

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH D29	14-00113-04-BR	PEORIA	54	1
ILLINOIS		CONTRACT NO.	89745	

INDEX OF SHEETS

11-06-2020 LETTING ITEM 097

1. COVER
2. GENERAL NOTES AND LEGEND
- 3.-7. SUMMARY OF QUANTITIES
- 8.-10. TYPICAL SECTIONS
11. SCHEDULE OF QUANTITIES
12. ALIGNMENT, BENCHMARKS, AND TIES
13. DETOUR PLAN
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- 40.-47. IDOT DISTRICT 4 STANDARD DETAILS
- 48.-52. CROSS SECTIONS - BRIMFIELD-JUBILEE ROAD
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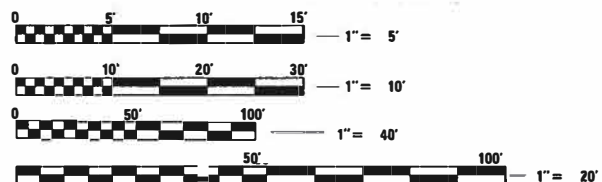
LIST OF STANDARDS

- | | |
|-------------|--|
| 000001-07 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 420406 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB |
| 515001-04 | NAME PLATES FOR BRIDGES |
| 542401-03 | METAL FLARED END SECTION FOR PIPE CULVERTS |
| 610001-08 | SHOULDER INLET WITH CURB |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE I (SPECIAL) GAURDRAIL TERMINALS |
| 631031-16 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 701311-03 | LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| 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

- | | |
|-----------|--------------------------------------|
| 205001-D4 | SLOPE STEPS DETAIL |
| 406101-D4 | BUTT JOINTS |
| 630101-D4 | GUARDRAIL EROSION CONTROL TREATMENTS |
| 780001-D4 | TYPICAL PAVEMENT MARKINGS |

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.

CONTRACT NO. 89745
CAT NO. 035571

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

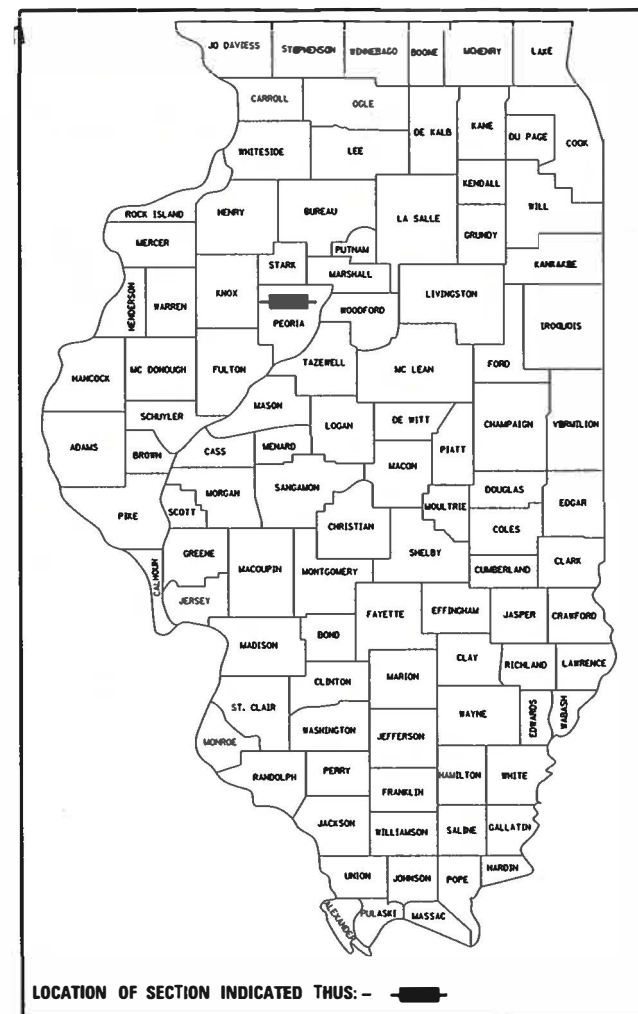
PLANS FOR PROPOSED BRIDGE REPLACEMENT

BRIMFIELD-JUBILEE ROAD (CH D29)
PEORIA COUNTY
SECTION 14-00113-04-BR
PROJECT NO. FVMT(981)
JOB NO. C-94-040-18



GROSS LENGTH = 499.91 FT. = 0.09 MILE
NET LENGTH = 499.91 FT. = 0.09 MILE

ADT (2017) = 525, ADT (2041) = 667, SU/MU=5%
HIGHWAY CLASS: III
FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR
DESIGN SPEED: 45 MPH
POSTED SPEED LIMIT: 55 MPH
DESIGN POLICY: BLR MANUAL 3R



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

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BRYCE A. BECKSTROM
062-062864
DATE SIGNED: 7/31/2020
LIC. EXP. DATE: 11/30/2021

APPROVED	AUGUST 4 20 20
	<i>Chris Beards</i> COUNTY ENGINEER
PASSED	08-18 20 20
	<i>Tom [Signature]</i> DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	8-18 20 20
	<i>Kenneth A. [Signature]</i> REGION THREE ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

DATE: 7/31/2020

Hanson Professional Services Inc.
7625 N. University St., Suite 200
Peoria, Illinois 61614
Offices Nationwide

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004	0010
				ROADWAY 80% FEDERAL 20% LOCAL	RURAL-BRIDGE 80% FEDERAL 20% LOCAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100	100	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	140	140	
20200100	EARTH EXCAVATION	CU YD	1307	1307	
20300100	CHANNEL EXCAVATION	CU YD	1045	1045	
20400800	FURNISHED EXCAVATION	CU YD	1841	1841	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4338	4338	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4338	4338	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	89	89	
28000305	TEMPORARY DITCH CHECKS	FOOT	27	27	
28000400	PERIMETER EROSION BARRIER	FOOT	582	582	
28000510	INLET FILTERS	EACH	2	2	
28100105	STONE RIPRAP, CLASS A3	SQ YD	20	20	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1572		1572
28200200	FILTER FABRIC	SQ YD	1716	144	1572
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD	124	124	

X SPECIALTY ITEMS

LAYOUT	RDH	9/27/2019
DRAWN	RLA	7/28/2020
REVIEWED	BAB	7/28/2020

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 PLOT DATE = 8/6/2020

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	3
CONTRACT NO.89745			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004	0010
				ROADWAY 80% FEDERAL 20% LOCAL	RURAL-BRIDGE 80% FEDERAL 20% LOCAL
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	559	559	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1916	1916	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	233	233	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	144	144	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	130	130	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	81	81	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	57	57	
44000100	PAVEMENT REMOVAL	SQ YD	762	762	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	252	252	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	197		197
50300225	CONCRETE STRUCTURES	CU YD	76.2		76.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	185.2		185.2
50300260	BRIDGE DECK GROOVING	SQ YD	577		577
50300300	PROTECTIVE COAT	SQ YD	764		764

X SPECIALTY ITEMS

LAYOUT	RDH	9/27/2019
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REVIEWED	BAB	7/28/2020

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		BAB	-
		DATE -	REVISED -
		7/31/2020	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
SUMMARY OF QUANTITIES

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	4
CONTRACT NO.89745			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004 ROADWAY 80% FEDERAL 20% LOCAL	0010 RURAL-BRIDGE 80% FEDERAL 20% LOCAL
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	89.2		89.2
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	1035		1035
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	86290		86290
51201900	FURNISHING STEEL PILES HP14X89	FOOT	340		340
51202305	DRIVING PILES	FOOT	340		340
51203900	TEST PILE STEEL HP14X89	EACH	2		2
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	20		20
54210182	PIPE ELBOW, 12"	EACH	4	4	
54213447	END SECTIONS 12"	EACH	2	2	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	192		192
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	88		88
60100945	PIPE DRAINS 12"	FOOT	88	88	
61000050	CONCRETE THRUST BLOCKS	EACH	2	2	

X SPECIALTY ITEMS

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DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	5
			CONTRACT NO. 89745	
[ILLINOIS] FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004 ROADWAY 80% FEDERAL 20% LOCAL	0010 RURAL-BRIDGE 80% FEDERAL 20% LOCAL
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	2	2	
X 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125	
X 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
X 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	147	147	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
X 72000100	SIGN PANEL - TYPE 1	SQ FT	5.6	5.6	
X 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
X 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	17	17	
X 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	454	454	
X 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	454	454	
XX006343	SEEDING (COMPLETE)	SQ YD	4338	4338	

X SPECIALTY ITEMS

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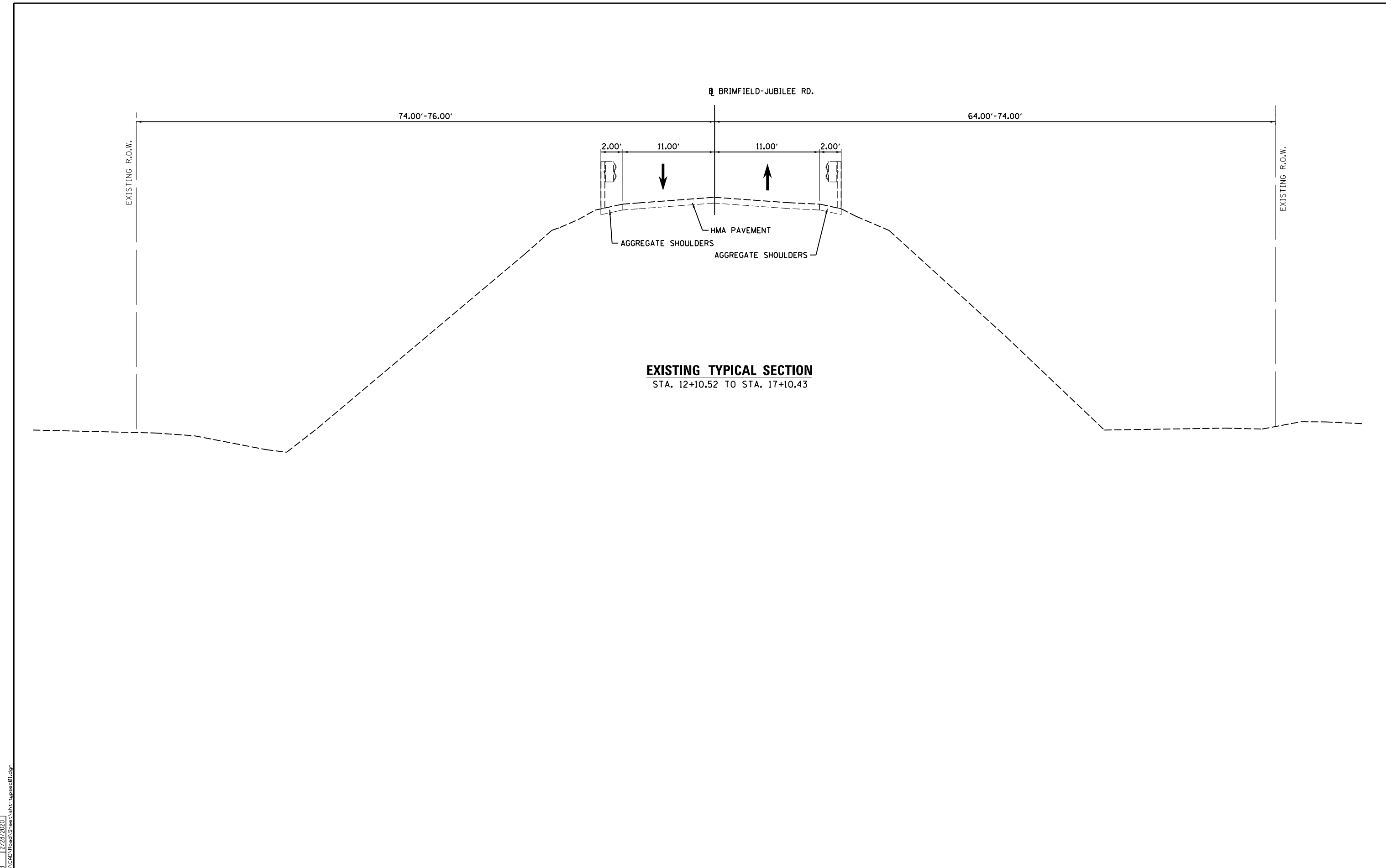
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PLT DATE =	8/6/2020		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
SUMMARY OF QUANTITIES

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	6
CONTRACT NO.89745			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION
 STA. 12+10.52 TO STA. 17+10.43

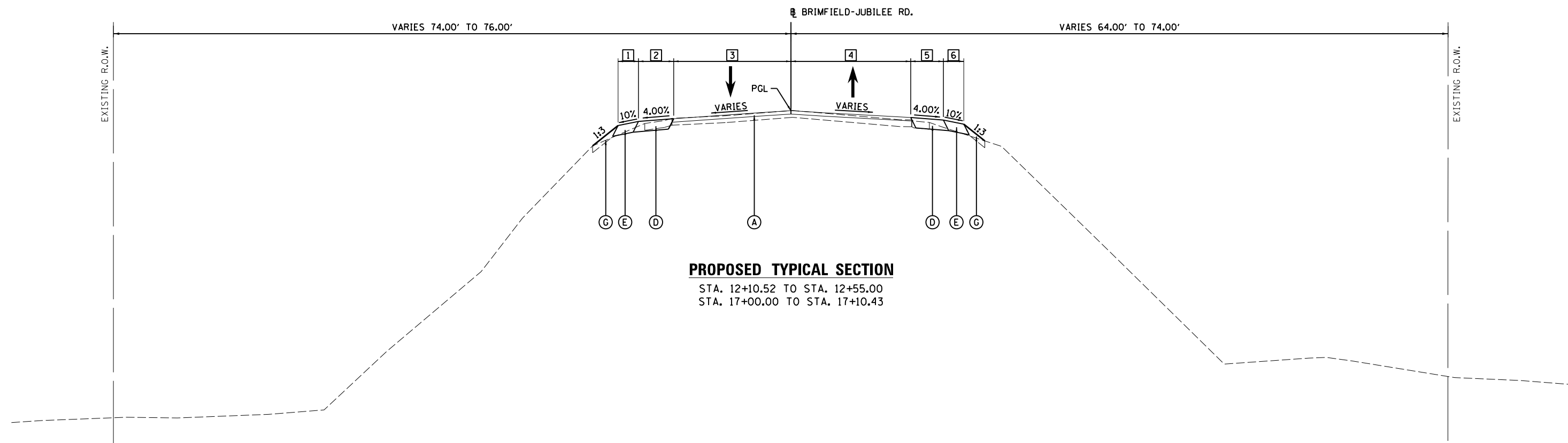
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD			
EXISTING TYPICAL SECTIONS			
SCALE: NTS	SHEET	OF SHEETS	STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	8
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

STA. 12+10.52 TO STA. 12+55.00
 STA. 17+00.00 TO STA. 17+10.43

STRUCTURAL DESIGN TRAFFIC:	YEAR 2031	ADT 604
PV = 95.0%	SU = 2.0%	MU = 3.0%
ROAD/STREET CLASSIFICATION:	CLASS III	
PERCENTAGE OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE		
P = 50%	S = 50%	M = 50%
TRAFFIC FACTOR:	ACTUAL TF = 0.116	AC TYPE = N/A
	MINIMUM TF = N/A	
PG GRADE:	Binder = 58-22	Surface = 58-22
SUBGRADE SUPPORT RATING:		
	SSR = POOR	(STA. 12+10.52 TO 17+10.43)
	SSR =	(STA. TO)

- 1 AGGREGATE WIDTH - LEFT
 STA. 12+10.52 TO STA. 12+55.00 = 0.00'
 STA. 17+00.00 TO STA. 17+04.65 = TRANSITIONS FROM 0.78' TO 0.00'
 STA. 17+04.65 TO STA. 17+10.43 = 0.00'
- 2 SHOULDER WIDTH - LEFT
 STA. 12+10.52 TO STA. 12+55.00 = TRANSITIONS FROM 2.86' TO 3.88'
 STA. 17+00.00 TO STA. 17+10.43 = TRANSITIONS FROM 3.46' TO 2.31'
- 3 LANE WIDTH - LEFT
 STA. 12+10.52 TO STA. 12+55.00 = TRANSITIONS FROM 11.66' TO 11.12'
 STA. 17+00.00 TO STA. 17+10.43 = TRANSITIONS FROM 11.54' TO 11.73'
- 4 LANE WIDTH - RIGHT
 STA. 12+10.52 TO STA. 12+55.00 = TRANSITIONS FROM 12.03' TO 11.19'
 STA. 17+00.00 TO STA. 17+10.43 = TRANSITIONS FROM 11.86' TO 12.16'
- 5 SHOULDER WIDTH - RIGHT
 STA. 12+10.52 TO STA. 12+55.00 = TRANSITIONS FROM 1.72' TO 3.81'
 STA. 17+00.00 TO STA. 17+10.43 = TRANSITIONS FROM 3.97' TO 3.61'
- 6 AGGREGATE WIDTH - RIGHT
 STA. 12+10.52 TO STA. 12+18.03 = 0.00'
 STA. 12+18.03 TO STA. 12+42.03 = TRANSITIONS FROM 0.00' TO 4.00'
 STA. 12+42.03 TO STA. 12+55.00 = 4.00'
 STA. 17+00.00 TO STA. 17+10.43 = 0.00'

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) HOT-MIX ASPHALT SHOULDERS, 6"
- (E) GUARDRAIL AGGREGATE EROSION CONTROL, 6"
- (F) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (G) TOPSOIL FURNISH AND PLACE, 4"

HMA MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION:	BRIMFIELD-JUBILEE ROAD	
MIXTURE USE(S):	HMA SURFACE COURSE HMA SHOULDER (SURFACE LIFT)	HMA BINDER COURSE HMA SHOULDER (LOWER LIFT)
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
FRICTION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112 LB/SO YD/IN	112 LB/SO YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/OA	QC/OA
SUBLOT SIZE:	N/A	N/A

LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

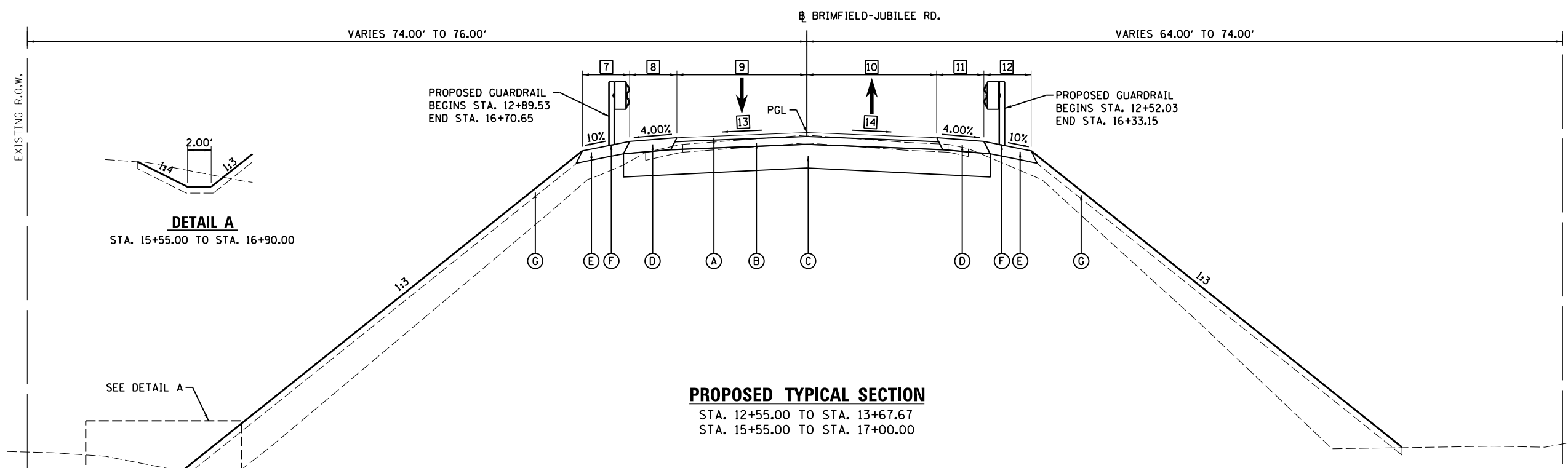
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 PROPOSED TYPICAL SECTIONS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	9
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ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

STA. 12+55.00 TO STA. 13+67.67
 STA. 15+55.00 TO STA. 17+00.00

BRIDGE OMISSION
 STA 13+67.67 TO STA 15+55.00

- 7** AGGREGATE WIDTH - LEFT
 STA. 12+55.00 TO STA. 12+55.53 = 0.00'
 STA. 12+55.53 TO STA. 12+79.53 = TRANSITIONS FROM 0.00' TO 4.00'
 STA. 12+79.53 TO STA. 13+67.67 = 4.00'
 STA. 15+55.00 TO STA. 16+80.65 = TRANSITIONS FROM 4.00' TO 0.78'
- 8** SHOULDER WIDTH - LEFT
 STA. 12+55.00 TO STA. 12+65.00 = TRANSITIONS FROM 3.88' TO 4.00'
 STA. 12+65.00 TO STA. 13+67.67 = 4.00'
 STA. 15+55.00 TO STA. 16+70.00 = 4.00'
 STA. 16+70.00 TO STA. 17+00.00 = TRANSITIONS FROM 4.00' TO 3.46'
- 9** LANE WIDTH - LEFT
 STA. 12+55.00 TO STA. 12+65.00 = TRANSITIONS FROM 11.12' TO 11.00'
 STA. 12+65.00 TO STA. 13+67.67 = 11.00'
 STA. 15+55.00 TO STA. 16+70.00 = 11.00'
 STA. 16+70.00 TO STA. 17+00.00 = TRANSITIONS FROM 11.00' TO 11.54'
- 10** LANE WIDTH - RIGHT
 STA. 12+55.00 TO STA. 12+65.00 = TRANSITIONS FROM 11.19' TO 11.00'
 STA. 12+65.00 TO STA. 13+67.67 = 11.00'
 STA. 15+55.00 TO STA. 16+70.00 = 11.00'
 STA. 16+70.00 TO STA. 17+00.00 = TRANSITIONS FROM 11.00' TO 11.86'

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)** HOT-MIX ASPHALT SHOULDERS, 6"
- (E)** GUARDRAIL AGGREGATE EROSION CONTROL, 6"
- (F)** STEEL PLATE BEAM GUARDRAIL, TYPE A
- (G)** TOPSOIL FURNISH AND PLACE, 4"

- 11** SHOULDER WIDTH - RIGHT
 STA. 12+55.00 TO STA. 12+65.00 = TRANSITIONS FROM 3.81' TO 4.00'
 STA. 12+65.00 TO STA. 13+67.67 = 4.00'
 STA. 15+55.00 TO STA. 17+00.00 = 4.00'
- 12** AGGREGATE WIDTH - RIGHT
 STA. 12+55.00 TO STA. 13+67.67 = 4.00'
 STA. 15+55.00 TO STA. 16+43.15 = 4.00'
 STA. 16+43.15 TO STA. 16+67.15 = TRANSITIONS FROM 4.00' TO 0.00'
 STA. 16+67.15 TO STA. 17+00.00 = 0.00'
- 13** LANE SLOPE - LEFT
 STA. 12+55.00 TO STA. 13+00.00 = TRANSITION FROM -3.09% TO -2.00%
 STA. 13+00.00 TO STA. 13+67.67 = -2.00%
 STA. 15+55.00 TO STA. 16+85.00 = -2.00%
 STA. 16+85.00 TO STA. 17+00.00 = TRANSITION FROM -2.00% TO -2.62%
- 14** LANE SLOPE - RIGHT
 STA. 12+55.00 TO STA. 13+00.00 = TRANSITION FROM -3.75% TO -2.00%
 STA. 13+00.00 TO STA. 13+67.67 = -2.00%
 STA. 15+55.00 TO STA. 16+55.00 = -2.00%
 STA. 16+55.00 TO STA. 17+00.00 = TRANSITION FROM -2.00% TO -3.92%

LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 PROPOSED TYPICAL SECTIONS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	10
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

HMA PAVEMENT AND SHOULDER SCHEDULE								
LOCATION		31100100	40600295	40600290	40603080	40604050	42000070	48203021
		SUBBASE GRANULAR MATERIAL, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	HOT-MIX ASPHALT SHOULDERS, 6"
BEGIN STATION	END STATION	TON	POUND	POUND	TON	TON	SQ YD	SQ YD
BRIMFIELD-JUBILEE								
12+10.52	13+67.67	234	845	118	56	41	33	125
15+55.00	17+10.43	325	1,071	115	74	40	24	127
TOTAL		559	1,916	233	130	81	57	252

SIGN SCHEDULE					
LOCATION			72000100	72800100	
			SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	
STATION	LT/RT	PANEL	DESCRIPTION	SQ FT	FOOT
BRIMFIELD-JUBILEE					
15+50.00	RT	W14-3	NO PASSING ZONE	5.6	17
TOTAL				5.6	17

GUARDRAIL SCHEDULE							
LOCATION		63000001	63100085	63100167	72501000	78200005	Z0001002
		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	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	EACH	TON
BRIMFIELD-JUBILEE							
12+10.52	13+67.67	62.5	2	2	2	8	41
15+55.00	17+10.43	62.5	2	2	2	8	41
TOTAL		125	4	4	4	16	82

ARTICULATED BLOCK REVETMENT MAT SCHEDULE			
LOCATION		28200200	28500400
		FILTER FABRIC	ARTICULATED BLOCK REVETMENT MAT
BEGIN STATION	END STATION	SQ YD	SQ YD
BRIMFIELD-JUBILEE			
12+10.52	17+10.43	124	124
TOTAL		124	124

TEMPORARY DITCH CHECK SCHEDULE		
LOCATION		28000305
		TEMPORARY DITCH CHECKS
STATION	OFFSET	FOOT
BRIMFIELD-JUBILEE		
15+25.00	58.18' LT	9
15+70.00	58.26' LT	9
16+50.00	58.53' LT	9
TOTAL		27

TOPSOIL, SEEDING, AND RIPRAP 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
BRIMFIELD-JUBILEE						
12+10.52	13+67.67	2,242	2,242	46	405	2,242
15+55.00	17+10.43	2,096	2,096	43	177	2,096
TOTAL		4,338	4,338	89	582	4,338

PAVEMENT MARKING SCHEDULE			
LOCATION		78009004	X7830070
		MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	GROOVING FOR RECESSED PAVEMENT MARKING 5"
BEGIN STATION	END STATION	FOOT	FOOT
BRIMFIELD-JUBILEE			
12+10.52	17+10.43	454	454
TOTAL		454	454

REMOVAL SCHEDULE				
LOCATION		40600982	44000100	63200310
		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	GUARDRAIL REMOVAL
BEGIN STATION	END STATION	SQ YD	SQ YD	FOOT
BRIMFIELD-JUBILEE				
12+10.52	13+90.00	116	337	49
15+32.67	17+10.43	28	425	98
TOTAL		144	762	147

TREE REMOVAL SCHEDULE				
LOCATION		20100110	20100210	
		TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	
STATION	OFFSET	UNIT	UNIT	
BRIMFIELD-JUBILEE				
12+30.94	52.00' RT		36	
12+41.56	45.13' LT		24	
12+57.63	40.05' RT	6		
12+66.21	43.53' RT	8		
12+98.39	55.22' RT		40	
13+04.65	51.59' LT		24	
13+38.55	61.14' RT	10		
14+20.67	55.77' RT	6		
14+30.85	37.35' RT		16	
14+93.30	57.98' RT	6		
14+95.08	56.53' RT	6		
15+13.84	50.72' RT	8		
15+44.29	37.12' RT	8		
15+55.58	57.23' RT	10		
15+63.25	38.21' RT	10		
15+88.49	59.03' RT	10		
16+19.32	56.22' RT	12		
TOTAL		100	140	

EARTHWORK SUMMARY								
LOCATION		20200100	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR 25% SHRINKAGE		EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	20400800	20300100
		EARTH EXCAVATION	CU YD		CU YD	CU YD	FURNISHED EXCAVATION	CHANNEL EXCAVATION
BEGIN STATION	END STATION	CU YD	CU YD		CU YD	CU YD	CU YD	CU YD
BRIMFIELD-JUBILEE ROAD								
12+10.52	13+97.67	618	464		1,568	-1,104	1,104	
15+25.00	17+10.43	689	517		1,154	-637	637	
JUBILEE CREEK								
TOTAL		1,307	981		2,822	-1,841	1,841	1,045

INLET FILTERS SCHEDULE			
LOCATION		28000510	
		INLET FILTERS	
STATION	OFFSET	EACH	
BRIMFIELD-JUBILEE			
15+60.62	13.01' LT	1	
15+60.62	13.01' RT	1	
TOTAL		2	

RIPRAP SCHEDULE				
LOCATION		28100105	28100107	28200200
		STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	OFFSET	SQ YD	SQ YD	SQ YD
BRIMFIELD-JUBILEE				
15+60.62	55.00' RT	12	12	
15+60.62	58.70' LT	8	8	
FROM STRUCTURE PLANS			1,572	1,572
FROM BLOCK MAT SCHEDULE				124
TOTAL		20	1,572	1,716

LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

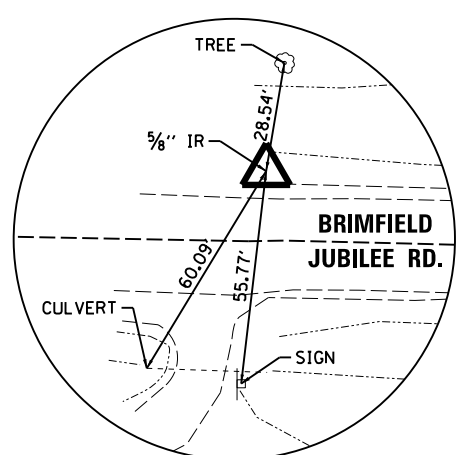
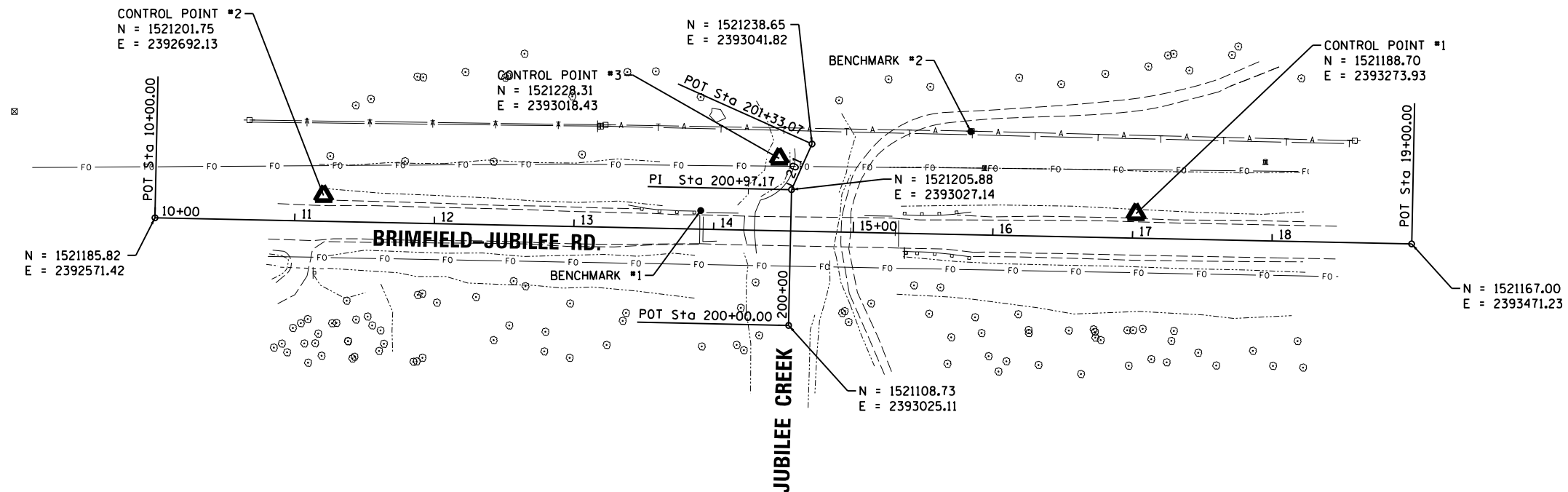
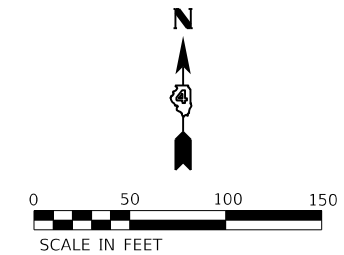
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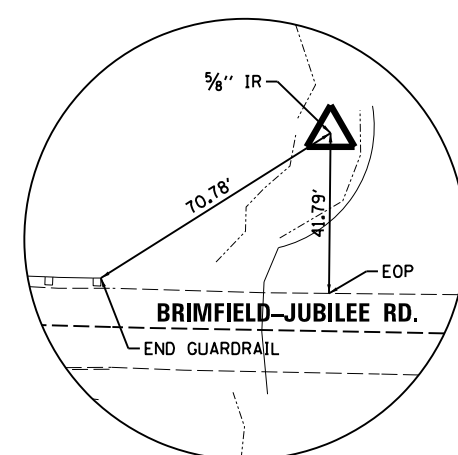
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD SCHEDULE OF QUANTITIES			
SCALE: NTS	SHEET	OF SHEETS	STA. TO STA.

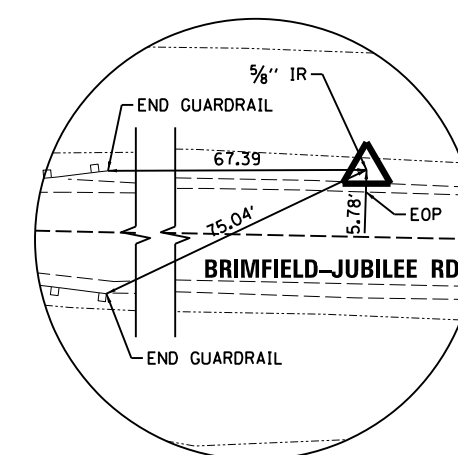
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	11
CONTRACT NO. 89745				
ILLINOIS FED. AID PROJECT				



CONTROL POINT #2
 5/8" IRON ROD



CONTROL POINT #3
 5/8" IRON ROD



CONTROL POINT #1
 5/8" IRON ROD

- BENCHMARK #1 PEORIA COUNTY BRASS DISK ON BRIDGE ABUTMENT
 ELEV. = 587.44
- BENCHMARK #2 SET R.R. SPIKE IN POWER POLE NORTH EAST SIDE OF BRIDGE APPROXIMATELY 75' NORTH OF EDGE OF PAVEMENT.
 ELEV. = 576.20

LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

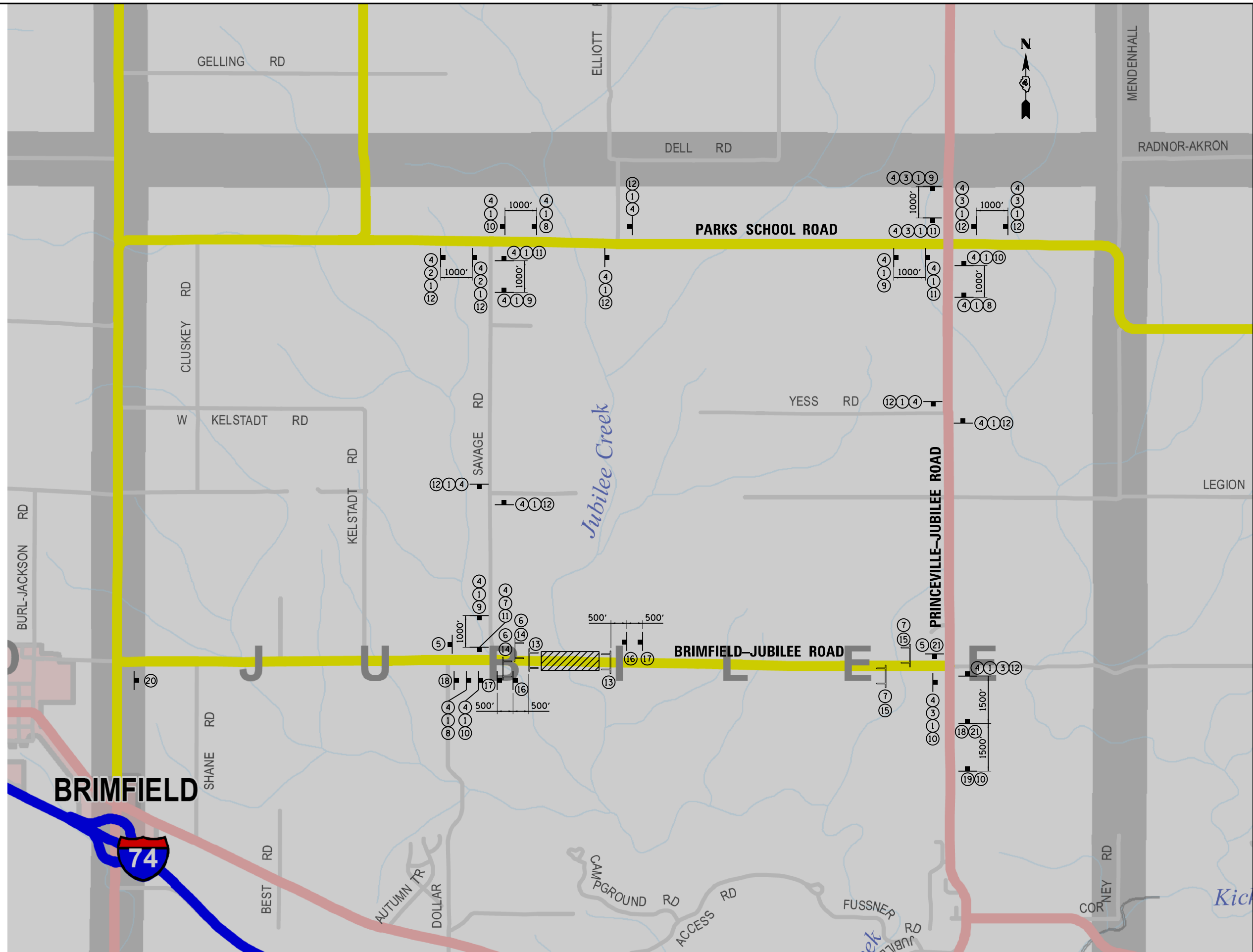
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BRIMFIELD-JUBILEE ROAD ALIGNMENTS, BENCHMARKS, AND TIES			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	12
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

- ① **Brimfield-Jubilee Rd**
- ② **EAST** M3-1 24"x12" ③ **WEST** M3-3 24"x12"
- ④ **DETOUR** M4-8 24"x18" ⑤ **END DETOUR** M4-8a 24"x18"
- ⑥ **DETOUR** M4-10L 48"x18"
- ⑦ **DETOUR** M4-10R 48"x18"
- ⑧ **LEFT** M5-1L 21"x15" ⑨ **RIGHT** M5-1R 21"x15"
- ⑩ **LEFT** M6-1L 21"x15" ⑪ **RIGHT** M6-1R 21"x15"
- ⑫ **UP** M6-3 21"x15"
- ⑬ **ROAD CLOSED** R11-2 48"x30"
- ⑭ **BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY** R11-3b 60"x30"
- ⑮ **BRIDGE OUT 2 MILES AHEAD LOCAL TRAFFIC ONLY** R11-3b 60"x30"
- ⑯ **ROAD CLOSED 500 FT** W20-3 36"x36"
- ⑰ **ROAD CLOSED 1000 FT** W20-3 36"x36"
- ⑱ **DETOUR 1500 FT** W20-2 36"x36"
- ⑲ **ROAD CLOSED 2 MILES** W20-3 36"x36"
- ⑳ **ROAD CLOSED 2 MILES** W20-3 36"x36"
- ㉑ **Equestrian Area accessible via Brimfield-Jubilee Rd**



LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020
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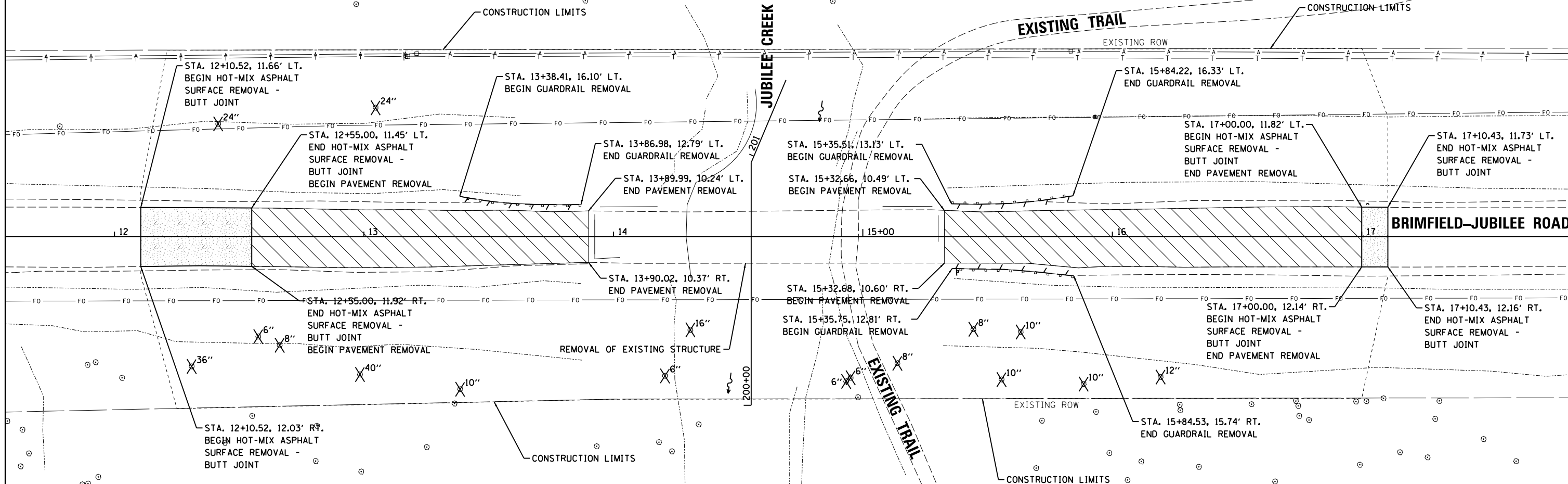
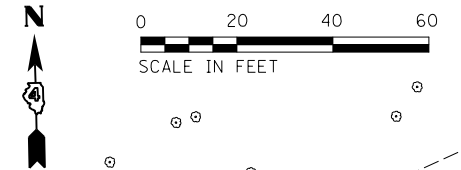
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 DETOUR PLAN**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	13
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				


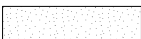
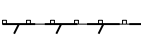

ILLINOIS DEPARTMENT OF NATURAL RESOURCES



ILLINOIS DEPARTMENT OF NATURAL RESOURCES



LEGEND

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

LAYOUT	RDH	9/27/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
REMOVAL PLAN

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

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	14
CONTRACT NO.89745				

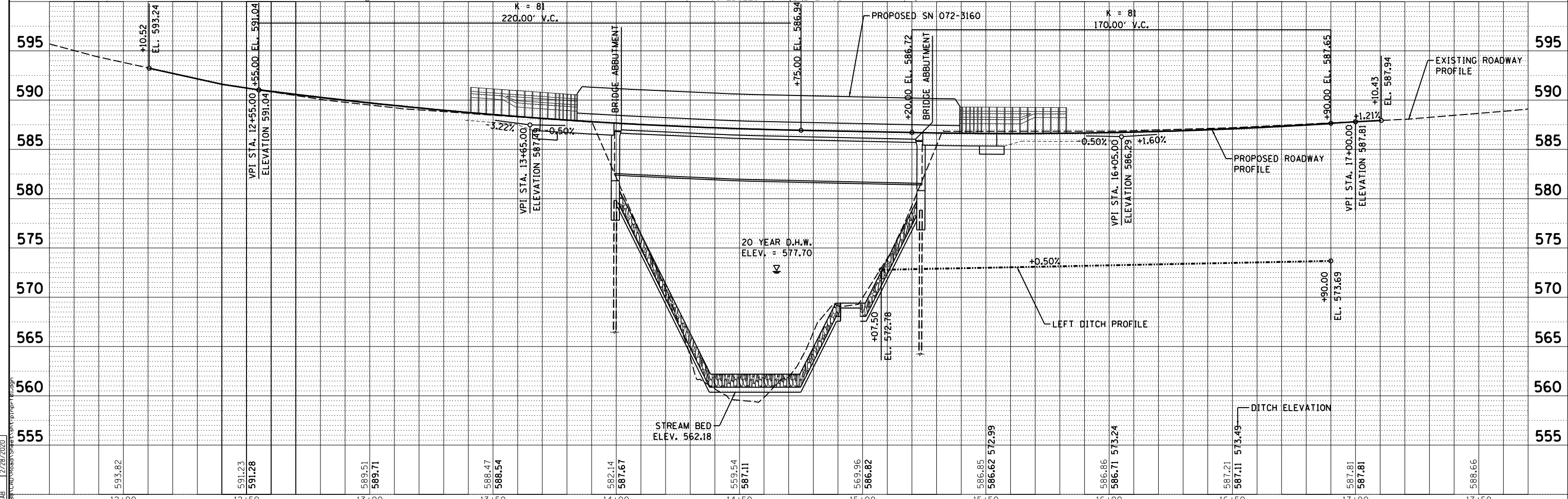
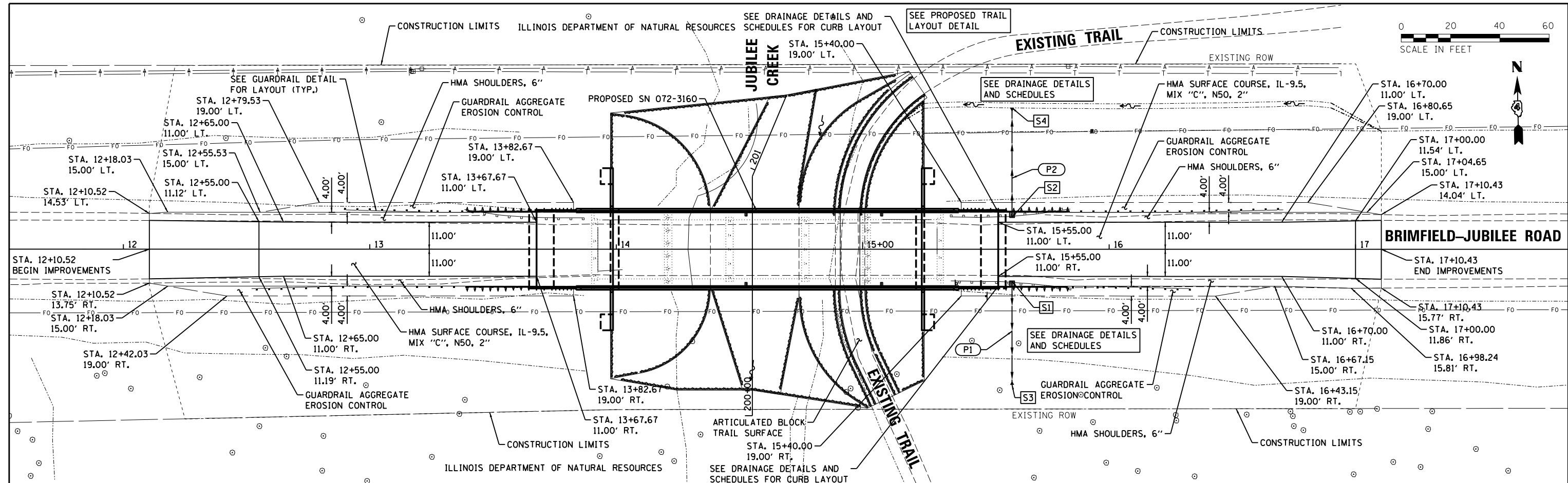
ILLINOIS FED. AID PROJECT

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PLAN	
SURVEYED	
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BY	
PROFILE	
SURVEYED	
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STRUCTURE NOTATIONS OK'D	
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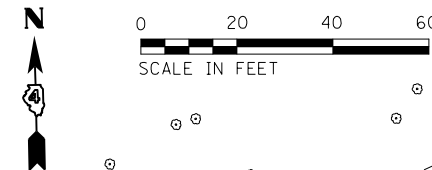
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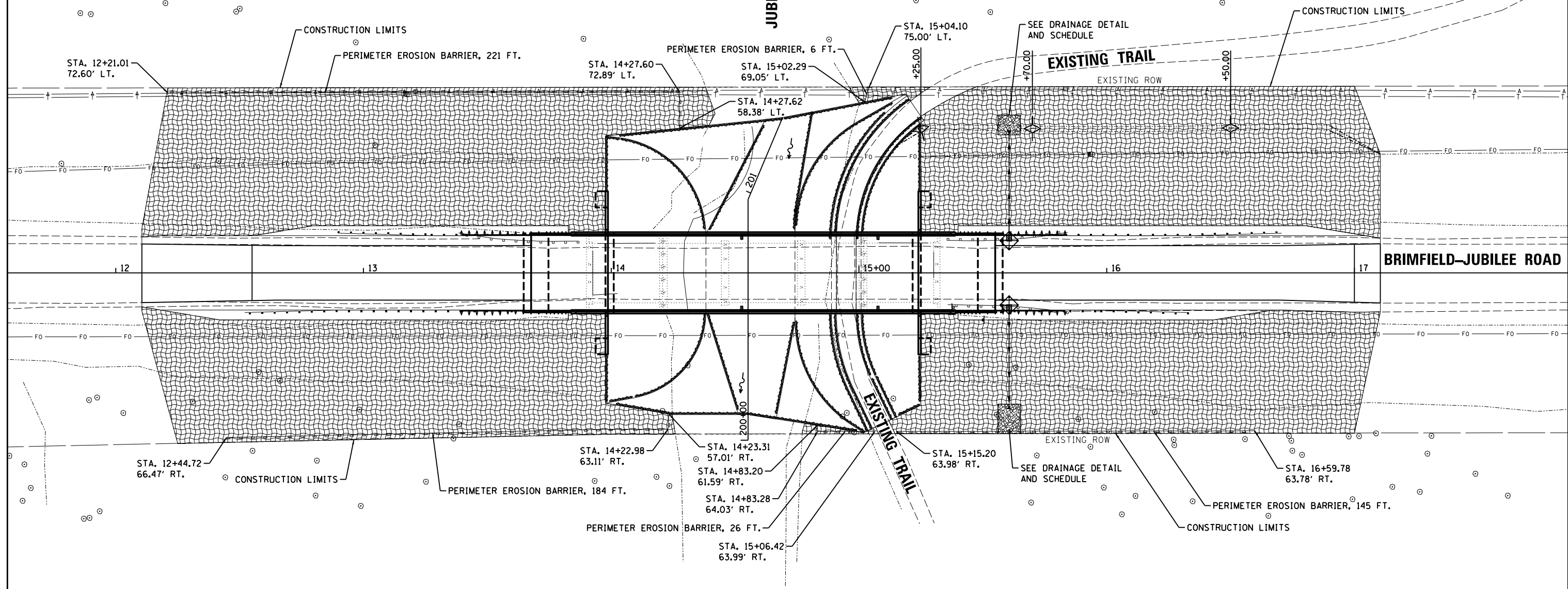
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		DATE - 7/31/2020	REVISED -					ILLINOIS FED. AID PROJECT				



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



JUBILEE CREEK



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LEGEND

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

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DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

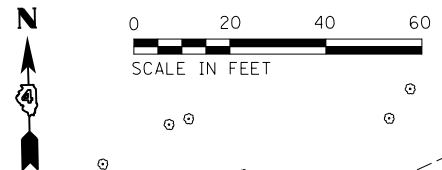
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
EROSION CONTROL PLAN**

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

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	17
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				



ILLINOIS DEPARTMENT OF NATURAL RESOURCES

JUBILEE CREEK

EXISTING TRAIL

EXISTING ROW

STEEL BEAM PLATE GUARDRAIL,
TYPE A, 6 FOOT POSTS

STEEL BEAM PLATE GUARDRAIL,
TYPE A, 6 FOOT POSTS

TRAFFIC BARRIER
TERMINAL, TYPE 1
(SPECIAL) TANGENT

TRAFFIC BARRIER
TERMINAL, TYPE 6

TRAFFIC BARRIER
TERMINAL, TYPE 6

TRAFFIC BARRIER
TERMINAL, TYPE 1
(SPECIAL) TANGENT

TRAFFIC BARRIER
TERMINAL, TYPE 1
(SPECIAL) TANGENT

TRAFFIC BARRIER
TERMINAL, TYPE 6

TRAFFIC BARRIER
TERMINAL, TYPE 6

TRAFFIC BARRIER
TERMINAL, TYPE 1
(SPECIAL) TANGENT

STEEL BEAM PLATE GUARDRAIL,
TYPE A, 6 FOOT POSTS

STEEL BEAM PLATE GUARDRAIL,
TYPE A, 6 FOOT POSTS

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

EXISTING TRAIL

EXISTING ROW

BRIMFIELD-JUBILEE ROAD



LAYOUT	RDH	9/27/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020

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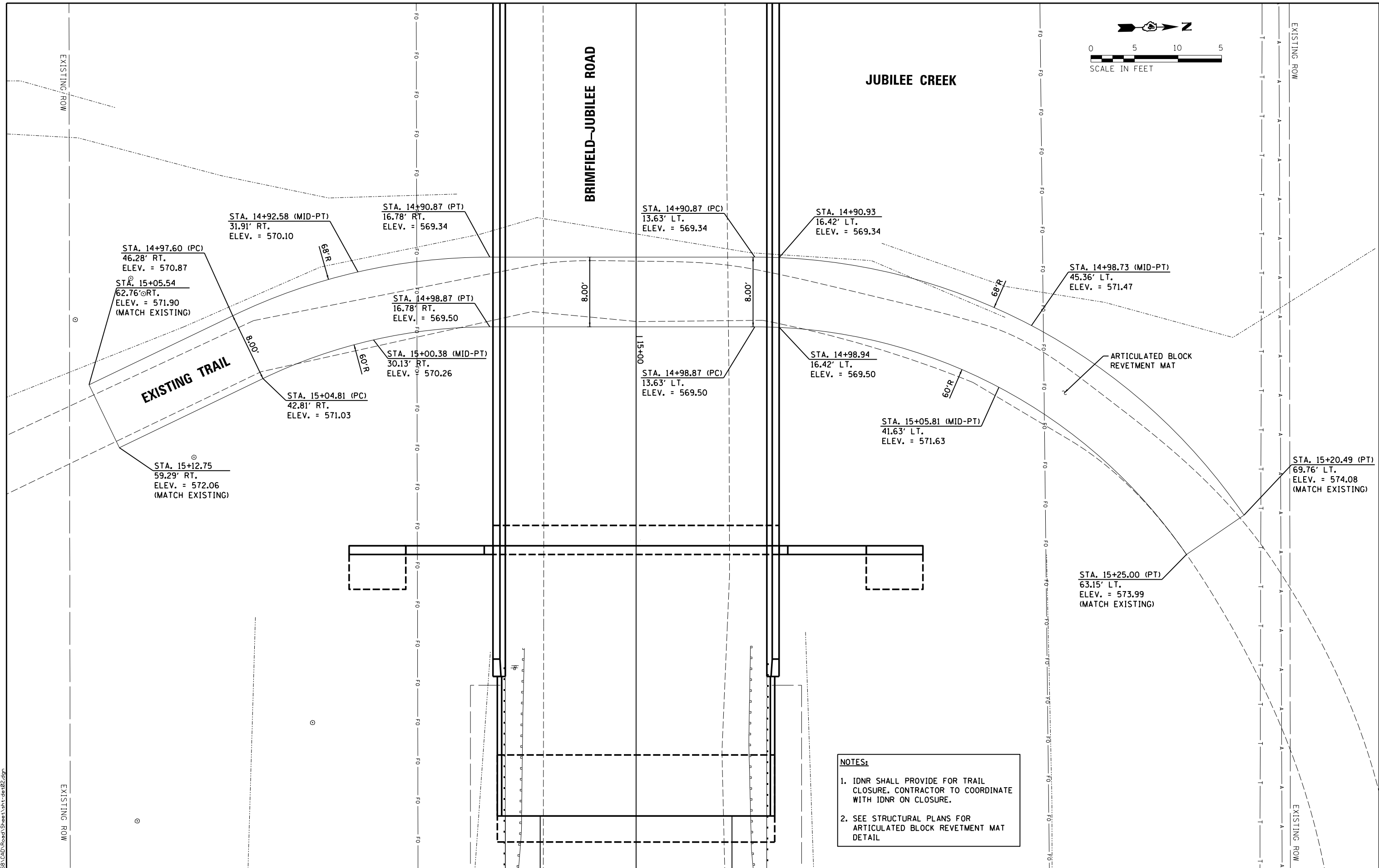
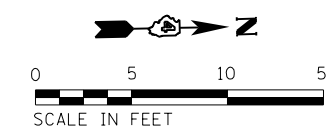
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
GUARDRAIL DETAIL

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

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	18
CONTRACT NO.89745				

ILLINOIS FED. AID PROJECT



NOTES:

1. IDNR SHALL PROVIDE FOR TRAIL CLOSURE. CONTRACTOR TO COORDINATE WITH IDNR ON CLOSURE.
2. SEE STRUCTURAL PLANS FOR ARTICULATED BLOCK REVETMENT MAT DETAIL

LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020
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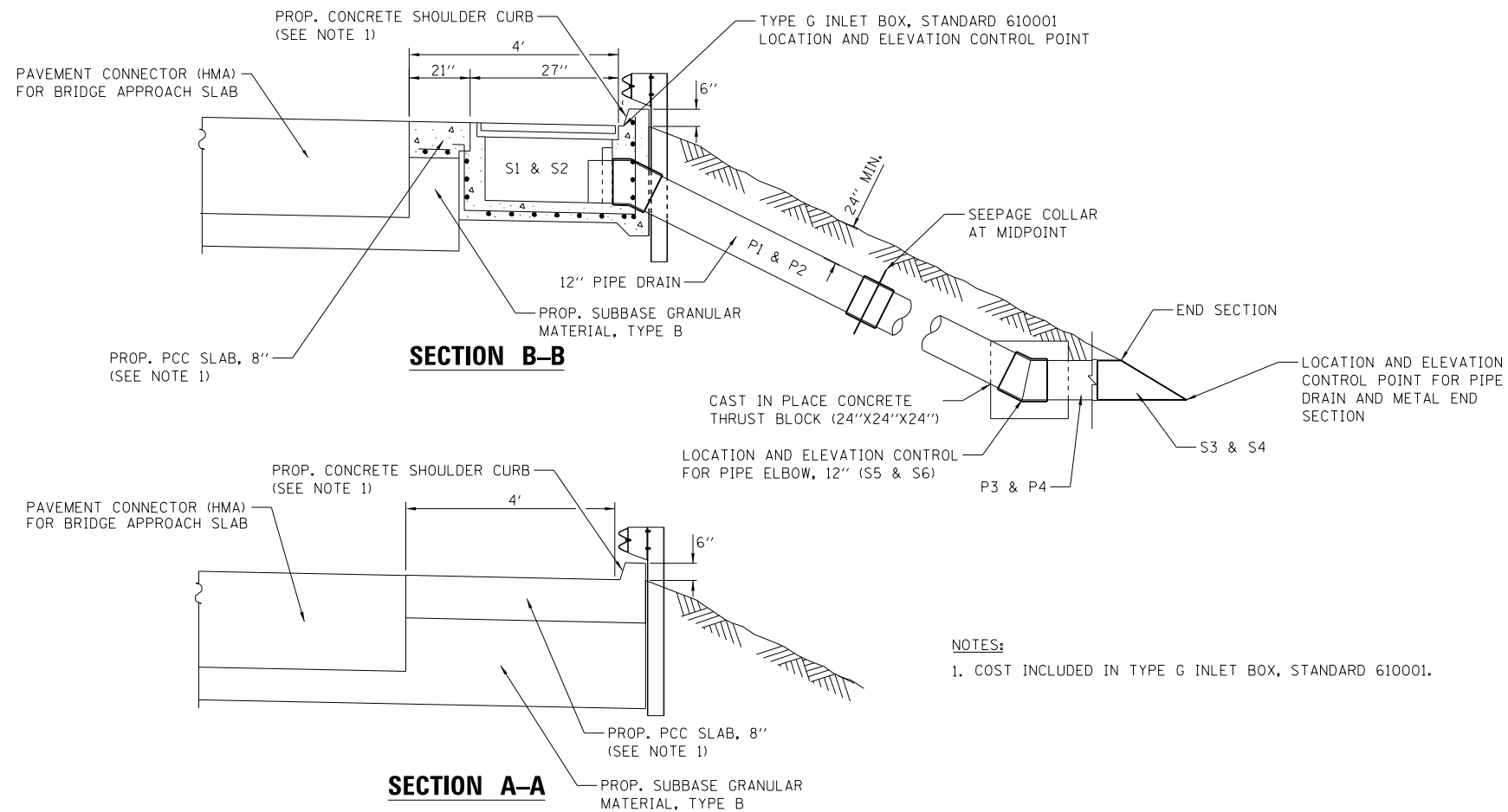
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REVISION -	
DATE -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

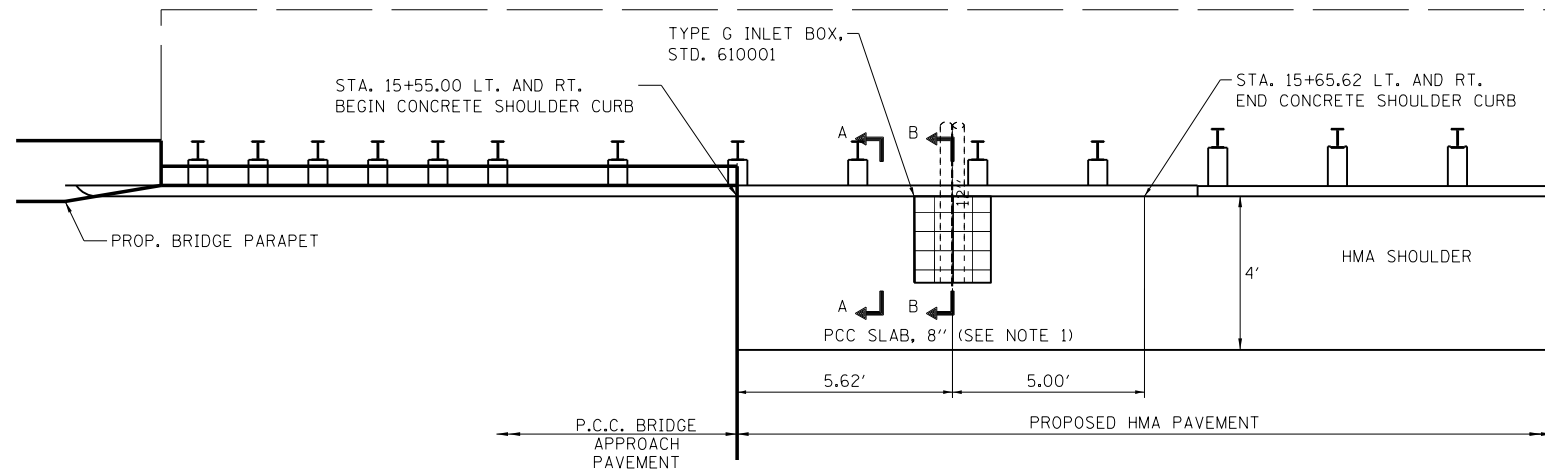
**BRIMFIELD-JUBILEE ROAD
 PROPOSED TRAIL LAYOUT DETAIL**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	19
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

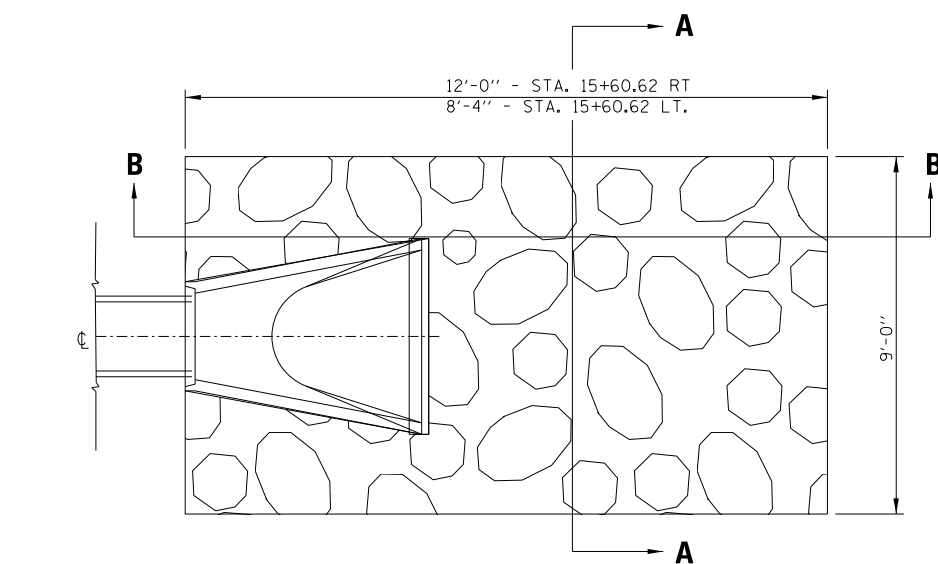


NOTES:
 1. COST INCLUDED IN TYPE G INLET BOX, STANDARD 610001.

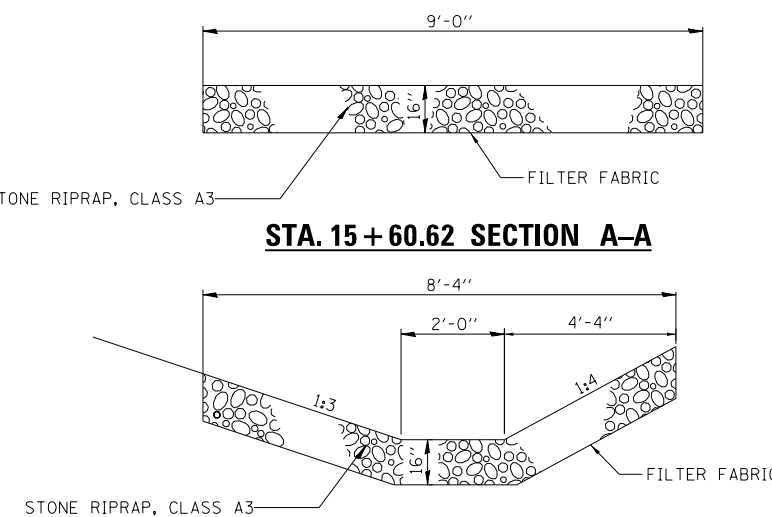


INLET BOX AND PIPE DRAIN DETAIL

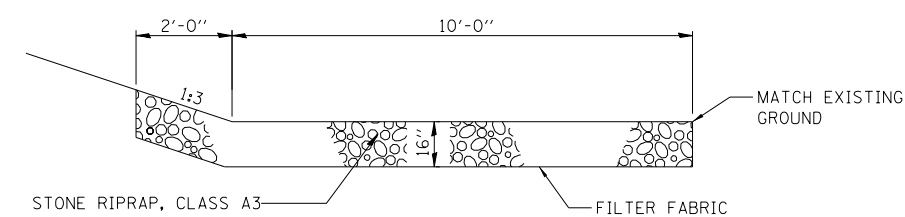
PIPE STRUCTURE SCHEDULE							60100945	Z0064540
LOCATION						PIPE DRAINS 12"	SEEPAGE COLLAR	
PIPE NUMBER	FROM STRUCTURE S-NUMBER	TO STRUCTURE S-NUMBER	PIPE SLOPE %	INVERT ELEV	INVERT ELEV	FOOT	EACH	
BRIMFIELD-JUBILEE ROAD								
P1	S1	S5	33.3%	583.57	573.95	32	1	
P2	S2	S6	33.3%	583.57	573.16	36	1	
P3	S5	S3	1.0%	573.95	573.83	10		
P4	S6	S4	1.0%	573.16	573.04	10		
TOTAL						88	2	



STA. 15+60.62 SECTION A-A



STA. 15+60.62 LT SECTION B-B



STA. 15+60.62 RT SECTION B-B

DRAINAGE STRUCTURE SCHEDULE										
LOCATION					28100105	28200200	54210182	54213447	61000050	61000335
STR	STATION	OFFSET	RIM ELEV	INVERT ELEV	STONE RIPRAP, CLASS A3	FILTER FABRIC	PIPE ELBOW, 12"	END SECTIONS 12"	CONCRETE THRUST BLOCKS	TYPE G INLET BOX, STANDARD 610001
					SQ YD	SQ YD	EACH	EACH	EACH	EACH
BRIMFIELD-JUBILEE ROAD										
S1	15+60.62	15.0	RT	586.24			1			1
S2	15+60.62	15.0	LT	586.24			1			1
S3	15+60.62	55.0	RT	--	12	12		1		
S4	15+60.62	58.7	LT	--	8	8		1		
S5	15+60.62	42.7	RT	--			1		1	
S6	15+60.62	46.4	LT	--			1		1	
TOTAL					20	20	4	2	2	2

LAYOUT	RDH	9/21/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020
DATE		

FILE NAME =	USER NAME = onder00846	DESIGNED - RDH	REVISED -
I:\16\jobs\16L0568\CAD\Road\Sheet\sh-t-de003.dgn		DRAWN - RLA	REVISED -
Default		CHECKED - BAB	REVISED -
		DATE - 7/31/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 DRAINAGE DETAILS AND SCHEDULES**

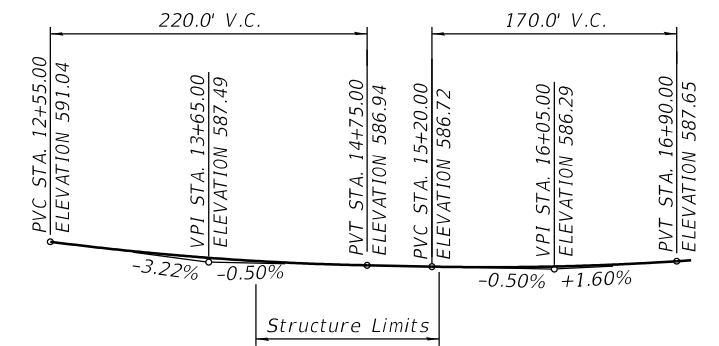
SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	20
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

B.M.- Set R.R. spike in power pole northeast side of bridge approximately 75 ft. north of edge of pavement. Elev. 576.20

Existing Structure - Structure No. 072-3010. Originally constructed in 1967 and consisted of a three-span steel beam and concrete deck superstructure on pile bent piers and abutments. In 1990 the structure was lengthened by adding additional spans to both ends of the bridge. The new spans consist of PPC deck beams supported by new pile bent abutments. The original abutments were replaced with new pile bent piers. The bridge width is approximately 24 ft. wide. The length of the current 5 span bridge is approximately 142.7 ft. end-to-end. Existing structure to be removed and replaced. Road will be closed during construction.

Salvage- None



PROPOSED PROFILE GRADE
(Along C of Roadway)

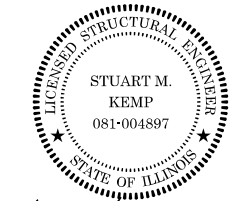
WATERWAY INFORMATION

Drainage Area = 14.33 Sq. Mi. Low Grade Elev. = 586.62 @ Sta. 15+60.53

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Ten-Year	10	2760	607	650	576.3	0.6	0.5	576.9	576.8
Design	20	3572	679	727	577.0	0.9	0.7	577.9	577.7
Base	100	5310	818	872	578.3	1.3	1.1	579.6	579.4

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
	W. Abut.	E. Abut.	Item 113
Design	577.81	576.84	8
Check	577.81	576.84	8



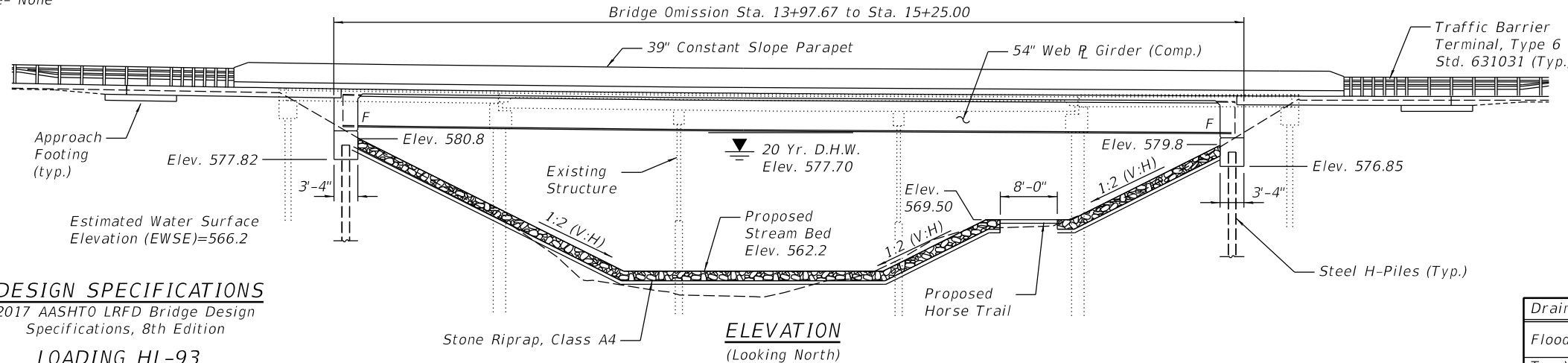
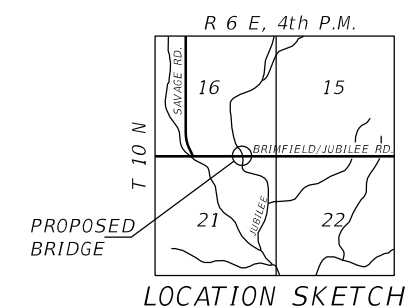
Stuart M. Kemp
SIGNATURE

7/7/2020
DATE

LIC. EXP. DATE: 11/30/2020

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE 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 BRIDGE DESIGN SPECIFICATIONS'."

GENERAL PLAN
BRIMFIELD JUBILEE ROAD
OVER JUBILEE CREEK TRIBUTARY
FAS 1386 - SEC. 14-00113-04-BR
PEORIA COUNTY
STATION 14+61.34
STRUCTURE NUMBER 072-3160



ELEVATION
(Looking North)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

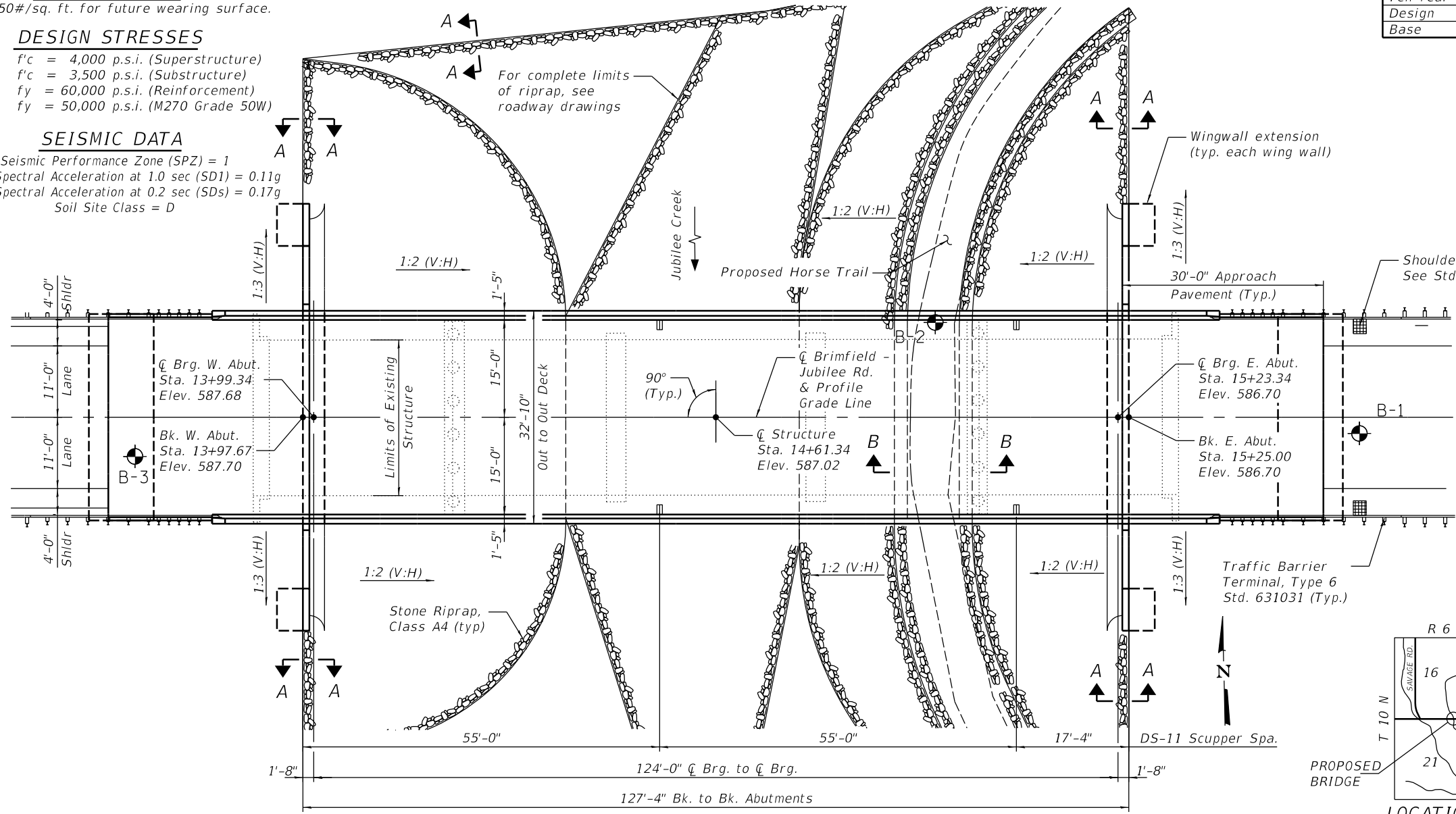
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

- $f'_c = 4,000$ p.s.i. (Superstructure)
- $f'_c = 3,500$ p.s.i. (Substructure)
- $f_y = 60,000$ p.s.i. (Reinforcement)
- $f_y = 50,000$ p.s.i. (M270 Grade 50W)

SEISMIC DATA

- Seismic Performance Zone (SPZ) = 1
- Design Spectral Acceleration at 1.0 sec (SD1) = 0.11g
- Design Spectral Acceleration at 0.2 sec (SDs) = 0.17g
- Soil Site Class = D



PLAN

DESIGNED: SMK 2/5/2018
DRAWN: MGM 2/7/2018
REVIEWED: SMK/FLN 7/20/2020

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USER NAME = onder-00846
PLOT SCALE = 0.20" = 1'-0"
PLOT DATE = 7/28/2020

DESIGNED - SMK
CHECKED - BWC/FLN
DRAWN - MGM
CHECKED - SMK/FLN

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 072-3160
SHEET NO. 1 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89745	

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 7/8 in. Ø, holes 15/16 in. Ø, unless otherwise noted.

Calculated weight of Structural Steel, AASHTO M270 Grade 50W = 141,880 lbs.

All structural steel shall be AASHTO M 270 Grade 50W, unless otherwise noted.

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

Reinforcement bars designated (E) shall be epoxy coated.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

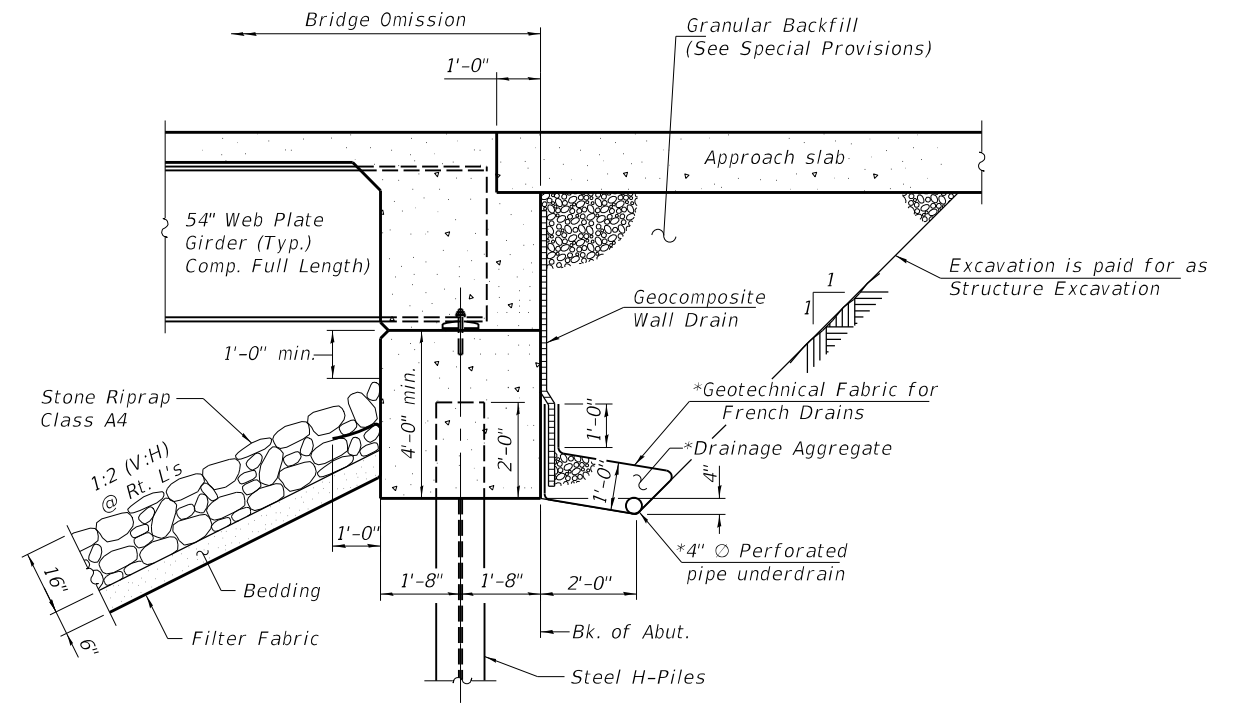
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

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

Slipforming of the parapets is not allowed.

INDEX OF SHEETS

1. General Plan
2. General Data
3. Top of Deck Elevations (Sheet 1 of 2)
4. Top of Deck Elevations (Sheet 2 of 2)
5. Top of West Approach Slab Elevations
6. Top of East Approach Slab Elevations
7. Superstructure Plan and Deck Cross Section
8. Superstructure Details
9. Drainage Scuppers, DS-11
10. Integral Abutment and Diaphragm Details
11. Bridge Approach Slab Details (Sheet 1 of 2)
12. Bridge Approach Slab Details (Sheet 2 of 2)
13. Structural Steel Framing Plan
14. Structural Steel Details & Fixed Bearing Details
15. West Abutment
16. East Abutment
17. 'L' Type Retaining Wall Wing Extension
18. HP Pile Details
19. Boring Logs



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

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

Note:
All drainage system components shall extend to 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).

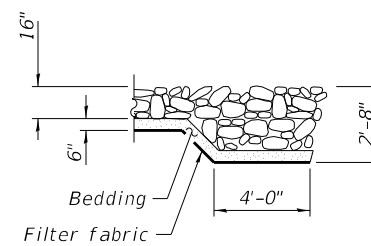
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	1572	1572
Filter Fabric	Sq. Yd.	-	1572	1572
Removal of Existing Structures	Each	1	-	1
Structure Excavation	Cu. Yd.	-	197	197
Concrete Structures	Cu. Yd.	19.2	57.0	76.2
Concrete Superstructure	Cu. Yd.	185.2	-	185.2
Bridge Deck Grooving	Sq. Yd.	577	-	577
Protective Coat	Sq. Yd.	764	-	764
Concrete Superstructure (Approach Slab)	Cu. Yd.	89.2	-	89.2
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	1035	-	1035
Reinforcement Bars, Epoxy Coated	Pound	74,500	11,790	86,290
Furnishing Steel Piles, HP14x89	Foot	-	340	340
Driving Piles	Foot	-	340	340
Test Pile Steel, HP14x89	Each	-	2	2
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	20	-	20
Geocomposite Wall Drain	Sq. Yd.	-	88	88
Granular Backfill for Structures	Cu. Ft.	-	192	192
Drainage Scuppers, DS-11	Each	4	-	4
Pipe Underdrains for Structures 4"	Foot	-	192	192

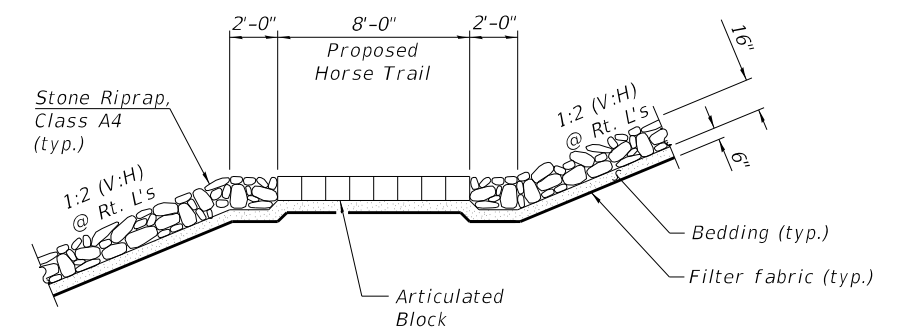
JUBILEE CREEK TRIBUTARY
BUILT 20 BY
PEORIA COUNTY
SEC. 14-00113-04-BR
F.A.S. 1386 STA. 14+61.34
STR. NO. 072-3160 LOADING HL-93

LETTERING FOR NAME PLATE

Locate Name Plate at Southwest Corner of Bridge (See Std. 515001)



SECTION A-A



SECTION B-B

DESIGNED: SMK 2/5/2018
DRAWN: MGM 2/7/2018
REVIEWED: SMK/FLN 12/0/2020

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PLOT DATE = 9/15/2020

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CHECKED - BWC/FLN
DRAWN - MGM
CHECKED - SMK/FLN

REVISED -
REVISED -
REVISED -
REVISED -

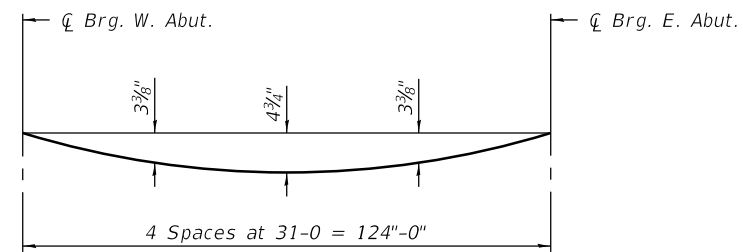
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 072-3160**

SHEET NO. 2 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	22
CONTRACT NO.89745				

ILLINOIS FED. AID PROJECT

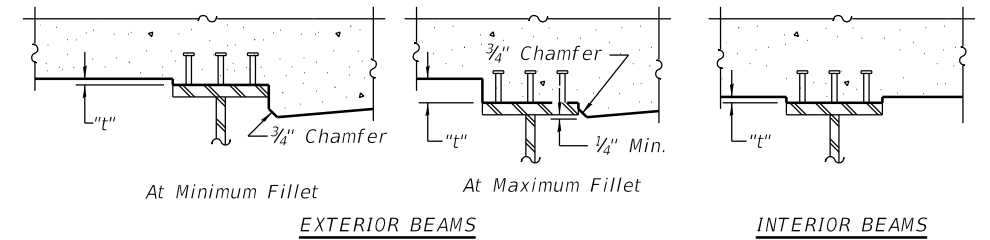


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

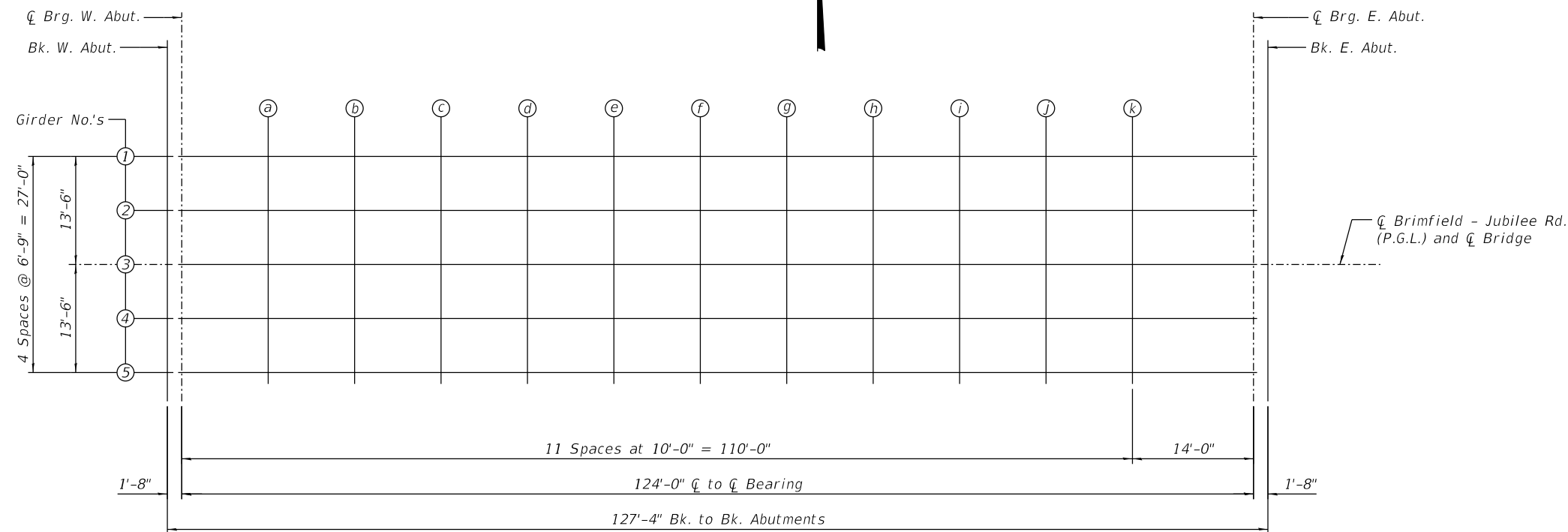
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 4 of 18.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 4 of 18, minus 8" slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DIAGRAMMATIC PLAN

DESIGNED	SMK	2/5/2018
DRAWN	MGM	2/7/2018
REVIEWED	SMK/FLN	7/20/2020

I:\16jobs\16L0568\CAD\Struct\Sheet\003 Top of Deck Elev Sheet 1 of 2.dgn



USER NAME = onder00846	DESIGNED - SMK	REVISED -
PLOT SCALE = 0:2.0000 '1' = in.	CHECKED - BWC/FLN	REVISED -
PLOT DATE = 7/28/2020	DRAWN - MGM	REVISED -
	CHECKED - SMK/FLN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEV (SHEET 1 OF 2)
STRUCTURE NO. 072-3160**

SHEET NO. 3 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	23
ILLINOIS FED. AID PROJECT			CONTRACT NO.89745	

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GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	13+97.67	-13.50	587.43	587.43
☉ Brg. W. Abut.	13+99.34	-13.50	587.41	587.41
a	14+09.34	-13.50	587.27	587.37
b	14+19.34	-13.50	587.14	587.34
c	14+29.34	-13.50	587.03	587.31
d	14+39.34	-13.50	586.93	587.27
e	14+49.34	-13.50	586.84	587.22
f	14+59.34	-13.50	586.77	587.16
g	14+69.34	-13.50	586.70	587.09
h	14+79.34	-13.50	586.65	587.01
i	14+89.34	-13.50	586.60	586.91
j	14+99.34	-13.50	586.55	586.78
k	15+09.34	-13.50	586.50	586.64
☉ Brg. E. Abut.	15+23.34	-13.50	586.43	586.43
Bk. E. Abut.	15+25.01	-13.50	586.43	586.43

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	13+97.67	-6.75	587.57	587.57
☉ Brg. W. Abut.	13+99.34	-6.75	587.54	587.54
a	14+09.34	-6.75	587.40	587.51
b	14+19.34	-6.75	587.28	587.47
c	14+29.34	-6.75	587.17	587.44
d	14+39.34	-6.75	587.07	587.40
e	14+49.34	-6.75	586.98	587.36
f	14+59.34	-6.75	586.90	587.30
g	14+69.34	-6.75	586.84	587.23
h	14+79.34	-6.75	586.79	587.15
i	14+89.34	-6.75	586.74	587.04
j	14+99.34	-6.75	586.69	586.92
k	15+09.34	-6.75	586.64	586.78
☉ Brg. E. Abut.	15+23.34	-6.75	586.57	586.57
Bk. E. Abut.	15+25.01	-6.75	586.56	586.56

**GIRDER 3
☉ JUBILEE ROAD & P.G.L.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	13+97.67	0.00	587.70	587.70
☉ Brg. W. Abut.	13+99.34	0.00	587.68	587.68
a	14+09.34	0.00	587.54	587.64
b	14+19.34	0.00	587.41	587.61
c	14+29.34	0.00	587.30	587.58
d	14+39.34	0.00	587.20	587.54
e	14+49.34	0.00	587.11	587.49
f	14+59.34	0.00	587.04	587.43
g	14+69.34	0.00	586.97	587.36
h	14+79.34	0.00	586.92	587.28
i	14+89.34	0.00	586.87	587.18
j	14+99.34	0.00	586.82	587.05
k	15+09.34	0.00	586.77	586.91
☉ Brg. E. Abut.	15+23.34	0.00	586.70	586.70
Bk. E. Abut.	15+25.01	0.00	586.70	586.70

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	13+97.67	6.75	587.57	587.57
☉ Brg. W. Abut.	13+99.34	6.75	587.54	587.54
a	14+09.34	6.75	587.40	587.51
b	14+19.34	6.75	587.28	587.47
c	14+29.34	6.75	587.17	587.44
d	14+39.34	6.75	587.07	587.40
e	14+49.34	6.75	586.98	587.36
f	14+59.34	6.75	586.90	587.30
g	14+69.34	6.75	586.84	587.23
h	14+79.34	6.75	586.79	587.15
i	14+89.34	6.75	586.74	587.04
j	14+99.34	6.75	586.69	586.92
k	15+09.34	6.75	586.64	586.78
☉ Brg. E. Abut.	15+23.34	6.75	586.57	586.57
Bk. E. Abut.	15+25.01	6.75	586.56	586.56

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	13+97.67	13.50	587.43	587.43
☉ Brg. W. Abut.	13+99.34	13.50	587.41	587.41
a	14+09.34	13.50	587.27	587.37
b	14+19.34	13.50	587.14	587.34
c	14+29.34	13.50	587.03	587.31
d	14+39.34	13.50	586.93	587.27
e	14+49.34	13.50	586.84	587.22
f	14+59.34	13.50	586.77	587.16
g	14+69.34	13.50	586.70	587.09
h	14+79.34	13.50	586.65	587.01
i	14+89.34	13.50	586.60	586.91
j	14+99.34	13.50	586.55	586.78
k	15+09.34	13.50	586.50	586.64
☉ Brg. E. Abut.	15+23.34	13.50	586.43	586.43
Bk. E. Abut.	15+25.01	13.50	586.43	586.43

NOTES:

- Offsets are to ☉ Jubilee Road.
- Negative (-) offsets are offset to the left of the ☉ while looking upstation.

DESIGNED: SMK 2/5/2018
 DRAWN: MGM 2/7/2018
 REVIEWED: SMK/FLN 7/20/2020

I:\16\jobs\16L0568\CAD\Struct\Sheet\004 Top of Deck Elev Sheet 2 of 2.dgn



USER NAME = onder00846
 PLOT SCALE = 0:2.0000 '1' = 1"
 PLOT DATE = 7/28/2020

DESIGNED - SMK
 CHECKED - BWC/FLN
 DRAWN - MGM
 CHECKED - SMK/FLN

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEV (SHEET 2 OF 2)
 STRUCTURE NO. 072-3160**

SHEET NO. 4 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	24
			CONTRACT NO.89745	
ILLINOIS FED. AID PROJECT				

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NORTH EDGE OF SHOULDER

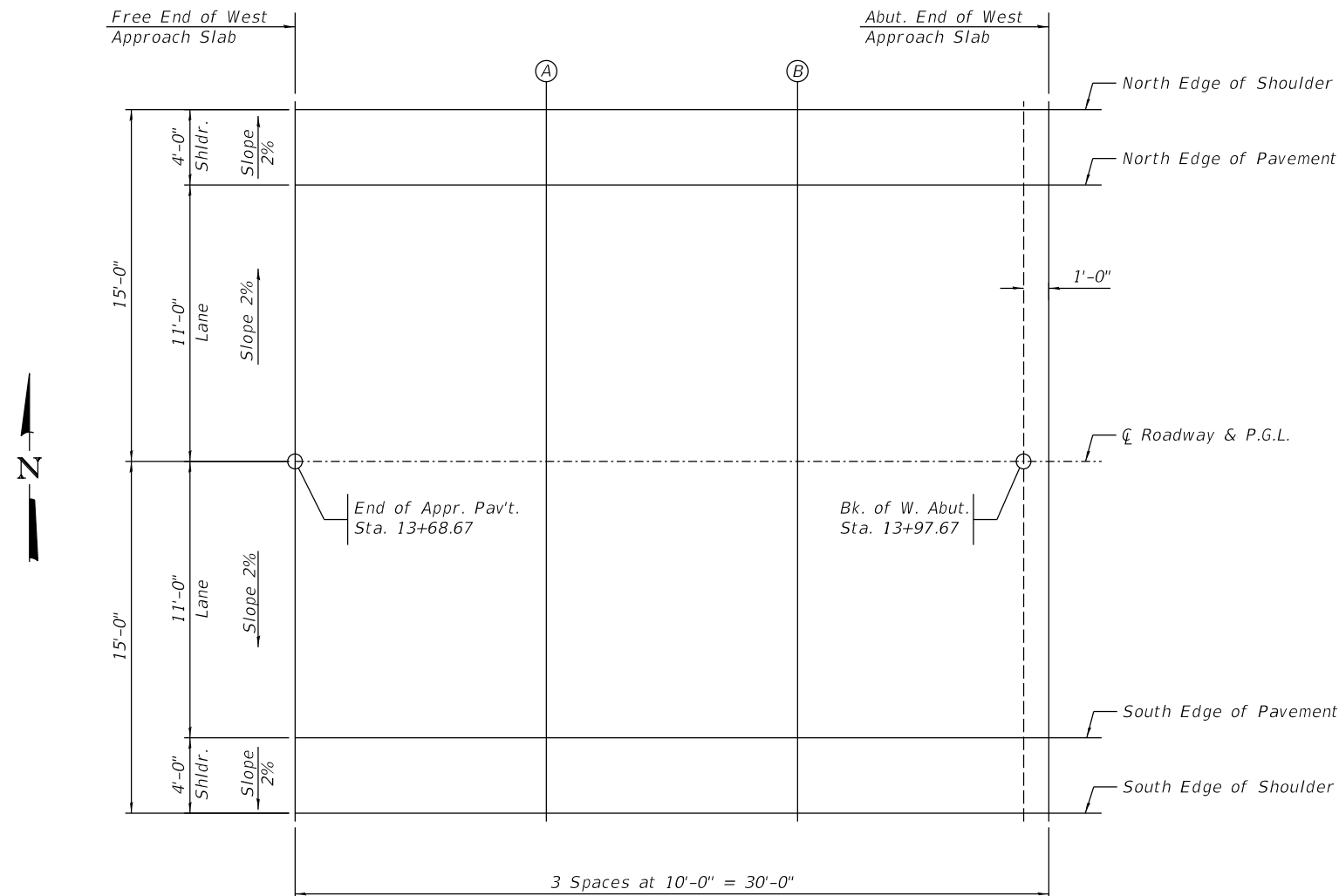
Location	Station	Offset	Theoretical Grade Elevations
Free End of W. Appr.	13+68.67	-15.00	587.87
A	13+78.67	-15.00	587.70
B	13+88.67	-15.00	587.54
Abut. End of W. Appr.	13+98.67	-15.00	587.39

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Free End of W. Appr.	13+68.67	-11.00	587.95
A	13+78.67	-11.00	587.78
B	13+88.67	-11.00	587.62
Abut. End of W. Appr.	13+98.67	-11.00	587.47

CL ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
Free End of W. Appr.	13+68.67	0.00	588.17
A	13+78.67	0.00	588.00
B	13+88.67	0.00	587.84
Abut. End of W. Appr.	13+98.67	0.00	587.69



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Free End of W. Appr.	13+68.67	11.00	587.95
A	13+78.67	11.00	587.78
B	13+88.67	11.00	587.62
Abut. End of W. Appr.	13+98.67	11.00	587.47

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Free End of W. Appr.	13+68.67	15.00	587.87
A	13+78.67	15.00	587.70
B	13+88.67	15.00	587.54
Abut. End of W. Appr.	13+98.67	15.00	587.39

NOTES:

- Offsets are to CL Jubilee Road.
- Negative (-) offsets are offset to the left of the CL while looking upstation.

DESIGNED: SMK 2/5/2018
 DRAWN: MGM 2/11/2018
 REVIEWED: SMK/FLN 7/20/2020

I:\16_jobs\16L0568\CAD\Struct\Sheet\005 Top of West Appr. Slab Elev.dgn



USER NAME = onder00846
 PLOT SCALE = 0:2.0000' = 1" = 1'-0"
 PLOT DATE = 7/28/2020

DESIGNED - SMK
 CHECKED - BWC/FLN
 DRAWN - MGM
 CHECKED - SMK/FLN

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 072-3160

SHEET NO. 5 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	25
ILLINOIS FED. AID PROJECT			CONTRACT NO.89745	

NORTH EDGE OF SHOULDER

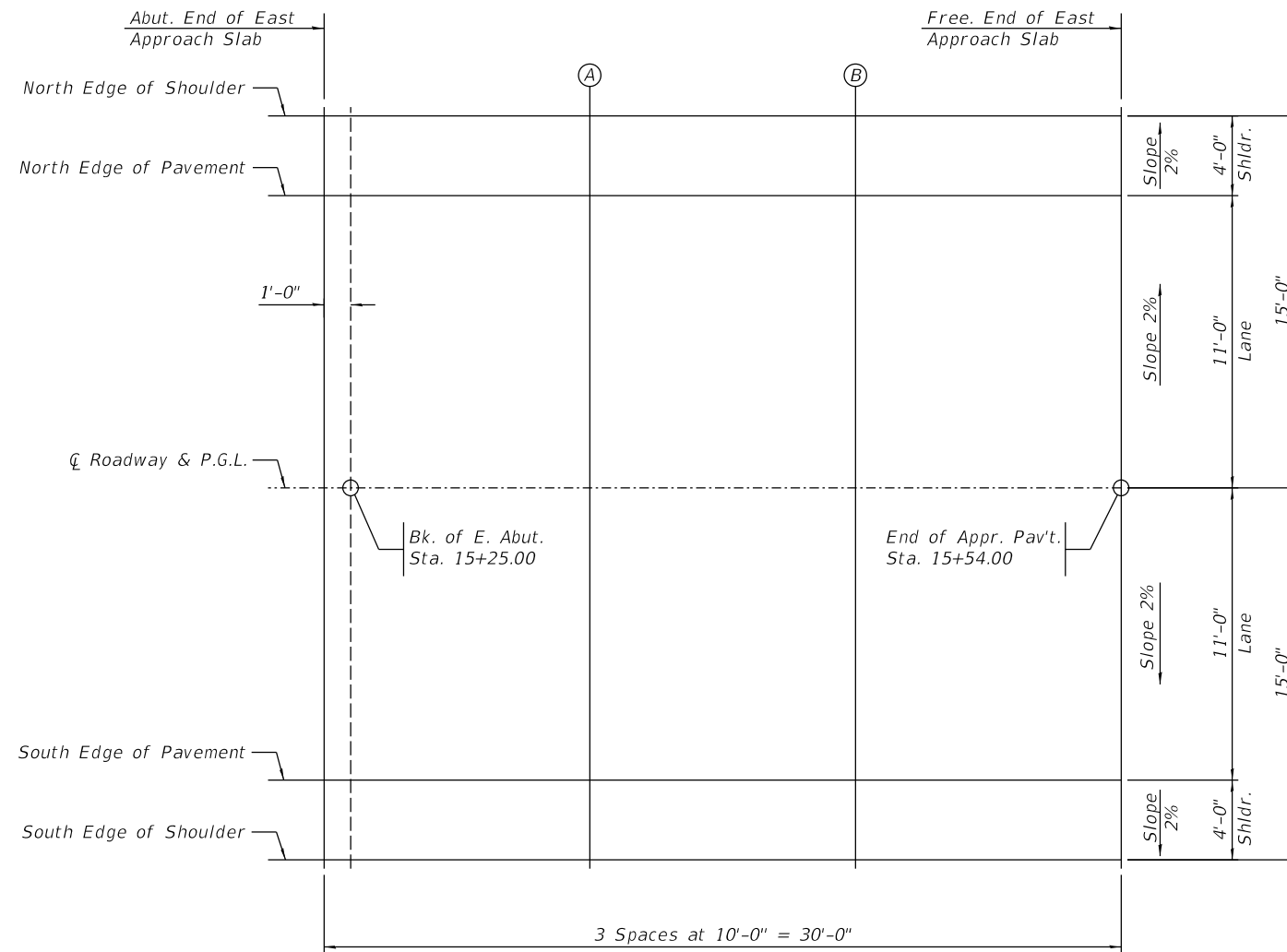
Location	Station	Offset	Theoretical Grade Elevations
Abut. End of E. Appr.	15+24.00	-15.00	586.40
A	15+34.00	-15.00	586.36
B	15+44.00	-15.00	586.33
Free End of E. Appr.	15+54.00	-15.00	586.32

NORTH EDGE OF PAVEMENT

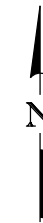
Location	Station	Offset	Theoretical Grade Elevations
Abut. End of E. Appr.	15+24.00	-11.00	586.48
A	15+34.00	-11.00	586.44
B	15+44.00	-11.00	586.41
Free End of E. Appr.	15+54.00	-11.00	586.40

CL ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of E. Appr.	15+24.00	0.00	586.70
A	15+34.00	0.00	586.66
B	15+44.00	0.00	586.63
Free End of E. Appr.	15+54.00	0.00	586.62



PLAN



SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of E. Appr.	15+24.00	11.00	586.48
A	15+34.00	11.00	586.44
B	15+44.00	11.00	586.41
Free End of E. Appr.	15+54.00	11.00	586.40

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of E. Appr.	15+24.00	15.00	586.40
A	15+34.00	15.00	586.36
B	15+44.00	15.00	586.33
Free End of E. Appr.	15+54.00	15.00	586.32

DESIGNED: SMK 2/5/2018
 DRAWN: MGM 2/11/2018
 REVIEWED: SMK/FLN 7/20/2020

I:\16jobs\16L0568\CAD\Struct\Sheet\006 Top of East Appr. Slab Elev.dgn



USER NAME = onder00846
 PLOT SCALE = 0:2.0000 '1" = 1"
 PLOT DATE = 7/28/2020

DESIGNED - SMK
 CHECKED - BWC/FLN
 DRAWN - MGM
 CHECKED - SMK/FLN

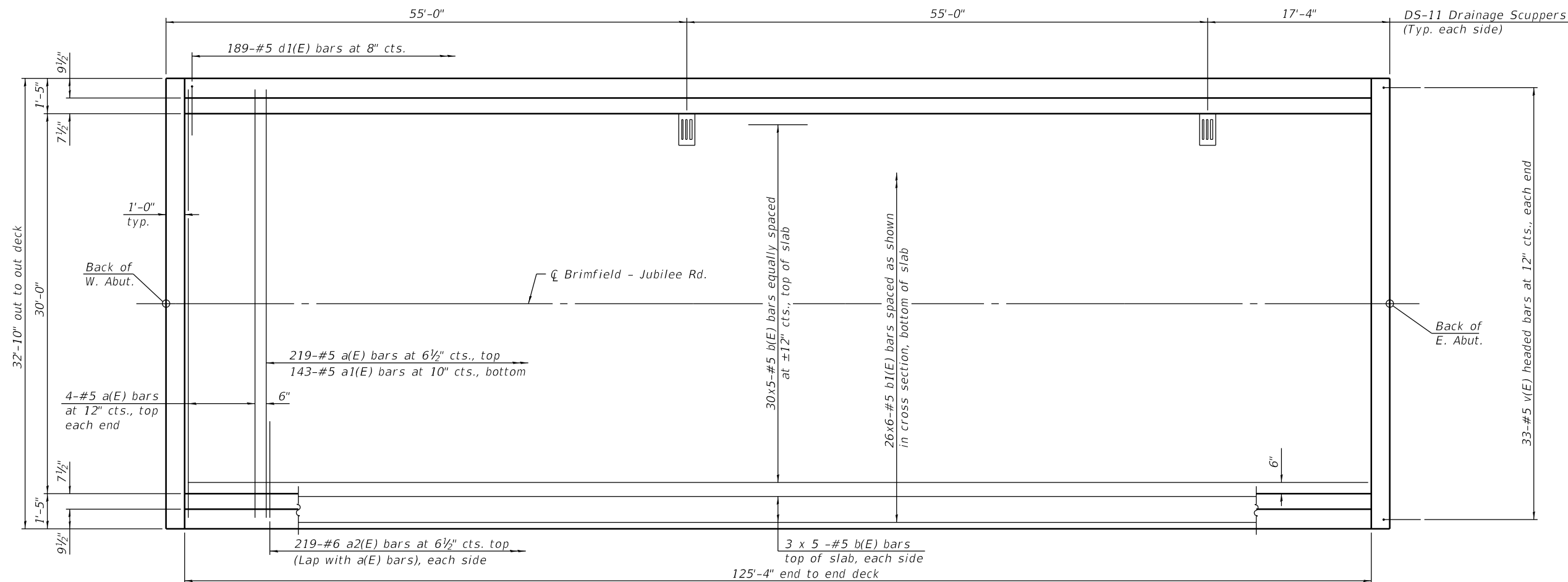
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 072-3160**

SHEET NO. 6 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	26
			CONTRACT NO.89745	
ILLINOIS FED. AID PROJECT				

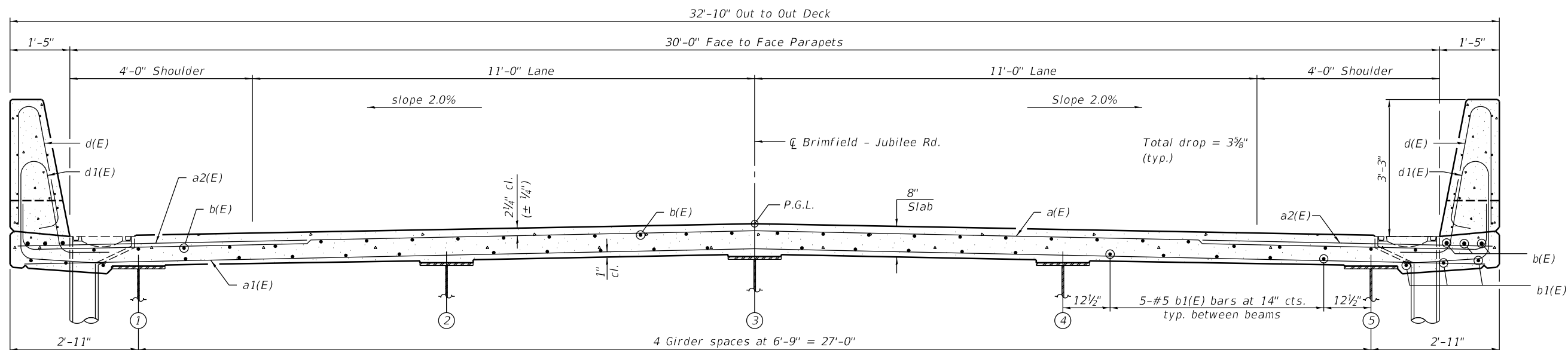


MINIMUM BAR LAP
#5 BARS = 3'-6"

PLAN



Notes:
See Sheet 8 of 18 for superstructure details and Bill of Material.
Bars indicated thus 30 x 6-#5 etc. indicates 30 lines of bars with 6 lengths per line.
See Sheet 8 of 18 for parapet reinforcement.
See Sheet 8 of 18 for additional reinforcement around Drainage Scupper.



CROSS SECTION
(Looking East)

DESIGNED	SMK	2/5/2018
DRAWN	MGM	2/11/2018
REVIEWED	SMK/FLN	2/20/2020

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USER NAME	= anderson00846
PLOT SCALE	= 0:2.0000' = 1" / in.
PLOT DATE	= 7/28/2020

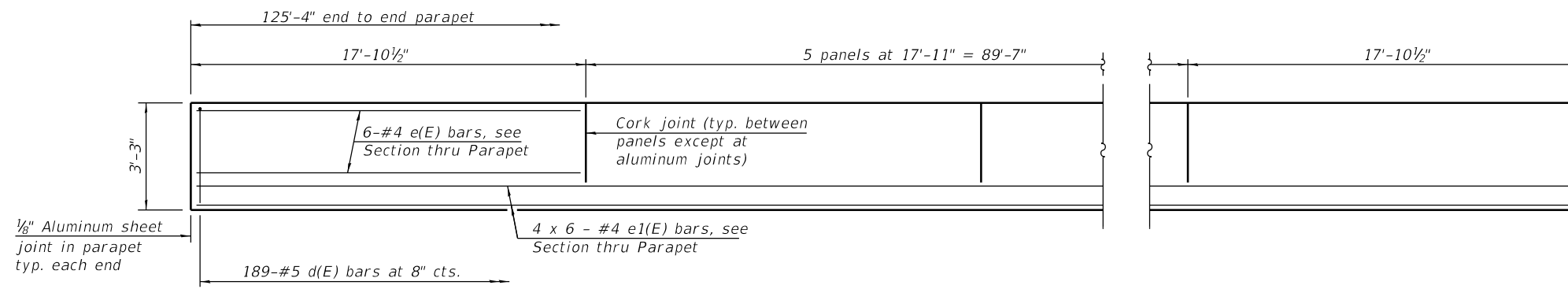
DESIGNED	- SMK	REVISED	-
CHECKED	- BWC/FLN	REVISED	-
DRAWN	- MGM	REVISED	-
CHECKED	- SMK/FLN	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

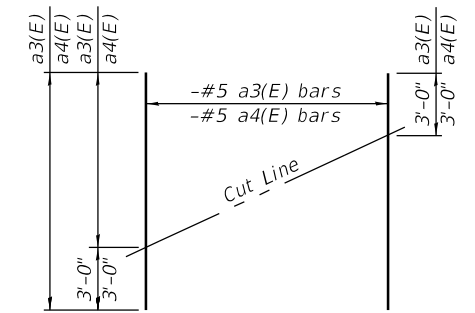
SUPERSTRUCTURE PLAN AND DECK CROSS SECTION
STRUCTURE NO. 072-3160

SHEET NO. 7 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89745	

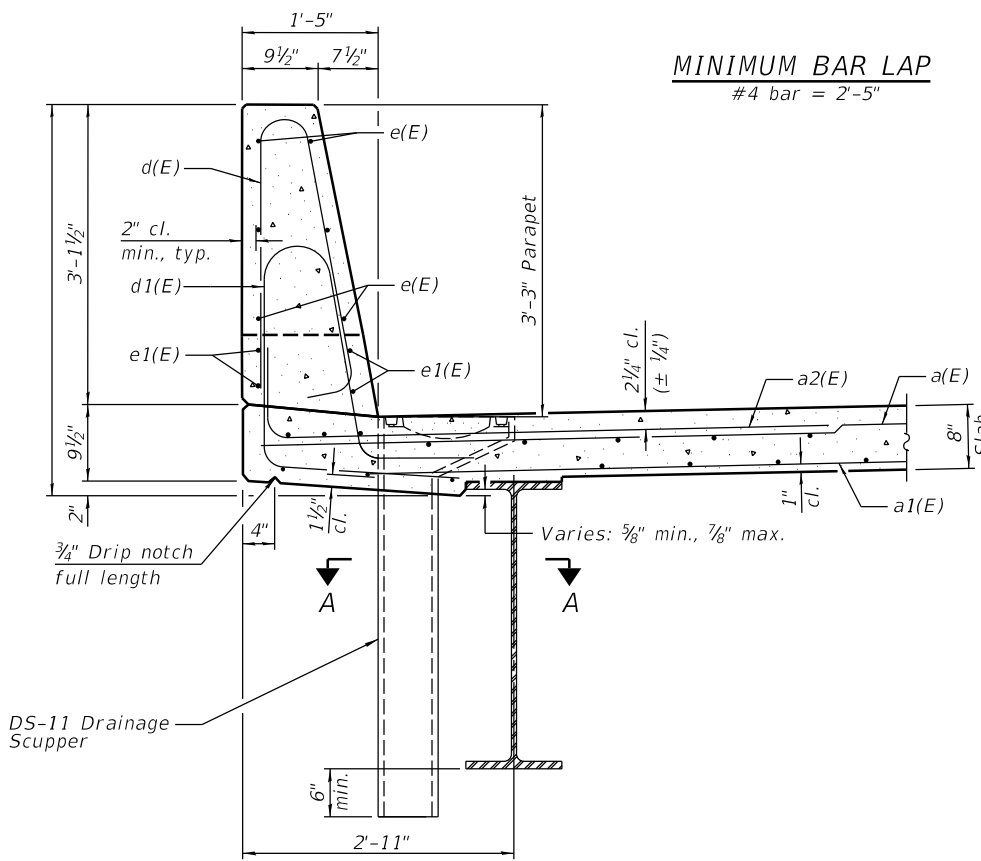


INSIDE ELEVATION OF PARAPET

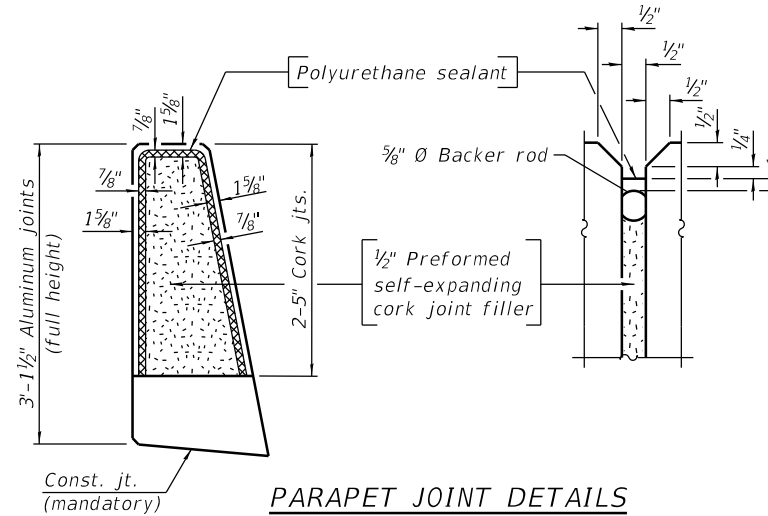


FIELD CUTTING DIAGRAM

Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.



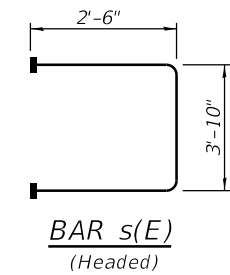
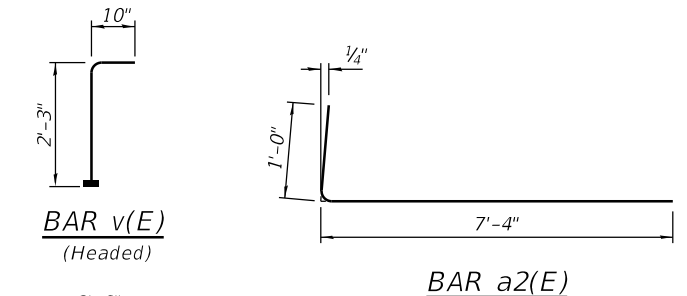
SECTION THRU PARAPET



PARAPET JOINT DETAILS

Notes:

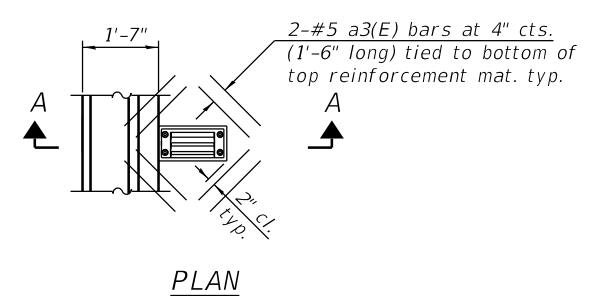
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



SUPERSTRUCTURE BILL OF MATERIAL

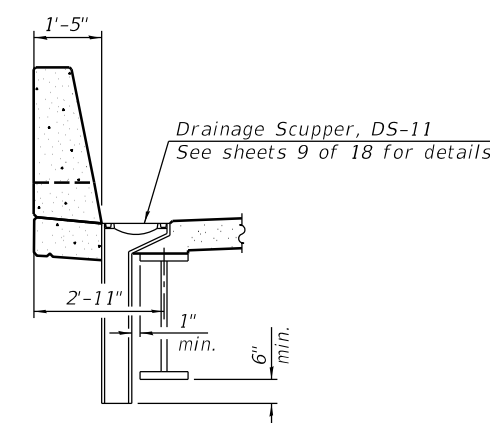
Bar	No.	Size	Length	Shape
a(E)	227	#5	32'-6"	—
a1(E)	143	#5	32'-2"	—
a2(E)	438	#6	8'-4"	L
a3(E)	32	#5	1'-6"	—
b(E)	180	#5	27'-11"	—
b1(E)	156	#5	23'-10"	—
d(E)	378	#5	6'-5"	L
d1(E)	378	#5	8'-1"	L
e(E)	84	#4	17'-7"	—
e1(E)	48	#4	23'-0"	—
m(E)	12	#6	32'-6"	—
m1(E)	40	#6	6'-5"	—
m2(E)	20	#6	2'-7"	—
m3(E)	50	#5	4'-0"	—
s(E)	60	#5	8'-10"	U
s1(E)	60	#5	13'-4"	U
v(E)	66	#5	3'-1"	L
Reinforcement Bars, Epoxy Coated		Lbs.	37,440	
Concrete Superstructure		Cu. Yds.	177.4	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



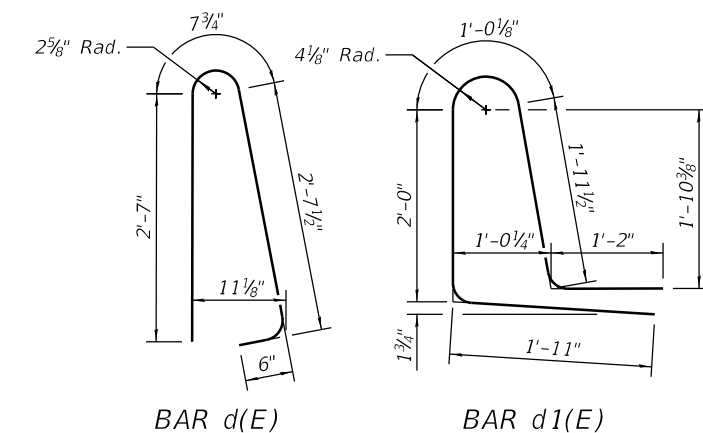
PLAN

Note: Cut longitudinal reinforcement to clear drainage scuppers.



SECTION A-A

DRAINAGE SCUPPER REINFORCEMENT



BAR d(E)

BAR d1(E)

DESIGNED: SMK 2/5/2018
DRAWN: MGM 2/17/2018
REVIEWED: SMK/FLN 7/20/2020

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USER NAME = onder00846
PLOT SCALE = 0:2.0000' = 1/8" = 1/8"
PLOT DATE = 7/28/2020

DESIGNED - SMK
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DRAWN - MGM
CHECKED - SMK/FLN

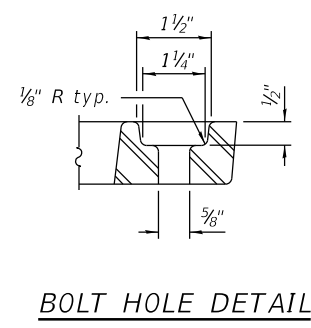
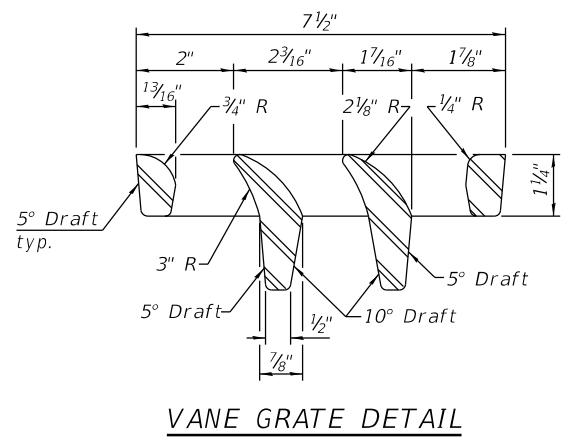
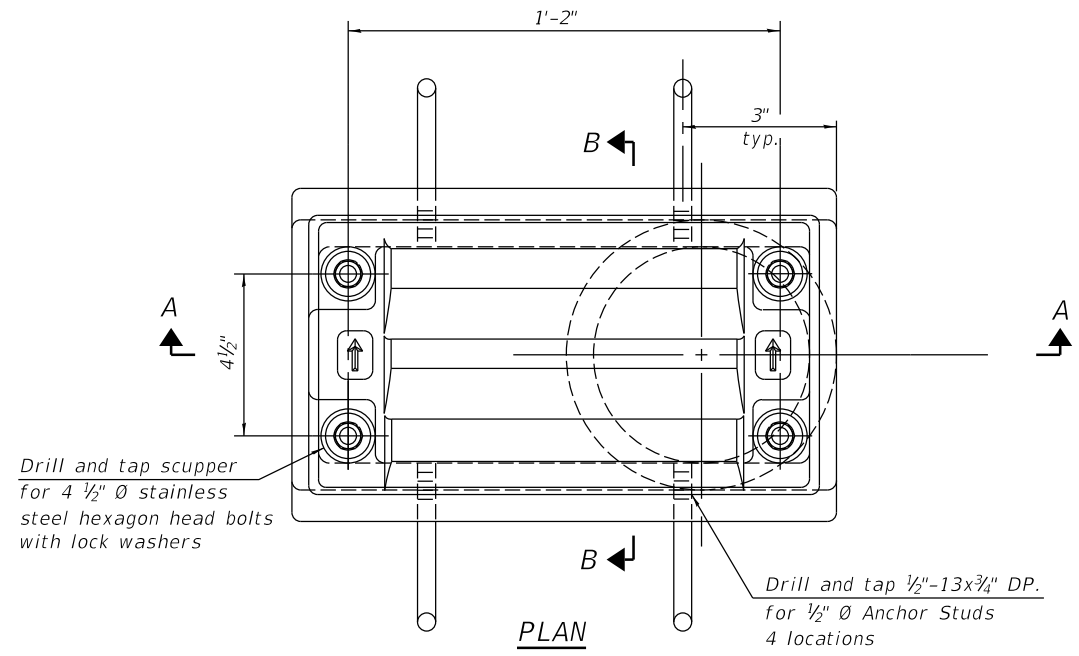
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 072-3160**

SHEET NO. 8 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	28
ILLINOIS FED. AID PROJECT			CONTRACT NO.89745	



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

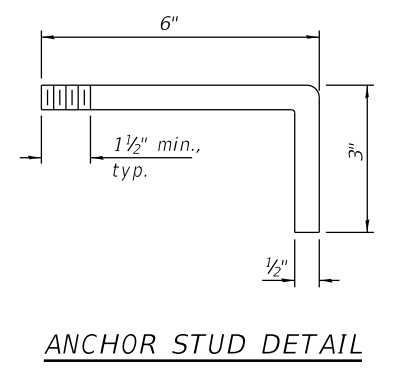
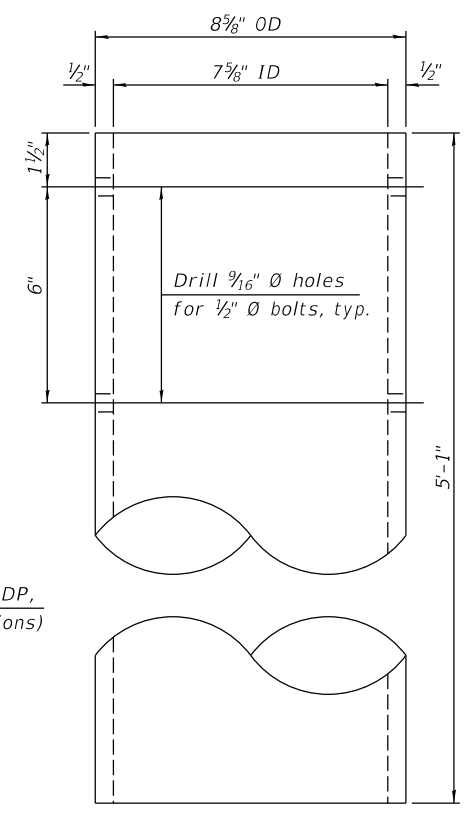
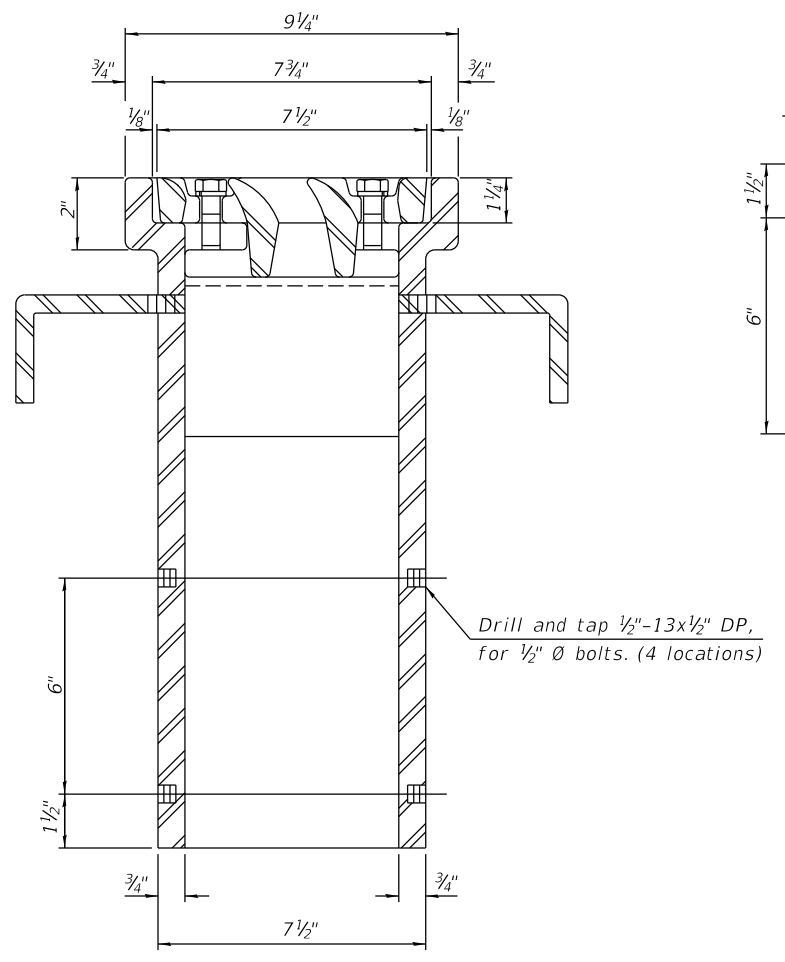
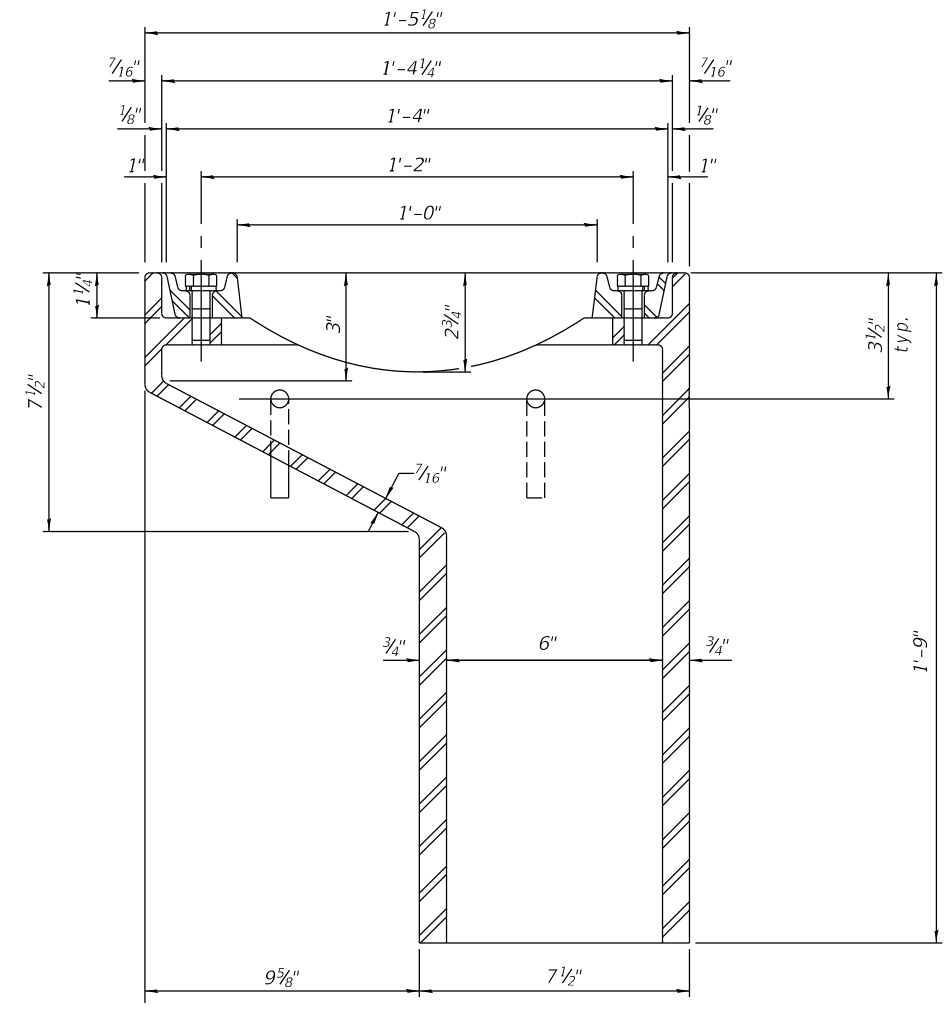
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



See sheet 8 of 18 for scupper location relative to parapet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

DESIGNED: SMK 2/5/2018
 DRAWN: MGM 2/11/2018
 REVIEWED: SMK/FLN 7/20/2020



DS-11 2-17-2017
 USER NAME: onder00846
 PLOT SCALE: 0:2.0000 '1' = in.
 PLOT DATE: 7/28/2020

DESIGNED - SMK
 CHECKED - BWC/FLN
 DRAWN - MGM
 CHECKED - SMK/FLN

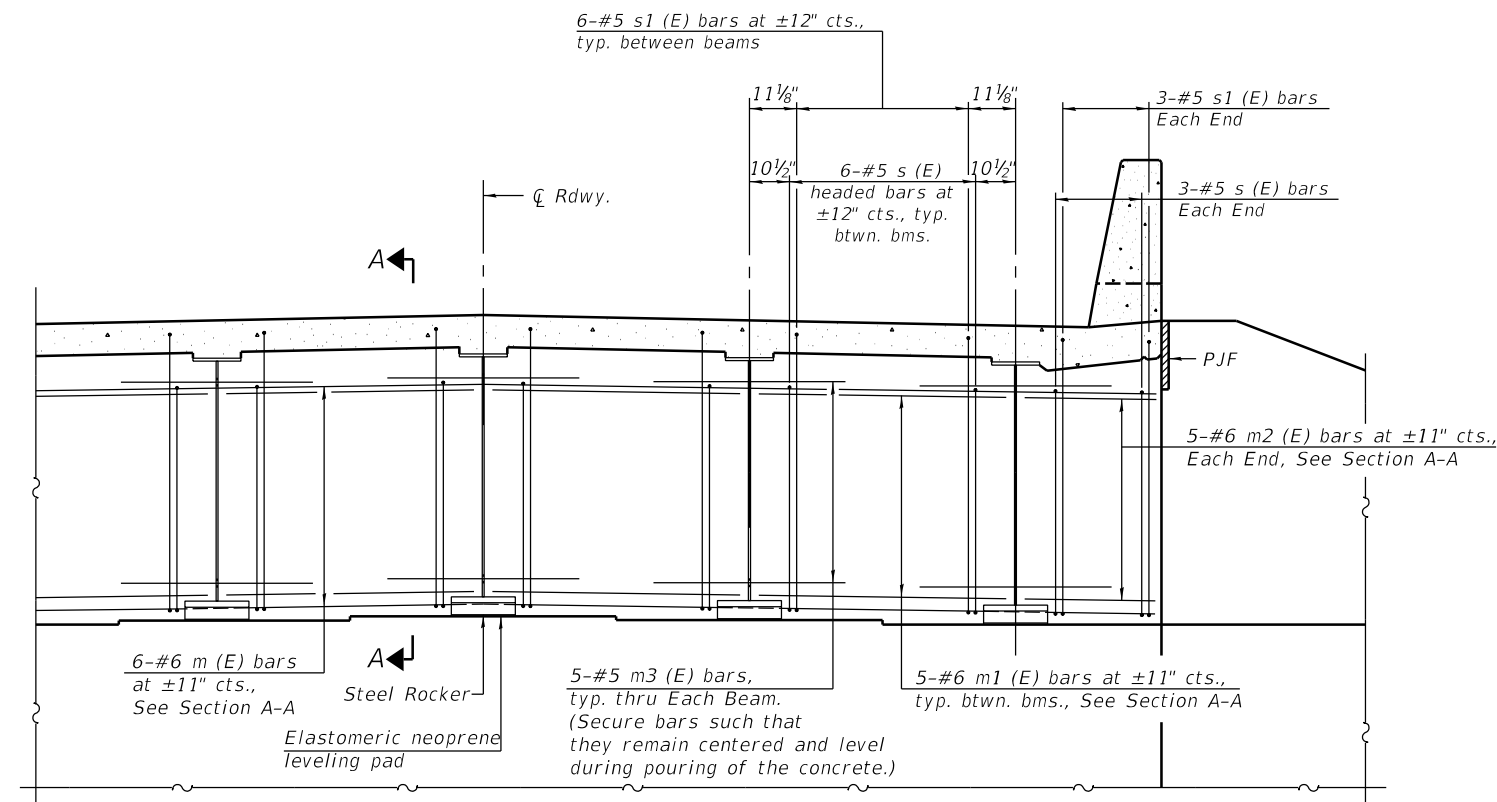
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

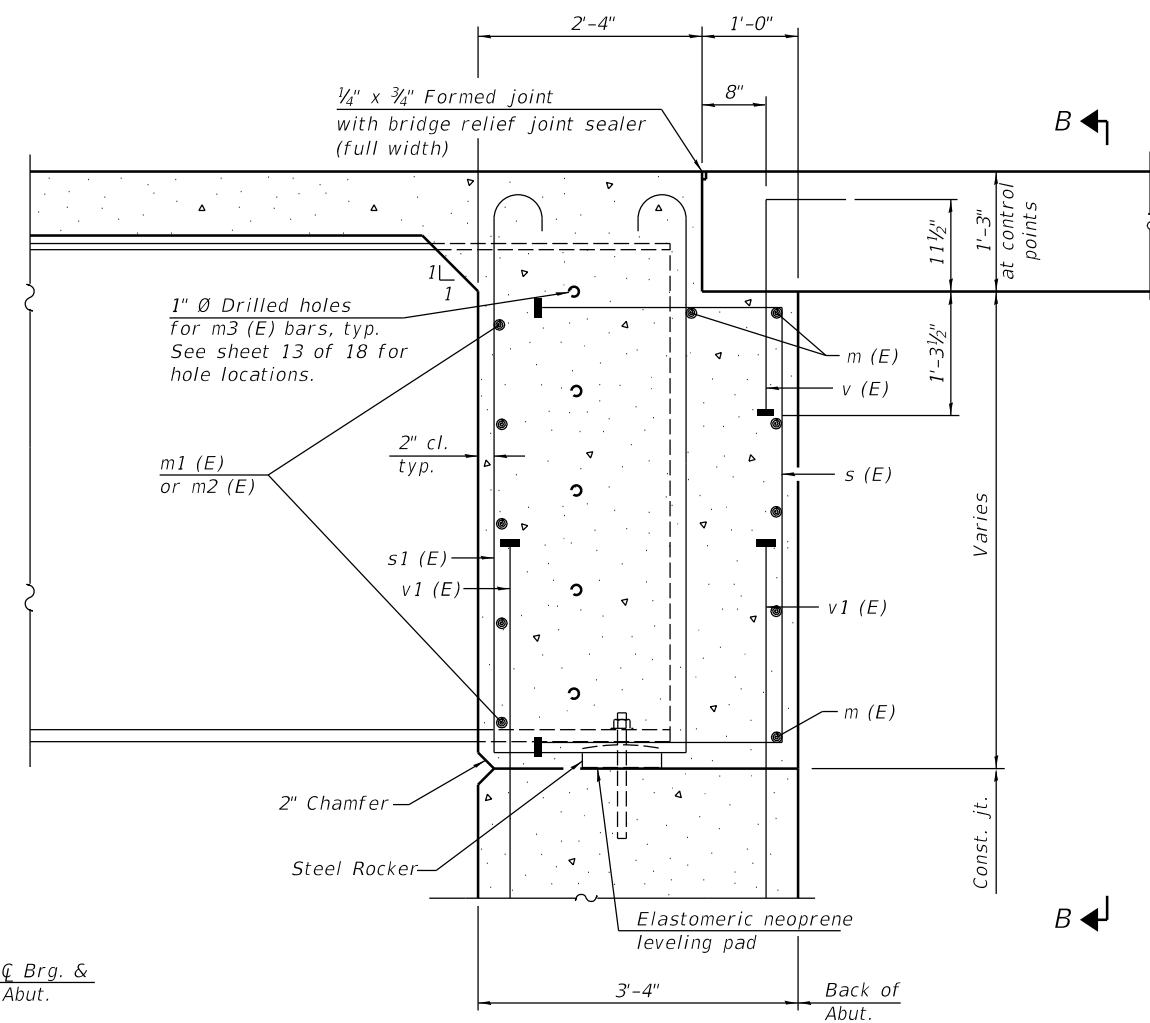
DRAINAGE SCUPPER, DS11
 STRUCTURE NO. 072-3160

SHEET NO. 9 OF 19 SHEETS

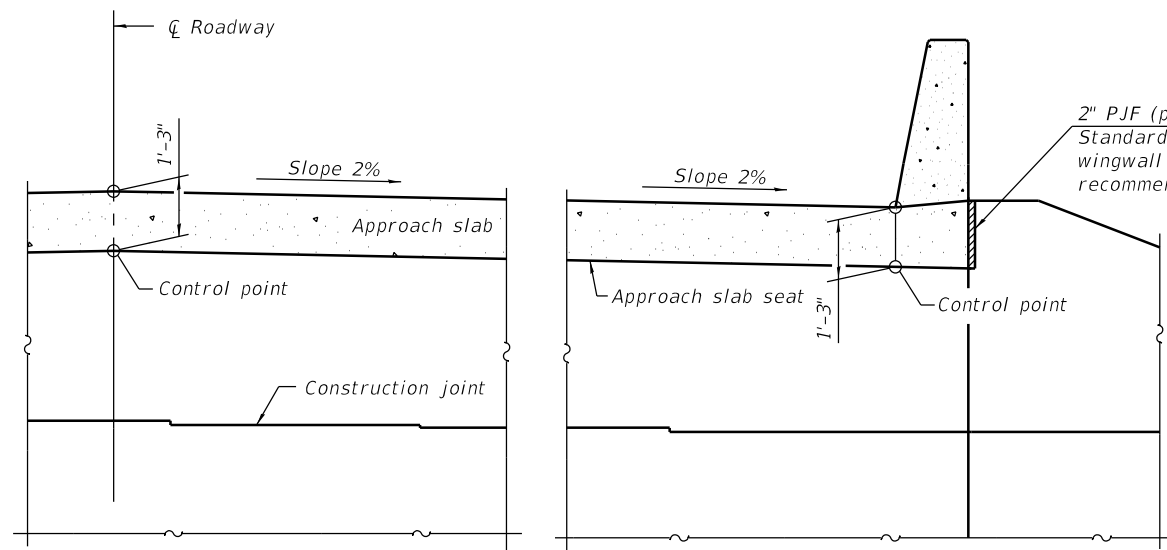
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	29
ILLINOIS FED. AID PROJECT			CONTRACT NO.89745	



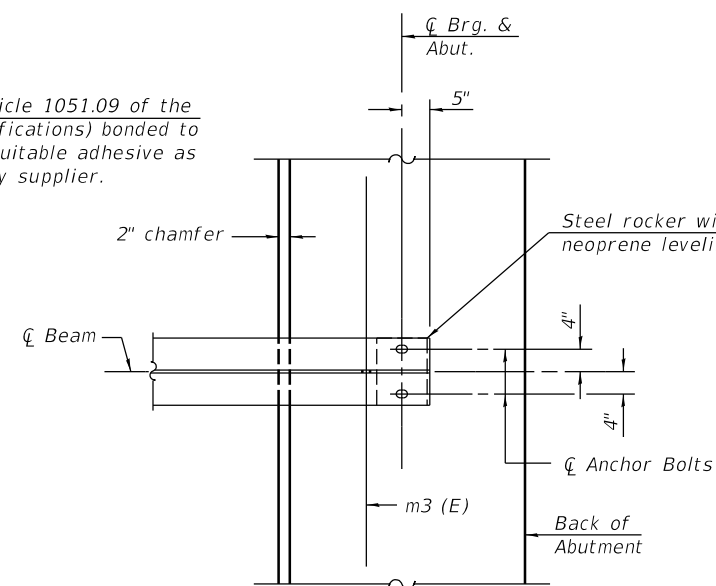
DIAPHRAGM AT ABUTMENT



SECTION A-A



SECTION B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 18.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 18.
 For details of bars s (E), s1 (E) and v (E) see sheet 8 of 18.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 14 of 18.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

DESIGNED - SMK 2/5/2018
 DRAWN - MGM 2/17/2018
 REVIEWED - SMK/FLN 7/20/2020

DIA-SB>48-0 2-17-2017
 I:\16_jobs\1610555 CAD Struct Sheet\010 Integral Abut and Diaphragm Details.dgn

USER NAME = onder00846	DESIGNED - SMK	REVISD -
PLOT SCALE = 0:2.0000 '1' = 1/8"	CHECKED - BWC/FLN	REVISD -
PLOT DATE = 7/28/2020	DRAWN - MGM	REVISD -
	CHECKED - SMK/FLN	REVISD -

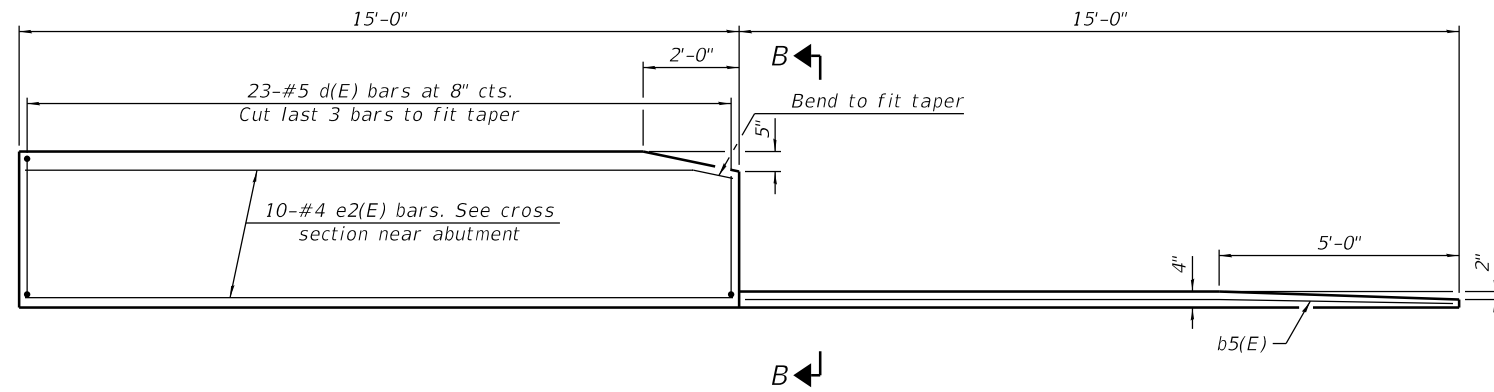
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTEGRAL ABUT AND DIAPHRAGM DETAILS
 STRUCTURE NO. 072-3160

SHEET NO. 10 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	30
CONTRACT NO.89745				

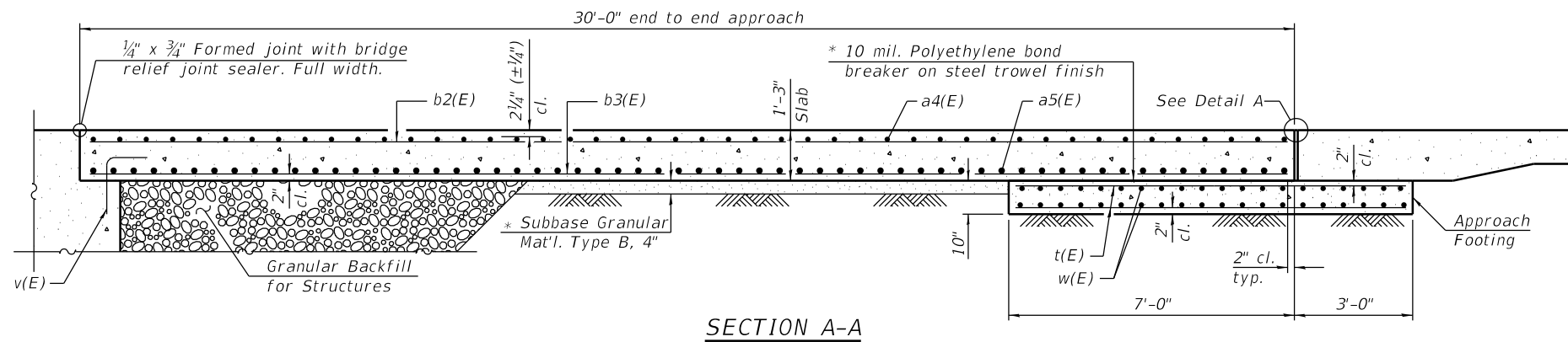
ILLINOIS FED. AID PROJECT



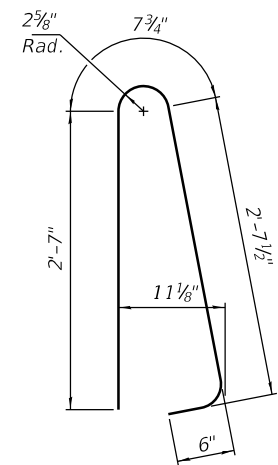
INSIDE ELEVATION OF PARAPET AND CURB

Notes:

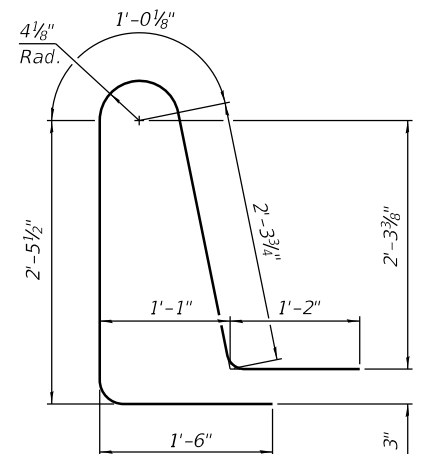
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 18.
 For v(E) bar details, see sheet 8 of 18.



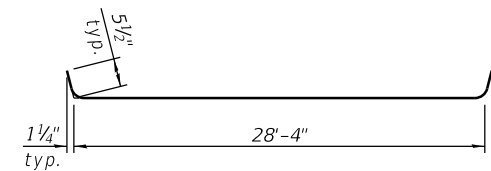
SECTION A-A



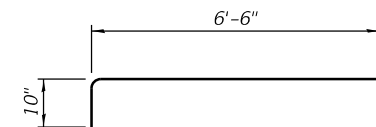
BAR d(E)



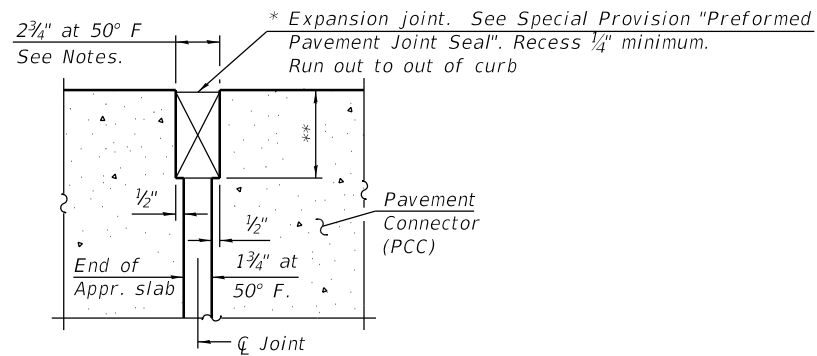
BAR d2(E)



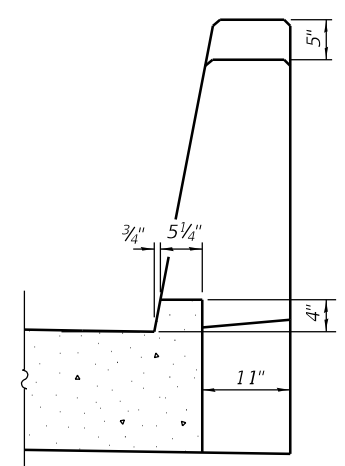
BAR a4(E)



BAR a6(E)



DETAIL A



VIEW B-B

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4(E)	92	#5	31'-3"	—
a5(E)	120	#8	30'-8"	—
a6(E)	92	#5	7'-4"	—
b2(E)	94	#5	29'-8"	—
b3(E)	150	#9	29'-8"	—
b4(E)	16	#5	14'-8"	—
b5(E)	4	#4	14'-8"	—
d(E)	92	#5	6'-5"	U
d2(E)	92	#5	8'-6"	U
e2(E)	40	#4	14'-8"	—
t(E)	128	#4	9'-8"	—
w(E)	80	#5	30'-8"	—
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	89.2
Concrete Structures			Cu. Yd.	19.2
Reinforcement Bars, Epoxy Coated			Pound	37,060

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

DESIGNED: SMK 2/5/2018
 DRAWN: MGM 2/11/2018
 REVIEWED: SMK/FLN 7/20/2020

I:\16\jobs\16L0568\CAD\Struct\Sheet\012 Bridge Approach Slab Sheet 2 of 2.dgn



USER NAME = onder00846
 PLOT SCALE = 0:2.0000 '1' / in.
 PLOT DATE = 7/28/2020

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 DRAWN - MGM
 CHECKED - SMK/FLN

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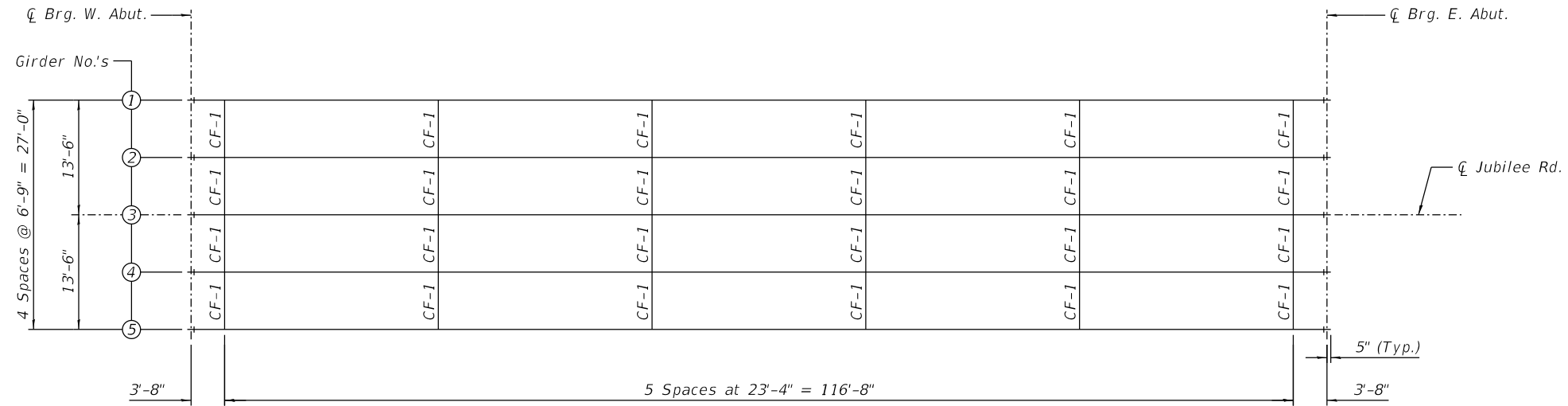
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 072-3160

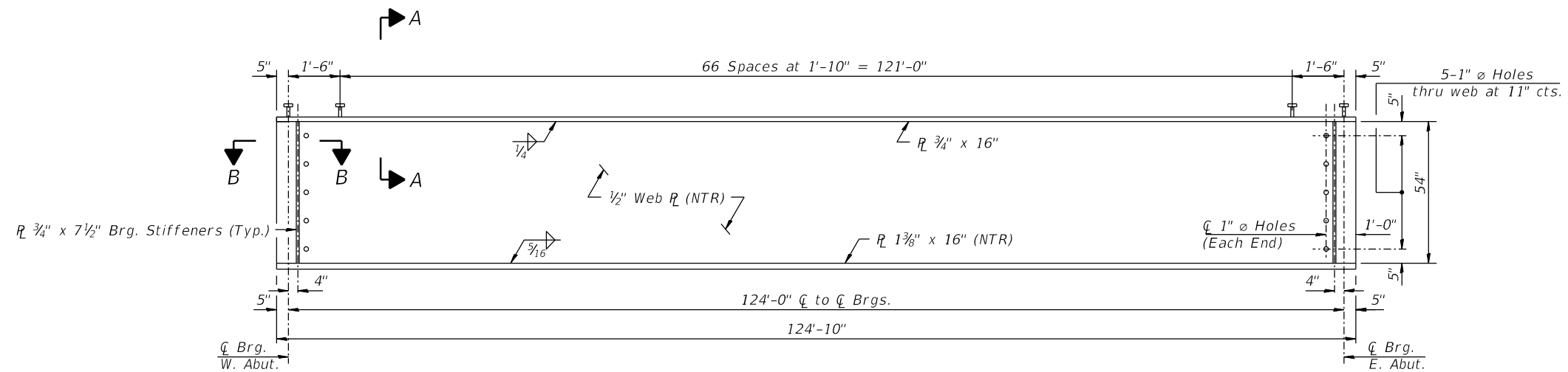
SHEET NO. 12 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	32
				CONTRACT NO. 89745

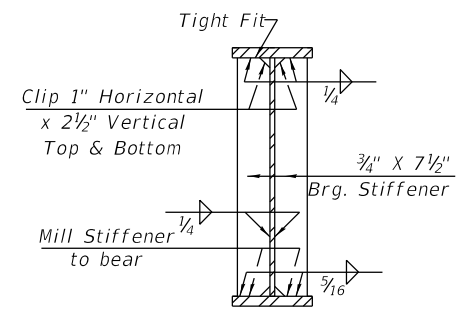
ILLINOIS FED. AID PROJECT



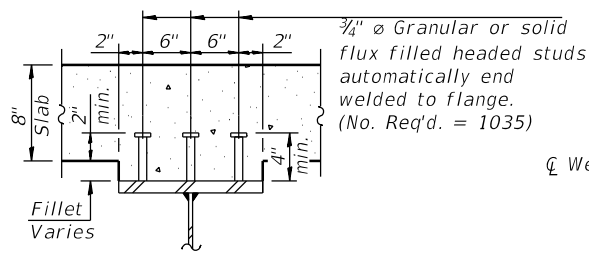
FRAMING PLAN



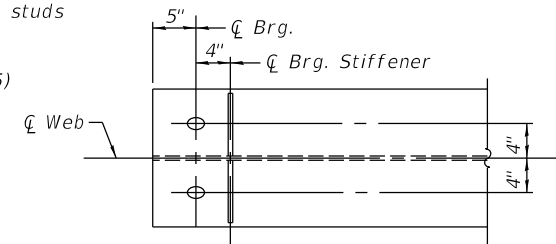
GIRDER ELEVATION



BEARING STIFFENER



SECTION A-A



SECTION B-B

Notes:
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

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 DRAWN - MGM 2/17/2018
 REVIEWED - SMK/FLN 7/20/2020

8-11-2017
 I:\16\jobs\16L0568\CAD\Struct\Sheet\013 Structural Steel Framing Plan.dgn



USER NAME = onder00846	DESIGNED - SMK	REVISED -
PLOT SCALE = 0:2.0000 ' = 1"	CHECKED - BWC/FLN	REVISED -
PLOT DATE = 7/28/2020	DRAWN - MGM	REVISED -
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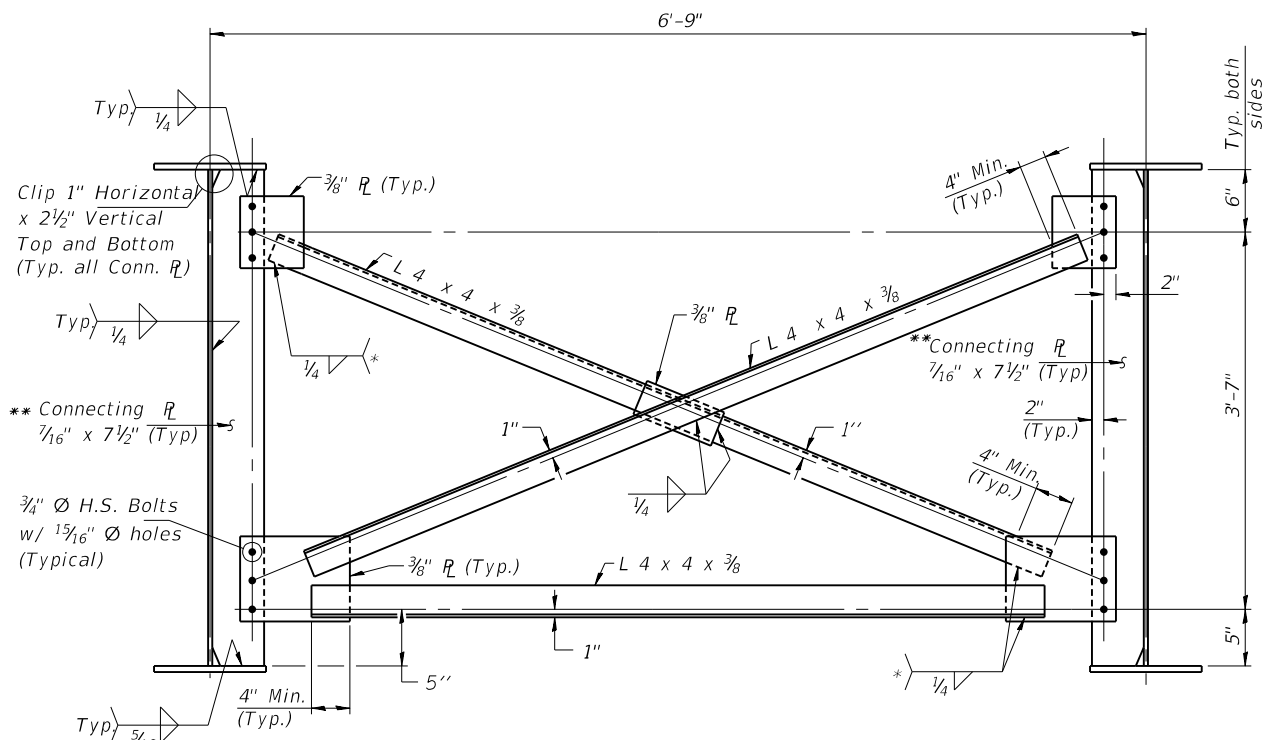
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL FRAMING PLAN
 STRUCTURE NO. 072-3160**

SHEET NO. 13 OF 19 SHEETS

F.A.S. RTE. 1386	SECTION 14-00113-04-BR	COUNTY PEORIA	TOTAL SHEETS 54	SHEET NO. 33
CONTRACT NO. 89745				

ILLINOIS FED. AID PROJECT

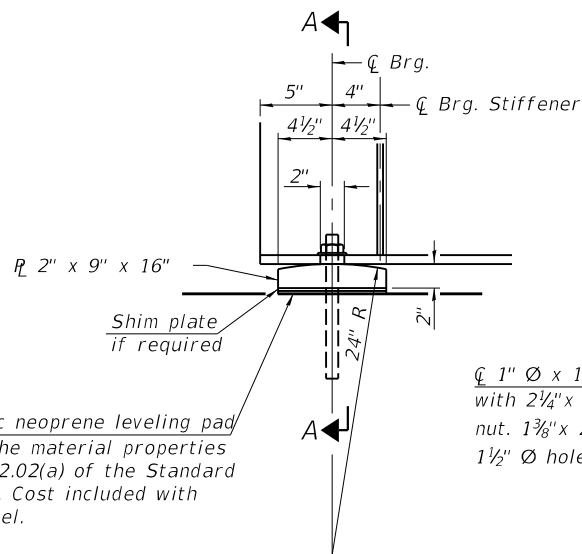


* Fillet weld angles along 3 sides on one face of gusset plate.
 ** Connecting Plate not required on outside of exterior girder.

INTERIOR CROSS FRAME CF-1
 (24 Required)

Notes:

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
 Structural steel for the cross frames shall be: AASHTO M270, Grade 50W.

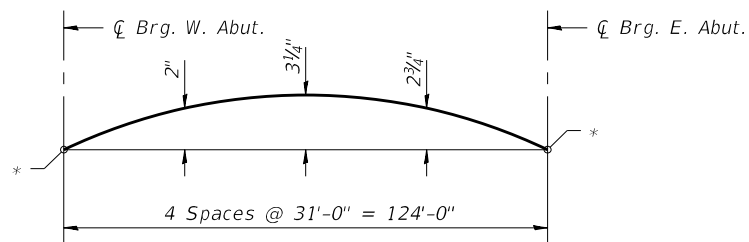


ELEVATION AT ABUTMENT

FIXED BEARING

INTERIOR GIRDER MOMENT TABLE		0.5 Sp. 1
I_s	(in ⁴)	31132
$I_c(n)$	(in ⁴)	75457
$I_c(3n)$	(in ⁴)	54773
S_s	(in ³)	1309
$S_c(n)$	(in ³)	1717
$S_c(3n)$	(in ³)	1584
DC1	(k/')	0.931
M_{DC1}	(k)	1789
DC2	(k/')	0.210
M_{DC2}	(k)	404
DW	(k/')	0.300
M_{DW}	(k)	577
LLDF		0.536
$M_{\xi + IM}$	(k)	2051
M_u (Strength I)	(k)	7196
ϕM_b	(k)	8660
f_s DC1	(ksi)	16.39
f_s DC2	(ksi)	3.06
f_s DW	(ksi)	4.37
f_s ($\xi + IM$)	(ksi)	14.33
f_s (Service II)	(ksi)	42.46
$0.95R_h F_{yf}$	(ksi)	47.30
V_r	(k)	27.8

INTERIOR GIRDER REACTION TABLE		W. or E. Abuts.
LLDF		0.725
OCF		-
R_{DC1}	(k)	57.7
R_{DC2}	(k)	13.0
R_{DW}	(k)	18.6
$R_{\xi + IMP}$	(k)	93.0
R_{Total}	(k)	182.3



CAMBER DIAGRAM

* See Table for Final Top of Web Elevations at abutments.

Notes:

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 ASTM 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.

Two 1/8" adjusting shims shall be provided for each bearing assembly in addition to all other plates or shims and placed as shown on bearing details.

The Structural Steel plates of the Bearing Assemblies shall conform to the requirements of AASHTO M270, Grade 50W.

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
 $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in.⁴ and in.³).
 $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 LLDF: Live Load distribution factor.
 $M_{\xi + IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\xi + IM}$
 ϕM_b : 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.).
 f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_s
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$
 f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$
 f_s ($\xi + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 $M_{\xi + IM} / S_c(n)$
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{SDC1} + f_{SDC2} + f_{SDW} + 1.3 f_{s \xi + IM}$
 $0.95R_h F_{yf}$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 V_r : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.
 OCF: Obtuse correction factor.

TOP OF WEB ELEVATIONS TABLE
 (For Fabrication Only)

Girder Number	☉ Brg. W. Abut.	☉ Brg. E. Abut.
1	586.61	585.64
2	586.75	585.78
3	586.88	585.91
4	586.75	585.78
5	586.61	585.64

BILL OF MATERIAL

ITEM	UNIT	Quantity
Anchor Bolts, 1"	Each	20

DESIGNED: SMK 2/5/2018
 DRAWN: MGM 2/7/2018
 REVIEWED: SMK/FLN 2/20/2020

I:\16\jobs\16L0568\CAD\Struct\Sheet\014 Structural Steel Details.dgn



USER NAME = Morey00259
 PLOT SCALE = 0:2.0000' 1" / in.
 PLOT DATE = 9/15/2020

DESIGNED - SMK
 CHECKED - BWC/FLN
 DRAWN - MGM
 CHECKED - SMK/FLN

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

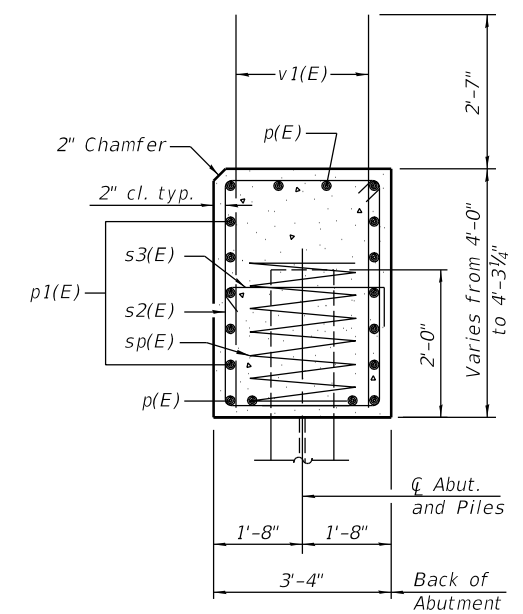
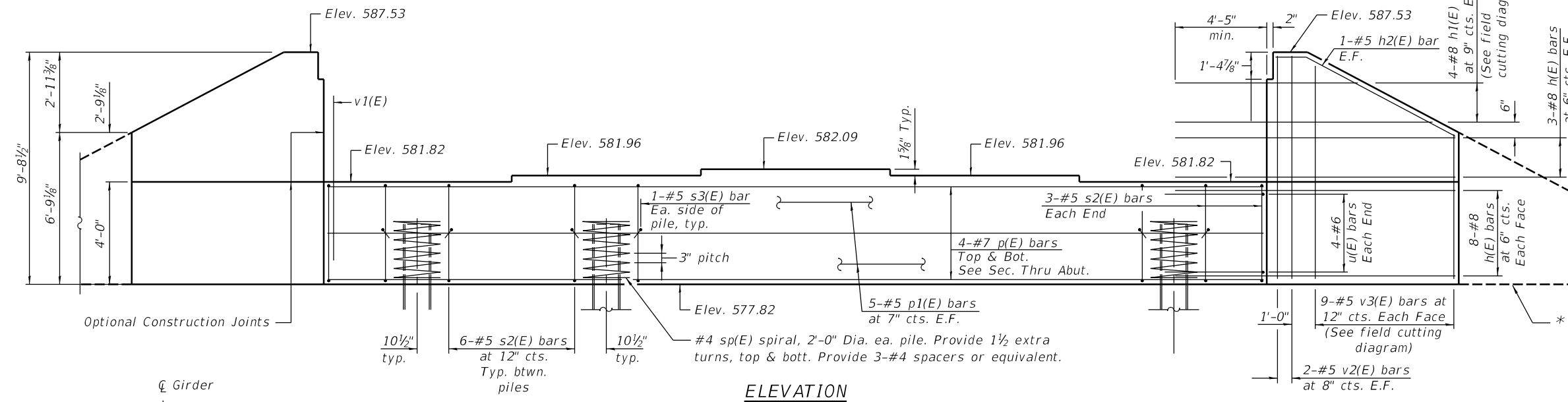
STRUCTURAL STEEL DETAILS & FIXED BEARING DETAILS
 STRUCTURE NO. 072-3160

SHEET NO. 14 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	34
CONTRACT NO.89745				

ILLINOIS FED. AID PROJECT

Notes:
Pour steps monolithically with cap.

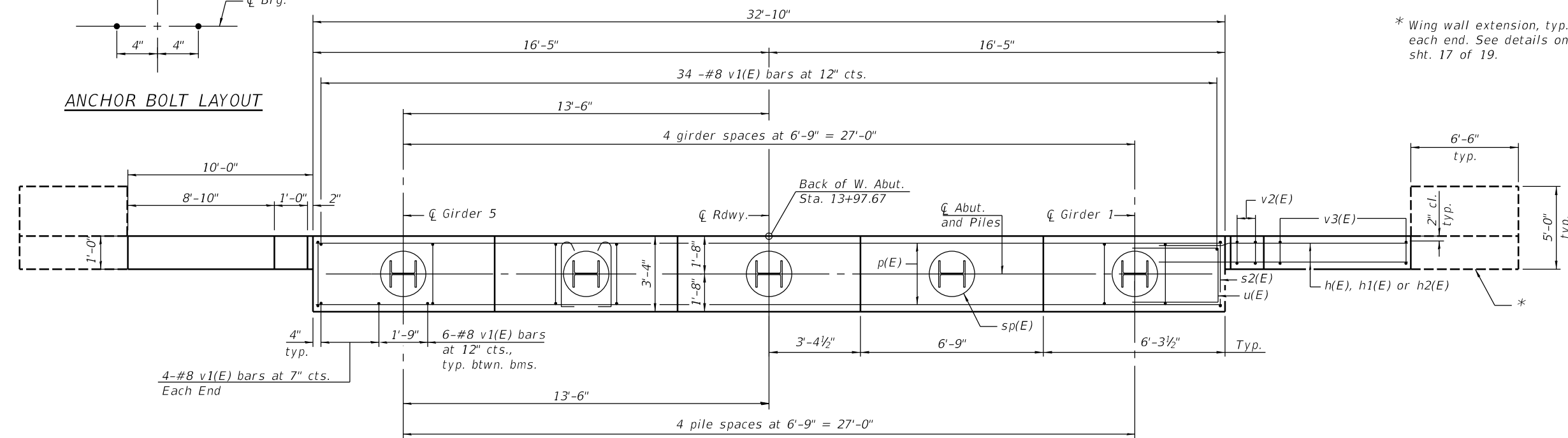
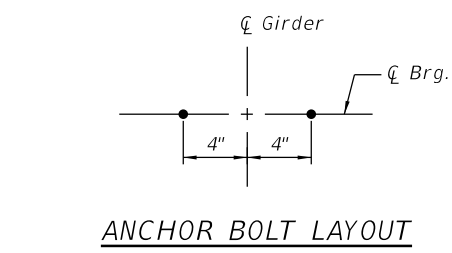


SEC. THRU ABUT.

BILL OF MATERIAL

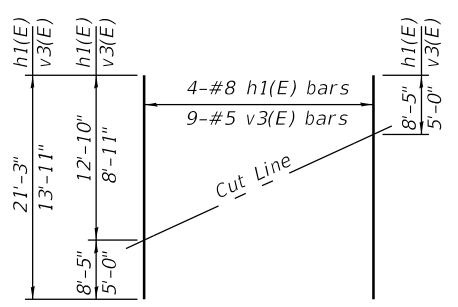
Bar	No.	Size	Length	Shape
h(E)	44	#8	14'-3"	—
h1(E)	8	#8	21'-3"	—
h2(E)	4	#5	10'-5"	—
p(E)	8	#7	32'-6"	—
p1(E)	10	#5	32'-6"	—
s2(E)	30	#5	14'-3"	□
s3(E)	10	#5	4'-0"	⌒
sp(E)	5	#4	2'-0"	WWWW
u(E)	8	#6	10'-6"	□
v1(E)	64	#8	5'-11"	—
v2(E)	8	#5	9'-4"	—
v3(E)	18	#5	13'-11"	—
Structure Excavation		Cu. Yd.	90	
Concrete Structures		Cu. Yd.	22.9	
Reinforcement Bars, Epoxy Coated		Pound	5270	
Furnishing - Piles, HP14x89		Foot	180	
Driving Piles		Foot	180	
Test Pile, HP14x89		Each	1	

For details of piles see sheet 17 of 18.



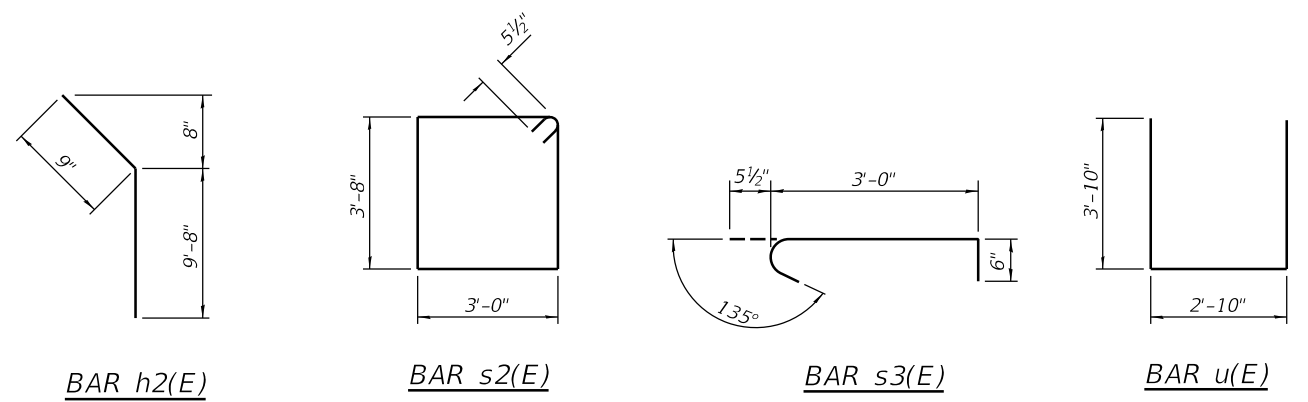
PILE DATA

Type: HP 14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 45 ft.
No. Production Piles: 4
No. Test Piles: 1



Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

PLAN



DESIGNED: SMK 2/5/2018
DRAWN: MGM 2/1/2018
REVIEWED: SMK/FLN 2/20/2020

I:\16\jobs\16L0568\CAD\Struct\Sheet\015 West Abutment.dgn



USER NAME = onder00846	DESIGNED - SMK	REVISED -
PLOT SCALE = 0:2.0000 '1' = 1/8"	CHECKED - BWC/FLN	REVISED -
PLOT DATE = 7/28/2020	DRAWN - MGM	REVISED -
	CHECKED - SMK/FLN	REVISED -

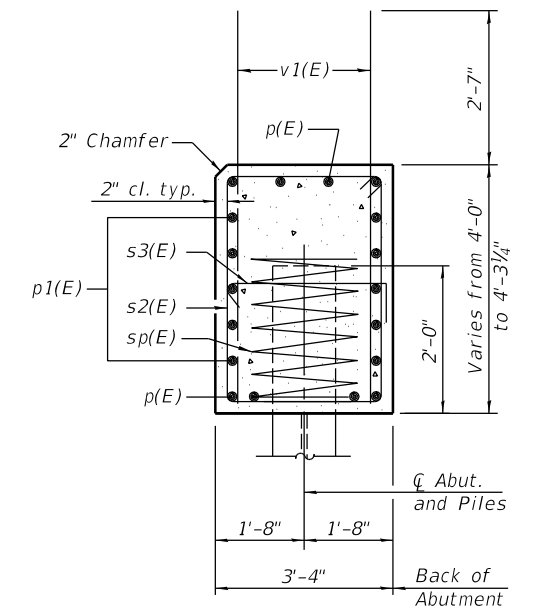
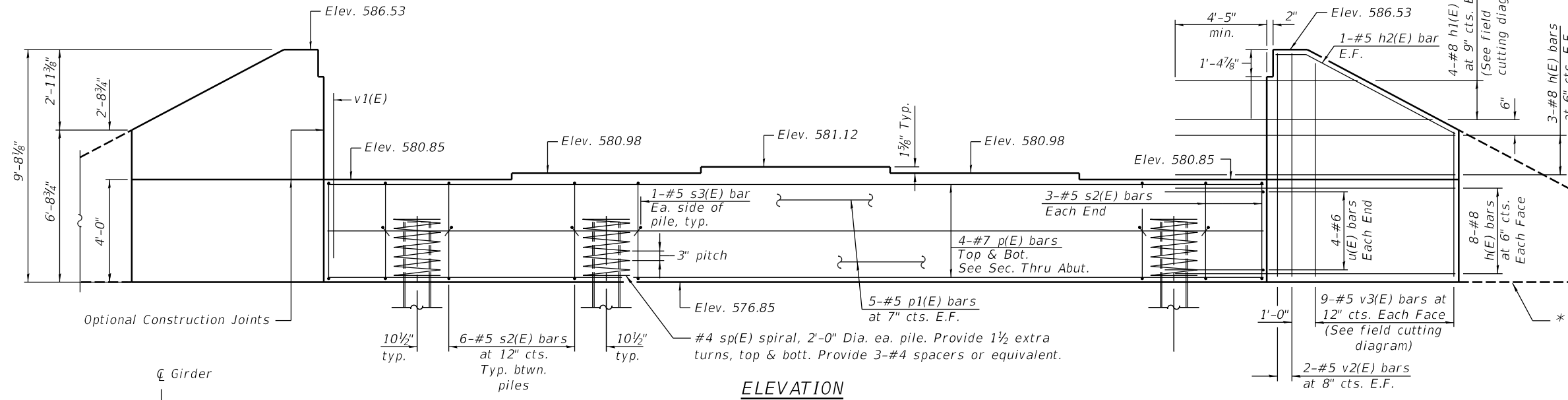
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 072-3160

SHEET NO. 15 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	35
CONTRACT NO. 89745			ILLINOIS FED. AID PROJECT	

Notes:
Four steps monolithically with cap.

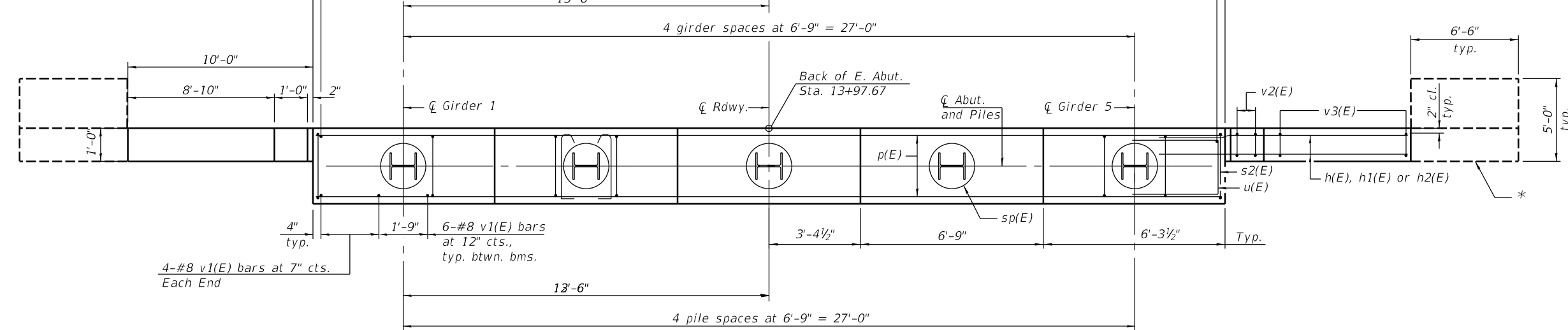
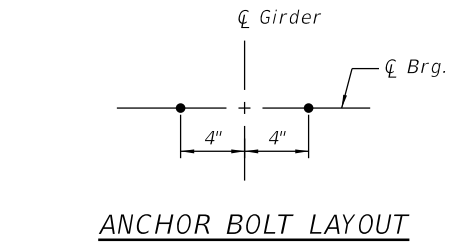


SEC. THRU ABUT.

BILL OF MATERIAL

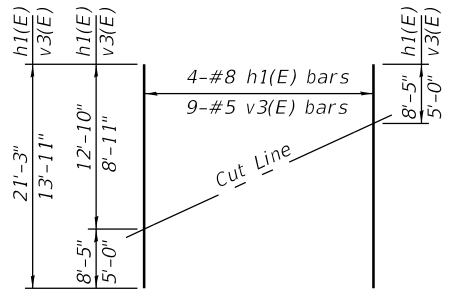
Bar	No.	Size	Length	Shape
h(E)	44	#8	14'-3"	—
h1(E)	8	#8	21'-3"	—
h2(E)	4	#5	10'-5"	—
p(E)	8	#7	32'-6"	—
p1(E)	10	#5	32'-6"	—
s2(E)	30	#5	14'-3"	□
s3(E)	10	#5	4'-0"	◁
sp(E)	5	#4	2'-0"	WWWW
u(E)	8	#6	10'-6"	▭
v1(E)	64	#8	5'-11"	—
v2(E)	8	#5	9'-4"	—
v3(E)	18	#5	13'-11"	—
Structure Excavation		Cu. Yd.	77	
Concrete Structures		Cu. Yd.	22.9	
Reinforcement Bars, Epoxy Coated		Pound	5270	
Furnishing - Piles, HP14x89		Foot	160	
Driving Piles		Foot	160	
Test Pile, HP14x89		Each	1	

For details of piles see sheet 17 of 18.



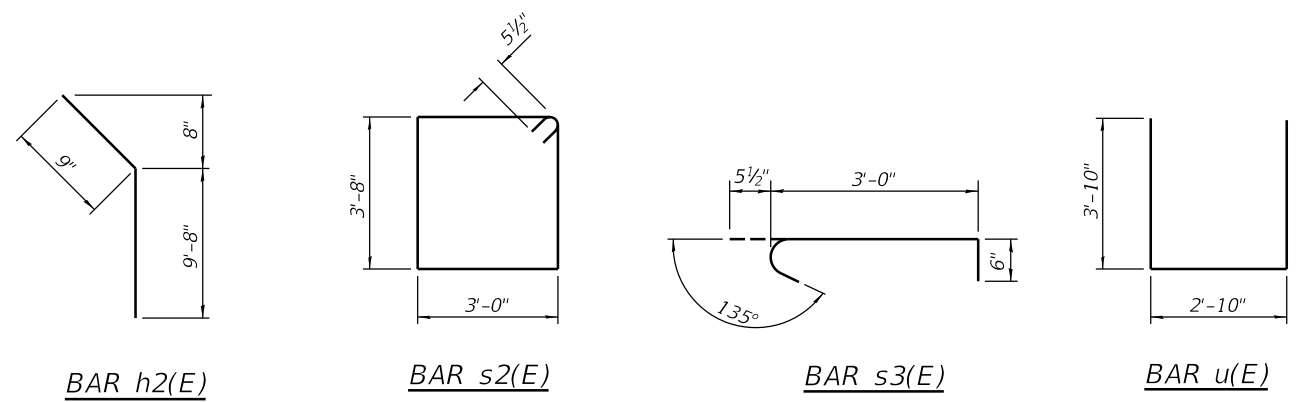
PILE DATA

Type: HP 14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 40 ft.
No. Production Piles: 4
No. Test Piles: 1



Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

PLAN



DESIGNED: SMK 2/5/2018
DRAWN: MGM 2/11/2018
REVIEWED: SMK/FLN 2/20/2020

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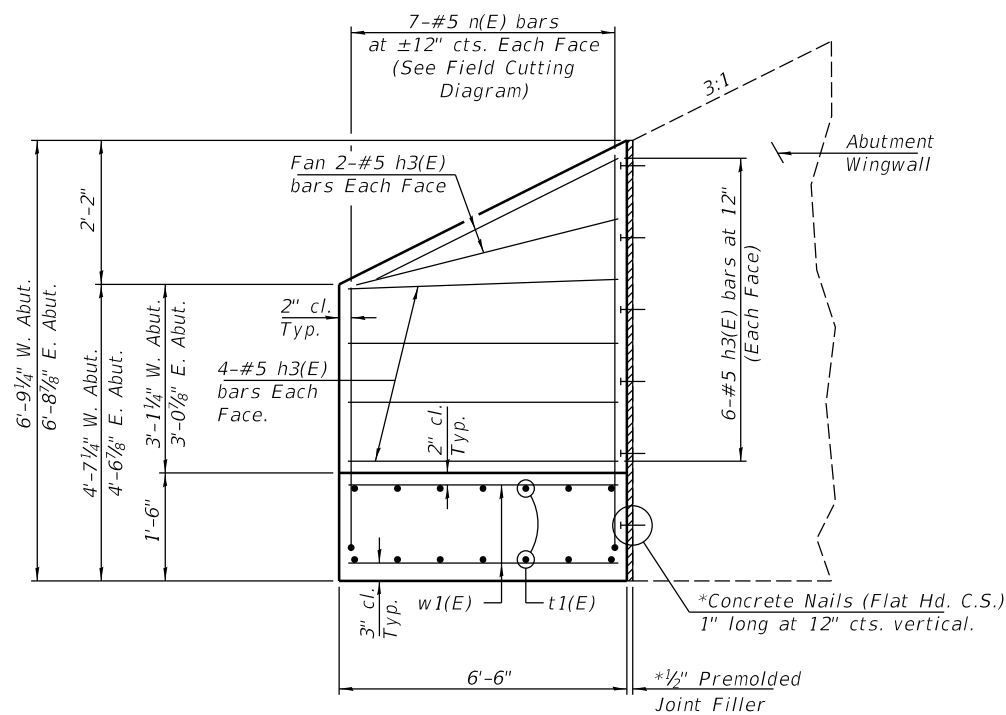
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PLOT DATE = 7/28/2020	DRAWN - MGM	REVISED -
	CHECKED - SMK/FLN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 072-3160

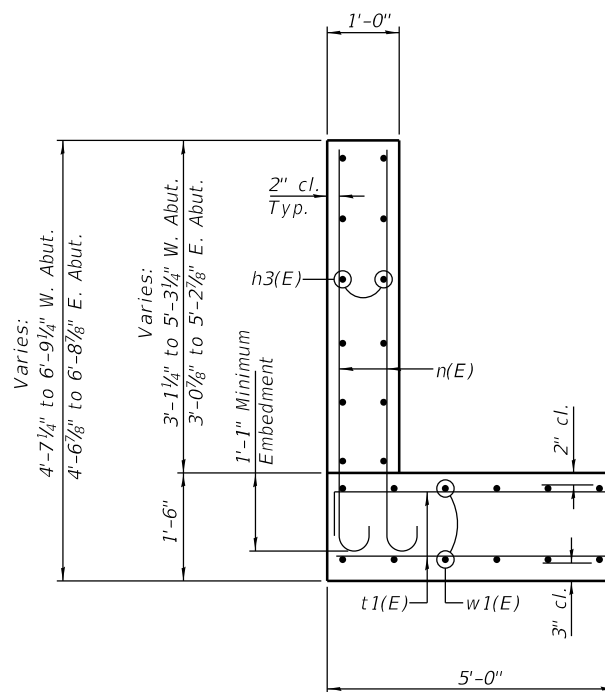
SHEET NO. 16 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	36
			CONTRACT NO.89745	
ILLINOIS FED. AID PROJECT				

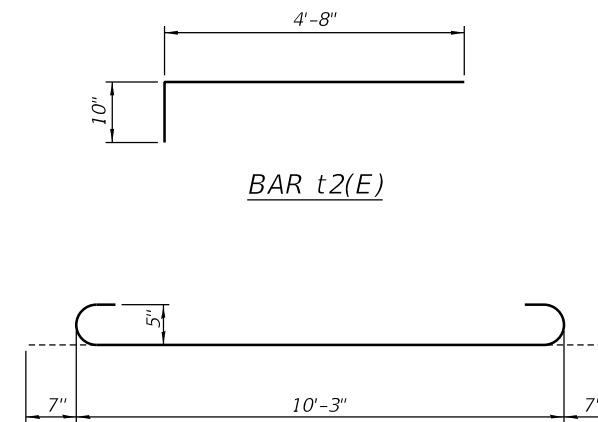


ELEVATION

*Cost included with Concrete Structures



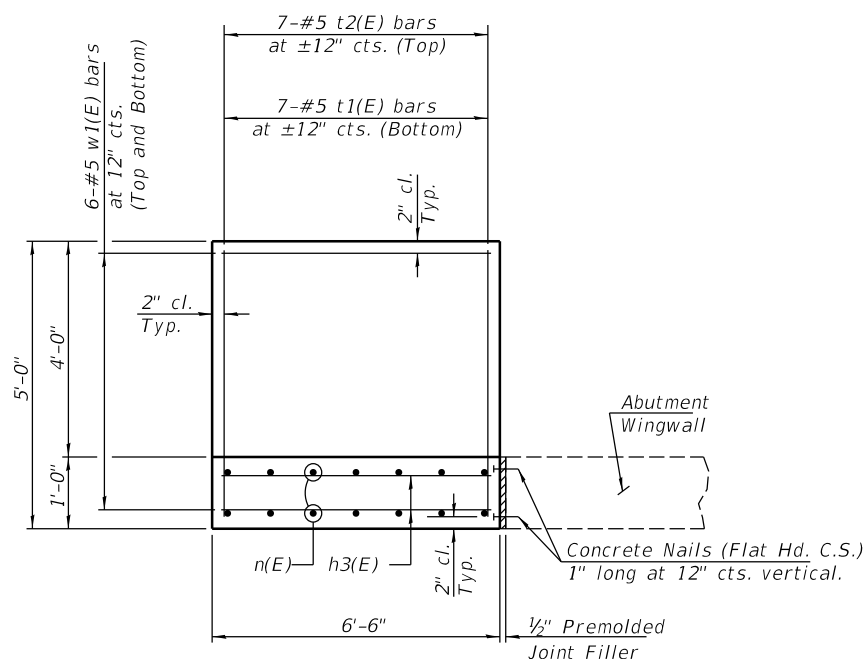
SECTION THRU WALL



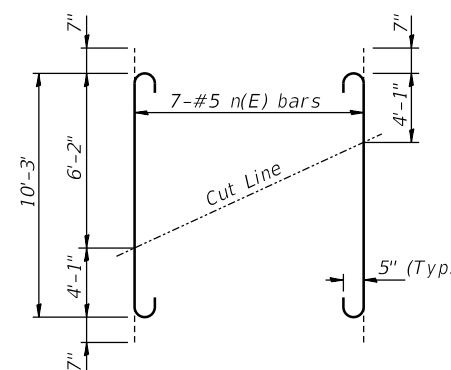
BAR n(E)
(See Field Cutting Diagram)

BILL OF MATERIAL
4 WINGWALL EXTENSIONS

Bar	No.	Size	Length	Shape
h3(E)	48	#5	6'-2"	—
n(E)	28	#5	11'-5"	U
t1(E)	28	#5	4'-8"	—
t2(E)	28	#5	5'-6"	┌
w1(E)	48	#5	6'-2"	—
Structure Excavation			Cu. Yd.	30
Concrete Structures			Cu. Yd.	11.2
Reinforcement Bars, Epoxy Coated			Pound	1250



PLAN



FIELD CUTTING DIAGRAM

Order n(E) full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED: SMK 2/5/2018
DRAWN: MGM 2/7/2018
REVIEWED: SMK/FLN 7/20/2020

I:\16jobs\16L0568\CA0\Struct\Sheet\017 Wingwall Extension.dgn



USER NAME = onder00846
PLOT SCALE = 0:2.0000 ' = 1"
PLOT DATE = 7/28/2020

DESIGNED - SMK
CHECKED - BWC/FLN
DRAWN - MGM
CHECKED - SMK/FLN

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

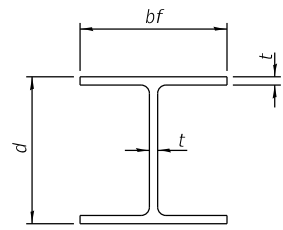
L' TYPE RETAINING WALL WING EXTENSION
STRUCTURE NO. 072-3160

SHEET NO. 17 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	37
CONTRACT NO.89745				

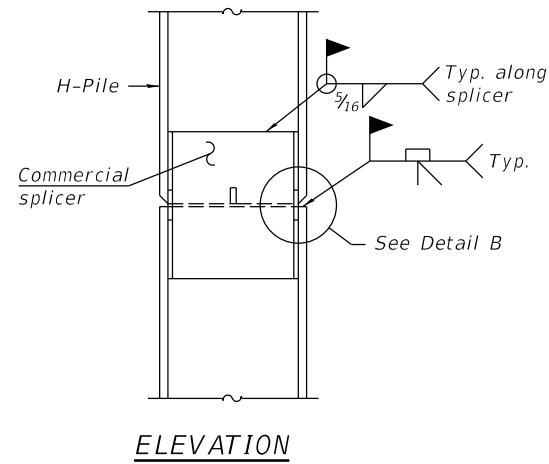
ILLINOIS FED. AID PROJECT

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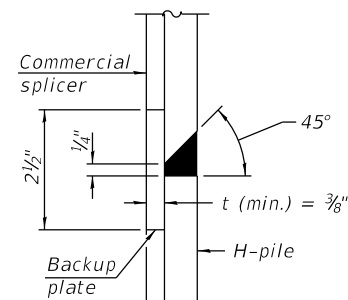


STEEL PILE TABLE

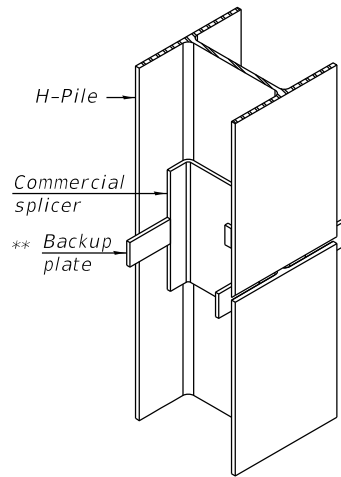
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

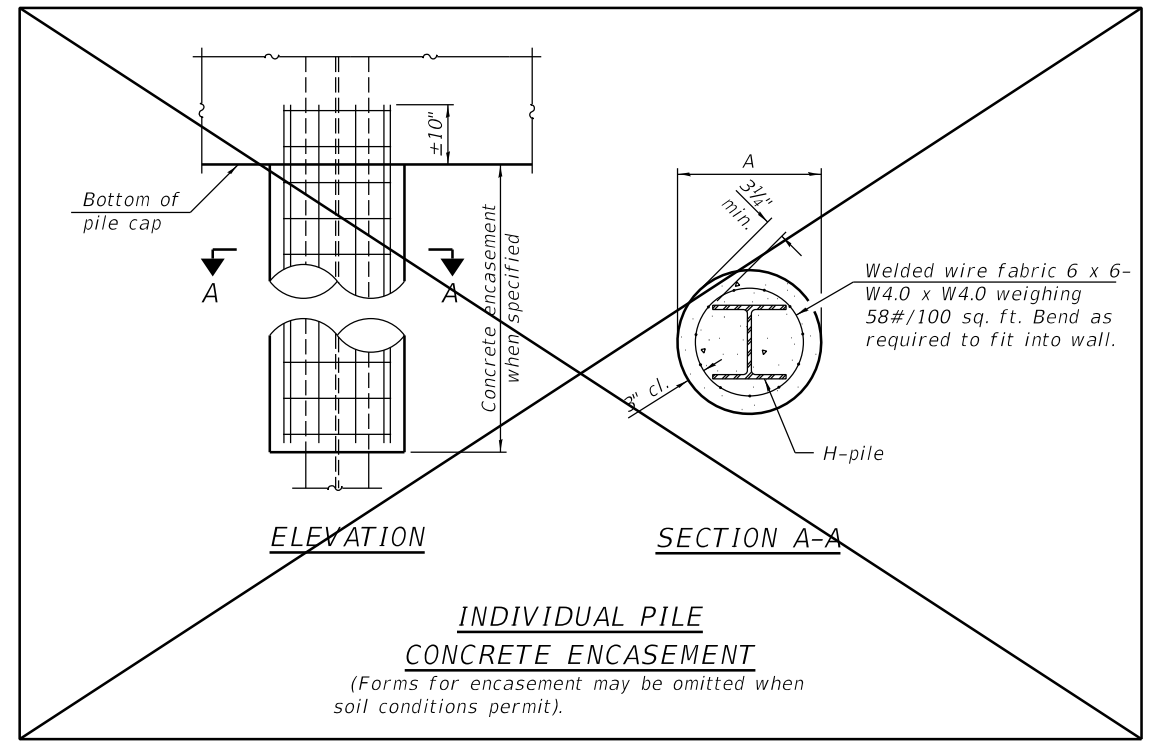


DETAIL "B"

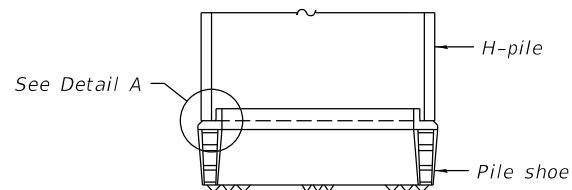


ISOMETRIC VIEW

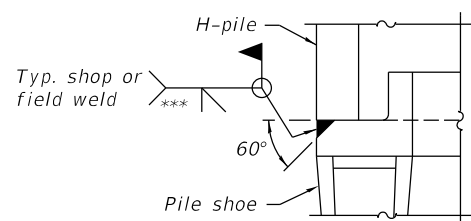
WELDED COMMERCIAL SPLICE



INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



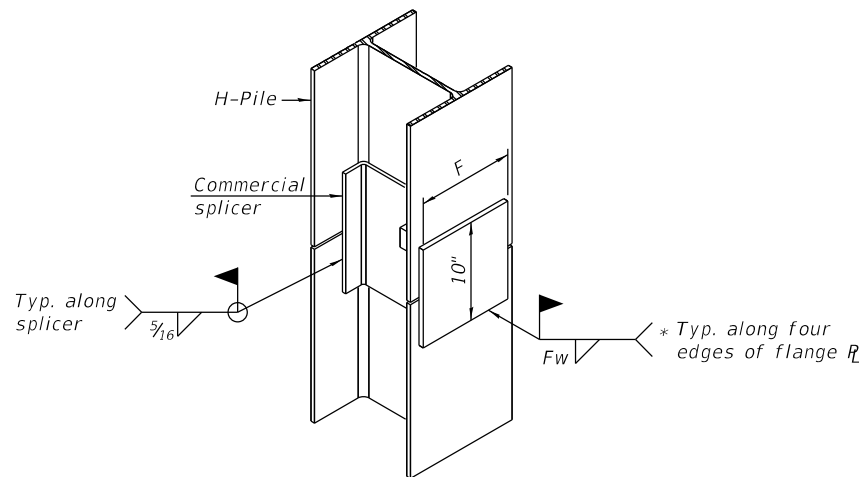
ELEVATION



DETAIL A

SHOE ATTACHMENT

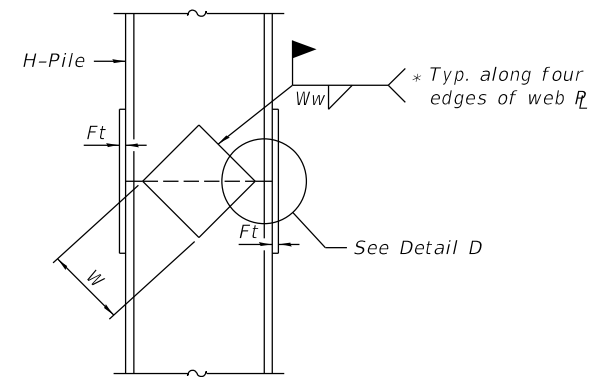
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



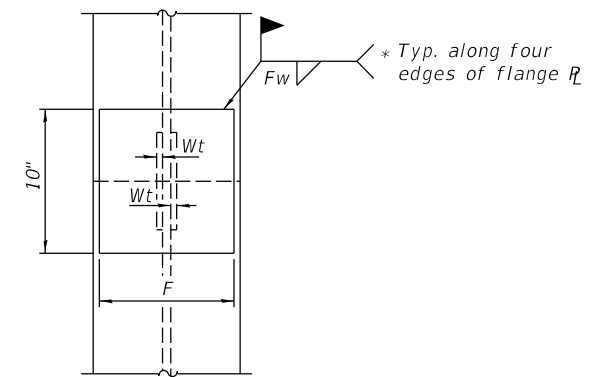
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

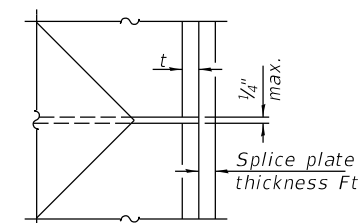
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



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"

DESIGNED - SMK 2/5/2018
DRAWN - MGM 2/7/2018
REVIEWED - SMK/FLN 7/20/2020

F-HP
I:\V6\jobs\16.0568\CAD\Struct\Sheet\018 HP Pile Details.dgn 8-11-2017



USER NAME = andr-00846
DESIGNED - SMK
CHECKED - BWC/FLN
PLOT SCALE = 0:2.0000' = 1"
DRAWN - MGM
PLOT DATE = 7/28/2020
CHECKED - SMK/FLN

DESIGNED - SMK
CHECKED - BWC/FLN
DRAWN - MGM
CHECKED - SMK/FLN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 072-3160

SHEET NO. 18 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	38
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 8/29/17

ROUTE CH D29 DESCRIPTION Brimfield-Jubilee Road Over Jubilee Creek
 SECT. 14-00113-04-BR STRUCT. NO. 072-3160 DRILLED BY D. Crump
 COUNTY Peoria LOCATION N 1.521.181 E 2.393.132 S. 16, TWP. 10N, RNG. 6E

Boring No.	Station	Offset	Surface Elev.	D	B	L	O	Qu	W	Surface Water Elev.	D	B	L	O	Qu	W
			ft	H	S	T	P	tsf	%		H	S	T	P	tsf	%
B-1	15+61	7.00ft LT	586.90													
Asphalt Pavement																
Medium dense brown SANDY LOAM																
			583.90													
Very stiff dark brown-gray SILTY CLAY LOAM																
			580.40													
Stiff to very stiff brown SILTY LOAM																
			553.90													
Very dense gray weathered SHALE																
			573.90													
Soft to medium stiff dark brown SANDY LOAM																
			546.90													
End of Boring at 40'																
			553.90													
Very loose brown fine to medium SAND																
			551.90													

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 8/29/17

ROUTE CH D29 DESCRIPTION Brimfield-Jubilee Road Over Jubilee Creek
 SECT. 14-00113-04-BR STRUCT. NO. 072-3160 DRILLED BY D. Crump
 COUNTY Peoria LOCATION N 1.521.190 E 2.393.067 S. 16, TWP. 10N, RNG. 6E

Boring No.	Station	Offset	Surface Elev.	D	B	L	O	Qu	W	Surface Water Elev.	D	B	L	O	Qu	W
			ft	H	S	T	P	tsf	%		H	S	T	P	tsf	%
B-2	14+95	15.00ft LT	570.20													
Stiff brown-gray SILTY CLAY LOAM																
			567.20													
Stiff brown-dark brown SILTY LOAM																
			564.70													
Soft brown-dark brown SILTY LOAM																
			562.20													
Very loose dark brown SILTY LOAM																
			559.20													
Very loose dark brown SANDY LOAM																
			556.70													
Medium dense brown fine to coarse SAND																
			552.20													
Very dense gray weathered SHALE																
			546.20													
End of Boring at 24'																

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 8/28/17

ROUTE CH D29 DESCRIPTION Brimfield-Jubilee Road Over Jubilee Creek
 SECT. 14-00113-04-BR STRUCT. NO. 072-3160 DRILLED BY D. Crump
 COUNTY Peoria LOCATION N 1.521.172 E 2.392.943 S. 21, TWP. 10N, RNG. 6E

Boring No.	Station	Offset	Surface Elev.	D	B	L	O	Qu	W	Surface Water Elev.	D	B	L	O	Qu	W
			ft	H	S	T	P	tsf	%		H	S	T	P	tsf	%
B-3	13+73	6.00ft RT	587.90													
Asphalt Pavement																
Very stiff brown SILTY LOAM																
			584.90													
Stiff dark brown SILTY CLAY LOAM																
			557.90													
Dense gray weathered SHALE																
			579.90													
Very stiff to stiff brown SILTY CLAY LOAM																
			549.90													
Very dense gray weathered SHALE																
			569.90													
Soft dark brown SILTY LOAM																
			564.90													
Very loose brown fine to medium SAND																
			537.90													
End of Boring at 50'																

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

DESIGNED - SMK 2/5/2018
 DRAWN - MGM 3/7/2018
 REVIEWED - SMK/FLN 7/20/2020

I:\16\jobs\16L0568\CA0\Struct\Sheet\019 Boring Logs.dgn



USER NAME = onder00846
 PLOT SCALE = 0.2:0000 ' = 1"
 PLOT DATE = 7/28/2020

DESIGNED - SMK
 CHECKED - BWC/FLN
 DRAWN - MGM
 CHECKED - SMK/FLN

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 072-3160

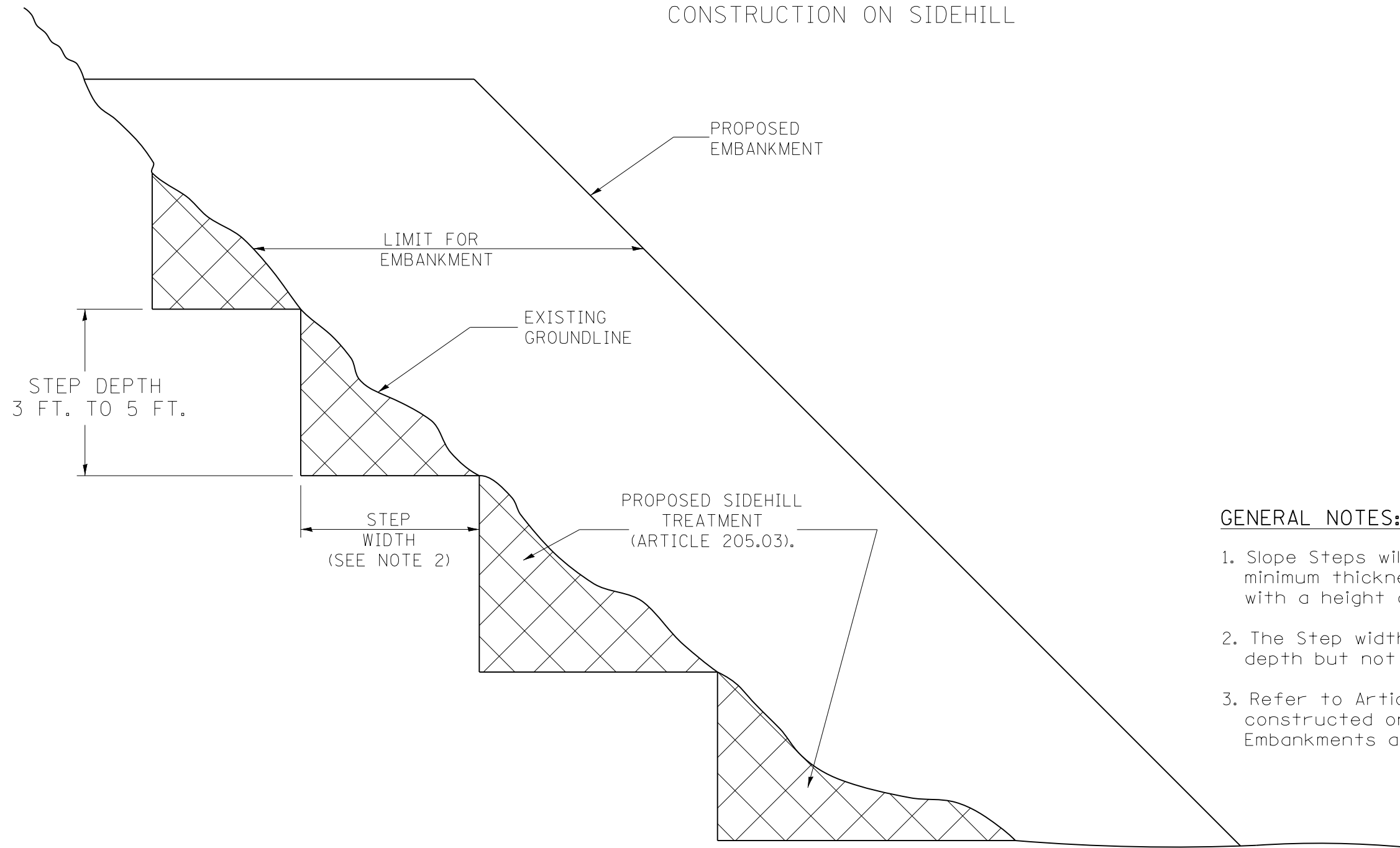
SHEET NO. 19 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1386	14-00113-04-BR	PEORIA	54	39
CONTRACT NO. 89745				

ILLINOIS FED. AID PROJECT

SLOPE STEPS DETAIL

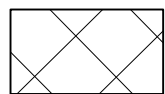
TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

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

FILE NAME =	USER NAME = onder00846	DESIGNED -	REVISED -
I:\16\jobs\16L0568\CAD\Road\Sheet\sh-t-standard01.dgn		DRAWN -	REVISED -
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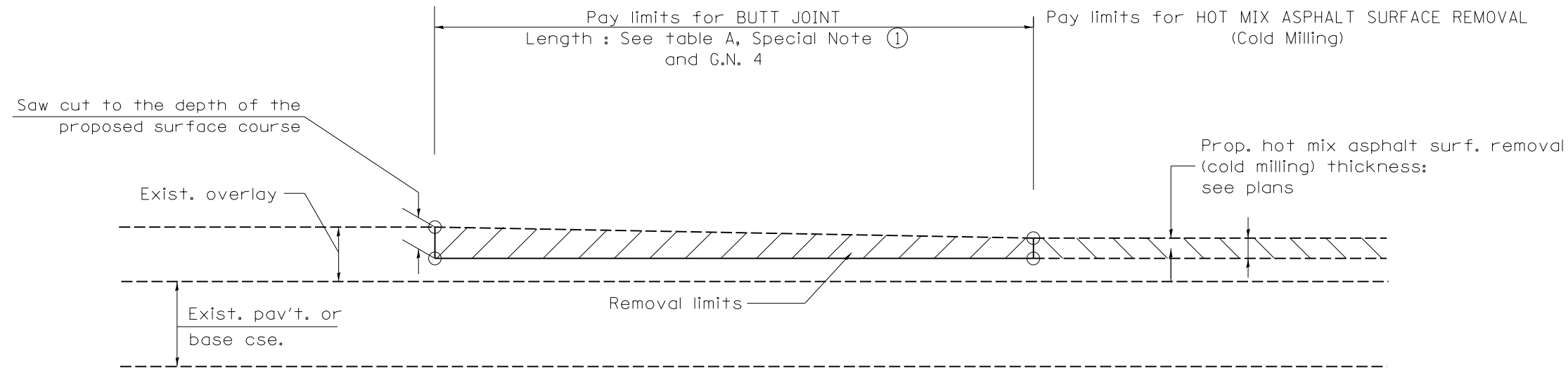
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPE STEPS DETAIL
CADD STD. 205001-D4**

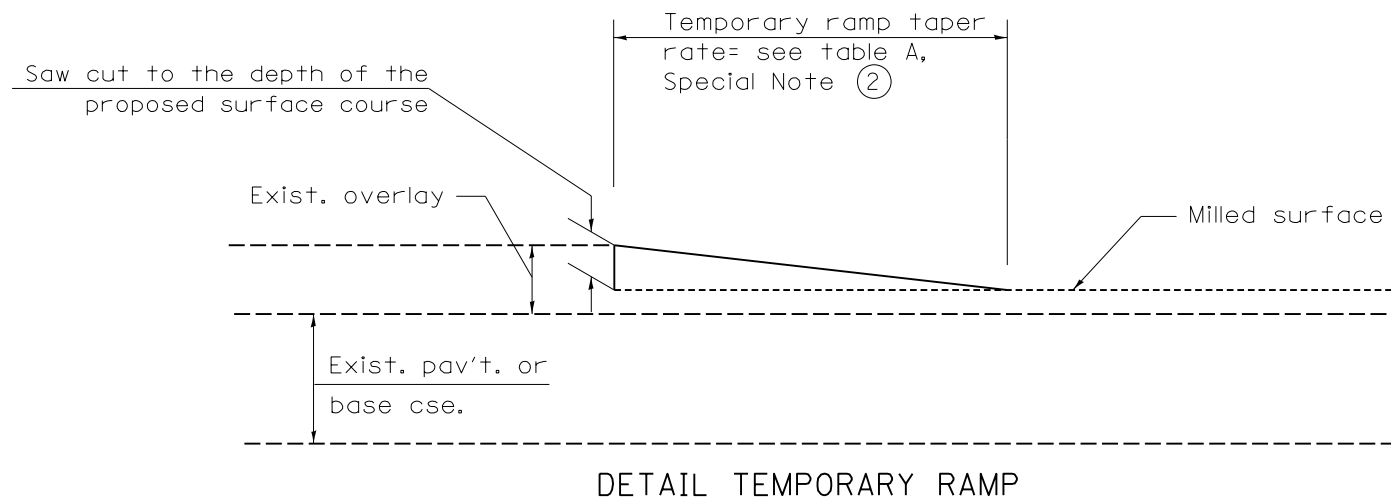
SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	40
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

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**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.

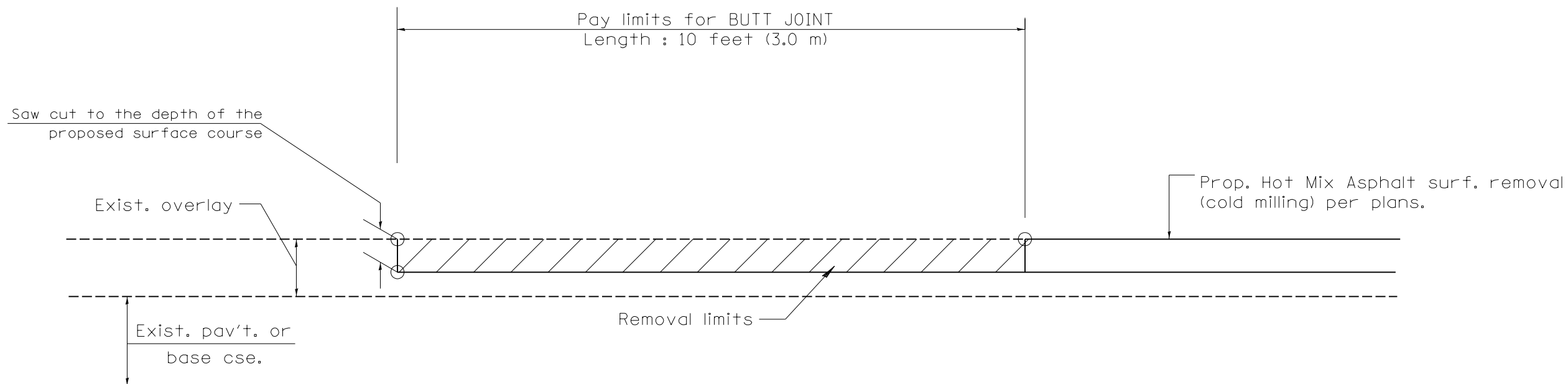
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	PLOT DATE = 7/28/2020	DATE - 7/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	42
ILLINOIS FED. AID PROJECT			CONTRACT NO.89745	



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.

FILE NAME =	USER NAME = onder0046	DESIGNED -	REVISED -
I:\16\jobs\16L0568\CAD\Road\Sheet\sh-t-standard04.dgn		DRAWN -	REVISED -
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	PLOT DATE = 7/28/2020		

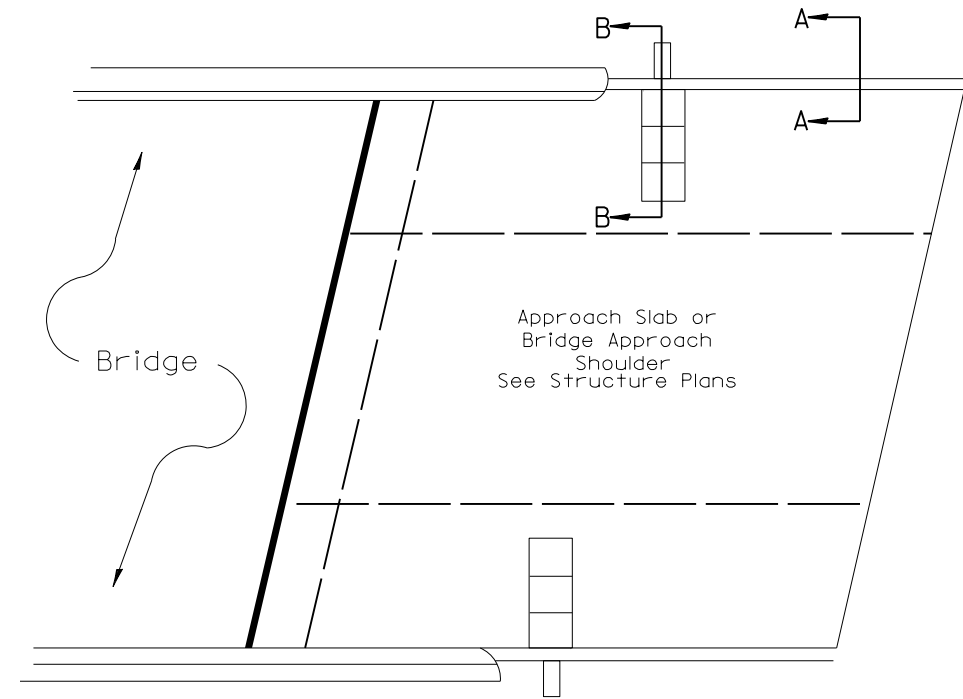
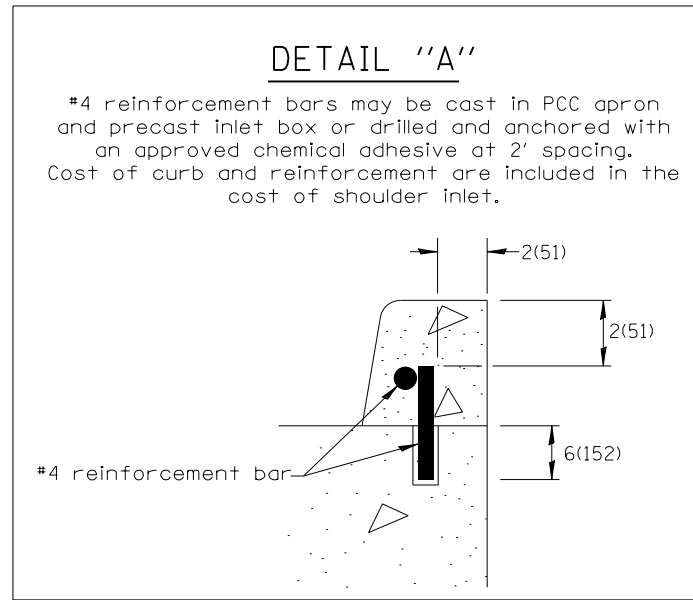
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS
CADD STD. 406101-D4

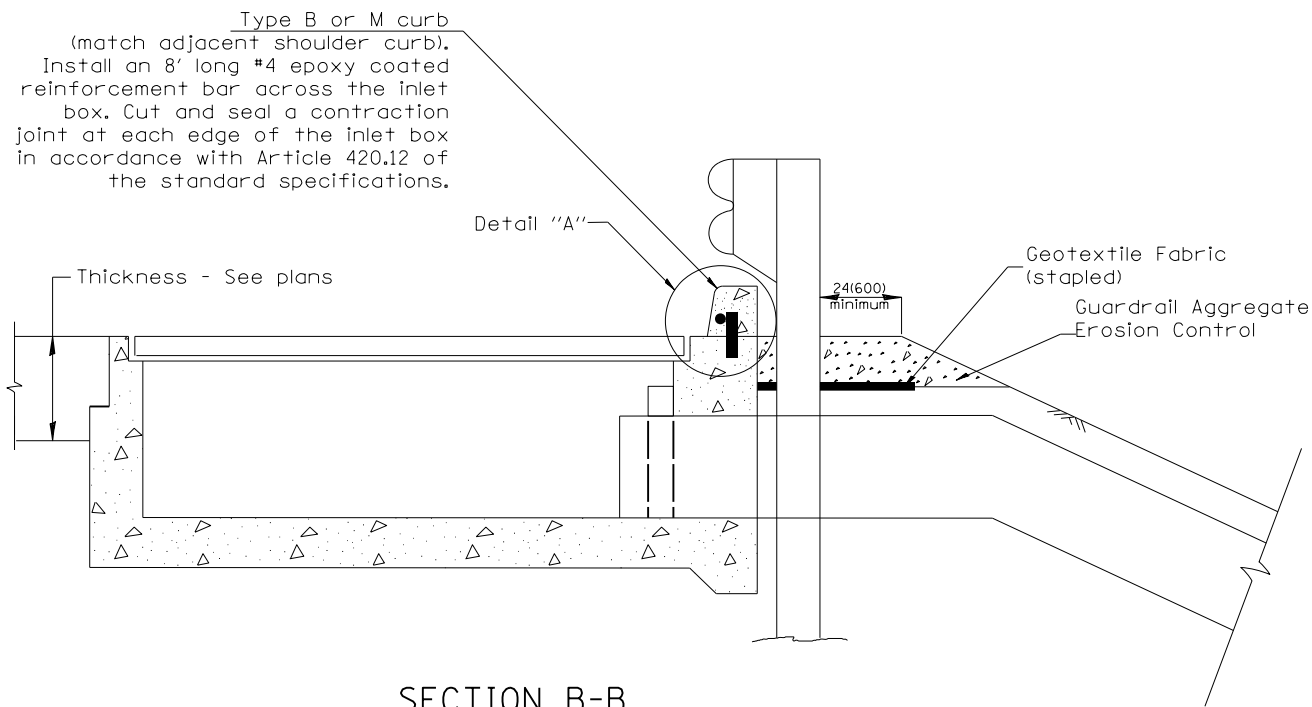
SCALE: NTS SHEET OF SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	43
ILLINOIS FED. AID PROJECT			CONTRACT NO.89745	

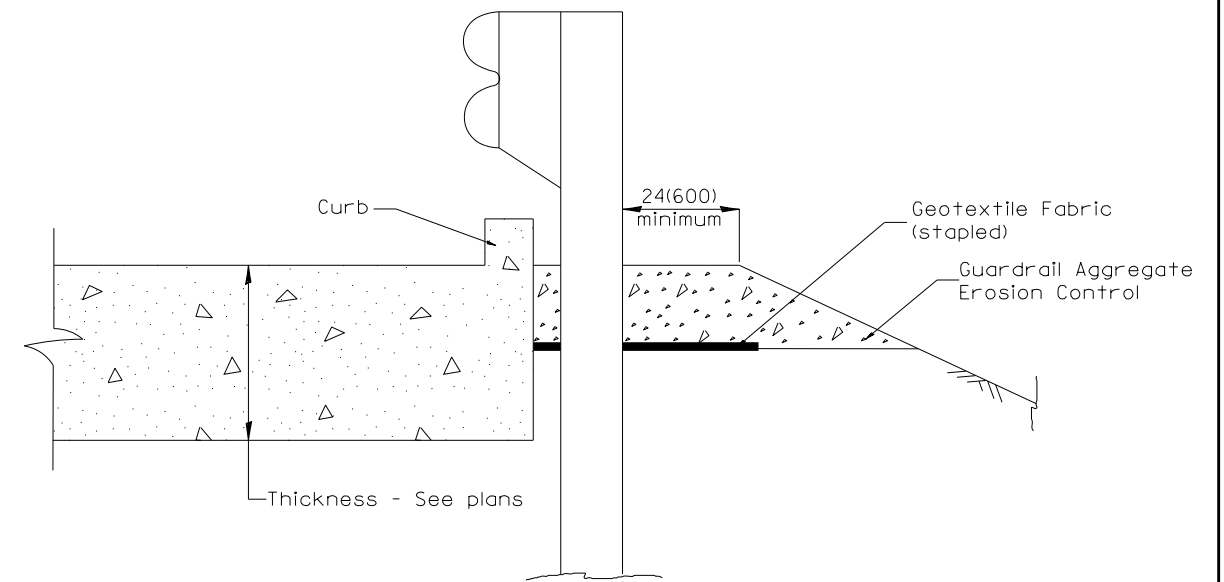
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PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



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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	PLOT DATE = 7/28/2020	DATE = 7/31/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
CADD STD. 630101-D4

SCALE: NTS SHEET OF SHEETS STA. TO STA.

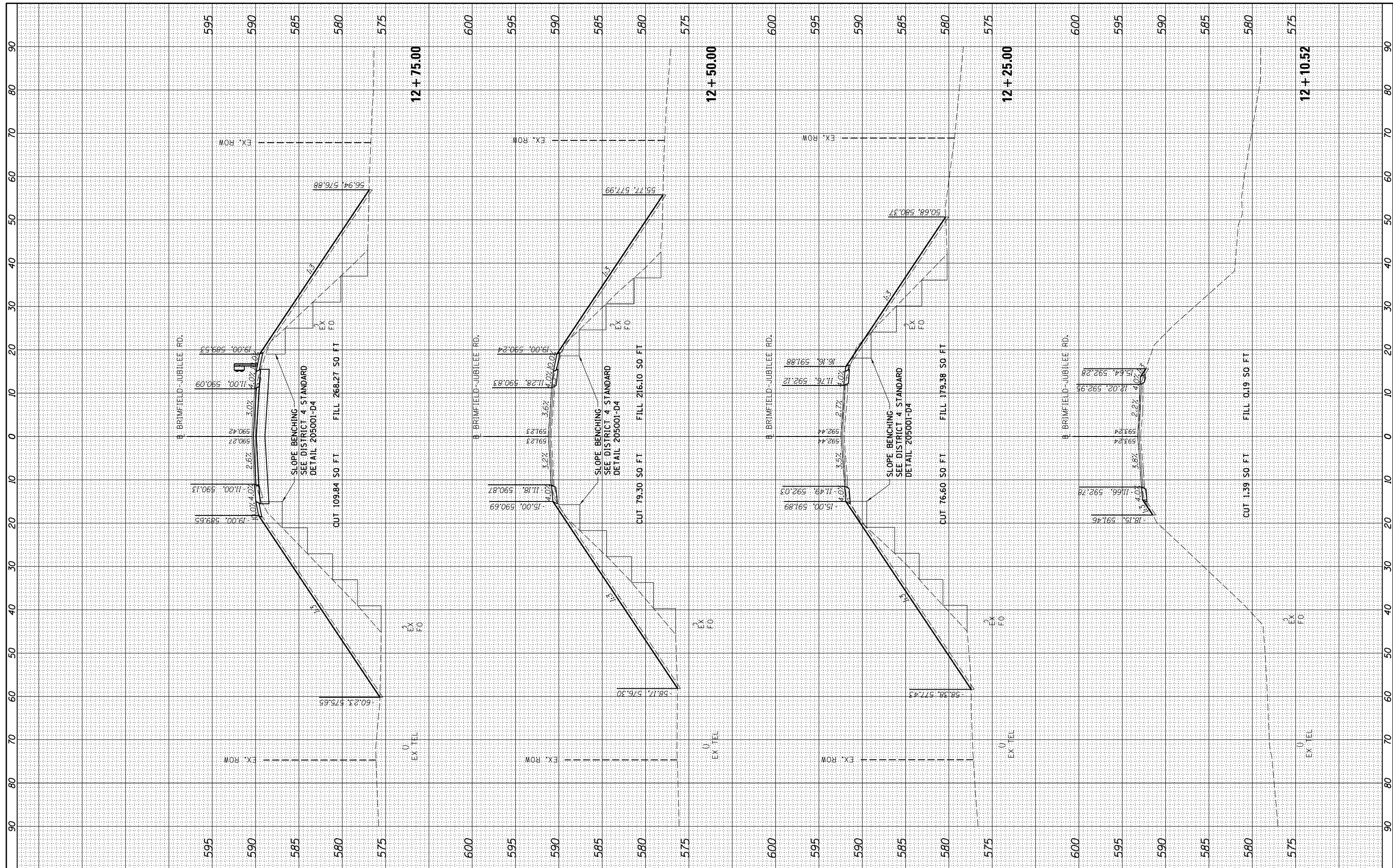
E.W. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	45
CONTRACT NO.89745				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

LAYOUT DRAWN REVIEWED	RDH 9/27/2019
	RLA 2/28/2020
	BAB 2/28/2020



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 7/28/2020

DESIGNED - RDH	REVISD -
DRAWN - RLA	REVISD -
CHECKED - BAB	REVISD -
DATE - 7/31/2020	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 12+10.52 TO STA. 12+75.00

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	48
CONTRACT NO.			89745	

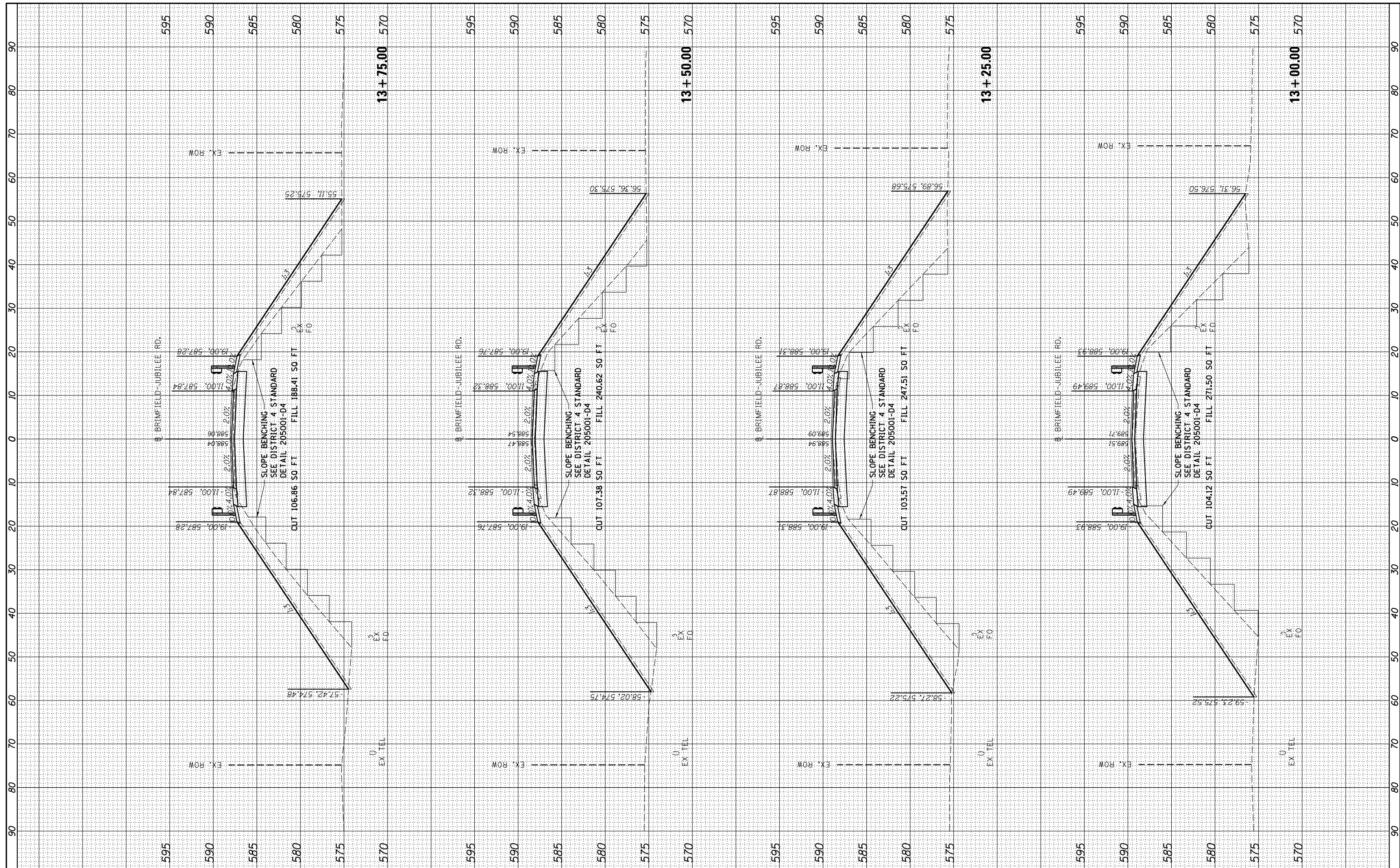
ILLINOIS FED. AID PROJECT

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



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

LAYOUT	RDH	9/27/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020



FILE NAME = I:\16jobs\16L0568\CAD\Road\Sheet\sh-t-xsec01.dgn
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DESIGNED	-	RDH
DRAWN	-	RLA
CHECKED	-	BAB
DATE	-	7/31/2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS**
 SCALE: 1"=10'
 SHEET OF SHEETS STA. 13+00.00 TO STA. 13+75.00

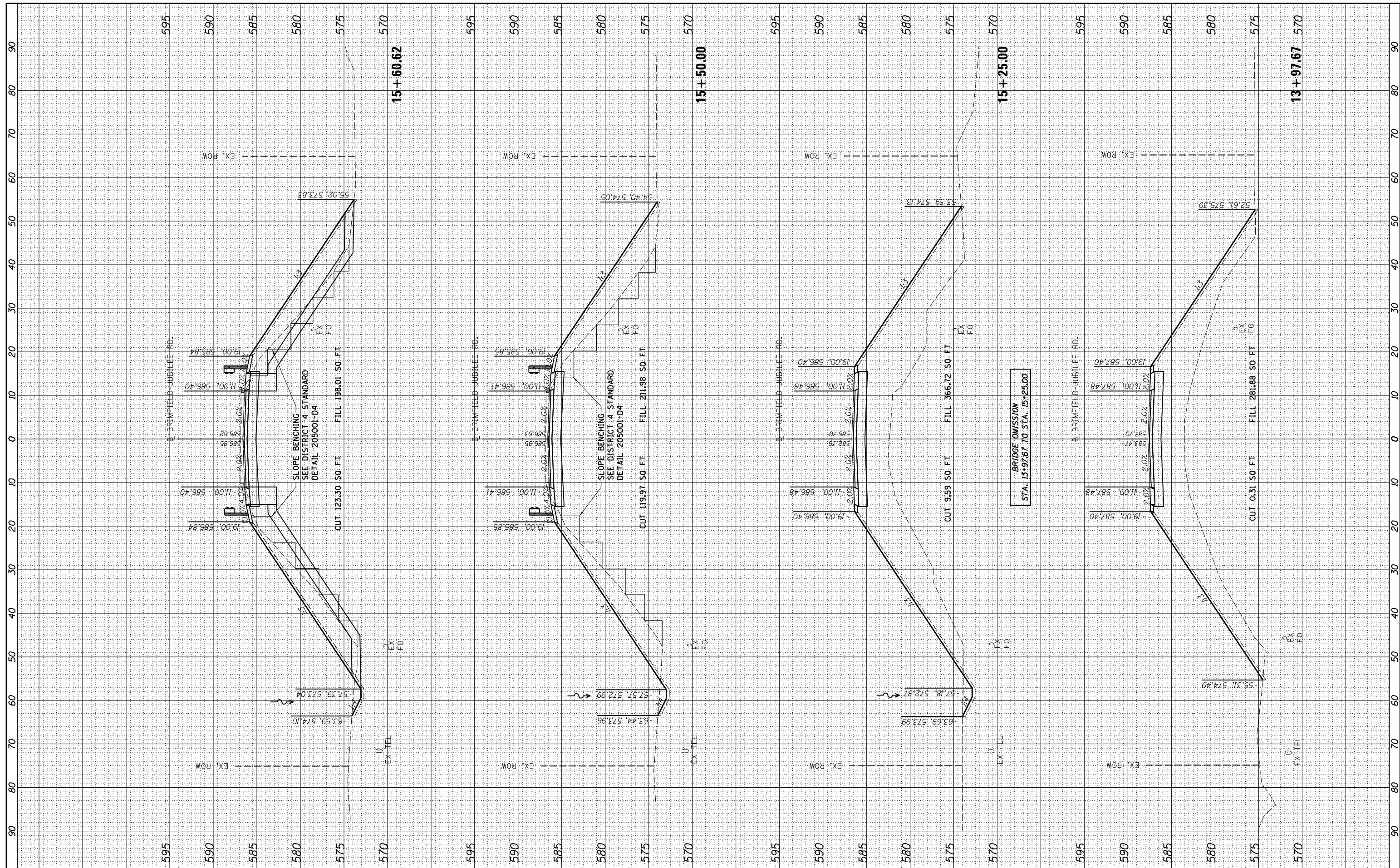
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	49
CONTRACT NO.			89745	
ILLINOIS FED. AID PROJECT				

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



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

LAYOUT	RDH	9/27/2019
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020



FILE NAME = I:\16jobs\16L0568\CAD\Road\Sheet\sh-xsec01.dgn

USER NAME = onder-00846

DESIGNED - RDH
DRAWN - RLA
CHECKED - BAB
DATE - 7/31/2020

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 13+97.67 TO STA. 15+60.62

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	50
CONTRACT NO.			89745	

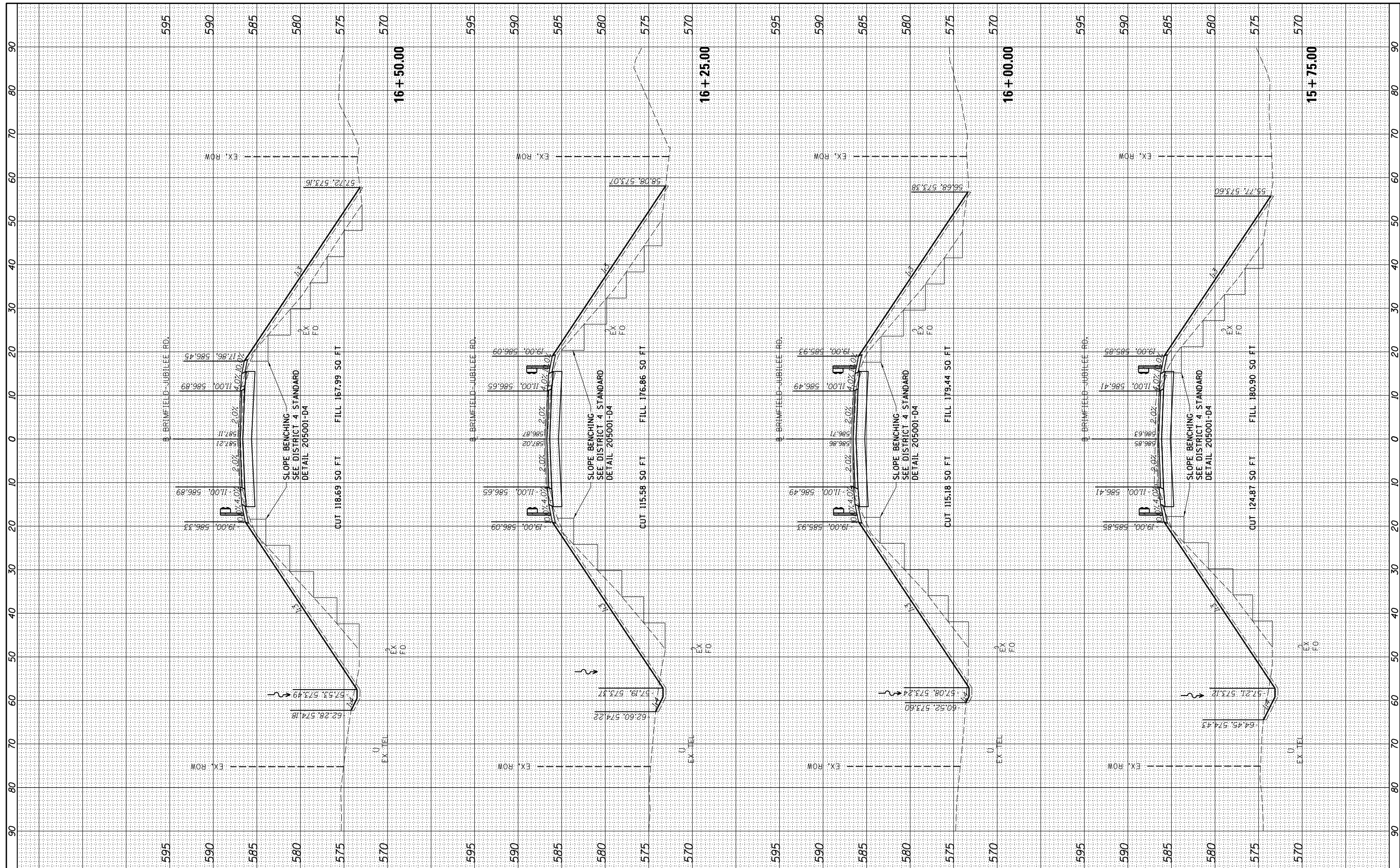
ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED BY	DATE



ORIGINAL SURVEY NO.	SURVEYED BY	DATE

LAYOUT DRAWN	RDH	9/27/2019
	RLA	2/28/2020
	BAB	2/28/2020



FILE NAME = I:\16jobs\16L0568\CAD\Road\Sheet\sh-xsec01.dgn
 USER NAME = onder-00846

DESIGNED - RDH	REVISOR -
DRAWN - RLA	REVISOR -
CHECKED - BAB	REVISOR -
DATE - 7/31/2020	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 15+75.00 TO STA. 16+50.00

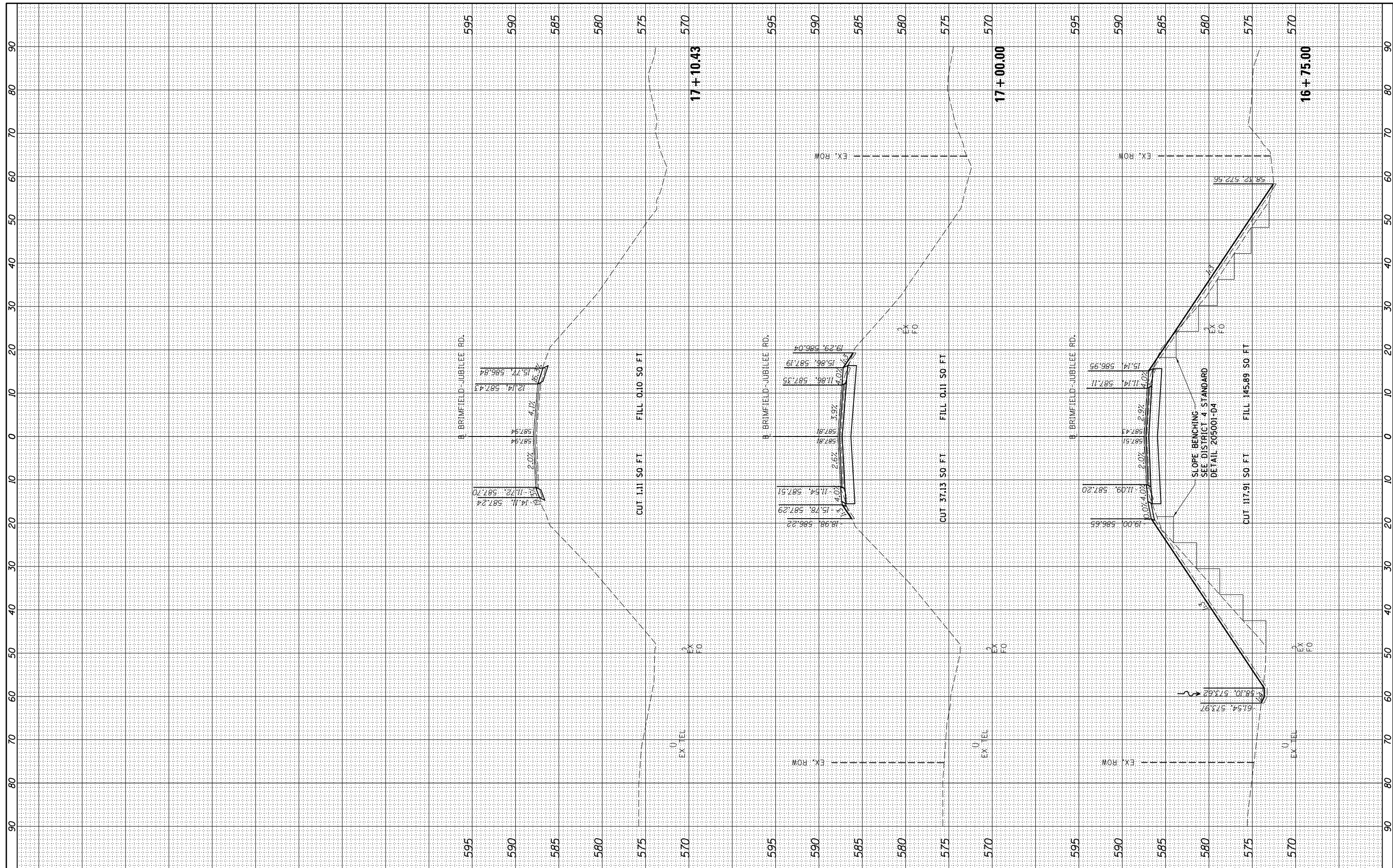
F.A.U. 29	SECTION 14-00113-04-BR	COUNTY PEORIA	TOTAL SHEETS 54	SHEET NO. 51
CONTRACT NO. 89745			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

LAYOUT DRAWN REVIEWED	RDH RLA BAB	9/27/2019 2/28/2020 2/28/2020
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FILE NAME = I:\16jobs\16L0568\CAD\Road\Sheet\sh-t-xsec01.dgn

USER NAME = onder-00846
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 7/28/2020

DESIGNED - RDH
 DRAWN - RLA
 CHECKED - BAB
 DATE - 7/31/2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 16+75.00 TO STA. 17+10.43

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	52
CONTRACT NO.			89745	

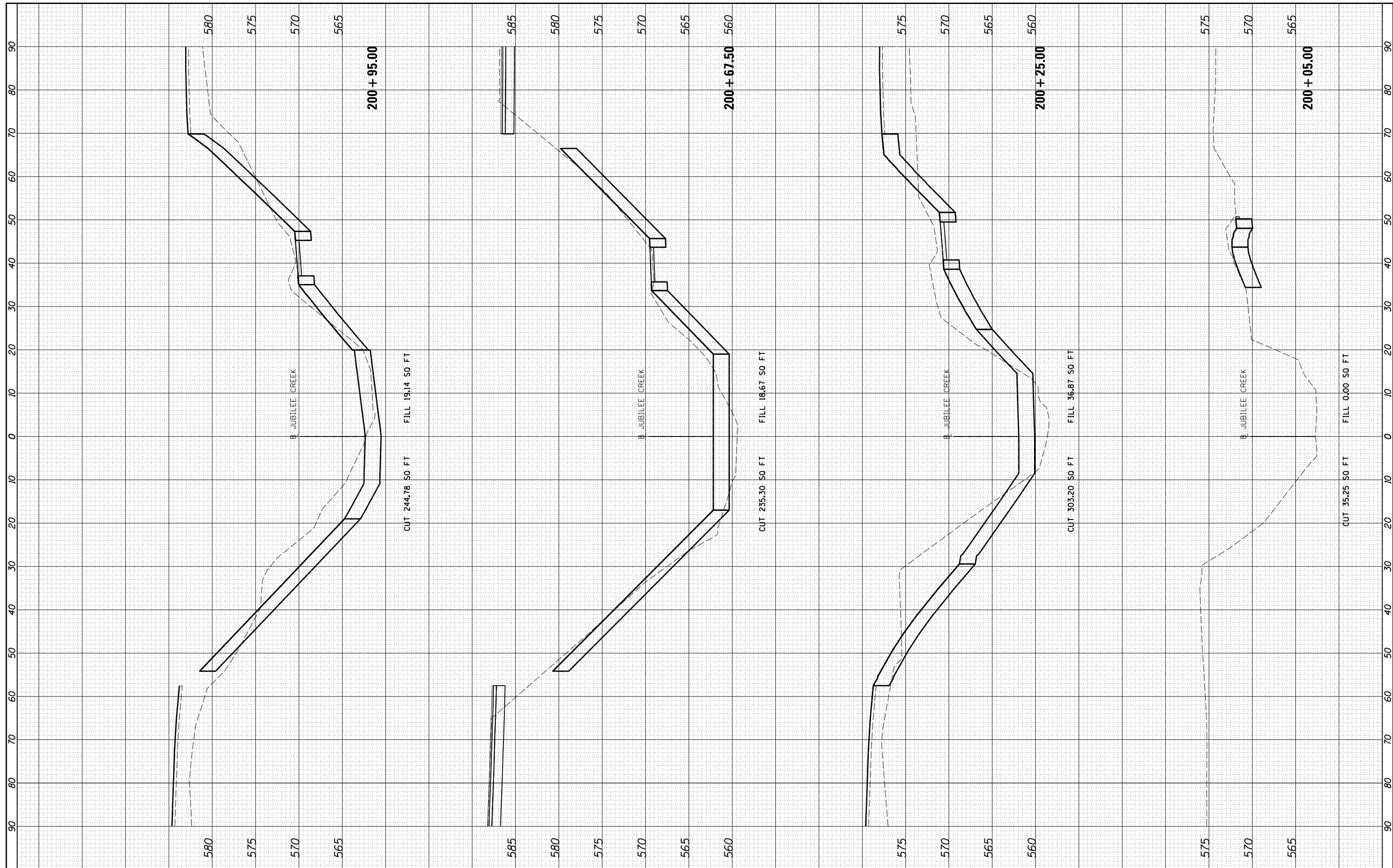
ILLINOIS FED. AID PROJECT

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



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

LAYOUT	RDH	9/27/2020
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020



FILE NAME = I:\16jobs\16L0568\CAD\Road\Sheet\sh-t-xsec-creek.dgn
 USER NAME = onder-00946

DESIGNED	-	RDH	REVISED	-
DRAWN	-	RLA	REVISED	-
CHECKED	-	BAB	REVISED	-
DATE	-	7/31/2020	REVISED	-

PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 7/28/2020

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
CREEK CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 200+05.00 TO STA. 200+95.00

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	53
CONTRACT NO.			89745	

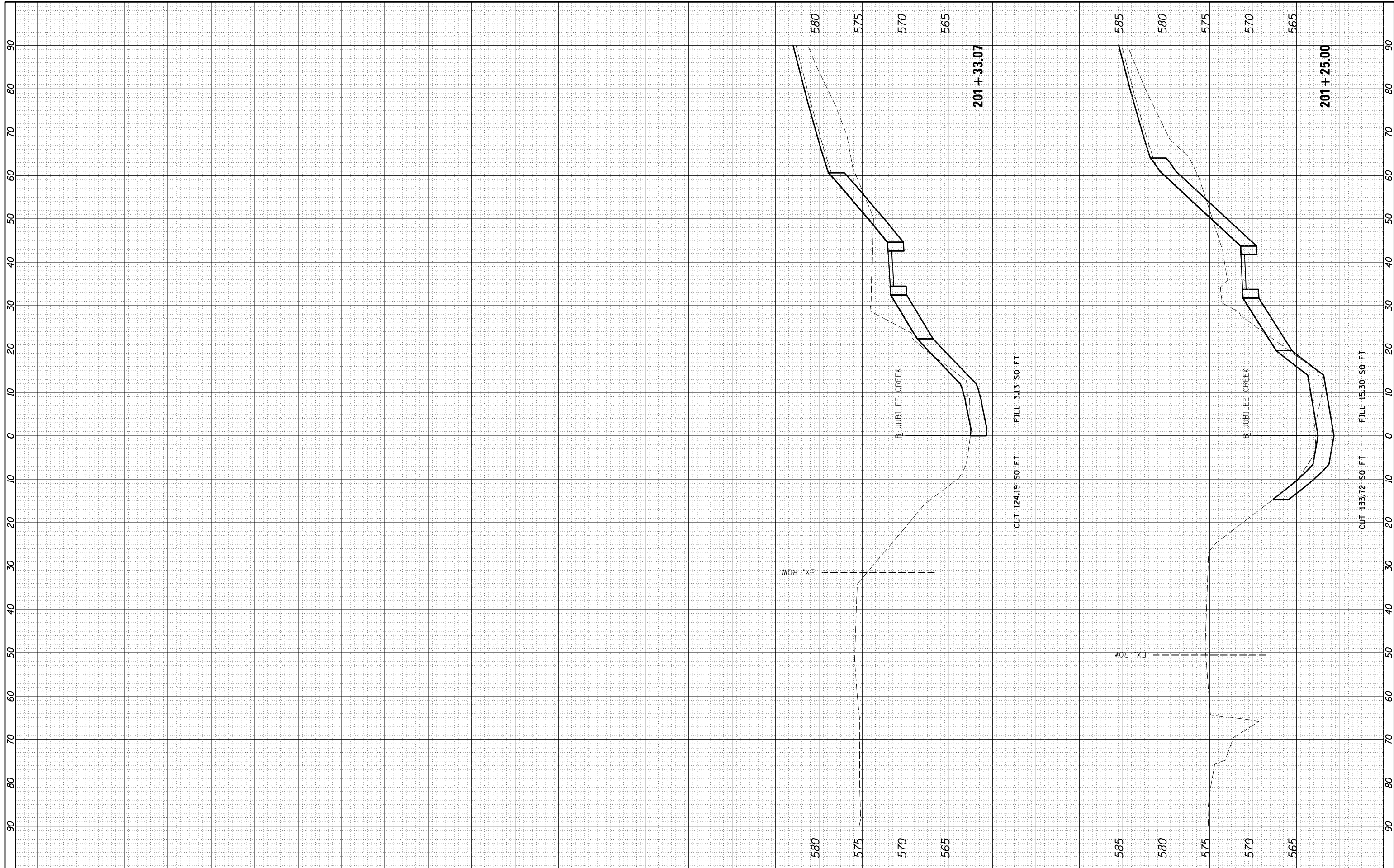
ILLINOIS FED. AID PROJECT

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



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

LAYOUT	RDH	9/27/2020
DRAWN	RLA	2/28/2020
REVIEWED	BAB	2/28/2020



FILE NAME =	USER NAME = onder-00846	DESIGNED -	RDH	REVISED -	
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Default		CHECKED -	BAB	REVISED -	
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		PLOT SCALE =	20.0000' / in.		
		PLOT DATE =	7/28/2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
CREEK CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 201+25.00 TO STA. 201+33.07

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29	14-00113-04-BR	PEORIA	54	54
CONTRACT NO.			89745	
ILLINOIS FED. AID PROJECT				