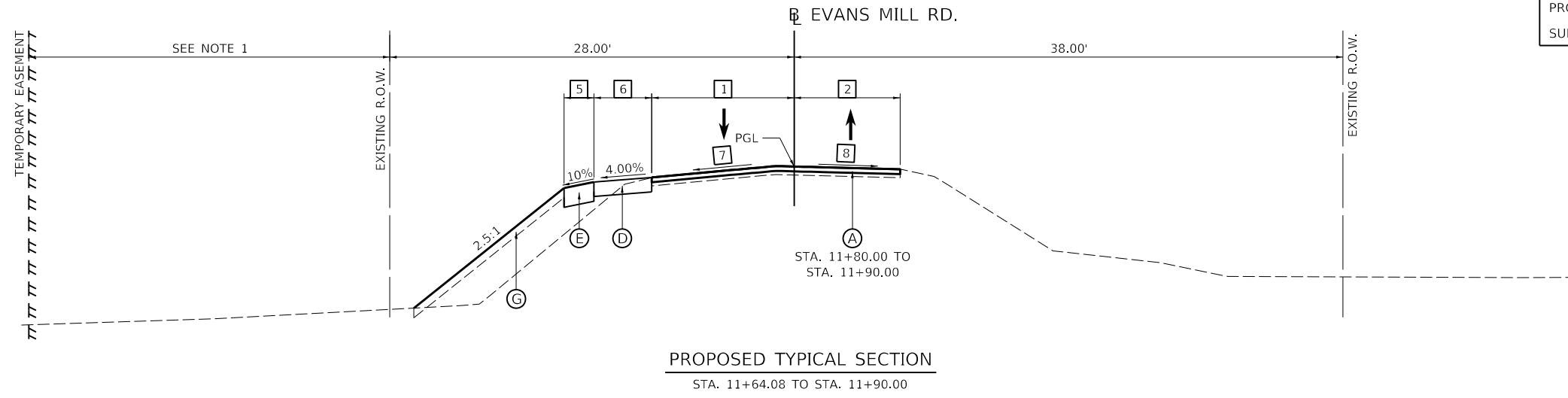
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. SEE PLAN SHEETS FOR R.O.W. AND EASEMENT LOCATIONS.

- LEGEND**
- (A) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
 - (B) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
 - (C) SUBBASE GRANULAR MATERIAL, TYPE A, 12"
 - (D) AGGREGATE SHOULDERS, 6"
 - (E) GUARDRAIL AGGREGATE EROSION CONTROL, 8"
 - (F) STEEL PLATE BEAM GUARDRAIL, TYPE A
 - (G) TOPSOIL FURNISH AND PLACE, 4"
 - (H) RIPRAP, CLASS A4
 - (I) RIPRAP, CLASS A3

HMA MIXTURE REQUIREMENTS		
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:		
LOCATION:	EVANS MILL ROAD	
MIXTURE USE(S):	HMA SURFACE COURSE	HMA BINDER COURSE
PG:	PG 58-22	PG 58-22
DESIGN AIR VOIDS:	4.0% @ N-50	4.0% @ N-50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICITION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A

STRUCTURAL DESIGN TRAFFIC:	YEAR <u>2031</u>	ADT <u>230</u>
PV = <u>88%</u>	SU = <u>9%</u>	MU = <u>3%</u>
ROAD/STREET CLASSIFICATION:	CLASS <u>IV</u>	
PERCENTAGE OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE	P = <u>50%</u> S = <u>50%</u> M = <u>50%</u>	
TRAFFIC FACTOR:	ACTUAL TF = <u>N/A</u>	AC TYPE = <u>N/A</u>
	MINIMUM TF = <u>N/A</u>	
PG GRADE: Binder=	<u>58-22</u>	Surface = <u>58-22</u>
SUBGRADE SUPPORT RATING:	SSR = <u>POOR</u> (STA. <u>11+80.00</u> TO <u>15+63.00</u>)	
	SSR = _____ (STA. _____ TO _____)	



- 1** LANE WIDTH - LEFT
 STA. 11+64.08 TO STA. 11+90.00 = TRANSITION FROM 9.76' TO 9.94'
 STA. 15+53.00 TO STA. 15+83.92 = TRANSITION FROM 11.54' TO 11.43'
- 2** LANE WIDTH - RIGHT
 STA. 11+64.08 TO STA. 11+90.00 = TRANSITION FROM 7.62' TO 7.27'
 STA. 15+53.00 TO STA. 15+83.92 = TRANSITION FROM 8.39' TO 8.92'
- 3** SHOULDER WIDTH - RIGHT
 STA. 11+64.08 TO STA. 11+90.00 = 0.00'
 STA. 15+53.00 TO STA. 15+66.31 = 4.00'
 STA. 15+66.31 TO STA. 15+83.92 = TRANSITION FROM 4.00' TO 0.00'
- 4** GUARDRAIL AGGREGATE WIDTH - RIGHT
 STA. 11+64.00 TO STA. 11+90.00 = 0.00'
 STA. 15+53.00 TO STA. 15+66.31 = TRANSITION FROM 3.02' TO 0.00'
 STA. 15+66.31 TO STA. 15+83.92 = 0.00'
- 5** GUARDRAIL AGGREGATE WIDTH - LEFT
 STA. 11+64.08 TO STA. 11+86.92 = 0.00'
 STA. 11+86.92 TO STA. 11+90.00 = TRANSITION FROM 0.00' TO 0.50'
 STA. 15+53.00 TO STA. 15+83.92 = 0.00'
- 6** SHOULDER WIDTH - LEFT
 STA. 11+64.08 TO STA. 11+86.92 = TRANSITION FROM 0.00' TO 4.00'
 STA. 11+86.92 TO STA. 11+90.00 = 4.00'
 STA. 15+53.00 TO STA. 15+83.92 = 0.00'
- 7** LANE SLOPE - LEFT
 STA. 11+80.00 TO STA. 11+90.00 = -4.53%
 STA. 15+53.00 TO STA. 15+63.00 = -4.63%
- 8** LANE SLOPE - RIGHT
 STA. 11+80.00 TO STA. 11+90.00 = -1.26%
 STA. 15+53.00 TO STA. 15+63.00 = -1.95%

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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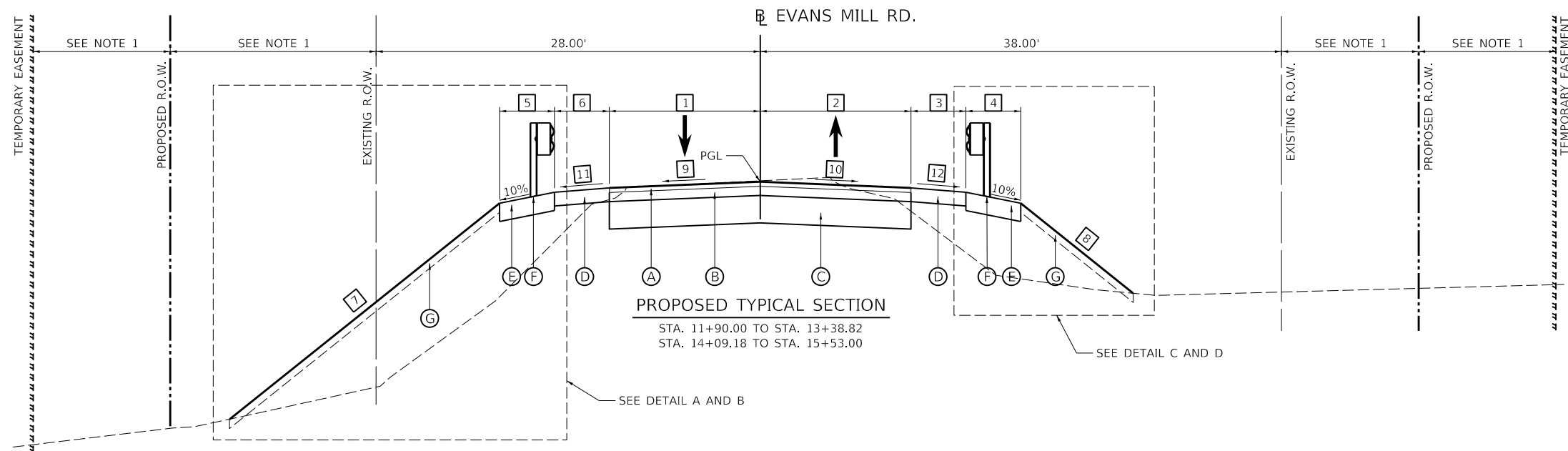
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EVANS MILL ROAD
PROPOSED TYPICAL SECTIONS

SCALE: NTS SHEET OF SHEETS STA. TO STA.

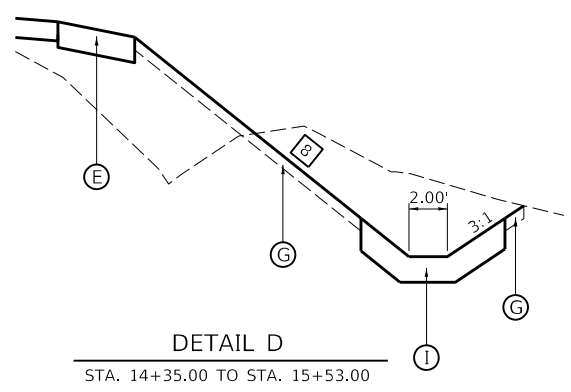
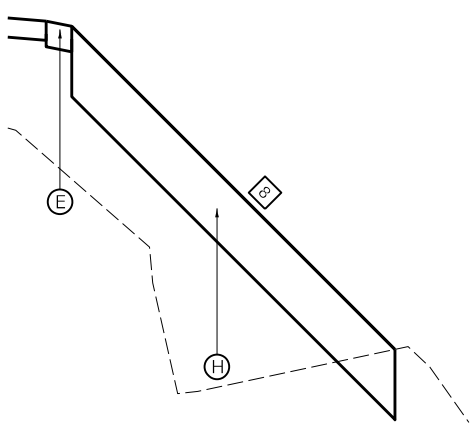
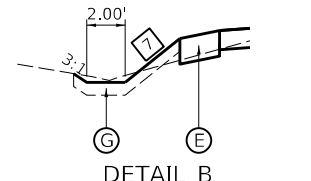
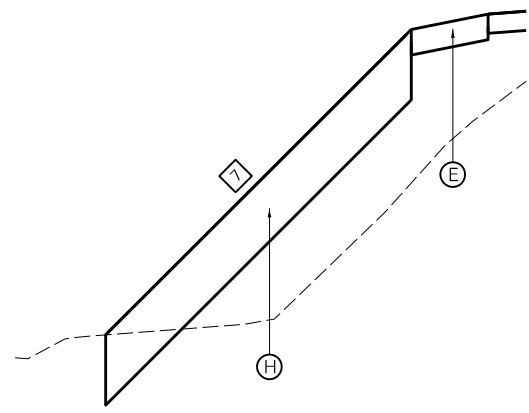
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



BRIDGE OMISSION
 STA. 13+38.82 TO STA. 14+09.18

- LEGEND**
- (A) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
 - (B) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
 - (C) SUBBASE GRANULAR MATERIAL, TYPE A, 12"
 - (D) AGGREGATE SHOULDERS, 6"
 - (E) GUARDRAIL AGGREGATE EROSION CONTROL, 8"
 - (F) STEEL PLATE BEAM GUARDRAIL, TYPE A
 - (G) TOPSOIL FURNISH AND PLACE, 4"
 - (H) RIPRAP, CLASS A4
 - (I) RIPRAP, CLASS A3

- 1** LANE WIDTH - LEFT
 STA. 11+90.00 TO STA. 12+40.00 = TRANSITION FROM 9.94' TO 11.00'
 STA. 12+40.00 TO STA. 15+20.00 = 11.00'
 STA. 15+20.00 TO STA. 15+53.00 = TRANSITION FROM 11.00' TO 11.54'
- 2** LANE WIDTH - RIGHT
 STA. 11+90.00 TO STA. 12+40.00 = TRANSITION FROM 7.27' TO 11.00'
 STA. 12+40.00 TO STA. 15+20.00 = 11.00'
 STA. 15+20.00 TO STA. 15+53.00 = TRANSITION FROM 11.00' TO 8.39'
- 3** SHOULDER WIDTH - RIGHT
 STA. 11+90.00 TO STA. 12+00.05 = TRANSITION FROM 2.30' TO 4.00'
 STA. 12+00.05 TO STA. 15+53.00 = 4.00'
- 4** GUARDRAIL AGGREGATE WIDTH - RIGHT
 STA. 11+90.00 TO STA. 12+13.80 = 0.00'
 STA. 12+13.80 TO STA. 12+37.80 = TRANSITION FROM 0.00' TO 4.00'
 STA. 12+37.80 TO STA. 15+20.16 = 4.00'
 STA. 15+20.16 TO STA. 15+35.92 = TRANSITION FROM 4.00' TO 5.26'
 STA. 15+35.92 TO STA. 15+53.00 = TRANSITION FROM 5.26' TO 3.02'
- 5** GUARDRAIL AGGREGATE WIDTH - LEFT
 STA. 11+90.00 TO STA. 12+12.08 = TRANSITION FROM 0.50' TO 4.00'
 STA. 12+12.08 TO STA. 15+10.20 = 4.00'
 STA. 15+10.20 TO STA. 15+34.20 = TRANSITION FROM 4.00' TO 0.00'
 STA. 15+34.20 TO STA. 15+53.00 = 0.00'
- 6** SHOULDER WIDTH - LEFT
 STA. 11+90.00 TO STA. 15+42.66 = 4.00'
 STA. 15+42.66 TO STA. 15+53.00 = TRANSITION FROM 4.00' TO 0.00'
- 7** TOPSOIL SLOPE - LEFT
 STA. 11+90.00 TO STA. 12+91.46 = 2.5:1
 STA. 12+91.46 TO STA. 13+11.46 = TRANSITION FROM 2.5:1 TO 2:1
 STA. 13+11.46 TO STA. 14+01.27 = 2:1
 STA. 14+01.27 TO STA. 14+21.27 = TRANSITION FROM 2:1 TO 2.5:1
 STA. 14+21.27 TO STA. 15+53.00 92 = 2.5:1
- 8** TOPSOIL SLOPE - RIGHT
 STA. 11+90.00 TO STA. 13+26.73 = 2.5:1
 STA. 13+26.73 TO STA. 13+46.73 = TRANSITION FROM 2.5:1 TO 2:1
 STA. 13+46.73 TO STA. 14+36.54 = 2:1
 STA. 14+36.54 TO STA. 14+56.54 = TRANSITION FROM 2:1 TO 2.5:1
 STA. 14+56.54 TO STA. 15+53.00 = 2.5:1
- 9** LANE SLOPE - LEFT
 STA. 11+90.00 TO STA. 12+50.00 = TRANSITION FROM -4.53% TO -2.00%
 STA. 12+50.00 TO STA. 14+88.00 = -2.00%
 STA. 14+88.00 TO STA. 15+53.00 = TRANSITION FROM -2.00% TO -4.63%
- 10** LANE SLOPE - RIGHT
 STA. 11+90.00 TO STA. 12+50.00 = TRANSITION FROM -1.26% TO -2.00%
 STA. 12+50.00 TO STA. 15+51.00 = -2.00%
 STA. 15+51.00 TO STA. 15+53.00 = TRANSITION FROM -2.00% TO -1.95%
- 11** SHOULDER SLOPE - LEFT
 STA. 11+90.00 TO STA. 13+08.24 = -4.00%
 STA. 13+08.24 TO STA. 13+26.24 = TRANSITION FROM -4.00% TO -2.00%
 STA. 13+26.24 TO STA. 13+99.95 = -2.00%
 STA. 13+99.95 TO STA. 14+17.95 = TRANSITION FROM -2.00% TO -4.00%
 STA. 14+17.95 TO STA. 15+53.00 = -4.00%
- 12** SHOULDER SLOPE - RIGHT
 STA. 11+90.00 TO STA. 13+30.05 = -4.00%
 STA. 13+30.05 TO STA. 13+48.05 = TRANSITION FROM -4.00% TO -2.00%
 STA. 13+48.05 TO STA. 14+21.76 = -2.00%
 STA. 14+21.76 TO STA. 14+39.76 = TRANSITION FROM -2.00% TO -4.00%
 STA. 14+39.76 TO STA. 15+53.00 = -4.00%



NOTES:

- SEE PLAN SHEETS FOR R.O.W. AND EASEMENT LOCATIONS.
- SEE GRADING PLANS FOR ADDITIONAL GRADING INFORMATION.
- SEE CROSS SECTIONS FOR SLOPE VARIATIONS.

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EVANS MILL ROAD		TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROPOSED TYPICAL SECTIONS		184	17-16118-00-BR	PEORIA	42	7
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.
						ILLINOIS FED. AID PROJECT

EARTHWORK SUMMARY							
LOCATION		20200100	20300100	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	20400800
		EARTH EXCAVATION	CHANNEL EXCAVATION				FURNISHED EXCAVATION
BEGIN STATION	END STATION	CU YD		CU YD	CU YD	CU YD	CU YD
EVANS MILL ROAD							
11+80.00	13+54.77	148		111	271	-160	160
13+93.23	15+63.00	210		158	244	-86	86
CREEK							
100+14.72	101+39.66		644		33	-33	33
TOTAL		358	644	269	548	-279	279

GUARDRAIL SCHEDULE						
LOCATION		63000001	63100167	72501000	78200005	Z0001002
		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL
BEGIN STATION	END STATION	FOOT	EACH	EACH	EACH	TON
EVANS MILL						
11+64.08	13+38.82	100	2	2	8	51
14+09.18	15+83.92	100	2	2	8	54
TOTAL		200	4	4	16	105

REMOVAL SCHEDULE				
LOCATION		40600982	44000100	X6650202
		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	WOVEN WIRE FENCE REMOVAL
BEGIN STATION	END STATION	SQ YD	SQ YD	FOOT
EVANS MILL				
11+64.08	13+38.82	19	297	
14+09.18	15+83.92	22	324	60
TOTAL		41	621	60

TOPSOIL AND SEEDING SCHEDULE						
LOCATION		21101615	25100635	28000250	28000400	XX006343
		TOPSOIL FURNISH AND PLACE, 4"	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	SEEDING (COMPLETE)
BEGIN STATION	END STATION	SQ YD	SQ YD	POUND	FOOT	SQ YD
EVANS MILL						
11+64.08	13+38.82	1,191	1,191	25	446	1,191
14+09.18	15+83.92	1,162	1,162	24	14	1,162
TOTAL		2,353	2,353	49	460	2,353

HMA PAVEMENT AND SHOULDER SCHEDULE							
LOCATION		31100100	40600275	40600295	40603080	40604050	48100500
		SUBBASE GRANULAR MATERIAL, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	AGGREGATE SHOULDERS, TYPE A 6"
BEGIN STATION	END STATION	TON	POUND	POUND	TON	TON	SQ YD
EVANS MILL							
11+64.08	13+38.82	239	789	87	79	41	138
14+09.18	15+83.92	238	783	88	78	41	135
TOTAL		477	1,572	175	157	82	273

TEMPORARY DITCH CHECK SCHEDULE		
LOCATION		28000305
		TEMPORARY DITCH CHECKS
STATION	OFFSET	FOOT
EVANS MILL		
13+91.89	46.96' LT	7
14+13.76	48.47' LT	7
14+37.10	45.12' LT	7
14+43.57	42.46' LT	7
14+50.15	39.75' LT	7
14+56.66	37.07' LT	7
14+63.03	34.45' LT	7
14+69.66	31.72' LT	7
14+76.18	29.04' LT	7
14+82.69	26.36' LT	7
14+89.19	23.69' LT	7
14+97.87	22.30' LT	7
15+24.45	19.83' LT	7
TOTAL		91

TREE REMOVAL SCHEDULE			
LOCATION		20100110	20100210
		TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	OFFSET	UNIT	UNIT
EVANS MILL			
13+04.19	25.27' RT		16
13+53.96	28.86' RT	8	
13+76.00	32.21' RT	12	
13+79.16	29.74' RT		18
14+45.09	15.54' RT	12	
14+56.43	19.42' RT		36
14+67.80	21.34' RT	12	
14+83.47	22.36' RT	12	
15+06.64	28.96' RT		22
15+24.62	16.20' RT	8	
15+25.40	20.29' RT	8	
15+33.21	19.87' RT	12	
15+37.85	25.46' RT	12	
TOTAL		96	92

RIPRAP SCHEDULE		
LOCATION		28100105
		STONE RIPRAP, CLASS A3
BEGIN STATION	END STATION	SQ YD
EVANS MILL		
11+64.08	13+38.82	
14+09.18	15+83.92	124
TOTAL		124

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

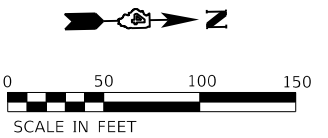
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PLOT DATE = 9/15/2020	CHECKED - MGD	REVISED -
	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EVANS MILL ROAD SCHEDULE OF QUANTITIES	
SCALE: NTS	SHEET OF SHEETS STA. TO STA.

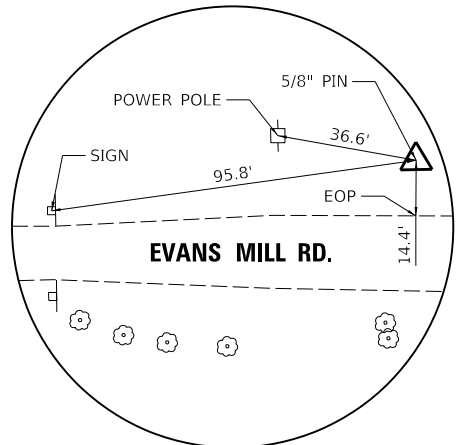
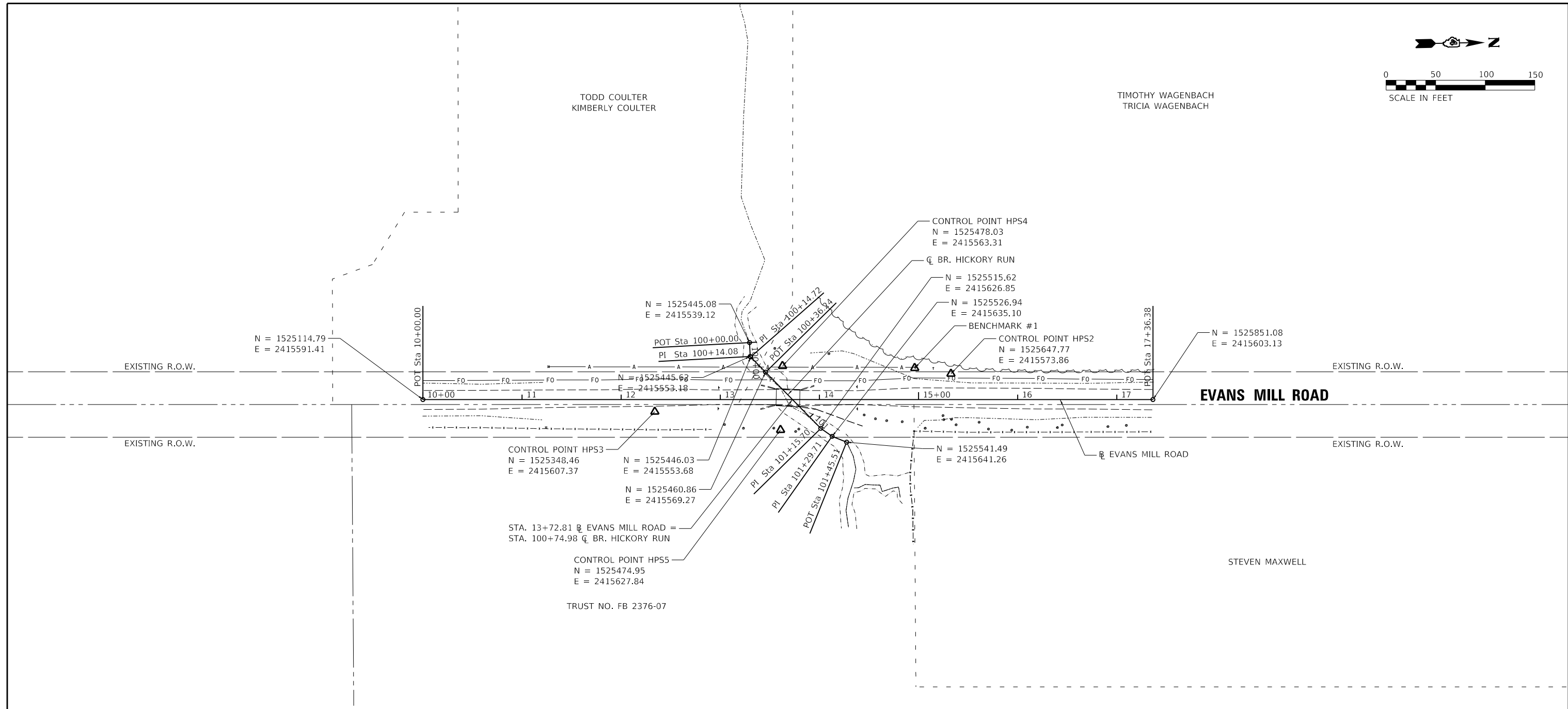
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184	17-16118-00-BR	PEORIA	42	8
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



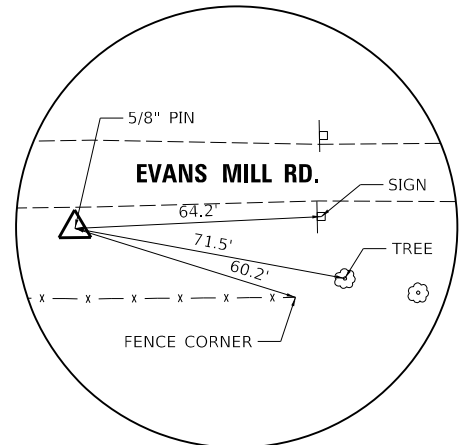
TODD COULTER
KIMBERLY COULTER

TIMOTHY WAGENBACH
TRICIA WAGENBACH

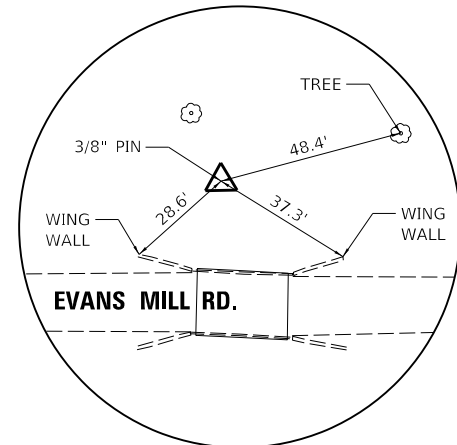
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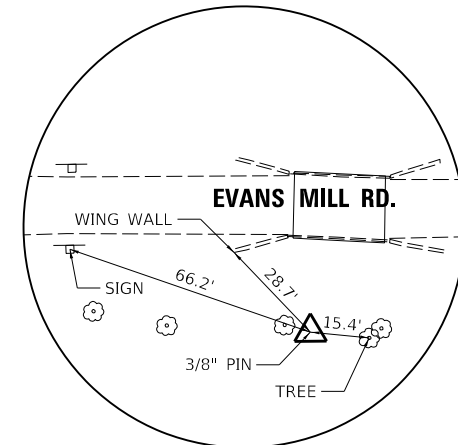
RECOVERY TIE – STA. 15 + 32.63
CONTROL POINT HPS2 - 5/8" PIN



RECOVERY TIE – STA. 12 + 33.89
CONTROL POINT HPS3 - 5/8" PIN



RECOVERY TIE – STA. 13 + 62.74
CONTROL POINT HPS4 - 3/8" PIN



RECOVERY TIE – STA. 13 + 62.74
CONTROL POINT HPS5 - 3/8" PIN

BENCHMARK #1 STA. 14+96.11, 31.83' LT., ELEV. = 676.98
COTTON SPINDLE IN EAST FACE OF POWER POLE ±100' NORTH OF BRIDGE.

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

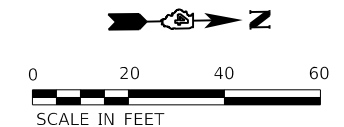
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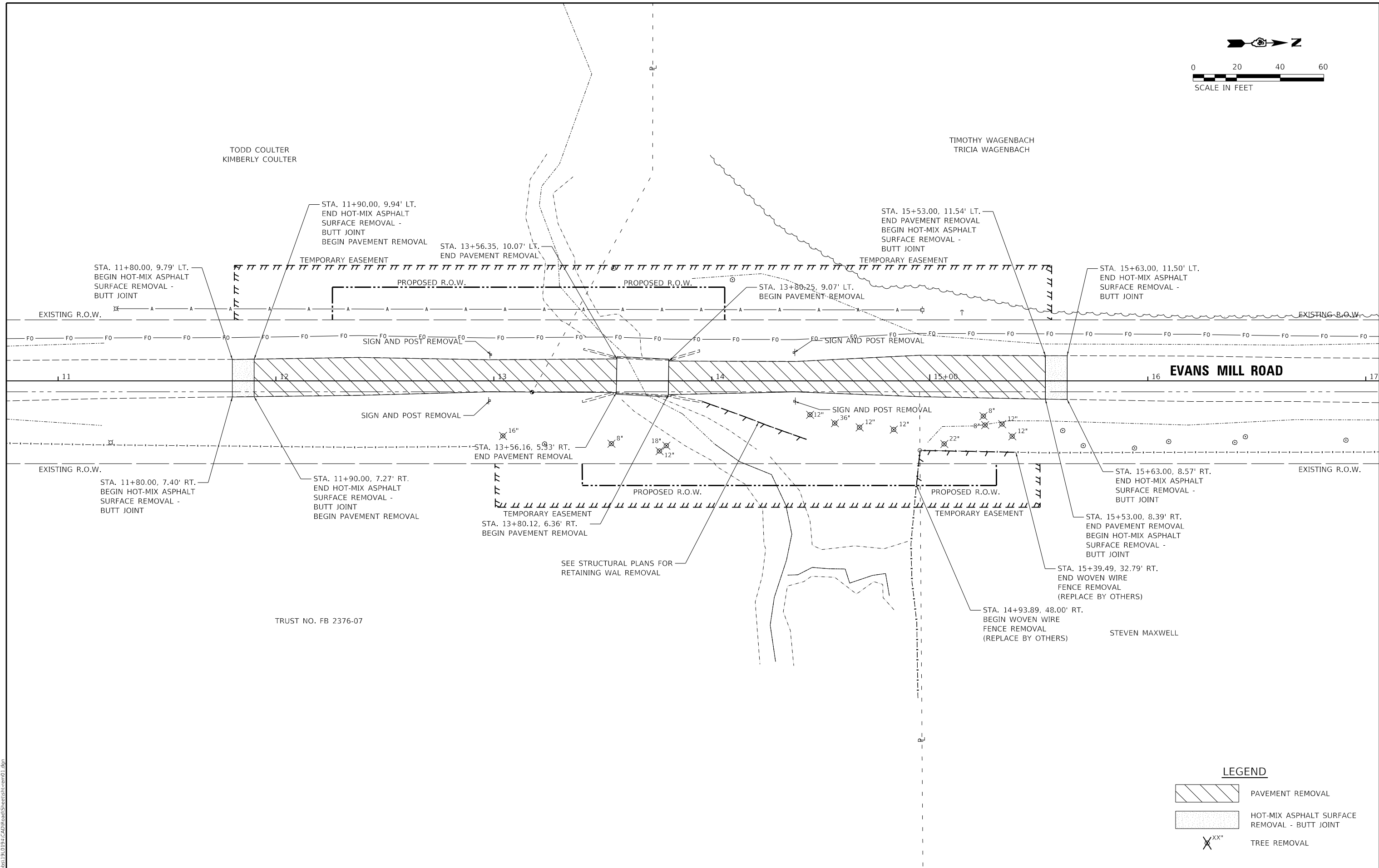
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EVANS MILL ROAD ALIGNMENTS, BENCHMARKS, AND TIES			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- TREE REMOVAL

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EVANS MILL ROAD
REMOVAL PLAN

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				

ILLINOIS FED. AID PROJECT

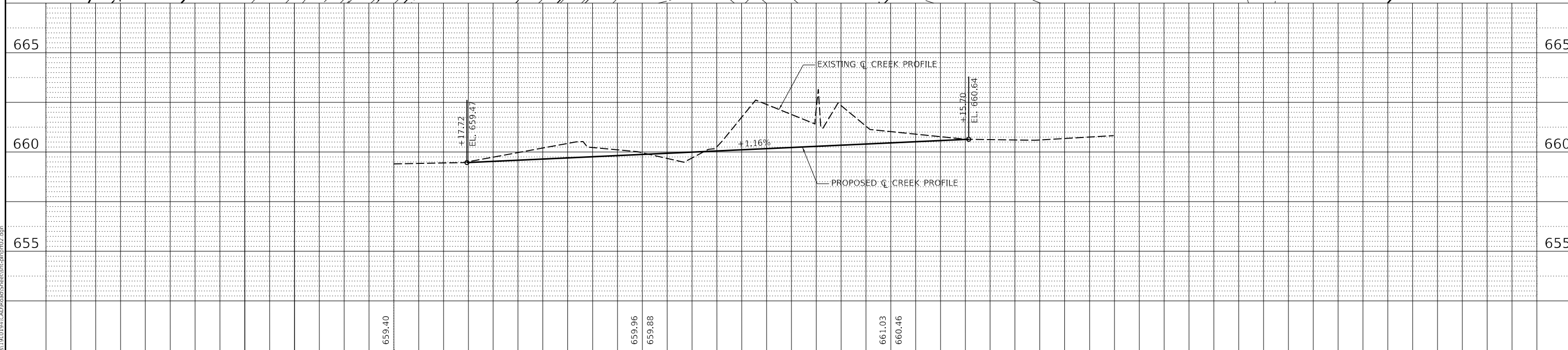
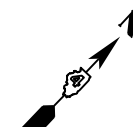
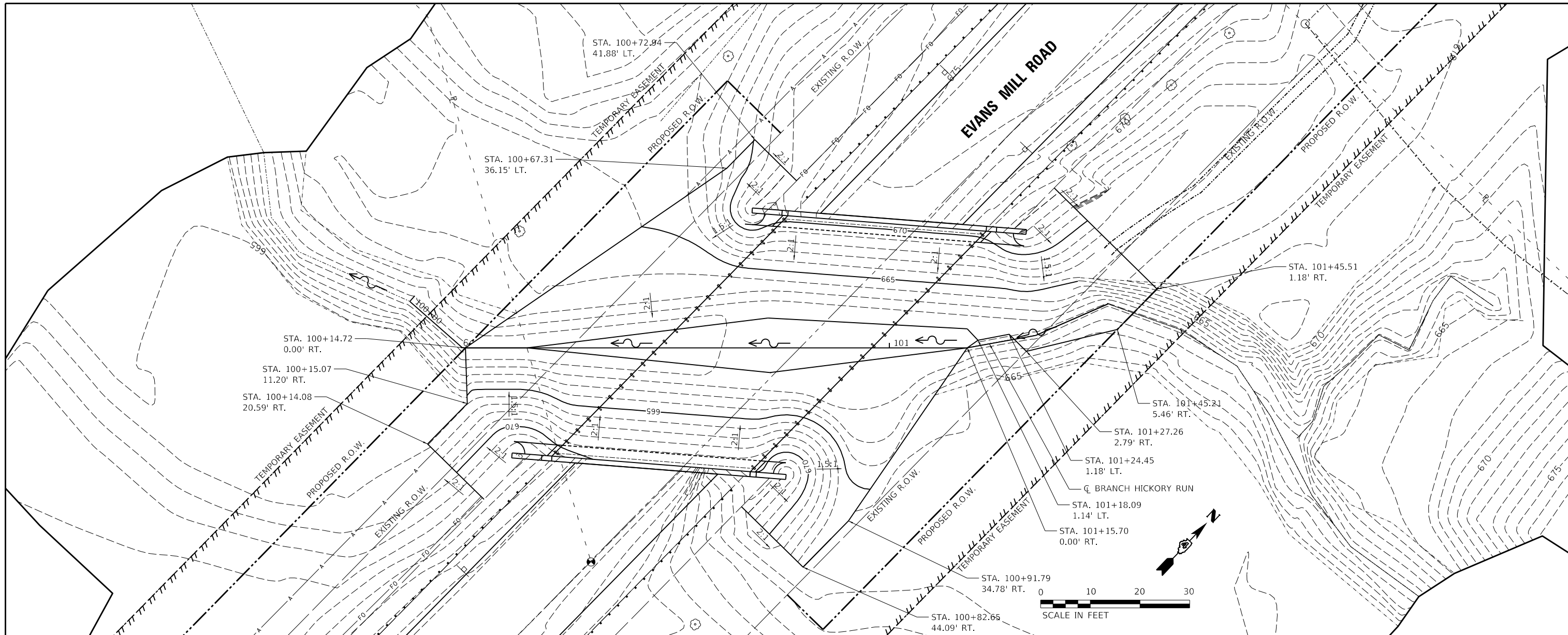
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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	CADD FILE NAME	
	NO.	

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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATION CHKD	
	NO.	

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DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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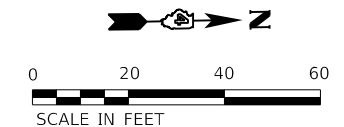
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

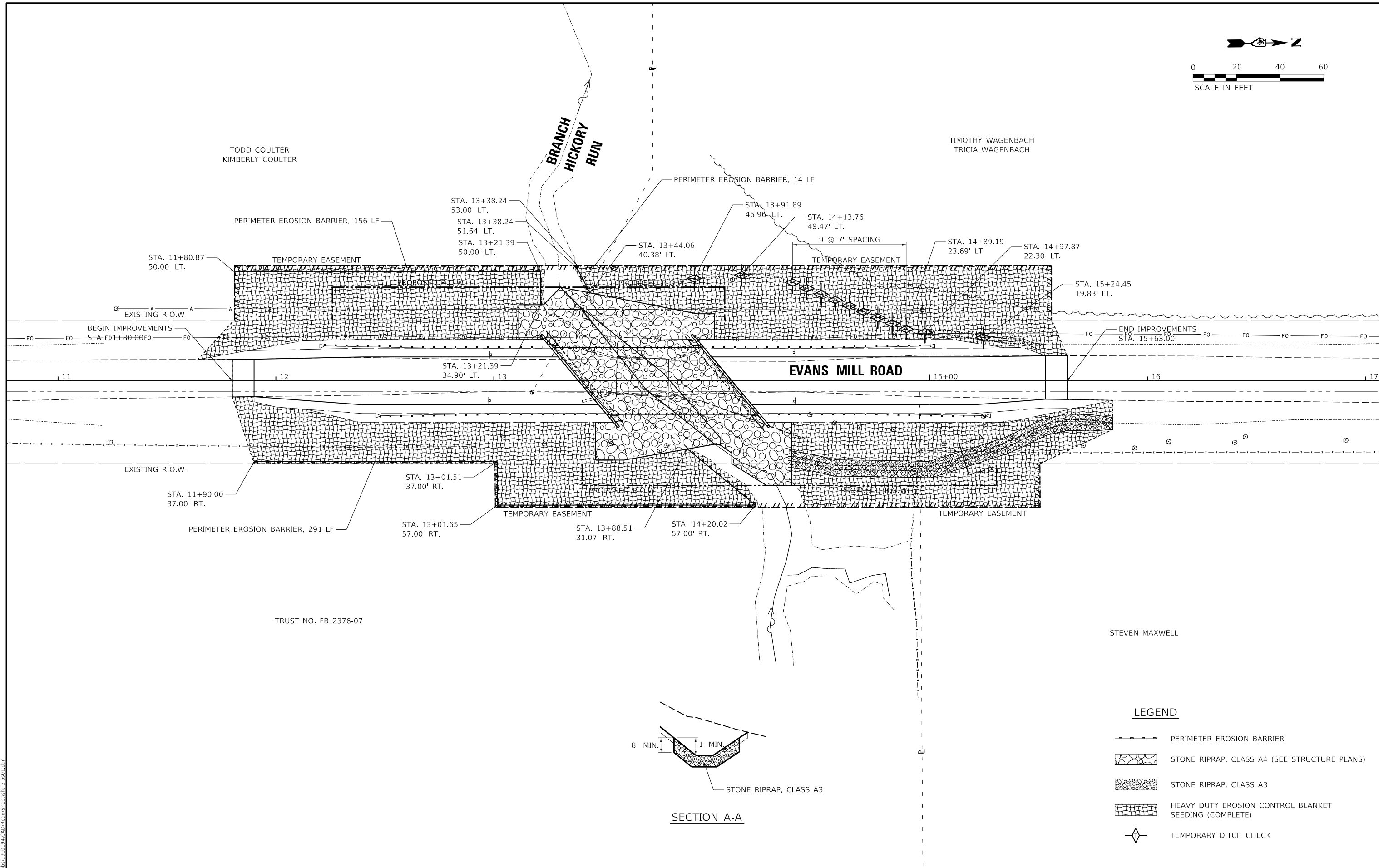
EVANS MILL ROAD
CREEK PLAN AND PROFILE

SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

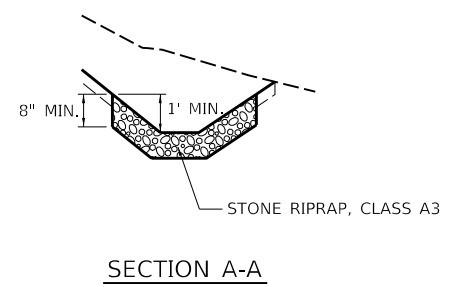


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LEGEND

	PERIMETER EROSION BARRIER
	STONE RIPRAP, CLASS A4 (SEE STRUCTURE PLANS)
	STONE RIPRAP, CLASS A3
	HEAVY DUTY EROSION CONTROL BLANKET SEEDING (COMPLETE)
	TEMPORARY DITCH CHECK



LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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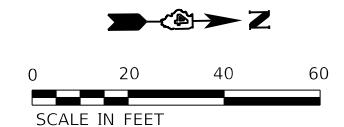
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	DATE - 9/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EVANS MILL ROAD
EROSION CONTROL PLAN

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

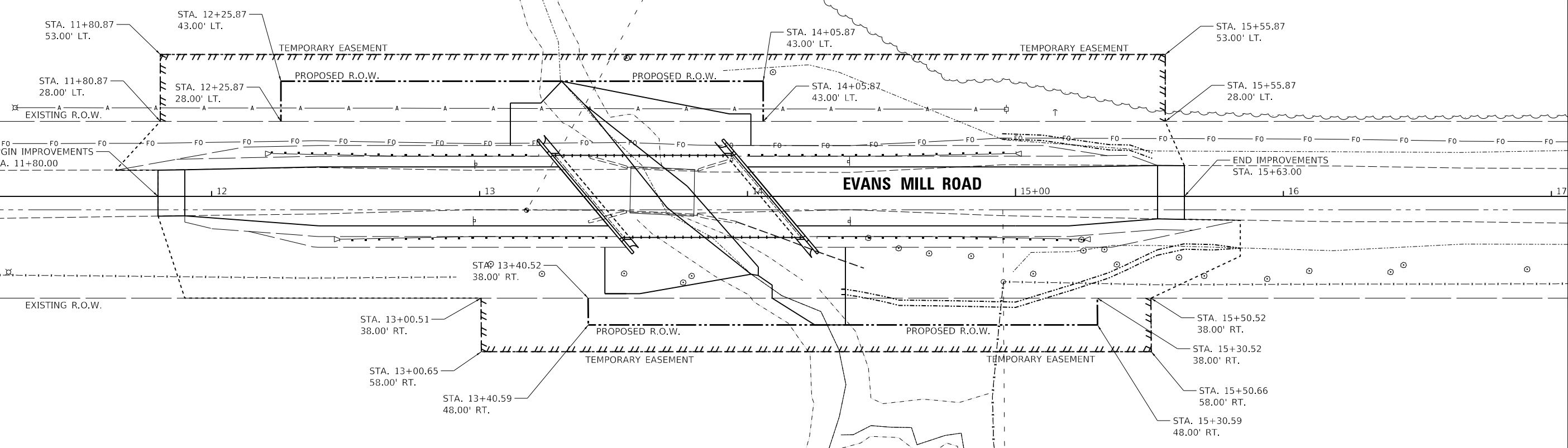
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184	17-16118-00-BR	PEORIA	42	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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KIMBERLY COULTER

TIMOTHY WAGENBACH
TRICIA WAGENBACH

**BRANCH
HICKORY
RUN**



EXISTING R.O.W.

BEGIN IMPROVEMENTS
STA. 11+80.00

EVANS MILL ROAD

END IMPROVEMENTS
STA. 15+63.00

TRUST NO. FB 2376-07

STEVEN MAXWELL

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LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

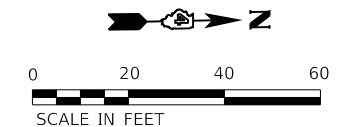
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

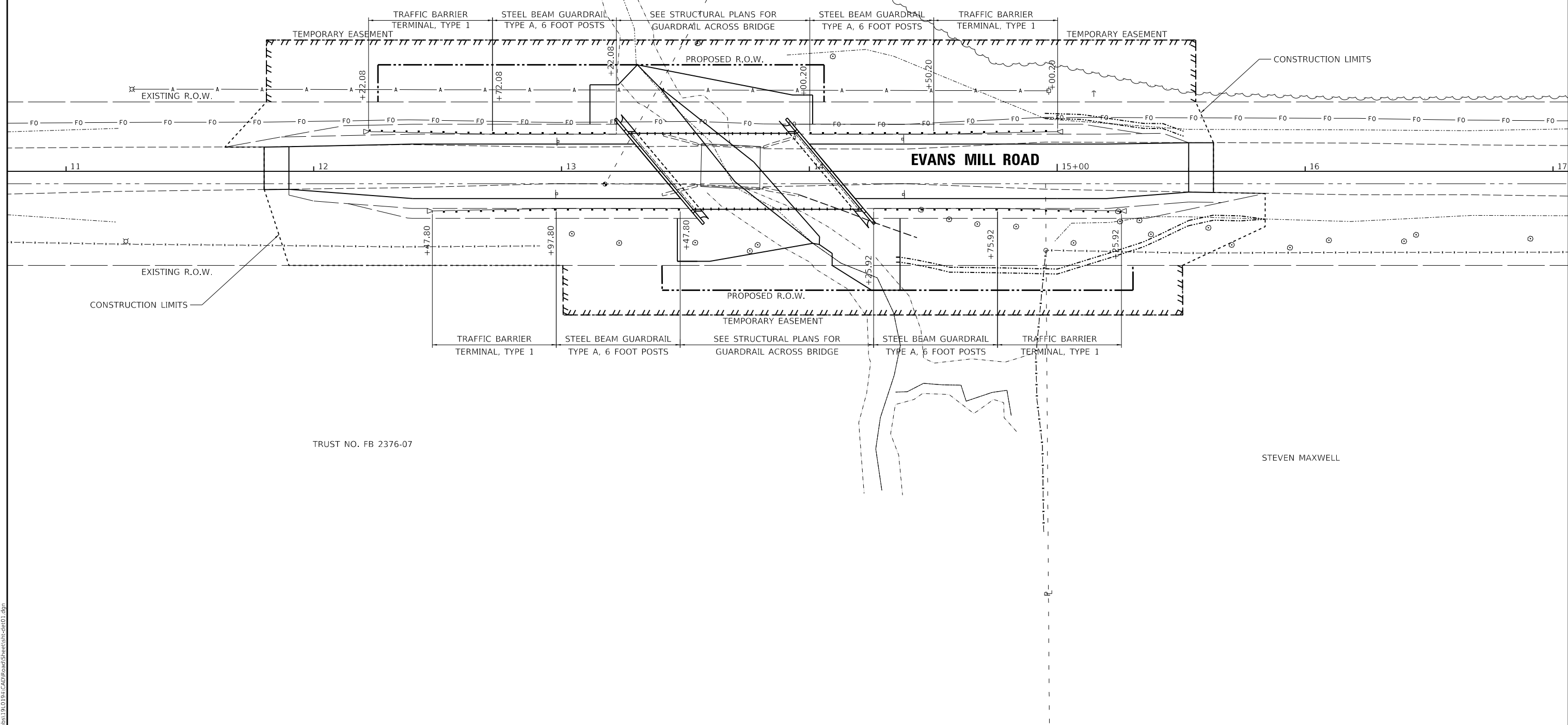
EVANS MILL ROAD	
RIGHT OF WAY PLAN	
SCALE: 1"=20'	SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	14
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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KIMBERLY COULTER

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LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020
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PLOT DATE = 9/15/2020	CHECKED - MGD	REVISED -
	DATE - 9/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EVANS MILL ROAD GUARDRAIL DETAIL		TR	SECTION	COUNTY	TOTAL	SHEET
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SCALE: 1"=20'	SHEET	OF	SHEETS	STA.	TO	STA.

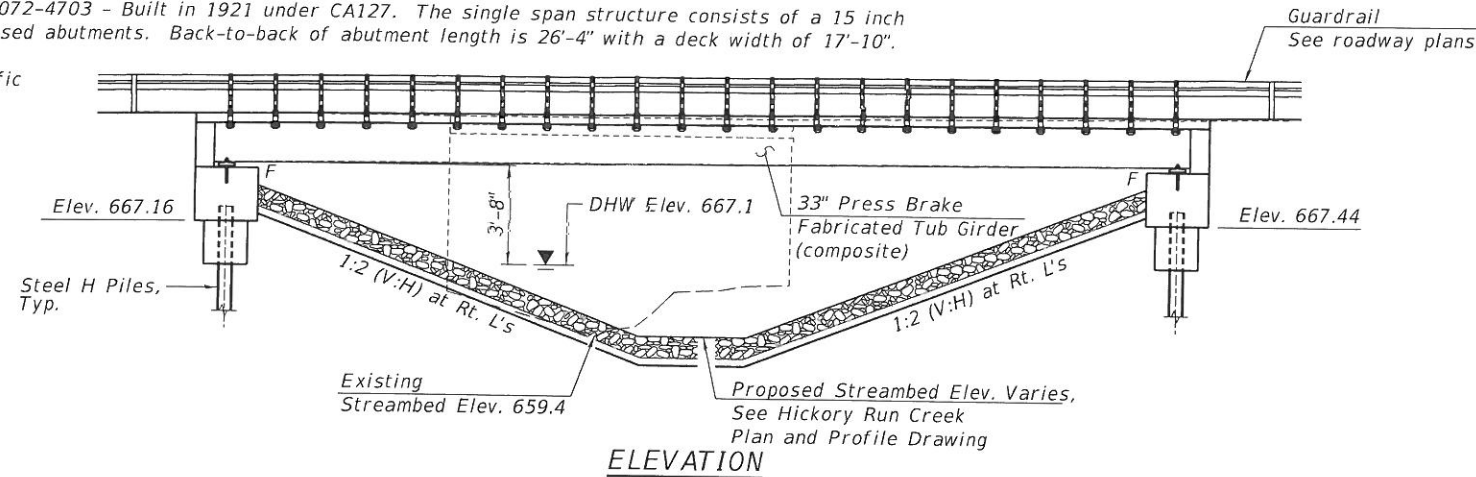
184	17-16118-00-BR	PEORIA	42	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

Bench Mark: Cotton spindle in east face of power pole, ±100' north of bridge. Elevation 676.98

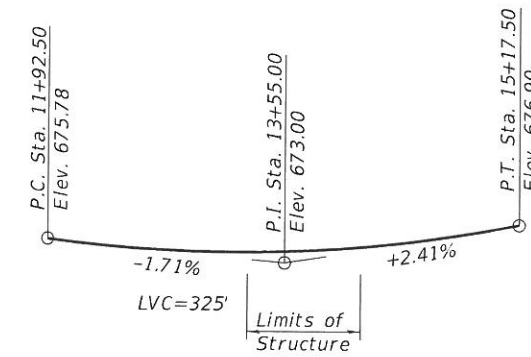
Existing Structure: S.N. 072-4703 - Built in 1921 under CA127. The single span structure consists of a 15 inch cast-in-place slab on closed abutments. Back-to-back of abutment length is 26'-4" with a deck width of 17'-10".

Structure closed to traffic during construction.

No Salvage



ELEVATION



PROFILE GRADE
(along centerline roadway)

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.077
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.132
Soil Site Class = C

DESIGN STRESSES
FIELD UNITS

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

PREFABRICATED UNITS

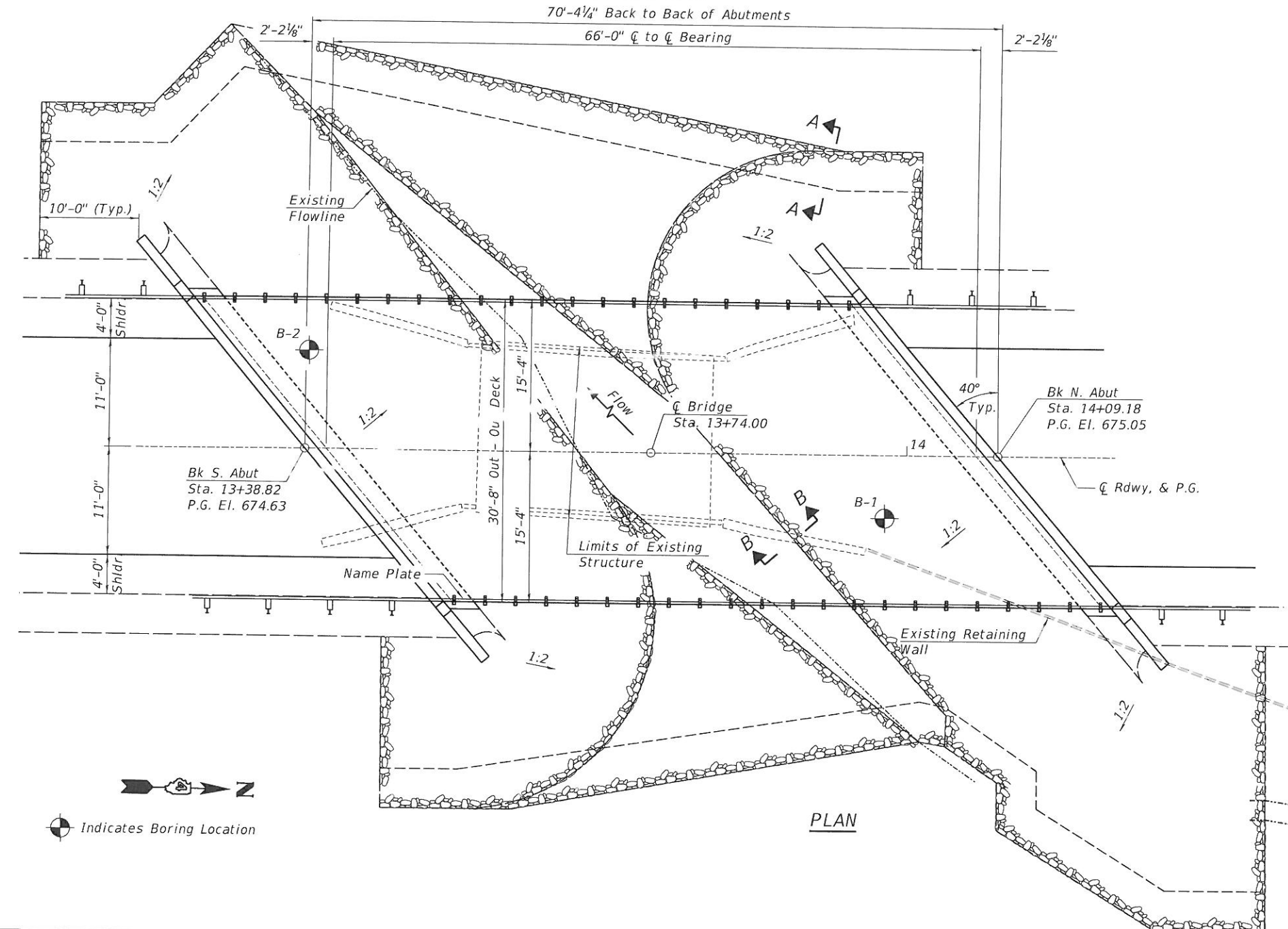
$f'_c = 6,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (A572 Grade 65) (Primary Members)
 $f_y = 50,000$ psi (M270 Grade 50) (Secondary Members)

WATERWAY INFORMATION

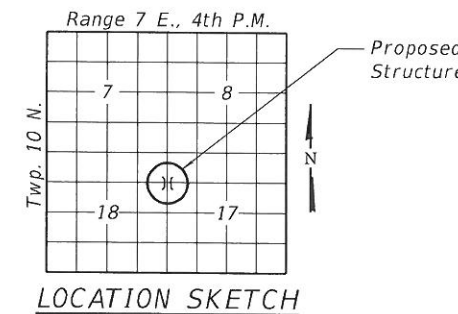
Drainage Area = 0.76 Sq. Miles		Existing Low Grade Elev. 674.46 @ Sta. 13+55.05 Proposed Low Grade Elev. 674.62 @ Sta. 13+27.55							
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	10	465	118	147	666.6	0.4	0.3	667.0	666.9
Design	20	595	128	165	667.1	0.6	0.5	667.7	667.6
50	50	774	138	184	667.6	0.9	0.8	668.5	668.4
Base	100	920	147	199	668.0	1.3	1.0	669.3	669.0

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elev. (ft.)		Item
	N. Abut.	S. Abut.	
Q100	667.44	667.16	113
Q200	667.44	667.16	
Design	667.44	667.16	
Check	667.44	667.16	8



PLAN



LOCATION SKETCH

I certify that to the best of knowledge, information and belief, this substructure design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Specifications.



Signature: Michael N. Mendenhall
Date: 9/16/2020
I.C. EXP. DATE: 11/2020

GENERAL PLAN
EVANS MILL ROAD OVER BR. HICKORY RUN
SECTION 17-16118-00-BR
PEORIA COUNTY
STATION 13+74.00
STRUCTURE NO. 072-4715

Note: See Sheet 2 of 15 for Section A-A and B-B.

MODEL: GPE Sheet
FILE NAME: I:\19jobs\191019\CAD\Struct\Sheet\072-4715-1910194-001-GPE.dgn
9/15/2020 12:59:18 PM

	USER NAME = Johns0944	DESIGNED - C. PUZEY	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO 072-4715 SHEET 1 OF 15 SHEETS	T.R. RTE. 184	SECTION 17-16118-00-BR	COUNTY PEORIA	TOTAL SHEETS 42	SHEET NO. 16
	PLOT SCALE = 13:4.0000 ** / in.	DRAWN - R. JOHNSON	REVISIONS -			19L0914	CONTRACT NO.			
	PLOT DATE = 9/15/2020	CHECKED - CGP, MNM	REVISIONS -			ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Fasteners shall be ASTM F3125, Grade 325, Type 1, hot-dipped galvanized bolts.
 $\frac{7}{8}$ " \emptyset , unless otherwise noted.

Calculated weight of structural steel = _____ lbs. (M270 Grade 50)*
 _____ lbs. (A572 Grade 65)*

All structural steel shall be AASHTO M 270 Grade 50 except primary members which shall be ASTM A572 Grade 65.

No Field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit the ground conditions in the field as directed by the Engineer.

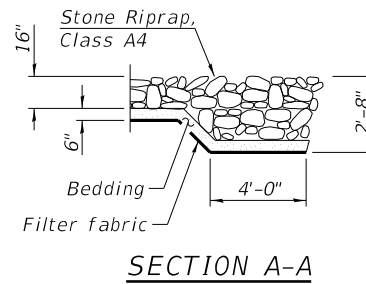
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Plans are for a Press-Brake-Formed Steel Tub Girder (PBFSTG) superstructure. The provided details and layout are for the general design and layout and may be modified as required for the actual prefabricated bridge system that is used. All adjustments shall be submitted to the Engineer for review & approval and will not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

* Information to be provided by PBFSTG manufacturer, see Special Provisions.

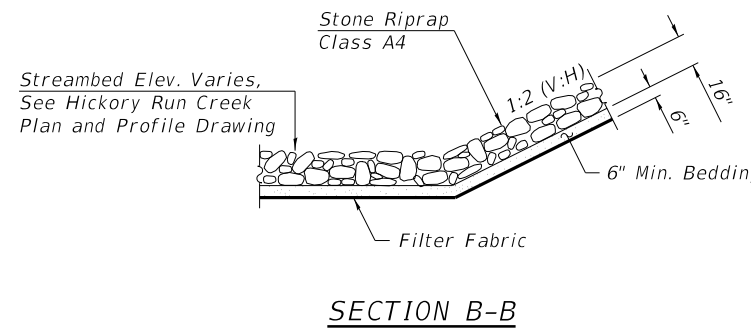
INDEX OF SHEETS

1. General Plan
2. General Data
3. Top of Slab Elevations
4. Superstructure
5. Superstructure Details
6. Guardrail Attached to Structure (Sheet 1 of 3)
7. Guardrail Attached to Structure (Sheet 2 of 3)
8. Guardrail Attached to Structure (Sheet 3 of 3)
9. Structural Steel
10. Structural Steel Details
11. South Abutment
12. North Abutment
13. HP Pile Details
14. Bar Splicer Detail
15. Soil Borings



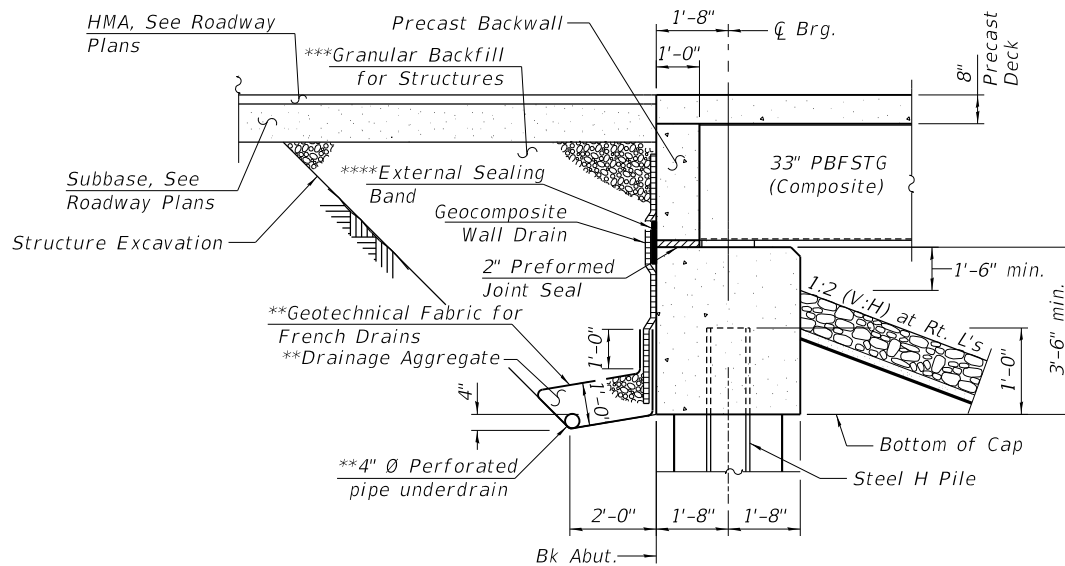
HICKORY RUN
 BUILT 202_ BY
 PEORIA COUNTY
 SEC. 17-16118-00-BR
 STATION 13+74.00
 STR. NO. 072-4715, LOADING HL-93

NAME PLATE
 See Std. 515001



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		663	663
Filter Fabric	Sq. Yd.		663	663
Removal of Existing Structures	Each			1
Preformed Joint Seal 2"	Foot		80	80
Structure Excavation	Cu. Yd.		315	315
Concrete Structures	Cu. Yd.		46.6	46.6
Bridge Deck Grooving	Sq. Yd.	219		219
Concrete Encasement	Cu. Yd.		4.8	4.8
Protective Coat	Sq. Yd.	240		240
Reinforcement Bars, Epoxy Coated	Pound		6310	6310
Bar Splicers	Each		64	64
Furnishing Steel Piles HP10x42	Foot		180	180
Driving Piles	Foot		180	180
Test Pile Steel HP 10x42	Each		2	2
Pile Shoes	Each		14	14
Name Plates	Each		1	1
Anchor Bolts, 1"	Each	16		16
Granular Backfill for Structures	Cu. Yd.		149	149
Geocomposite Wall Drain	Sq. Yd.		73	73
Diamond Grinding (Bridge Section)	Sq. Yd.	16		16
Pipe Underdrains for Structures 4"	Foot		138	138
Steel Plate Beam Guardrail, Attached to Structures	Foot	156		156
Press-Brake-Formed Steel Tub Girder (PBFSTG) Sys.	Sq. Ft.	2158		2158
Ultra-High Performance Concrete (UHPC) Joints	Cu. Ft.	102		102



Note:
 All drainage system components shall extend 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

**Include in the cost of Pipe Underdrains for Structures. (See Special Provisions)

***Granular Backfill for Structures shall be placed and compacted according to Section 502.10 of the Standard Specifications.

****Include in the cost of Preformed Joint Seal 2".

SECTION THRU ABUTMENT
 (Dimensions are at Rt. L's)

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	CHECKED - CGP, MNM	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 STRUCTURE NO 072-4715**

SHEET 2 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	17
19L0914		CONTRACT NO.		

ILLINOIS FED. AID PROJECT

GIRDER 1

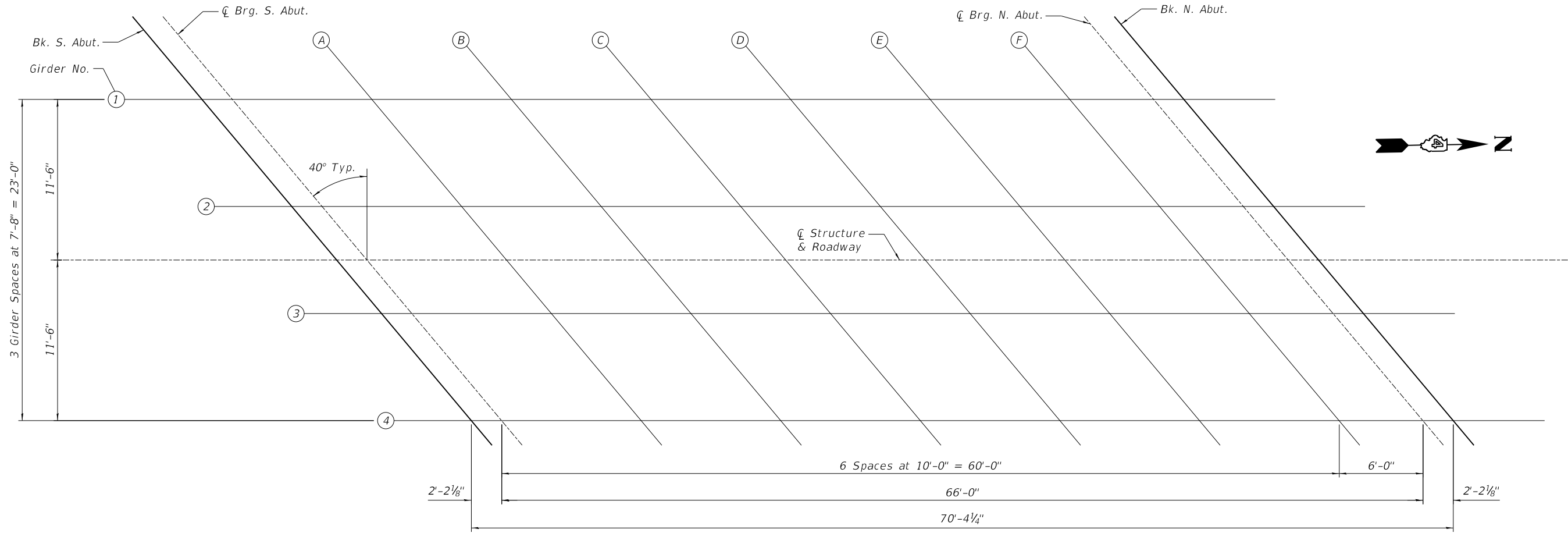
Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13+29.17	-11.50	674.40	
CL Brg. S. Abut.	13+31.35	-11.50	674.40	
A	13+41.35	-11.50	674.41	
B	13+51.35	-11.50	674.43	
C	13+61.35	-11.50	674.47	
D	13+71.35	-11.50	674.52	
E	13+81.35	-11.50	674.58	
F	13+91.35	-11.50	674.66	
CL Brg. N. Abut.	13+97.35	-11.50	674.71	
Bk. N. Abut.	13+99.53	-11.50	674.73	

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13+35.60	-3.83	674.55	
CL Brg. S. Abut.	13+37.78	-3.83	674.56	
A	13+47.78	-3.83	674.58	
B	13+57.78	-3.83	674.61	
C	13+67.78	-3.83	674.65	
D	13+77.78	-3.83	674.71	
E	13+87.78	-3.83	674.78	
F	13+97.78	-3.83	674.86	
CL Brg. N. Abut.	14+03.78	-3.83	674.92	
Bk. N. Abut.	14+05.96	-3.83	674.94	

Ç STRUCTURE

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13+38.82	0.00	674.63	
CL Brg. S. Abut.	13+41.00	0.00	674.64	
A	13+51.00	0.00	674.66	
B	13+61.00	0.00	674.70	
C	13+71.00	0.00	674.75	
D	13+81.00	0.00	674.81	
E	13+91.00	0.00	674.88	
F	14+01.00	0.00	674.97	
CL Brg. N. Abut.	14+07.00	0.00	675.03	
Bk. N. Abut.	14+09.18	0.00	675.05	



GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13+42.04	3.83	674.56	
CL Brg. S. Abut.	13+44.21	3.83	674.57	
A	13+54.21	3.83	674.60	
B	13+64.21	3.83	674.64	
C	13+74.21	3.83	674.69	
D	13+84.21	3.83	674.75	
E	13+94.21	3.83	674.83	
F	14+04.21	3.83	674.92	
CL Brg. N. Abut.	14+10.21	3.83	674.98	
Bk. N. Abut.	14+12.40	3.83	675.01	

PLAN

*Information to be provided by PBFSTG manufacturer, See Special Provisions.

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	*Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13+48.47	11.50	674.42	
CL Brg. S. Abut.	13+50.65	11.50	674.43	
A	13+60.65	11.50	674.47	
B	13+70.65	11.50	674.52	
C	13+80.65	11.50	674.58	
D	13+90.65	11.50	674.65	
E	14+00.65	11.50	674.74	
F	14+10.65	11.50	674.84	
CL Brg. N. Abut.	14+16.65	11.50	674.90	
Bk. N. Abut.	14+18.83	11.50	674.93	

MODEL: TOS Sheet
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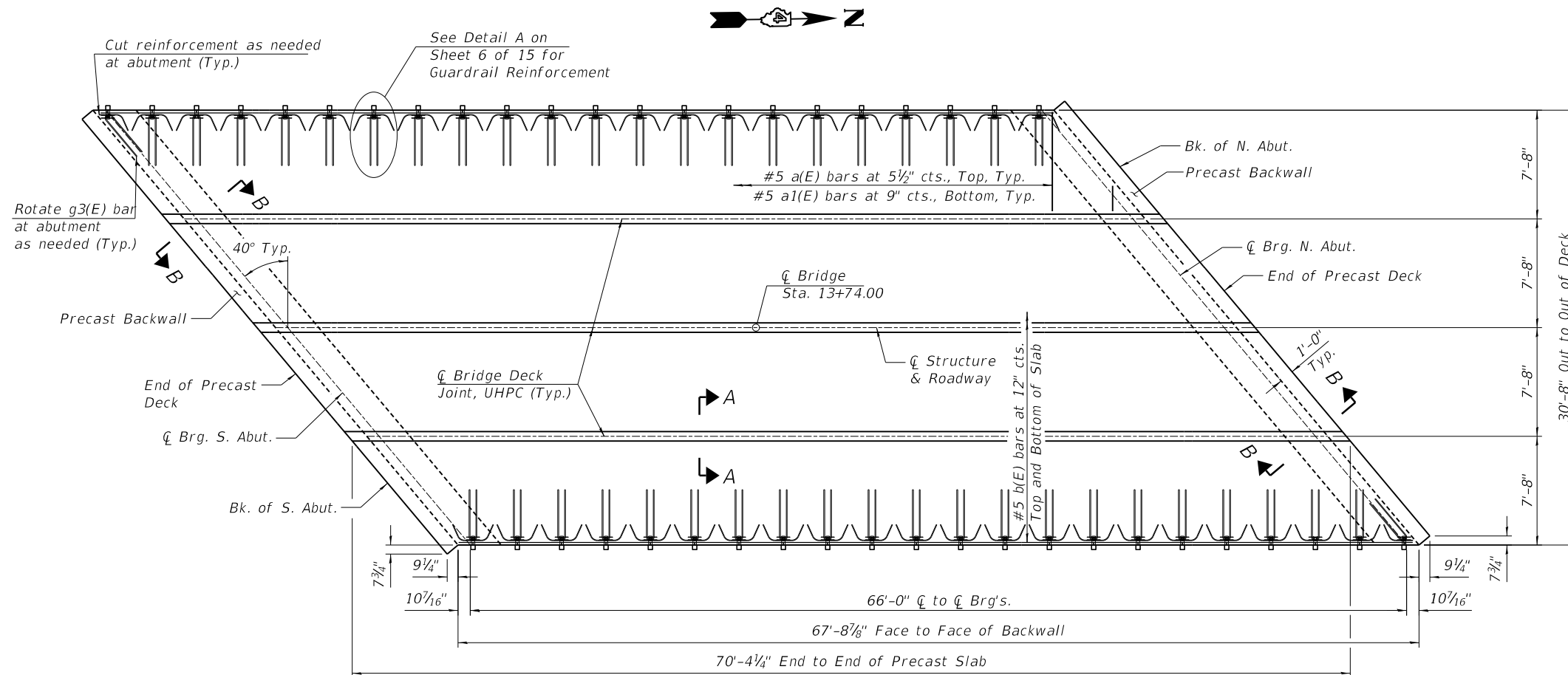
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PLOT DATE = 9/15/2020	CHECKED - CGP, MNM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO 072-4715**

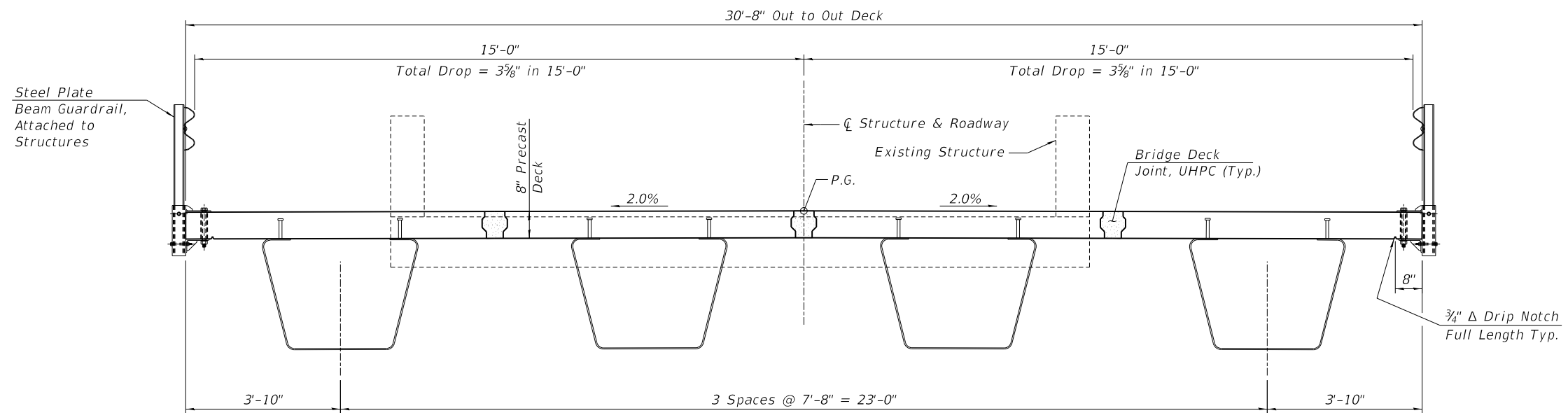
SHEET 3 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	18
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



PLAN

Notes:
See Sheet 5 of 15 for superstructure details, Bill of Material, Section A-A and Section B-B.



CROSS SECTION
(Looking Upstation)

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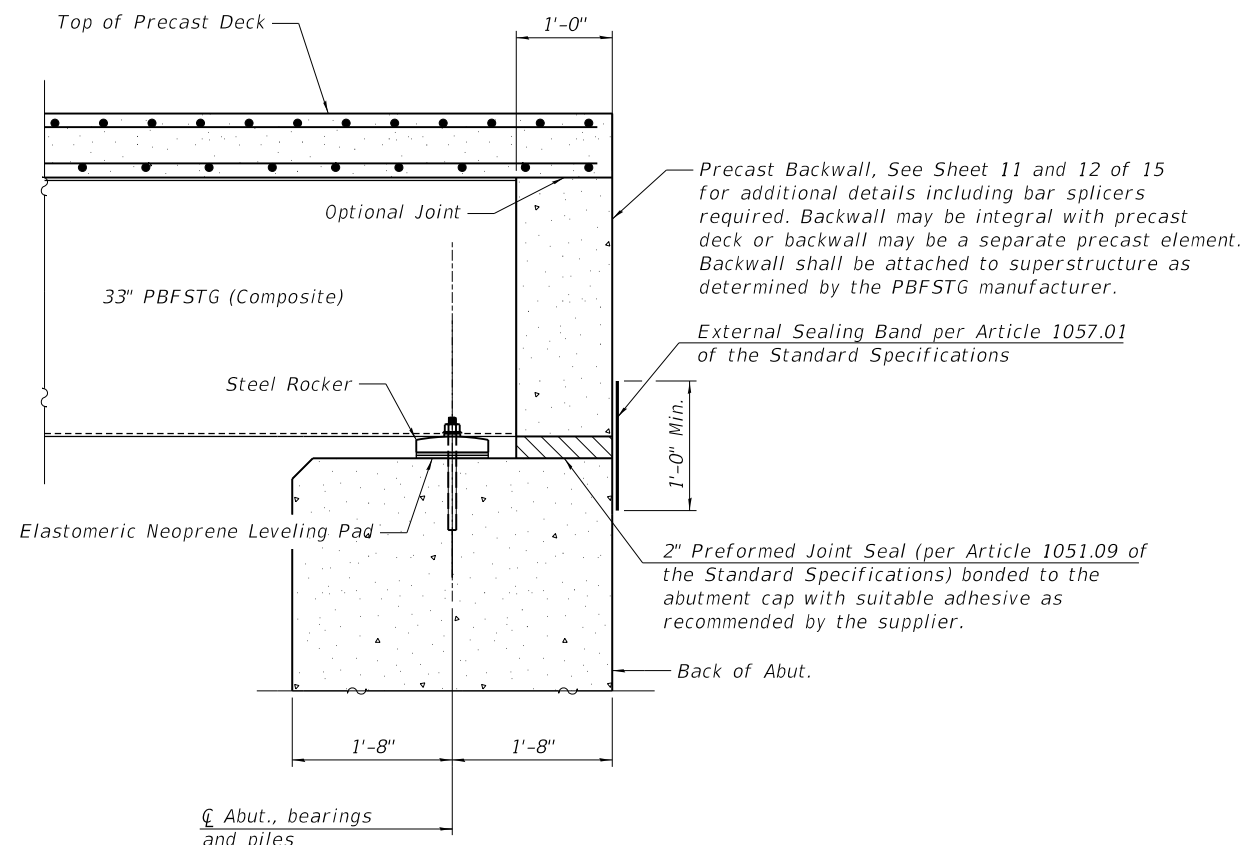
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO 072-4715

SHEET 4 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	19
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

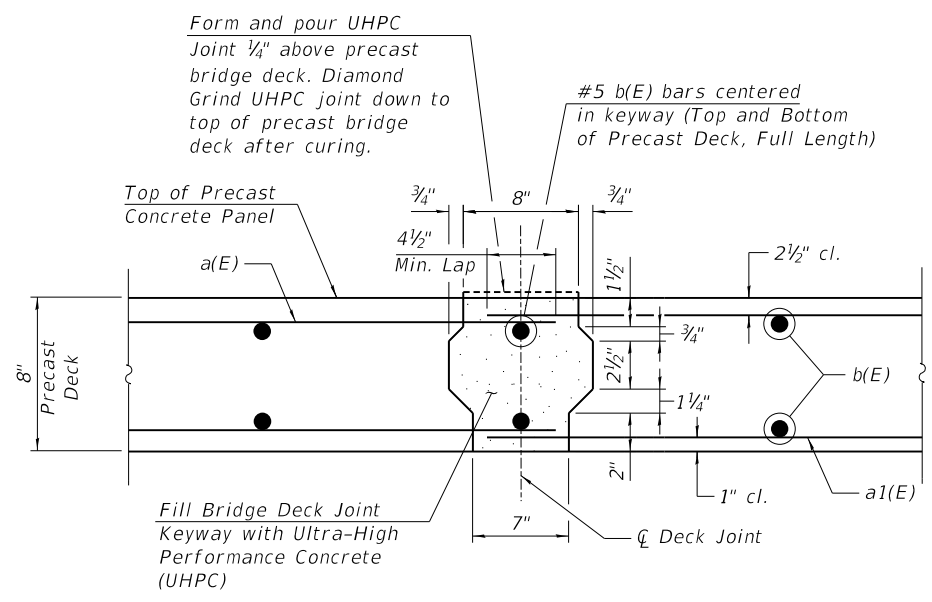
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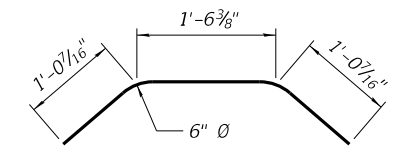
**PRECAST DECK
 REINFORCEMENT BAR LIST**
 (For Information only.)

Bar	No.	Size	Length	Shape
a(E)	-	#5	-	—
a1(E)	-	#5	-	—
b(E)	-	#5	-	—
g1(E)	88	#3	0'-10"	—
g2(E)	44	#4	3'-8"	⌒
g3(E)	44	#6	7'-6"	⌒

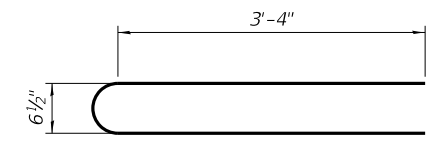
Notes:
 All Reinforcement bars in Precast Concrete Deck are included in PBFSTG System and shall be designed per PBFSTG manufacturer (except bars designated with "g" shall be detailed as shown and included in PBFSTG System.
 Bars shown in precast panels are minimum required.



SECTION A-A



BAR g2(E)



BAR g3(E)

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Deck Grooving	Sq. Yd.	219
Protective Coat	Sq. Yd.	240
Reinforcement Bars, Epoxy Coated	Pound	
Diamond Grinding (Bridge Section)	Sq. Yd.	16
Press-Brake-Formed Steel Tub Girder (PBFSTG) System	Sq. Ft.	2158
Ultra-High Performance Concrete (UHPC) Joints	Cu. Ft.	102



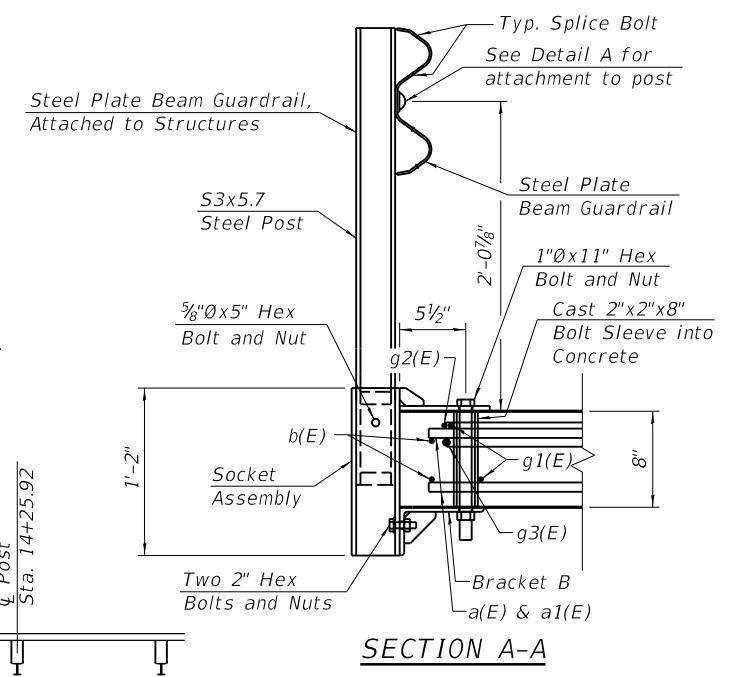
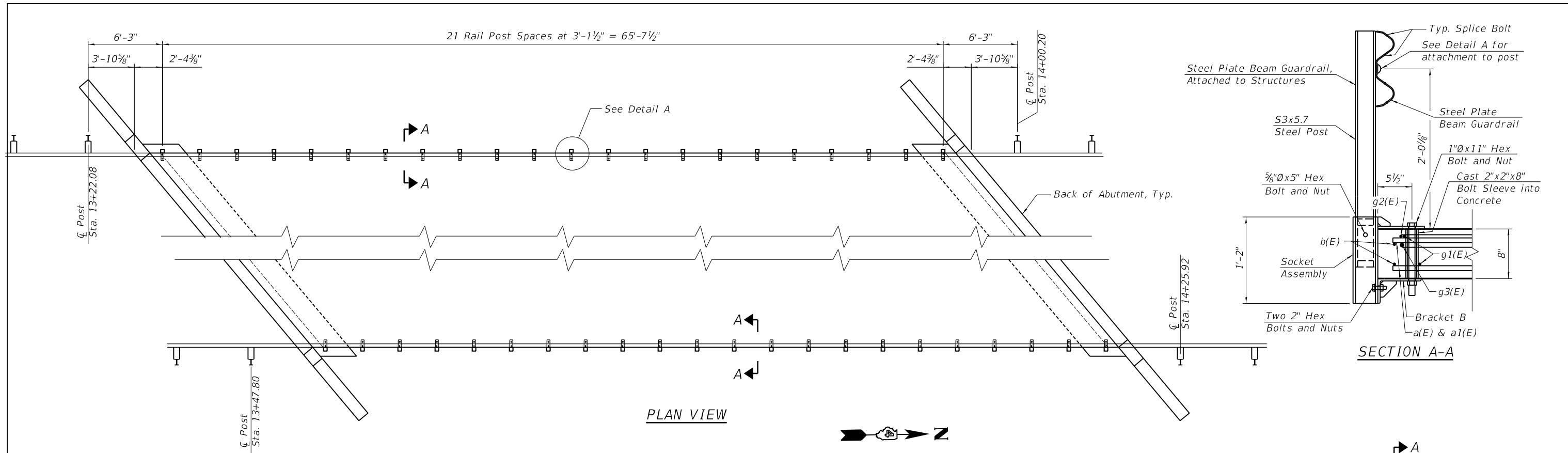
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
 STRUCTURE NO 072-4715**

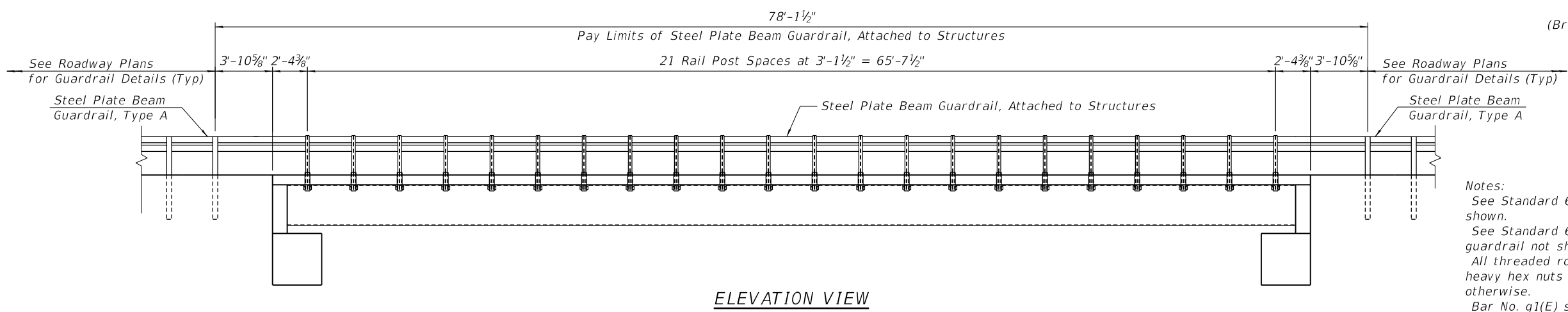
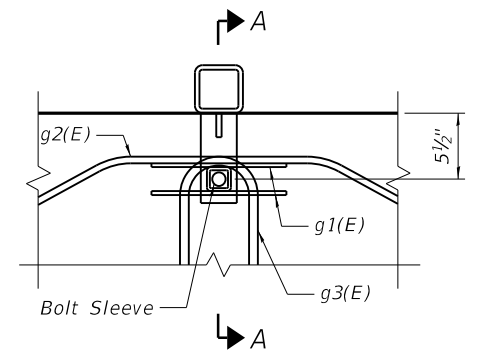
SHEET 5 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	20
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Item	Unit	Quantity
Steel Plate Beam Guardrail, Attached to Structures	Foot	156



Notes:

- See Standard 630001 for details of guardrail not shown.
- See Standard 630006 for details of non-blocked guardrail not shown.
- All threaded rods and bolts shall be installed with heavy hex nuts and standard washers unless noted otherwise.
- Bar No. g1(E) shall be tack welded to the bolt sleeve before Galvanization (See rebar list in Sheet 5 of 15 for bar details).
- All items required for assembly, cutting if required and installation of the railing brackets, post and railing shall be included in the bid item for Steel Plate Beam Guardrail, Attached to Structures.

MODEL: Rail Sheet
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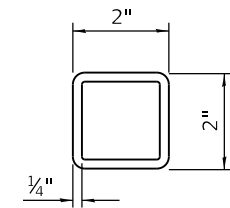
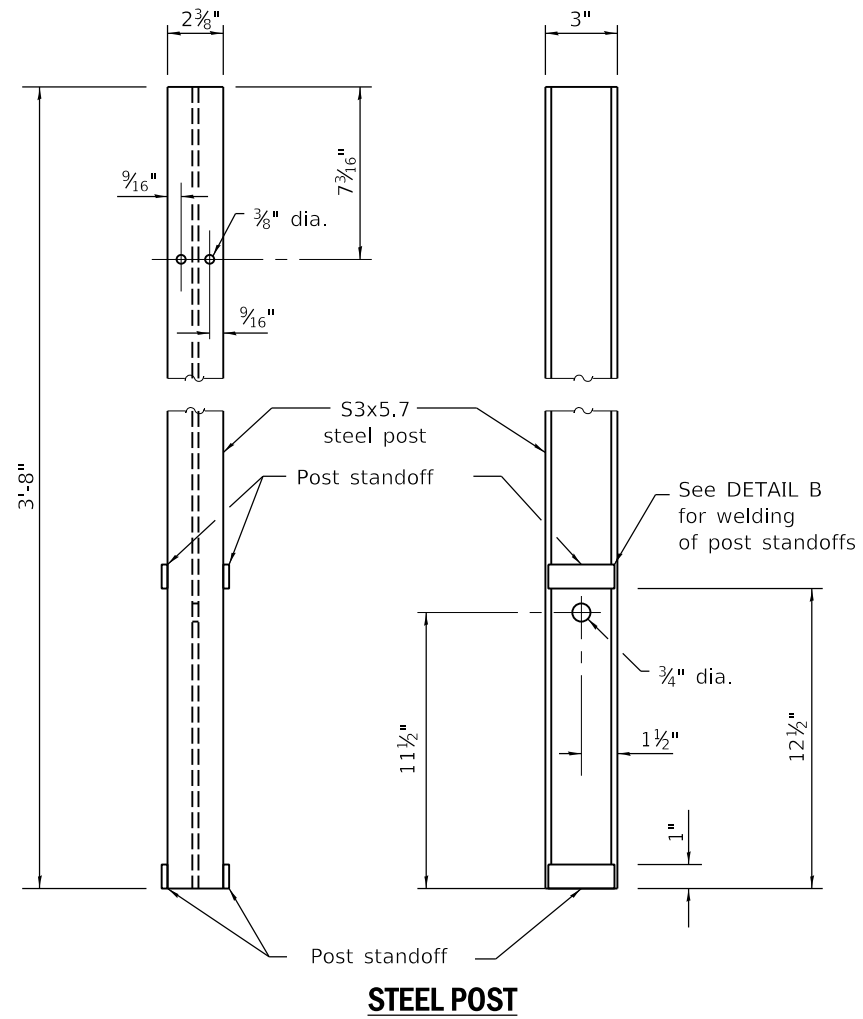
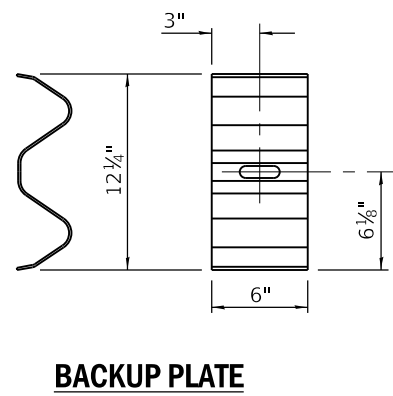
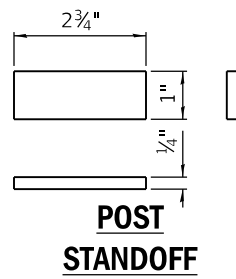
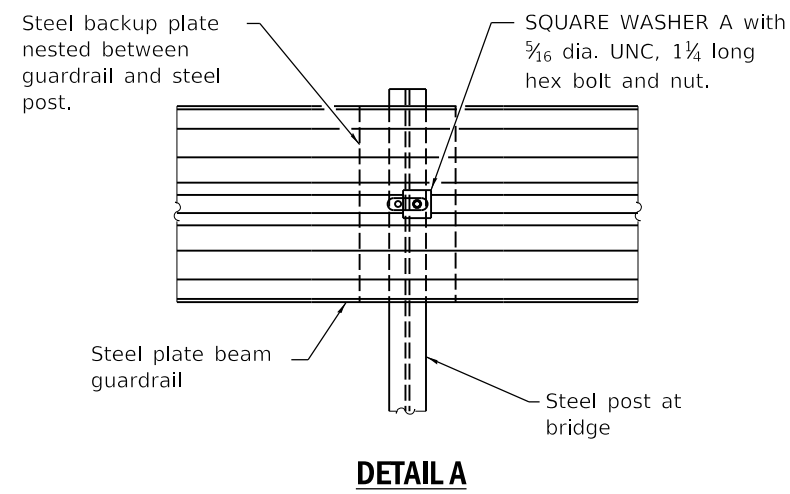
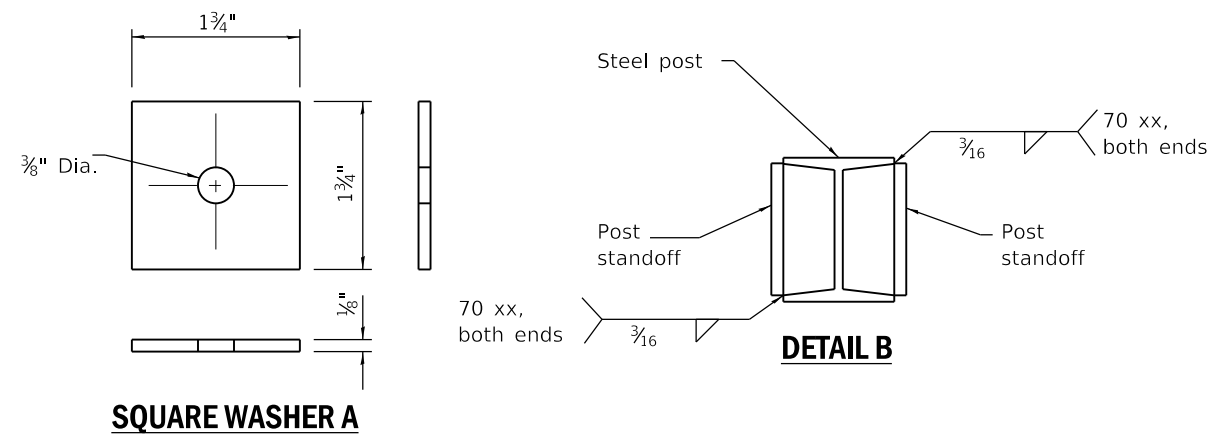
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL ATTACHED TO STRUCTURE (SHEET 1 OF 3)
STRUCTURE NO 072-4715**

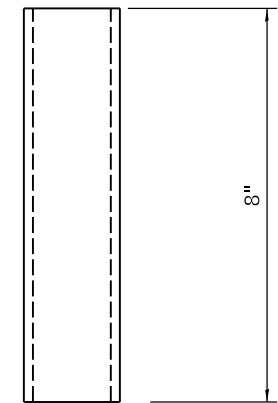
SHEET 6 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	21
19L0914		CONTRACT NO.		

ILLINOIS FED. AID PROJECT



TOP VIEW



SIDE VIEW

VERTICAL BOLT SLEEVE (CAST INTO CONCRETE)

MODEL: Rail Post Detail Sheet
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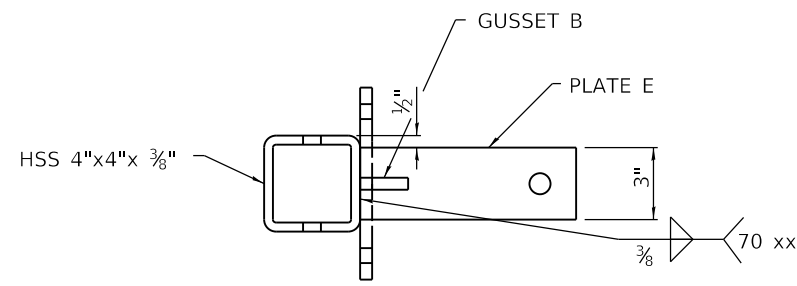
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL ATTACHED TO STRUCTURE (SHEET 2 OF 3)
 STRUCTURE NO 072-4715

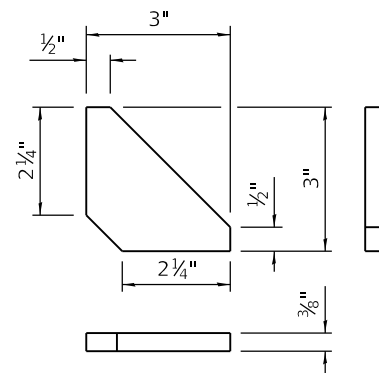
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184	17-16118-00-BR	PEORIA	42	22
19L0914			CONTRACT NO.	

SHEET 7 OF 15 SHEETS

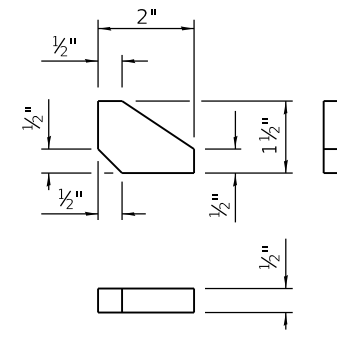
ILLINOIS FED. AID PROJECT



TOP VIEW



GUSSET A



GUSSET B

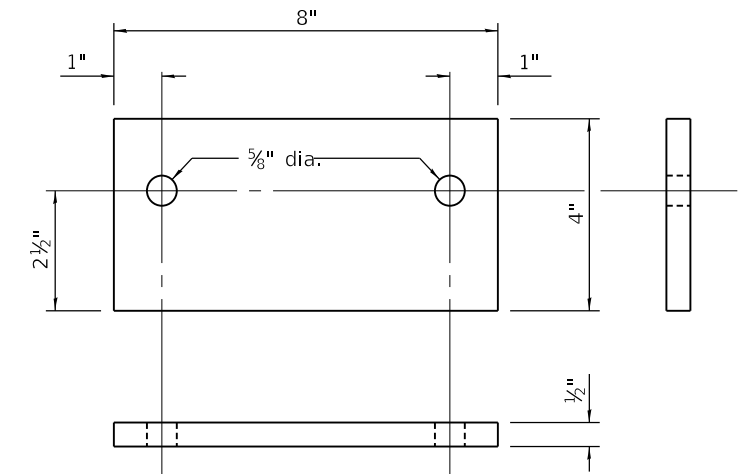
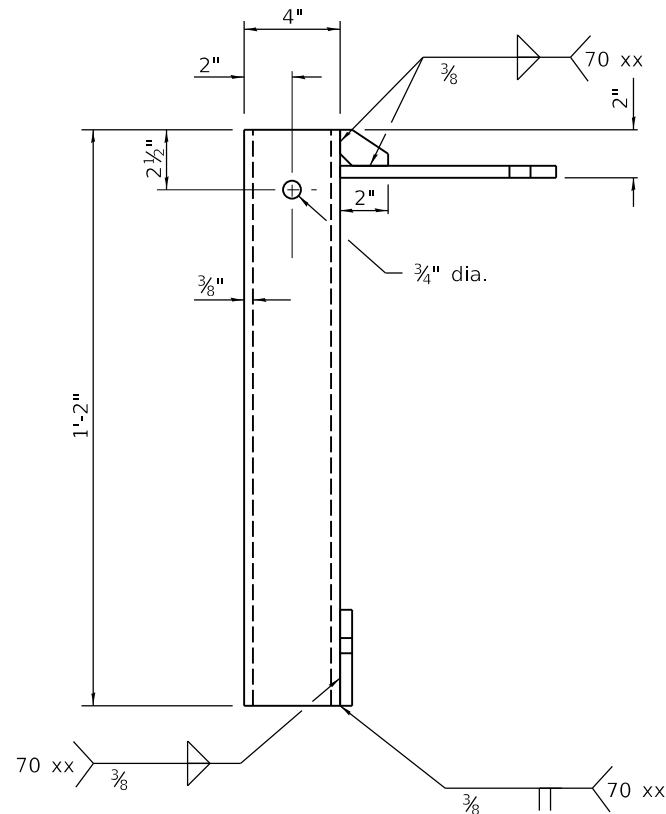
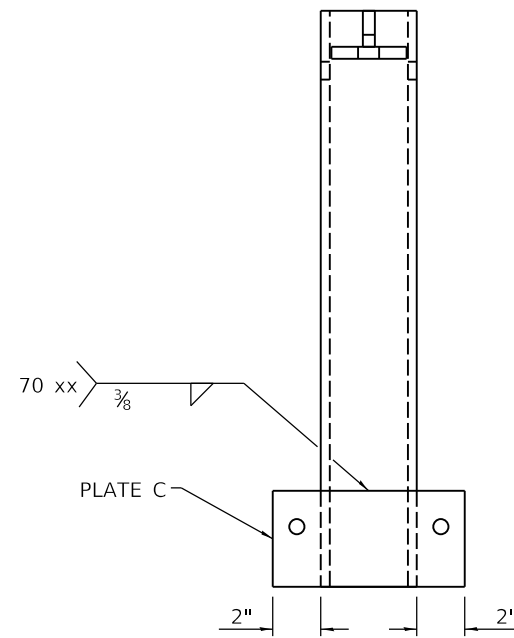


PLATE C



SIDE VIEW



FRONT VIEW

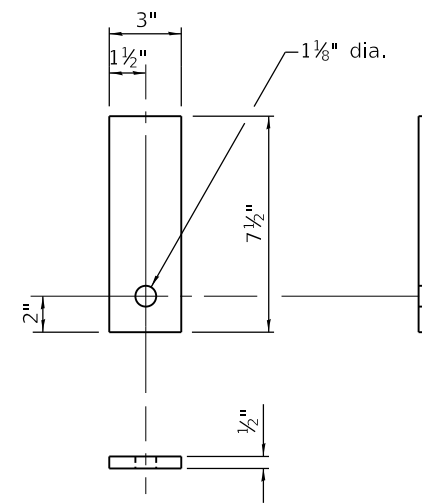
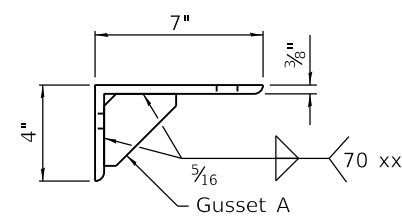
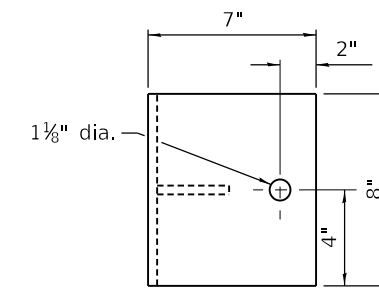
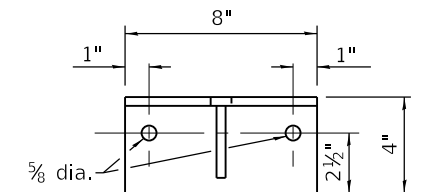


PLATE E



BRACKET B



SOCKET ASSEMBLY

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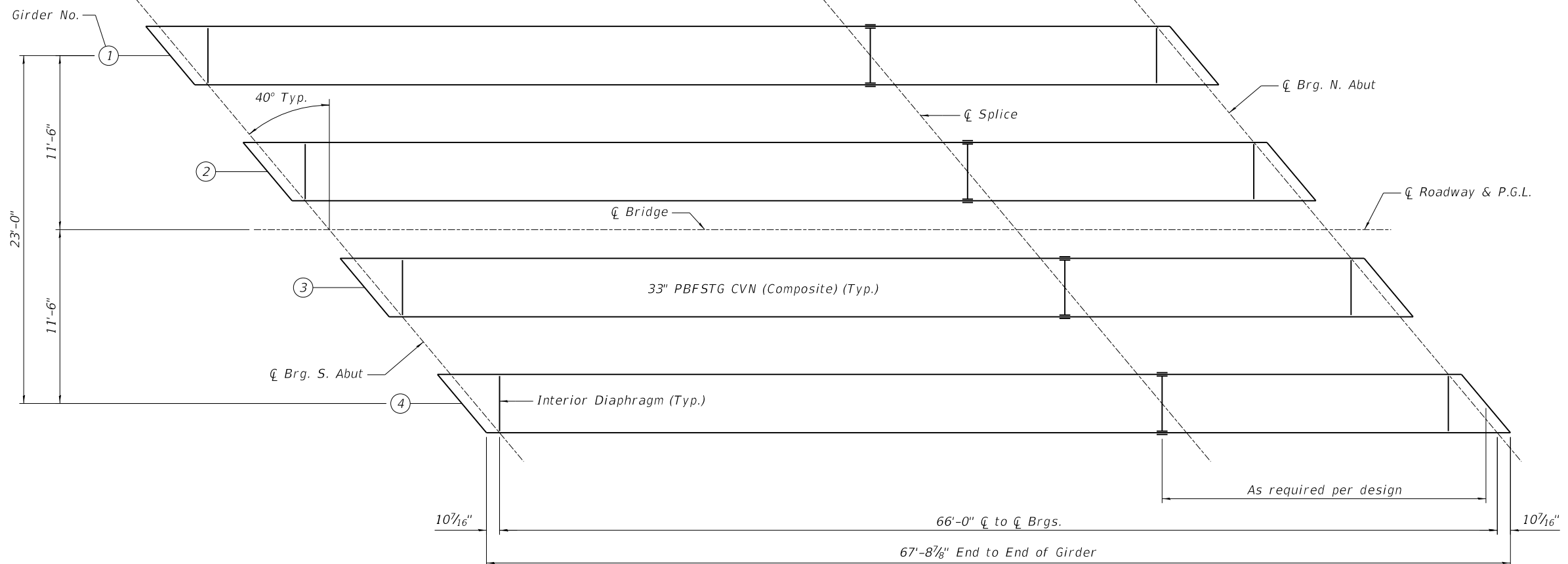
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

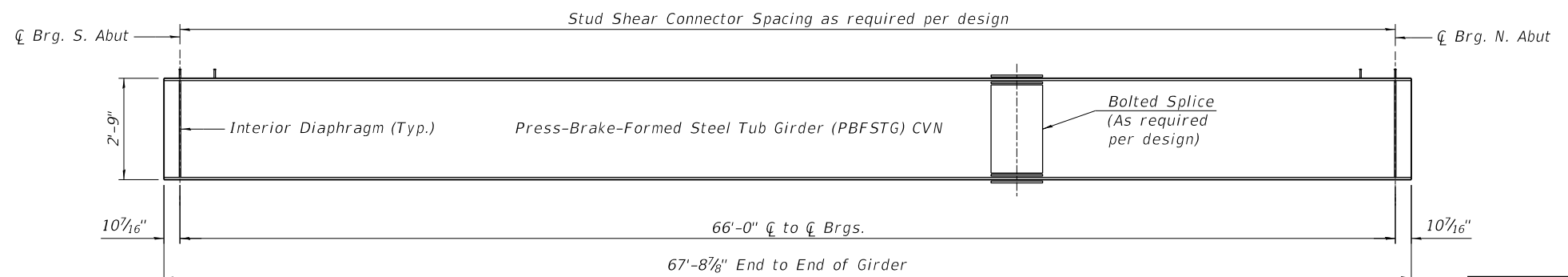
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 STRUCTURE NO 072-4715**

SHEET 8 OF 15 SHEETS

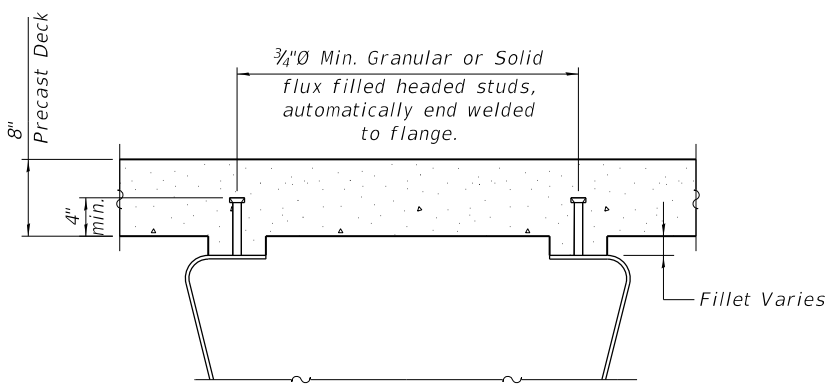
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	23
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



GIRDER ELEVATION



Notes:
 All primary members shall be A572 Grade 65. All secondary members shall be M270 Grade 50.
 For additional structural steel details see sheet 10 of 15.
 All girders shall be braced for stability during girder installation as required per Manufacturer.
 "CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.
 All Structural Steel and H.S. Bolts shall be galvanized according to the Special Provisions.
 Bolted splice shall not be permitted within the middle third of the span length.

Location	Cl Brg. S. Abut.	Cl Brg. N. Abut.
Girder 1		
Girder 2		
Girder 3		
Girder 4		

TOP OF WEB ELEVATIONS

(For fabrication only)
 (Does not include Dead Load Deflection)
 Top of Web Elevations to be determined/filled out by Designer/Manufacturer if required.

MODEL: Structural Steel Sheet
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PLOT DATE = 9/15/2020	CHECKED - CGP, MNM	REVISED -

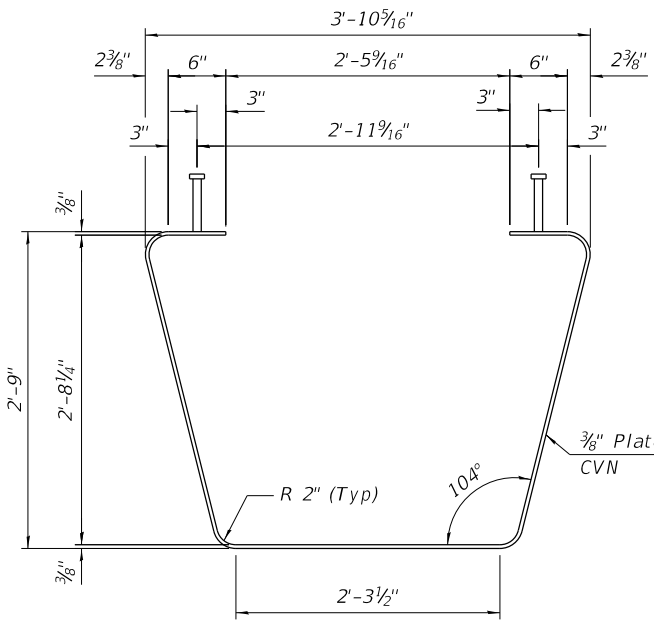
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL
 STRUCTURE NO 072-4715**

SHEET 9 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	24
19L0914		CONTRACT NO.		

ILLINOIS FED. AID PROJECT



ESTIMATED STEEL SECTION

Notes:
 Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and places as shown on bearing details.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 The structural steel plates of the fixed bearings, including pintles (if applicable), shall conform to the requirements of AASHTO M270 Grade 50.
 Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 "CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.
 All primary members shall be A572 Grade 65. All secondary members shall be M270 Grade 50.
 All structural steel and H.S. bolts shall be galvanized according to the Special Provisions.

* Bearing plate width is based on plate layout along the \bar{C} of bearing. Abutment width allows for bearing plate aligned perpendicular to girder. Adjustment is allowed if needed for design of PBFSTG.

** Hanson Professional Services Inc. design includes substructure elements only. Abutment design and details are based on assumed typical reactions and dimensions. Contractor shall verify that final design and details are compatible with the selected superstructure prior to construction. The contractor shall employ a Structural Engineer licensed in the State of Illinois to provide alternate abutment designs as required at no additional cost to the contract.

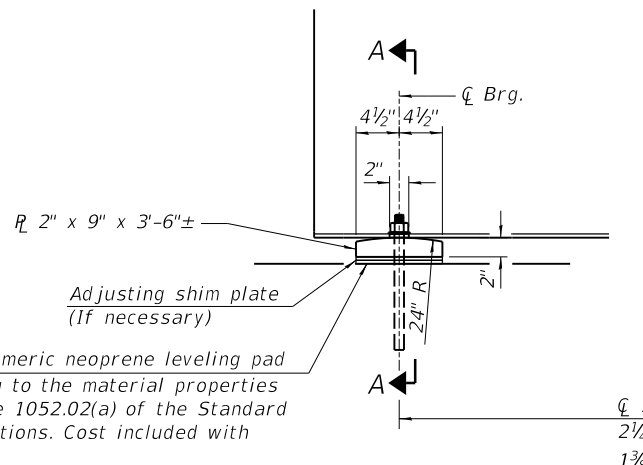
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	Abutment
	Interior / Exterior
RDC1	(k) 35
RDC2	(k) 1
RDW	(k) 20
R \bar{t}	(k) 41.5
R $\bar{I}M$	(k) 10.2
RTotal	(k) 107.7

***INTERIOR GIRDER MOMENT TABLE	
	0.5 Sp. 1
I \bar{s}	(in ⁴)
I $\bar{c}(n)$	(in ⁴)
I $\bar{c}(3n)$	(in ⁴)
S \bar{s}	(in ³)
S $\bar{c}(n)$	(in ³)
S $\bar{c}(3n)$	(in ³)
DC1	(k-ft)
MDC1	(k)
DC2	(k-ft)
MDC2	(k)
DW	(k-ft)
MDW	(k)
LLDF	
M \bar{t} + IM	(k)
Mu (Strength I)	(k)
$\bar{\phi}$ Mn	(k)
f \bar{s} DC1	(ksi)
f \bar{s} DC2	(ksi)
f \bar{s} DW	(ksi)
f \bar{s} (\bar{t} +IM)	(ksi)
f \bar{s} (Service II)	(ksi)
0.95Rh Fyf	(ksi)
f \bar{s} (Total)(Strength I)	(ksi)
$\bar{\phi}$ F \bar{n}	(ksi)
V \bar{f}	(k)

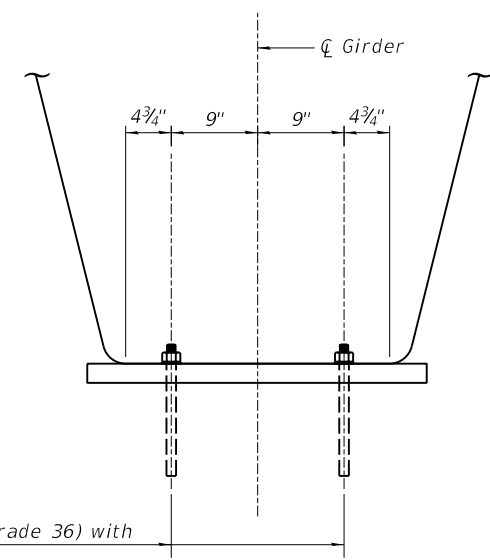
***INTERIOR GIRDER REACTION TABLE		
	Abutment	
	Interior	Exterior
LLDF		
OCF		
RDC1	(k)	
RDC2	(k)	
RDW	(k)	
R \bar{t}	(k)	
R $\bar{I}M$	(k)	
RTotal	(k)	

*** Information to be provided by PBFSTG manufacturer. See Special Provisions.

Non-composite moment of inertia and section modulus of the I \bar{s} , S \bar{s} : steel section used for computing f \bar{s} (Total-Strength I, and Service II) due to non-composite dead loads (in.4 and in.³).
 Composite moment of inertia and section modulus of the steel I $\bar{c}(n)$, S $\bar{c}(n)$: and deck based upon the modular ratio, "n", used for computing f \bar{s} (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.4 and in.³).
 Composite moment of inertia and section modulus of the steel I $\bar{c}(3n)$, S $\bar{c}(3n)$: and deck based upon 3 times the modular ratio, "3n", used for computing f \bar{s} (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
 Un-factored non-composite dead load (kips/ft.).
 DC1: Un-factored moment due to non-composite dead load (kip-ft.).
 MDC1: Un-factored long-term composite (superimposed excluding future DC2: wearing surface) dead load (kips/ft.).
 Un-factored moment due to long-term composite (superimposed MDC2: excluding future wearing surface) dead load (kip-ft.).
 Un-factored long-term composite (superimposed future wearing DW: surface only) dead load (kips/ft.).
 Un-factored moment due to long-term composite (superimposed MDW: future wearing surface only) dead load (kip-ft.).
 Un-factored live load moment plus dynamic load allowance (impact) M \bar{t} + IM: (kip-ft.).
 Factored design moment (kip-ft.).
 Mu (Strength I): 1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M
 Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
 Un-factored stress at edge of flange for controlling steel f \bar{s} DC1: flange due to vertical non-composite dead loads as calculated below (ksi).
 MDC1/ S $\bar{c}n$
 Un-factored stress at edge of flange for controlling steel f \bar{s} DC2: flange due to vertical composite dead loads as calculated below (ksi).
 MDC2/ S $\bar{c}(3n)$ or MDC2/ S $\bar{c}(cr)$ as applicable.
 Un-factored stress at edge of flange for controlling steel f \bar{s} DW: flange due to vertical composite future wearing surface loads as calculated below (ksi).
 MDW/ S $\bar{c}(3n)$ or MDW/ S $\bar{c}(cr)$ as applicable.
 Un-factored stress at edge of flange for controlling steel f \bar{s} (\bar{t} +IM): flange due to vertical composite live load plus impact loads as calculated below (ksi).
 M \bar{t} / S $\bar{c}(n)$ or M \bar{t} / S $\bar{c}(cr)$ as applicable.
 Sum of stresses as computed below (ksi).
 f \bar{s} (Service II): f $\bar{s}DC1$ + f $\bar{s}DC2$ + f $\bar{s}DW$ + 1.3 f \bar{s} ()
 Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 0.95RhFyf: Sum of stresses as computed below on non-compact f \bar{s} (Total)(Strength I): section (ksi).
 1.25 (f $\bar{s}DC1$ + f $\bar{s}DC2$) + 1.5 f $\bar{s}DW$ + 1.75 f \bar{s} ()
 Non-Compact composite positive or negative stress capacity for $\bar{\phi}$ F \bar{n} : Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
 Maximum factored shear range in span computed according to Article 6.10.10.
 LLDF: Live Load Distribution Factor
 OCF: Obtuse correction Factor



ELEVATION AT ABUTMENT



SECTION A-A

(Horiz. dimensions at Rt. L's to \bar{C} Girder)

Notes:
 All bearing plates, anchor bolts, nuts, washers and pintles (if applicable) shall be galvanized according to AASHTO M111 or M232 as applicable.

FIXED BEARINGS AT ABUTMENTS

(8 required)

MODEL: Structural Steel Detail Sheet
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PLOT DATE = 9/15/2020	DRAWN - R. JOHNSON	REVISED -
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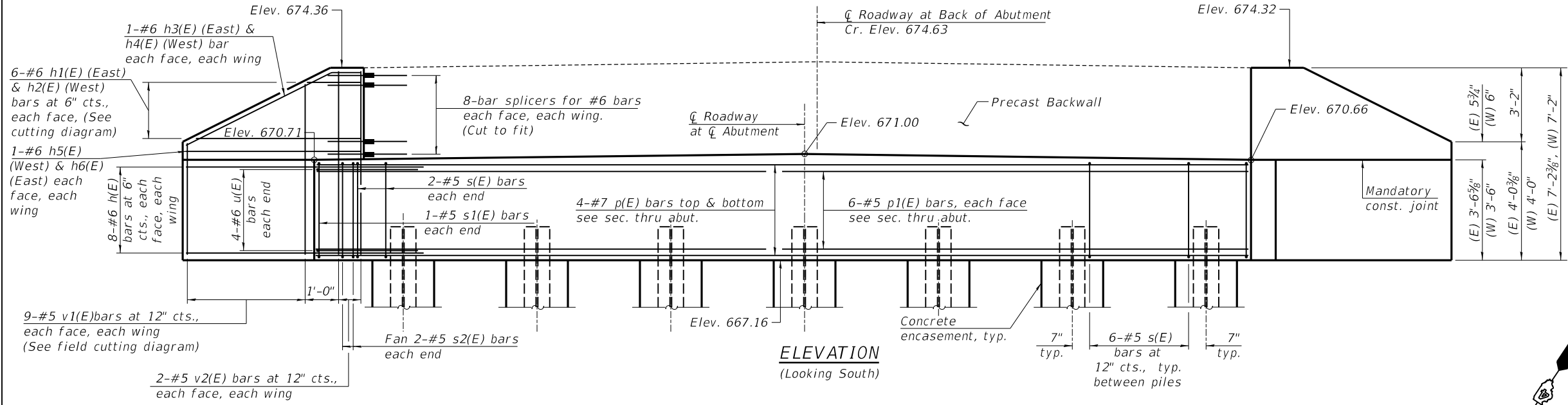
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
 SHEET NO 072-4715

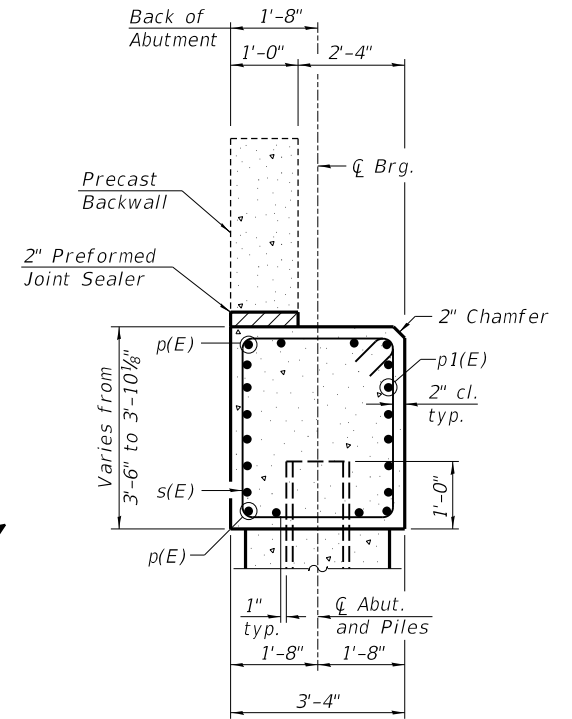
SHEET 10 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	25
19L0914		CONTRACT NO.		

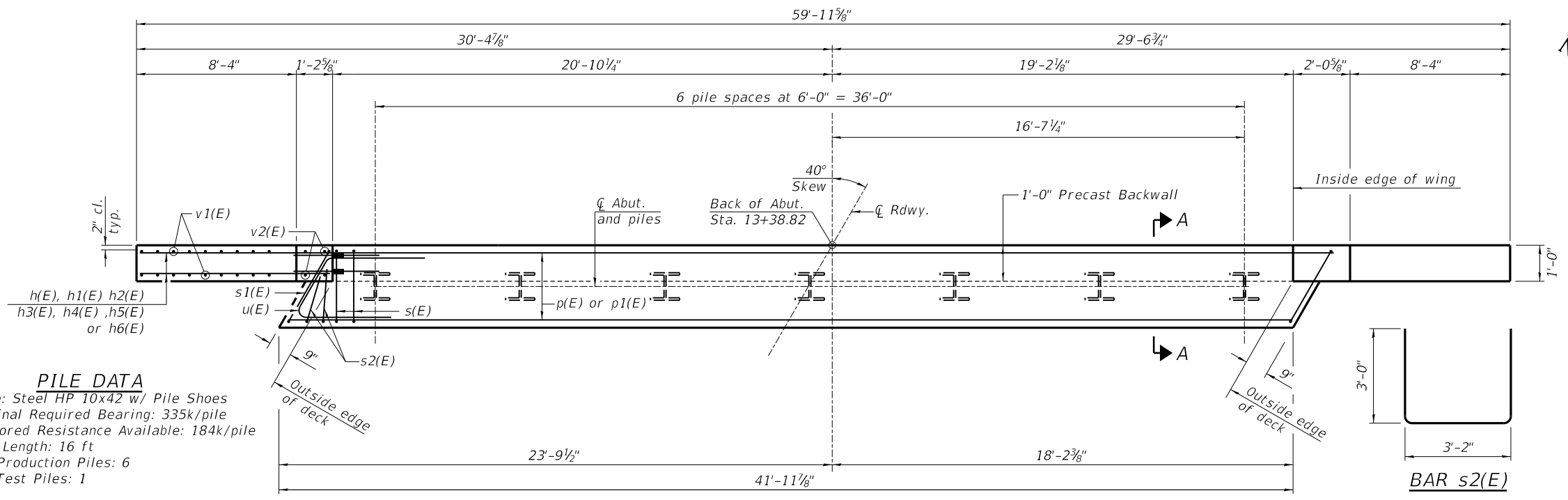
ILLINOIS FED. AID PROJECT



ELEVATION
(Looking South)

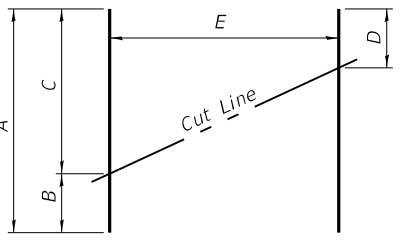


SECTION A-A
(Dimensions are at right angles to abutment)



PLAN

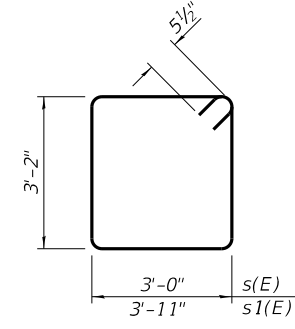
PILE DATA
Type: Steel HP 10x42 w/ Pile Shoes
Nominal Required Bearing: 335k/pile
Factored Resistance Available: 184k/pile
Est. Length: 16 ft
No. Production Piles: 6
No. Test Piles: 1



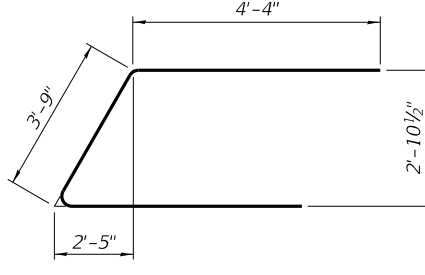
FIELD CUTTING DIAGRAM
Order bars full length. Cut as shown and use remainder of bars in opposite face of wing.

BAR CUT TABLE SOUTH

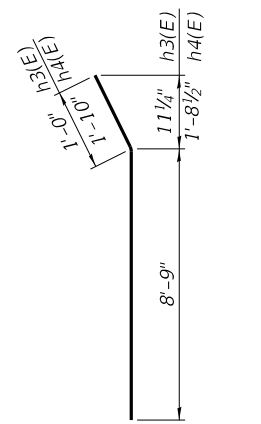
	A	B	C	D	E
v1(E)	10'-2"	3'-8"	6'-6"	3'-8"	9-#5 v1(E) bars
h1(E)	11'-9"	2'-7"	9'-2"	2'-7"	9-#5 h1(E) bars
h2(E)	13'-5"	3'-5"	10'-0"	3'-5"	6-#5 h2(E) bars



BARS s(E) & s1(E)



BAR u(E)



BARS h3(E) & h4(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#6	12'-2"	—
h1(E)	6	#6	11'-9"	—
h2(E)	6	#6	13'-5"	—
h3(E)	2	#6	9'-9"	—
h4(E)	2	#6	10'-7"	—
h5(E)	2	#6	10'-0"	—
h6(E)	2	#6	9'-3"	—
p(E)	8	#7	41'-7"	—
p1(E)	12	#5	41'-7"	—
s(E)	40	#5	13'-3"	□
s1(E)	2	#5	15'-1"	□
s2(E)	4	#5	9'-2"	□
u(E)	8	#6	12'-5"	⌒
v1(E)	18	#5	10'-2"	—
v2(E)	8	#5	6'-10"	—
Structure Excavation	Cu. Yd.		155	
Concrete Structures	Cu. Yd.		23.1	
Reinforcement Bars, Epoxy Coated	Pound		3150	
Bar Splicers	Each		32	
Furnishing Steel Piles, HP10x42	Foot		96	
Driving Piles	Foot		96	
Test Pile Steel HP10x42	Each		1	
Pile Shoes	Each		7	
Concrete Encasement	Cu. Yd.		2.4	

Notes:
For details of piles and Concrete Encasement, see sheet 13 of 15.
For Bar Splicer Details see sheet 14 of 15.
Cast upper portion of wingwall after superstructure including precast backwalls have been erected.

MODEL: South Abutment Sheet
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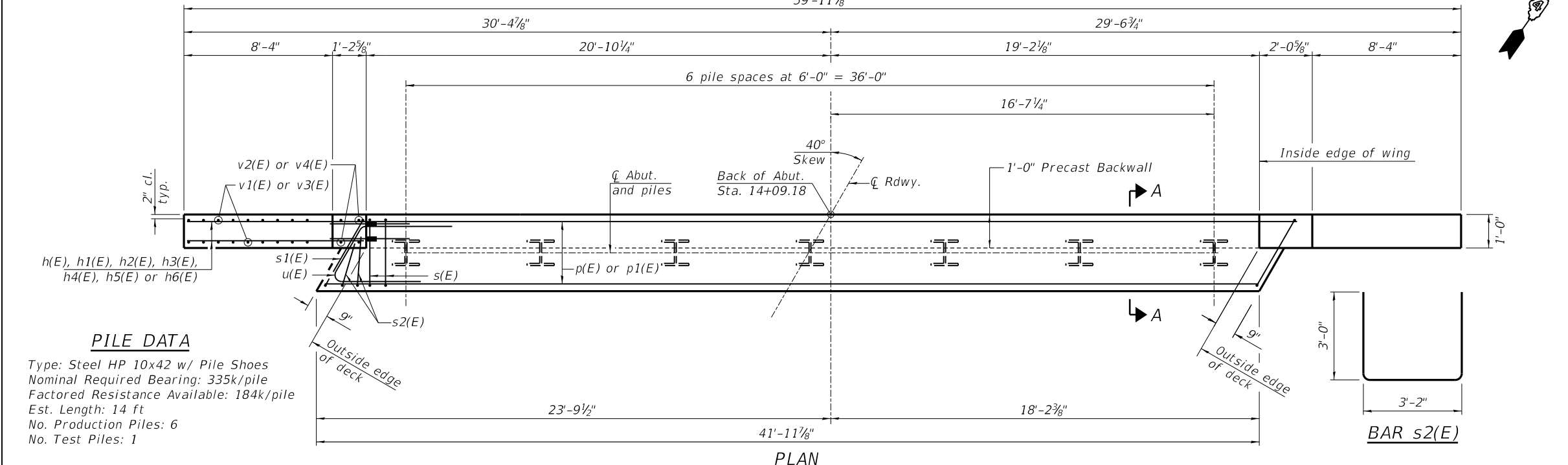
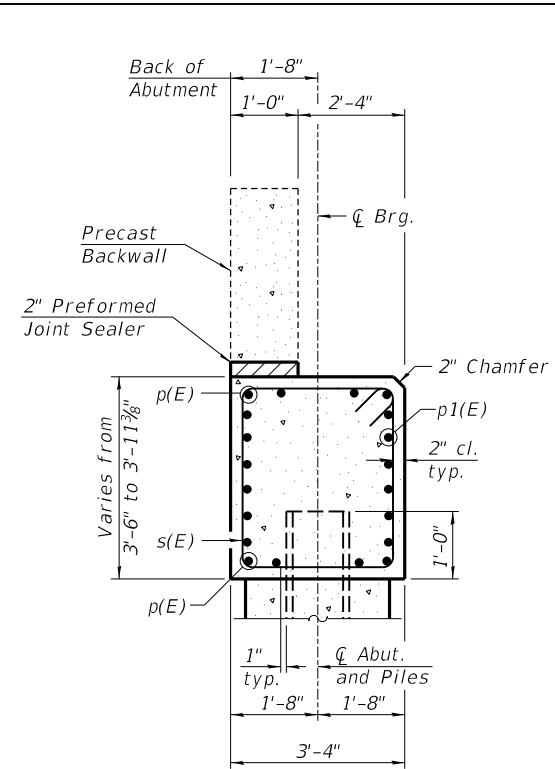
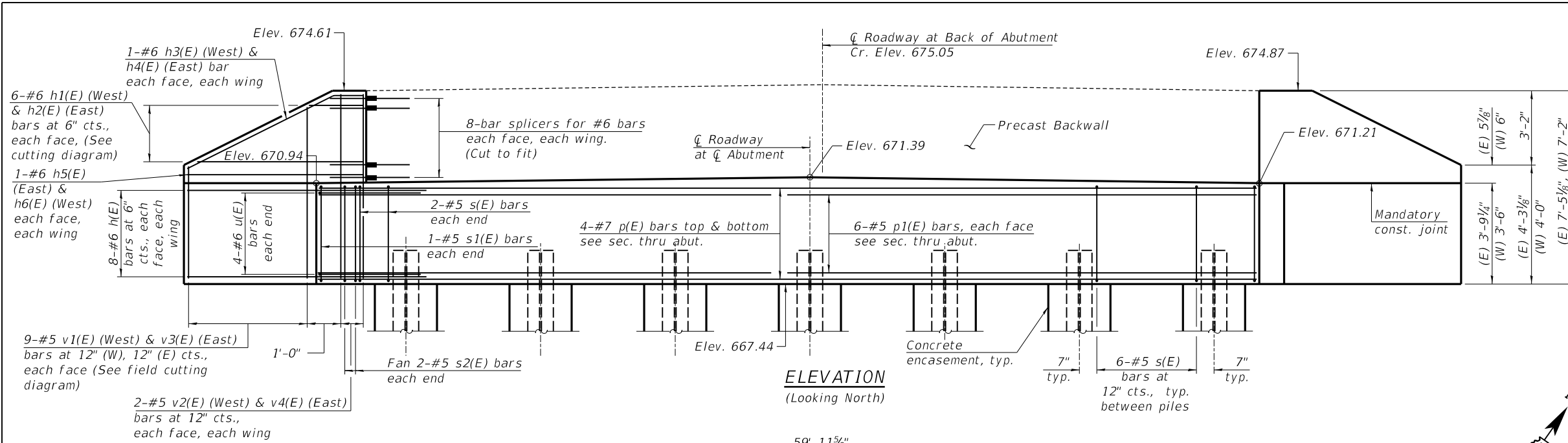
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO 072-4715

SHEET 11 OF 15 SHEETS

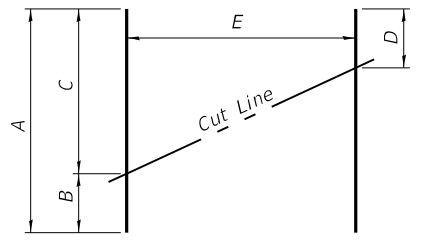
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	26
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

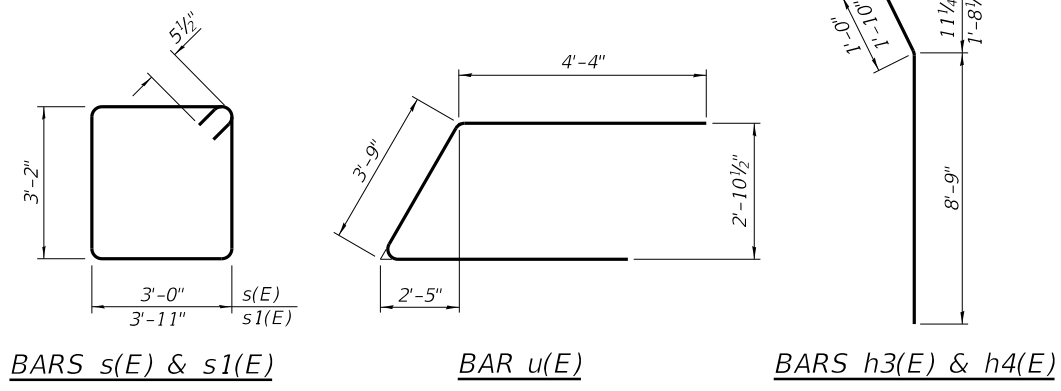
Bar	No.	Size	Length	Shape
h(E)	32	#6	12'-2"	—
h1(E)	6	#6	11'-9"	—
h2(E)	6	#6	13'-5"	—
h3(E)	2	#6	9'-9"	—
h4(E)	2	#6	10'-7"	—
h5(E)	2	#6	10'-0"	—
h6(E)	2	#6	9'-3"	—
p(E)	8	#7	41'-7"	—
p1(E)	12	#5	41'-7"	—
s(E)	40	#5	13'-3"	□
s1(E)	2	#5	15'-1"	□
s2(E)	4	#5	9'-2"	□
u(E)	8	#6	12'-5"	└
v1(E)	9	#5	10'-2"	—
v2(E)	4	#5	6'-10"	—
v3(E)	9	#5	10'-8"	—
v4(E)	4	#5	7'-1"	—
Structure Excavation		Cu. Yd.	160	
Concrete Structures		Cu. Yd.	23.5	
Reinforcement Bars, Epoxy Coated		Pound	3160	
Bar Splicers		Each	32	
Furnishing Steel Piles, HP10x42		Foot	84	
Driving Piles		Foot	84	
Test Pile Steel HP10x42		Each	1	
Pile Shoes		Each	7	
Concrete Encasement		Cu. Yd.	2.4	

PILE DATA
Type: Steel HP 10x42 w/ Pile Shoes
Nominal Required Bearing: 335k/pile
Factored Resistance Available: 184k/pile
Est. Length: 14 ft
No. Production Piles: 6
No. Test Piles: 1



BAR CUT TABLE
NORTH

	A	B	C	D	E
v1(E)	10'-2"	3'-8"	6'-6"	3'-8"	9-#5 v1(E) bars
v3(E)	10'-8"	3'-11"	6'-9"	3'-11"	9-#5 v3(E) bars
h1(E)	11'-9"	2'-7"	9'-2"	2'-7"	6-#5 h1(E) bars
h2(E)	13'-5"	3'-5"	10'-0"	3'-5"	6-#5 h2(E) bars



Notes:
For details of piles and Concrete Encasement, see sheet 13 of 15.
For Bar Splicer Details see sheet 14 of 15.
Cast upper portion of wingwall after superstructure including precast backwalls have been erected.

MODEL: North Abutment Sheet
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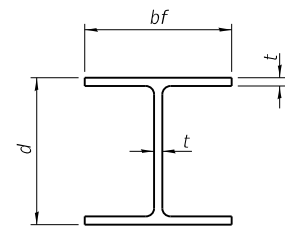
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PLOT DATE = 9/15/2020	DRAWN - R. JOHNSON	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO 072-4715

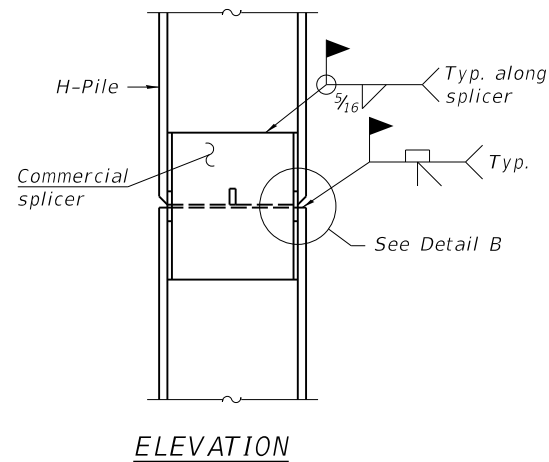
SHEET 12 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

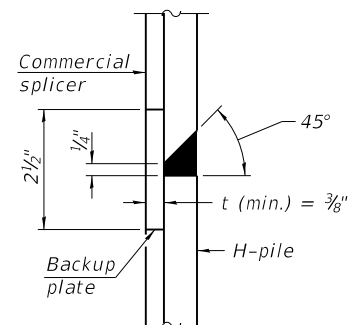


STEEL PILE TABLE

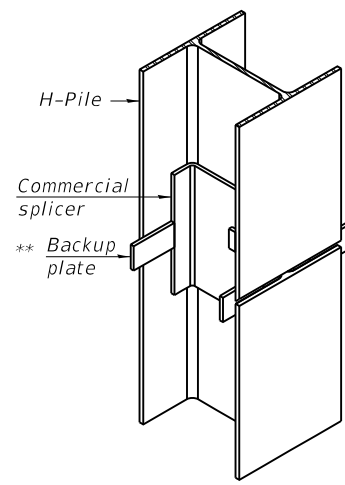
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

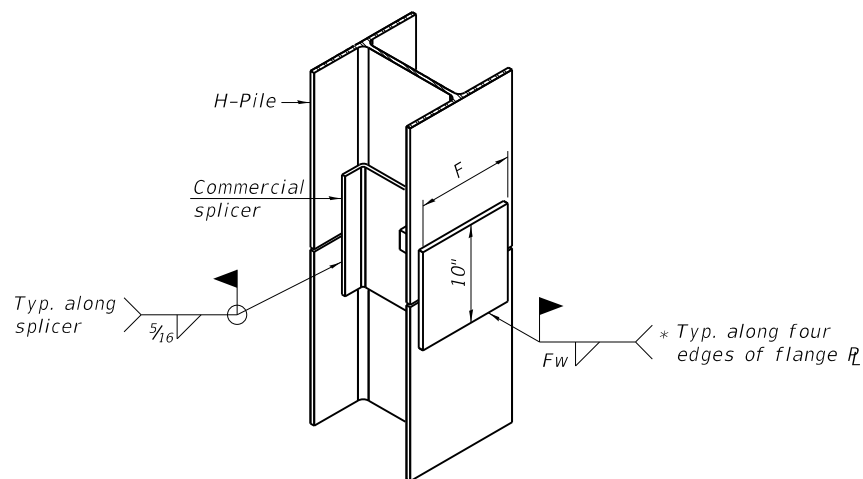


DETAIL "B"



ISOMETRIC VIEW

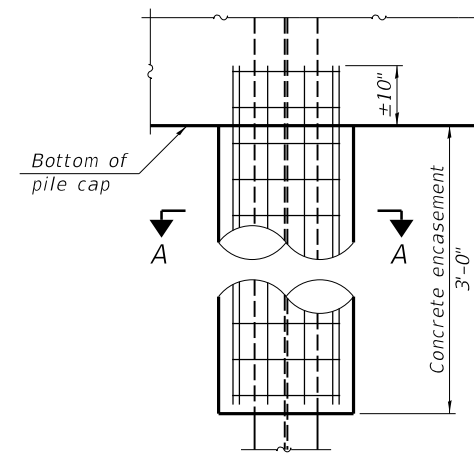
WELDED COMMERCIAL SPLICE



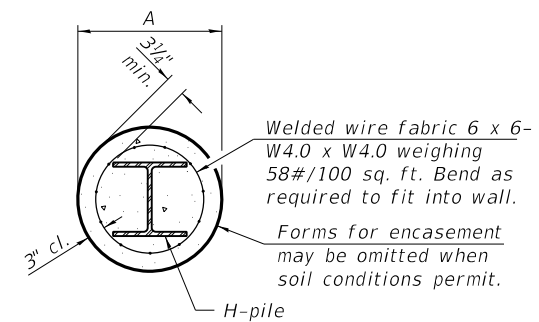
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

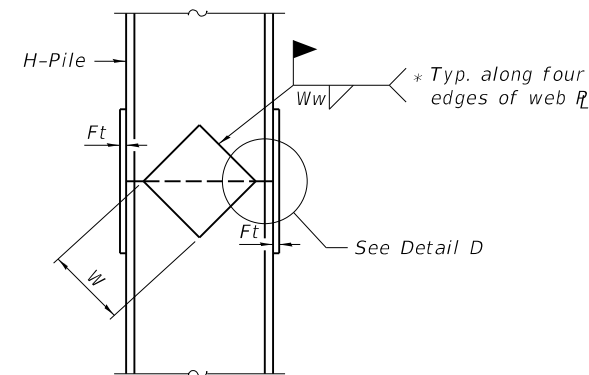


ELEVATION

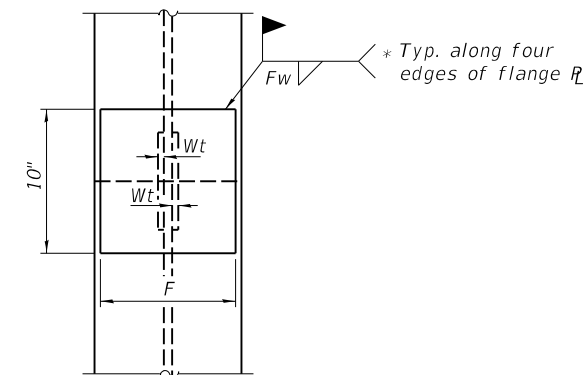


SECTION A-A

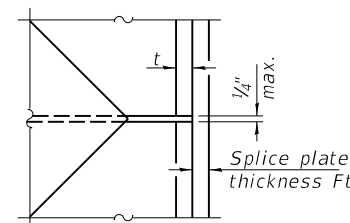
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



ELEVATION



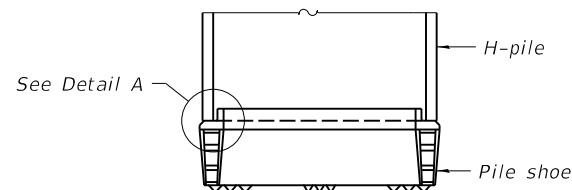
END VIEW



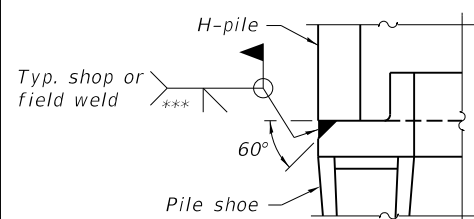
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

MODEL: HP Pile Detail Sheet
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F-HP 1-1-2020



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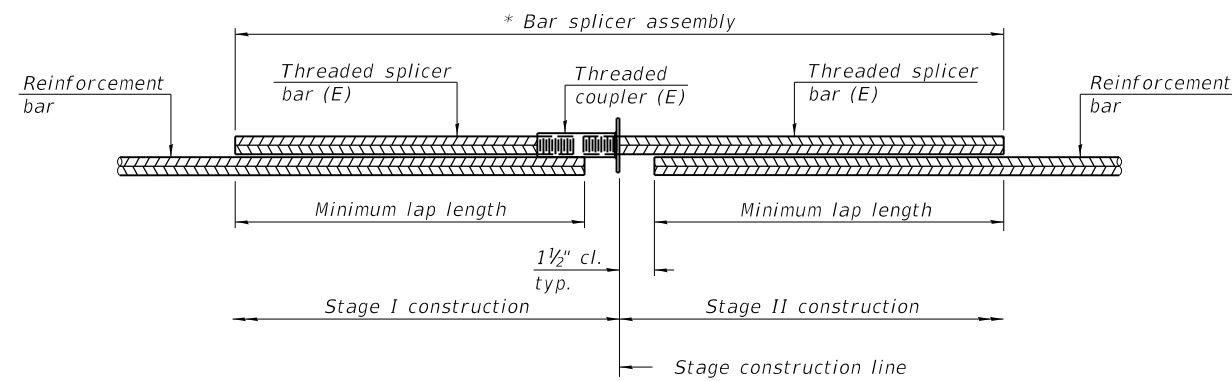
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CHECKED	- M. MENDENHALL	REVISED	-
DRAWN	- R. JOHNSON	REVISED	-
CHECKED	- CGP, MNM	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO 072-4715**

SHEET 13 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	28
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

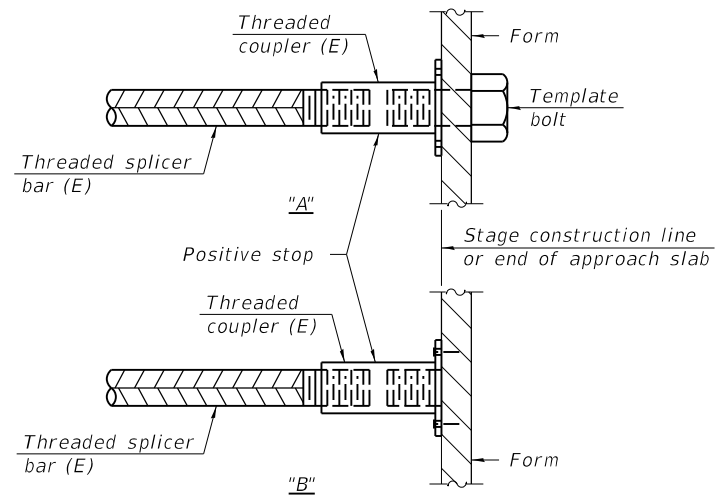


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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
S. Abut.	6	32	3'-7"
N. Abut.	6	32	3'-7"

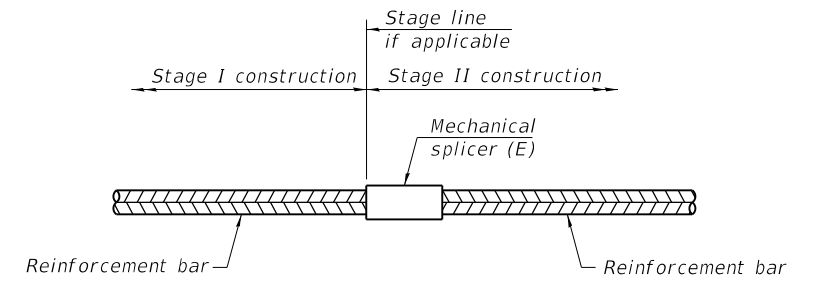


INSTALLATION AND SETTING METHODS

"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

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: Bar Splicer
 FILE NAME: \\1910194\CAD\Struct\Sheet\072-4715-191.0194-014-Bar Splicer.dgn

BSD-1

1-1-2020



USER NAME = Johns00944	DESIGNED - C. PUZEY	REVISED -
	CHECKED - M. MENDENHALL	REVISED -
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PLOT DATE = 9/15/2020	CHECKED - CGP, MNM	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER DETAILS
 STRUCTURE NO 072-4715**

SHEET 14 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	29
19L0914		CONTRACT NO.		

ILLINOIS FED. AID PROJECT

B-2
Sta. 13+39, 10' LT
02/21/2020

	N	Qu	w%	
673.8				Dark brown SILTY CLAY, with aggregate (Roadway Shoulder)
672.5	7	1.35B	23	Dark brown SILTY CLAY LOAM
	7	2.95B	21	
667.8	3	0.25P	18	Brown-gray SILTY CLAY LOAM
DD				
663.8	7	1.48B	21	
662.8	13	3.5P	18	Brown SILTY LOAM
	21	4.5+P	17	
655.8	240M	12		Gray WEATHERED SHALE
653.4				LIMESTONE
652.4				Auger Refusal at 21.4' - Apparent Bedrock

B-1
Sta. 13+98, 6' RT
02/21/2020

	N	Qu	w%	
674.3				Dark brown SILTY CLAY, with aggregate (Roadway Shoulder)
673.1	11	1.93B	16	Brown SILTY CLAY LOAM
671.3	7	1.25P	33	Dark brown SILTY CLAY LOAM
	5	0.45B	24	
666.3	7	1.58B	21	Brown-gray SILTY CLAY LOAM
	16			Sample 5 - Poor recovery, rock in split-spoon.
	21	4.5+P	16	
656.5	1655M			Auger Refusal at 17.8' - Apparent Bedrock

LEGEND

- N Standard Penetration Test N (blows/ft)
- Qu Unconfined Strength (tsf)
- w% Natural Moisture Content (%)
- DD Water Surface Elevation Encountered In Boring
- DD = during drilling
- Oh = at completion
- 24h = 24 hours after completion
- 240M Modified SPT \hat{N} (blows/ft)

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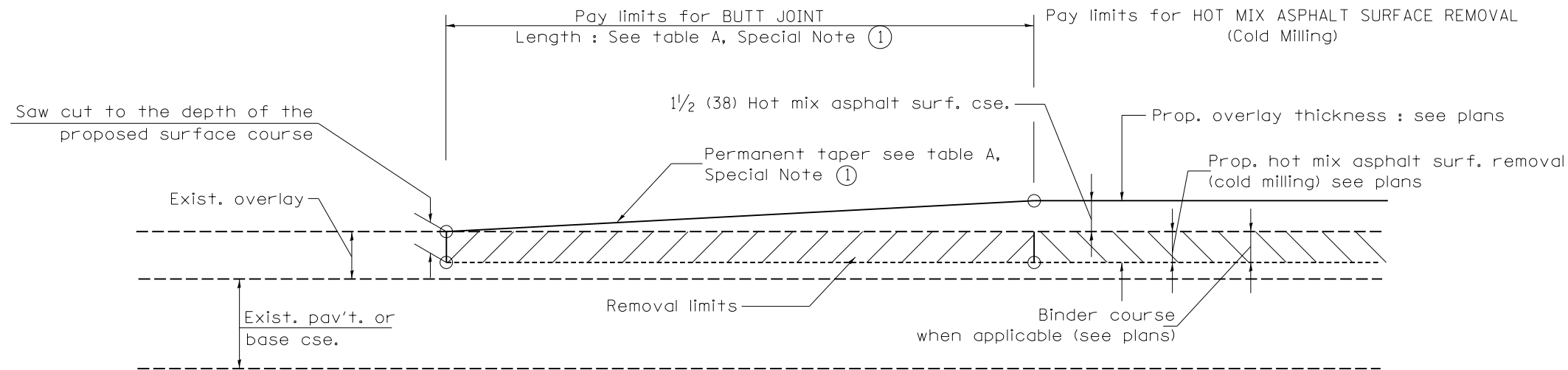
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS
STRUCTURE NO 072-4715

SHEET 15 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	30
19L0914		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



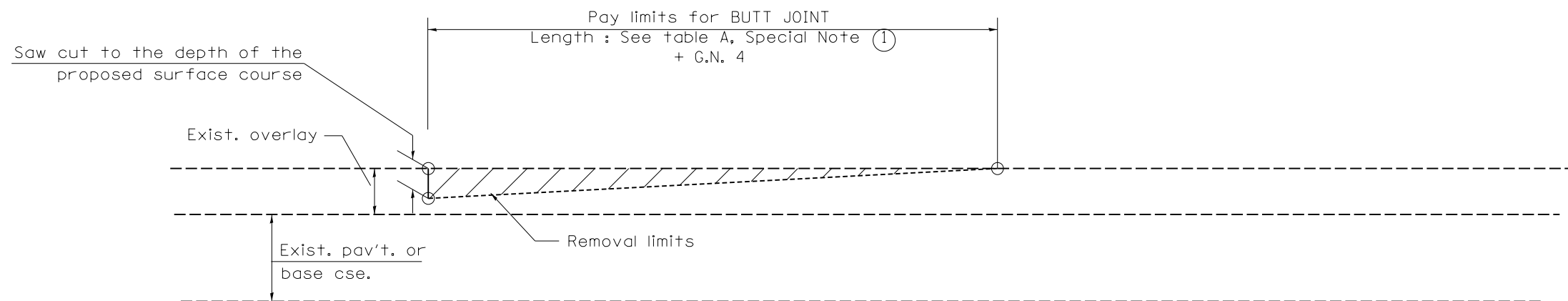
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
TAPER RATES

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

GENERAL NOTES

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



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

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

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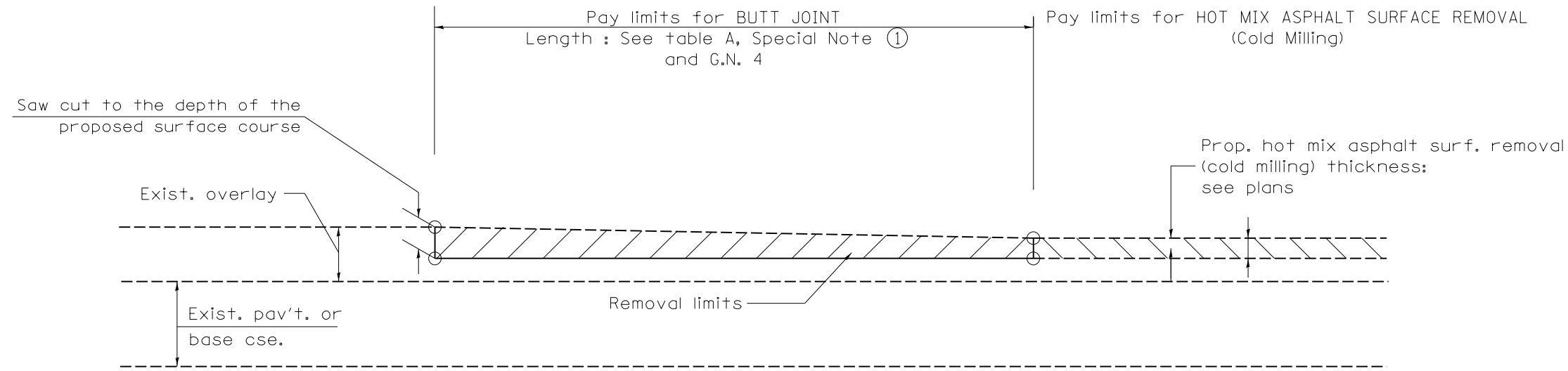
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

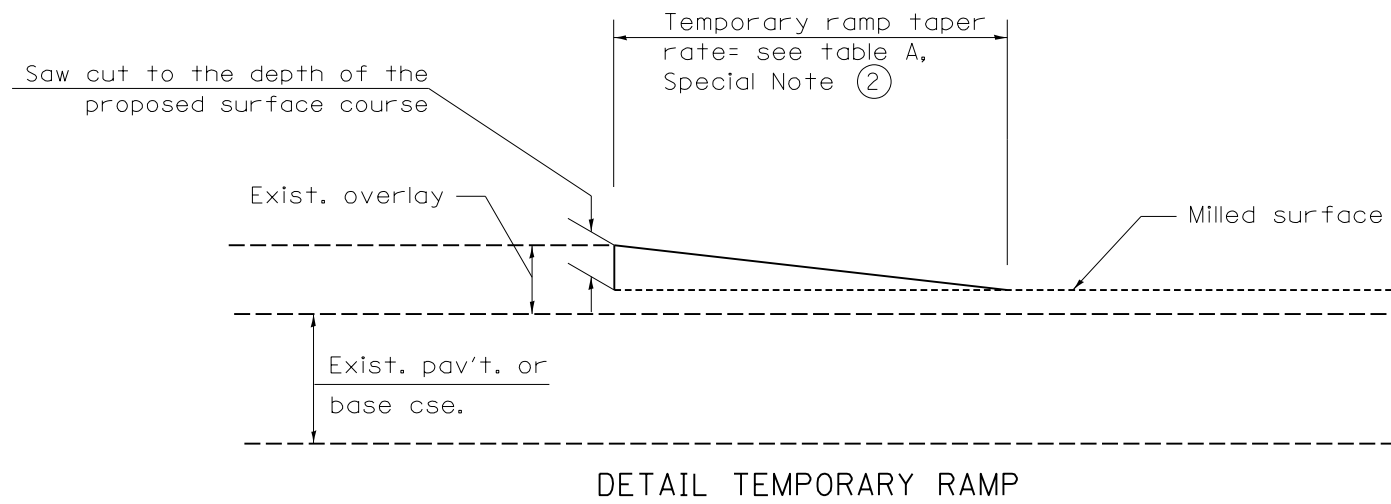
BUTT JOINTS
CADD STD. 406101-D4

SCALE: NTS SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	31
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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



DETAIL TEMPORARY RAMP

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

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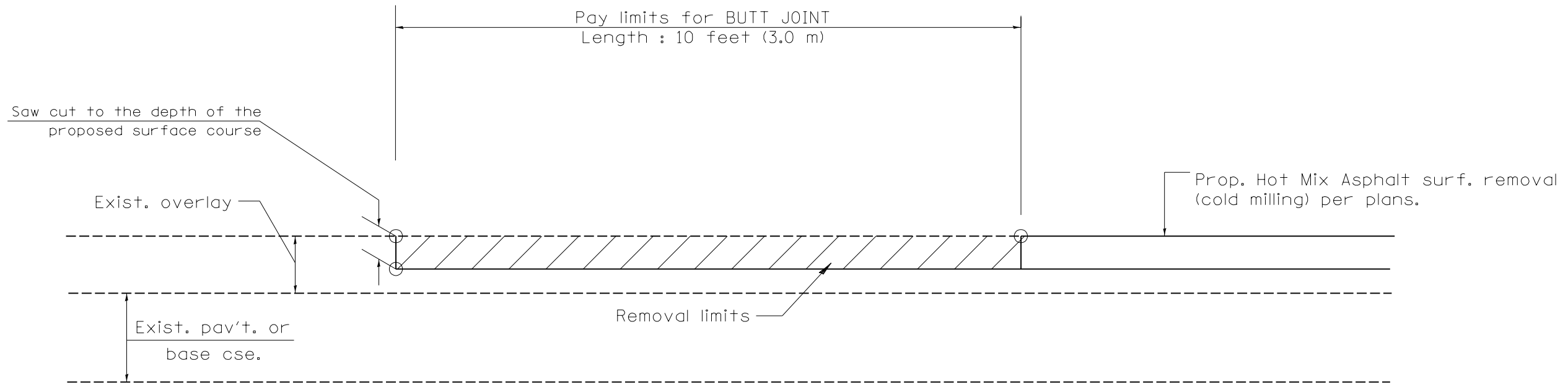
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PLOT DATE = 9/15/2020	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS
 CADD STD. 406101-D4**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	32
CONTRACT NO.				
ILLINOIS		FED. AID PROJECT		



**CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH
 HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
 TIE-IN TO EXISTING BITUMINOUS TAPER**

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

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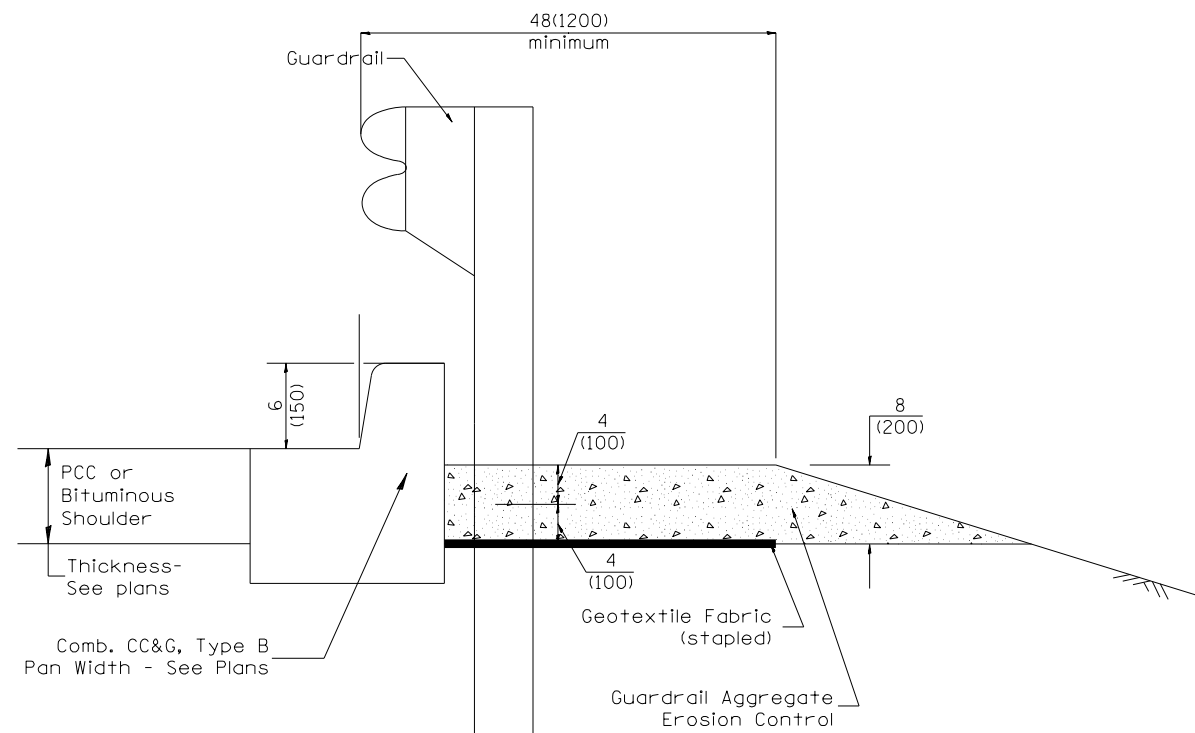
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PLOT DATE = 9/15/2020	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS
 CADD STD. 406101-D4**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

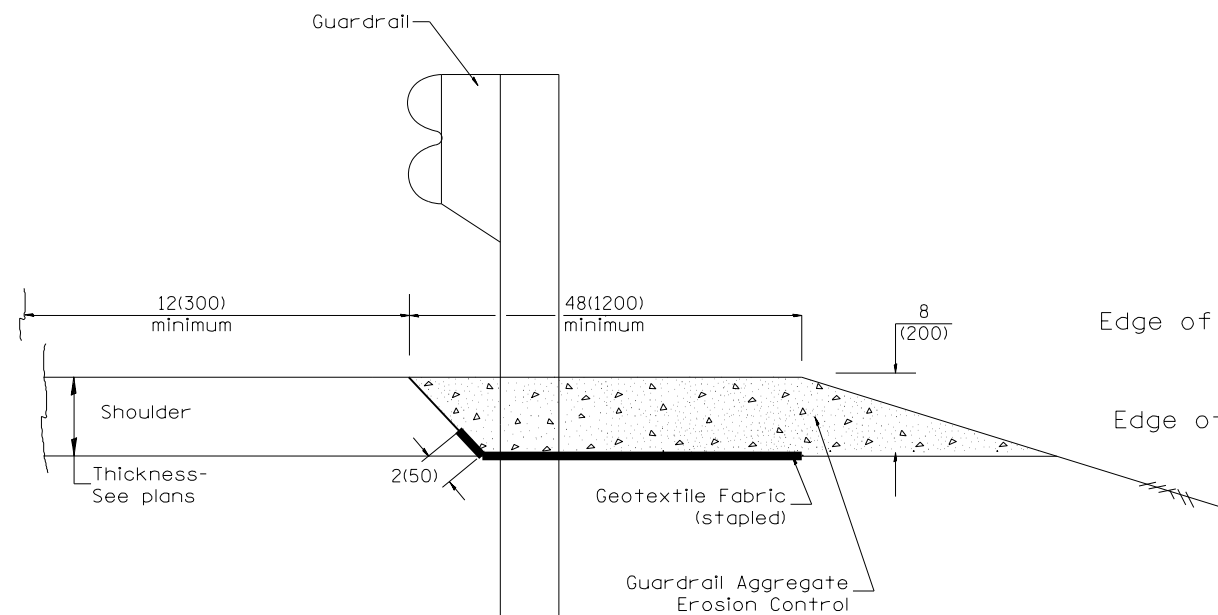
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184	17-16118-00-BR	PEORIA	42	33
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



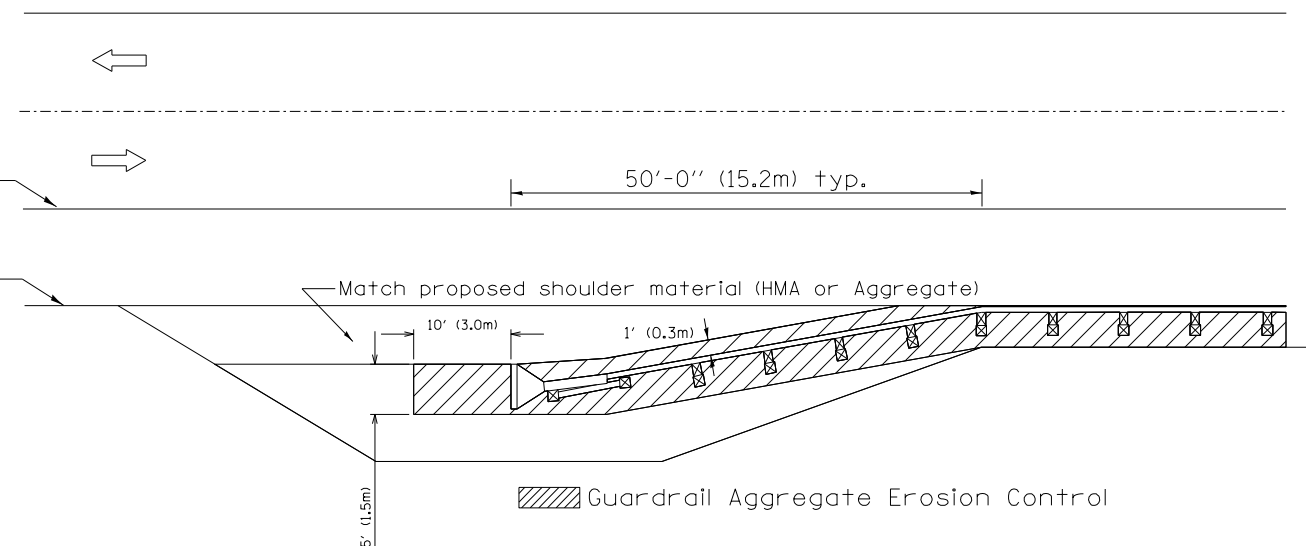
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

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.

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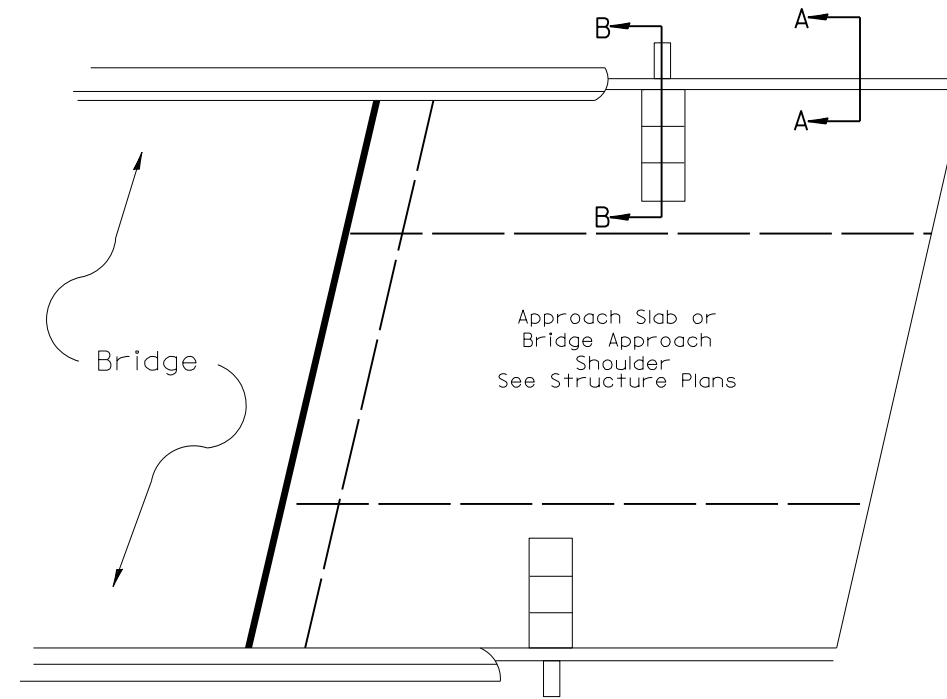
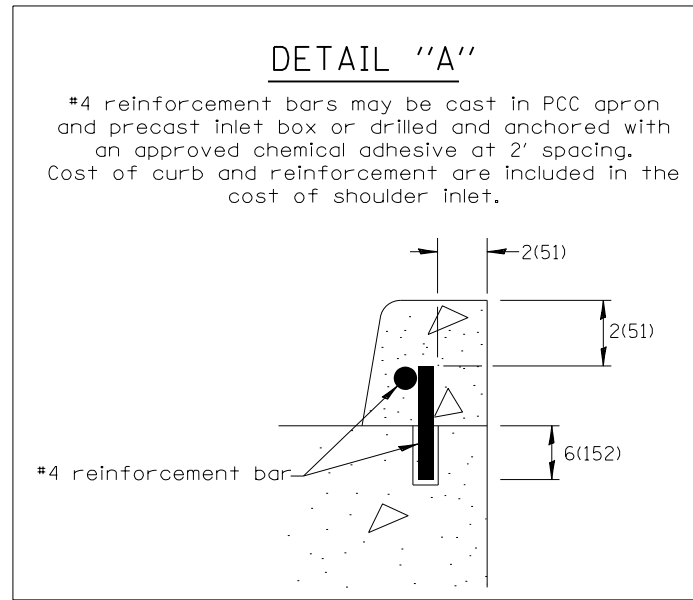
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

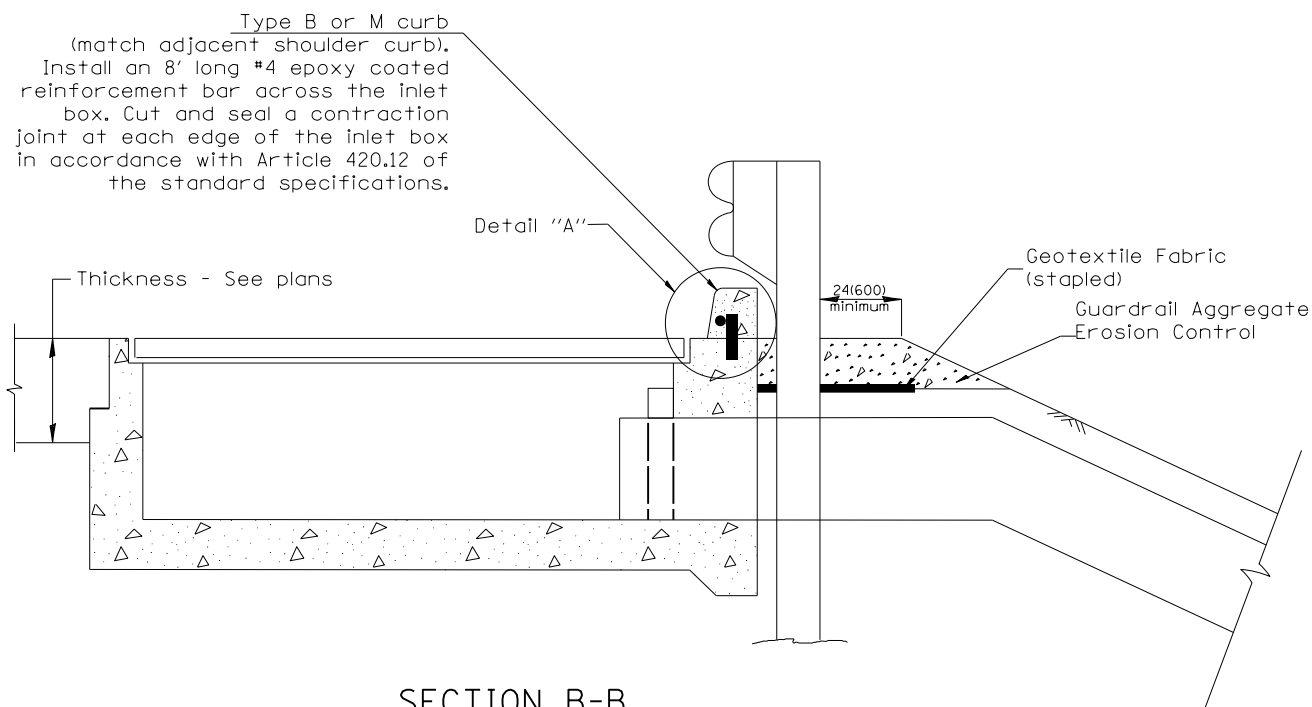
**GUARDRAIL EROSION CONTROL TREATMENTS
 CADD STD. 630101-D4**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

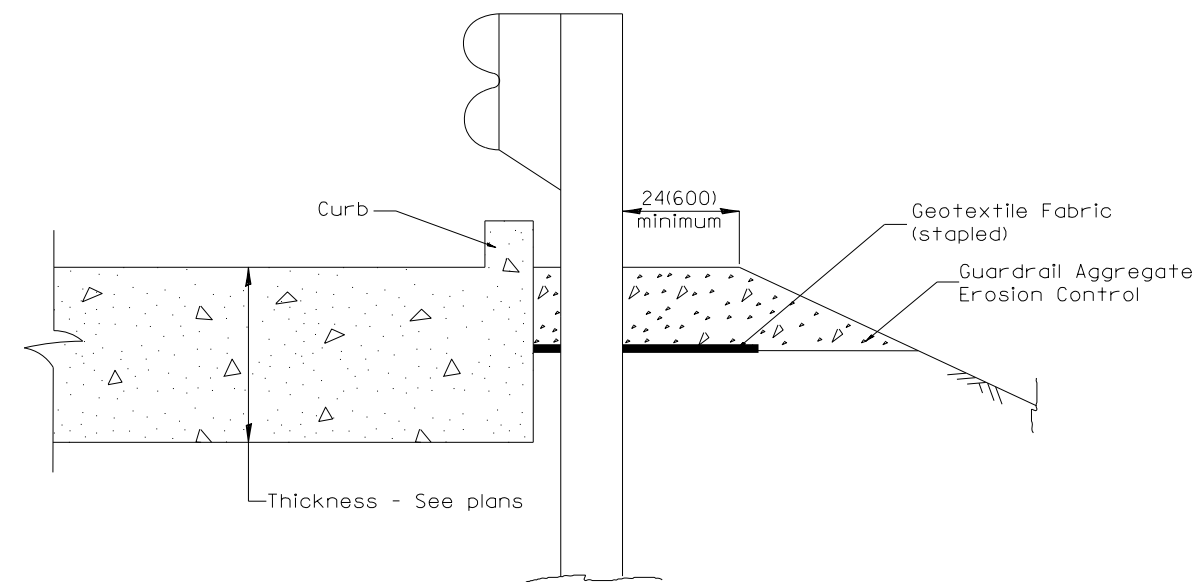
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	34
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



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



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

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	DATE - 9/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
CADD STD. 630101-D4

SCALE: NTS SHEET OF SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
ILLINOIS		FED. AID PROJECT		

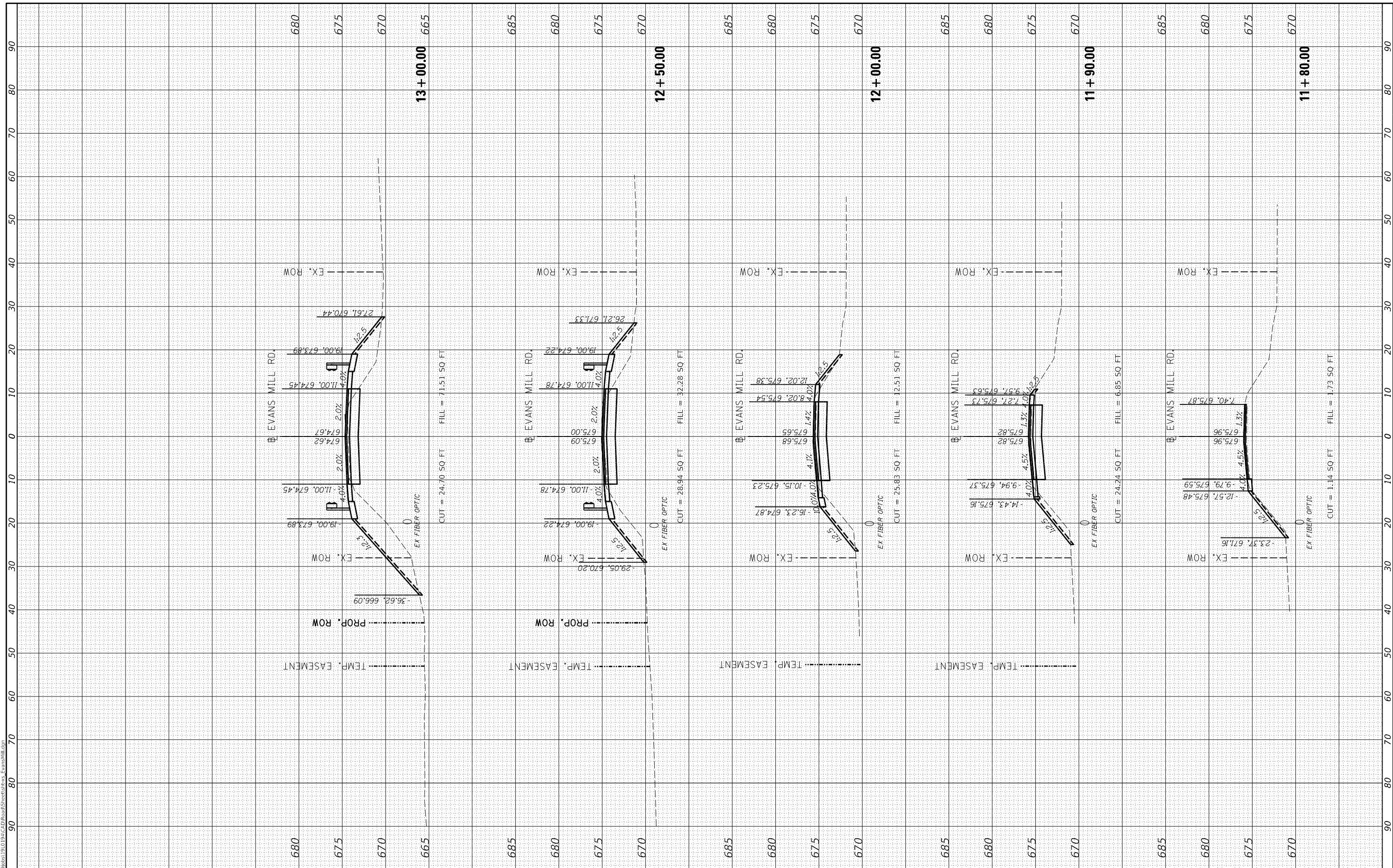
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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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DESIGNED	- RDH
DRAWN	- RLA
CHECKED	- MGD
DATE	- 9/16/2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=10' SHEET OF SHEETS STA. 11+80.00 TO STA. 13+00.00

**EVANS MILL ROAD
CROSS SECTIONS**

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	36
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

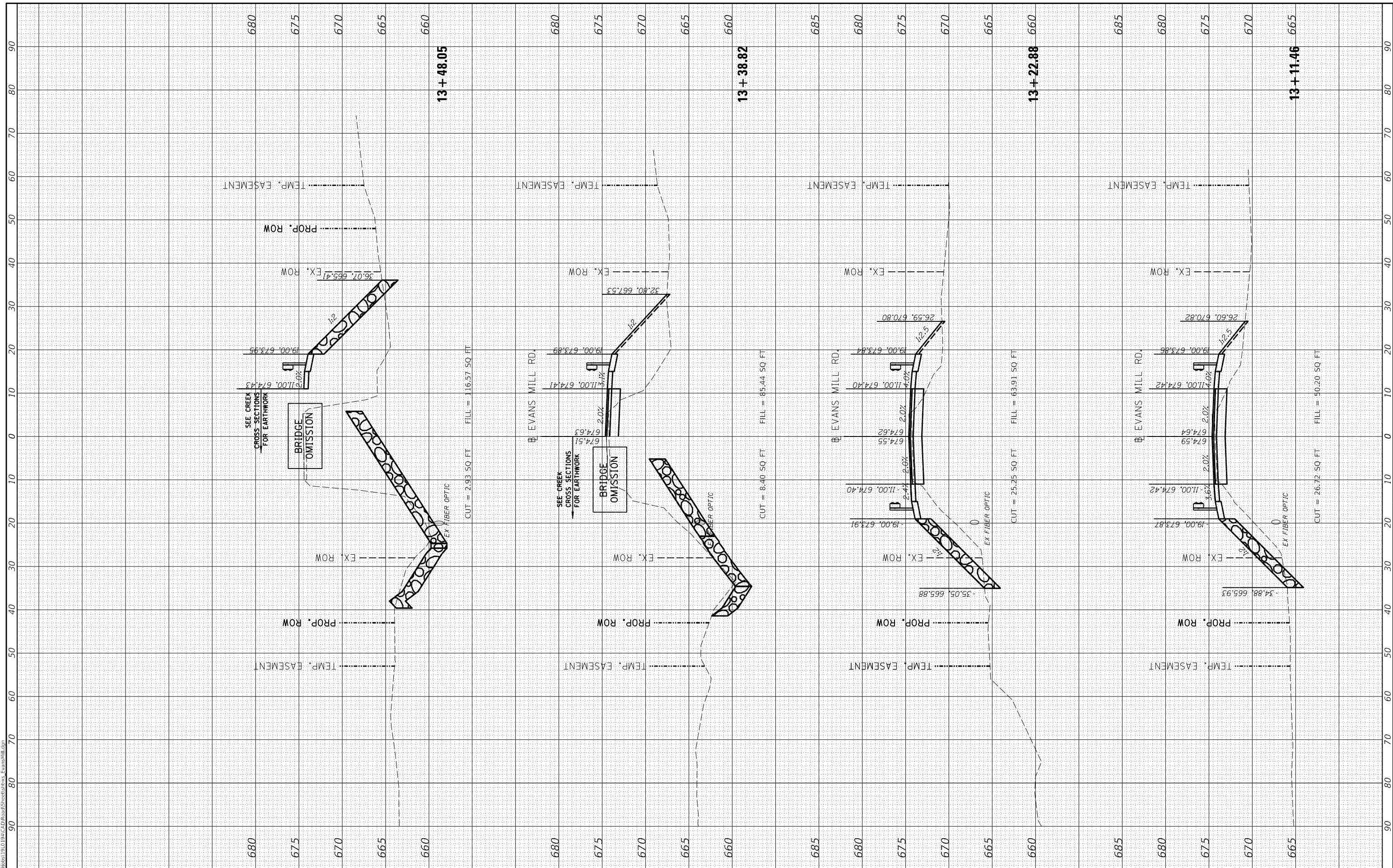
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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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

LAYOUT	RDH	8/10/2020
DRAWN	RLA	9/16/2020
REVIEWED	MGD	9/16/2020

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PLOT DATE = 9/15/2020	CHECKED - MGD	REVISED -
	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EVANS MILL ROAD
CROSS SECTIONS**

SCALE: 1" = 10' SHEET OF SHEETS STA. 13+11.46 TO STA. 13+48.05

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

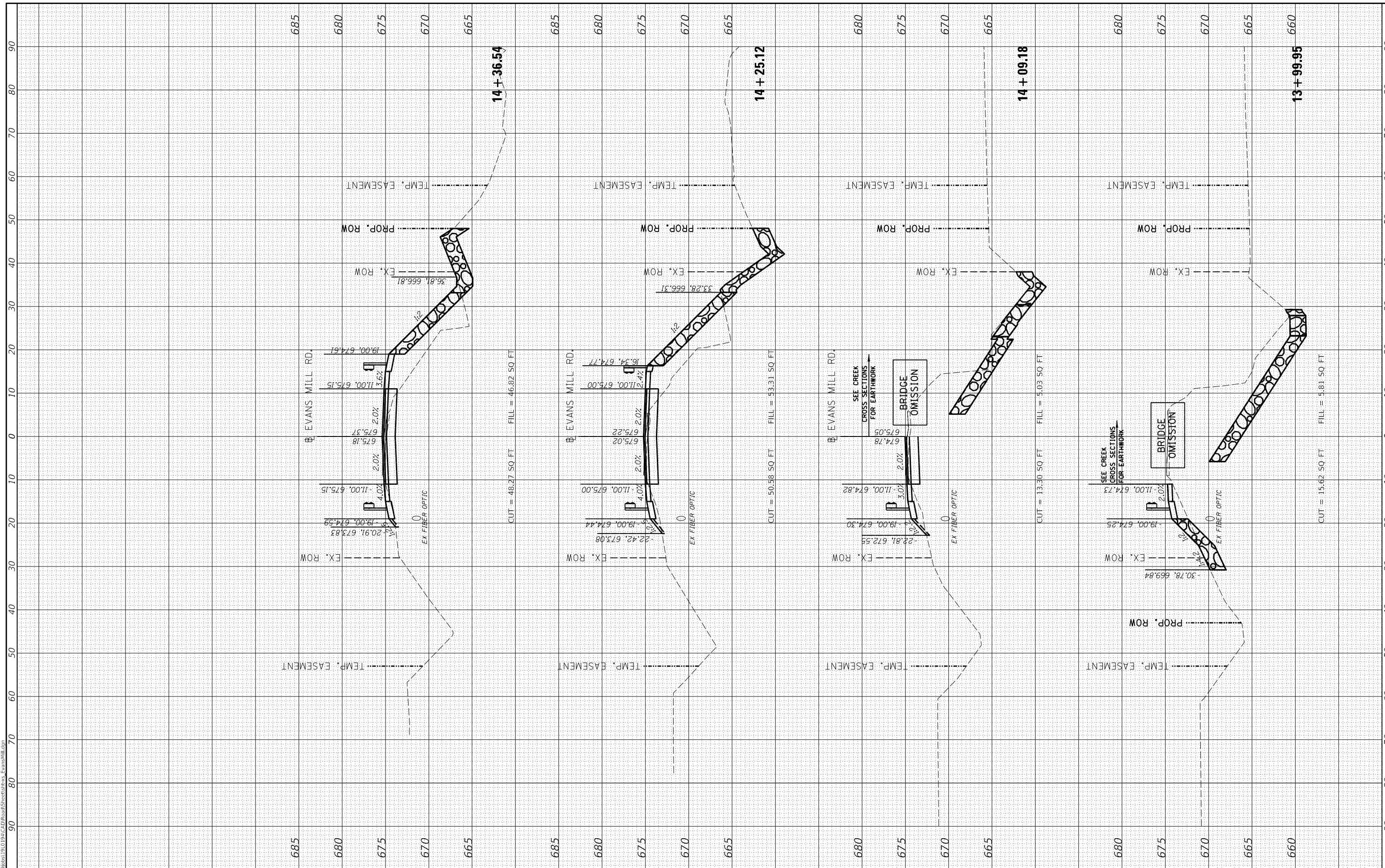
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

LAYOUT DRAWN REVIEWED	RDH RLA MGD	8/10/2020 9/16/2020 9/16/2020
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	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EVANS MILL ROAD CROSS SECTIONS	
SCALE: 1"=10'	SHEET OF SHEETS
STA. 13+99.95	TO STA. 14+36.54

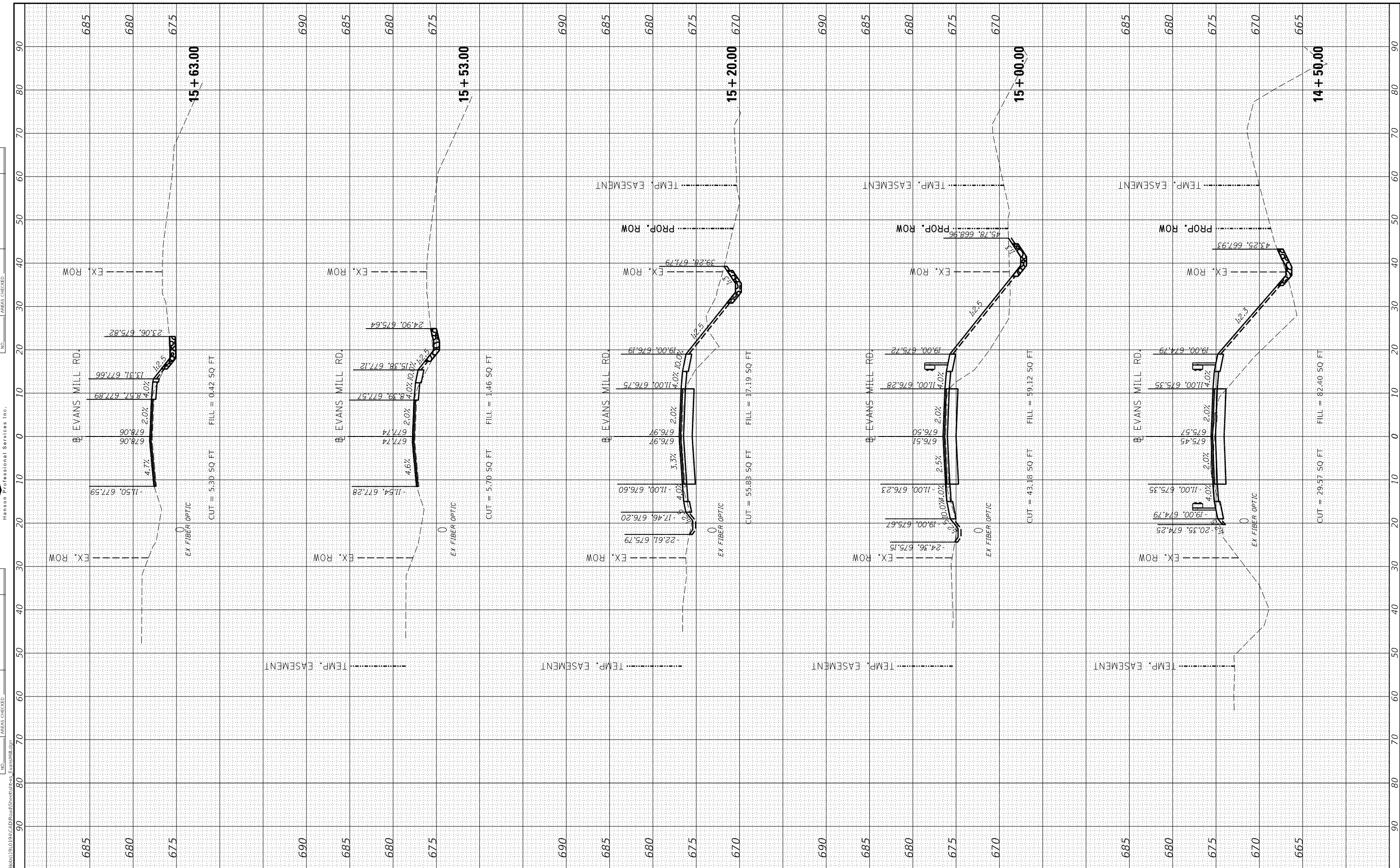
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CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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



ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	AREAS CHECKED		

LAYOUT DRAWN	RDH	8/10/2020
REVIEWED	RLA	9/16/2020
	MGD	9/16/2020



USER NAME = ande00846	DESIGNED - RDH	REVISED -
PLOT SCALE = 20.00' / in.	DRAWN - RLA	REVISED -
PLOT DATE = 9/15/2020	CHECKED - MGD	REVISED -
	DATE - 9/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 10'	SHEET	OF	SHEETS	STA. 14+50.00	TO STA. 15+63.00
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**EVANS MILL ROAD
CROSS SECTIONS**

TR RTE. 184	SECTION 17-16118-00-BR	COUNTY PEORIA	TOTAL SHEETS 42	SHEET NO. 39
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

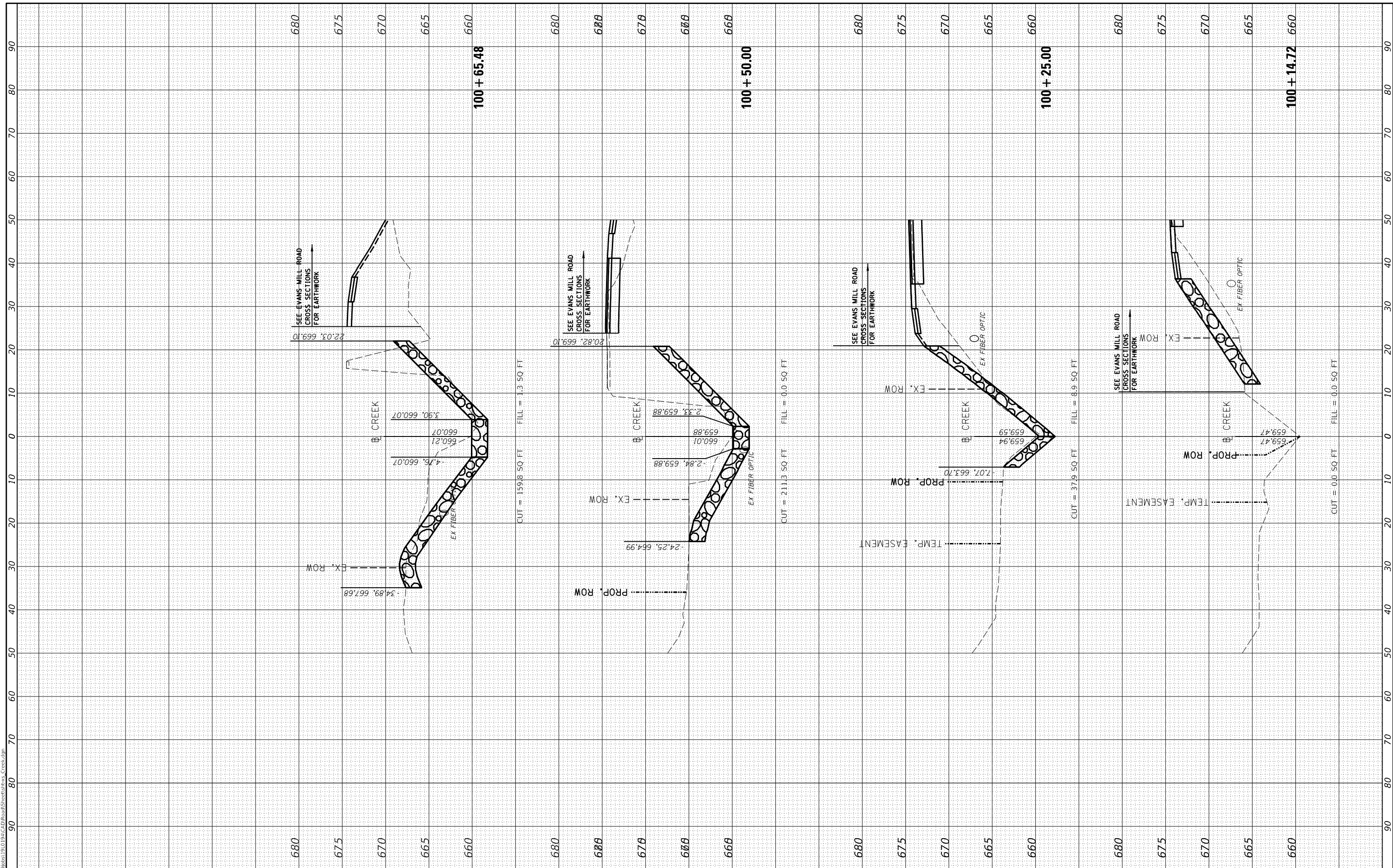
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

LAYOUT DRAWN REVIEWED	RDH RLA MGD	8/10/2020 9/16/2020 9/16/2020
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PLOT DATE = 9/15/2020	CHECKED - MGD	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EVANS MILL ROAD CREEK CROSS SECTIONS	
SCALE: 1"= 10'	SHEET OF SHEETS
STA. 100+14.72 TO STA. 100+89.68	

TR RTE. 184	SECTION 17-16118-00-BR	COUNTY PEORIA	TOTAL SHEETS 42	SHEET NO. 40
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

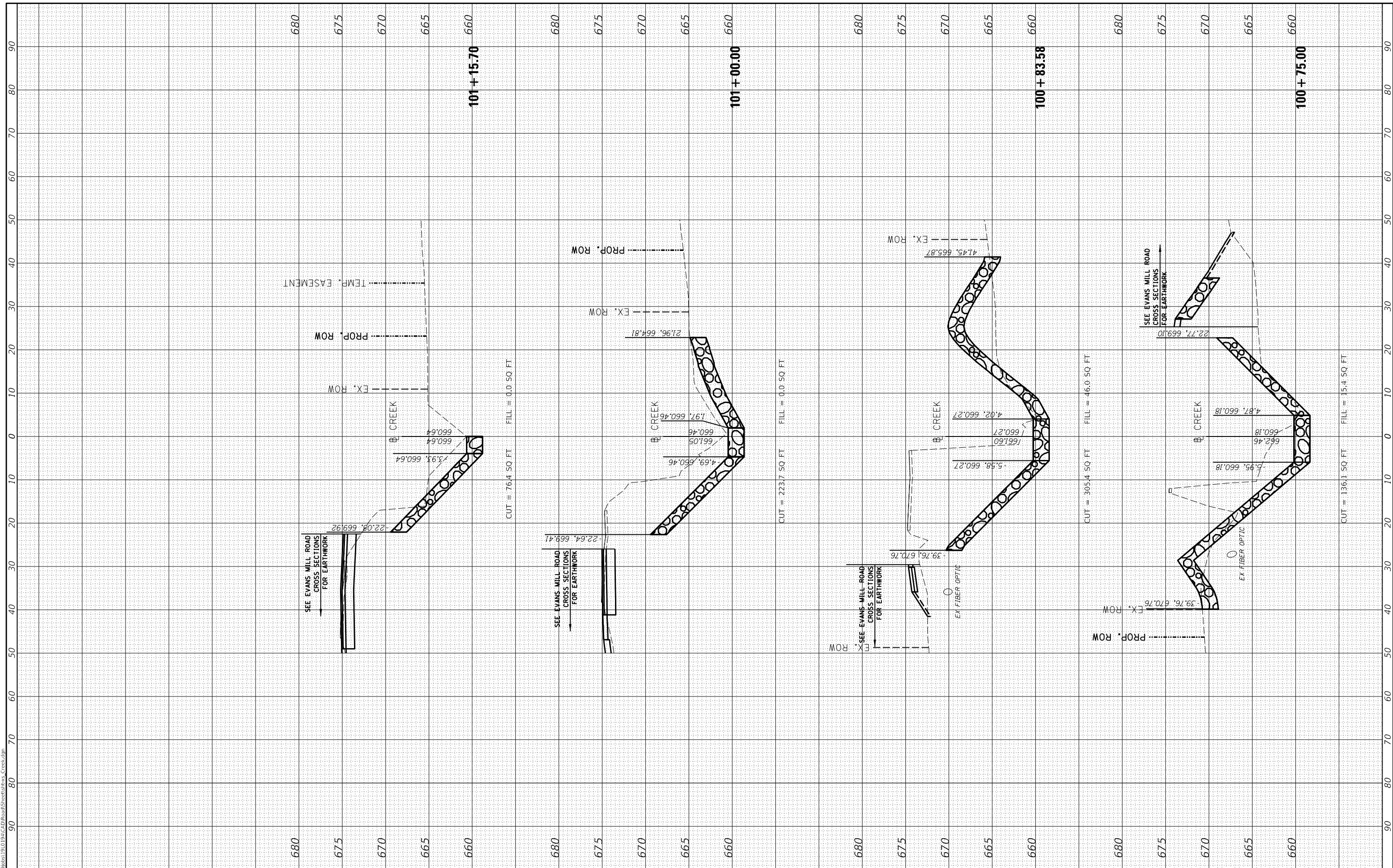
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

LAYOUT DRAWN REVIEWED	RDH RLA MGD	8/10/2020 9/16/2020 9/16/2020
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DRAWN	- RLA
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REVISIONS	
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REVISED	-


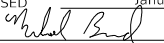
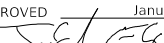
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EVANS MILL ROAD
CREEK CROSS SECTIONS**

SCALE: 1"= 10' SHEET OF SHEETS STA. 100+75.00 TO STA. 101+15.70

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	17-16118-00-BR	PEORIA	42	41
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

ABV	ABOVE	CU YD	CUBIC YARD	HATCH	HATCHING	PM	PAVEMENT MARKING	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HD	HEAD	PED	PEDESTAL	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDW	HEADWALL	PNT	POINT	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	HDUTY	HEAVY DUTY	PC	POINT OF CURVATURE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HMA	HOT MIX ASPHALT	PRC	POINT OF REVERSE CURVE	SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HWY	HIGHWAY	PT	POINT OF TANGENCY	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HORIZ	HORIZONTAL	POT	POINT ON TANGENT	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	HSE	HOUSE	POLYETH	POLYETHYLENE	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IL	ILLINOIS	PCC	PORTLAND CEMENT CONCRETE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IMP	IMPROVEMENT	PP	POWER POLE OR PRINCIPAL POINT	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	IN DIA	INCH DIAMETER	PRM	PRIME	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INL	INLET	PE	PRIVATE ENTRANCE	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	INST	INSTALLATION	PROF	PROFILE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	IDS	INTERSECTION DESIGN STUDY	PGL	PROFILE GRADELINE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	INV	INVERT	PROJ	PROJECT	TEL	TELEPHONE
B	BARN	EA	EACH	IP	IRON PIPE	P.C.	PROPERTY CORNER	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	IR	IRON ROD	PL	PROPERTY LINE	TP	TELEPHONE POLE
BL	BASELINE	EOP	EDGE OF PAVEMENT	JT	JOINT	PR	PROPOSED	TEMP	TEMPORARY
BGN	BEGIN	E-CL	EDGE TO CENTERLINE	kg	KILOGRAM	R	RADIUS or RESIDENTIAL	TBM	TEMPORARY BENCH MARK
BM	BENCHMARK	E-E	EDGE TO EDGE	km	KILOMETER	RR	RAILROAD	TD	TILE DRAIN
BIND	BINDER	ELEC	ELECTRICAL	LS	LANDSCAPING	RRS	RAILROAD SPIKE	TBE	TO BE EXTENDED
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RPS	REFERENCE POINT STAKE	TBR	TO BE REMOVED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	REF	REFLECTIVE	TBS	TO BE SAVED
BLVD	BOULEVARD	EXC	EXCAVATION	LIDAR	LIGHT DETECTION AND RANGING	RCCP	REINFORCED CONCRETE CULVERT PIPE	TWP	TOWNSHIP
BRK	BRICK	EX	EXISTING	LP	LIGHT POLE	REINF	REINFORCEMENT	TR	TOWNSHIP ROAD
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LGT	LIGHTING	REM	REMOVAL	TS	TRAFFIC SIGNAL
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	LF	LINEAL FEET OR LINEAR FEET	RC	REMOVE CROWN	TSCB	TRAFFIC SIGNAL CONTROL BOX
CATV	CABLE	E	OFFSET DISTANCE TO VERTICAL CURVE	L	LITER OR CURVE LENGTH	REP	REPLACEMENT	TSC	TRAFFIC SYSTEMS CENTER
CIP	CAST IRON PIPE	F-F	FACE TO FACE	LC	LONG CHORD	REST	RESTAURANT	TRVS	TRANSVERSE
CB	CATCH BASIN	FA	FEDERAL AID	LNG	LONGITUDINAL	RESURF	RESURFACING	TRVL	TRAVEL
C-C	CENTER TO CENTER	FAI	FEDERAL AID INTERSTATE	L SUM	LUMP SUM	RET	RETAINING	TRN	TURN
CL	CENTERLINE OR CLEARANCE	FAP	FEDERAL AID PRIMARY	MACH	MACHINE	RT	RIGHT	TY	TYPE
CL-E	CENTERLINE TO EDGE	FAS	FEDERAL AID SECONDARY	MB	MAIL BOX	ROW	RIGHT-OF-WAY	T-A	TYPE A
CL-F	CENTERLINE TO FACE	FAUS	FEDERAL AID URBAN SECONDARY	MH	MANHOLE	RD	ROAD	TYP	TYPICAL
CTS	CENTERS	FP	FENCE POST	MATL	MATERIAL	RDWY	ROADWAY	UNDGND	UNDERGROUND
CERT	CERTIFIED	OPT	FIBER OPTIC	MED	MEDIAN	RTE	ROUTE	USGS	U.S. GEOLOGICAL SURVEY
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	SAN	SANITARY	USEL	UPSTREAM ELEVATION
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	SANS	SANITARY SEWER	USFL	UPSTREAM FLOWLINE
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SEC	SECTION	UTIL	UTILITY
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SEED	SEEDING	VBOX	VALVE BOX
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SHAP	SHAPING	VV	VALVE VAULT
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	S	SHED	VL	VAULT
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	SH	SHEET	VEH	VEHICLE
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	SHLD	SHOULDER	VP	VENT PIPE
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SW	SIDEWALK OR SOUTHWEST	VERT	VERTICAL
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SIG	SIGNAL	VC	VERTICAL CURVE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SOD	SODDING	VPC	VERTICAL POINT OF CURVATURE
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SM	SOLID MEDIUM	VPI	VERTICAL POINT OF INTERSECTION
CONT	CONTINUOUS	GV	GAS VALVE	NC	NORMAL CROWN	SB	SOUTHBOUND	VPT	VERTICAL POINT OF TANGENCY
COR	CORNER	GIS	GEOGRAPHICAL INFORMATION SYSTEM	NB	NORTHBOUND	SE	SOUTHEAST	WM	WATER METER
CORR	CORRUGATED	GRAN	GRANULAR	NE	NORTHEAST	SPL	SPECIAL	WV	WATER VALVE
CMP	CORRUGATED METAL PIPE	GR	GRATE	NW	NORTHWEST	SD	SPECIAL DITCH	WMAIN	WATER MAIN
CNTY	COUNTY	GRVL	GRAVEL	O/S	OFFSET	SQ FT	SQUARE FEET	WB	WESTBOUND
CH	COUNTY HIGHWAY	GND	GROUND	O&C	OIL AND CHIP	m ²	SQUARE METER	WILDFL	WILDFLOWERS
CSE	COURSE	GUT	GUTTER	OLID	OPEN LID	mm ²	SQUARE MILLIMETER	W	WITH
XSECT	CROSS SECTION	GP	GUY POLE	PAT	PATTERN	SQ YD	SQUARE YARD	WO	WITHOUT
m ³	CUBIC METER	GW	GUY WIRE	PVD	PAVED	STB	STABILIZED		
mm ³	CUBIC MILLIMETER	HH	HANDHOLE	PVMT	PAVEMENT				

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APPROVED <u> </u> January 1, <u> </u> 2021  ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-21	Updated fonts, abbreviations and symbols.
1-1-19	Added new symbols.

**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**


(Sheet 1 of 9)

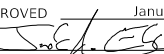
STANDARD 000001-08

<u>ADJUSTMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>ALIGNMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>DRAINAGE ITEMS</u>		<u>EX</u>	<u>PR</u>
Structure To Be Adjusted			ADJ	Baseline	_____	_____		Channel or Stream Line	-----	-----	
Structure To Be Cleaned			C	Centerline	-----	-----		Culvert Line	-----	-----	
Main Structure To Be Filled			FM	Centerline Break Circle	o	o		Grading & Shaping Ditches	-----	-----	
Structure To Be Filled			F	Baseline Symbol	BL	BL		Drainage Boundary Line	////	////	
Structure To Be Filled Special			FSP	Centerline Symbol	CL	CL		Paved Ditch	-----	-----	
Structure To Be Removed			R	PI Indicator	Δ	Δ		Aggregate Ditch	-----	-----	
Structure To Be Reconstructed			REC	Point Indicator	o	o		Pipe Underdrain	-----	-----	
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=		Storm Sewer	-----	-----	
Frame and Grate To Be Adjusted			A	<u>BOUNDARIES ITEMS</u>		<u>EX</u>	<u>PR</u>	Flowline	FL	FL	
Frame and Lid To Be Adjusted			A	Dashed Property Line	-----	-----		Ditch Check	◆	◆	
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line	_____	_____		Headwall	-	∩	
Valve Vault To Be Adjusted			A	Section/Grant Line	-----	-----		Inlet	□	■	
Special Adjustment			SP	Quarter Section Line	-----	-----		Manhole	⊙	⊙	
Item To Be Abandoned			AB	Quarter/Quarter Section Line	-----	-----		Summit	↔	↔	
Item To Be Moved			M	County/Township Line	-----	-----		Roadway Ditch Flow	~→	~→	
Item To Be Relocated			REL	State Line	-----	-----		Swale	→	→	
Pavement Removal and Replacement				Chiseled Square Found	□	□		Catch Basin	○	●	
				Iron Pipe Found	○	●		Culvert End Section	◁	◁	
				Iron Pipe Set	●	●		Water Surface Indicator	▽	▽	
				Survey Marker	◐	◐		Riprap	▒	▒	
				Property Line Symbol	PL	PL		<u>HYDRAULICS ITEMS</u>		<u>EX</u>	<u>PR</u>
				Same Ownership Symbol (Half Size)	↗	↗		Overflow	↪	↪	
				Northwest Quarter Corner (Half Size)	⊙	⊙		Sheet Flow	→	→	
				Section Corner (Half Size)	⊙	⊙		Hydrant Outlet	→	→	
				Southeast Quarter Corner (Half Size)	⊙	⊙					

**STANDARD SYMBOLS,
ABBREVIATIONS
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(Sheet 2 of 9)
STANDARD 000001-08

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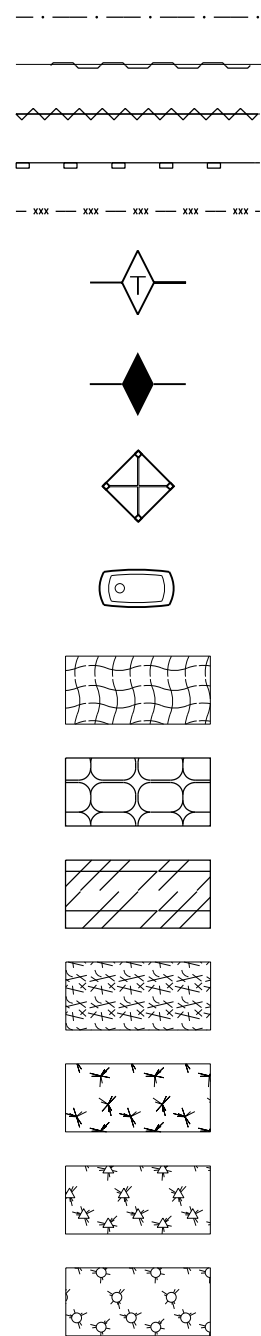
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EROSION & SEDIMENT CONTROL ITEMS

EX

PR

- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence
- Ditch Check Temporary
- Ditch Check Permanent
- Inlet & Pipe Protection
- Sediment Basin
- Erosion Control Blanket
- Fabric Formed Concrete Revetment Mat
- Turf Reinforcement Mat
- Mulch Temporary
- Mulch Method 1
- Mulch Method 2 Stabilized
- Mulch Method 3 Hydraulic

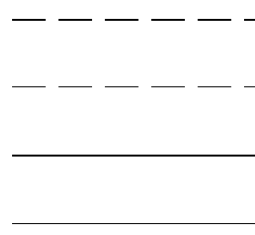


CONTOUR ITEMS

EX

PR

- Approx. Index Line
- Approx. Intermediate Line
- Index Contour
- Intermediate Contour

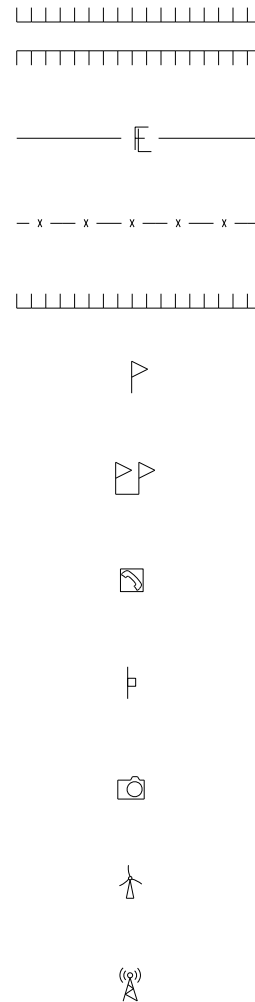


NON-HIGHWAY IMPROVEMENT ITEMS

EX

PR

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign
- ITS* Camera
- Wind Turbine
- Cellular Tower



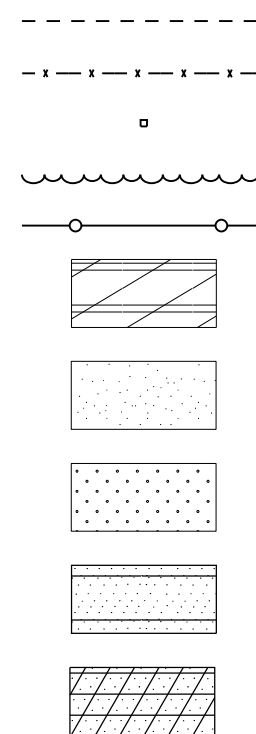
*Intelligent Transportation Systems

LANDSCAPING ITEMS

EX

PR

- Contour Mounding Line
- Fence
- Fence Post
- Shrubs
- Mowline
- Perennial Plants
- Seeding Class 2
- Seeding Class 2A
- Seeding Class 4
- Seeding Class 4 & 5 Combined

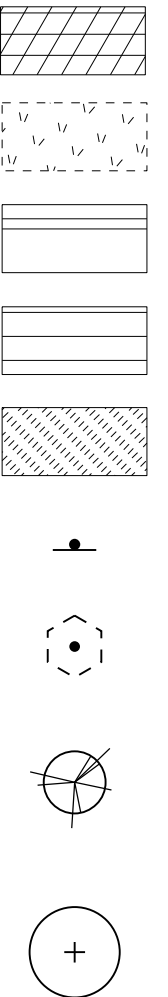


EXISTING LANDSCAPING ITEMS (contd.)

EX

PR

- Seeding Class 5
- Seeding Class 7
- Seedlings Type 1
- Seedlings Type 2
- Sodding
- Mowstake w/Sign
- Tree Trunk Protection
- Evergreen Tree
- Shade Tree

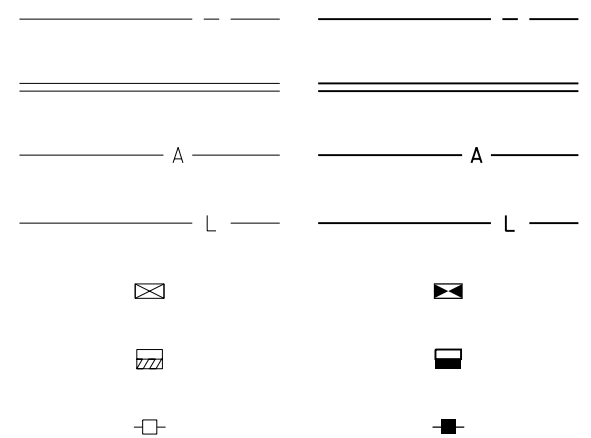


LIGHTING

EX

PR

- Duct
- Conduit
- Electrical Aerial Cable
- Electrical Buried Cable
- Controller
- Underpass Luminaire
- Power Pole



STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 3 of 9)

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**LIGHTING
(contd.)**

EX

PR

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



Traffic Flow Arrow



High Mast Pole
(Half Size)



Light Unit-1

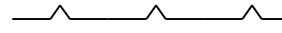


PAVEMENT (MISC.)

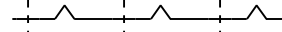
EX

PR

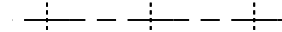
Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



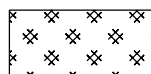
Bituminous Shoulder



Bituminous Taper



Stabilized Driveway



Widening



PAVEMENT MARKINGS

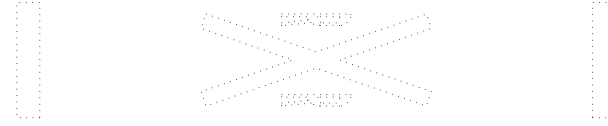
EX

PR

Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



Raised Marker Amber 2 Way



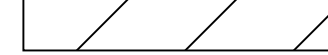
Raised Marker Crystal 1 Way



Two Way Turn Left



Shoulder Diag. Pattern



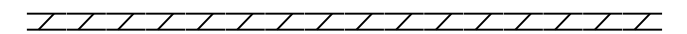
Skip-Dash White



Skip-Dash Yellow



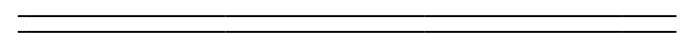
Stop Line



Solid Line



Double Centerline



Dotted Lines



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**STANDARD SYMBOLS,
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(Sheet 4 of 9)

STANDARD 000001-08

PAVEMENT MARKINGS
(contd.)

CL 2Ln 2Way
RRPM 12.2 m (40') o.c.

CL 2Ln 2Way
RRPM 80' (24.4 m) o.c.

CL Multilane Div.
RRPM 40' (12.2 m) o.c.

CL Multilane Div.
RRPM 80' (24.4 m) o.c.

CL Multilane Div. Dbl.
RRPM 80' (24.4 m) o.c.

CL Multilane Undiv.

Two Way Turn Left Line

Urban Combination Left

Urban Combination Right

Urban Left Turn Arrow

Urban Right Turn Arrow

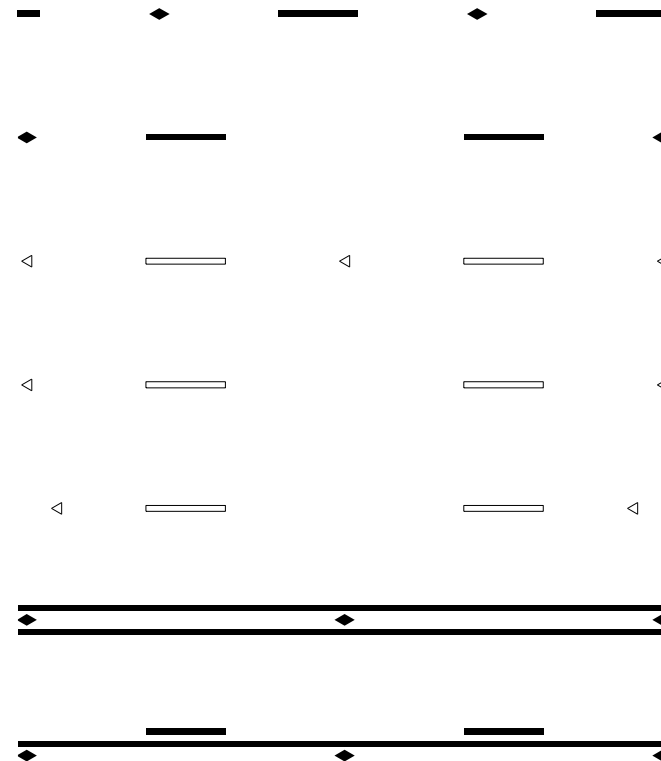
Urban Left Turn Only

Urban Right Turn Only

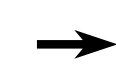
Urban Thru Only

EX

PR



ONLY
ONLY
ONLY

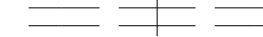


RAILROAD ITEMS

EX

PR

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck



REMOVAL ITEMS

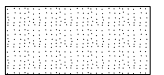
EX

PR

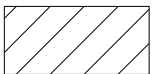
Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



RIGHT OF WAY ITEMS

EX

PR

Future ROW Corner Monument



ROW Marker



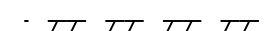
ROW Line



Easement



Temporary Easement



**STANDARD SYMBOLS,
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(Sheet 5 of 9)

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Urban LT & RT Turn Arrow

Urban Thru Arrow

PAVEMENT MARKINGS
(contd.)

EX

PR

Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



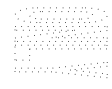
Rural Left Turn Arrow



Rural Right Turn Arrow



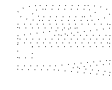
Rural Left Turn Only



ONLY ONLY ONLY



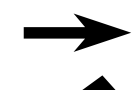
Rural Right Turn Only



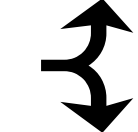
Rural Thru Only



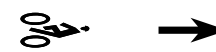
Rural Thru Arrow



Rural Lt & Rt Turn Arrow



Bike Lane Symbol



Bike Lane Text



Bike Path Shared



Bike Shared Roadway



Lane Drop Symbol



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Wrong Way Arrow



**STANDARD SYMBOLS,
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(Sheet 6 of 9)

STANDARD 000001-08

RIGHT OF WAY ITEMS
(contd.)

	EX	PR
Access Control Line	—	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— x — AC —	— x — AC — x —
Excess ROW Line		— XS —

ROADWAY PLAN
ITEMS

	EX	PR
Cable Barrier		
Concrete Barrier		
Edge of Pavement	---	---
Bit Shoulders, Medians and C&G Line	---	---
Aggregate Shoulder	---	---
Sidewalks, Driveways	---	---
Guardrail		
Guardrail Post	□	
Traffic Sign	⊥	⊥
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		STA. 45+00
Slope Limit Line	---	
Typical Cross-Section Line	---	---

ROADWAY PROFILES

	EX	PR
P.I. Indicator	△	△
Point Indicator	○	○
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side	-----	-----
Ditch Profile Right Side	-----	-----
Roadway Profile Line	-----	-----
Storm Sewer Profile Left Side	-----	-----
Storm Sewer Profile Right Side	-----	-----

SIGNING ITEMS

	EX	PR
Cone, Drum or Barricade		○
Barricade Type II		
Barricade Type III		TT
Barricade With Edge Line		
Flashing Light Sign		○
Panels I		
Panels II		
Direction of Traffic		➔
Sign Flag (Half Size)		◇

SIGNING ITEMS
(contd.)

	EX	PR
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		
Left Lane Closed Ahead W20-5L(O) (Half Size)		
Right Lane Closed Ahead W20-5R(O) (Half Size)		
Road Closed Ahead W20-3(O) (Half Size)		
Road Construction Ahead W20-1(O) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

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**STANDARD SYMBOLS,
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(Sheet 7 of 9)

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SIGNING ITEMS
(contd.)

EX

PR

One Way Arrow Lrg. W1-6-(O)
(Half Size)



Two Way Arrow Large W1-7-(O)
(Half Size)



Detour M4-10L-(O)
(Half Size)



Detour M4-10R-(O)
(Half Size)



One Way Left R6-1L
(Half Size)



One Way Right R6-1R
(Half Size)



Left Turn Lane R3-I100L
(Half Size)



Keep Left R4-7AL
(Half Size)



Keep Left R4-7BL
(Half Size)



Keep Right R4-7AR
(Half Size)



Keep Right R4-7BR
(Half Size)



Stop Here On Red R10-6-AL
(Half Size)



Stop Here On Red R10-6-AR
(Half Size)



No Left Turn R3-2
(Half Size)



No Right Turn R3-1
(Half Size)



Road Closed R11-2
(Half Size)



Road Closed Thru Traffic R11-2
(Half Size)

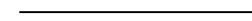


STRUCTURES ITEMS

EX

PR

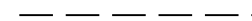
Box Culvert Barrel



Box Culvert Headwall



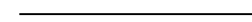
Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



TRAFFIC SHEET
ITEMS

EX

PR

Cable Number



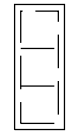
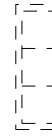
Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



TRAFFIC SIGNAL
ITEMS

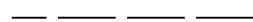
EX

PR

Galv. Steel Conduit



Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



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ABBREVIATIONS
AND PATTERNS**
(Sheet 8 of 9)

STANDARD 000001-08

TRAFFIC SIGNAL ITEMS (contd.)

EX

PR

Detector Raceway



Aluminum Mast Arm



Steel Mast Arm



Veh. Detector Magnetic



Conduit Splice



Controller



Gulfbox Junction



Wood Pole



Temp. Signal Head



Handhole



Double Handhole



Heavy Duty Handhole



Junction Box



Ped. Pushbutton Detector



Ped. Signal Head



Power Pole Service



Priority Veh. Detector



Signal Head



Signal Head w/Backplate



Signal Post



Closed Circuit TV



Video Detector System



UNDERGROUND UTILITY ITEMS

EX

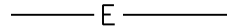
PR

ABANDONED

Cable TV



Electric Cable



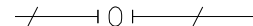
Fiber Optic



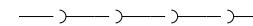
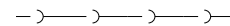
Gas Pipe



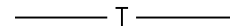
Oil Pipe



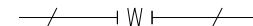
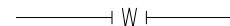
Sanitary Sewer



Telephone Cable



Water Pipe



UTILITIES ITEMS

EX

PR

Controller



Double Handhole



Fire Hydrant



GuyWire or Deadman Anchor



Handhole



Heavy Duty Handhole



Junction Box



Light Pole



Manhole



Monitoring Well (Gasoline)



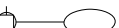
Pipeline Warning Sign



Power Pole



Power Pole with Light



Sanitary Sewer Cleanout



Splice Box Above Ground



Telephone Splice Box Above Ground



Telephone Pole



UTILITY ITEMS (contd.)

EX

PR

Traffic Signal



Traffic Signal Control Box



Water Meter



Water Meter Valve Box



Profile Line



Aerial Power Line



VEGETATION ITEMS

EX

PR

Deciduous Tree



Bush or Shrub



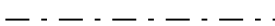
Evergreen Tree



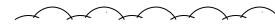
Stump



Orchard/Nursery Line



Vegetation Line



Woods & Bush Line

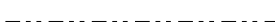


WATER FEATURE ITEMS

EX

PR

Stream or Drainage Ditch



Waters Edge



Water Surface Indicator



Water Point



Disappearing Ditch



Marsh



Marsh/Swamp Boundary



Illinois Department of Transportation

PASSED January 1, 2021
Michael Bond
 ENGINEER OF POLICY AND PROCEDURES


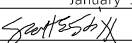
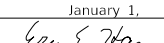
APPROVED January 1, 2021
Joe E. Cole
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 (Sheet 9 of 9)

STANDARD 000001-08

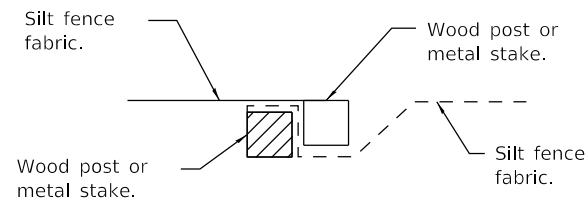
REINFORCEMENT BARS - ENGLISH (METRIC)																	
Bar Size	Dia. in. mm	Cross-Sectional Area sq. in. (sq. mm)	Weight lbs./ft. kg/m	SPACING, in. (mm)													
				4 (100)	4½ (115)	5 (125)	5½ (140)	6 (150)	6½ (165)	7 (175)	7½ (190)	8 (200)	8½ (215)	9 (225)	10 (250)	11 (275)	12 (300)
English (metric)				AREA OF STEEL PER FOOT (METER), sq. in. (sq. mm)													
3 (10)	0.375 (9.5)	0.110 (71)	0.376 (0.560)	0.330 (710)	0.293 (617)	0.264 (568)	0.240 (507)	0.220 (473)	0.203 (430)	0.189 (406)	0.176 (374)	0.165 (355)	0.155 (330)	0.147 (316)	0.132 (284)	0.120 (258)	0.110 (237)
4 (13)	0.500 (12.7)	0.196 (129)	0.668 (0.944)	0.588 (1290)	0.523 (1122)	0.470 (1032)	0.428 (921)	0.392 (860)	0.362 (782)	0.336 (737)	0.314 (679)	0.294 (645)	0.277 (600)	0.261 (573)	0.235 (516)	0.214 (469)	0.196 (430)
5 (16)	0.625 (15.9)	0.307 (199)	1.043 (1.552)	0.921 (1990)	0.819 (1730)	0.737 (1592)	0.670 (1421)	0.614 (1327)	0.567 (1206)	0.526 (1137)	0.491 (1047)	0.461 (995)	0.433 (926)	0.409 (884)	0.368 (796)	0.335 (724)	0.307 (663)
6 (19)	0.750 (19.1)	0.442 (284)	1.502 (2.235)	1.326 (2840)	1.179 (2470)	1.061 (2272)	0.964 (2029)	0.884 (1893)	0.816 (1721)	0.758 (1623)	0.707 (1495)	0.663 (1420)	0.624 (1321)	0.589 (1262)	0.530 (1136)	0.482 (1033)	0.442 (947)
7 (22)	0.875 (22.2)	0.601 (387)	2.044 (3.042)	1.803 (3870)	1.603 (3365)	1.442 (3096)	1.311 (2764)	1.202 (2580)	1.110 (2345)	1.030 (2211)	0.962 (2037)	0.902 (1935)	0.848 (1800)	0.801 (1720)	0.721 (1548)	0.656 (1407)	0.601 (1290)
8 (25)	1.000 (25.4)	0.785 (510)	2.670 (3.973)	2.355 (5100)	2.093 (4435)	1.884 (4080)	1.713 (3543)	1.570 (3400)	1.449 (3091)	1.346 (2914)	1.256 (2684)	1.178 (2550)	1.108 (2372)	1.047 (2267)	0.942 (2040)	0.856 (1855)	0.785 (1700)
9 (29)	1.128 (28.7)	1.000 (645)	3.400 (5.060)	3.000 (6450)	2.667 (5609)	2.400 (5160)	2.182 (4607)	2.000 (4300)	1.846 (3909)	1.714 (3686)	1.600 (3395)	1.500 (3225)	1.412 (3000)	1.333 (2867)	1.200 (2580)	1.091 (2345)	1.000 (2150)
10 (32)	1.270 (32.3)	1.267 (819)	4.303 (6.404)	3.801 (8190)	3.379 (7122)	3.041 (6552)	2.764 (5850)	2.534 (5460)	2.339 (4964)	2.172 (4680)	2.027 (4311)	1.901 (4095)	1.789 (3809)	1.689 (3640)	1.520 (3276)	1.382 (2978)	1.267 (2730)
11 (36)	1.410 (35.8)	1.561 (1006)	5.313 (7.907)	4.683 (10060)	4.163 (8748)	3.746 (8048)	3.406 (7186)	3.122 (6707)	2.882 (6097)	2.676 (5749)	2.498 (5295)	2.342 (5030)	2.204 (4679)	2.081 (4471)	1.873 (4024)	1.703 (3658)	1.561 (3353)


 Illinois Department of Transportation
 PASSED January 1, 2009

 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2009

 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

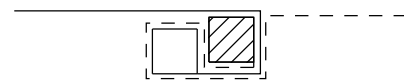
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Deleted metric table. Soft converted English table.

AREAS OF REINFORCEMENT BARS
STANDARD 001001-02



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

STEP 1

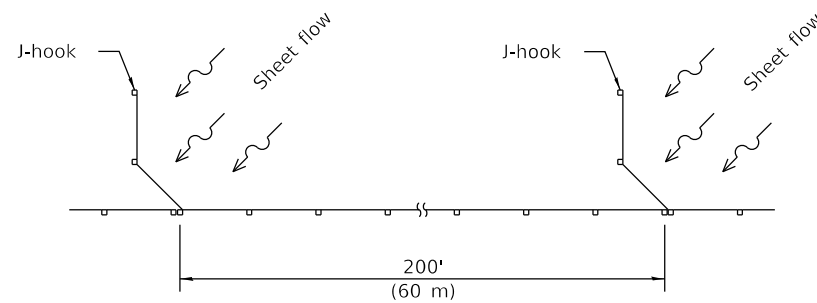


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

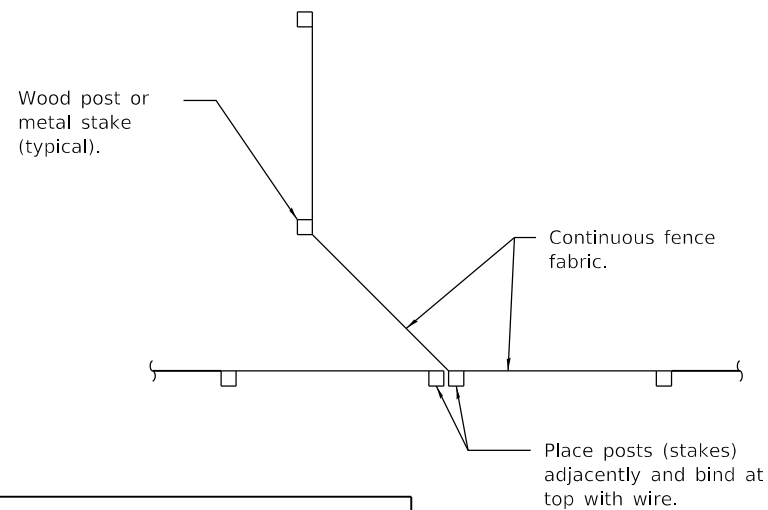
STEP 2

ATTACHING TWO SILT FILTER FENCES

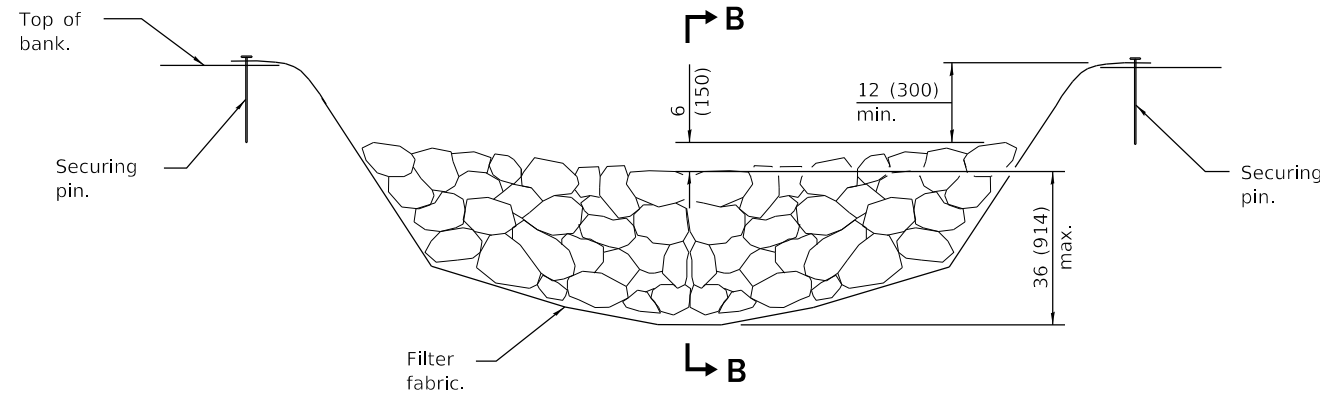
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

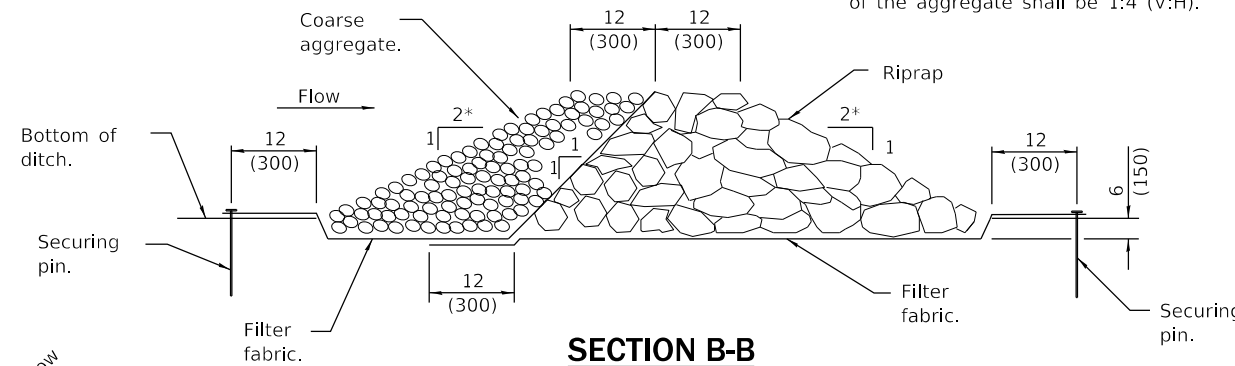


J-HOOK



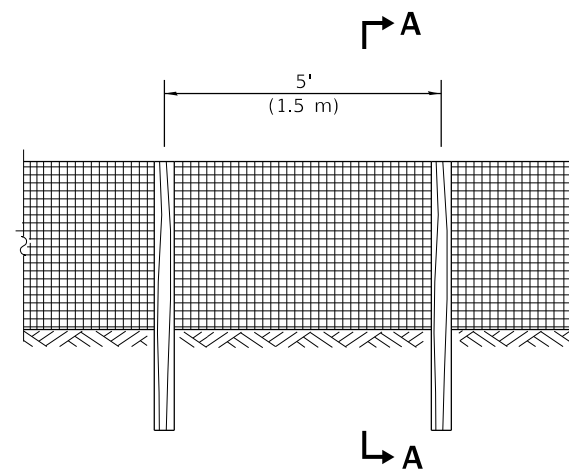
ELEVATION

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



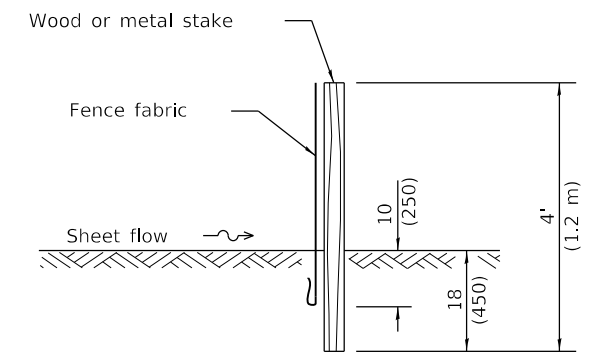
SECTION B-B

AGGREGATE DITCH CHECK

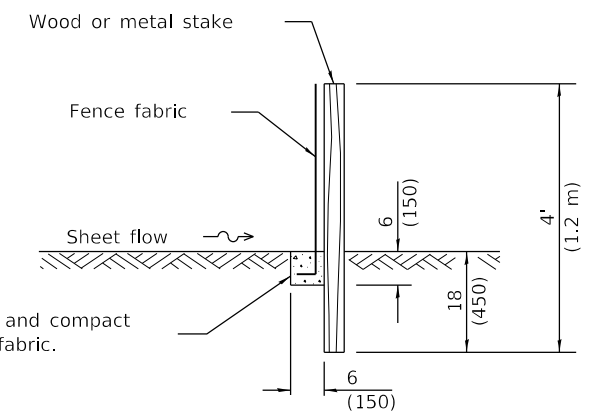


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A-A

Excavate, backfill and compact trench to secure fabric.

GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

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

Illinois Department of Transportation

PASSED January 1, 2013
Michael Beard
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

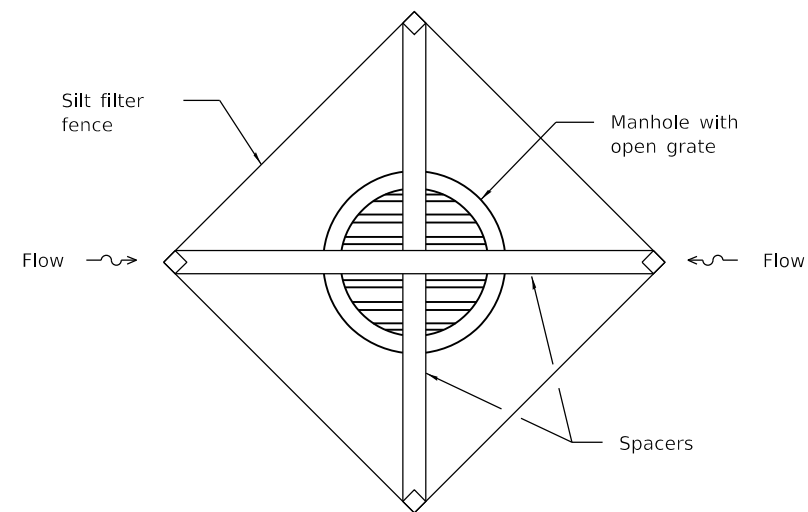
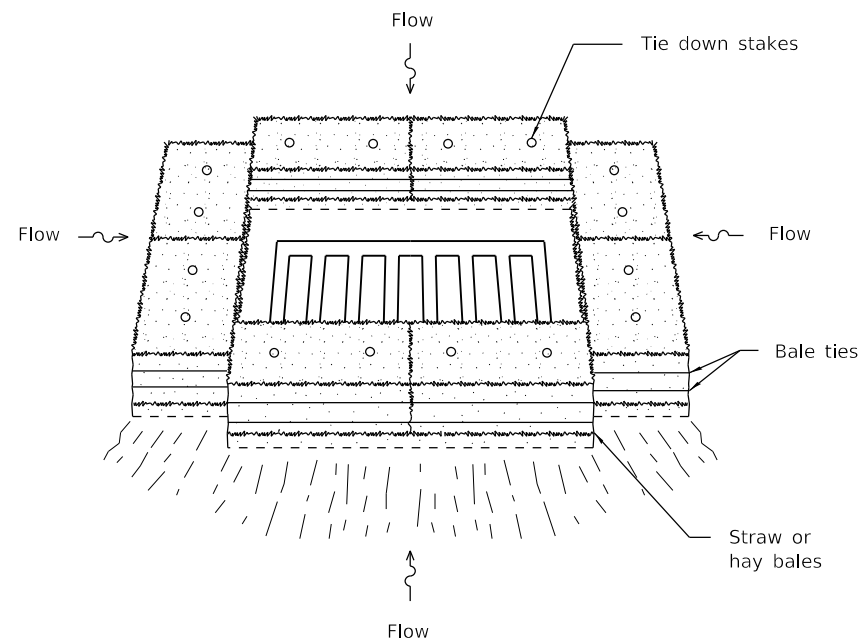
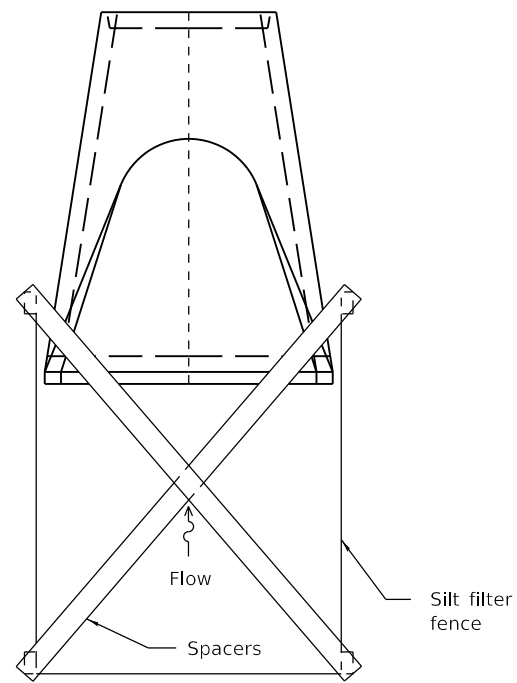
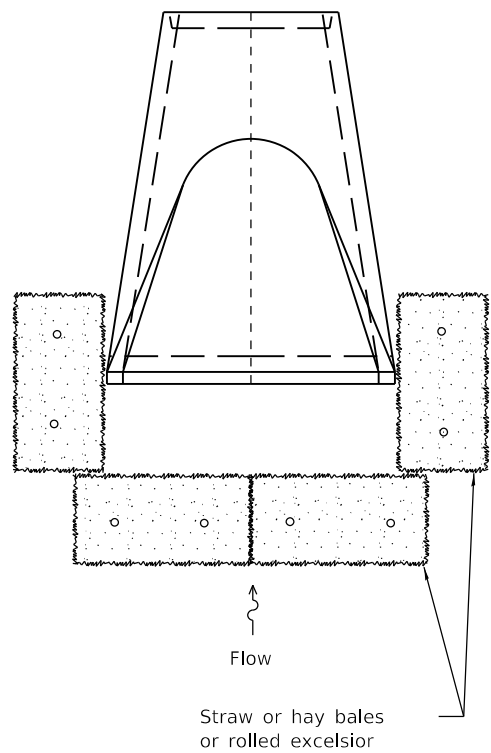
ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Corrected notation for flowline (f _l) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

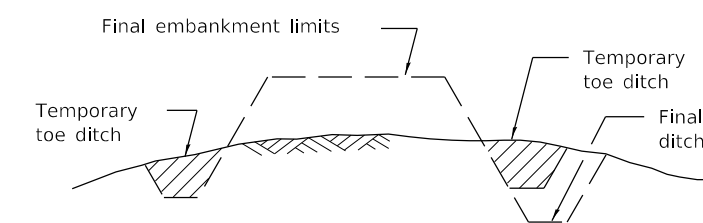
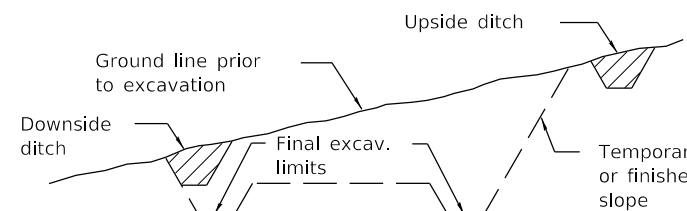
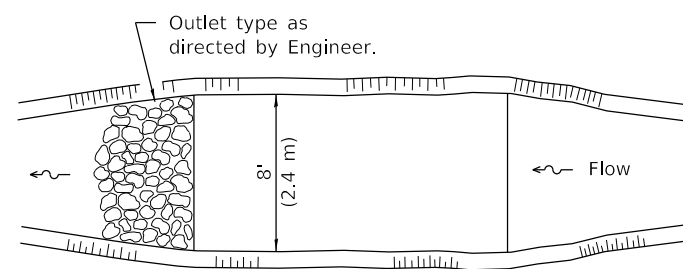
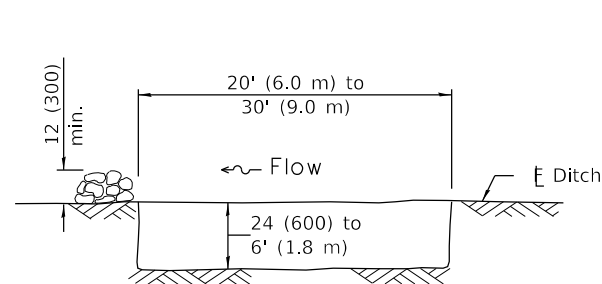
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

STANDARD 280001-07



INLET AND PIPE PROTECTION



TYPICAL CUT CROSS-SECTION

TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

The performance of the basin will improve if put into a series.

The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

ELEVATION

PLAN

SEDIMENT BASIN

Illinois Department of Transportation

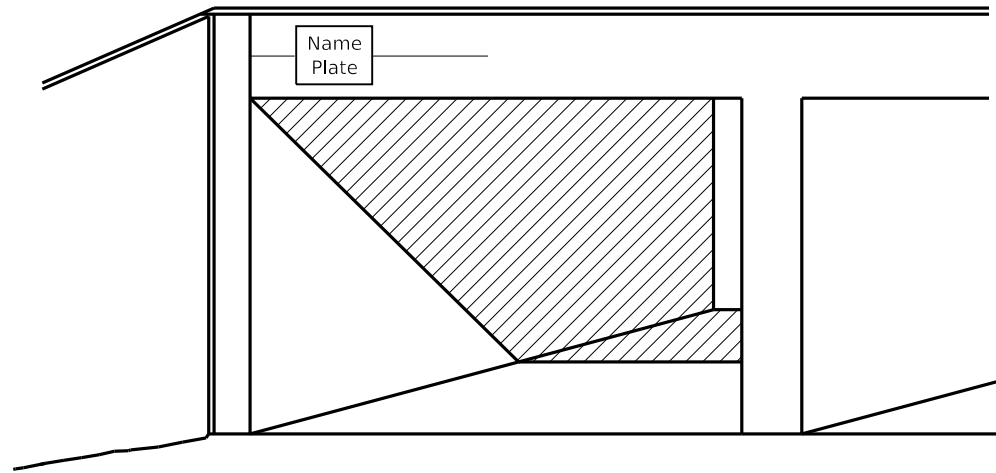
PASSED January 1, 2013
Michael Beard
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

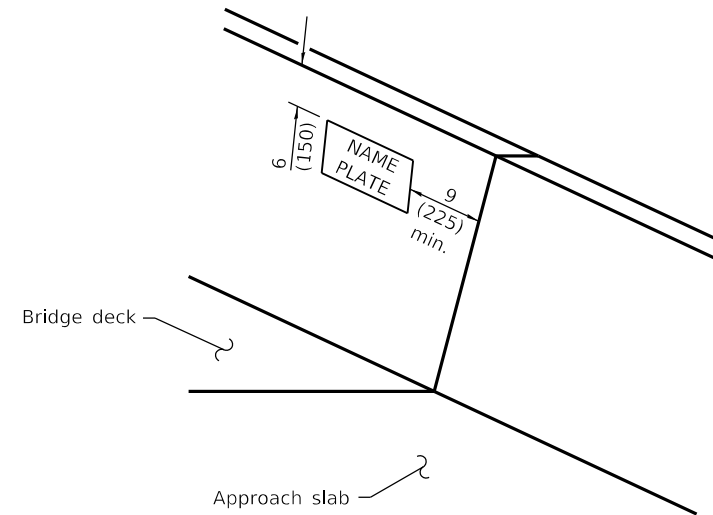
TEMPORARY EROSION CONTROL SYSTEMS
 (Sheet 2 of 2)

STANDARD 280001-07

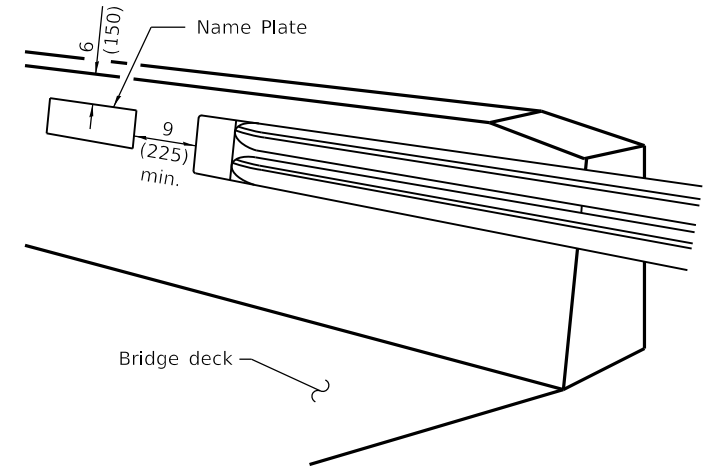


MULTI-SPAN CULVERTS

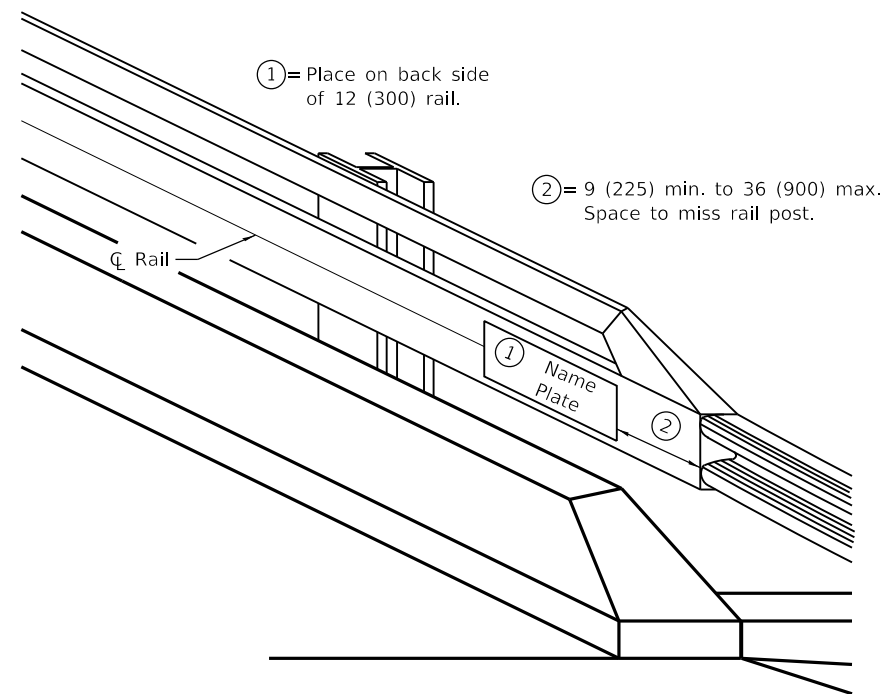
(Unless otherwise noted on the plans, name plates are not required for structures less than 20' (6.1 m) in length)



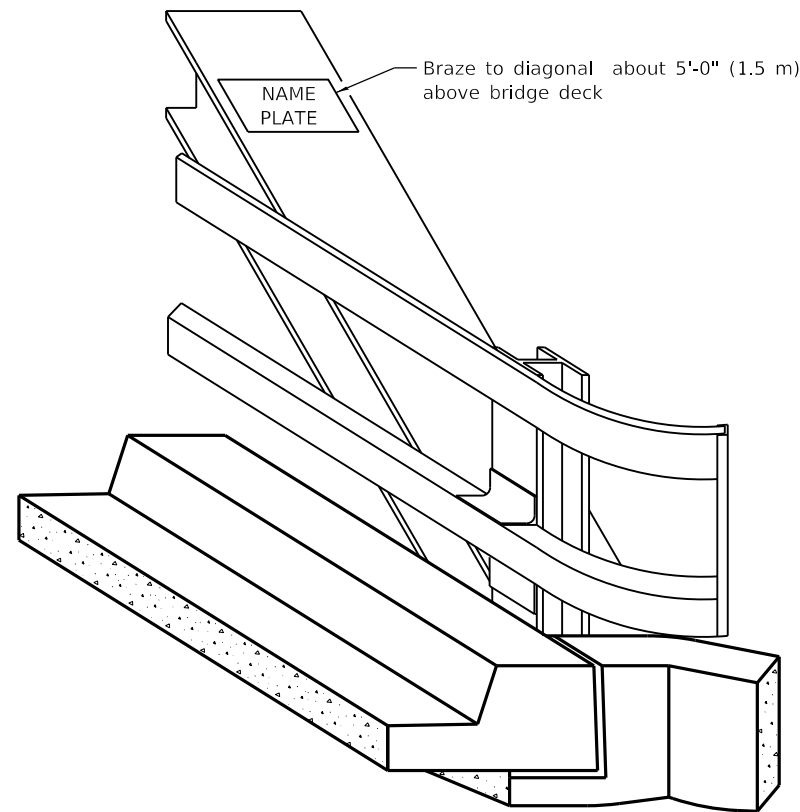
PARAPET
(Typical)



PARAPET
(Terminated at end of bridge)



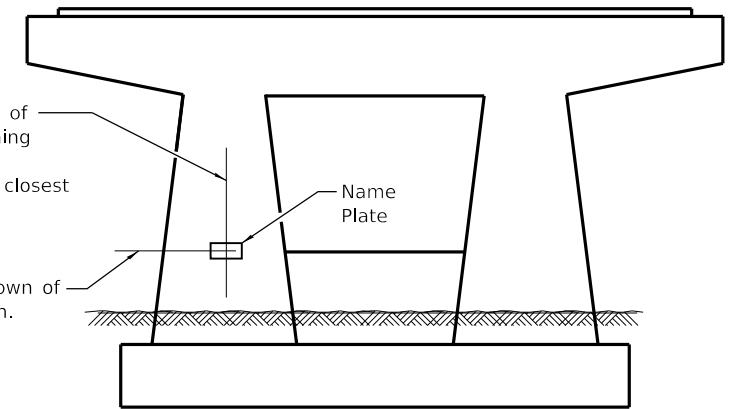
STEEL RAILS



TRUSSES

For column type piers, ϕ of column nearest approaching traffic. For solid piers, 3'-0" \pm from end of pier closest to approaching traffic.

4'-0" \pm above crown of roadway elevation.



PIERS ON FAI ROUTES

GENERAL NOTES

On one-way traffic structures, place name plate on right side of approach end. On two-way traffic structures, place name plate on right side of approach end while looking in the direction of increasing stationing.

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

Illinois Department of Transportation

APPROVED January 1, 2020
[Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2020
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

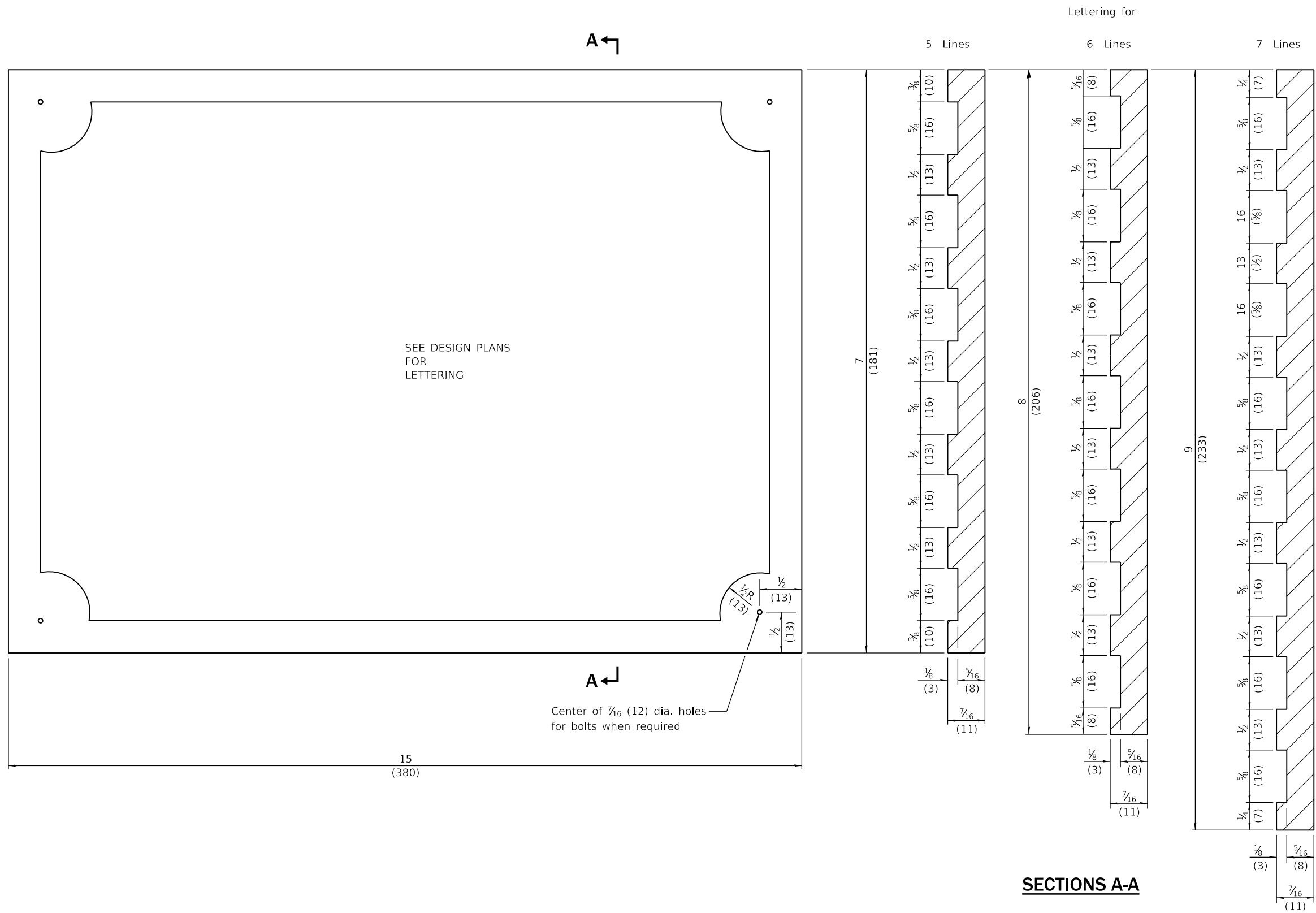
ISSUED 1-1-97

DATE	REVISIONS
1-1-20	Revised F-shape to constant slope parapet.
1-1-09	Switched units to English (metric). Added pier detail.
1-1-02	Removed Placing: note on sht. 2. Added braze note on sht. 1.

NAME PLATE FOR BRIDGES

(Sheet 1 of 2)

STANDARD 515001-04



SECTIONS A-A

NOTE
 Border and lettering:
 Raised 1/8 (3), square cut and not tapered.

**NAME PLATE
 FOR BRIDGES**

(Sheet 2 of 2)

STANDARD 515001-04

Illinois Department of Transportation

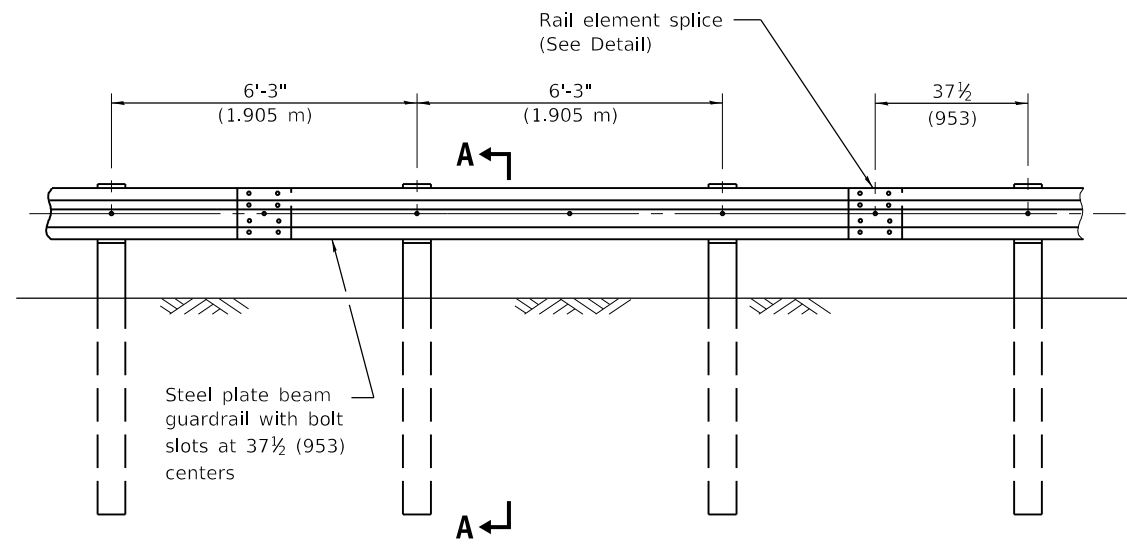
APPROVED January 1, 2020

ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

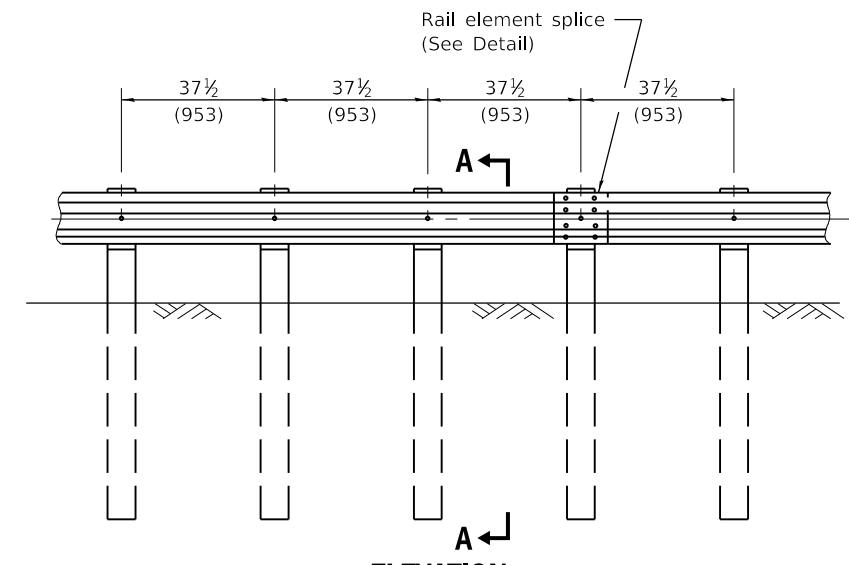
ISSUED 1-1-97



ELEVATION

TYPE A

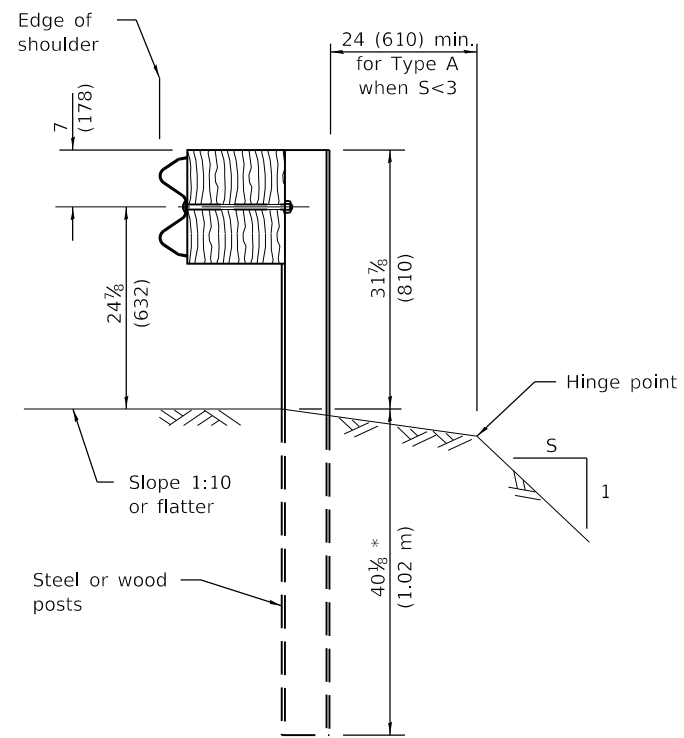
6'-3" (1.905 m) Typical post spacing



ELEVATION

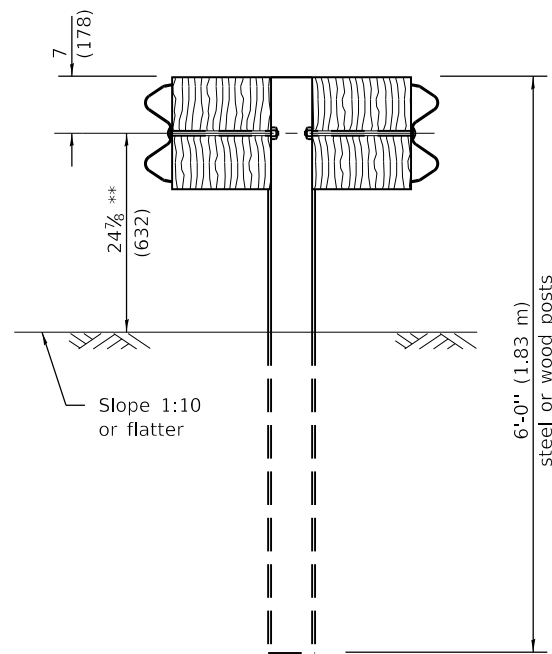
TYPE B

37 1/2 (953) Closed post spacing



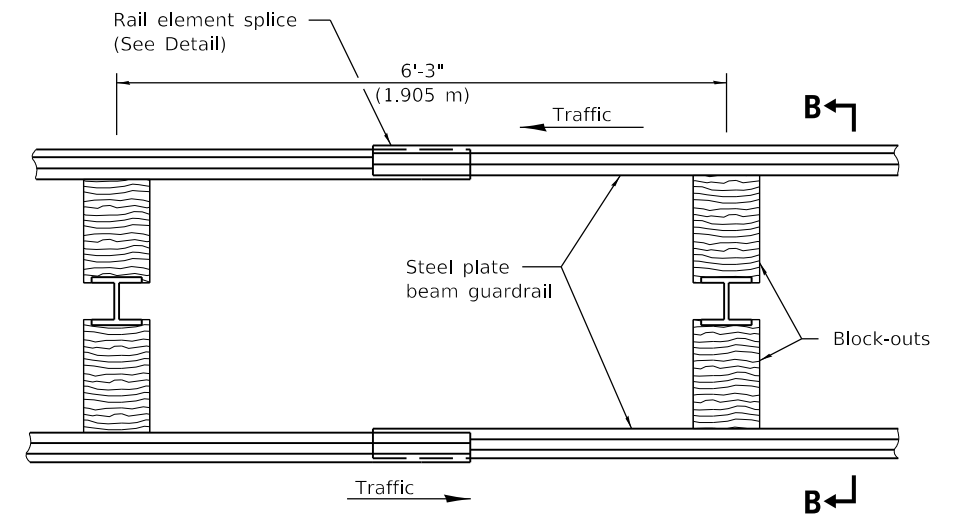
SECTION A-A

* When "S" is less than 3 and the distance from the back of post is less than 24 (610), the post shall be steel and the embedment shall be 76 1/8 (1.93 m) and the minimum top of rail height shall be 31 (787).



SECTION B-B

** When connecting Type D guardrail to an impact attenuator, adjust this dimension to match over a distance of 25'-0" (7.62 m) from point of connection if necessary.



PLAN

TYPE D

Double steel plate beam guardrail
6'-3" (1.905 m) typical post spacing

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

Illinois Department of Transportation

APPROVED January 1, 2018
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018
Marcus M. Beck
ENGINEER OF DESIGN AND ENVIRONMENT

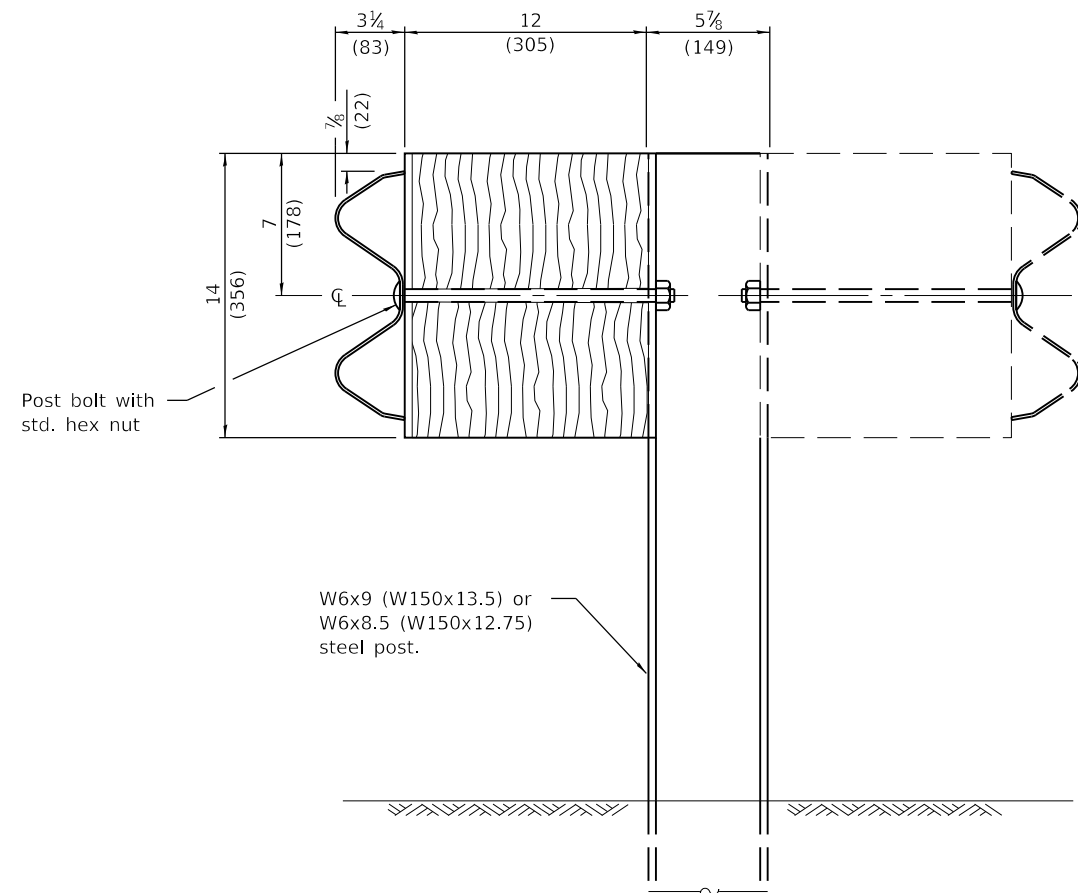
ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Revised steel post to have four holes in each flange.
1-1-17	Added detail for leave-out.
	Rev. 'D' to less than 6 (150) for guardrail behind curb.

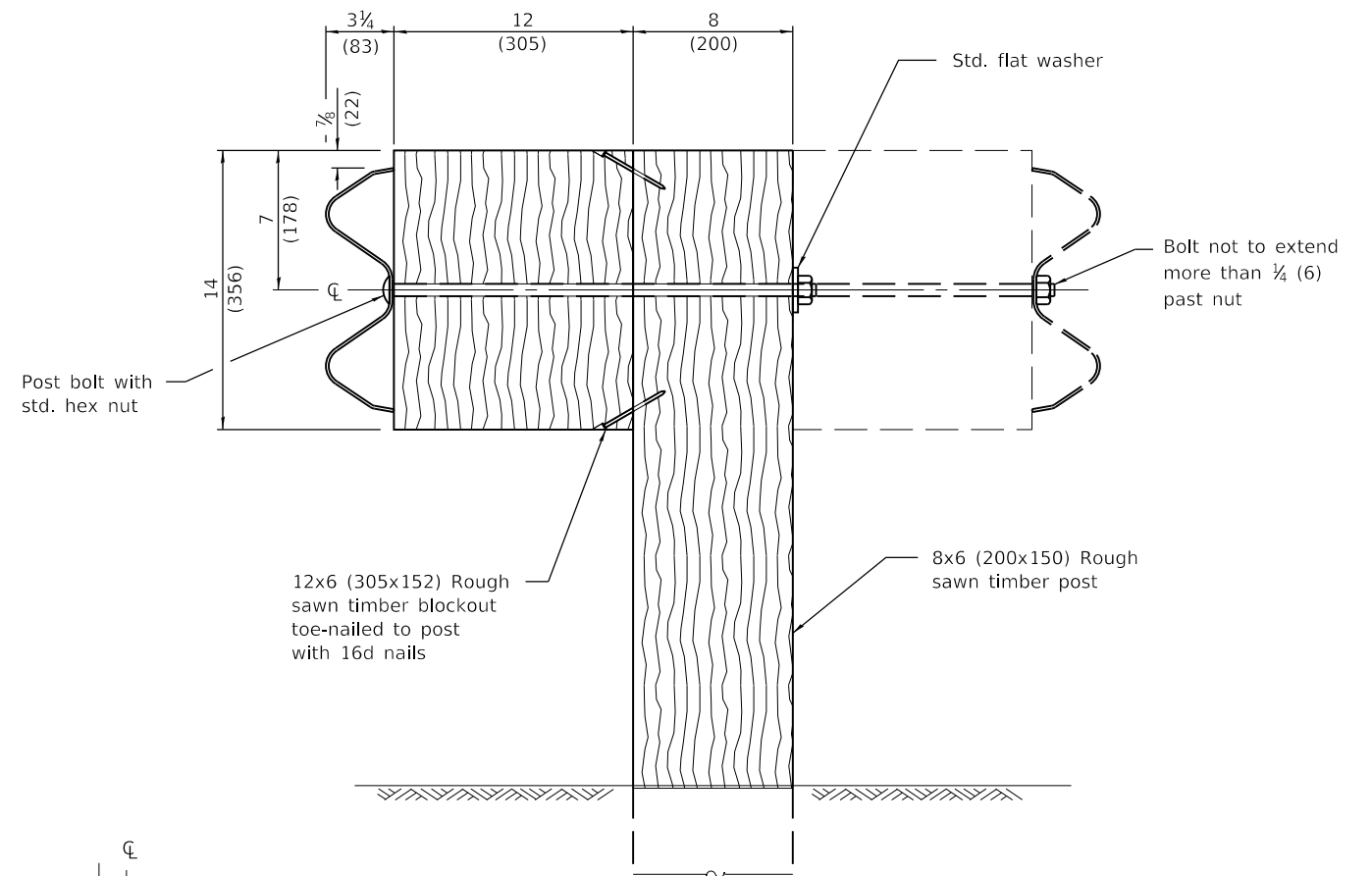
STEEL PLATE BEAM GUARDRAIL

(Sheet 1 of 4)

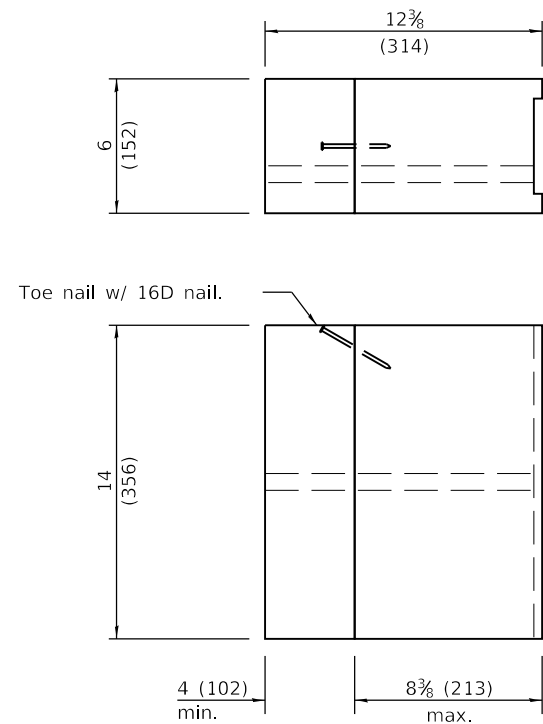
STANDARD 630001-12



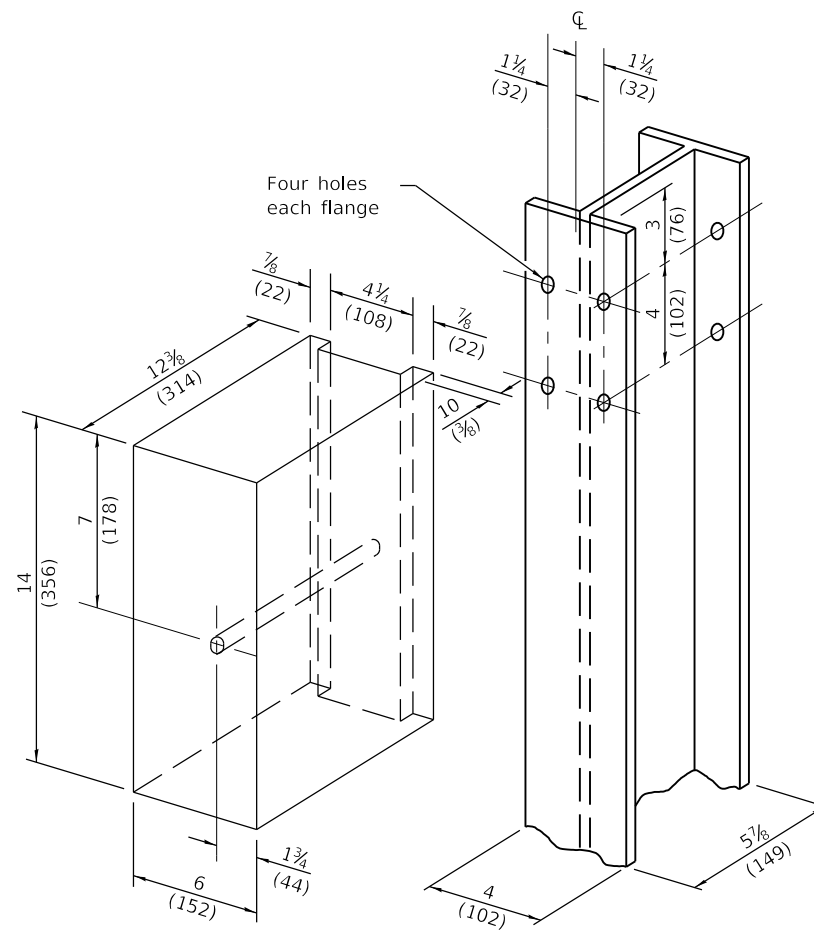
STEEL POST CONSTRUCTION



WOOD POST CONSTRUCTION

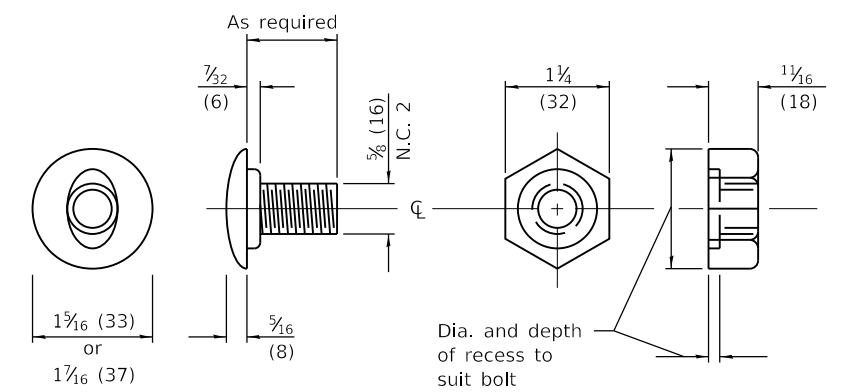


TWO-PIECE WOOD BLOCKOUT OPTION



Note:
All holes 3/4 (20) dia.

WOOD BLOCK-OUT AND STEEL POST DETAILS



POST OR SPLICE BOLT & NUT

Illinois Department of Transportation

APPROVED January 1, 2018

Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018

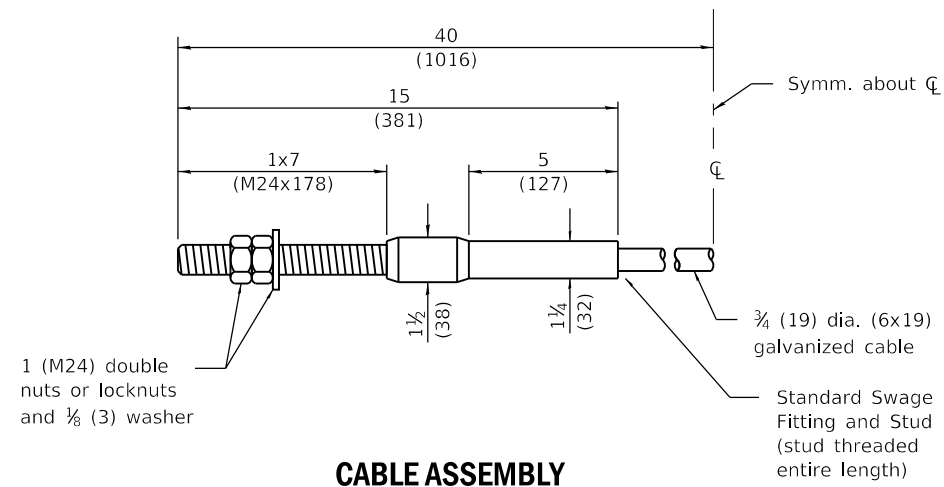
Marcus M. Beck
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-18

STEEL PLATE BEAM GUARDRAIL

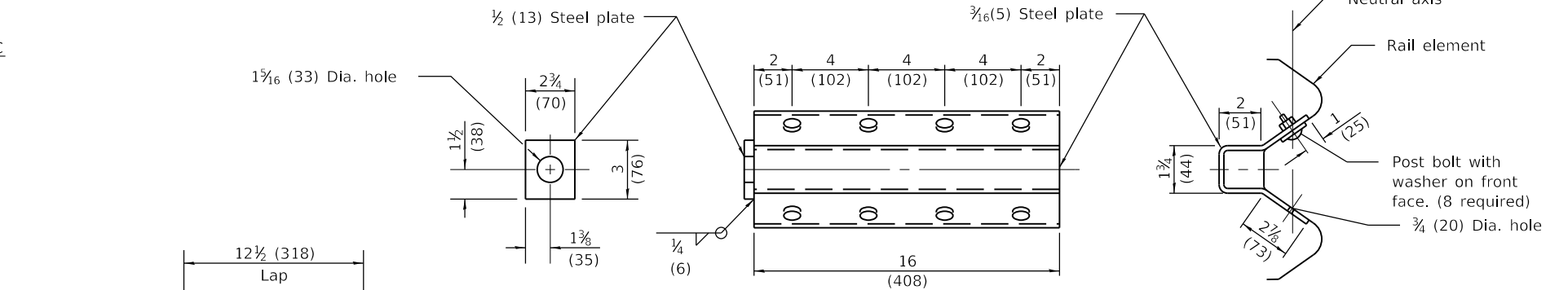
(Sheet 2 of 4)

STANDARD 630001-12



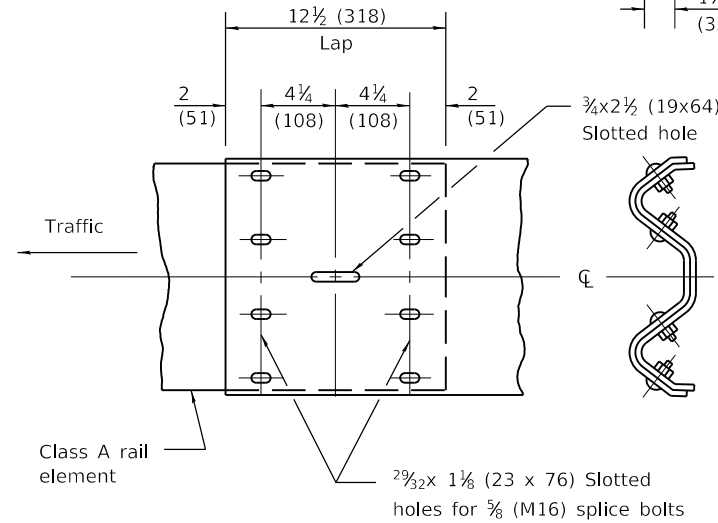
CABLE ASSEMBLY

(42,800 lbs. (190 kN) min. breaking strength)
Tighten to taut tension.

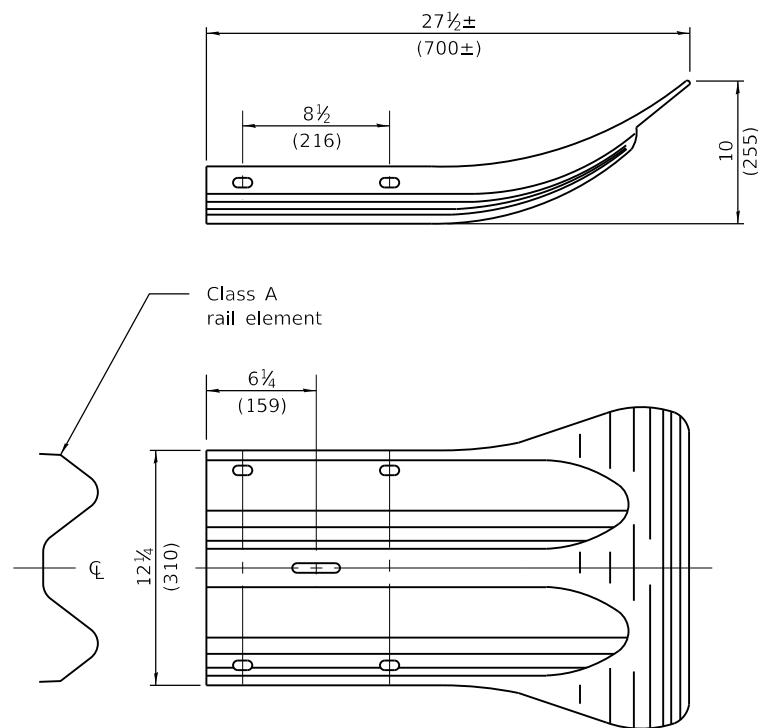


NOTE
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

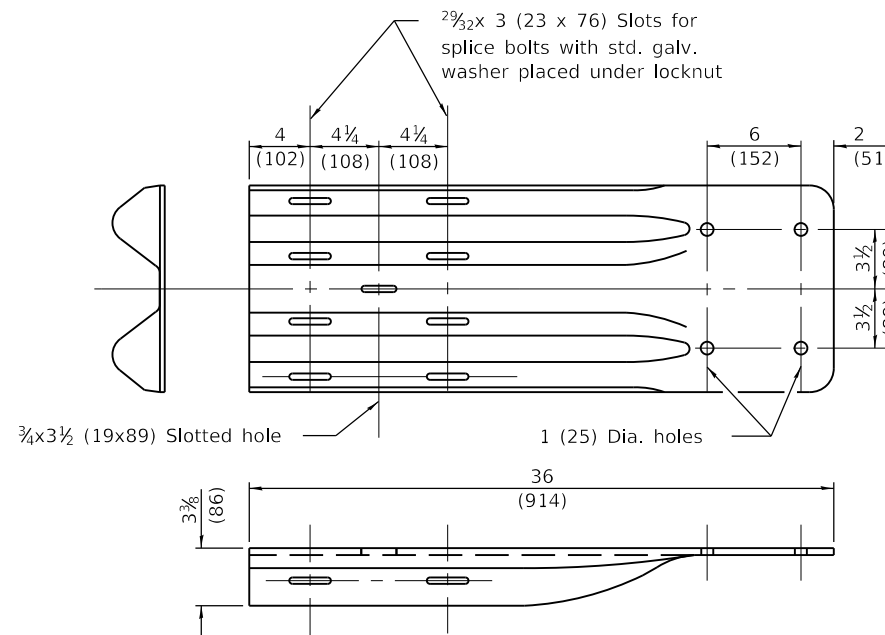
ANCHOR PLATE T DETAILS



RAIL ELEMENT SPLICE



END SECTION

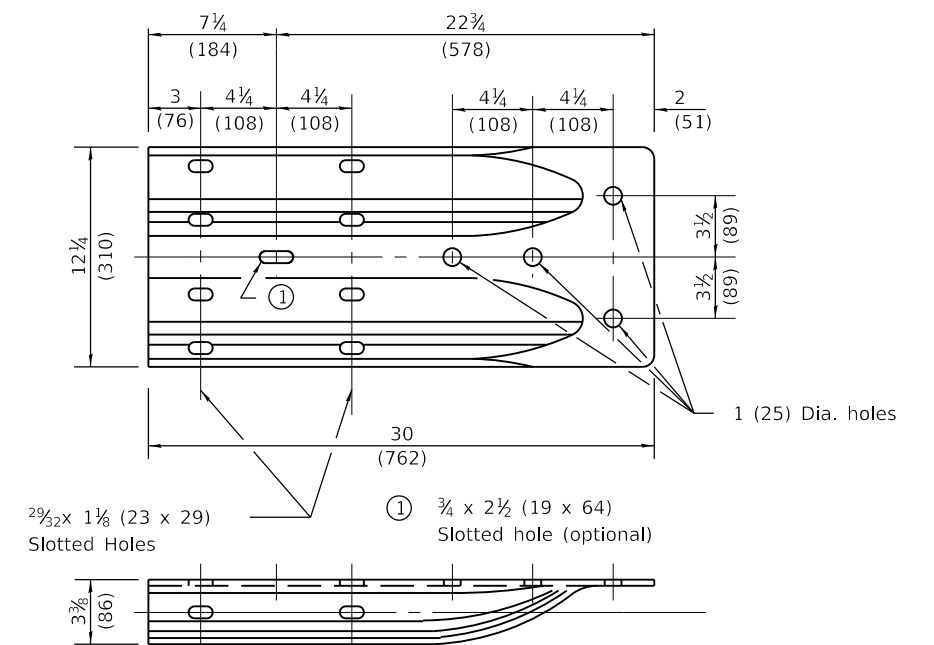


NOTE
When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



ALTERNATE END SHOE

Illinois Department of Transportation

APPROVED January 1, 2018
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

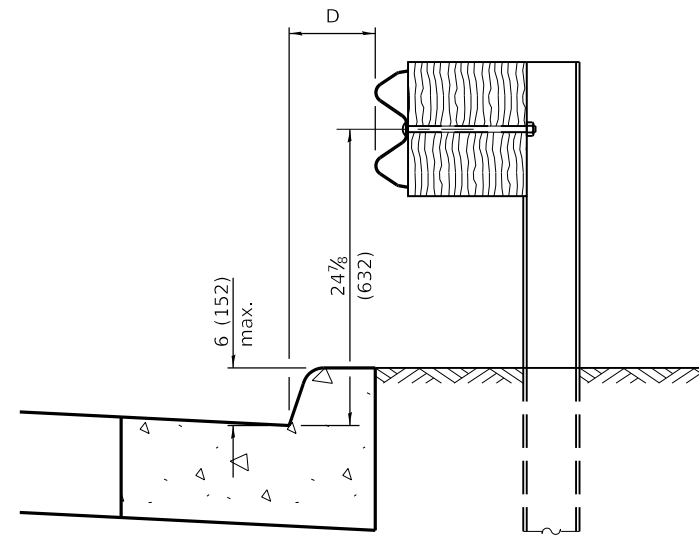
APPROVED January 1, 2018
Marcus M. Beck
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

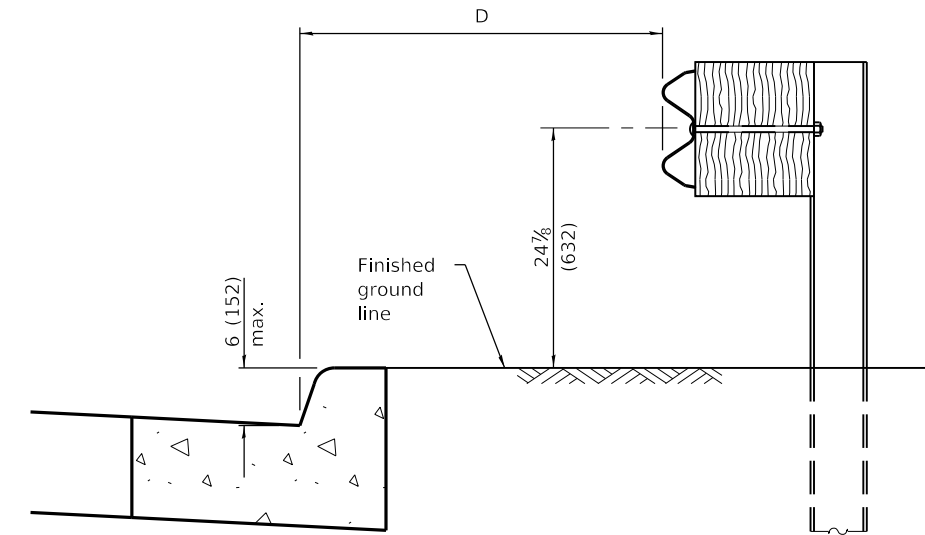
**STEEL PLATE BEAM
GUARDRAIL**

(Sheet 3 of 4)

STANDARD 630001-12



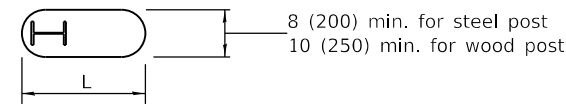
$0 \leq D < 6 (150 \text{ m})$



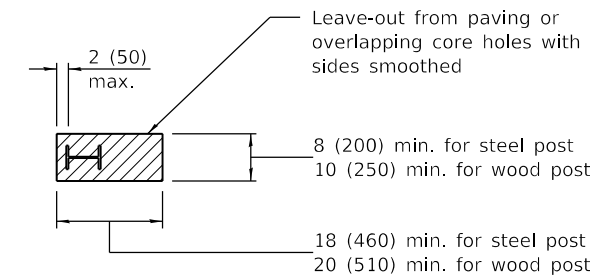
$4'-0'' (1.2 \text{ m}) \leq D \leq 12'-0'' (3.7 \text{ m})$

GUARDRAIL PLACED BEHIND CURB

Note: 'D' shall not exceed 6 (152) for design speeds greater than 45 mph.

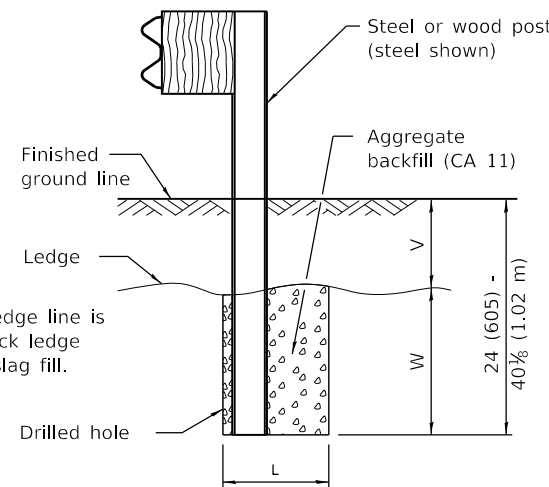


PLAN



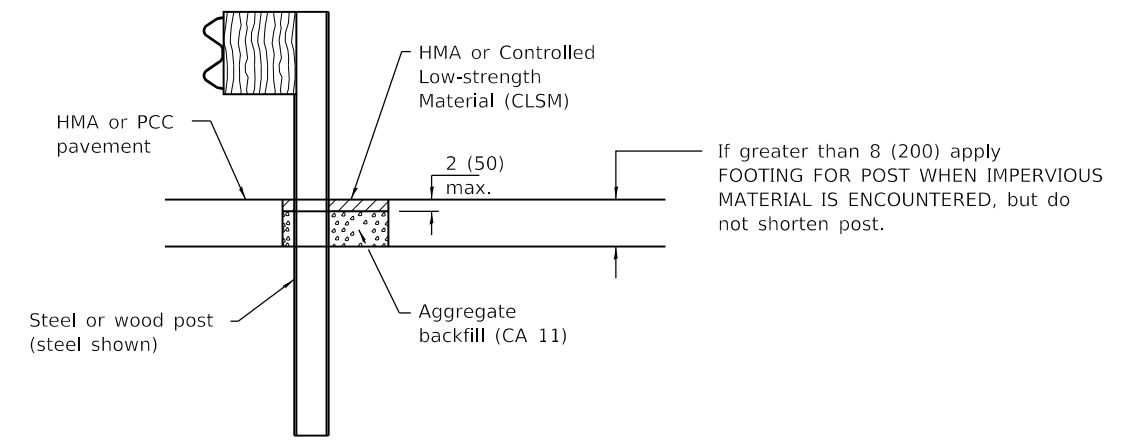
PLAN

V	W	L	
		Steel Post	Wood Post
0 - 6 (0 - 152)	24 (610)	21 (530)	23 (580)
> 6 - 18 (> 152 - 458)	18 (458)	14½ (368)	16½ (419)
> 18 - 31 (> 458 - 787)	12 (305)	8 (203)	10 (250)
> 31 - 40½ (> 787 - 1.02 m)	12 - 0 (305 - 0)	8 (203)	10 (250)



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



ELEVATION

LEAVE-OUT FOR POST WHEN PAVED MATERIAL IS ENCOUNTERED

Illinois Department of Transportation

APPROVED January 1, 2018
Michael Beard
 ENGINEER OF POLICY AND PROCEDURES

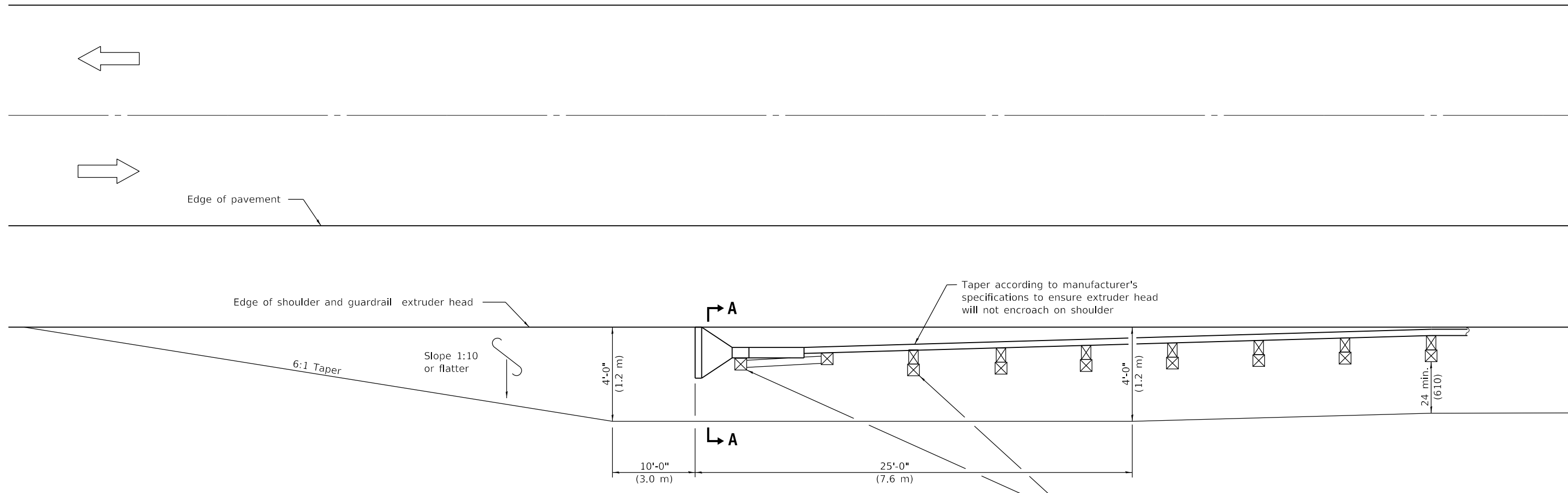
APPROVED January 1, 2018
Marcus M. Beck
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

STEEL PLATE BEAM GUARDRAIL

(Sheet 4 of 4)

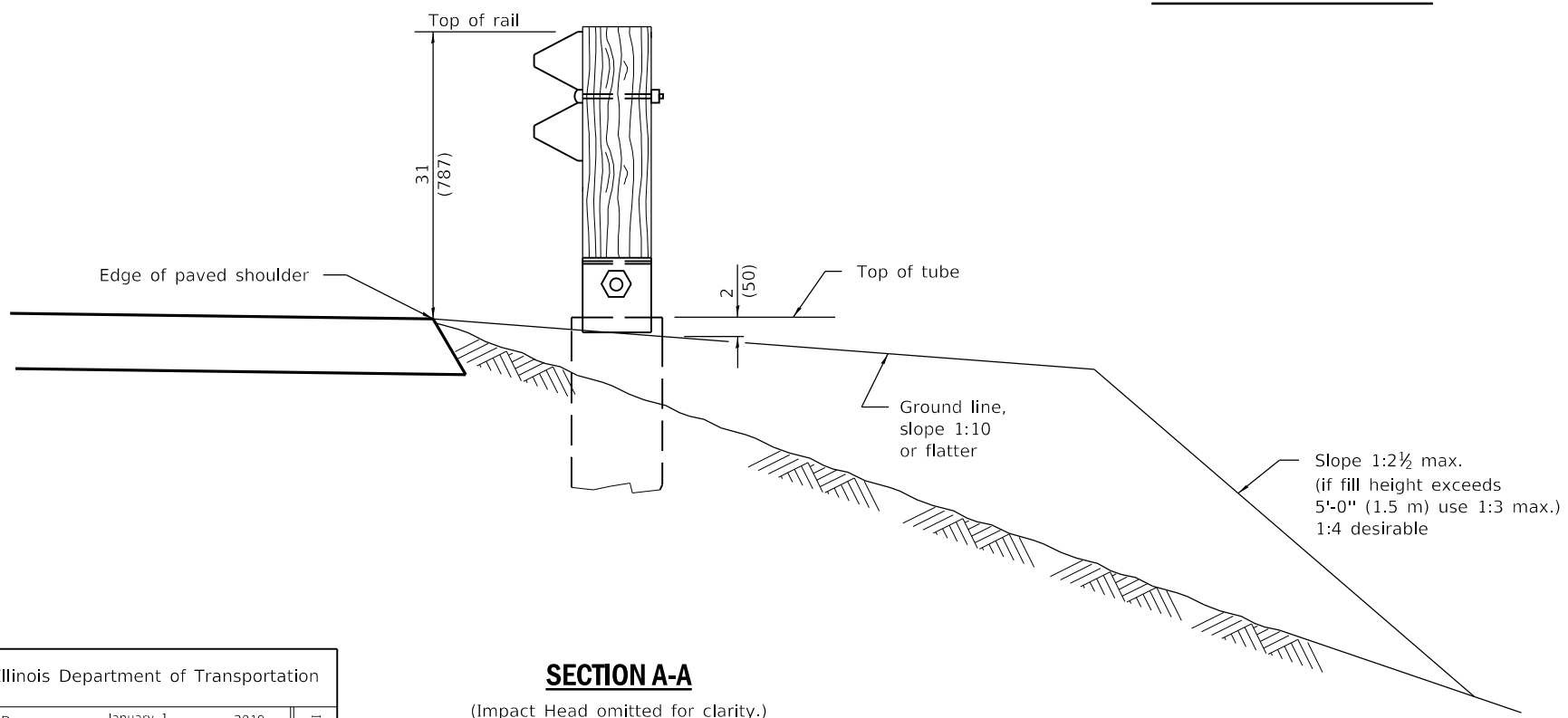
STANDARD 630001-12



**SHOULDER WIDENING TRANSITION
FOR TANGENT TERMINAL**

Beginning length of need point varies by manufacturer. Typically occurs between posts 1 and 3.

Taper according to manufacturer's specifications to ensure extruder head will not encroach on shoulder



SECTION A-A

(Impact Head omitted for clarity.)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

DATE	REVISIONS
1-1-19	Removed pay limits. Revised notes regarding the taper/flare and length of need point.
1-1-18	Omitted posts from 'Pay limits of other type'.

**SHOULDER WIDENING FOR
TYPE 1 (SPECIAL)
GUARDRAIL TERMINALS**

(Sheet 1 of 2)

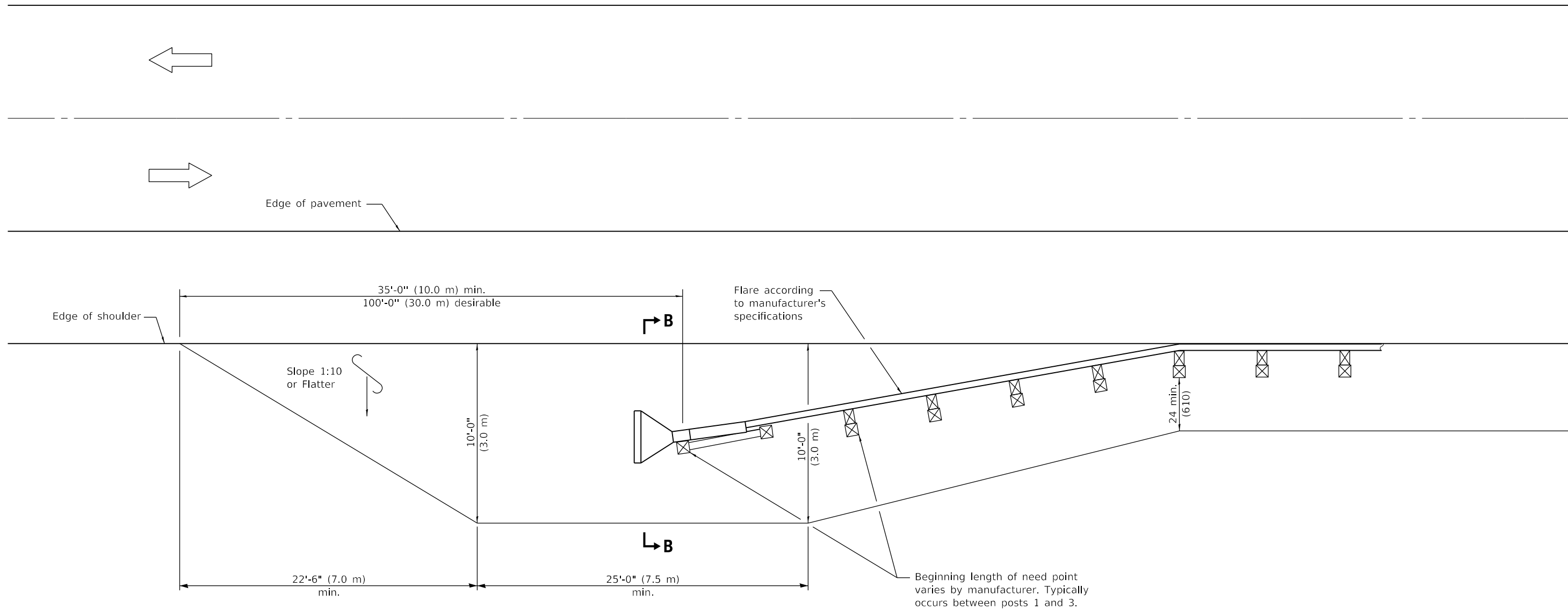
STANDARD 630301-09

Illinois Department of Transportation

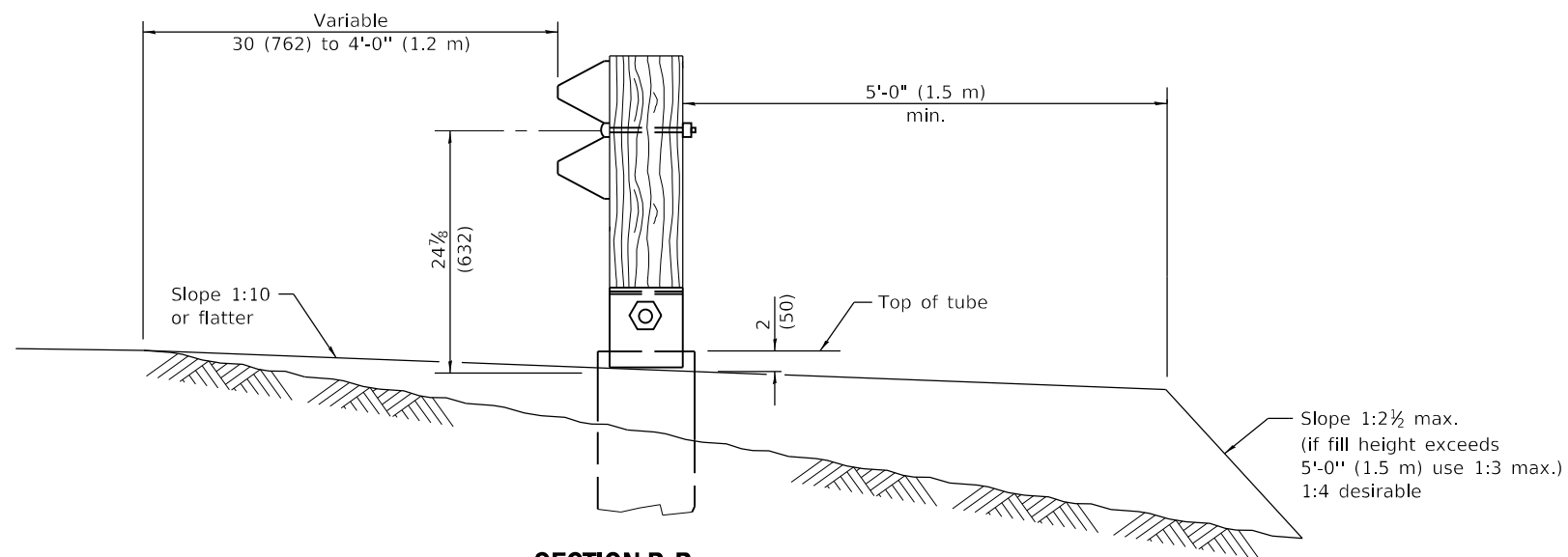
PASSED January 1, 2019
Michael Bond
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
John E. ...
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-00



**SHOULDER WIDENING TRANSITION
FOR FLARED TERMINAL**



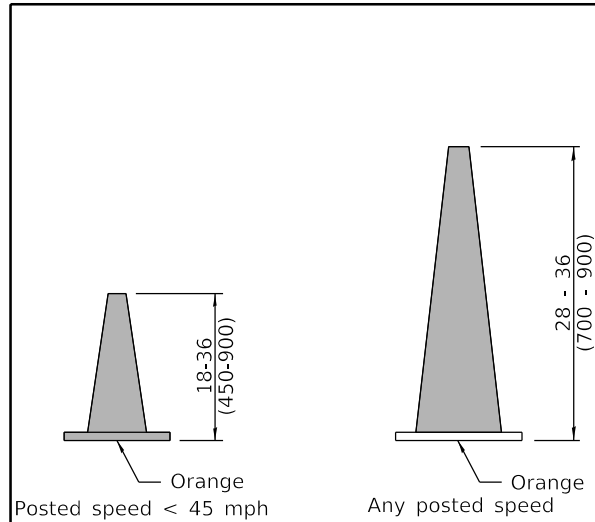
SECTION B-B
(Impact Head omitted for clarity.)

**SHOULDER WIDENING FOR
TYPE 1 (SPECIAL)
GUARDRAIL TERMINALS**

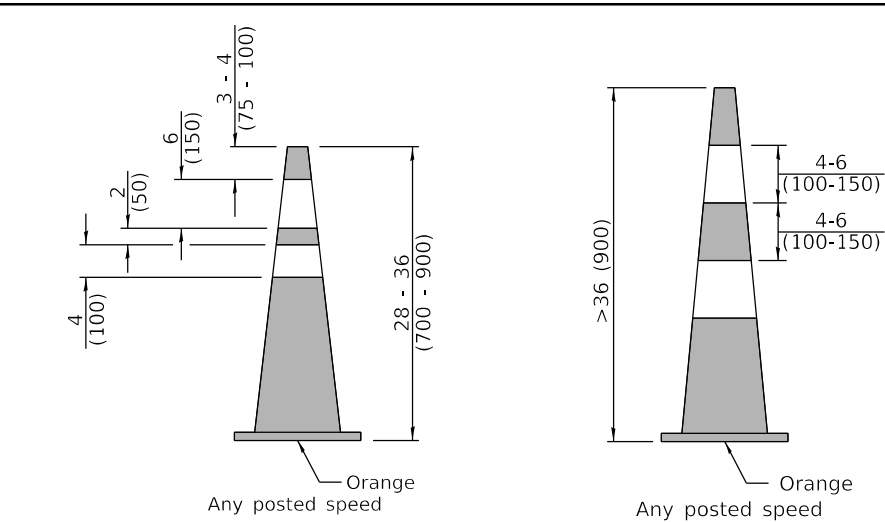
(Sheet 2 of 2)

STANDARD 630301-09

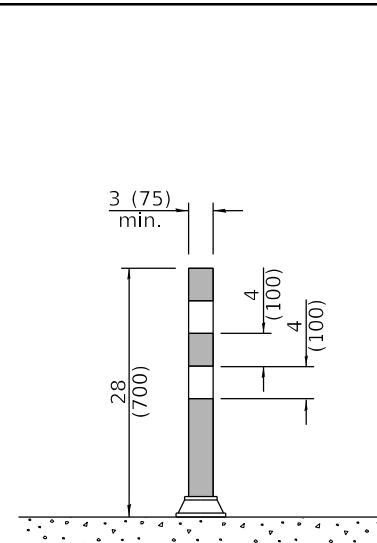
	PASSED January 1, 2019 <i>Michael Bond</i> ENGINEER OF POLICY AND PROCEDURES		ISSUED 1-1-00
	APPROVED January 1, 2019 <i>J. E. C.</i> ENGINEER OF DESIGN AND ENVIRONMENT		
	00-1-1-00		
	00-1-1-00		



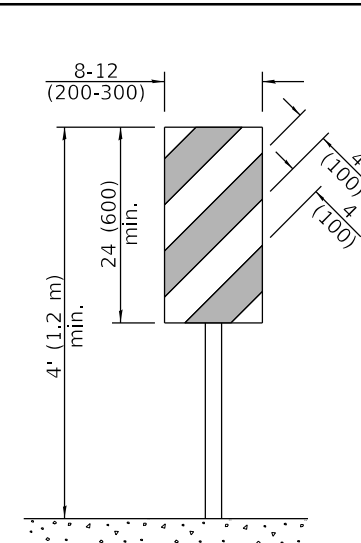
DAYTIME USE



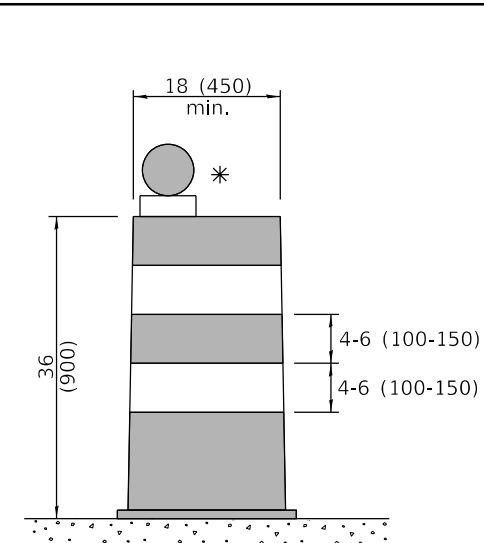
DAY OR NIGHTTIME USE



TUBULAR MARKER

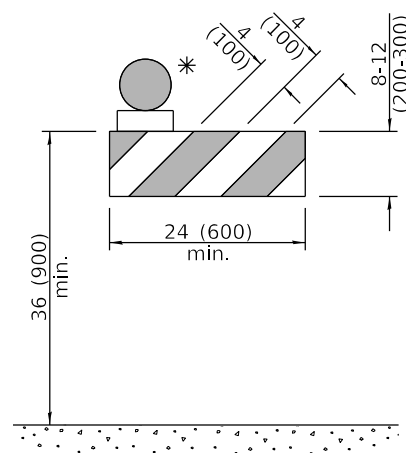


**VERTICAL PANEL
POST MOUNTED**

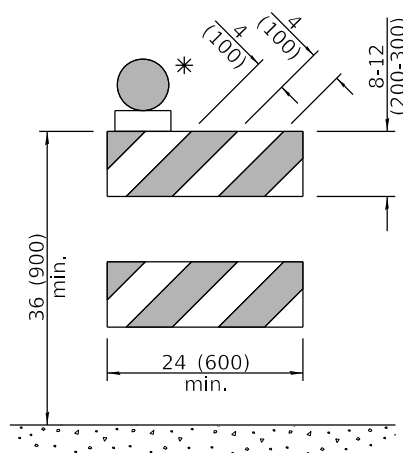


DRUM

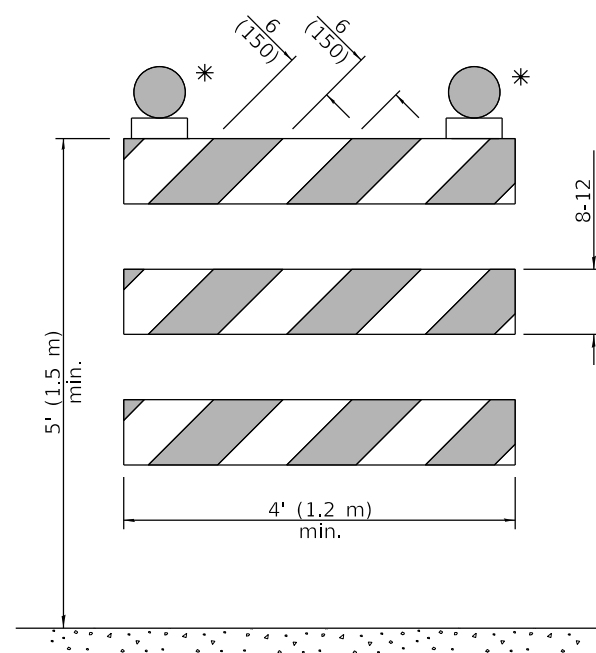
CONES



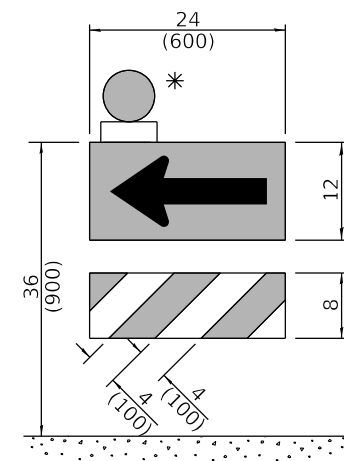
TYPE I BARRICADE



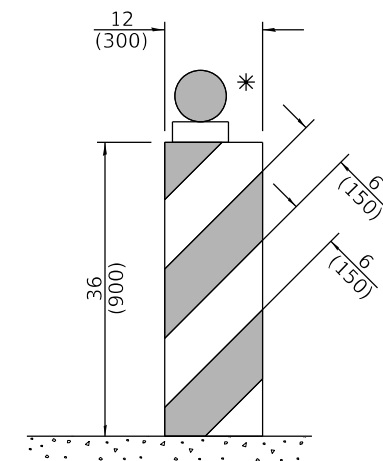
TYPE II BARRICADE



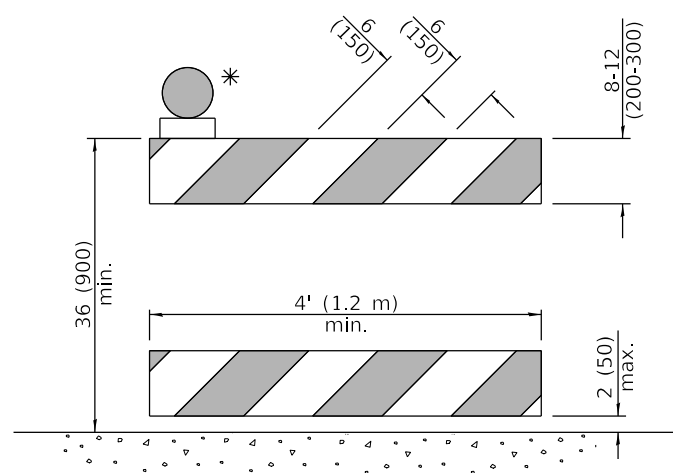
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

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

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 mm) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901-08

Illinois Department of Transportation

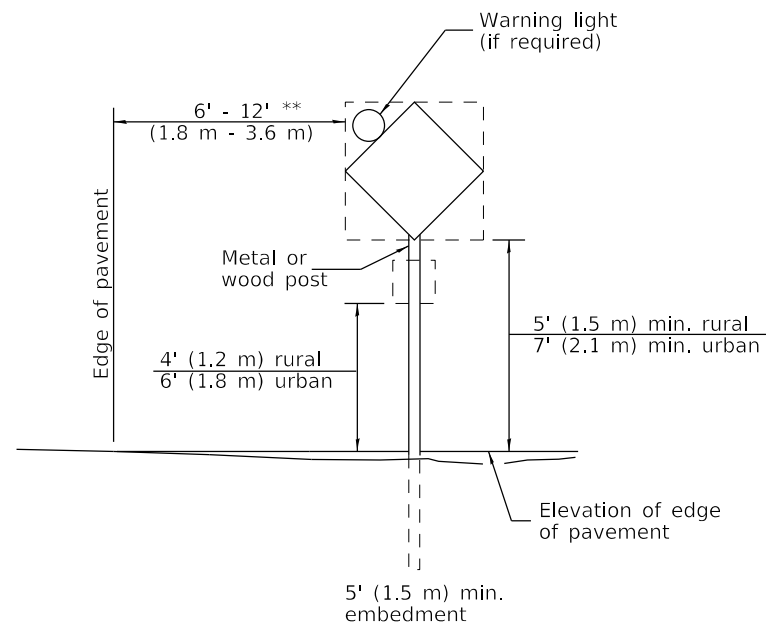
APPROVED January 1, 2019

 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

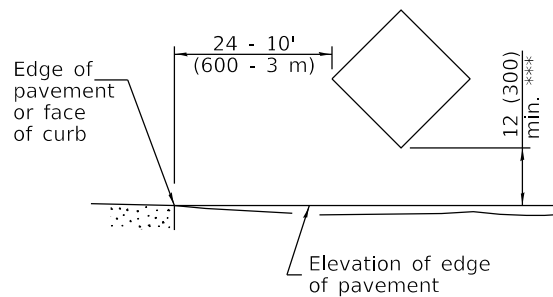
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED
 ET-1-1



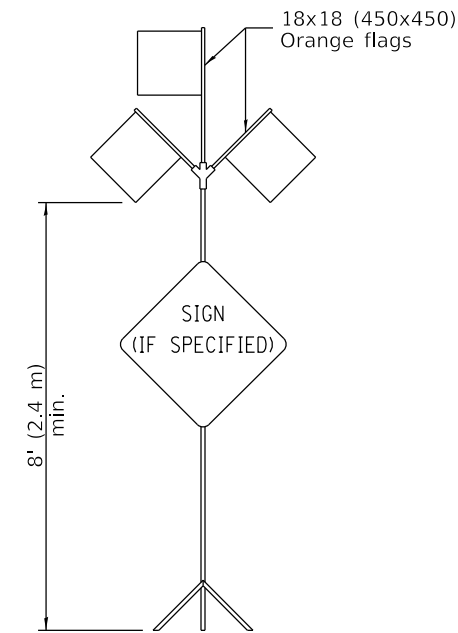
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

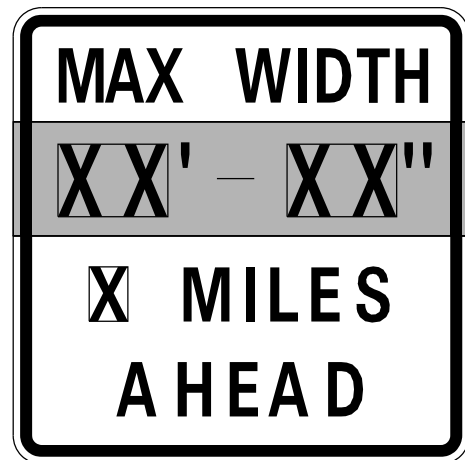


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



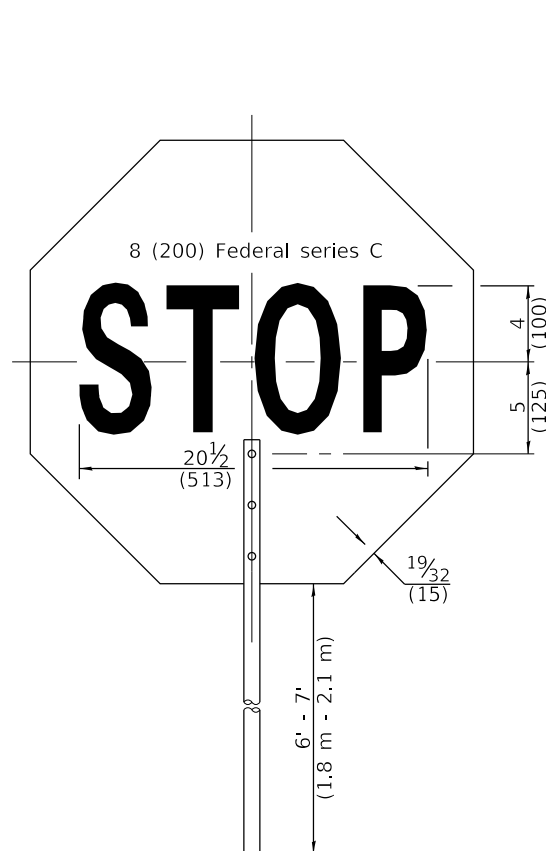
HIGH LEVEL WARNING DEVICE



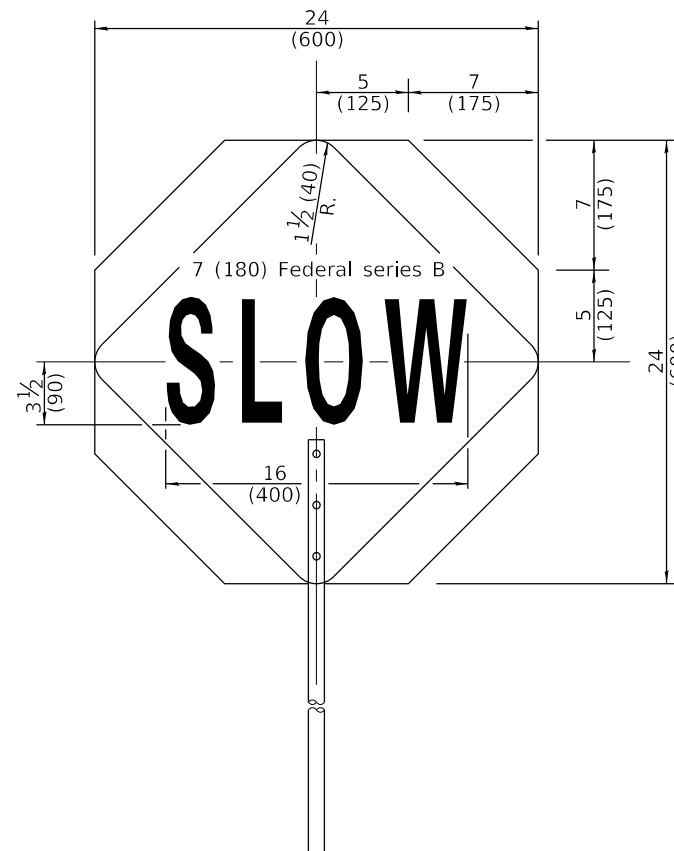
W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN



G20-I104(0)-6036



G20-I105(0)-6024

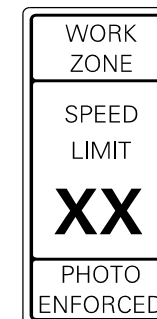
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



W21-III5(0)-3618

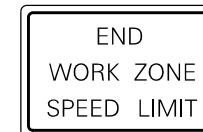
R2-1-3648

R10-I108p-3618 ****



R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08

Illinois Department of Transportation

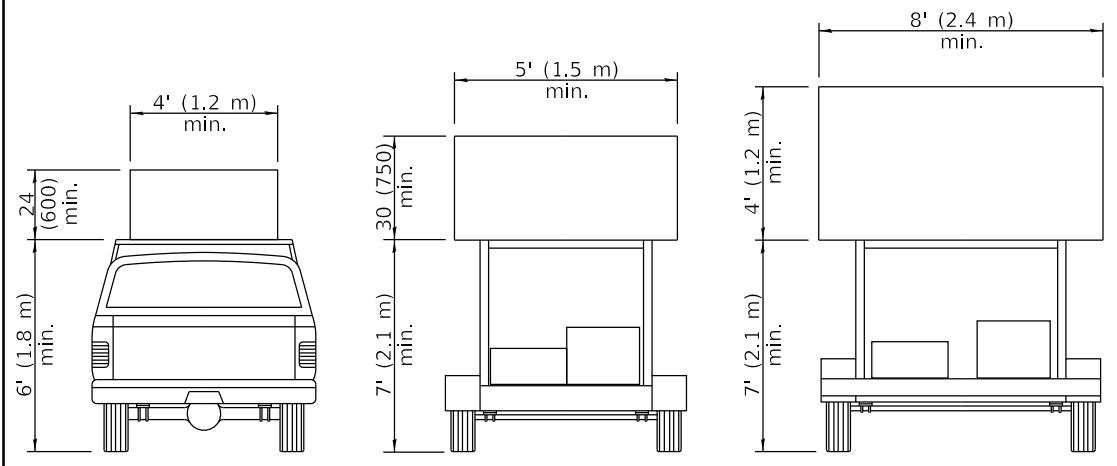
APPROVED January 1, 2019

 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

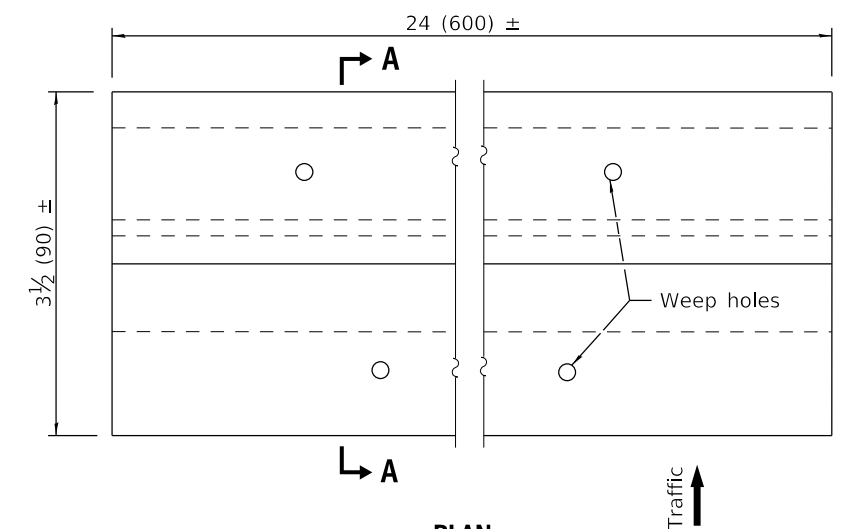
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

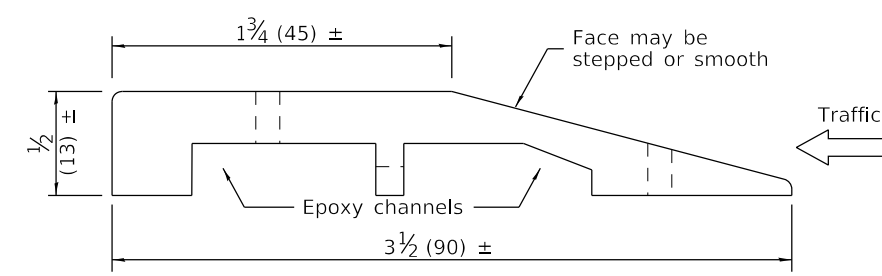


TYPE A ROOF MOUNTED
TYPE B ROOF OR TRAILER MOUNTED
TYPE C TRAILER MOUNTED

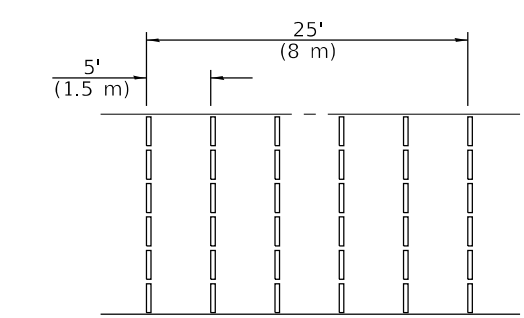
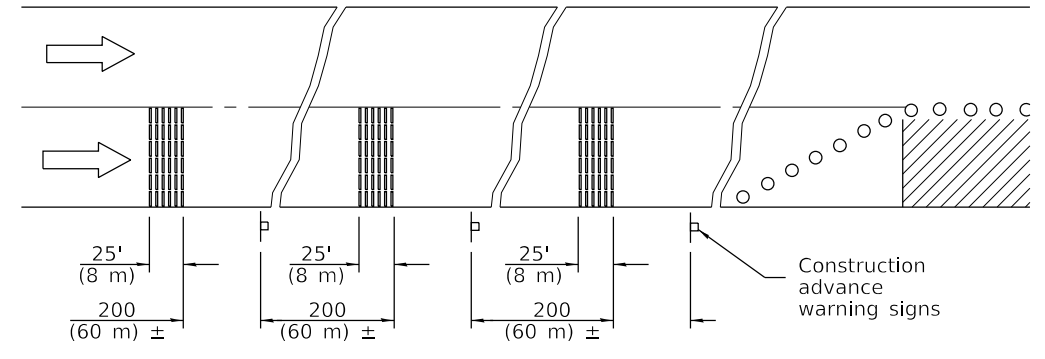
ARROW BOARDS



PLAN

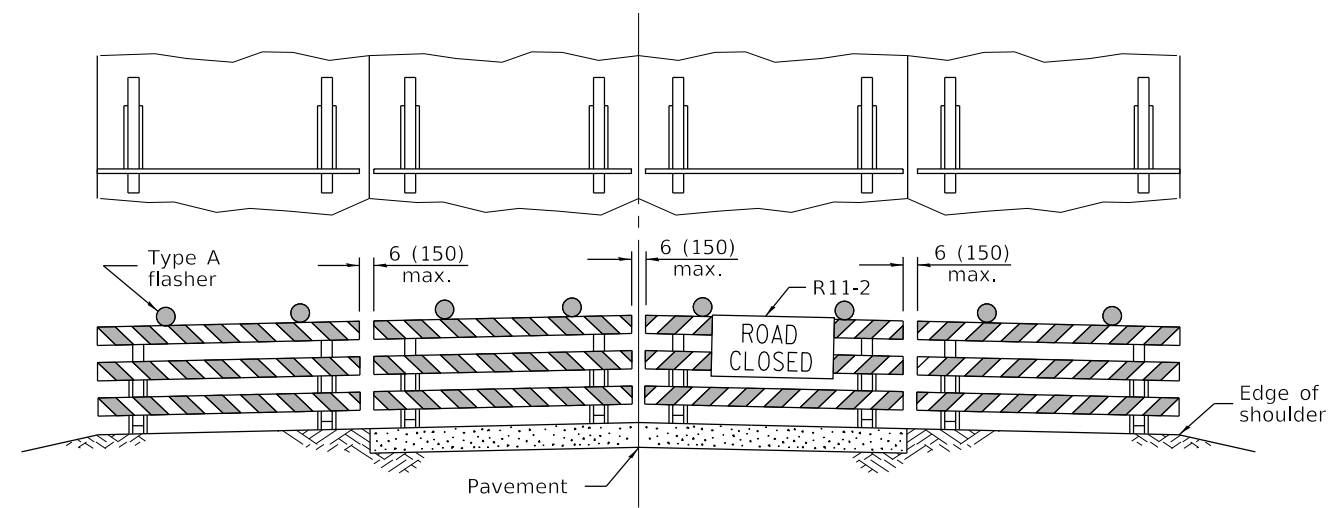


SECTION A-A



TYPICAL INSTALLATION

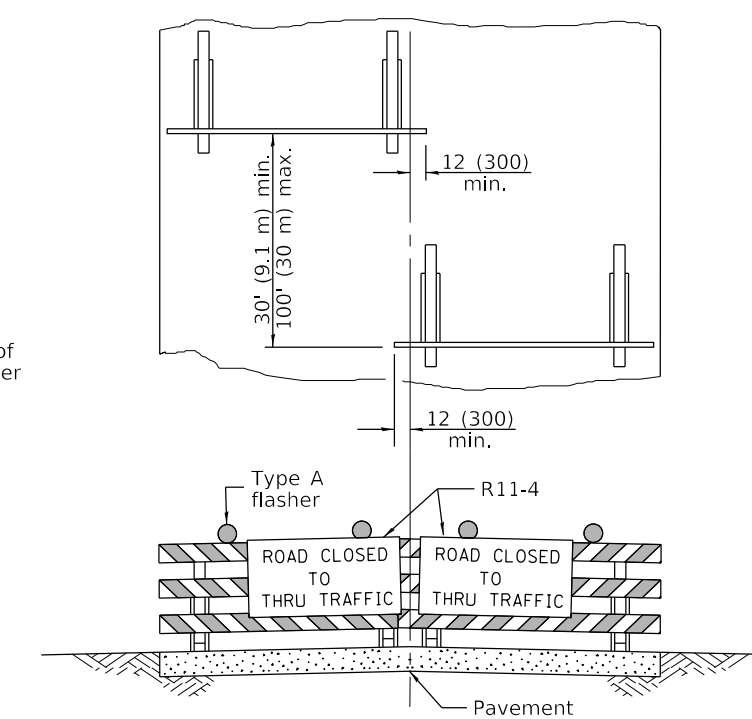
TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

Illinois Department of Transportation

APPROVED January 1, 2019
Cynthia Watt
 ENGINEER OF SAFETY PROG. AND ENGINEERING

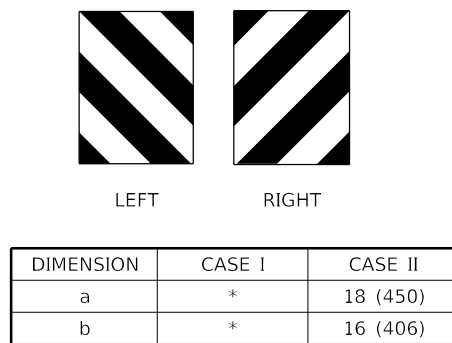
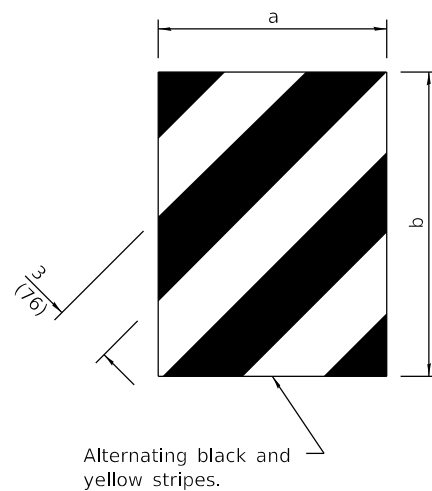
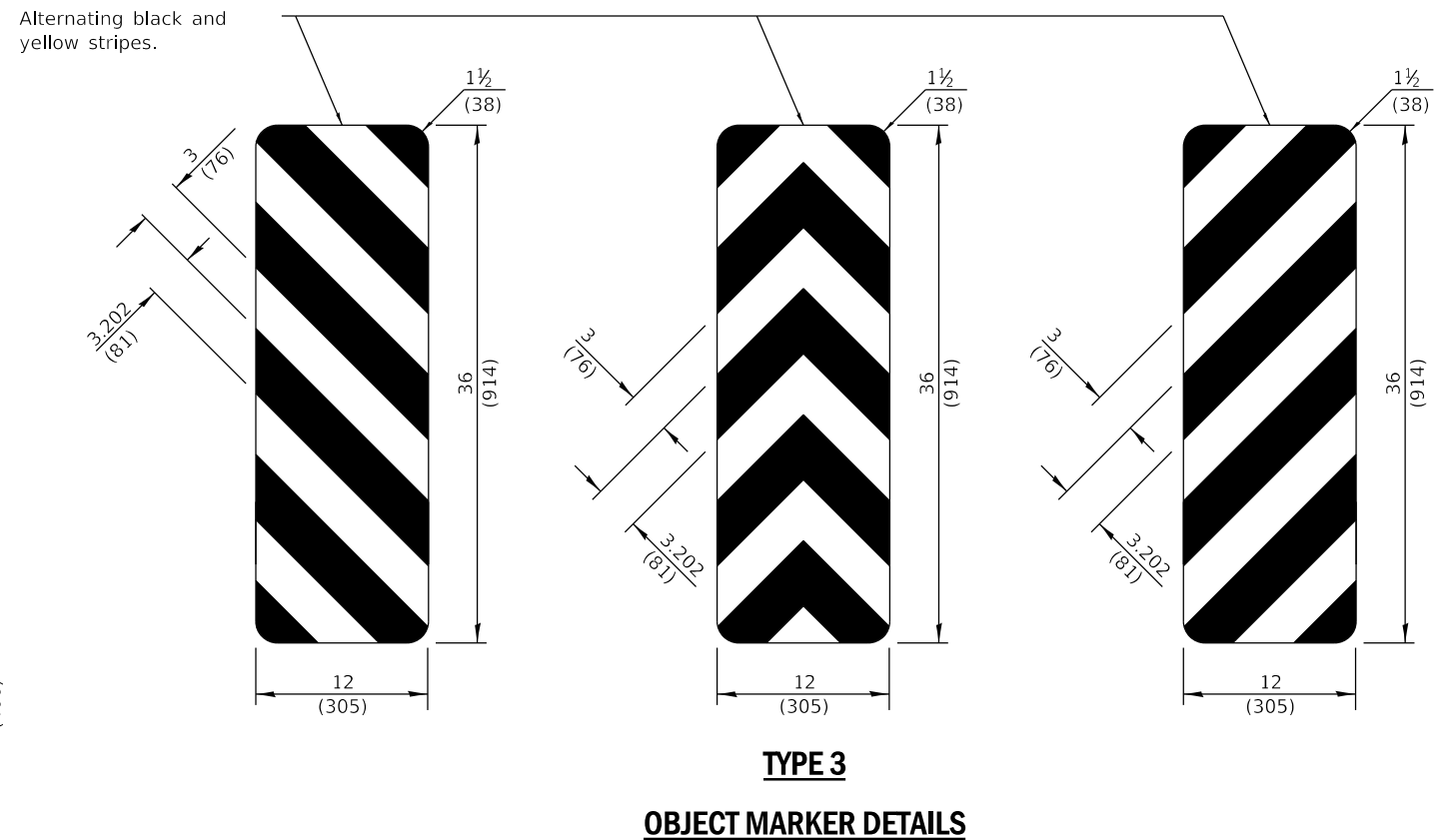
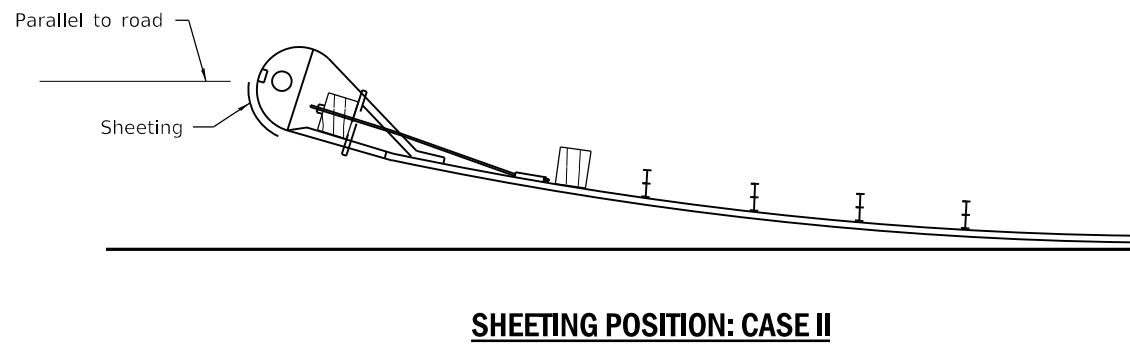
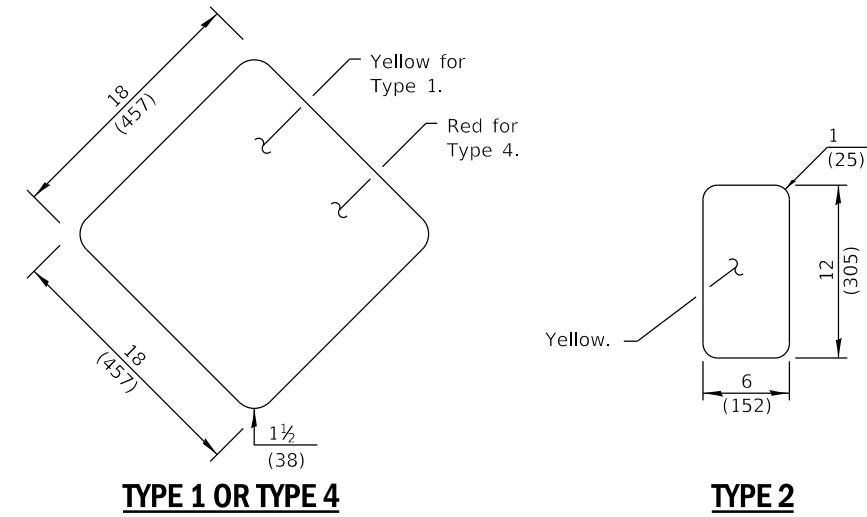
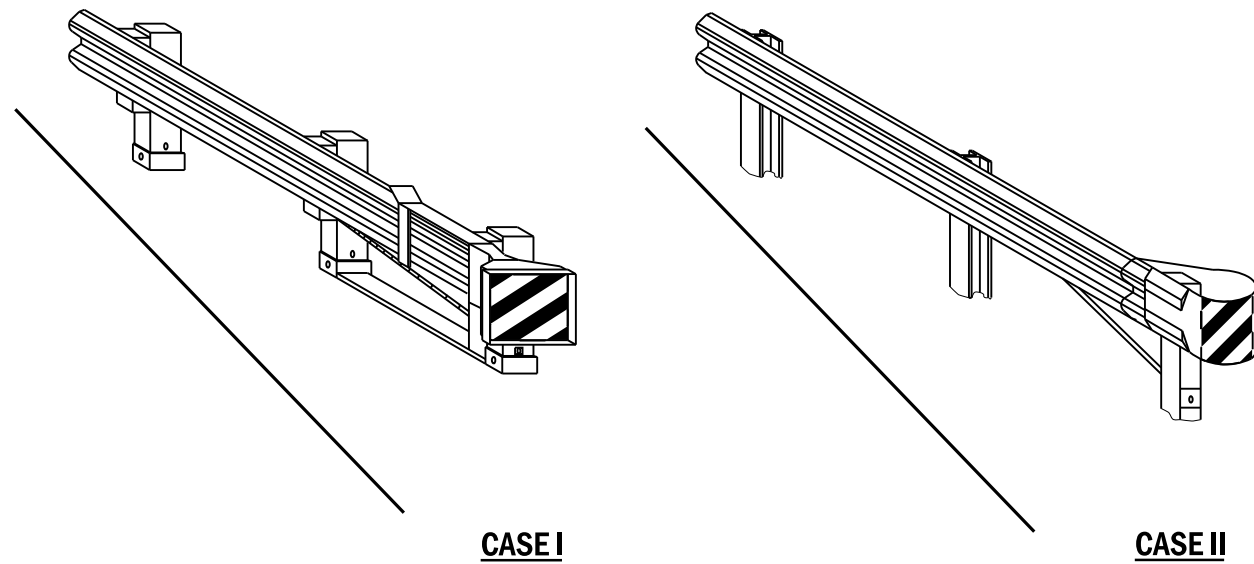
APPROVED January 1, 2019
Joe E. ...
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES: E1-1-1 Q3581

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08

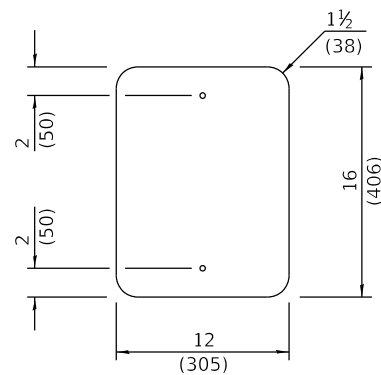


DIRECT APPLIED

TERMINAL MARKER DETAILS

Color: Black / Yellow reflectorized

* The width and height (a, b) of the terminal marker shall be within approximately 1 (25) of the outer edge of the terminal end.



GENERAL NOTES

See detail on Standard 729001 for mounting markers to posts.

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

DATE	REVISIONS
1-1-17	Omitted minimum reflective area requirement for terminal marker.
4-1-16	Renumbered standard from 635006.

OBJECT AND TERMINAL MARKERS

STANDARD 725001-01

Illinois Department of Transportation

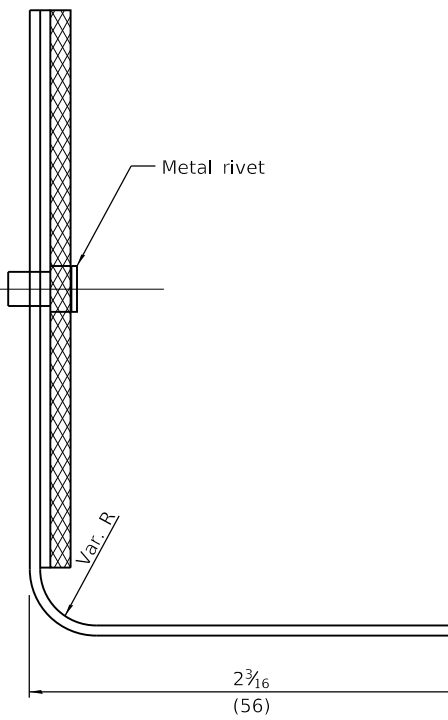
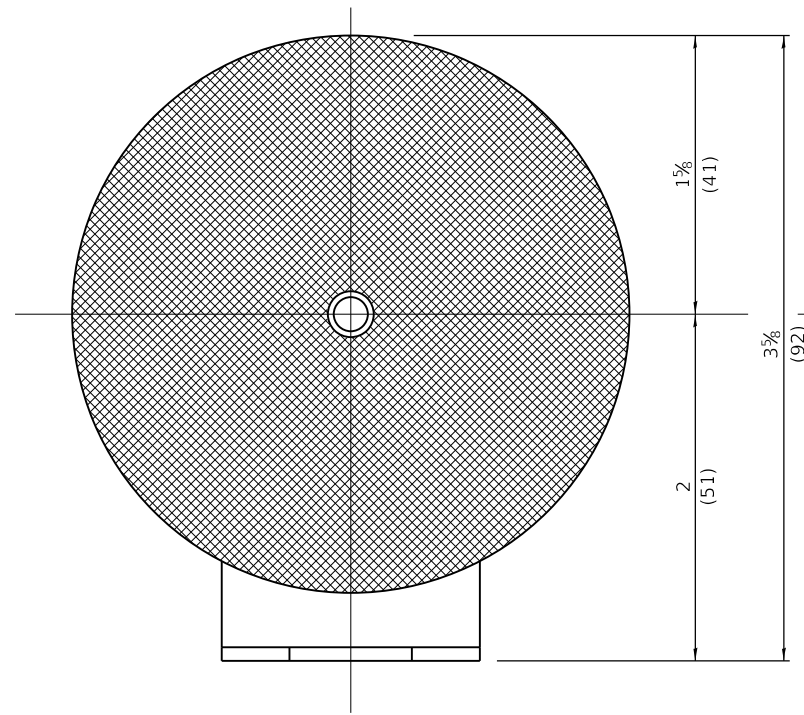
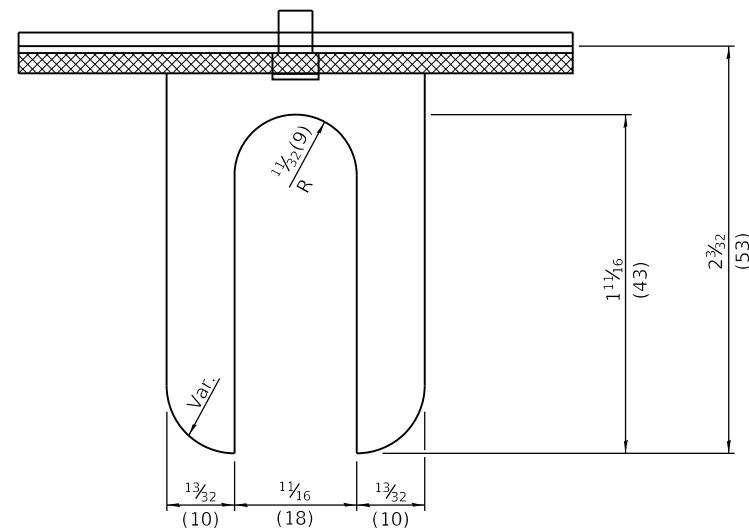
PASSED January 1, 2017

ENGINEER OF OPERATIONS

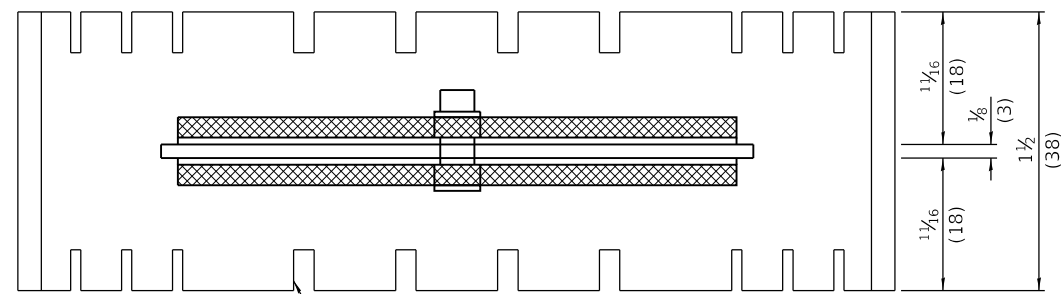
APPROVED January 1, 2017

ENGINEER OF DESIGN AND ENVIRONMENT

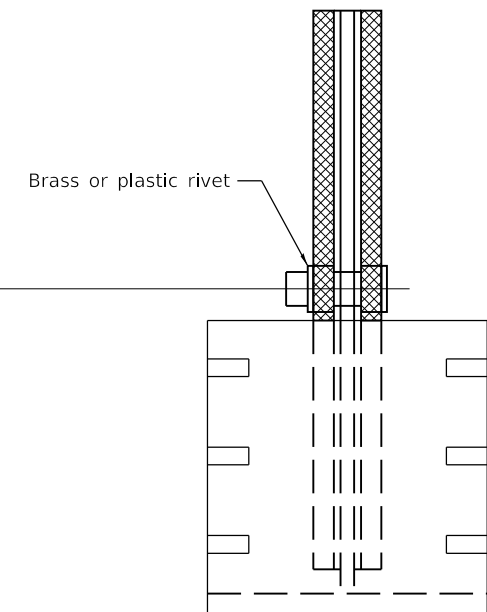
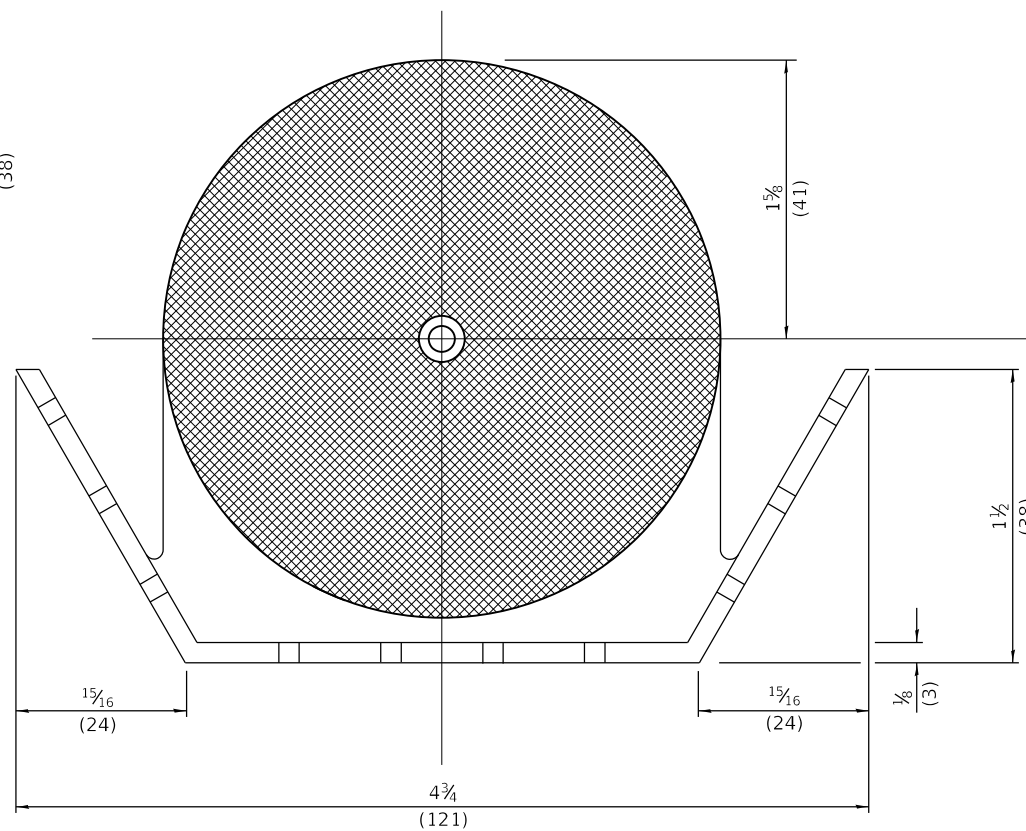
ISSUED 1-1-2016



REFLECTOR TYPE A
(monodirectional shown)



Adhesive weep slots or holes
equally spaced on both sides



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

REFLECTOR TYPE B
(bidirectional shown)

DATE	REVISIONS
1-1-20	Revised from F-shape to constant slope parapet, revised note 3 on sht. 3, and fixed typo.
4-1-16	Added reflector spacing detail. Moved TERMINAL MARKER to std. 725001.

**GUARDRAIL AND
BARRIER WALL REFLECTOR
MOUNTING DETAILS**

(Sheet 1 of 3)

STANDARD 782006-01

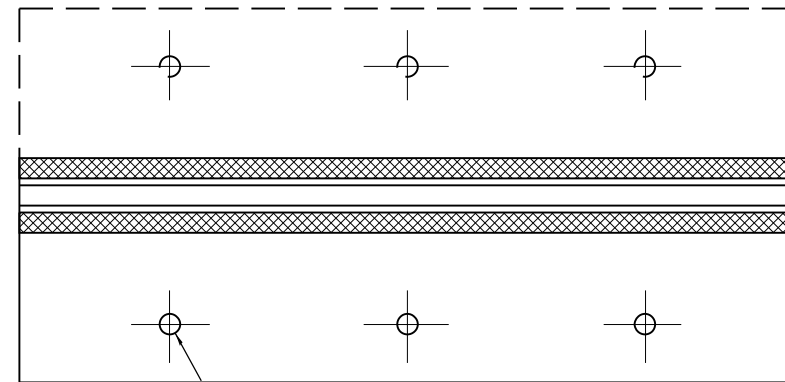
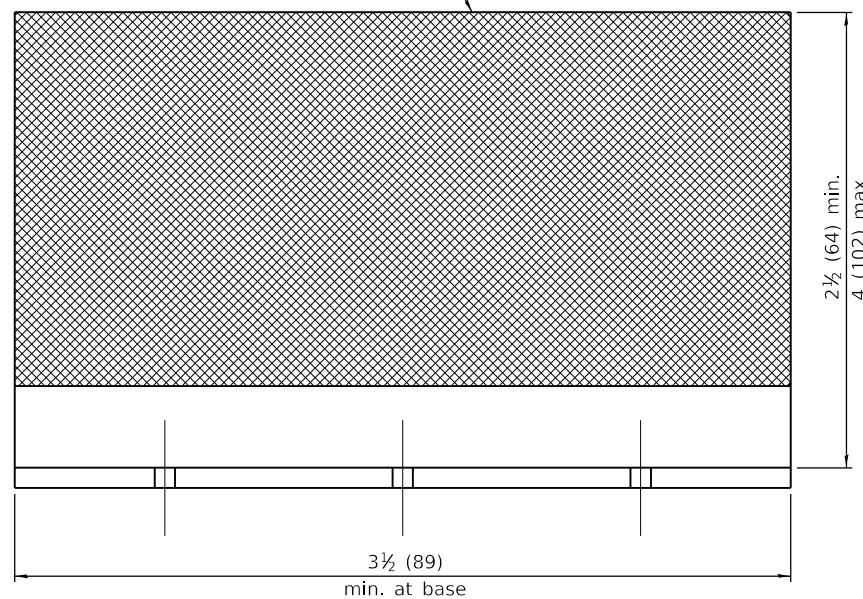
Illinois Department of Transportation

PASSED January 1, 2020
Amy Allen
ENGINEER OF OPERATIONS

APPROVED January 1, 2020
John E. ...
ENGINEER OF DESIGN AND ENVIRONMENT

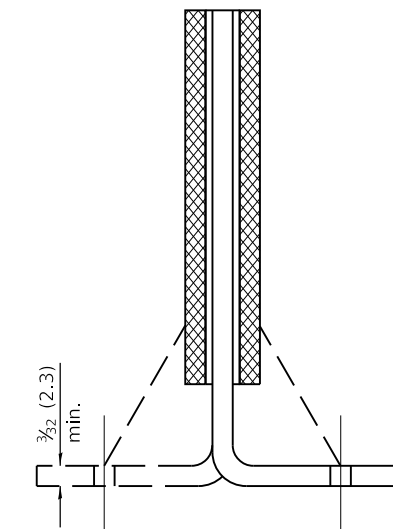
ISSUED 1-1-2000

Reflective area. May be rectangular or slight trapezoid.



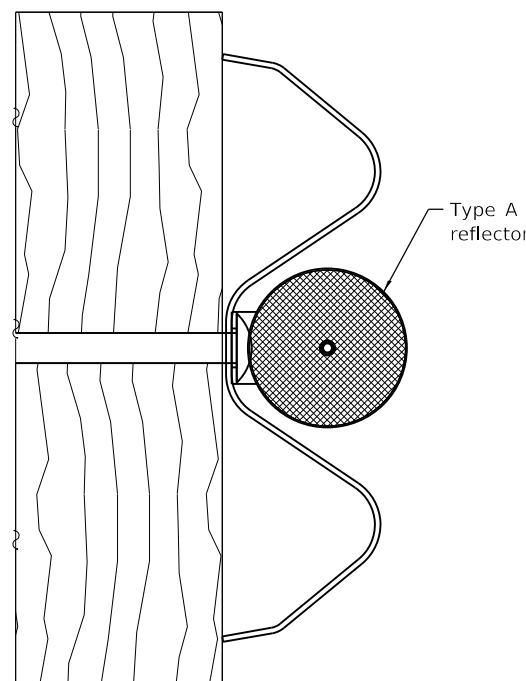
3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 sq. in. (4,516 mm²)

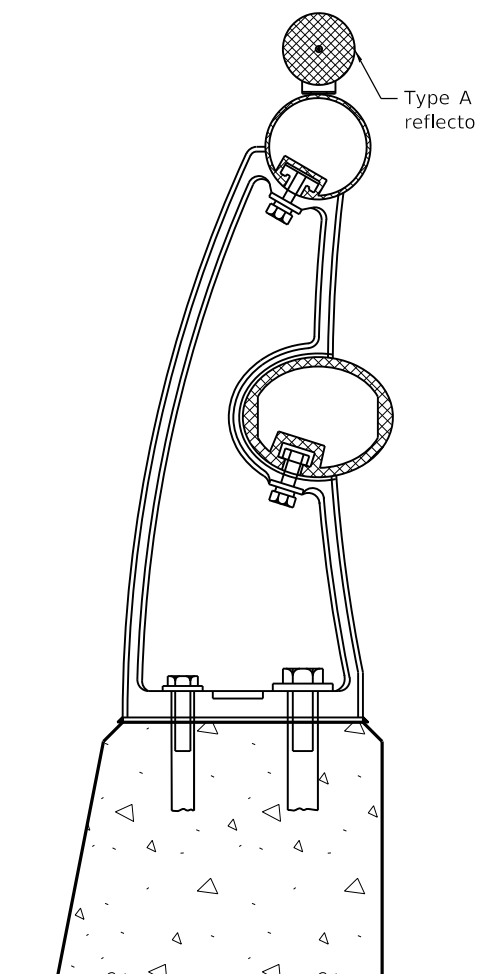
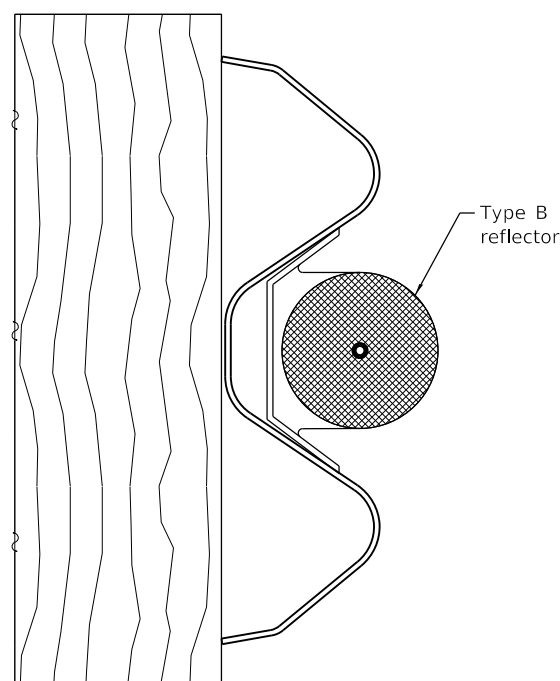


Cross section may be "T" or "L" shaped and may have side supports at ends.

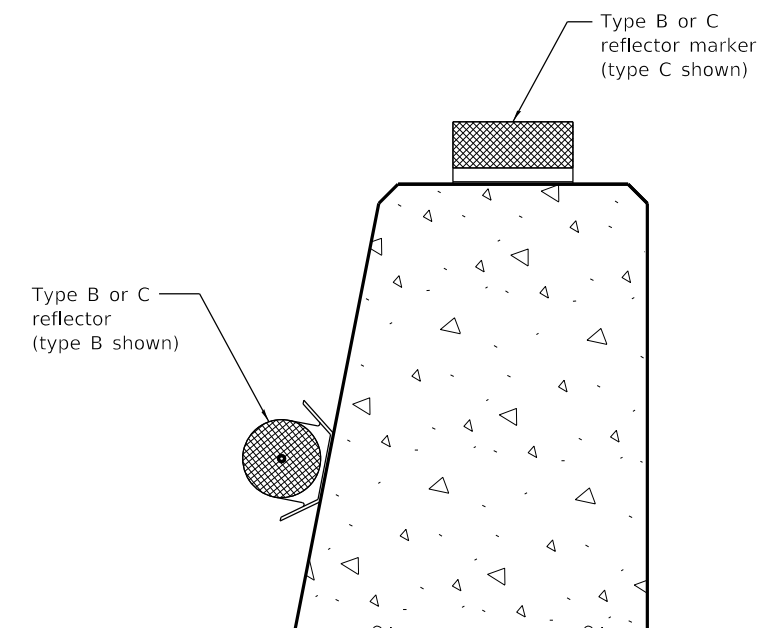
REFLECTOR TYPE C



TYPICAL MOUNTING DETAIL FOR GUARDRAIL REFLECTOR



TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

Illinois Department of Transportation

PASSED January 1, 2020
Amy Allen
ENGINEER OF OPERATIONS

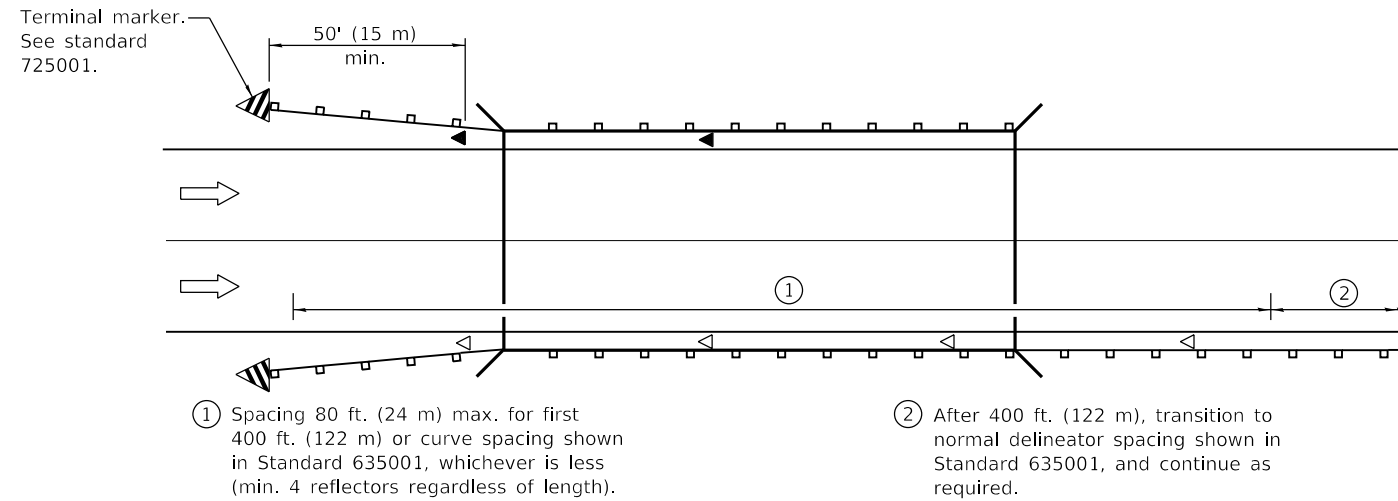
APPROVED January 1, 2020
Joe E. ...
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-2000

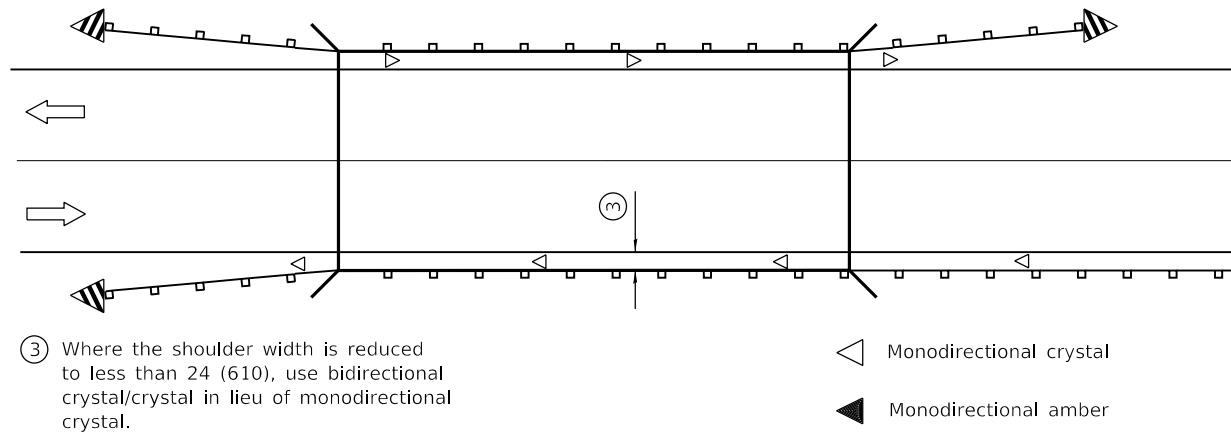
GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

(Sheet 2 of 3)

STANDARD 782006-01



ONE-WAY TRAFFIC



TWO-WAY TRAFFIC

**GUARDRAIL / BARRIER WALL
REFLECTOR PLACEMENT DETAIL**

Illinois Department of Transportation

PASSED January 1, 2020

Amy Allen
ENGINEER OF OPERATIONS

APPROVED January 1, 2020

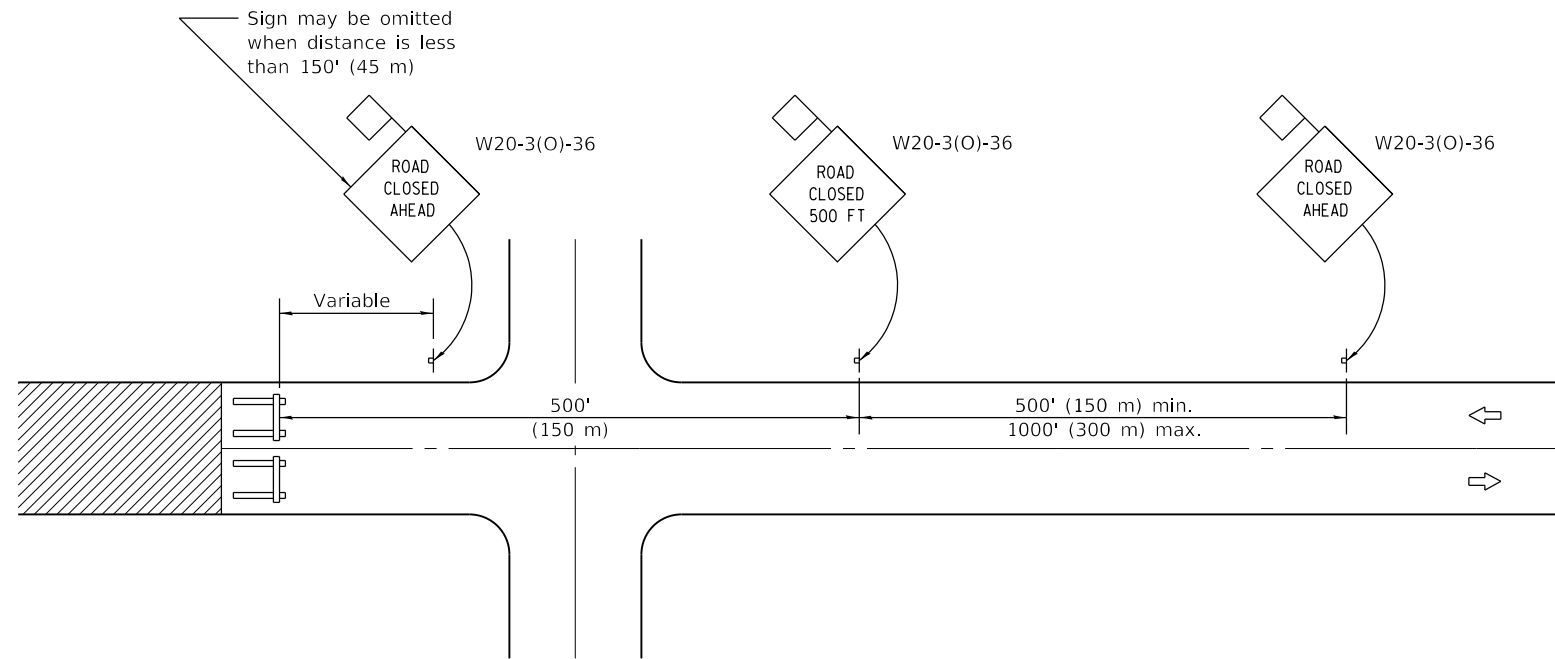
J. E. ...
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-2000

**GUARDRAIL AND
BARRIER WALL REFLECTOR
MOUNTING DETAILS**

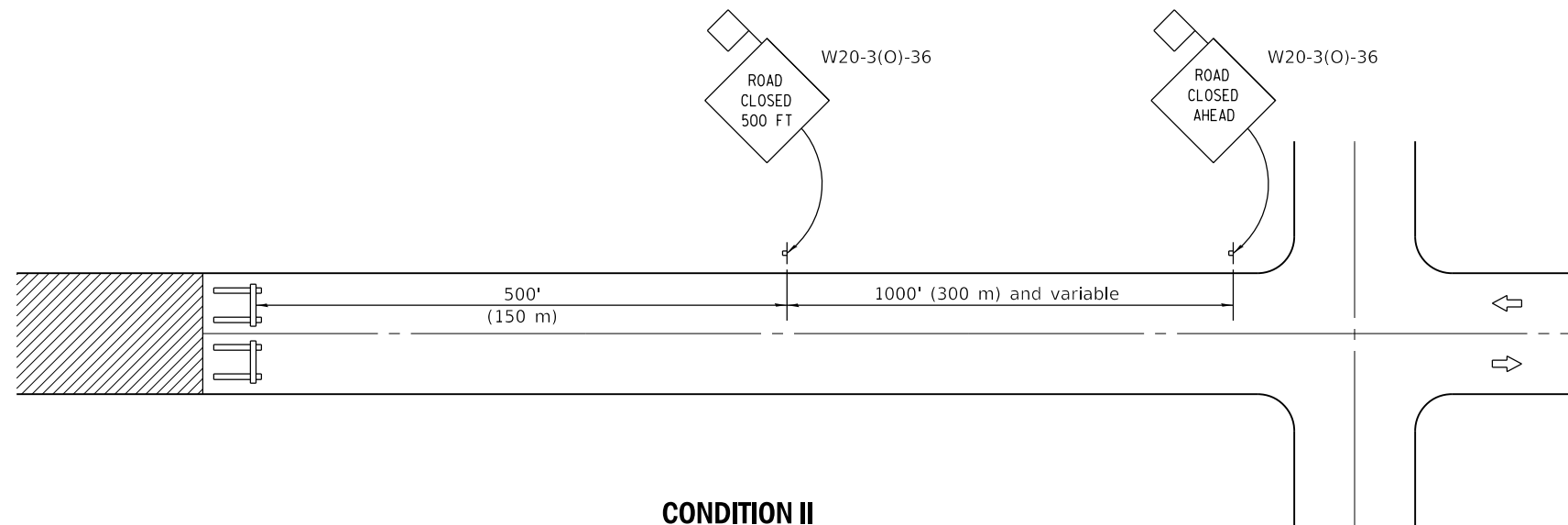
(Sheet 3 of 3)

STANDARD 782006-01



CONDITION I

When distance from closure to crossroad is less than 1500' (450 m)



CONDITION II

When distance from closure to crossroad is greater than 1500' (450 m)

SYMBOLS



Work area



Type III Barricade



Sign with 18x18 (450x450) min. orange flag attached

GENERAL NOTES

Type III Barricades and R11-2-4830 signs shall be positioned as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

Two Type A Low Intensity Flashing Lights shall be used on each approach in advance of the work area during hours of darkness. One light shall be installed above the barricades and the other above the first advance warning sign.

All warning signs shall have minimum dimensions of 36 x 36 (900 x 900) and have a black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

Longitudinal dimensions may be adjusted to fit field conditions.

When the distance between the barricade and the intersection is between 1500' (450 m) and 2000' (600 m), the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 2000' (600 m), an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.

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

DATE	REVISIONS
1-1-12	Omitted two notes from GENERAL NOTES.
1-1-09	Switched units to English (metric).

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

STANDARD B.L.R. 21-9

Illinois Department of Transportation

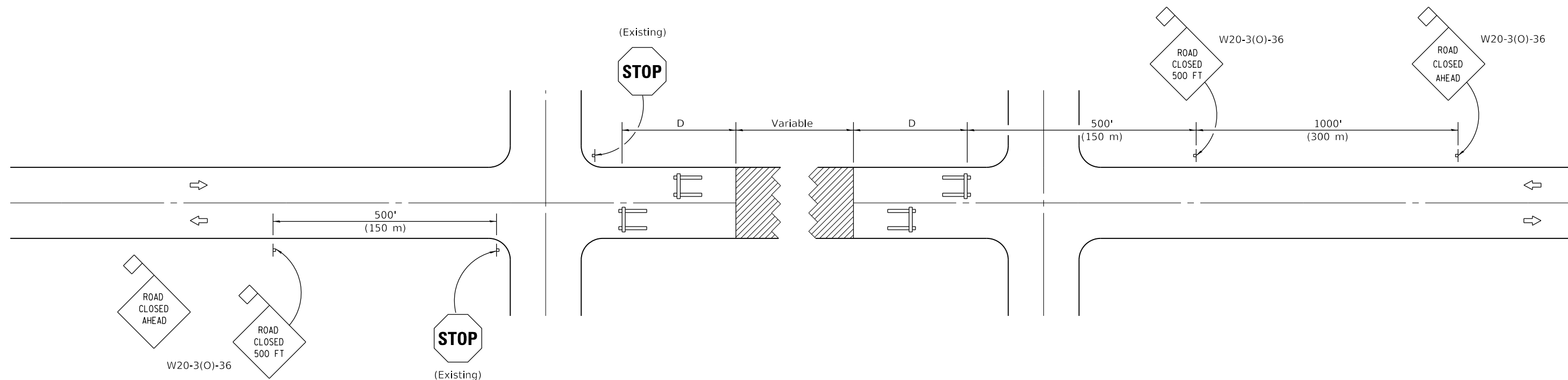
PASSED January 1, 2012
Danell Lewis
 ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2012
Scott S. Smith
 ENGINEER OF DESIGN AND ENVIRONMENT




ISSUED 1-1-97

**CONDITION I
APPROACH TRAFFIC STOPPED**

**CONDITION II
APPROACH TRAFFIC
DOES NOT STOP**



SYMBOLS

-  Work area
-  Type III Barricade
-  Sign with 18x18 (450x450) min. orange flag attached

GENERAL NOTES

Type III Barricades and R11-4-6030 signs shall be positioned as shown in the "Road Closed To All Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' (600 m), an additional set of barricades and R11-4-6030 shall be placed at each end of the work area.

Two Type A Low Intensity Flashing Lights shall be used on each approach in advance of the work area. One light shall be installed above each barricade. If only one barricade is required, the other light shall be installed above the first advance warning sign.

All warning signs shall have minimum dimensions of 36 x 36 (900 x 900) and have a black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

Longitudinal dimensions may be adjusted to fit field conditions.

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

DATE	REVISIONS
1-1-12	Omitted two notes from GENERAL NOTES.
1-1-09	Revised General Notes and switched units to English (metric).

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
(TWO-LANE TWO WAY RURAL TRAFFIC)
(ROAD CLOSED TO THRU TRAFFIC)

STANDARD B.L.R. 22-7

Illinois Department of Transportation

PASSED January 1, 2012
Donell Lewis
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2012
Scott Esdaile
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97