

07-30-2021 LETTING ITEM 065

FOR INDEX SEE SHEET NO. 2

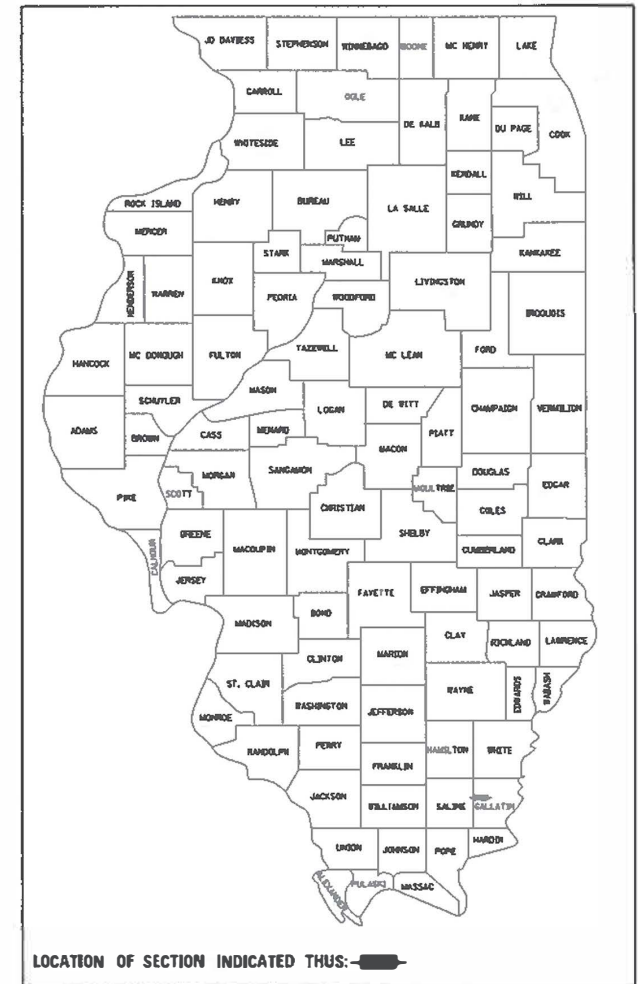
FUNCTIONAL CLASSIFICATION
COLLECTOR, NON URBAN
EXISTING ADT = 900
PROPOSED ADT = 1,000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED STRUCTURE REPLACEMENT PLANS

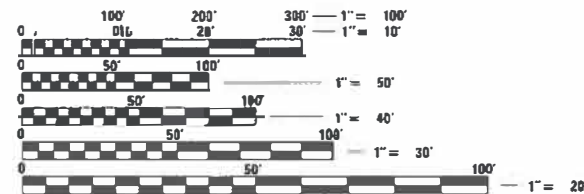
FAS ROUTE 893
(ELDORADO BLACKTOP ROAD)
SECTION 14-00080-00-BR
GALLATIN COUNTY
PROJECT: CR37(838)
BRIDGE REPLACEMENT
C-99-529-15

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	1
		ILLINOIS	CONTRACT NO. 99612	



GALLATIN COUNTY HIGHWAY DEPARTMENT
SUBMITTED 3/22 20 21
[Signature]
GALLATIN COUNTY ENGINEER

STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED 4/5 20 21
[Signature]
DISTRICT 9 ENGINEER LOCAL ROADS & STREETS
20 _____
DISTRICT 9 ENGINEER OF CONSTRUCTION
4/5 20 21
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

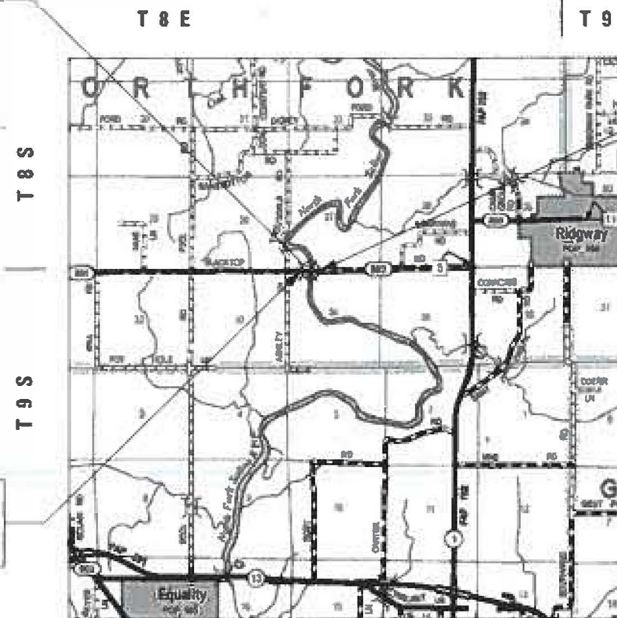
DISTRICT 9 - LOCAL ROADS
PROJECT MANAGER: GEORGE SHEPARD (618) 351-5266

CONTRACT NO. 99612

BRIDGE REPLACEMENT
STA. 194 + 85
EXIST. S.N. 030-3007

END IMPROVEMENT
ELDORADO BLACKTOP ROAD
STA. 202 + 50

BEGIN IMPROVEMENT
ELDORADO BLACKTOP ROAD
STA. 186 + 85



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 1565 FT. = 0.30 MILE
NET LENGTH = 1565 FT. = 0.30 MILE

JOHN C. MURILLO
062-052391
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

KNIGHT E/A, INC.
DATE: 3/22/2021
[Signature]
JOHN C. MURILLO
EXPIRES: 11-30-21
SHEET NO: 1-31 and 68-92

LICENSED STRUCTURAL ENGINEER
TRISHA E. BUTCHER
081-006306
STATE OF ILLINOIS

KNIGHT E/A, INC.
DATE: 3/22/2021
[Signature]
TRISHA E. BUTCHER
EXPIRES: 11-30-22
SHEET NO: 32-65

KNIGHT
Engineers & Architects
3200 Pleasant Run
Suite A
Springfield, IL 62711
Phone: (217) 546-7455

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
2. THESE PLANS HAVE BEEN PREPARED USING STANDARD SYMBOLS AS INDICATED IN THESE PLANS, AND THEY SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON STANDARD 000001 IF THERE IS A CONFLICT.
3. PRIOR TO STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR LOCATIONS OF BURIED UTILITY FACILITIES.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. THE CONTRACTOR SHALL PROTECT UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, BY CONTACTING THE UTILITY COMPANY DIRECTLY.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN SUBMITTING HIS BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCES CAUSED BY THE SAME.

6. THE INFORMATION AND DATA SHOWN OR INDICATED ON THESE IMPROVEMENT PLANS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AND UTILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES AND UTILITIES OR BY OTHERS, FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE TO THE RESIDENT ENGINEER SO THAT UTILITIES CAN BE GIVEN NOTICE. NO GUARANTEE IS IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, VERIFYING IF ANY CONFLICTS EXIST WITH THE PROPOSED WORK AND UNDERGROUND FACILITIES AND UTILITIES SHOWN OR INDICATED ON THE IMPROVEMENT PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES AND UTILITIES DURING CONSTRUCTION, AND THE SAFETY AND PROTECTION OF ALL SUCH UNDERGROUND FACILITIES AND UTILITIES AND REPAIR ANY DAMAGE THERETO RESULTING FROM THE WORK AT HIS EXPENSE.
7. ALL UTILITIES TO BE RELOCATED BY OTHERS.
8. ALL TYPE III BARRICADES SHALL BE HAVE TWO (2) STEADY BURN LIGHTS AND A MINIMUM OF FOUR (4) SANDBAGS TO STABILIZE THE BARRICADE.
9. ALL AREAS DISTURBED SHALL BE SEEDED WITH CLASS 2, CLASS 4, OR CLASS 5B SEEDING, AS SHOWN ON THE SEEDING PLAN. FINAL SEEDING SHALL BE PERFORMED WITHIN 10 CALENDAR DAYS UPON COMPLETION OF FINAL GRADING WITHIN EACH QUADRANT OF THE PROJECT CORRIDOR.
10. PHOSPHOS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT. A PHOSPHORUS FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL ZERO).
11. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATE BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE A COPY OF THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
12. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS/HER OPERATIONS. THE WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL, PRIVATE, AND FIELD ENTRANCES AT ALL TIMES DURING CONSTRUCTION.
14. GALLATIN COUNTY HAS APPLIED FOR A ILR10 PERMIT (STORM WATER POLLUTION PREVENTION PLAN). THE CONTRACTOR WILL BE REQUIRED TO FOLLOW ALL PROVISIONS OF THE PERMIT. THE COST OF ALL MATERIALS AND LABOR TO COMPLY THE PROVISIONS OF THE PERMIT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICES ON THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

COMMITMENTS

NONE

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
3-7	SUMMARY OF QUANTITIES
8	TYPICAL SECTIONS
9-10	SCHEDULE OF QUANTITIES
11	ALIGNMENT PLAN
12-14	REMOVAL PLANS
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19	TRAFFIC CONTROL DETAILS
20-22	EROSION CONTROL PLANS
23-26	DITCH PROFILES
27-28	PAVEMENT MARKING PLANS
29-31	SEEDING PLANS
32-65	STRUCTURE PLANS
66-92	CROSS SECTIONS

HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT ANF TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

HMA MIXTURE TABLE

USE	MIXTURE TYPE	AIR VOIDS @ N DES	QMP
HOT-MIX ASPHALT PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/4"	4% @ 50 GYR.	QA/QC
	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N50, 1 1/4"	4% @ 50 GYR.	QA/QC
PAVEMENT CONNECTOR (HMA) BRIDGE APPROACH SLAB	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/4"	4% @ 50 GYR.	QA/QC
	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N50, 1 1/4"	4% @ 50 GYR.	QA/QC
	HOT-MIX ASPHALT SURFACE COURSE, 8 1/2"	4% @ 50 GYR.	QA/QC

NOTE:
THE UNIT WIEGHT USED TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LBS/SQ YD/IN.

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	DRAWN - CJF	REVISED -
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PLOT DATE = 4/18/2021	DATE - APRIL 19, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS
COMMITMENTS, AND GENERAL NOTES**

SCALE: AS SHOWN SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	2
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

CODE NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE SN 030-3007	SAFETY
				0005	0013	0021
				20% STATE 80% FED	20% STATE 80% FED	20% STATE 80% FED
20101000	TEMPORARY FENCE	FOOT	726	726		
20200100	EARTH EXCAVATION	CU YD	1455	1455		
20300100	CHANNEL EXCAVATION	CU YD	1000	1000		
20400800	FURNISHED EXCAVATION	CU YD	7640	7640		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	11768	11768		
* 25000210	SEEDING, CLASS 2A	ACRE	2.35	2.35		
* 25000310	SEEDING, CLASS 4	ACRE	0.05	0.05		
* 25000324	SEEDING, CLASS 5B	ACRE	0.04	0.04		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	220	220		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	220	220		
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	11768	11768		
28000315	AGGREGATE DITCH CHECKS	TON	72	72		
28000400	PERIMETER EROSION BARRIER	FOOT	1055	1055		
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	11768	11768		

* SPECIALITY ITEM

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	PLOT SCALE = 1:2	CHECKED - JCM	REVISED -					893	14-00080-00-BR	GALLATIN	92	3
PLOT DATE = 5/19/2021	DATE - MAY 17, 2021	REVISED -			SCALE: AS SHOWN SHEET 1 OF 5 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 99612				

CODE NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY		BRIDGE	SAFETY	
				0005	0013	SN	0021	
				20% STATE 80% FED	20% STATE 80% FED	030-3007	20% STATE 80% FED	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	410.0		410.0			
50300260	BRIDGE DECK GROOVING	SQ YD	1188		1188			
50300300	PROTECTIVE COAT	SQ YD	1602		1602			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1			
50500505	STUD SHEAR CONNECTORS	EACH	3978		3978			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	121560		121560			
50800530	MECHANICAL SPLICERS	EACH	72		72			
51202150	FURNISHING STEEL PILES HP18X157	FOOT	585		585			
51202305	DRIVING PILES	FOOT	565		565			
51204150	TEST PILE STEEL HP18X157	EACH	2		2			
51500100	NAME PLATES	EACH	1		1			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	64		64			
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12			
52100520	ANCHOR BOLTS, 1"	EACH	48		48			

* SPECIALITY ITEM

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CODE NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE SN 030-3007	SAFETY
				0005	0013	0021
				20% STATE 80% FED	20% STATE 80% FED	20% STATE 80% FED
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	110		110	
59000200	EPOXY CRACK INJECTION	FOOT	16		16	
* 63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	1950			1950
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4			4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4			4
63200310	GUARDRAIL REMOVAL	FOOT	2400	2400		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	9	9		
67100100	MOBILIZATION	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	600	600		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4			4
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2662			2662
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	860			860
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12			12
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	4			4

* SPECIALITY ITEM

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PLOT DATE = 5/19/2021	CHECKED - JCM	REVISED -
	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: AS SHOWN SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

CODE NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE SN 030-3007	SAFETY
				0005	0013	0021
				20% STATE 80% FED	20% STATE 80% FED	20% STATE 80% FED
Z0003617	REMOVAL OF EXISTING SUB-STRUCTURES	EACH	2		2	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	25		25	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	5		5	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0018010	DRAINAGE SCUPPERS, DS-33	EACH	12		12	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	120		120	
X0325748	ACRYLIC COATING	SQ YD	164		164	
X0325749	FIBER WRAP	SQ FT	668		668	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	851	851		
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	213		213	
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	1860		1860	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		

* SPECIALITY ITEM

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DRAWN - CEO
CHECKED - JCM
DATE - MAY 17, 2021

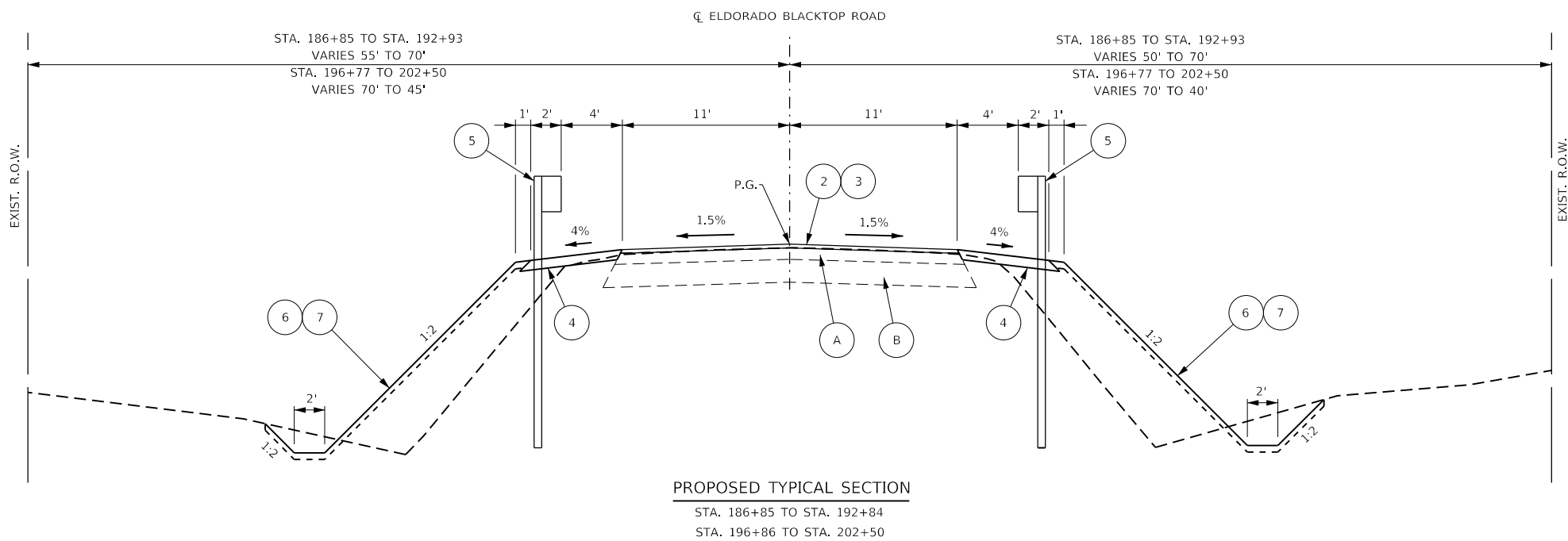
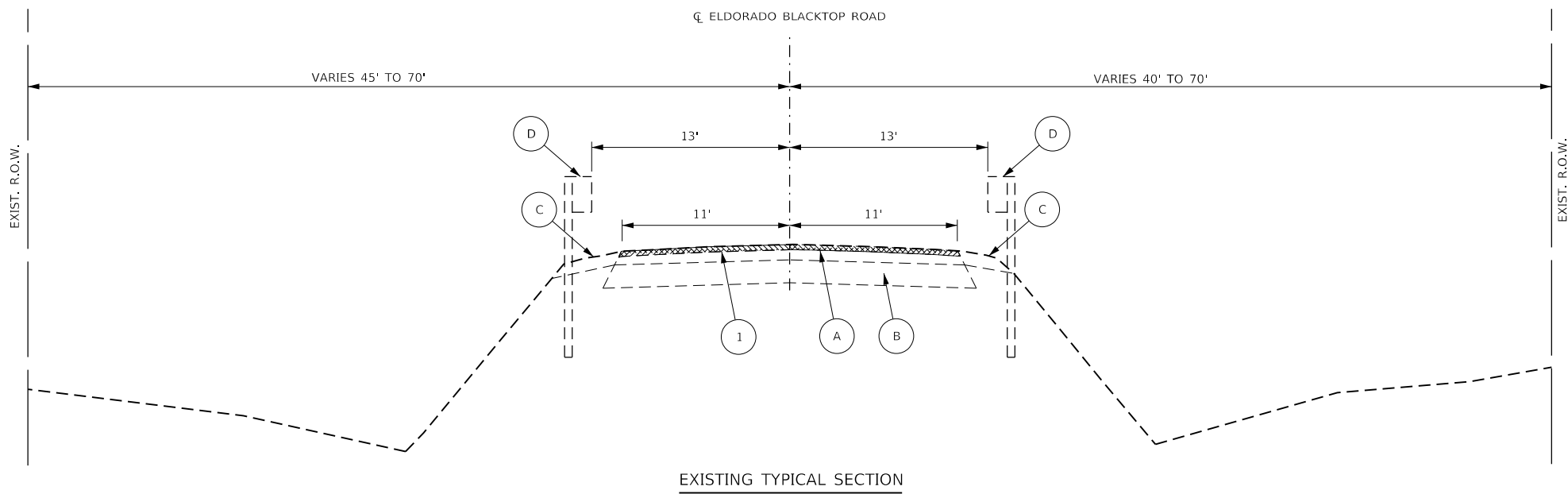
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: AS SHOWN SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	7
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



LEGEND

- (A) EXIST. HOT MIX ASPHALT (SEE NOTES)
- (B) EXIST. BASE COURSE (SEE NOTES)
- (C) EXIST. AGGREGATE SHOULDER
- (D) EXIST. GUARDRAIL
- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/4"
- (2) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1-1/4"
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1-1/4"
- (4) AGGREGATE SHOULDERS, TYPE B, 10"
- (5) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' FOOT POSTS
- (6) TOPSOIL FURNISH AND PLACE, 4"
- (7) SEEDING, CLASS 2 (EXCEPT WHERE NOTED ON SEEDING PLANS)

NOTE:

1. THE EXISTING PAVEMENT CONSIST OF:
 - 4-1/2" OF BITUMINOUS MATERIAL
 - BITUMINOUS SURFACE TREATMENT CLASS A3
 - 6-1/2" OF SOIL CEMENT BASE COURSE
 - 4" OF SUBBASE GRANULAR MATERIAL, TYPE A
2. THE EXISTING PAVEMENT INFORMATION WAS OBTAINED FROM RECORD DRAWINGS. THE ACTUAL PAVEMENT MATERIAL AND THICKNESS MAY VARY WITHIN THE PROJECT CORRIDOR.

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USER NAME = jmurillo	DESIGNED - JCF	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - JCF	REVISED -
PLOT DATE = 4/18/2021	CHECKED - JCM	REVISED -
	DATE - APRIL 19, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION		
SCALE: AS SHOWN	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	8
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

LOCATION Station to Station		Length	Earth Excavation (Cubic Yards)	Earth Excavation Adjusted for Shrinkage (15%) (Cubic Yards)	Embankment (Cubic Yards)	Earthwork Balance (+) Wastage (-) Shortage (Cubic Yards)	Topsoil Removal (4" Estimated Thickness) (Cubic Yards)
186+85	187+00	15	5.4	4.6	11.4	-6.8	9.2
187+00	187+50	50	16.4	13.9	44.9	-31.0	30.9
187+50	188+00	50	13.6	11.6	69.7	-58.1	33.5
188+00	188+50	50	13.6	11.6	117.7	-106.1	38.8
188+50	189+00	50	17	14.5	209.8	-195.4	44.2
189+00	189+50	50	18.5	15.7	318.3	-302.6	48.4
189+50	190+00	50	19.8	16.8	387.1	-370.3	52.3
190+00	190+50	50	24.6	20.9	440.2	-419.3	56.7
190+50	191+00	50	15.7	13.3	509.6	-496.3	58.5
191+00	191+50	50	7.8	6.6	557.3	-550.7	59.8
191+50	192+00	50	10.5	8.9	561.2	-552.3	62.3
192+00	192+50	50	8.4	7.1	547	-539.9	64.2
192+50	193+00	50	6.2	5.3	567.7	-562.4	66.6
193+00	193+21	21	3.1	2.6	271.7	-269.1	28.9
196+49	196+50	1	1.5	1.3	11.5	-10.2	1.4
196+50	197+00	50	49.2	41.8	492	-450.2	63
197+00	197+50	50	15	12.8	374.9	-362.2	52.5
197+50	198+00	50	6.1	5.2	338.5	-333.3	47.9
198+00	198+50	50	7.2	6.1	334.5	-328.4	46.6
198+50	199+00	50	5.9	5.0	323.4	-318.4	45
199+00	199+50	50	9.7	8.2	316.5	-308.3	43.9
199+50	200+00	50	13.7	11.6	297.5	-285.9	42.9
200+00	200+50	50	13.6	11.6	244.9	-233.3	42.6
200+50	201+00	50	8.9	7.6	188.4	-180.8	39.4
201+00	201+50	50	5.4	4.6	154.9	-150.3	35.2
201+50	202+00	50	6.1	5.2	136.6	-131.4	33.5
202+00	202+50	50	4.4	3.7	90.5	-86.8	28.5
TOTAL ==>			327.3	278.2	7917.7	-7639.5	1176.7

(SEE NOTE 1)

NOTES:

1. TOPSOIL REMOVAL SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR "EARTH EXCAVATION".

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	DRAWN - CJF	REVISED -
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PLOT DATE = 5/17/2021	DATE - MAY 17, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: AS SHOWN SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	9
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

AGGREGATE DITCH CHECKS			
STATION	OFFSET	LT/RT	QUANTITY (FOOT)
187+50	36'	LT	5.4
187+50	36'	RT	5.4
188+50	46'	LT	1.2
189+00	47'	RT	1.2
190+50	58'	RT	5.4
192+50	64'	LT	1.2
192+50	64'	RT	1.2
193+00	66'	RT	1.2
193+20	66'	LT	1.2
196+75	57'	LT	14.4
196+75	56'	RT	14.4
198+50	47'	RT	1.2
200+50	43'	LT	14.4
200+50	43'	RT	1.2
202+50	35'	LT	1.2
202+50	34'	RT	1.2
TOTAL QUANTITY			72

PERIMETER EROSION BARRIER			
FROM STA.	TO STA.	OFFSET	QUANTITY (FOOT)
188+00	191+50	LT	365
188+00	193+00	RT	520
200+00	201+50	RT	170
TOTAL QUANTITY			1055

AGGREGATE SUBGRADE IMPROVEMENT		
FROM STA.	TO STA.	QUANTITY (CU YD)
192+84	192+94	11.5
196+76	196+86	11.5
TOTAL QUANTITY		23

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB		
FROM STA.	TO STA.	QUANTITY (SY YD)
192+84	192+94	34.4
196+76	196+86	34.4
TOTAL QUANTITY		69

PAVEMENT REMOVAL		
FROM STA.	TO STA.	QUANTITY (SY YD)
192+84	193+34	122.2
196+37	196+86	119.8
TOTAL QUANTITY		242

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/4"		
FROM STA.	TO STA.	QUANTITY (SQ YD)
187+10	191+40	1051
198+40	202+50	1002
TOTAL QUANTITY		2053

STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS			
FROM STA.	TO STA.	OFFSET	QUANTITY (FOOT)
187+22	193+09	LT	500
187+22	193+09	RT	500
196+61	202+23	LT	475
196+61	202+23	RT	475
TOTAL QUANTITY			1950

TRAFFIC BARRIER TERMINAL, TYPE 6		
STATION	OFFSET	QUANTITY (EACH)
193+09	LT	1
193+09	RT	1
196+61	LT	1
196+61	RT	1
TOTAL QUANTITY		4

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	OFFSET	QUANTITY (EACH)
187+22	LT	1
187+22	RT	1
202+23	LT	1
202+23	RT	1
TOTAL QUANTITY		4

GUARDRAIL REMOVAL			
FROM STA.	TO STA.	OFFSET	QUANTITY (FOOT)
187+20	193+34	LT	614
187+20	193+34	RT	614
196+37	202+22	LT	585
196+37	202+24	RT	587
TOTAL QUANTITY			2400

TERMINAL MARKER - DIRECT APPLIED		
STATION	OFFSET	QUANTITY (EACH)
187+22	LT	1
187+22	RT	1
202+23	LT	1
202+23	RT	1
TOTAL QUANTITY		4

GUARDRAIL REFLECTORS, TYPE A			
FROM STA.	TO STA.	OFFSET	QUANTITY (EACH)
187+22	193+09	LT	1
187+22	193+09	RT	5
196+61	202+23	LT	5
196+61	202+23	RT	1
TOTAL QUANTITY			12

BARRIER WALL REFLECTORS, TYPE B			
FROM STA.	TO STA.	OFFSET	QUANTITY (EACH)
193+09	196+61	LT	2
193+09	196+61	RT	2
TOTAL QUANTITY			4

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH		
FROM STA.	TO STA.	QUANTITY (SQ YD)
186+85	187+10	61.1
191+40	192+84	352.0
196+86	198+40	376.4
202+25	202+50	61.1
TOTAL QUANTITY		851

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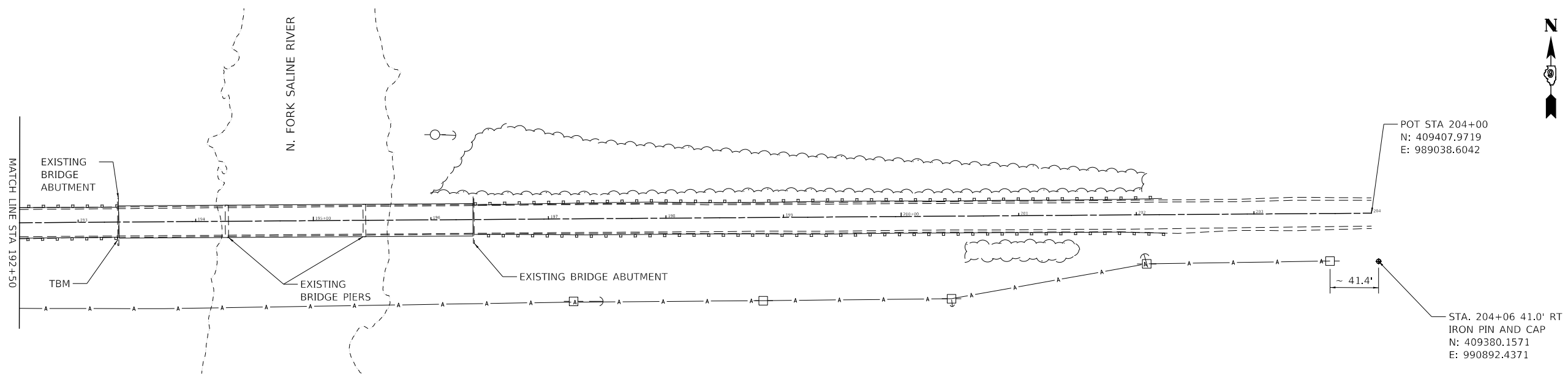
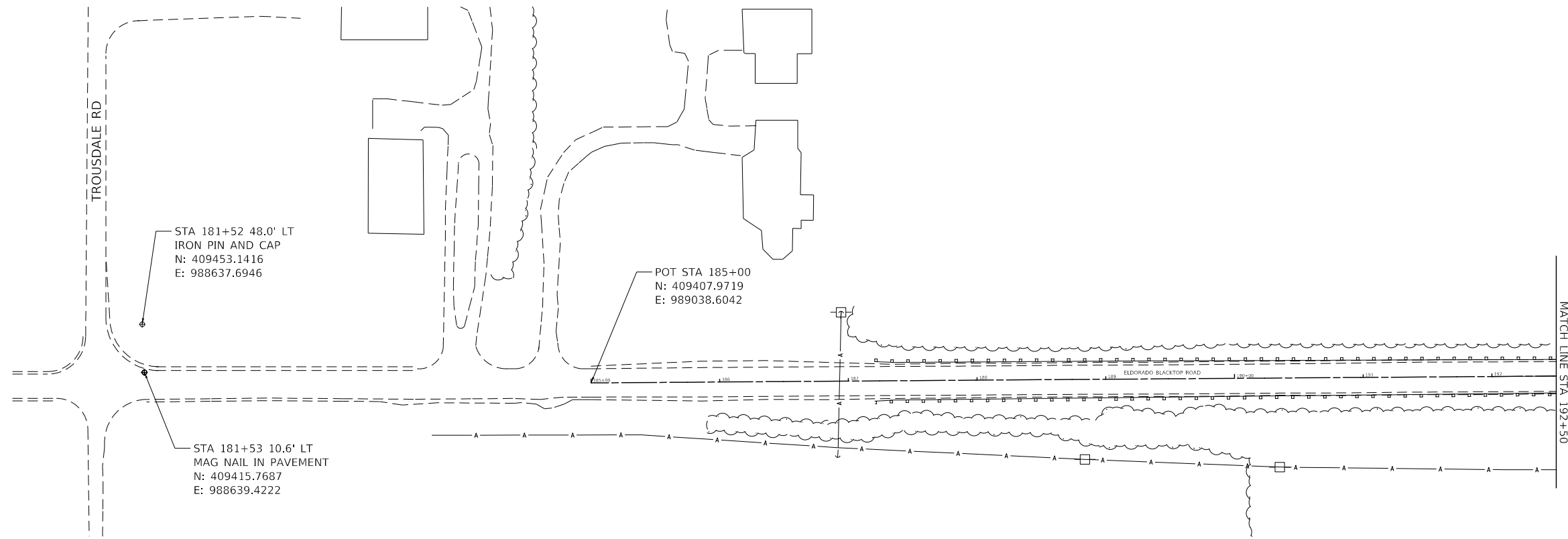


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	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE: AS SHOWN	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	



TBM:
 'CHISELED SQUARE' AT
 STA 193+34 14.3' RT
 NORTHING = 409399.2
 EASTING = 989820.2
 ELEVATION = 367.07

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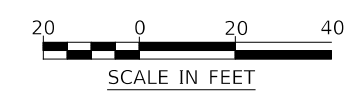
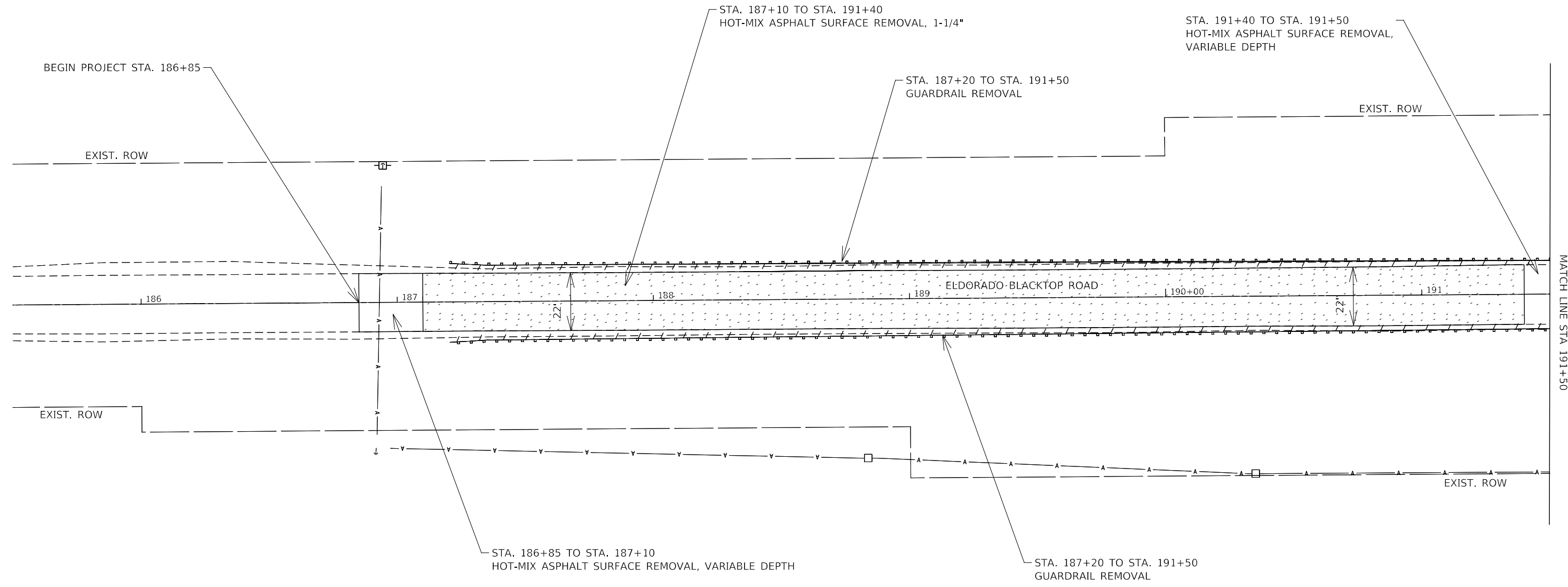
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND BENCHMARK

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 181+52 TO STA. 204+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	11
CONTRACT NO. 99612				
		ILLINOIS	FED. AID PROJECT	



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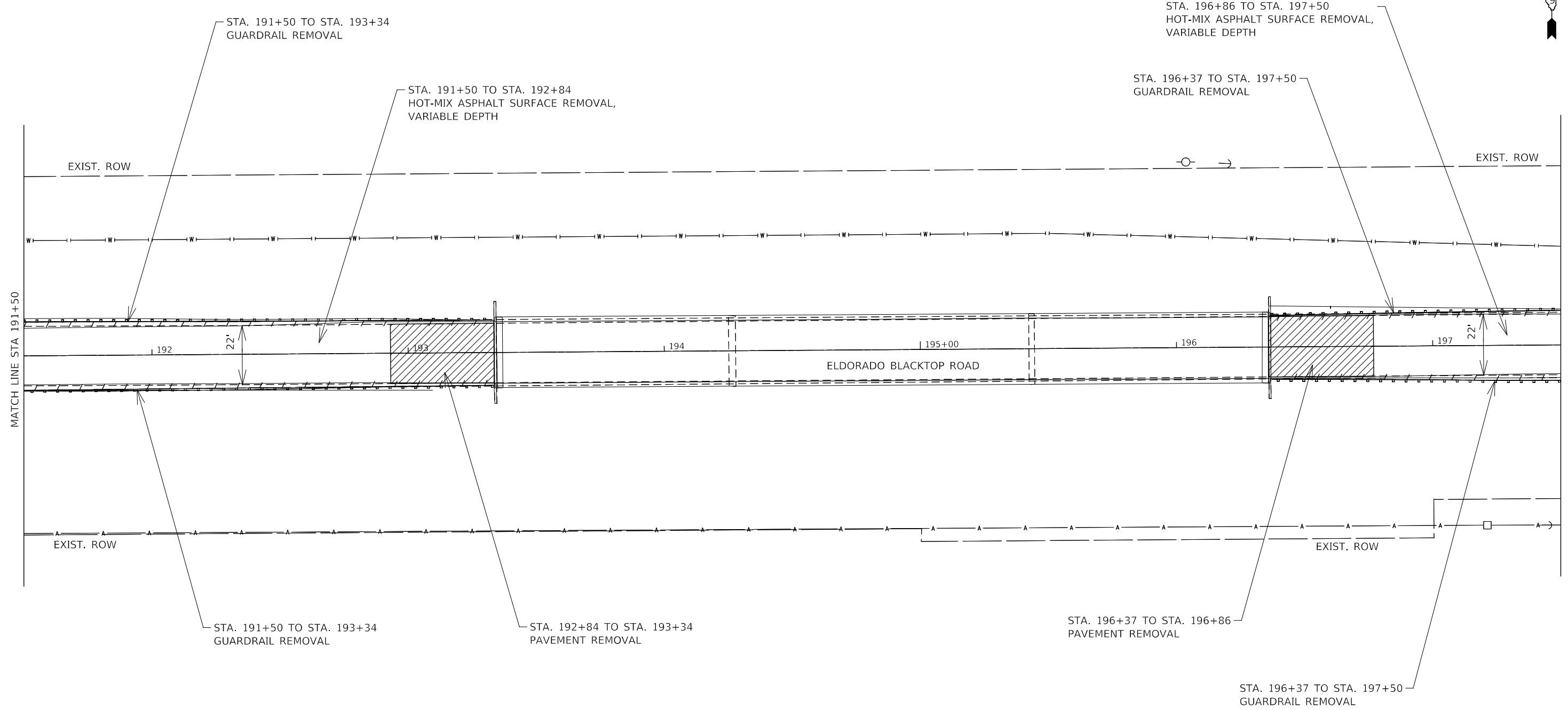


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
 SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. 186+85 TO STA. 191+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	12
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



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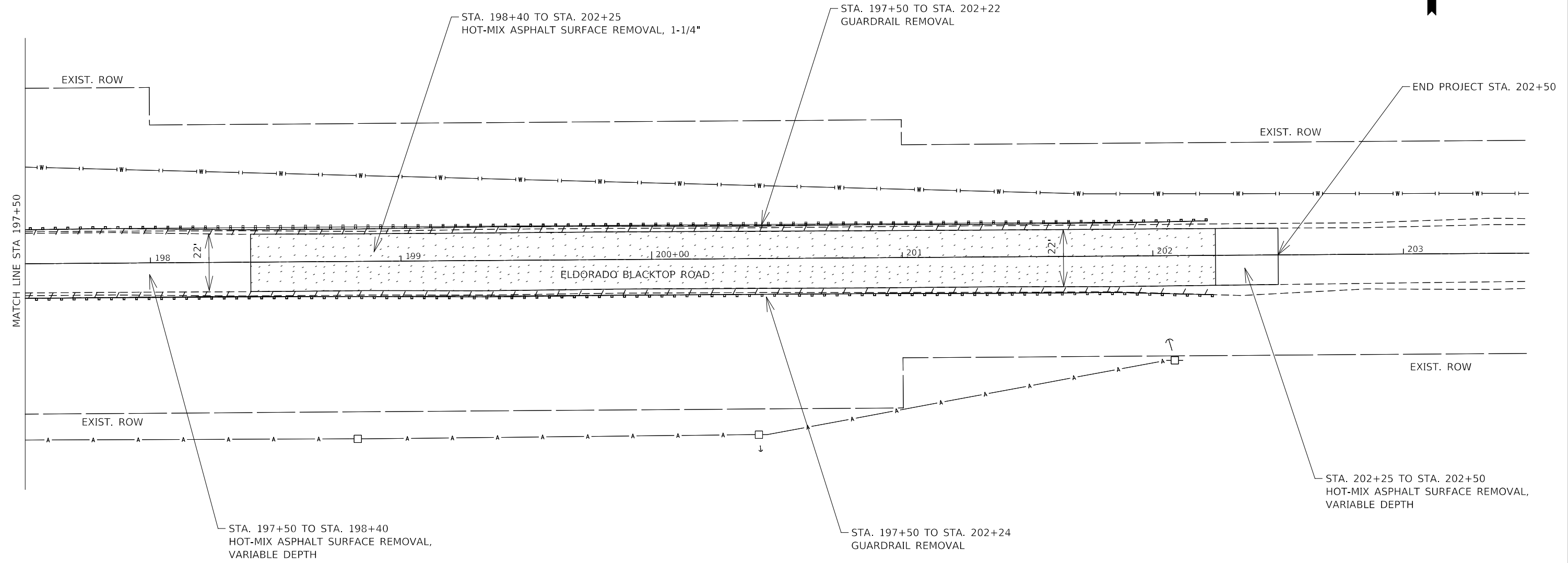


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PLOT DATE = 3/25/2021	DATE - MARCH 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
 SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. 191+50 TO STA. 197+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	13
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/25/2021	DATE - MARCH 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

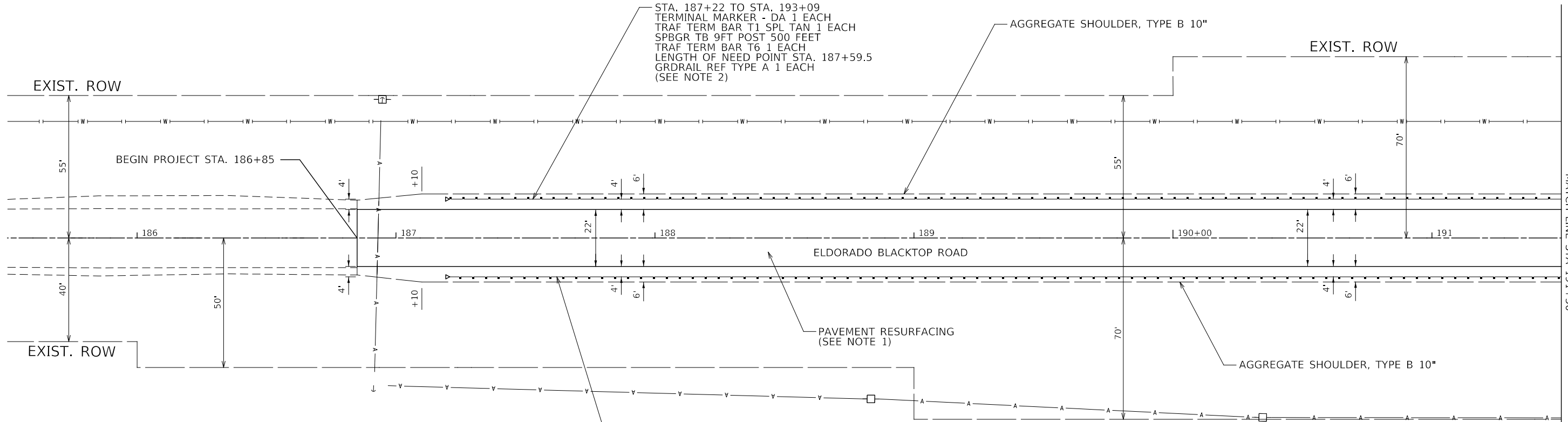
REMOVAL PLAN	
SCALE: AS SHOWN	SHEET 3 OF 3 SHEETS STA. 197+50 TO STA. 202+50

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 14
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

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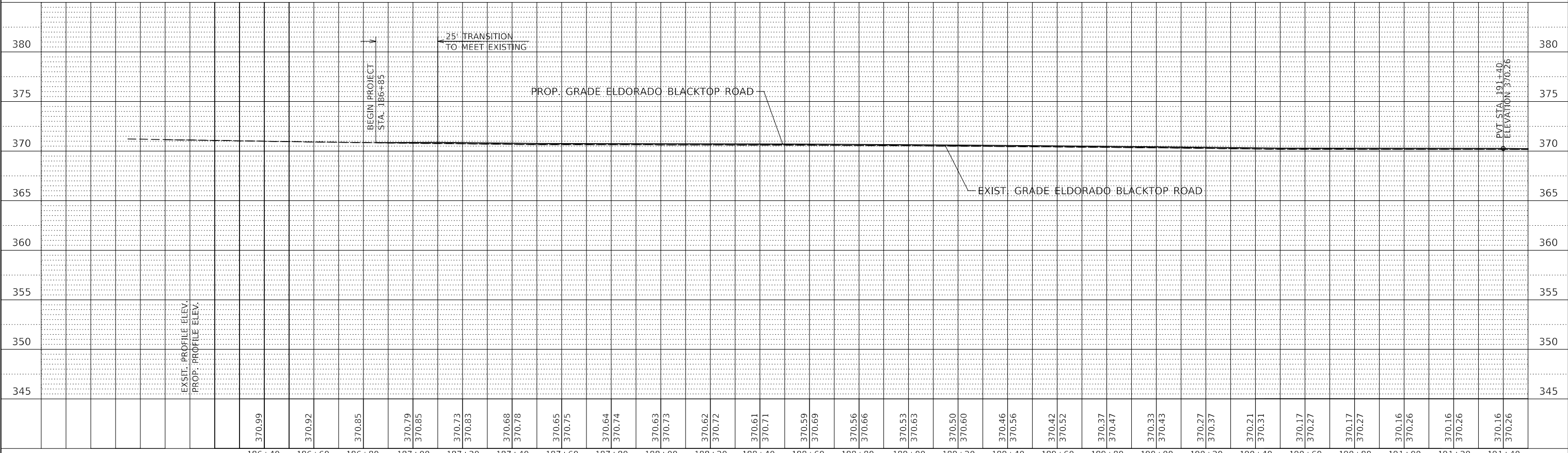
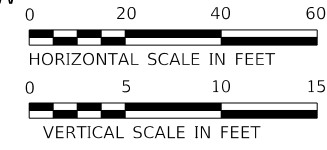
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- NOTES:
- SEE PROPOSED TYPICAL SECTION FOR RESURFACING INFORMATION.
 - BARRIER AND GUARDRAIL REFLECTORS SHALL BE SPACED IN ACCORDANCE WITH HIGHWAY STANDARD 782006.

STA. 187+22 TO STA. 193+09
 TERMINAL MARKER - DA 1 EACH
 TRAF TERM BAR T1 SPL TAN 1 EACH
 SPBGR TB 9FT POST 500 FEET
 TRAF TERM BAR T6 1 EACH
 LENGTH OF NEED POINT STA. 187+59.5
 GRDRAIL REF TYPE A 5 EACH
 (SEE NOTE 2)



USER NAME = dmeyers	DESIGNED - JCF	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

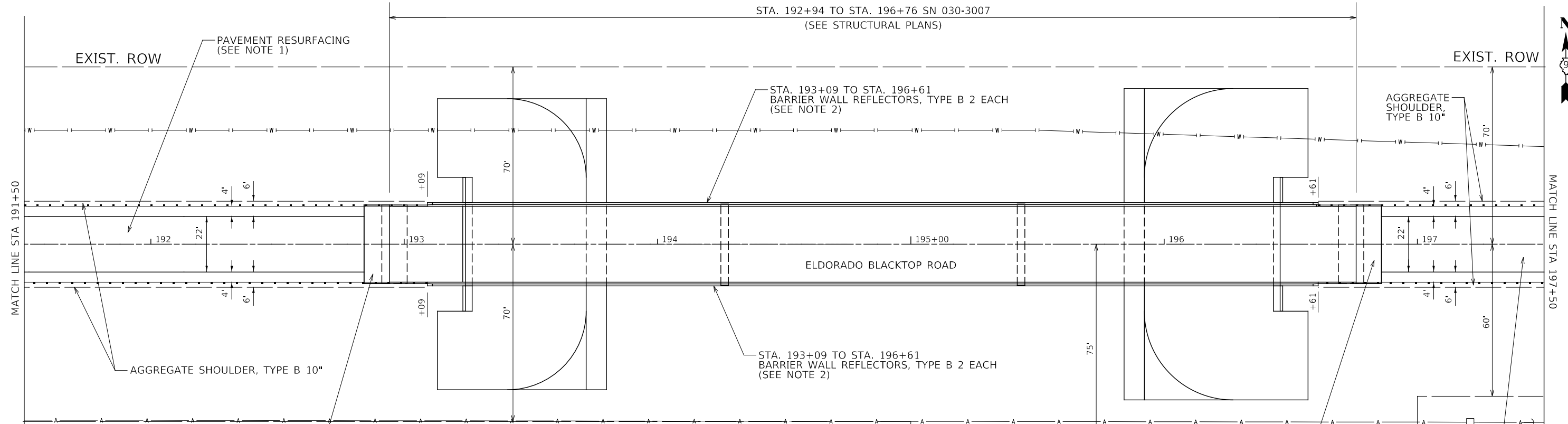
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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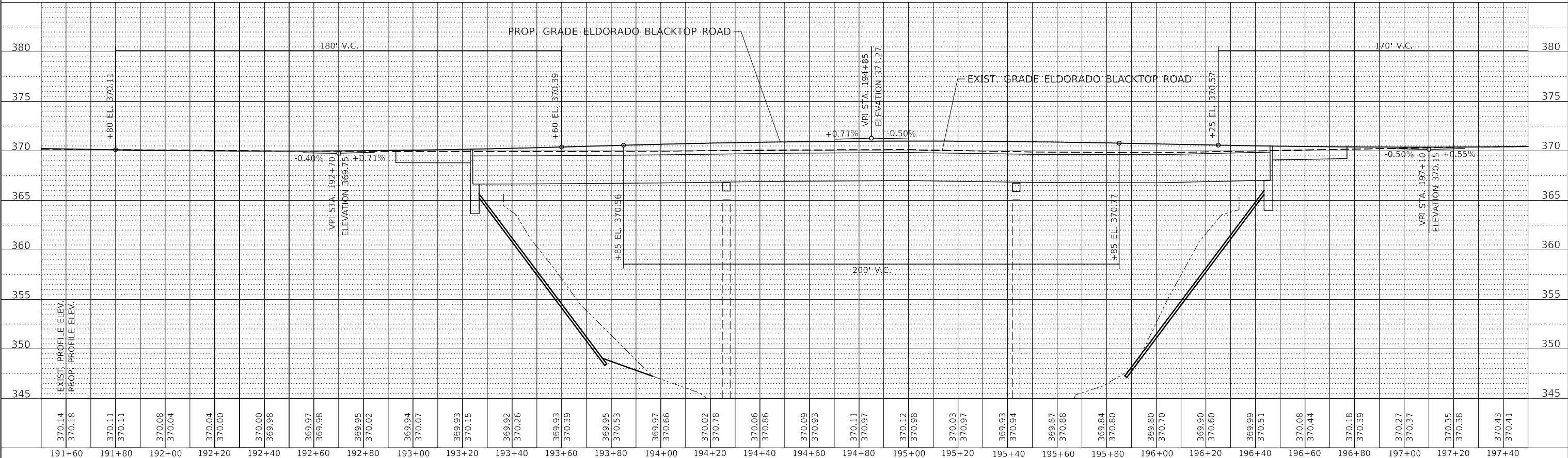
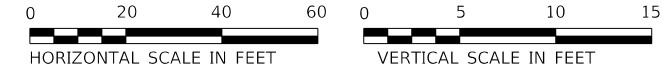
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STA. 192+84 TO STA. 192+94
PVT CON HMA BR APP SL
(SEE NOTES 3 AND 4)

- NOTES:
- SEE PROPOSED TYPICAL SECTION FOR RESURFACING INFORMATION.
 - BARRIER AND GUARDRAIL REFLECTORS SHALL BE SPACED IN ACCORDANCE WITH HIGHWAY STANDARD 782006.
 - HMA PAVEMENT CONNECTOR SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARD 420406. AGGREGATE SUBGRADE IMPROVEMENT FOR HMA PAVEMENT CONNECTOR SHALL BE PAID FOR SEPARATELY.
 - THE HMA PAVEMENT CONNECTOR SHALL CONSIST OF HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 AND HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50. THE LIFT THICKNESS SHALL BE AS SPECIFIED IN SECTION 407 OF THE STANDARD SPECIFICATIONS.

STA. 196+76 TO STA. 196+86
PVT CON HMA BR APP SL
(SEE NOTE 3)



USER NAME = dmeyers	DESIGNED - JCF	REVISED -
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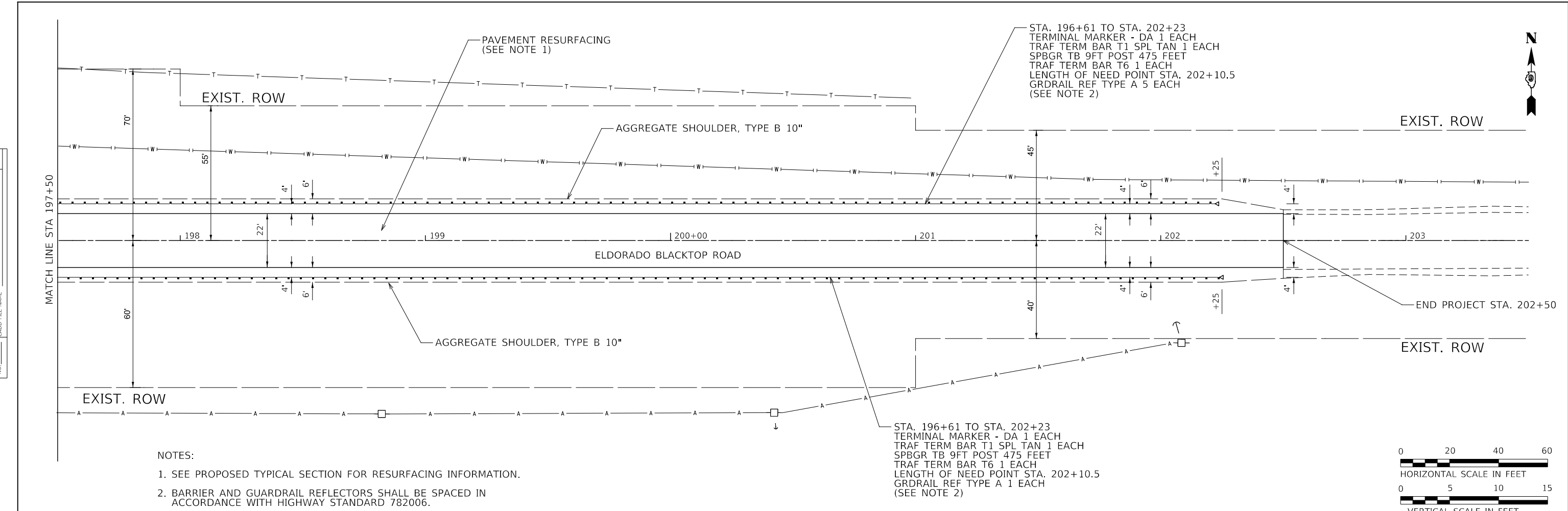
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
SCALE: SHEET 2 OF 3 SHEETS STA. 191+50 TO STA. 197+50

F.A. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 16
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

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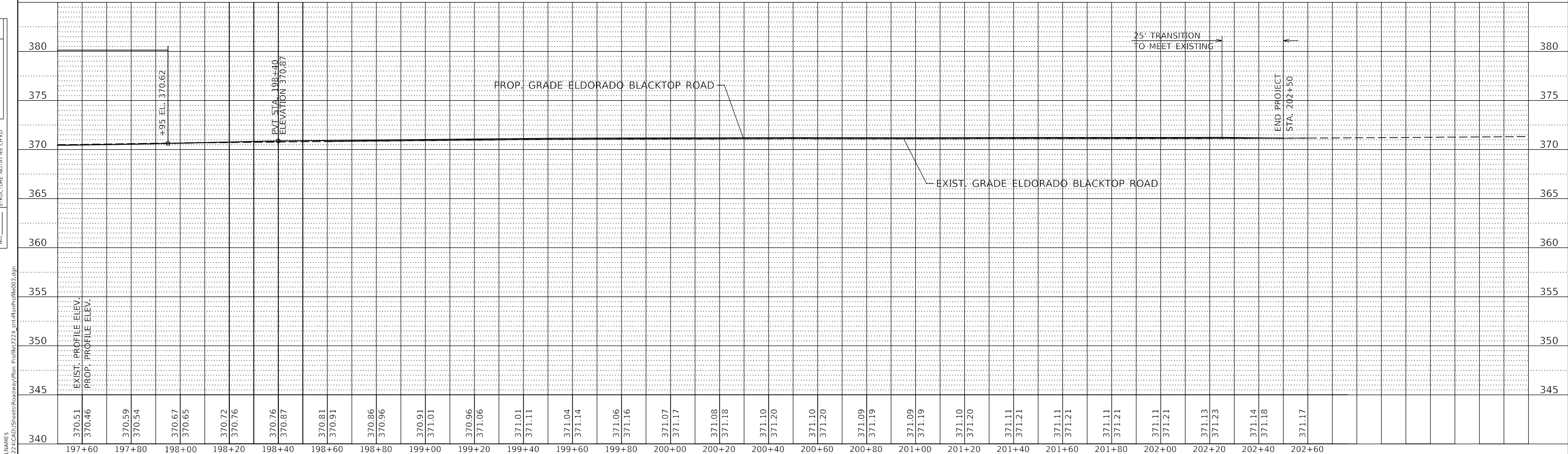
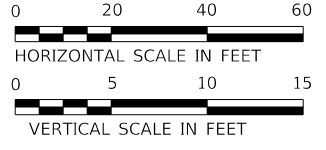
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NOTES:

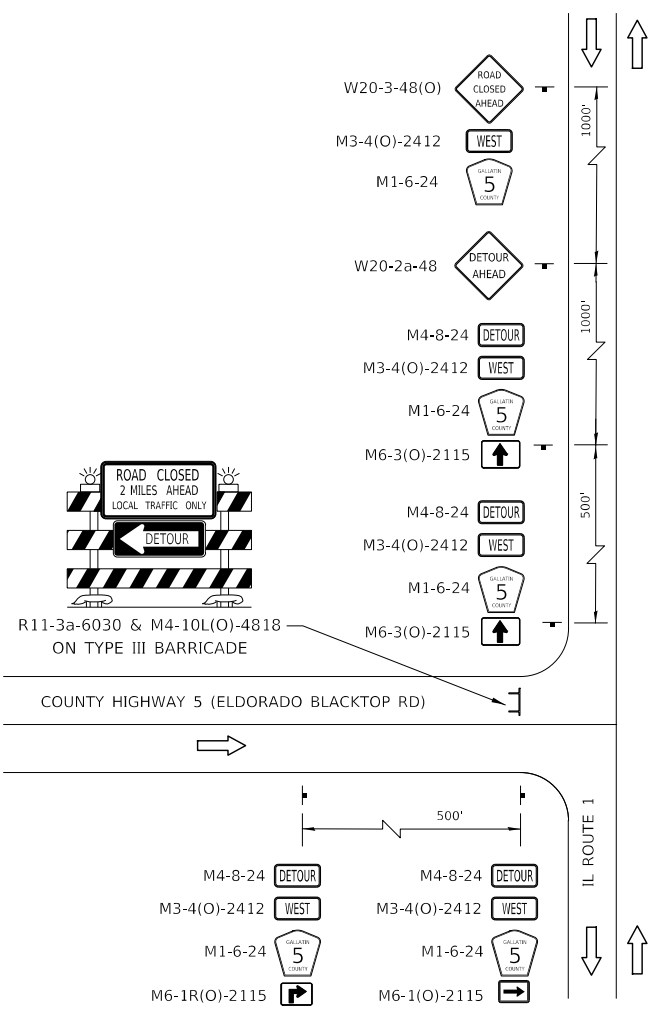
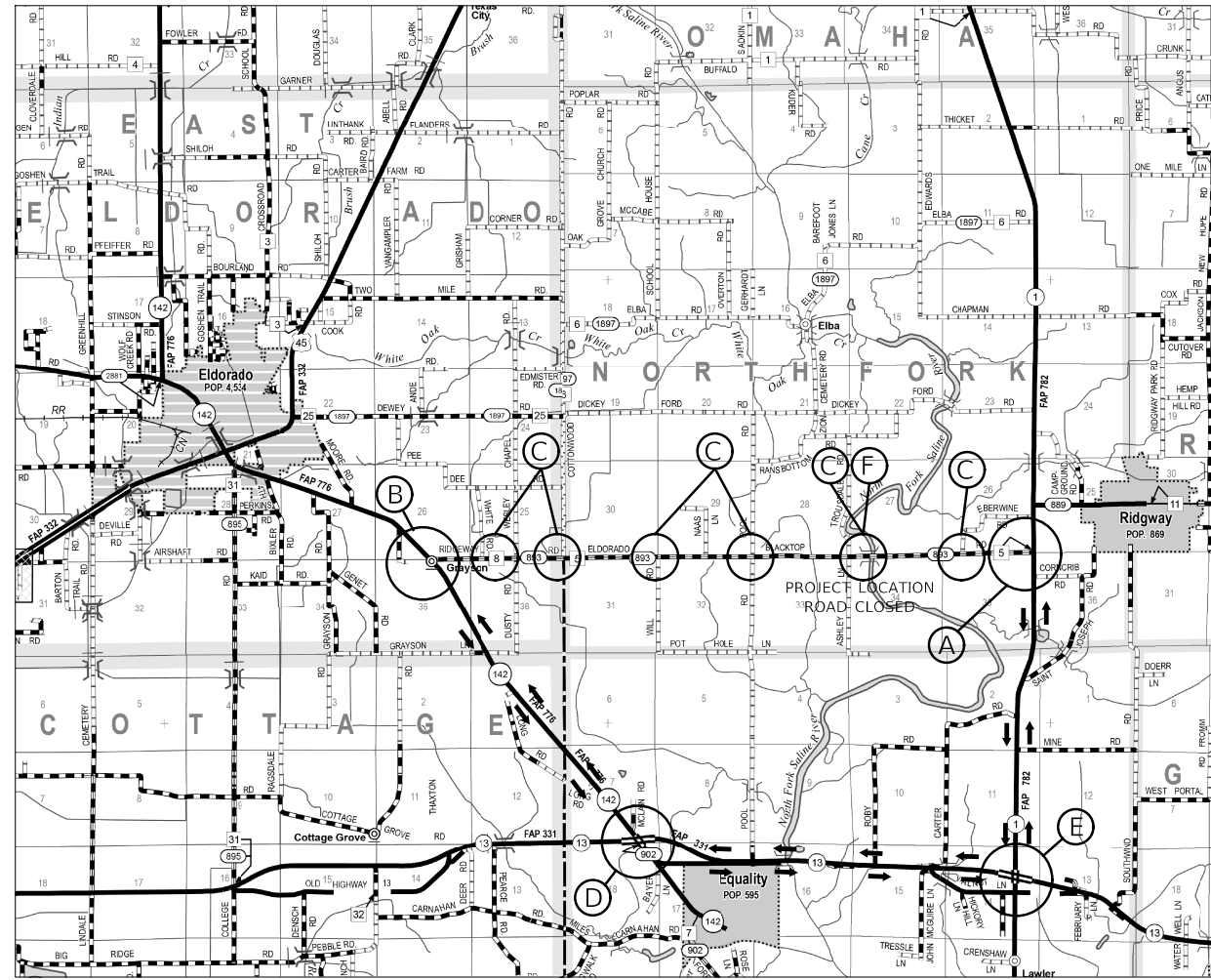
1. SEE PROPOSED TYPICAL SECTION FOR RESURFACING INFORMATION.
2. BARRIER AND GUARDRAIL REFLECTORS SHALL BE SPACED IN ACCORDANCE WITH HIGHWAY STANDARD 782006.

STA. 196+61 TO STA. 202+23
 TERMINAL MARKER - DA 1 EACH
 TRAF TERM BAR T1 SPL TAN 1 EACH
 SPBGR TB 9FT POST 475 FEET
 TRAF TERM BAR T6 1 EACH
 LENGTH OF NEED POINT STA. 202+10.5
 GRDRAIL REF TYPE A 1 EACH
 (SEE NOTE 2)

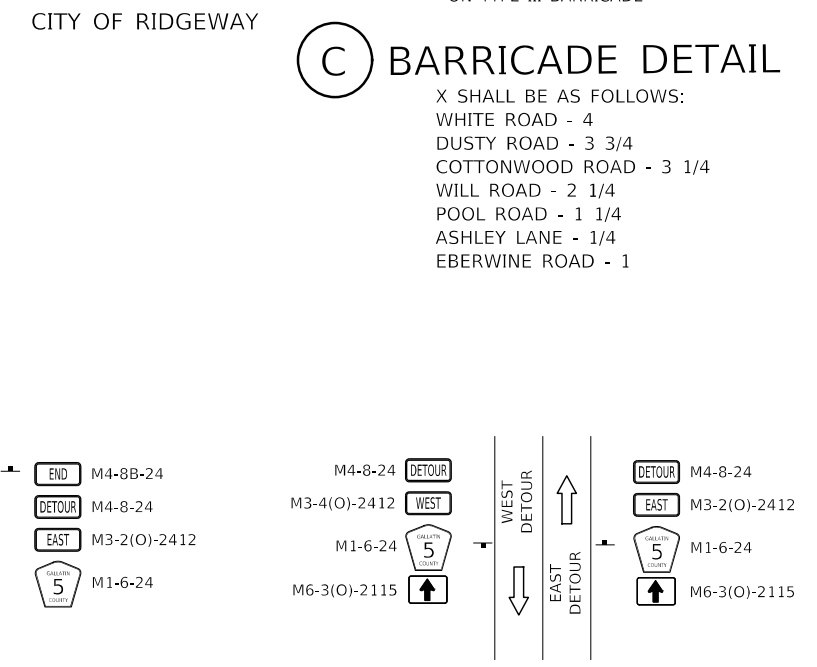


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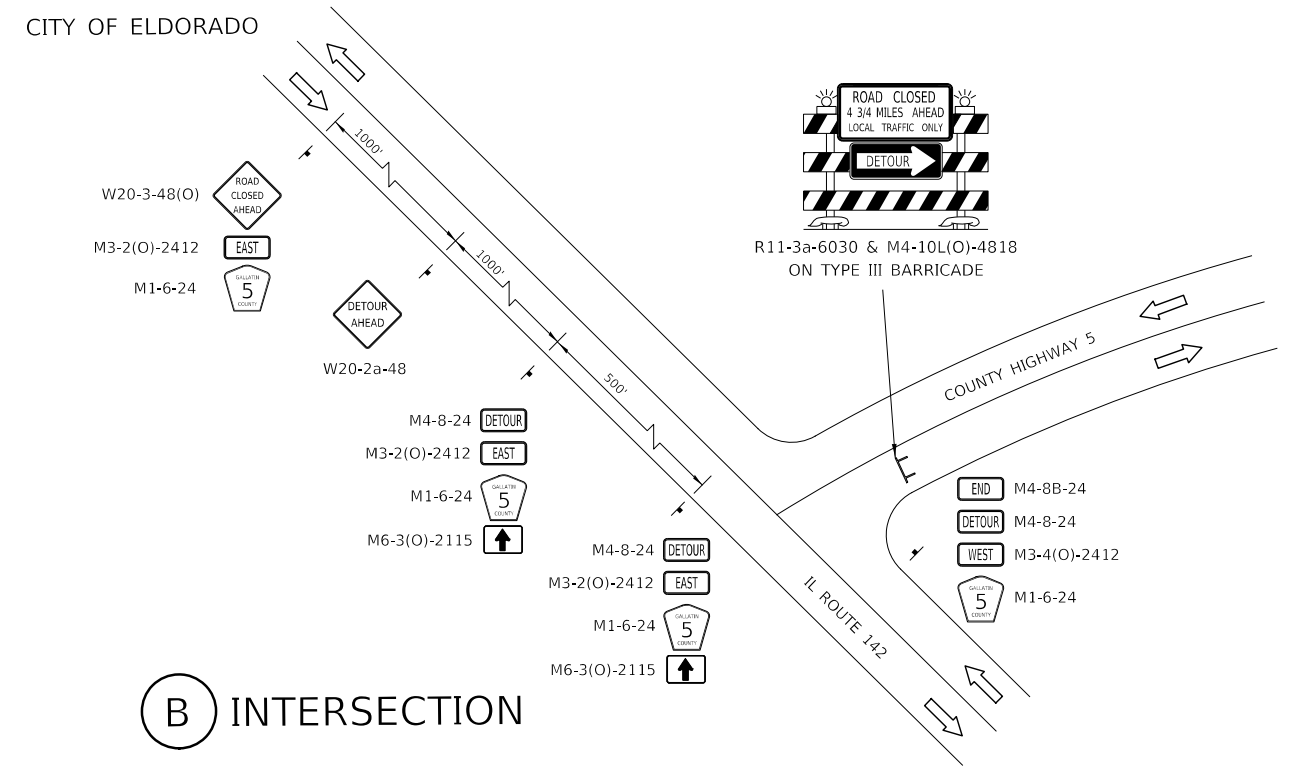
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(A) INTERSECTION



(B) MID - INTERSECTION
SEE NOTE 11



(C) BARRICADE DETAIL

NOTES:

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS, THE DETAILS IN THESE PLANS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE (3) WEEKS PRIOR TO THE DAY THE DETOURS ARE TO BE IN EFFECT. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL OFFICIALS AND INTERESTED PARTIES.
3. THE EXISTING ROAD AND ROADWAY SHALL NOT BE CLOSED UNTIL ALL DETOUR SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND APPROVED BY THE ENGINEER.
4. ALL DETOUR SIGNING SHALL BE COVERED WHEN THE DETOUR ROUTE IS NOT IN EFFECT.
5. THE CONTRACTOR SHALL MAKE CHANGES IN THE SIGNING AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL BARRICADES, SIGNS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES, THE CONTRACTOR SHALL ENSURE ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE PROPERLY PLACED AND OPERATING 24 HOURS A DAY, 7 DAYS A WEEK FOR THE DURATION OF THE DETOUR.
7. ALL EXISTING SIGNING THAT DOES NOT APPLY AND/OR CONFLICTS WITH THE DETOUR ROUTE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
8. ALL DETOUR SIGNING SHALL BE POST MOUNTED.
9. THE ENGINEER SHALL BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO THE REMOVAL OF THE DETOUR. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL OFFICIALS AND INTERESTED PARTIES.
10. SIGNING FOR INTERSECTIONS D AND E AND BRIDGE CLOSURE DETAIL F ARE SHOWN ON THE TRAFFIC CONTROL DETAILS SHEET.
11. MID-INTERSECTION DETOUR SIGNING AS SHOWN IN THE DETAIL SHALL BE PLACED AT APPROXIMATELY ONE (1) MILE INTERVALS BETWEEN INTERSECTIONS. THE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
12. ALL SIGNING AND WORKING ASSOCIATED WITH THE DETOUR ROUTE AS SHOWN AND NOTED ON THESE PLANS AND AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE CONTRACT UNIT COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

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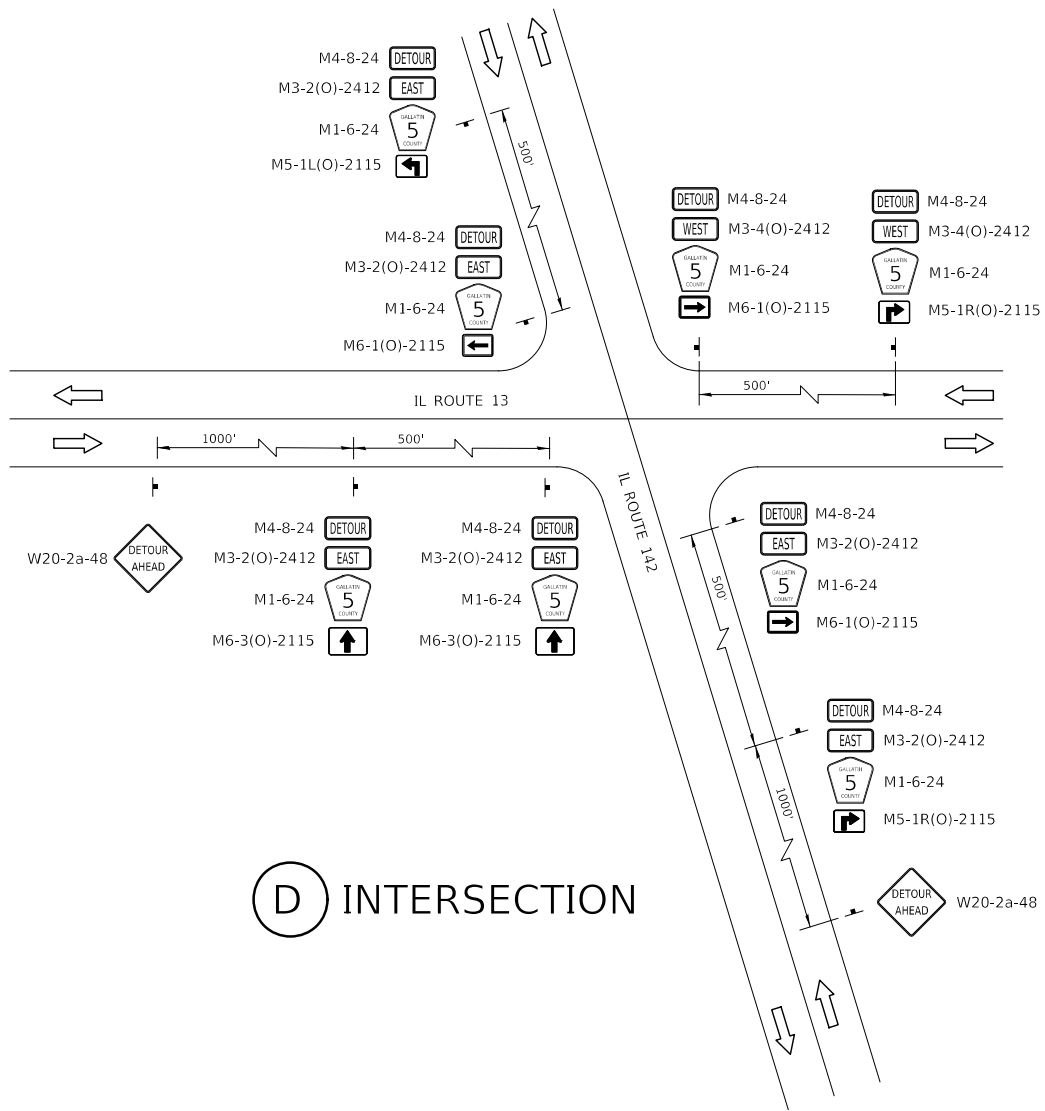


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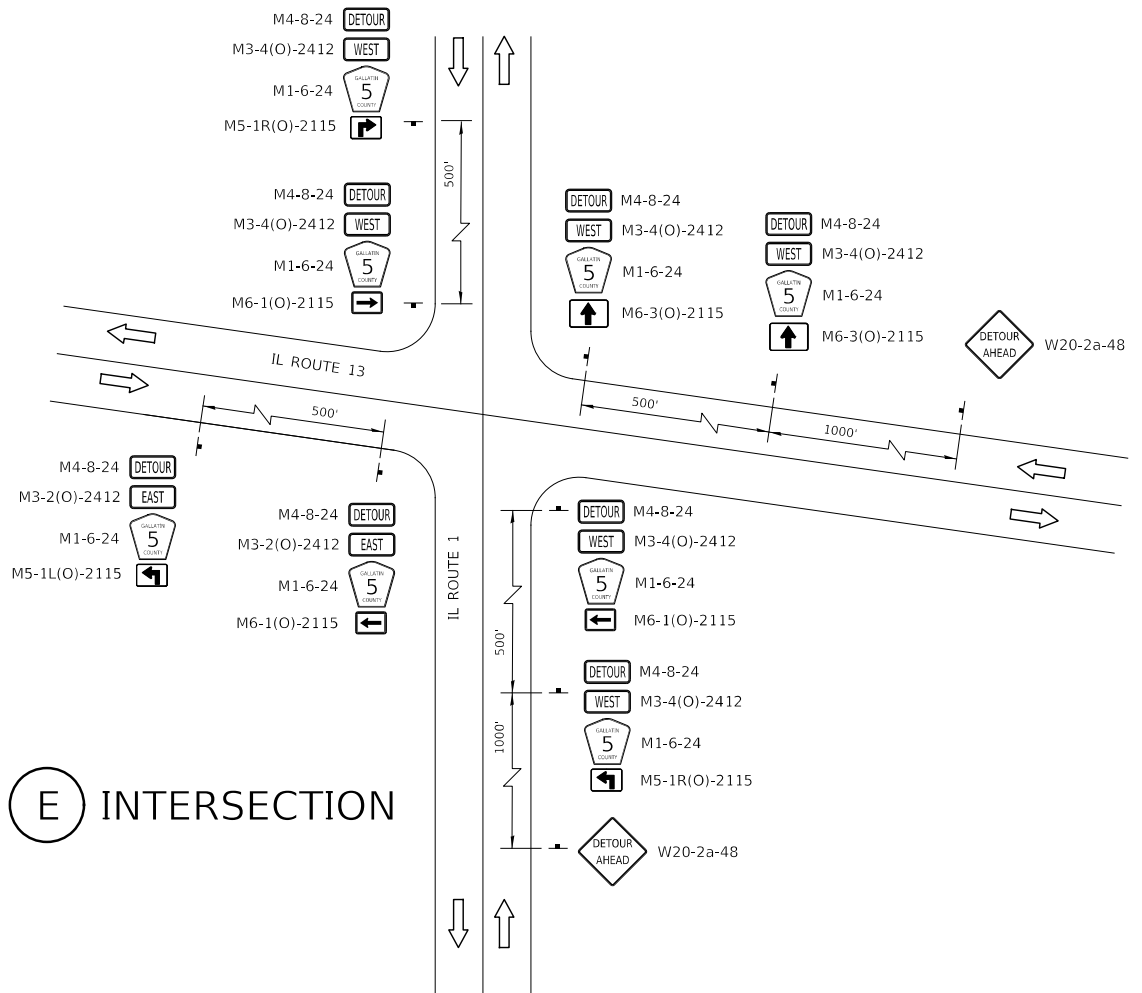
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR PLAN	
SCALE: AS SHOWN	SHEET 1 OF 1 SHEETS
STA.	TO STA.

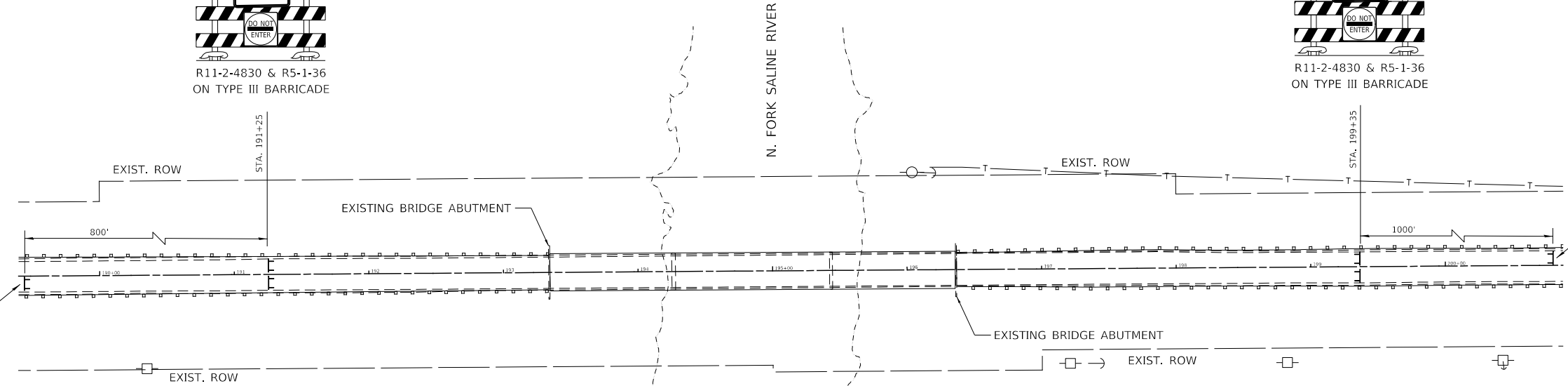
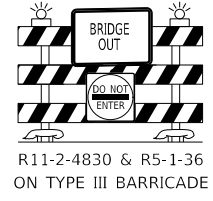
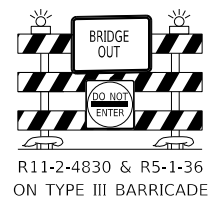
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893	14-00080-00-BR	GALLATIN	92	18
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



D INTERSECTION



E INTERSECTION



F BRIDGE CLOSURE DETAIL



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	DATE - APRIL 7, 2021	REVISED -

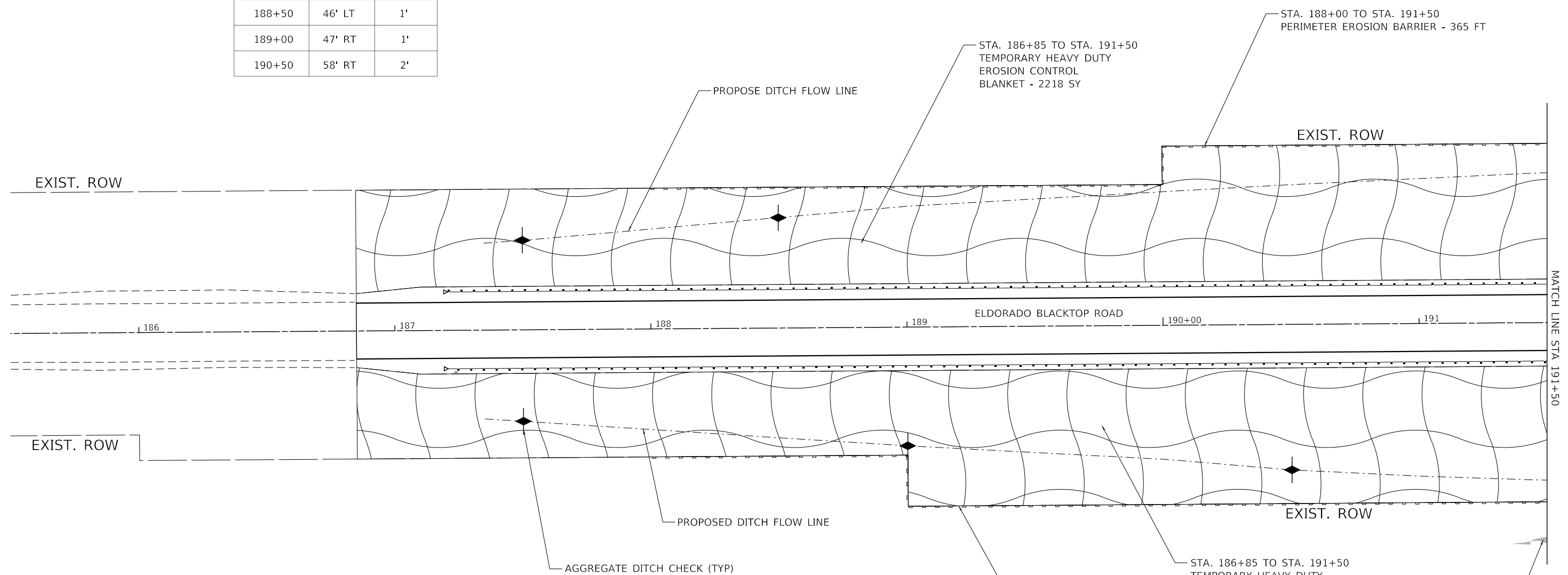
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL DETAILS
SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 190+00 TO STA. 200+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	19
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		



AGGREGATE DITCH CHECK HEIGHTS		
STATION	OFFSET	HEIGHT
188+00	36' LT	2'
188+00	36' RT	2'
188+50	46' LT	1'
189+00	47' RT	1'
190+50	58' RT	2'



EROSION CONTROL LEGEND

- PROPOSED DITCH FLOW LINE
- TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- WETLAND - NO IMPACT
- WETLAND - IMPACTED
- AGGREGATE DITCH CHECK (SEE NOTES)

NOTES

1. AGGREGATE DITCH CHECKS SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY STANDARD 280001.
2. HEIGHTS OF AGGREGATE DITCH CHECKS SHALL BE AS NOTED ON THE TABLE SHOWN ON THIS SHEET.
3. AGGREGATE DITCH CHECKS ARE PERMANENT AND ARE TO BE LEFT IN PLACE.



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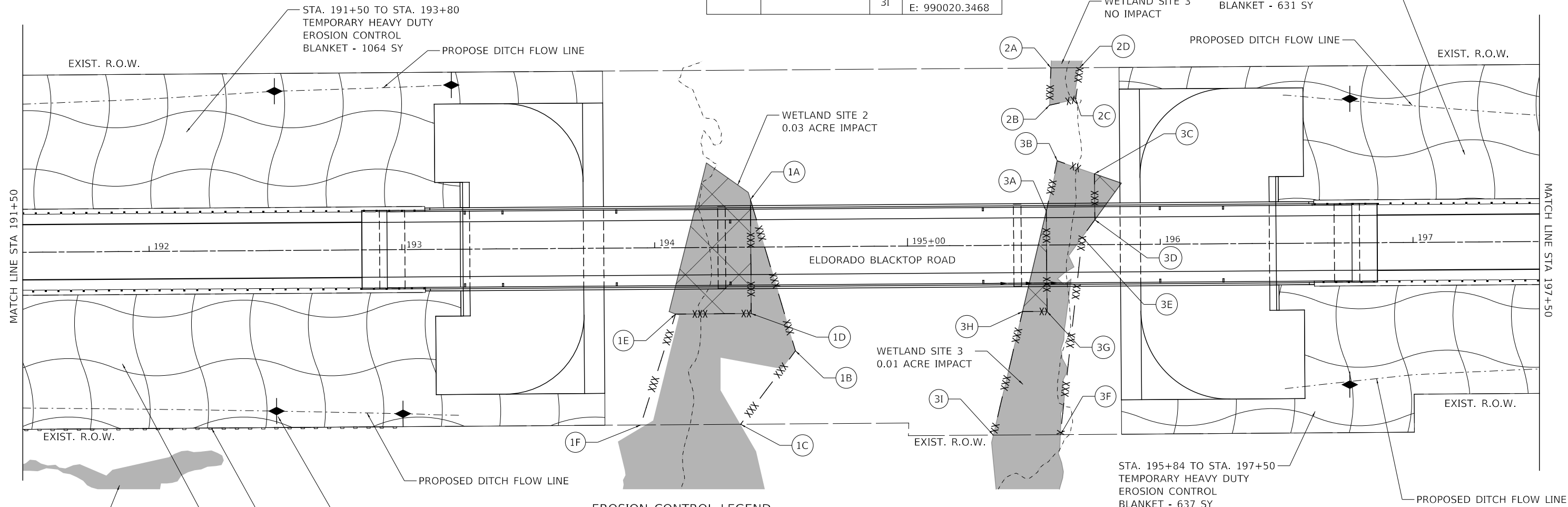
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WETLAND SITE	TEMPORARY FENCE (FT)	POINT	NORTHING EASTING
2	220	1A	N: 409433.0951 E: 989924.2769
		1B	N: 409373.2764 E: 989942.0885
		1C	N: 409344.1660 E: 989920.3624
		1D	N: 409388.0135 E: 989924.5971
		1E	N: 409387.8008 E: 989894.6423
		1F	N: 409343.9519 E: 989880.8736

WETLAND SITE	TEMPORARY FENCE (FT)	POINT	NORTHING EASTING
3	38	2A	N: 409485.1077 E: 990043.1293
		2B	N: 409470.3317 E: 990042.5499
		2C	N: 409472.7501 E: 990052.9336
		2D	N: 409485.1890 E: 990054.5697

WETLAND SITE	TEMPORARY FENCE (FT)	POINT	NORTHING EASTING
3	236	3A	N: 409428.5301 E: 990041.3123
		3B	N: 409448.4055 E: 990045.6492
		3C	N: 409443.2663 E: 990060.3748
		3D	N: 409425.0779 E: 990060.5039
		3E	N: 409418.2504 E: 990055.5523
		3F	N: 409340.1308 E: 990046.8919
		3G	N: 409388.8444 E: 990041.5941
		3H	N: 409388.7756 E: 990031.9038
		3I	N: 409339.9423 E: 990020.3468

AGGREGATE DITCH CHECK HEIGHTS		
STATION	OFFSET	HEIGHT
192+50	64' LT	1'
192+50	64' RT	1'
193+00	66' RT	1'
193+20	66' LT	1'
196+75	57' LT	3'
196+75	56' RT	3'



EROSION CONTROL LEGEND

- XXX - XXX TEMPORARY FENCE (SEE NOTE 4)
- - - - - PROPOSED DITCH FLOW LINE
- [Wavy Line Pattern] TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- [Solid Grey Box] WETLAND - NO IMPACT
- [Cross-hatched Box] WETLAND - IMPACTED
- ◆ AGGREGATE DITCH CHECK (SEE NOTES)

NOTES

- AGGREGATE DITCH CHECKS SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY STANDARD 280001.
- HEIGHTS OF AGGREGATE DITCH CHECKS SHALL BE AS NOTED ON THE TABLE SHOWN ON THIS SHEET.
- AGGREGATE DITCH CHECKS ARE PERMANENT AND ARE TO BE LEFT IN PLACE.
- "PROTECTED WETLAND - NO INTRUSION" SIGNAGE SHALL BE PROVIDED AT THE BOUNDARY OF IMPACTED WETLAND. THE CONTRACTOR SHALL ATTACH A MINIMUM OF TWO (2) SIGNS ON EACH SIDE OF THE TEMPORARY FENCING. THE LOCATIONS AND METHOD OF ATTACHING THE SIGNS SHALL BE APPROVED BY THE ENGINEER. THE COST OF THE SIGNS SHALL BE INCLUDED IN THE CONTRACT UNIT COST FOR "TEMPORARY FENCE"



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	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

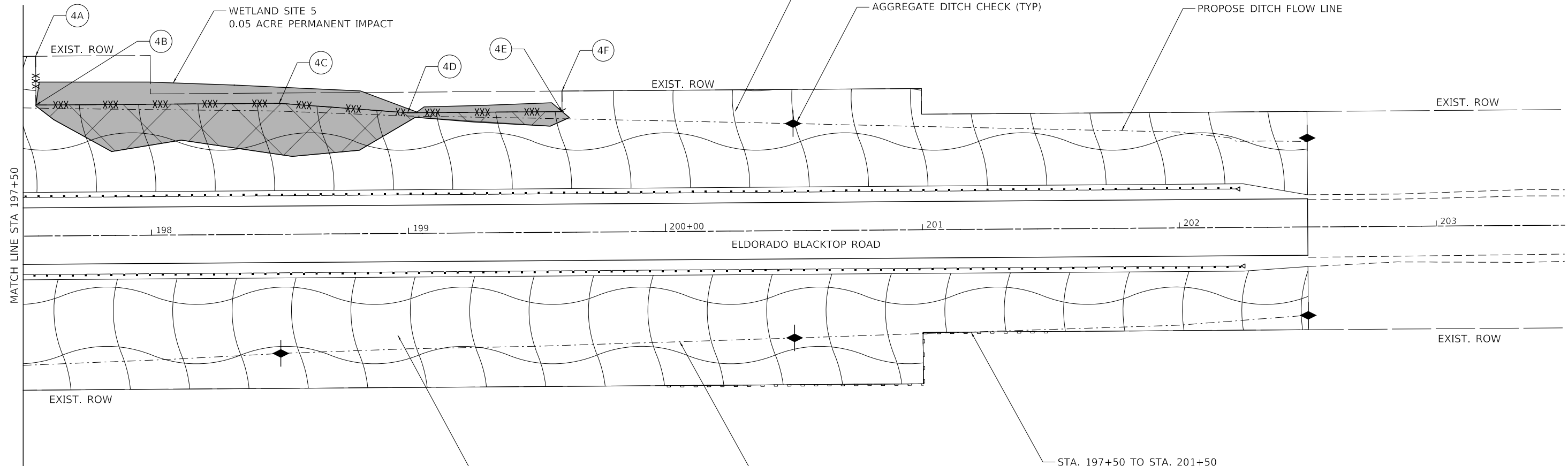
EROSION CONTROL PLAN

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. 191+50 TO STA. 197+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	21
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

WETLAND SITE	TEMPORARY FENCE (FT)	POINT	NORTHING EASTING
5	232	4A	N: 409486.5149 E: 990241.2682
		4B	N: 409467.5154 E: 990241.4032
		4C	N: 409468.1875 E: 990336.0381
		4D	N: 409464.5427 E: 990386.0652
		4E	N: 409464.9698 E: 990446.2009
		4F	N: 409472.9696 E: 990446.1441

AGGREGATE DITCH CHECK HEIGHTS		
STATION	OFFSET	HEIGHT
198+50	47' RT	1'
200+50	43' LT	3'
200+50	43' RT	1'
202+50	35' LT	1'
202+50	34' RT	1'



EROSION CONTROL LEGEND

- XXX - XXX TEMPORARY FENCE (SEE NOTE 4)

- - - - - PROPOSED DITCH FLOW LINE

 TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET

 WETLAND - NO IMPACT

 WETLAND - IMPACTED

 AGGREGATE DITCH CHECK (SEE NOTES)

STA. 197+50 TO STA. 202+50
TEMPORARY HEAVY DUTY
EROSION CONTROL
BLANKET - 2059 SY

PROPOSED DITCH FLOW LINE

STA. 197+50 TO STA. 201+50
PERIMETER EROSION BARRIER - 170 FT

NOTES

1. AGGREGATE DITCH CHECKS SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY STANDARD 280001.
2. HEIGHTS OF AGGREGATE DITCH CHECKS SHALL BE AS NOTED ON THE TABLE SHOWN ON THIS SHEET.
3. AGGREGATE DITCH CHECKS ARE PERMANENT AND ARE TO BE LEFT IN PLACE.
4. "PROTECTED WETLAND - NO INTRUSION" SIGNAGE SHALL BE PROVIDED AT THE BOUNDARY OF IMPACTED WETLAND. THE CONTRACTOR SHALL ATTACH A MINIMUM OF TWO (2) SIGNS ON EACH SIDE OF THE TEMPORARY FENCING. THE LOCATIONS AND METHOD OF ATTACHING THE SIGNS SHALL BE APPROVED BY THE ENGINEER. THE COST OF THE SIGNS SHALL BE INCLUDED IN THE CONTRACT UNIT COST FOR "TEMPORARY FENCE"



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	DATE - MAY 17, 2021	REVISED -

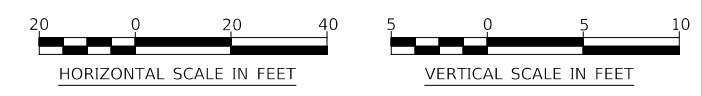
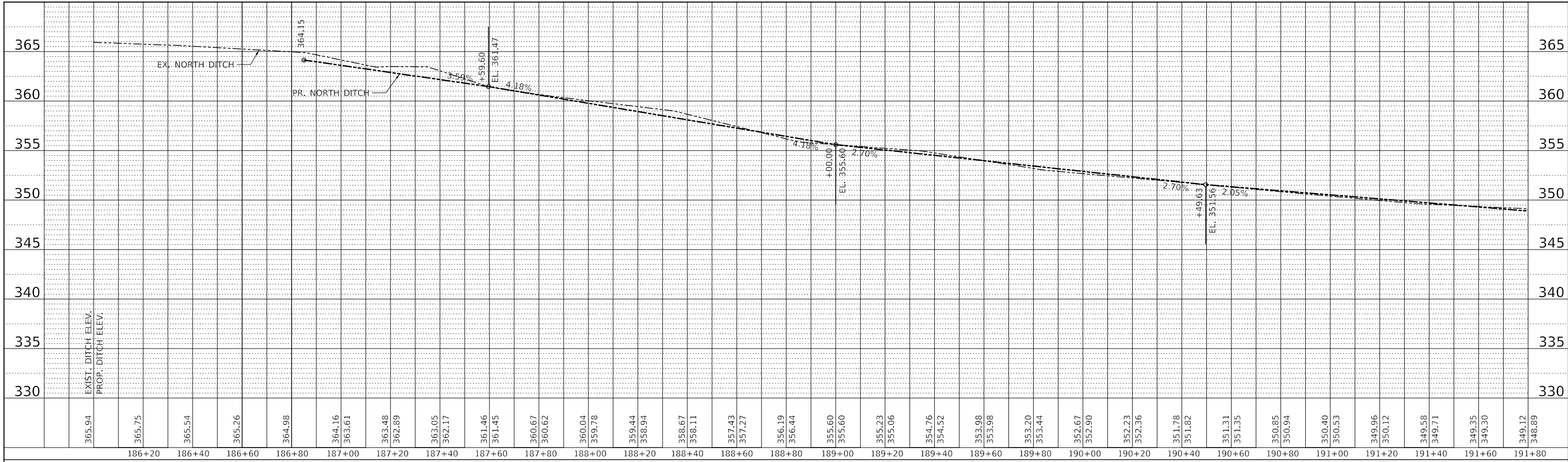
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

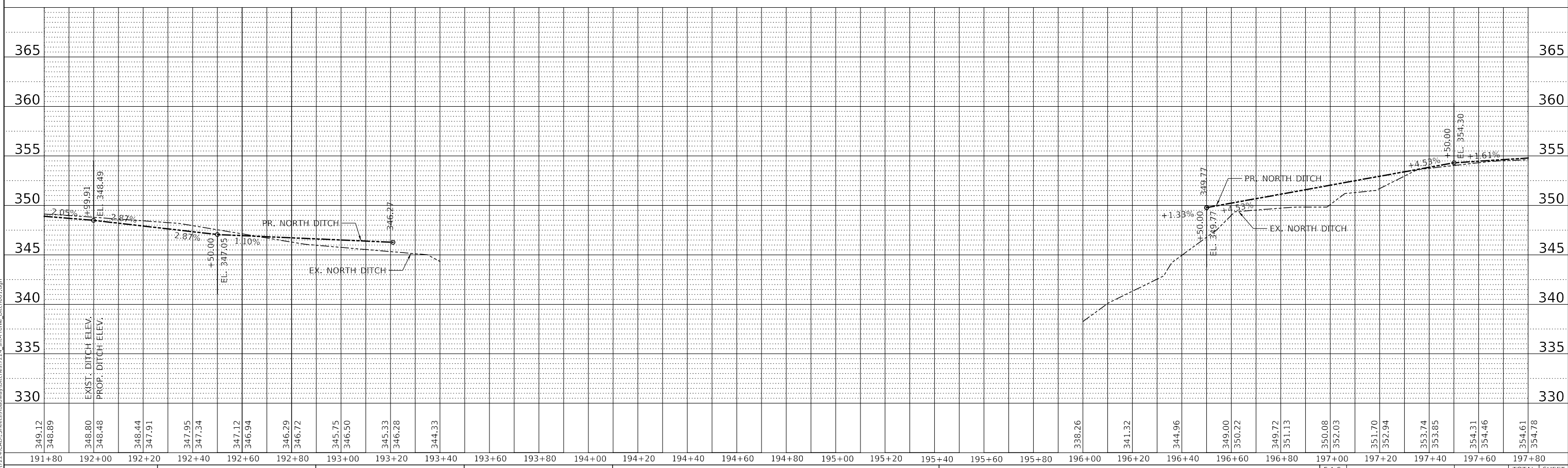
SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. 197+50 TO STA. 203+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNED		
	CHECKED		
	CADD FILE NAME		



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



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	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

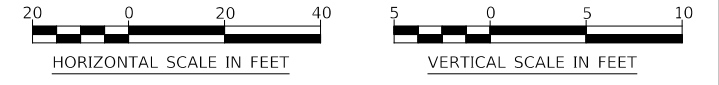
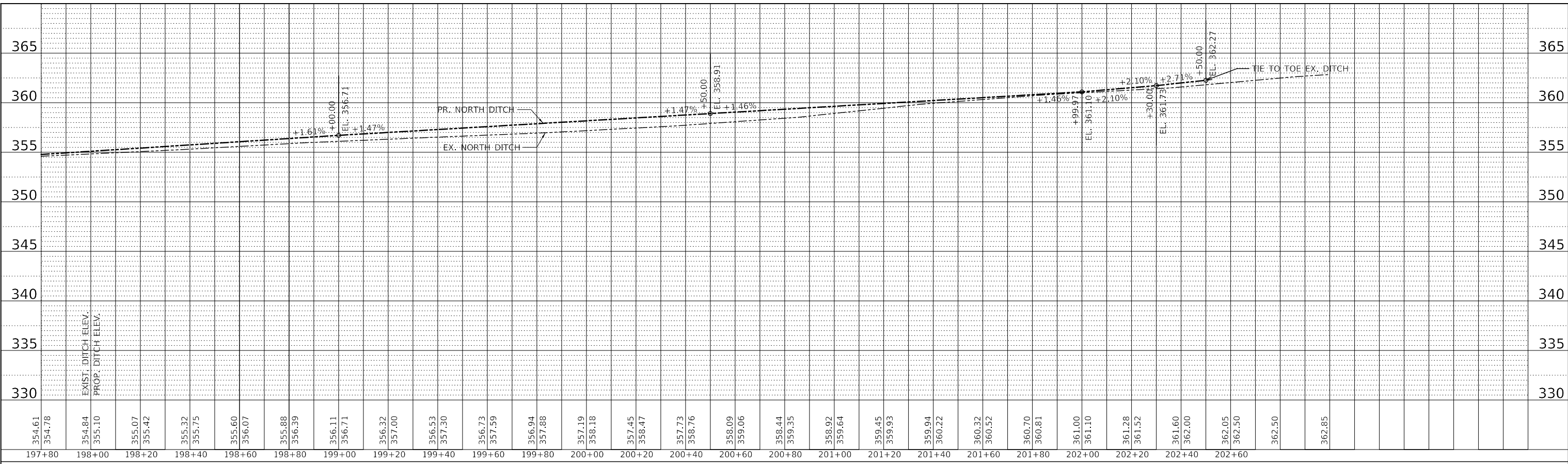
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SCALE: AS SHOWN	SHEET 1	OF 4 SHEETS	STA. 186+00 TO STA. 197+80

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 23
CONTRACT NO. 09612				
ILLINOIS FED. AID PROJECT				

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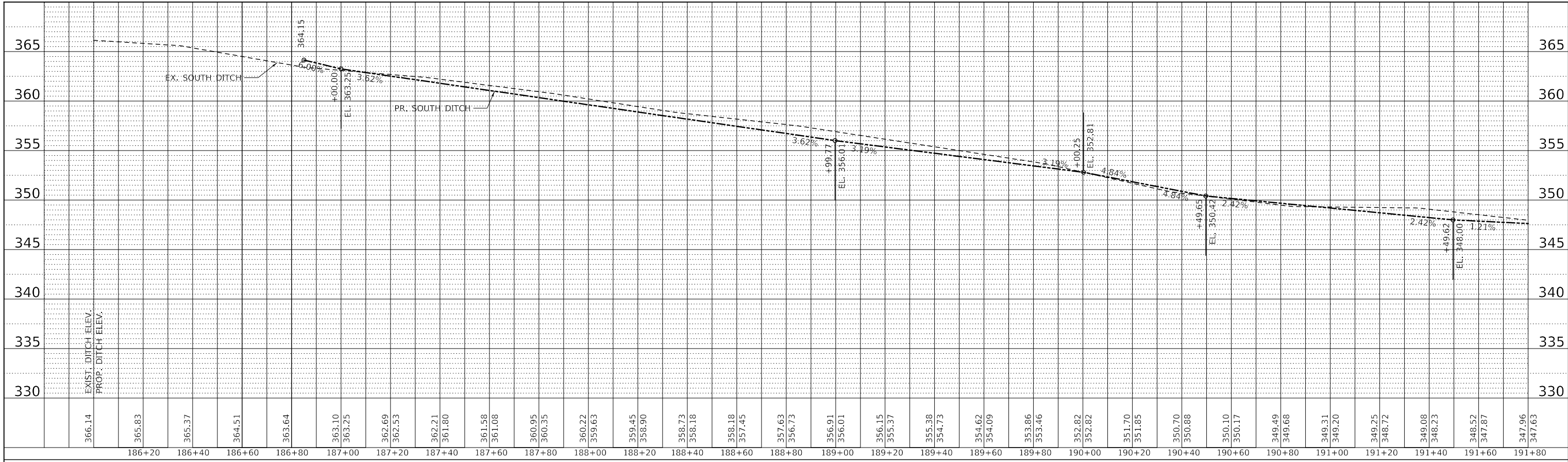
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

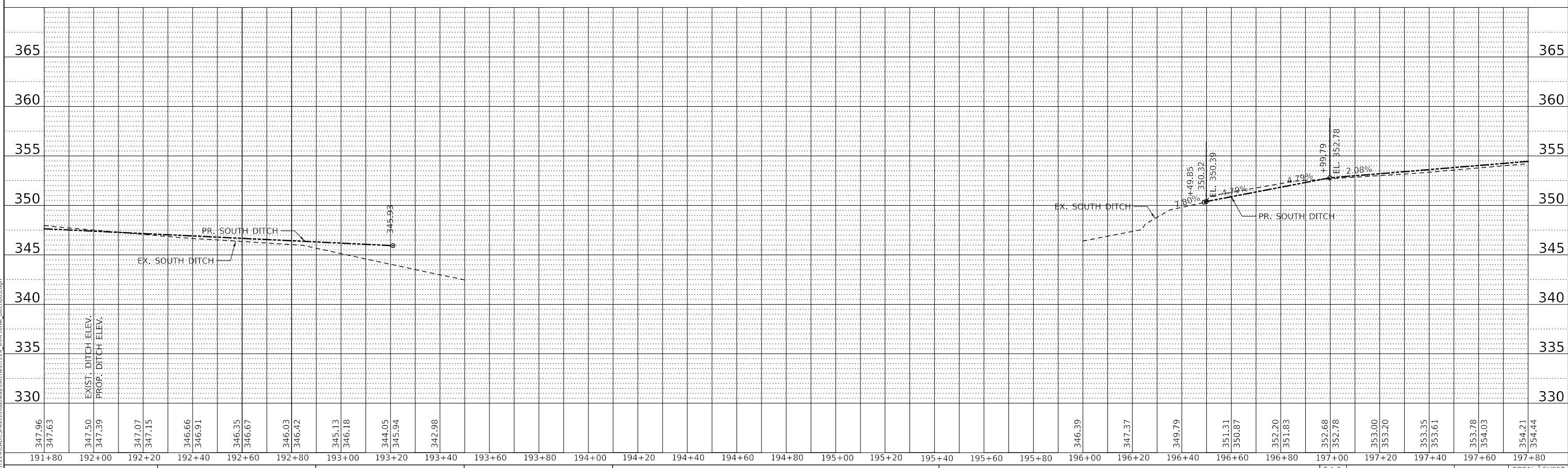
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STA. 197+80	TO STA. 202+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	24
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
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NOTE BOOK NO.	ALIGNED		
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	NOTATION		



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

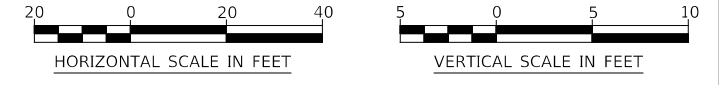
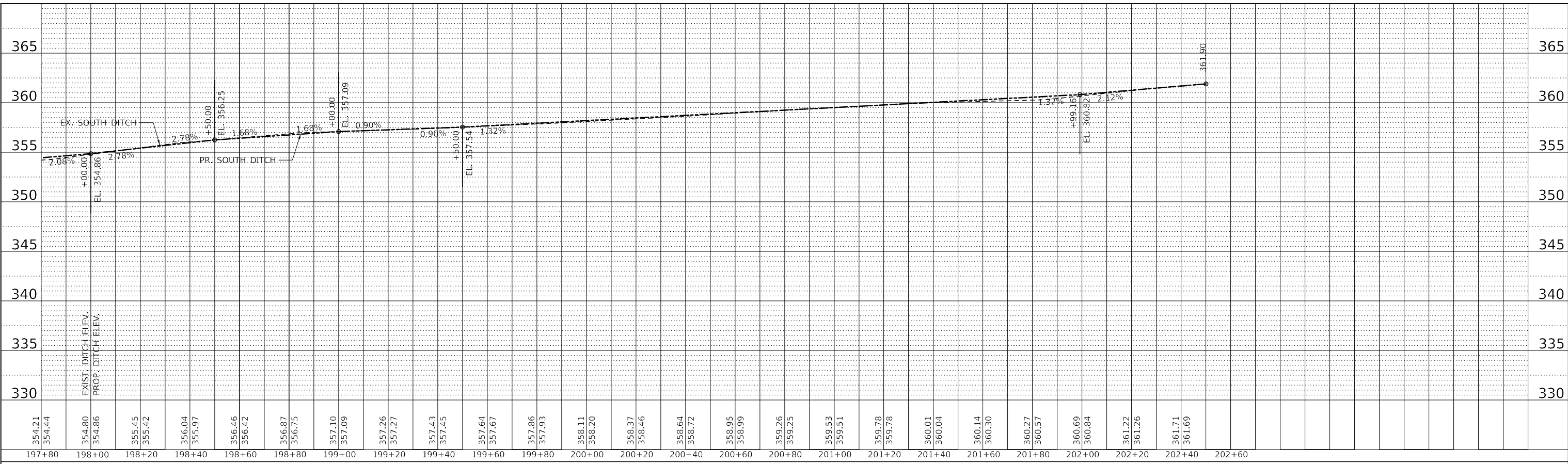
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SCALE: AS SHOWN	SHEET 3	OF 4 SHEETS	STA. 186+00 TO STA. 197+80

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893	14-00080-00-BR	GALLATIN	92	25
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		

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	PLOTTED		
NOTE BOOK NO.	CHECKED		
	FILE NAME		

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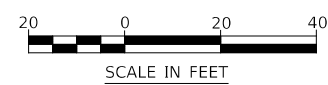
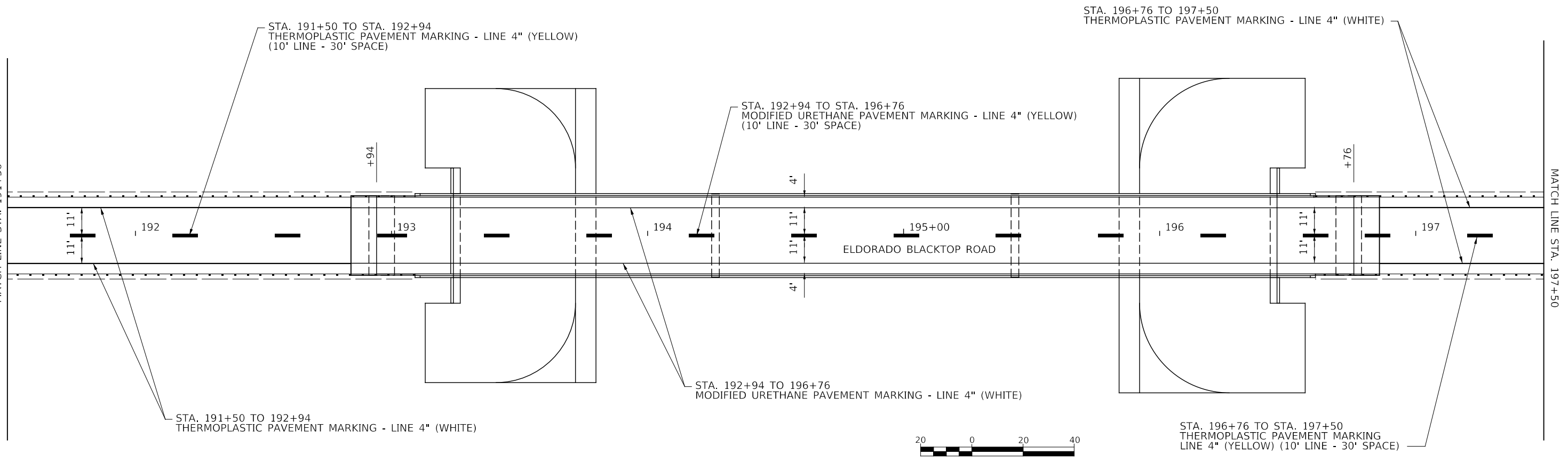
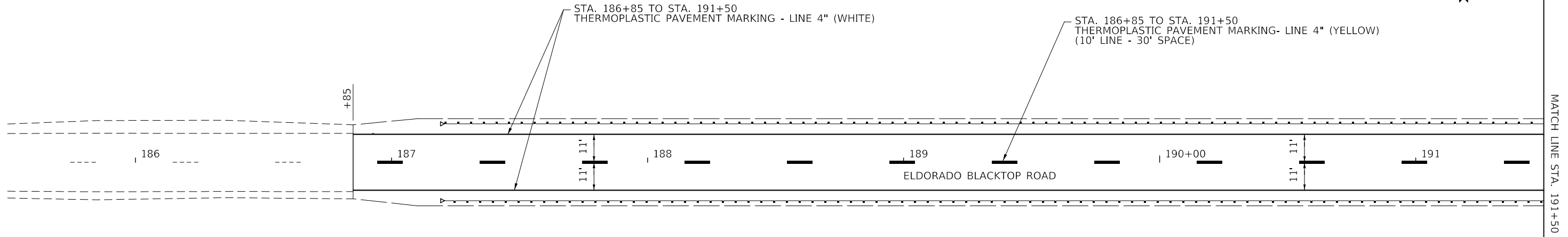
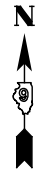


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	DATE - MARCH 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DITCH PROFILE SOUTH	
SCALE: AS SHOWN	SHEET 4 OF 4 SHEETS
STA. 197+80	TO STA. 202+50

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 26	SHEET NO. 92
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		



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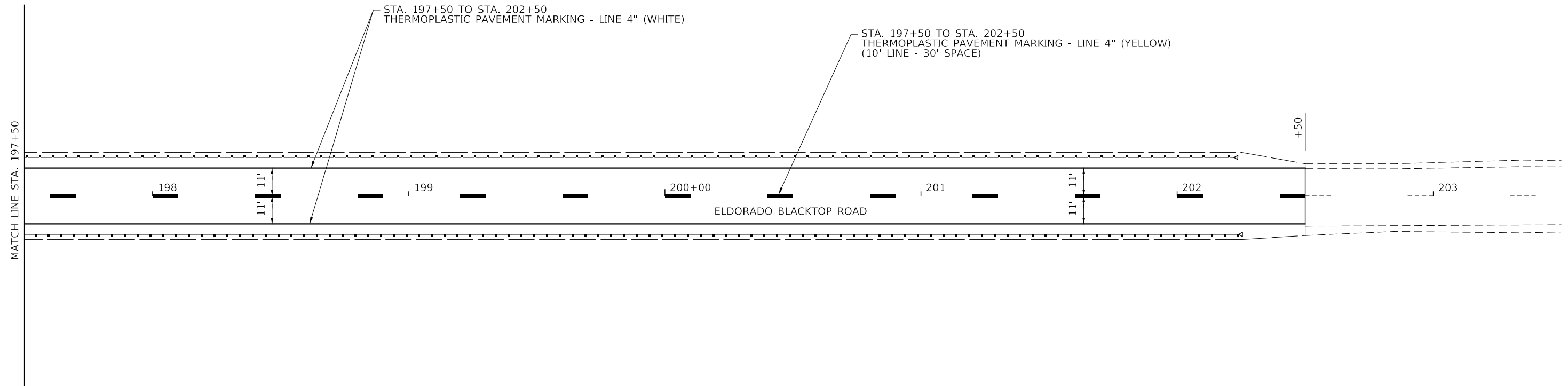
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	DATE - MARCH 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN			
SCALE: AS SHOWN	SHEET 1 OF 2 SHEETS	STA. 186+85	TO STA. 197+50

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 27
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 99612



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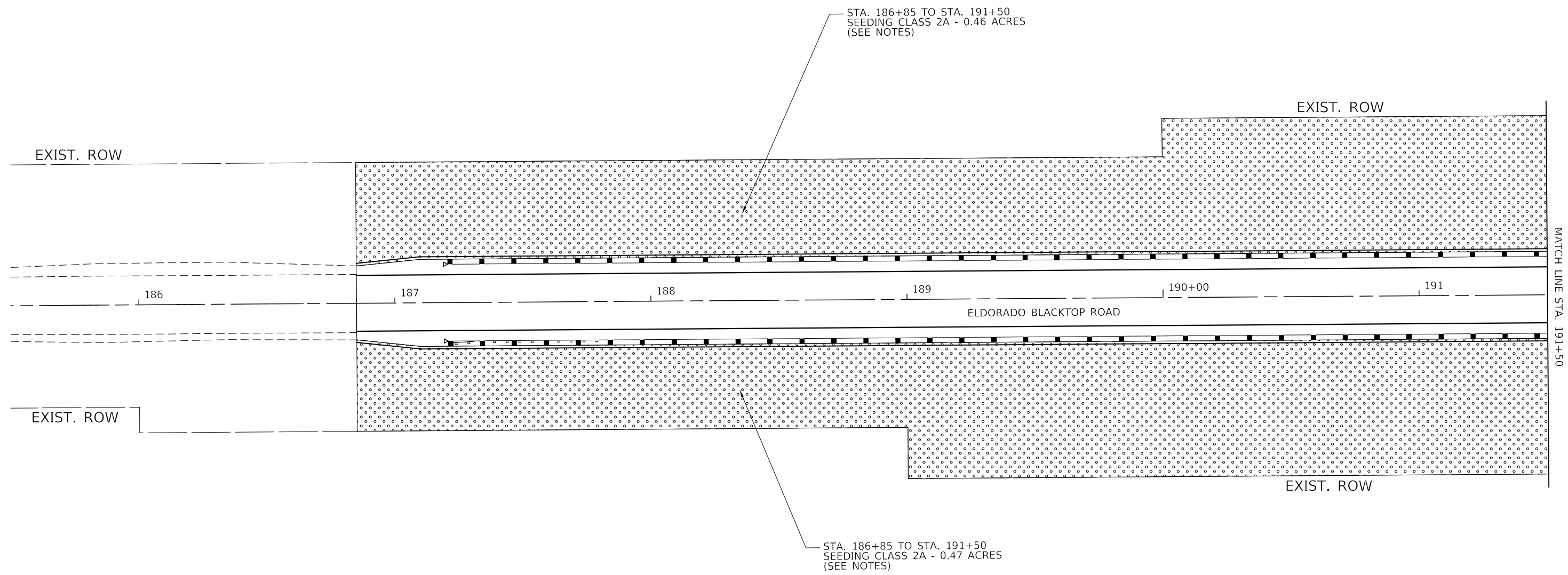
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

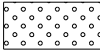
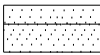

SCALE: AS SHOWN SHEET 2 OF 2 SHEETS STA. 197+50 TO STA. 202+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	



- NOTES:
1. 4" OF TOPSOIL SHALL BE PLACED IN ALL SEEDING AREAS.
 2. NITROGEN AND POTASSIUM FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDING AREAS.
 3. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL SEEDING AREAS.
 4. SEEDING SHALL BE PLACED WITHIN 10 CALENDAR DAYS OF THE COMPLETION OF THE FINAL GRADING WITHIN EACH QUADRANT OF THE PROJECT CORRIDOR.

SEEDING LEGEND

-  SEEDING CLASS 2A
-  SEEDING CLASS 4
-  SEEDING CLASS 5B



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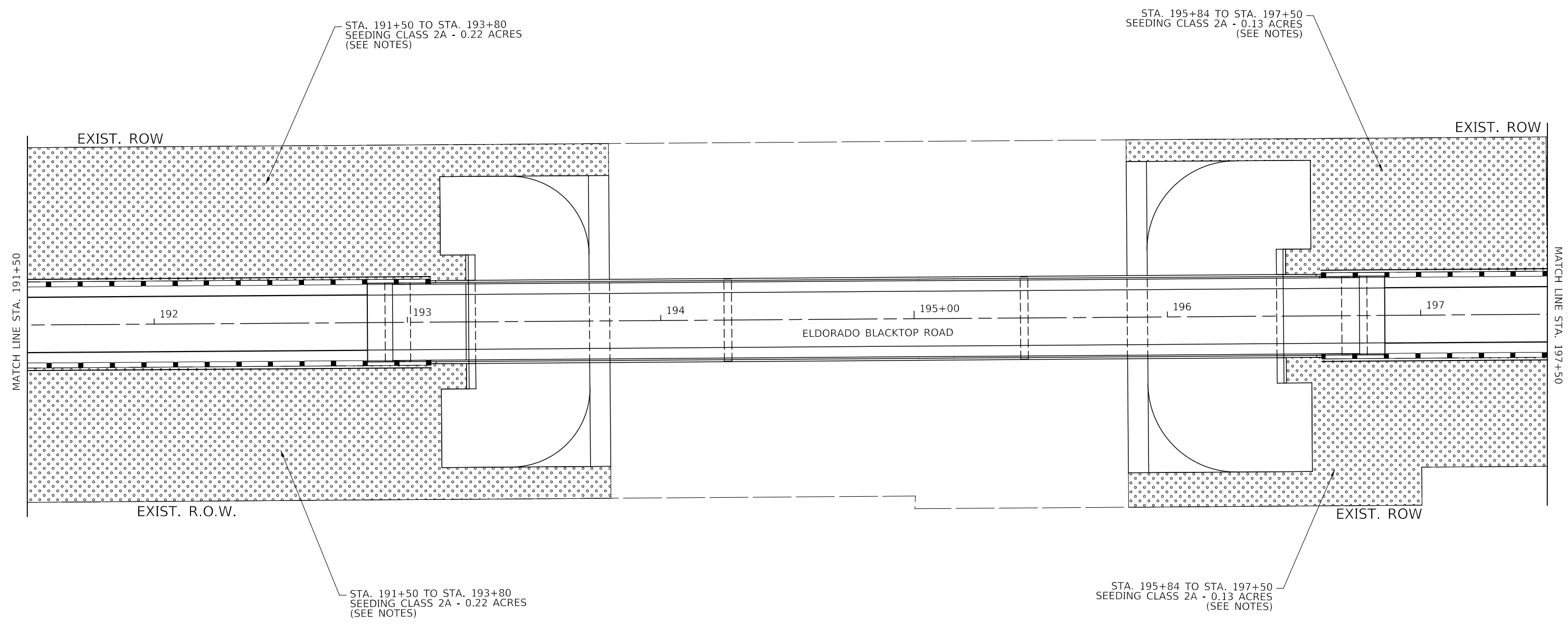
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SEEDING PLAN

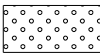
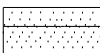
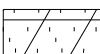
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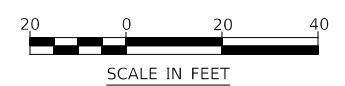
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893	14-00080-00-BR	GALLATIN	92	29
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		



- NOTES:
1. 4" OF TOPSOIL SHALL BE PLACED IN ALL SEEDING AREAS.
 2. NITROGEN AND POTASSIUM FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDING AREAS.
 3. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL SEEDING AREAS.
 4. SEEDING SHALL BE PLACED WITHIN 10 CALENDAR DAYS OF THE COMPLETION OF THE FINAL GRADING WITHIN EACH QUADRANT OF THE PROJECT CORRIDOR.

SEEDING LEGEND

-  SEEDING CLASS 2A
-  SEEDING CLASS 4
-  SEEDING CLASS 5B



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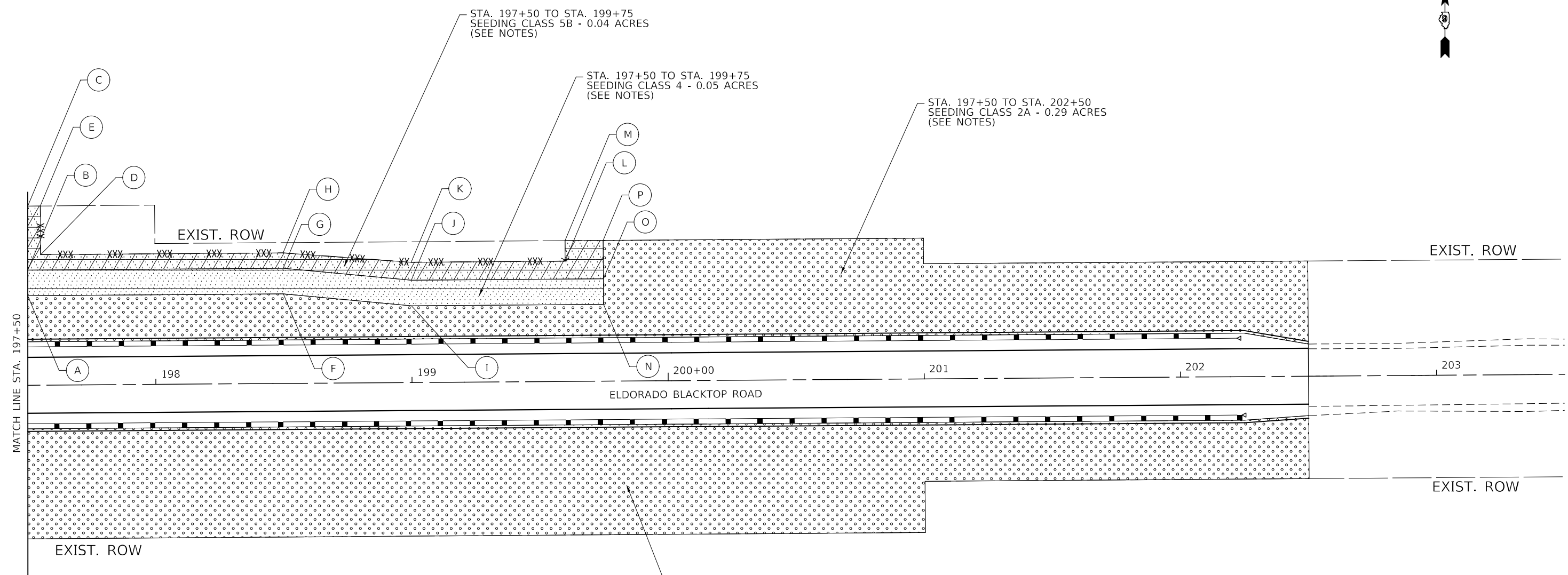
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PLOT DATE = 3/25/2021	DATE - MARCH 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SEEDING PLAN

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. 191+50 TO STA. 197+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	30
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		



- (A) STA. 197+50, 35' LT
- (B) STA. 197+50, 45' LT
- (C) STA. 197+50, 70' LT
- (D) STA. 197+55, 51' LT
- (E) STA. 197+55, 70' LT
- (F) STA. 198+50, 35' LT
- (G) STA. 198+50, 45' LT
- (H) STA. 198+50, 51' LT
- (I) STA. 199+00, 30' LT
- (J) STA. 199+00, 40' LT
- (K) STA. 199+00, 47' LT
- (L) STA. 199+60, 47' LT
- (M) STA. 199+60, 55' LT
- (N) STA. 199+75, 30' LT
- (O) STA. 199+75, 40' LT
- (P) STA. 199+75, 55' LT

STA. 197+50 TO STA. 202+50
SEEDING CLASS 2A - 0.43 ACRES
(SEE NOTES)

NOTES:

1. 4" OF TOPSOIL SHALL BE PLACED IN ALL SEEDING AREAS.
2. NITROGEN AND POTASSIUM FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDING AREAS.
3. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL SEEDING AREAS.
4. SEEDING SHALL BE PLACED WITHIN 10 CALENDAR DAYS OF THE COMPLETION OF THE FINAL GRADING WITHIN EACH QUADRANT OF THE PROJECT CORRIDOR.

SEEDING LEGEND

- SEEDING CLASS 2A
- SEEDING CLASS 4
- SEEDING CLASS 5B



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KNIGHT Engineers & Architects	USER NAME = jmurillo	DESIGNED - CJF	REVISED -
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		DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SEEDING PLAN	
SCALE: AS SHOWN	SHEET 3 OF 3 SHEETS
STA. 197+50	TO STA. 202+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	31
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		

Bench Mark: TMB 2 'Chiseled Square' at Sta. 193+34 14.3' Rt Elev. 367.07

Existing Structure: SN 030-3007 built as Ashley Bridge over North Fork Saline River, Section 22-B in 1955. The Existing Structure is 3 span continuous (91'-6", 117'-0", 91'-6") with 303'-9" back-to-back abutments. The superstructure consists of a 7" deck on non-composite wide flange beams and 27'-8" out to out deck width. The existing abutments are stub abutments supported on metal shell piles. The existing piers are multi-column with large crashwalls supported on spread footings founded on rock. The superstructure and abutments are to be replaced. The piers are to be reused.

Construction Staging: Not required. CH 5 will be closed during the reconstruction of the bridge.

LOADING HL-93

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

DESIGN SPECIFICATIONS

New Construction:
2020 AASHTO LRFD Bridge Design Specifications,
Customary U.S. Units, 9th Edition

Existing Piers:
2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

2006 FHWA Seismic Retrofitting Manual
for Highway Structures: Part 1 Bridges

DESIGN STRESSES

FIELD UNITS (New Construction)

$f'_c = 4,000$ psi (superstructure concrete)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Gr. 50W)

FIELD UNITS (Existing Construction)

$f'_c = 2,500$ psi
 $f_y = 40,000$ psi (reinforcement)

SEISMIC DATA

New Construction:

Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.320g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.753g
Soil Site Class = D

Existing Piers:

Seismic Performance Category (SPC) = B
Horizontal Bedrock Acceleration Coefficient = 0.100g
Site Coefficient = 1.0

I certify that to the best of knowledge, information and belief, this bridge/box culvert 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 Standard Specifications for Highway Bridges.



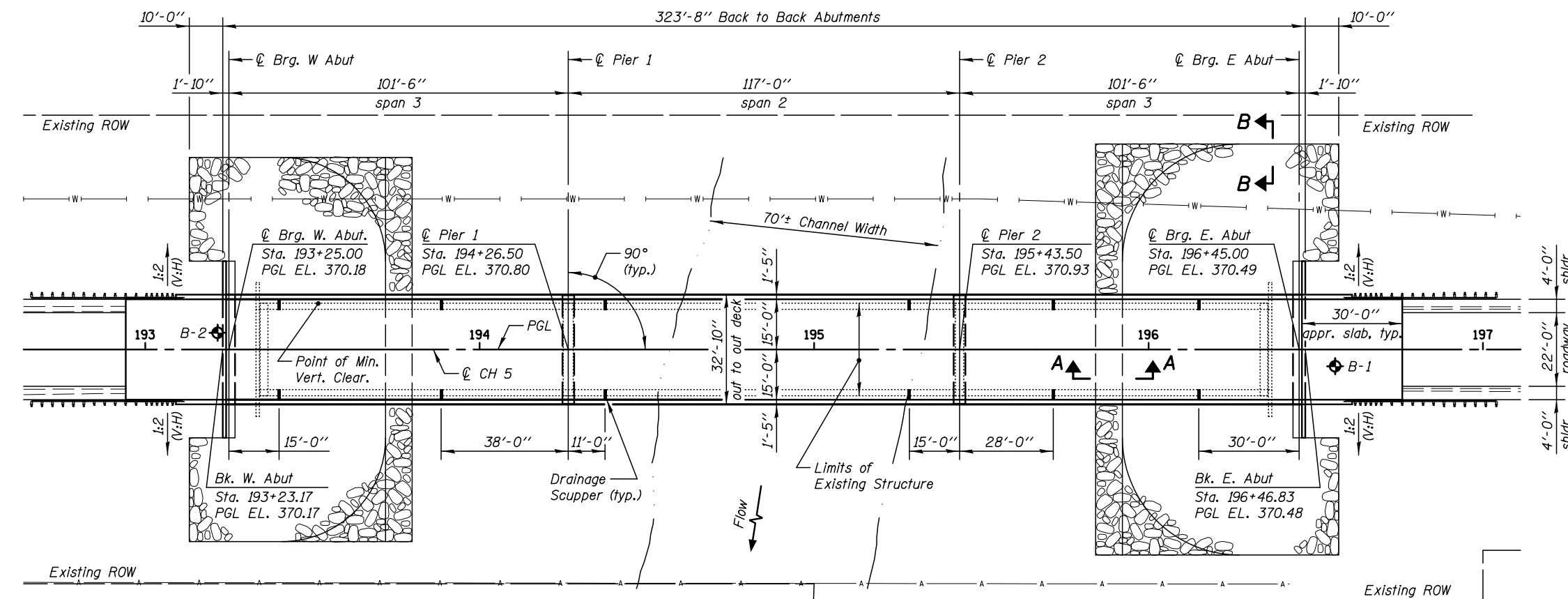
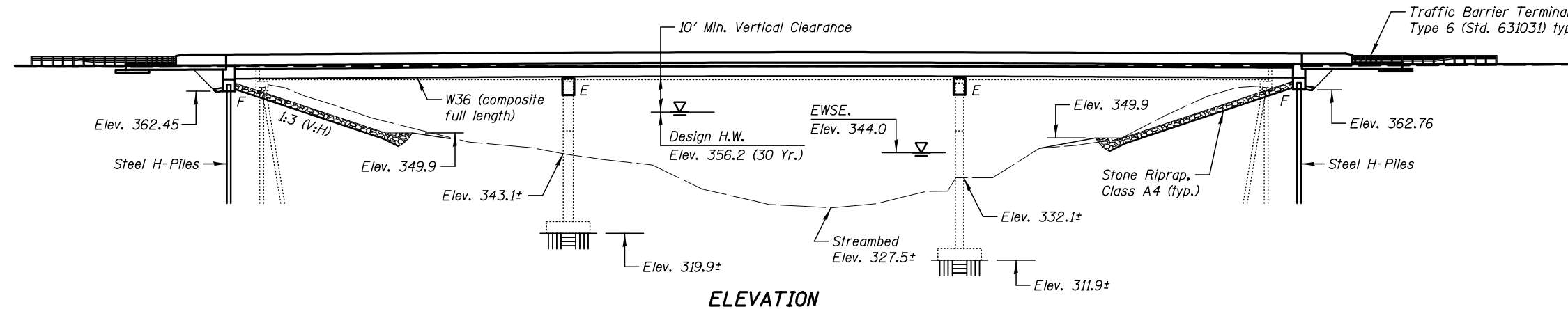
Expires 11-30-2022

Date: 3/26/2021

for drawings
S-01 thru S-31

Notes:

See Sheet S-03 for Sections A-A and B-B.

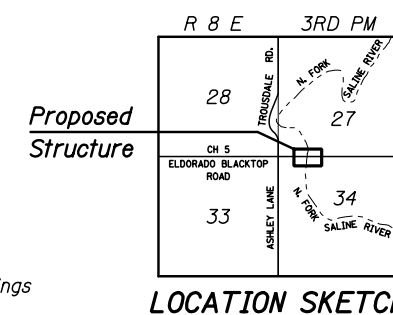


WATERWAY INFORMATION

Existing Overtopping Elev. = 369.94 at Sta. 193+00		Proposed Overtopping Elev. = 370.06 at Sta. 192+75				
Drainage Area = 422.9 sq. mi.						
Flood Event	Freq. Yr.	Q C.F.S.	Opening Ft ²	Nat. H.W.E.	Head - Ft.	Headwater Elev.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	10	14000	3271 3384	353.4	0.1 0.1	353.5 353.5
Base	30	18600	3885 4045	356.0	0.2 0.2	356.2 356.2
Overtopping	100	23600	4313 4483	357.7	0.4 0.3	358.1 358.0
Max. Calc	N/A	N/A	N/A N/A	N/A	N/A N/A	N/A N/A
	500	30800	4798 5007	359.6	0.7 0.7	360.3 360.3

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q100	362.5	330.1	321.4	362.8	8
Q200	362.5	329.6	319.4	362.8	
Design	362.5	319.9	311.9	362.8	
Check	362.5	N/A	N/A	362.8	



Legend

Soil Borings

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 030-3007

SHEET S-01 OF 31 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISIONS
CHECKED - PRD	REVISIONS
DRAWN - TB	REVISIONS
CHECKED - PRD	REVISIONS
SCALE - NONE	
DATE - 4/19/2021	

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 32
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

PLOT DATE = 4/19/2021

GENERAL NOTES

Fasteners shall be ASTM A325 Type 3, mechanically galvanized bolts.
Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.

Calculated weight of Structural Steel = 557,400 lb M270 Grade 50W

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

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8" (0.01 ft.).
Adjustment shall be made either by grinding the surface or by shimming the bearings.

Slipforming of the parapet is not permitted.

SCOPE OF WORK

1. Remove existing superstructure and abutments.
2. Remove and reconstruct pier caps.
3. Construct abutments and superstructure.
4. Seismic retrofit piers.

INDEX OF SHEETS

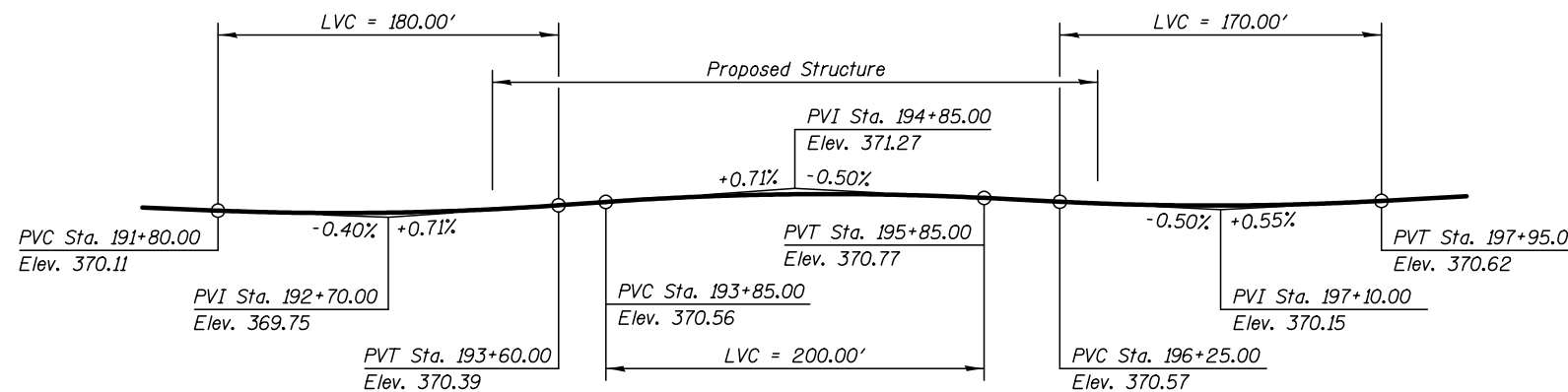
- S-01 General Plan and Elevation
- S-02 General Notes and Total Bill Of Material
- S-03 Slope Wall Details
- S-04 Top of Slab Elevations - Location Plan
- S-05 Top of Slab Elevations
- S-06 Top of Slab Elevations
- S-07 Top of West Approach Slab Elevations
- S-08 Top of East Approach Slab Elevations
- S-09 Deck Plan and Cross Section
- S-10 Parapet Details
- S-11 Deck Diaphragm Details
- S-12 Deck Miscellaneous Details
- S-13 Precast Bridge Approach Slab Plan
- S-14 Precast Bridge Approach Slab Details
- S-15 Precast Bridge Approach Slab Details
- S-16 Preformed Joint Strip Seal
- S-17 Drainage Scupper, DS-33M
- S-18 Framing Plan and Elevation
- S-19 Beam Details
- S-20 Field Splice and Diaphragm Details
- S-21 Bearing Details
- S-22 West Abutment
- S-23 East Abutment
- S-24 Abutment Miscellaneous Details
- S-25 Pier Removal and Repair
- S-26 Pier Reconstruction
- S-27 Pier Reconstruction Details
- S-28 Pier Seismic Retrofit
- S-29 HP Pile Details
- S-30 Soil Boring Log 1
- S-31 Soil Boring Log 2

For Existing Bridge Plans, see Sheets SX-1 thru SX-3 immediately following Sheet S-31.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1976.0	1976.0
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		26.0	26.0
Slope Wall Removal	Sq. Yd.		930.0	930.0
Structure Excavation	Cu. Yd.		248.0	248.0
Concrete Structures	Cu. Yd.	20.0	89.0	109.0
Concrete Superstructure	Cu. Yd.	410.0		410.0
Bridge Deck Grooving	Sq. Yd.	1188.0		1188.0
Protective Coat	Sq. Yd.	1602.0		1602.0
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	3978		3978
Reinforcement Bars, Epoxy Coated	Pound	105360	16200	121560
Mechanical Splicers	Each		72	72
Furnishing Steel Piles HP18X157	Foot		585.0	585.0
Driving Piles	Foot		565.0	565.0
Test Pile Steel HP18X157	Each		2	2
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	64.0		64.0
Elastomeric Bearing Assembly, Type I	Each	12		12
Anchor Bolts, 1"	Each	48		48
Granular Backfill For Structures	Cu. Yd.		110.0	110.0
* Epoxy Crack Injection	Foot		16.0	16.0
Removal of Existing Sub-Structures	Each		2	2
* Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.		25.0	25.0
* Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.		5.0	5.0
Drainage Scuppers, DS-33	Each	12		12
Pipe Underdrains For Structures 4"	Foot		120.0	120.0
Acrylic Coating	Sq. Yd.		164.0	164.0
Fiber Wrap	Sq. Ft.		668.0	668.0
Concrete Wearing Surface, 5"	Sq. Yd.	213.0		213.0
Precast Bridge Approach Slab	Sq. Ft.	1860.0		1860.0

* Quantity includes a contingency (above the amounts shown in the Bill of Material) to account for uncertainties associated with the condition of the existing substructure and the age of the original inspection (2019). Actual repair areas will be determined by the Engineer in the field.



**CH 5 (ELDORADO BLACKTOP RD.) - PROPOSED
PROFILE GRADE LINE**

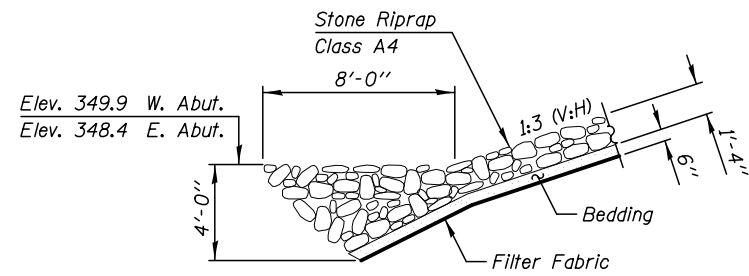
STATION 194+85.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 893 SEC. 14-00080-00-BR
LOADING HL-93
STRUCTURE NO. 030-3007

NAME PLATES
See Std. 515001

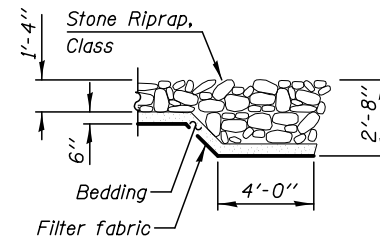
Note
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

PLOT DATE = 4/6/2021

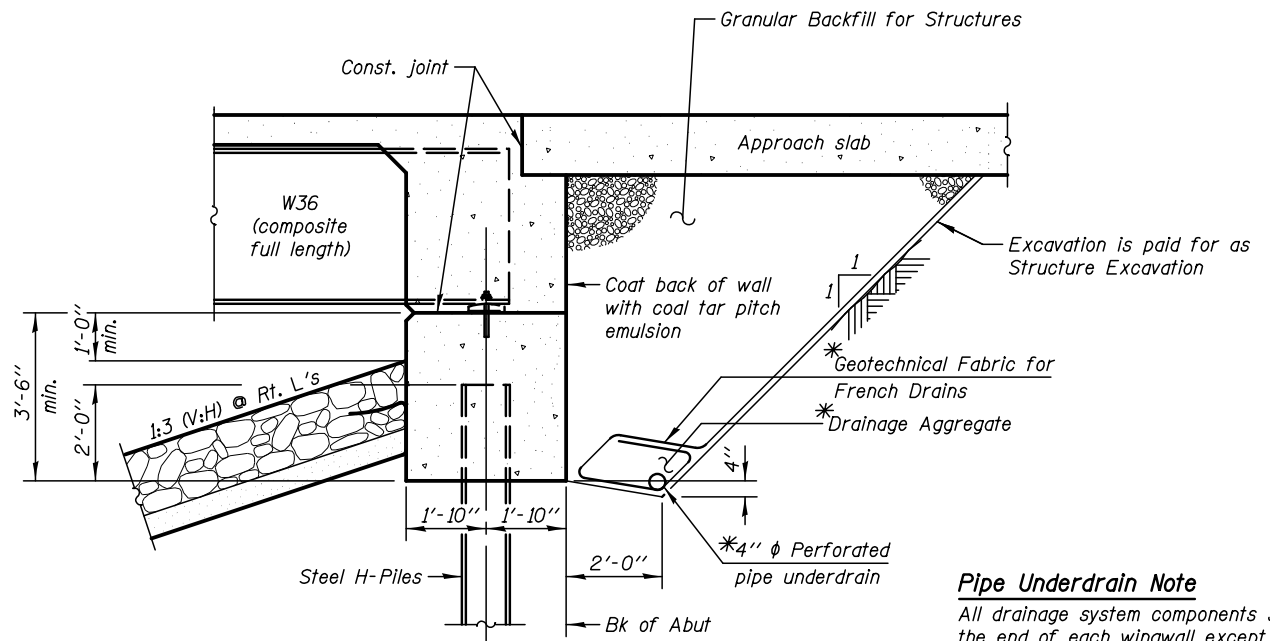
	DESIGNED - TB	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND TOTAL BILL OF MATERIAL STRUCTURE NO. 030-3007	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - PRD	REVISIONS			893	14-00080-00-BR	GALLATIN	92	33
SCALE - NONE	DRAWN - TB	REVISIONS			CONTRACT NO. 99612				
DATE - 4/7/2021	CHECKED - PRD	REVISIONS			ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



SECTION THRU INTEGRAL ABUTMENT

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

Pipe Underdrain 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).

NOTES

Granular Backfill for Structures shall consist of coarse aggregate of grades CA-7, CA-11, or CA-14 as per Article 1004.01 of the Standard Specifications.

Granular Backfill for Structures shall be compacted according to Article 205.06 of the Standard Specifications.

The back face of abutments and wingwalls shall be coated with coal tar pitch emulsion as per Article 1061.02 of the Standard Specifications.

The cost of coal tar pitch emulsion is included in the cost of "Concrete Structures".

BILL OF MATERIAL

Item	Unit	Quantity
Granular Backfill for Structures	Cu. Yd.	110.0
Pipe Underdrains for Structures 4"	Foot	120.0
Stone Riprap, Class A4	Sq. Yd.	1976.0

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

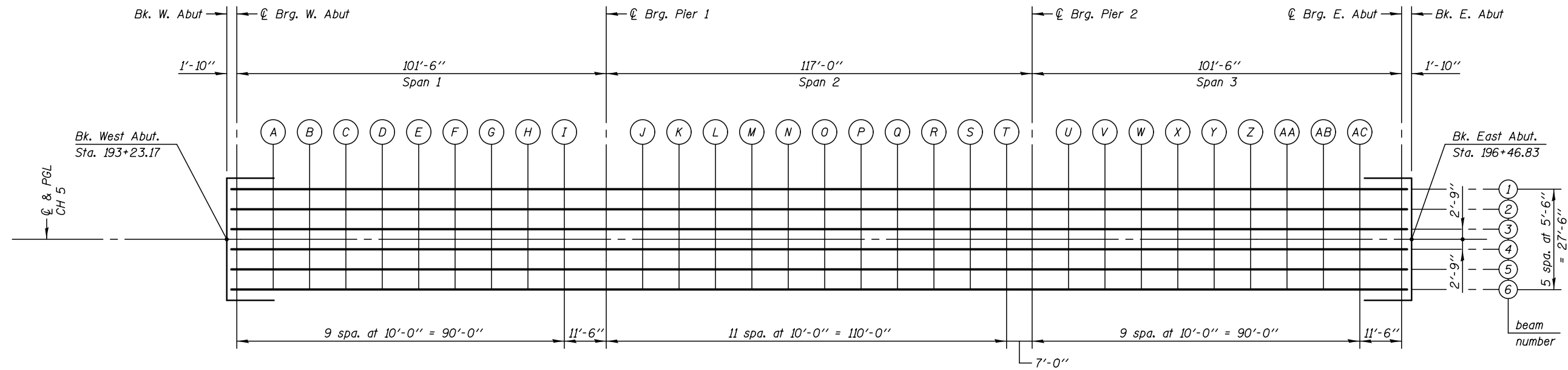
DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION
SCALE - NONE	
DATE - 3/26/2021	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

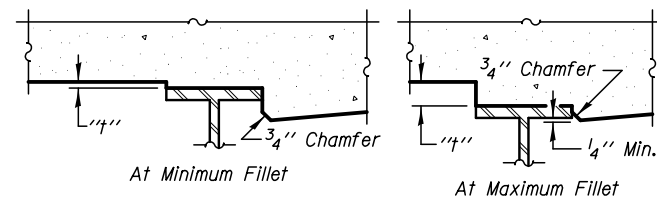
SLOPEWALL DETAILS
STRUCTURE NO. 030-3007

SHEET S-03 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	34
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

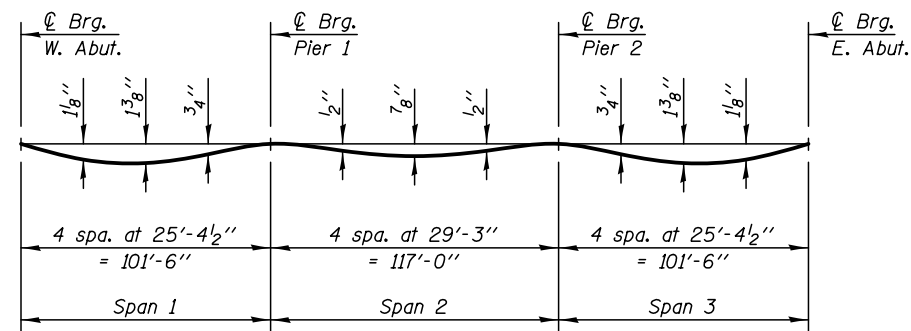


PLAN



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 and on Sheets S-04 thru S-06, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

Note:
The deflections shown are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown in TABLES on Sheets S-04 thru S-06.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	-13.75	369.95	369.95
☉ Brg. W. Abut	193+25.00	-13.75	369.96	369.96
A	193+35.00	-13.75	370.02	370.06
B	193+45.00	-13.75	370.07	370.15
C	193+55.00	-13.75	370.14	370.24
D	193+65.00	-13.75	370.20	370.32
E	193+75.00	-13.75	370.27	370.39
F	193+85.00	-13.75	370.35	370.45
G	193+95.00	-13.75	370.41	370.49
H	194+05.00	-13.75	370.47	370.52
I	194+15.00	-13.75	370.53	370.55
☉ Brg. Pier 1	194+26.50	-13.75	370.59	370.59
J	194+36.50	-13.75	370.63	370.63
K	194+46.50	-13.75	370.67	370.69
L	194+56.50	-13.75	370.70	370.74
M	194+66.50	-13.75	370.72	370.78
N	194+76.50	-13.75	370.74	370.81
O	194+86.50	-13.75	370.75	370.83
P	194+96.50	-13.75	370.76	370.83
Q	195+06.50	-13.75	370.76	370.82
R	195+16.50	-13.75	370.76	370.79
S	195+26.50	-13.75	370.74	370.76
T	195+36.50	-13.75	370.73	370.73
☉ Brg. Pier 2	195+43.50	-13.75	370.71	370.71
U	195+53.50	-13.75	370.68	370.70
V	195+63.50	-13.75	370.65	370.69
W	195+73.50	-13.75	370.61	370.68
X	195+83.50	-13.75	370.56	370.66
Y	195+93.50	-13.75	370.52	370.63
Z	196+03.50	-13.75	370.47	370.59
AA	196+13.50	-13.75	370.42	370.52
AB	196+23.50	-13.75	370.37	370.45
AC	196+33.50	-13.75	370.32	370.37
☉ Brg. E. Abut	196+45.00	-13.75	370.27	370.27
Bk. E. Abut.	196+46.83	-13.75	370.27	370.27

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
SCALE - NONE	REVISION
DATE - 3/26/2021	REVISION

DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS - LOCATION PLAN
STRUCTURE NO. 030-3007

SHEET S-04 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	35
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	-8.25	370.05	370.05
⊕ Brg. W. Abut	193+25.00	-8.25	370.05	370.05
A	193+35.00	-8.25	370.11	370.15
B	193+45.00	-8.25	370.17	370.24
C	193+55.00	-8.25	370.23	370.33
D	193+65.00	-8.25	370.29	370.41
E	193+75.00	-8.25	370.37	370.48
F	193+85.00	-8.25	370.44	370.54
G	193+95.00	-8.25	370.50	370.58
H	194+05.00	-8.25	370.57	370.61
I	194+15.00	-8.25	370.62	370.64
⊕ Brg. Pier 1	194+26.50	-8.25	370.68	370.68
J	194+36.50	-8.25	370.72	370.72
K	194+46.50	-8.25	370.76	370.78
L	194+56.50	-8.25	370.79	370.83
M	194+66.50	-8.25	370.81	370.87
N	194+76.50	-8.25	370.83	370.90
O	194+86.50	-8.25	370.85	370.92
P	194+96.50	-8.25	370.85	370.92
Q	195+06.50	-8.25	370.85	370.91
R	195+16.50	-8.25	370.85	370.88
S	195+26.50	-8.25	370.84	370.85
T	195+36.50	-8.25	370.82	370.82
⊕ Brg. Pier 2	195+43.50	-8.25	370.80	370.80
U	195+53.50	-8.25	370.77	370.79
V	195+63.50	-8.25	370.74	370.78
W	195+73.50	-8.25	370.70	370.77
X	195+83.50	-8.25	370.65	370.75
Y	195+93.50	-8.25	370.61	370.72
Z	196+03.50	-8.25	370.56	370.68
AA	196+13.50	-8.25	370.51	370.62
AB	196+23.50	-8.25	370.46	370.54
AC	196+33.50	-8.25	370.41	370.46
⊕ Brg. E. Abut	196+45.00	-8.25	370.36	370.36
Bk. E. Abut.	196+46.83	-8.25	370.36	370.36

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	-2.75	370.13	370.13
⊕ Brg. W. Abut	193+25.00	-2.75	370.14	370.14
A	193+35.00	-2.75	370.19	370.23
B	193+45.00	-2.75	370.25	370.33
C	193+55.00	-2.75	370.31	370.42
D	193+65.00	-2.75	370.38	370.49
E	193+75.00	-2.75	370.45	370.56
F	193+85.00	-2.75	370.52	370.62
G	193+95.00	-2.75	370.59	370.66
H	194+05.00	-2.75	370.65	370.70
I	194+15.00	-2.75	370.70	370.72
⊕ Brg. Pier 1	194+26.50	-2.75	370.76	370.76
J	194+36.50	-2.75	370.80	370.81
K	194+46.50	-2.75	370.84	370.86
L	194+56.50	-2.75	370.87	370.91
M	194+66.50	-2.75	370.90	370.96
N	194+76.50	-2.75	370.92	370.99
O	194+86.50	-2.75	370.93	371.00
P	194+96.50	-2.75	370.93	371.00
Q	195+06.50	-2.75	370.93	370.99
R	195+16.50	-2.75	370.93	370.96
S	195+26.50	-2.75	370.92	370.93
T	195+36.50	-2.75	370.90	370.90
⊕ Brg. Pier 2	195+43.50	-2.75	370.88	370.88
U	195+53.50	-2.75	370.86	370.87
V	195+63.50	-2.75	370.82	370.86
W	195+73.50	-2.75	370.78	370.85
X	195+83.50	-2.75	370.74	370.83
Y	195+93.50	-2.75	370.69	370.81
Z	196+03.50	-2.75	370.64	370.76
AA	196+13.50	-2.75	370.59	370.70
AB	196+23.50	-2.75	370.54	370.62
AC	196+33.50	-2.75	370.49	370.54
⊕ Brg. E. Abut	196+45.00	-2.75	370.45	370.45
Bk. E. Abut.	196+46.83	-2.75	370.44	370.44

P.G. LINE AND ⊕ CH 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	0.00	370.17	370.17
⊕ Brg. W. Abut	193+25.00	0.00	370.18	370.18
A	193+35.00	0.00	370.23	370.27
B	193+45.00	0.00	370.29	370.37
C	193+55.00	0.00	370.35	370.46
D	193+65.00	0.00	370.42	370.54
E	193+75.00	0.00	370.49	370.61
F	193+85.00	0.00	370.56	370.66
G	193+95.00	0.00	370.63	370.70
H	194+05.00	0.00	370.69	370.74
I	194+15.00	0.00	370.75	370.76
⊕ Brg. Pier 1	194+26.50	0.00	370.80	370.80
J	194+36.50	0.00	370.85	370.85
K	194+46.50	0.00	370.88	370.90
L	194+56.50	0.00	370.91	370.95
M	194+66.50	0.00	370.94	371.00
N	194+76.50	0.00	370.96	371.03
O	194+86.50	0.00	370.97	371.04
P	194+96.50	0.00	370.98	371.04
Q	195+06.50	0.00	370.98	371.03
R	195+16.50	0.00	370.97	371.00
S	195+26.50	0.00	370.96	370.97
T	195+36.50	0.00	370.94	370.94
⊕ Brg. Pier 2	195+43.50	0.00	370.93	370.93
U	195+53.50	0.00	370.90	370.91
V	195+63.50	0.00	370.86	370.91
W	195+73.50	0.00	370.82	370.90
X	195+83.50	0.00	370.78	370.88
Y	195+93.50	0.00	370.73	370.85
Z	196+03.50	0.00	370.68	370.80
AA	196+13.50	0.00	370.63	370.74
AB	196+23.50	0.00	370.58	370.66
AC	196+33.50	0.00	370.53	370.58
⊕ Brg. E. Abut	196+45.00	0.00	370.49	370.49
Bk. E. Abut.	196+46.83	0.00	370.48	370.48

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISED
CHECKED - PRD	REVISED
SCALE - NONE	DRAWN - TB
DATE - 3/26/2021	CHECKED - PRD
	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 030-3007**

SHEET S-05 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	36
CONTRACT NO. 99612				
		ILLINOIS	FED. AID PROJECT	

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	2.75	370.13	370.13
⊕ Brg. W. Abut	193+25.00	2.75	370.14	370.14
A	193+35.00	2.75	370.19	370.23
B	193+45.00	2.75	370.25	370.33
C	193+55.00	2.75	370.31	370.42
D	193+65.00	2.75	370.38	370.49
E	193+75.00	2.75	370.45	370.56
F	193+85.00	2.75	370.52	370.62
G	193+95.00	2.75	370.59	370.66
H	194+05.00	2.75	370.65	370.70
I	194+15.00	2.75	370.70	370.72
⊕ Brg. Pier 1	194+26.50	2.75	370.76	370.76
J	194+36.50	2.75	370.80	370.81
K	194+46.50	2.75	370.84	370.86
L	194+56.50	2.75	370.87	370.91
M	194+66.50	2.75	370.90	370.96
N	194+76.50	2.75	370.92	370.99
O	194+86.50	2.75	370.93	371.00
P	194+96.50	2.75	370.93	371.00
Q	195+06.50	2.75	370.93	370.99
R	195+16.50	2.75	370.93	370.96
S	195+26.50	2.75	370.92	370.93
T	195+36.50	2.75	370.90	370.90
⊕ Brg. Pier 2	195+43.50	2.75	370.88	370.88
U	195+53.50	2.75	370.86	370.87
V	195+63.50	2.75	370.82	370.86
W	195+73.50	2.75	370.78	370.85
X	195+83.50	2.75	370.74	370.83
Y	195+93.50	2.75	370.69	370.81
Z	196+03.50	2.75	370.64	370.76
AA	196+13.50	2.75	370.59	370.70
AB	196+23.50	2.75	370.54	370.62
AC	196+33.50	2.75	370.49	370.54
⊕ Brg. E. Abut	196+45.00	2.75	370.45	370.45
Bk. E. Abut.	196+46.83	2.75	370.44	370.44

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	8.25	370.05	370.05
⊕ Brg. W. Abut	193+25.00	8.25	370.05	370.05
A	193+35.00	8.25	370.11	370.15
B	193+45.00	8.25	370.17	370.24
C	193+55.00	8.25	370.23	370.33
D	193+65.00	8.25	370.29	370.41
E	193+75.00	8.25	370.37	370.48
F	193+85.00	8.25	370.44	370.54
G	193+95.00	8.25	370.50	370.58
H	194+05.00	8.25	370.57	370.61
I	194+15.00	8.25	370.62	370.64
⊕ Brg. Pier 1	194+26.50	8.25	370.68	370.68
J	194+36.50	8.25	370.72	370.72
K	194+46.50	8.25	370.76	370.78
L	194+56.50	8.25	370.79	370.83
M	194+66.50	8.25	370.81	370.87
N	194+76.50	8.25	370.83	370.90
O	194+86.50	8.25	370.85	370.92
P	194+96.50	8.25	370.85	370.92
Q	195+06.50	8.25	370.85	370.91
R	195+16.50	8.25	370.85	370.88
S	195+26.50	8.25	370.84	370.85
T	195+36.50	8.25	370.82	370.82
⊕ Brg. Pier 2	195+43.50	8.25	370.80	370.80
U	195+53.50	8.25	370.77	370.79
V	195+63.50	8.25	370.74	370.78
W	195+73.50	8.25	370.70	370.77
X	195+83.50	8.25	370.65	370.75
Y	195+93.50	8.25	370.61	370.72
Z	196+03.50	8.25	370.56	370.68
AA	196+13.50	8.25	370.51	370.62
AB	196+23.50	8.25	370.46	370.54
AC	196+33.50	8.25	370.41	370.46
⊕ Brg. E. Abut	196+45.00	8.25	370.36	370.36
Bk. E. Abut.	196+46.83	8.25	370.36	370.36

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	193+23.17	13.75	369.95	369.95
⊕ Brg. W. Abut	193+25.00	13.75	369.96	369.96
A	193+35.00	13.75	370.02	370.06
B	193+45.00	13.75	370.07	370.15
C	193+55.00	13.75	370.14	370.24
D	193+65.00	13.75	370.20	370.32
E	193+75.00	13.75	370.27	370.39
F	193+85.00	13.75	370.35	370.45
G	193+95.00	13.75	370.41	370.49
H	194+05.00	13.75	370.47	370.52
I	194+15.00	13.75	370.53	370.55
⊕ Brg. Pier 1	194+26.50	13.75	370.59	370.59
J	194+36.50	13.75	370.63	370.63
K	194+46.50	13.75	370.67	370.69
L	194+56.50	13.75	370.70	370.74
M	194+66.50	13.75	370.72	370.78
N	194+76.50	13.75	370.74	370.81
O	194+86.50	13.75	370.75	370.83
P	194+96.50	13.75	370.76	370.83
Q	195+06.50	13.75	370.76	370.82
R	195+16.50	13.75	370.76	370.79
S	195+26.50	13.75	370.74	370.76
T	195+36.50	13.75	370.73	370.73
⊕ Brg. Pier 2	195+43.50	13.75	370.71	370.71
U	195+53.50	13.75	370.68	370.70
V	195+63.50	13.75	370.65	370.69
W	195+73.50	13.75	370.61	370.68
X	195+83.50	13.75	370.56	370.66
Y	195+93.50	13.75	370.52	370.63
Z	196+03.50	13.75	370.47	370.59
AA	196+13.50	13.75	370.42	370.52
AB	196+23.50	13.75	370.37	370.45
AC	196+33.50	13.75	370.32	370.37
⊕ Brg. E. Abut	196+45.00	13.75	370.27	370.27
Bk. E. Abut.	196+46.83	13.75	370.27	370.27

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISED
CHECKED - PRD	REVISED
SCALE - NONE	REVISED
DATE - 3/26/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 030-3007

SHEET S-06 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	37
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		

NORTH EDGE OF SHOULDER

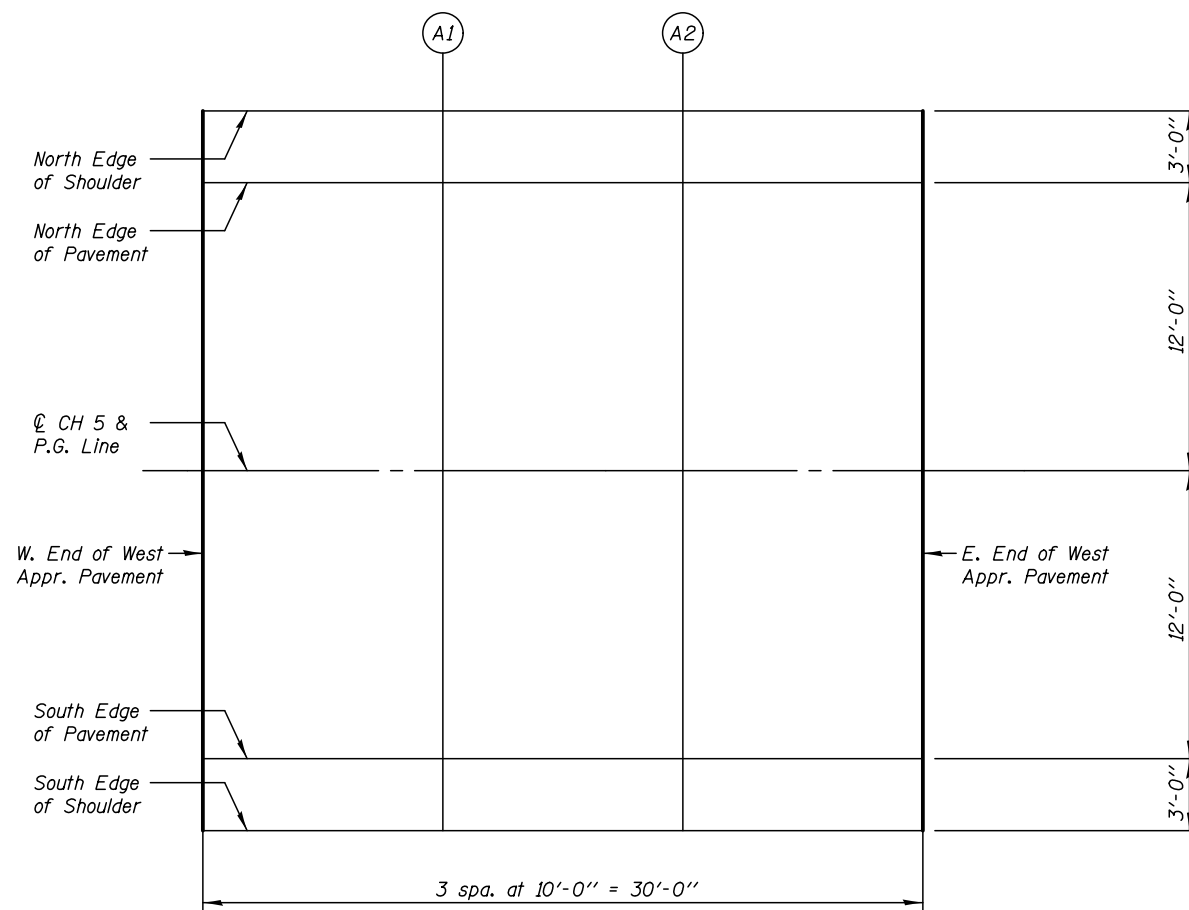
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	192+94.17	-15.00	369.82
A1	193+04.17	-15.00	369.85
A2	193+14.17	-15.00	369.89
E. End West Appr. Pav't	193+24.17	-15.00	369.93

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	192+94.17	-12.00	369.88
A1	193+04.17	-12.00	369.91
A2	193+14.17	-12.00	369.95
E. End West Appr. Pav't	193+24.17	-12.00	369.99

☉ CH 5 AND P.G. LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	192+94.17	0.00	370.06
A1	193+04.17	0.00	370.09
A2	193+14.17	0.00	370.13
E. End West Appr. Pav't	193+24.17	0.00	370.17



PLAN
West Approach



SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	192+94.17	12.00	369.88
A1	193+04.17	12.00	369.91
A2	193+14.17	12.00	369.95
E. End West Appr. Pav't	193+24.17	12.00	369.99

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	192+94.17	15.00	369.82
A1	193+04.17	15.00	369.85
A2	193+14.17	15.00	369.89
E. End West Appr. Pav't	193+24.17	15.00	369.93

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISED
CHECKED - PRD	REVISED
DRAWN - TB	REVISED
CHECKED - PRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 030-3007

SHEET S-07 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	38
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 99612				

NORTH EDGE OF SHOULDER

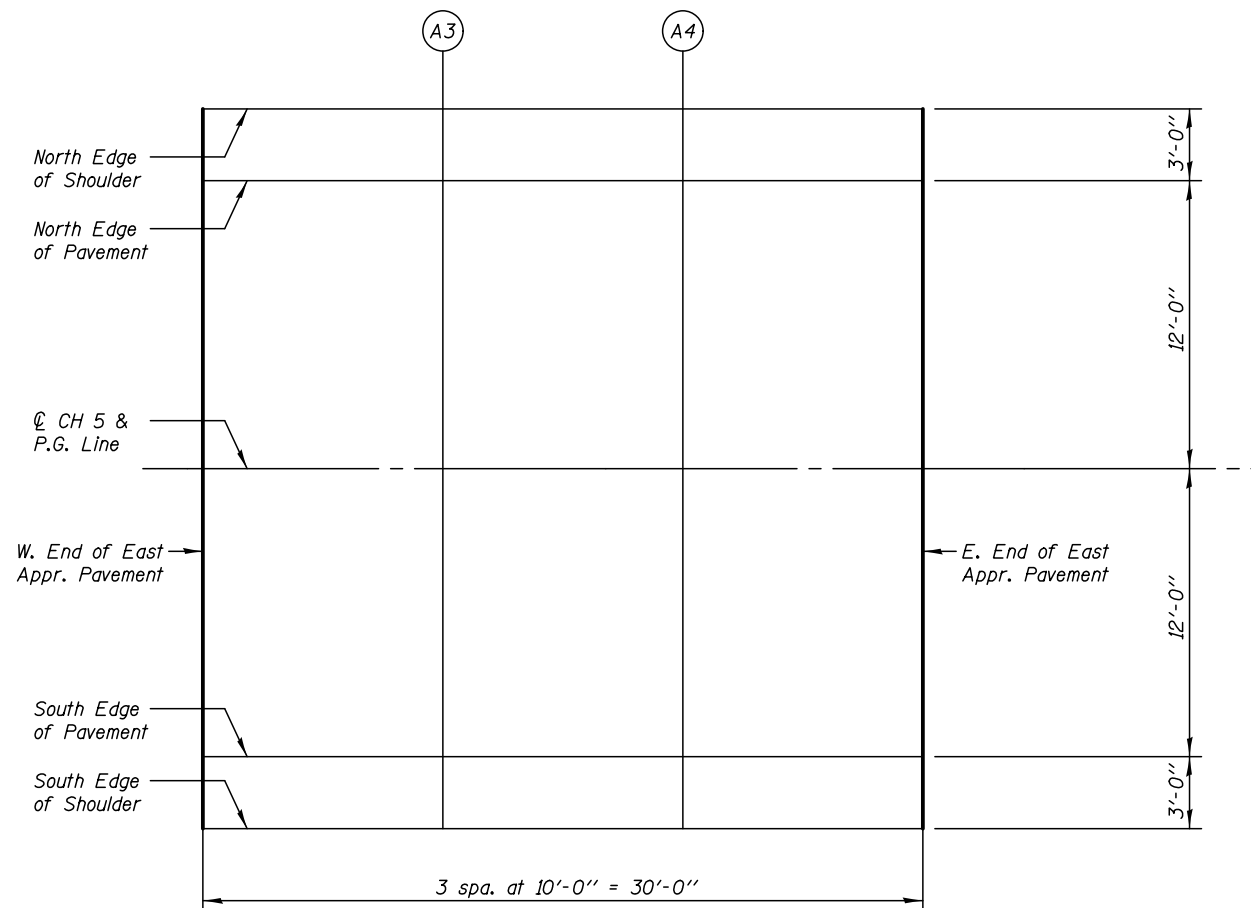
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	196+45.83	-15.00	370.24
A3	196+55.83	-15.00	370.21
A4	196+65.83	-15.00	370.18
E. End East Appr. Pav't	196+75.83	-15.00	370.16

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	196+45.83	-12.00	370.30
A3	196+55.83	-12.00	370.27
A4	196+65.83	-12.00	370.24
E. End East Appr. Pav't	196+75.83	-12.00	370.22

☉ CH 5 AND P.G. LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	196+45.83	0.00	370.48
A3	196+55.83	0.00	370.45
A4	196+65.83	0.00	370.42
E. End East Appr. Pav't	196+75.83	0.00	370.40



PLAN
East Approach

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	196+45.83	12.00	370.30
A3	196+55.83	12.00	370.27
A4	196+65.83	12.00	370.24
E. End East Appr. Pav't	196+75.83	12.00	370.22

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	196+45.83	15.00	370.24
A3	196+55.83	15.00	370.21
A4	196+65.83	15.00	370.18
E. End East Appr. Pav't	196+75.83	15.00	370.16

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISIONS
CHECKED - PRD	REVISIONS
DRAWN - TB	REVISIONS
CHECKED - PRD	REVISIONS
SCALE - NONE	
DATE - 3/26/2021	

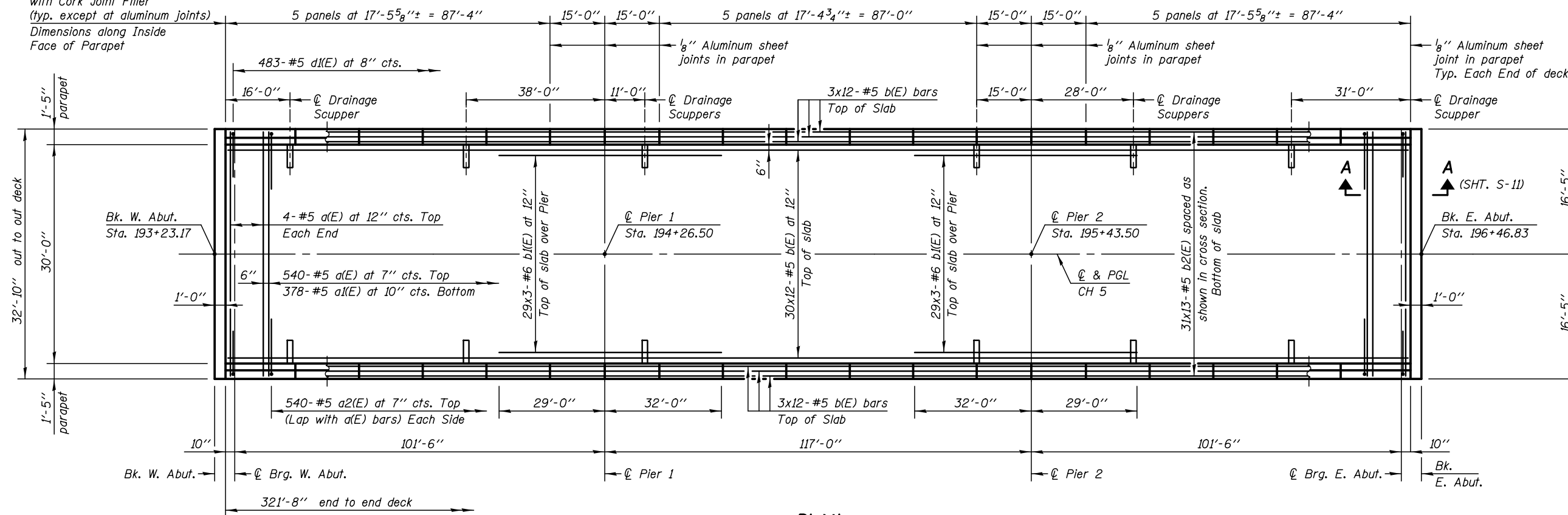
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 030-3007

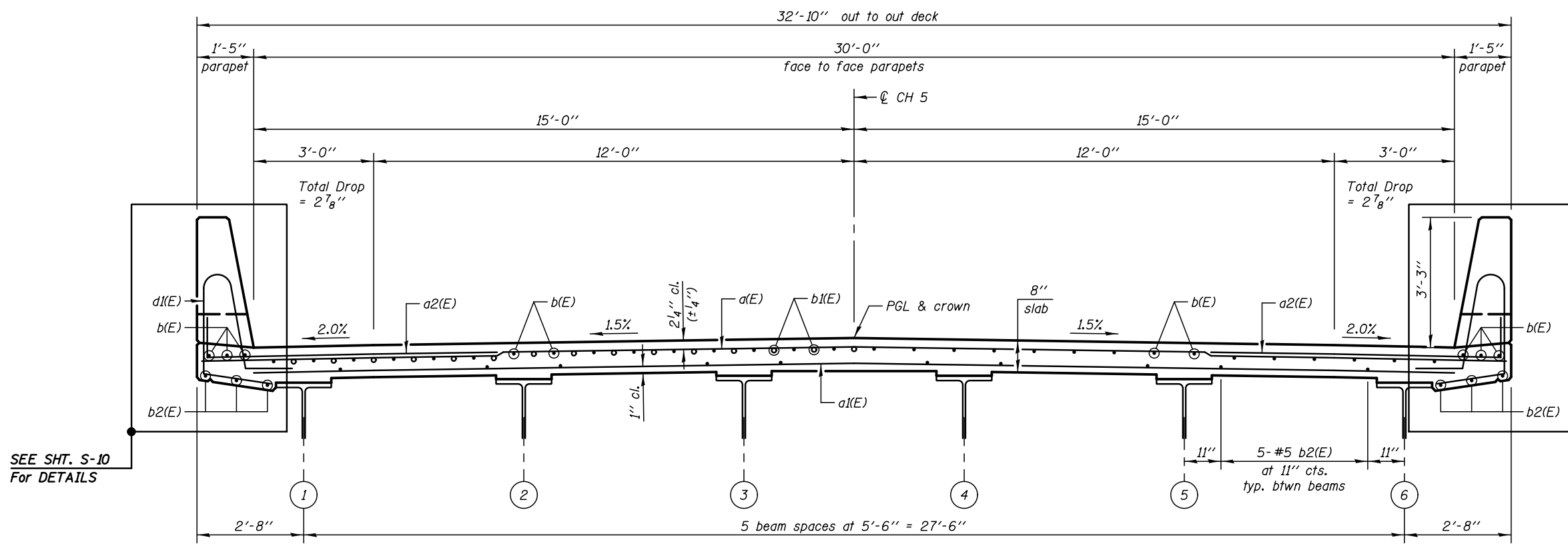
SHEET S-08 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	39
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 99612				

Construction Joints in Parapet
with Cork Joint Filler
(typ. except at aluminum joints)
Dimensions along Inside
Face of Parapet



PLAN



Notes:
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line
See Sheet S-10 for Parapet Details
See Sheet S-11 for Deck Diaphragm Details
See Sheet S-12 for Deck Misc. Details and Bill of Material
See Sheet S-17 for Drainage Scupper Details

MIN. BAR LAPS:
#5 = 3'-6"
#6 = 4'-10"

PLOT DATE = 4/6/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISIONS
CHECKED - PRD	REVISIONS
SCALE - NONE	REVISIONS
DATE - 4/7/2021	REVISIONS
DRAWN - TB	REVISIONS
CHECKED - PRD	REVISIONS

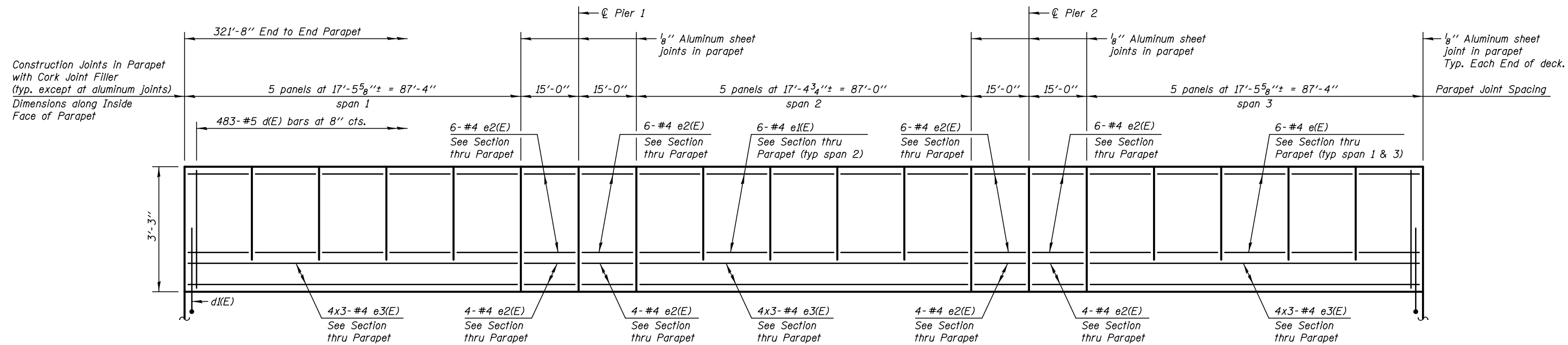
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN AND CROSS SECTION
STRUCTURE NO. 030-3007

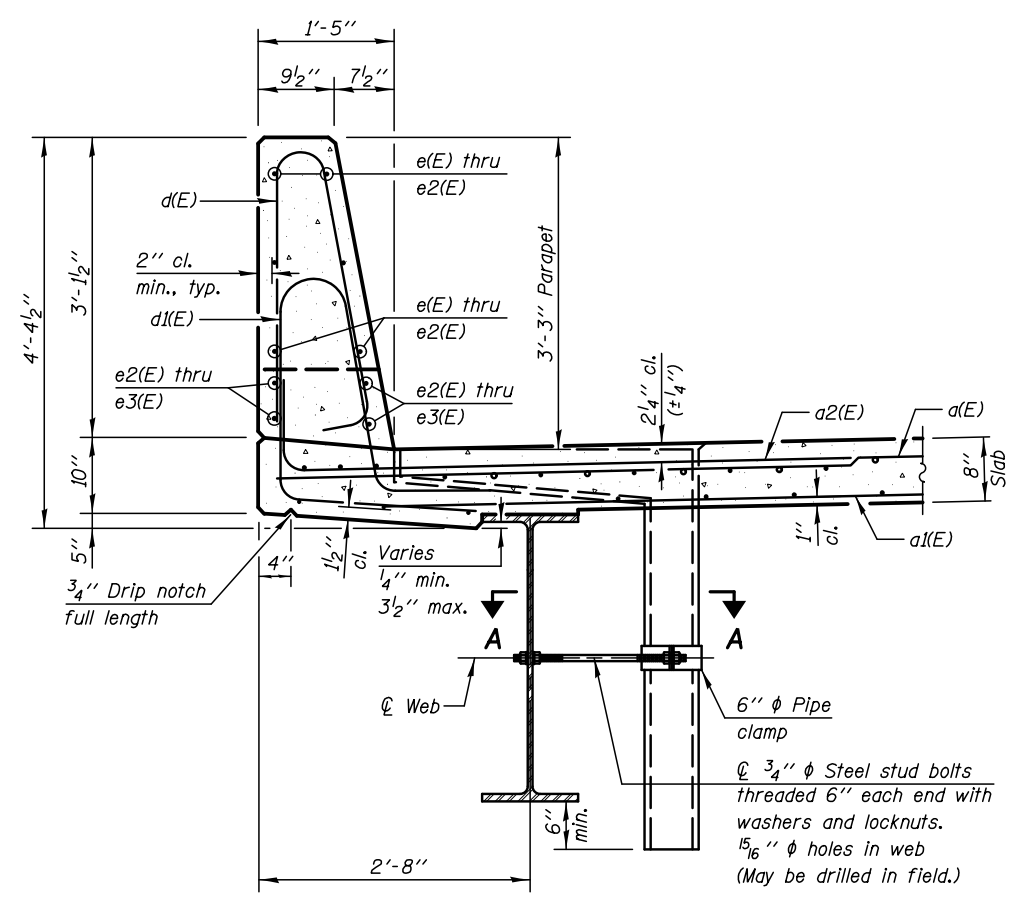
SHEET S-09 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	40
CONTRACT NO. 99612				

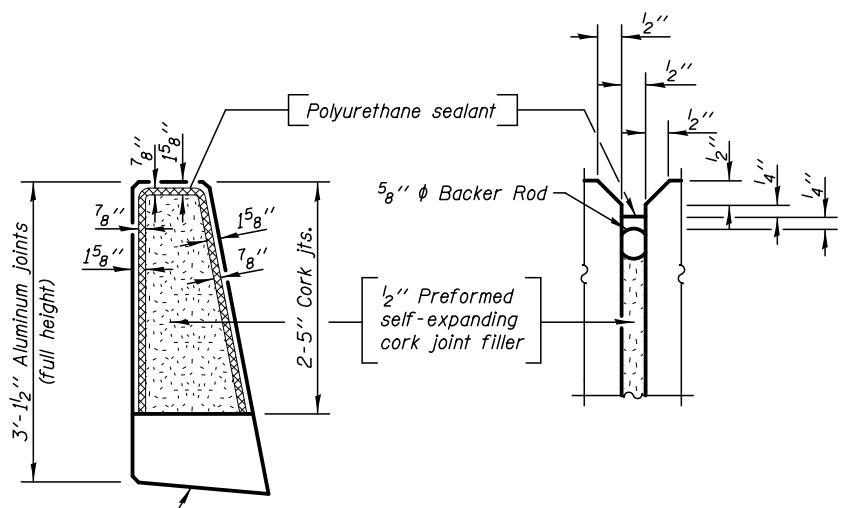
ILLINOIS FED. AID PROJECT



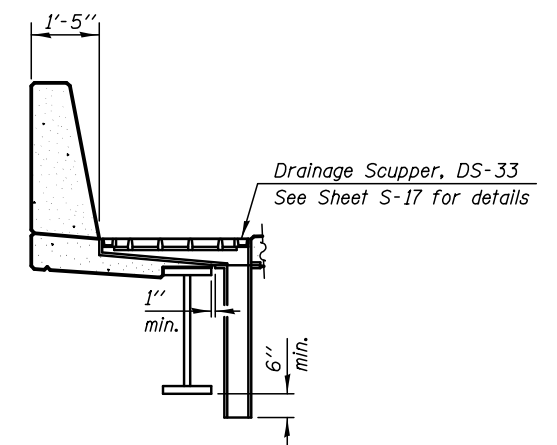
INSIDE ELEVATION OF PARAPET



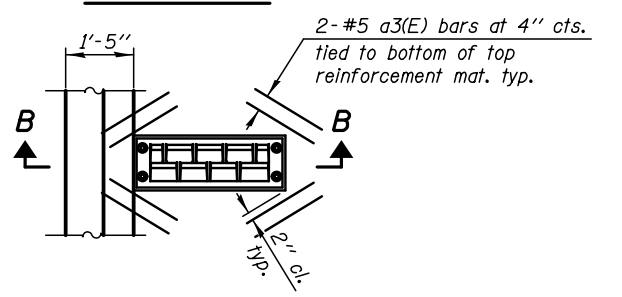
SECTION THRU PARAPET



PARAPET JOINT DETAILS

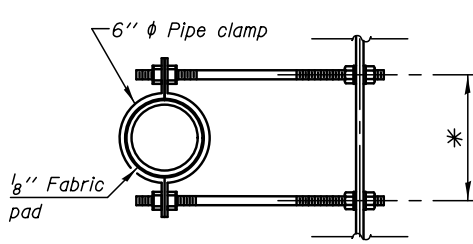


SECTION B-B



PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.



SECTION A-A

*Dimension as required by pipe clamp

Notes:

Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with "Drainage Scupper, DS33".

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.

See Sheet S-12 for Deck Misc. Details and Bill of Materials.

SCUPPER DETAIL

MIN. BAR LAPS

(Parapet)
#4 = 2'-5"

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
SCALE - NONE	REVISION
DATE - 3/26/2021	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION

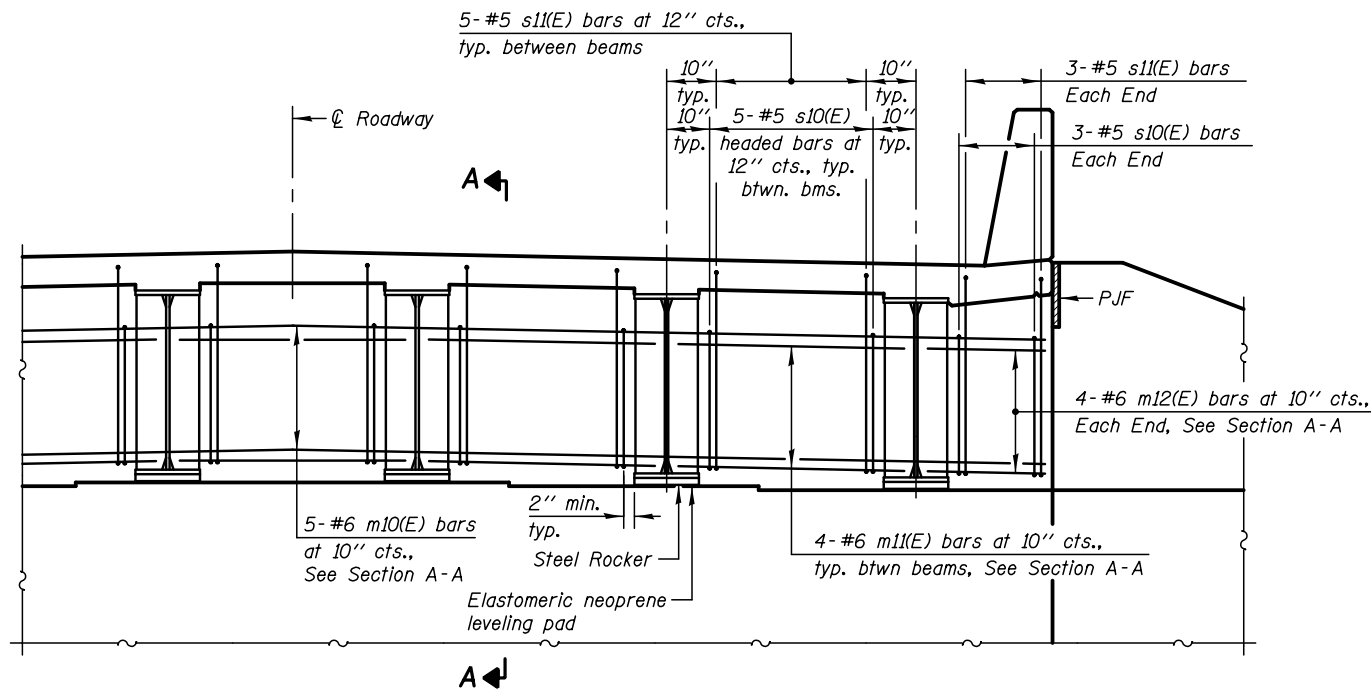
DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

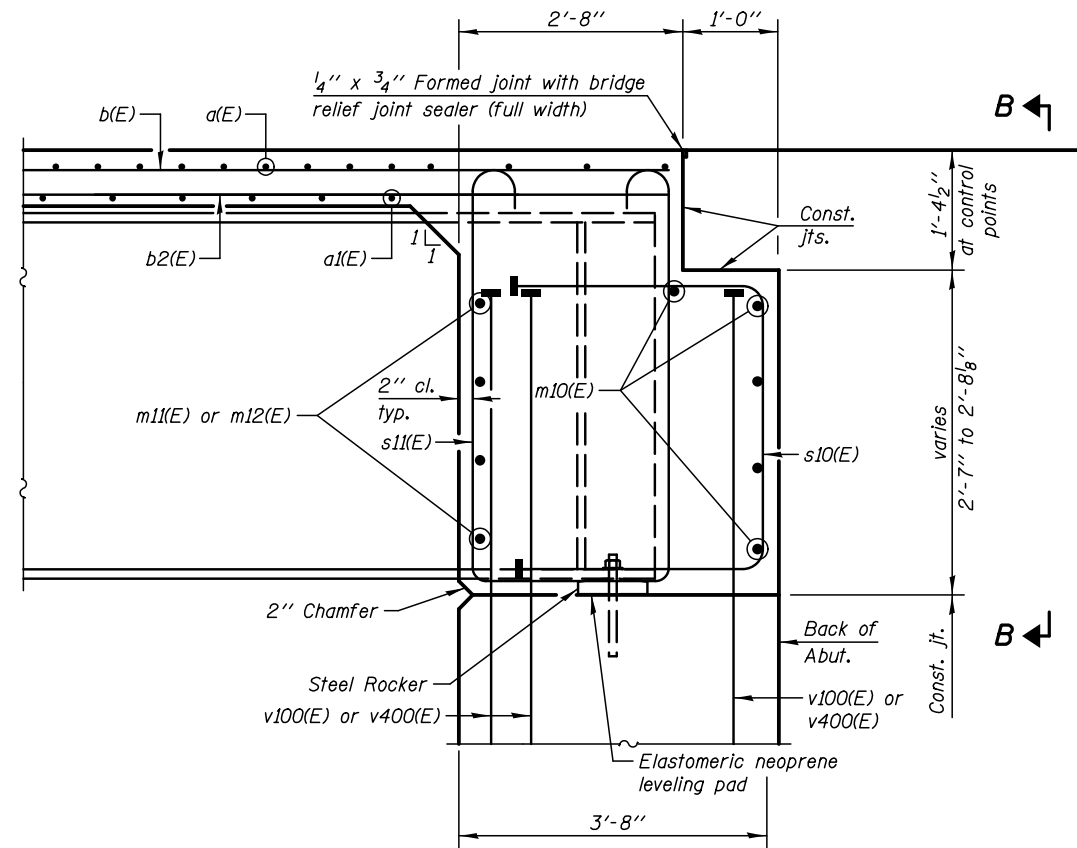
PARAPET DETAILS
STRUCTURE NO. 030-3007

SHEET S-10 OF 31 SHEETS

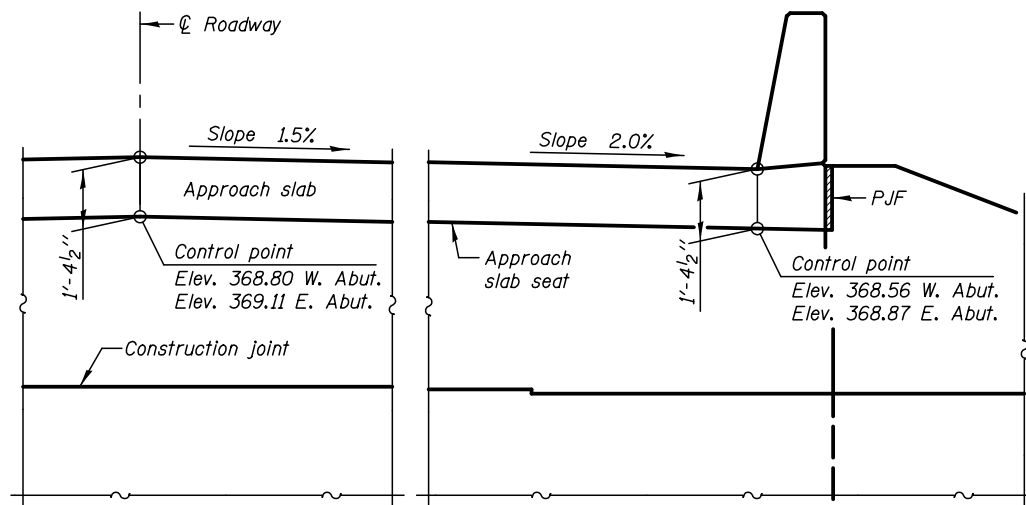
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	41
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



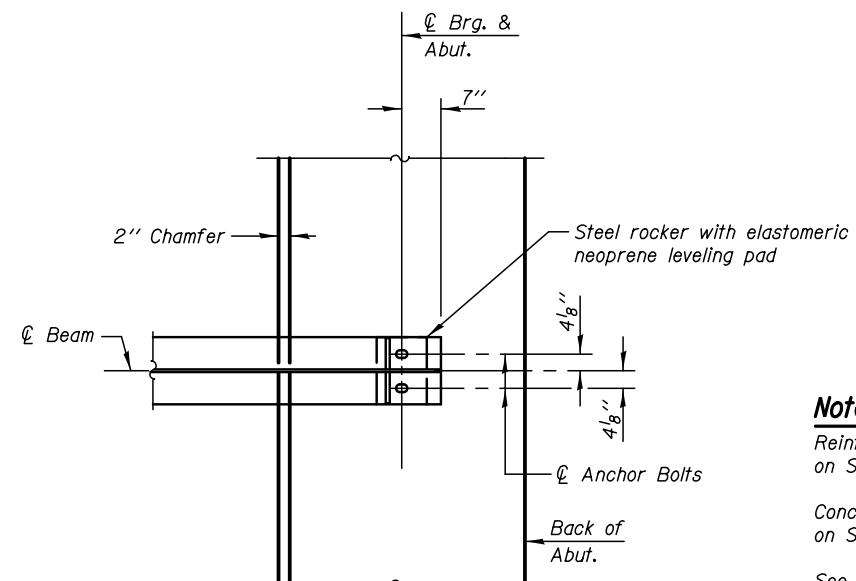
DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A



VIEW B-B



PARTIAL PLAN AT ABUTMENT

(Showing bottom flange of beam)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on Sheet S-12.

Concrete in diaphragm is included with Concrete Superstructure on Sheet S-12.

See Sheet S-21 for bearing details.

See Sheet S-12 for details of bars s10(E) and s11(E).

The approach slab seat shall have a constant slope determined from the control points shown.

PLOT DATE = 4/6/2021

KNIGHT
Engineers & Architects

DESIGNED -	TB	REVISED
CHECKED -	PRD	REVISED
DRAWN -	TB	REVISED
CHECKED -	PRD	REVISED
SCALE -	NONE	
DATE -	4/7/2021	

DESIGNED -	TB	REVISED
CHECKED -	PRD	REVISED
DRAWN -	TB	REVISED
CHECKED -	PRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

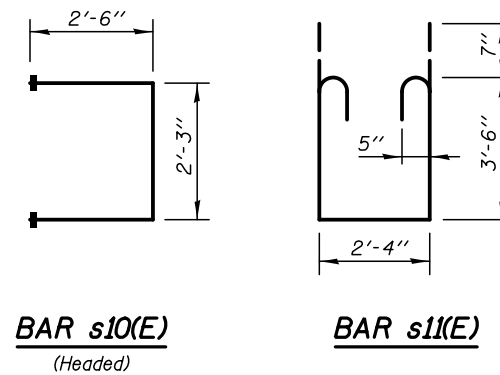
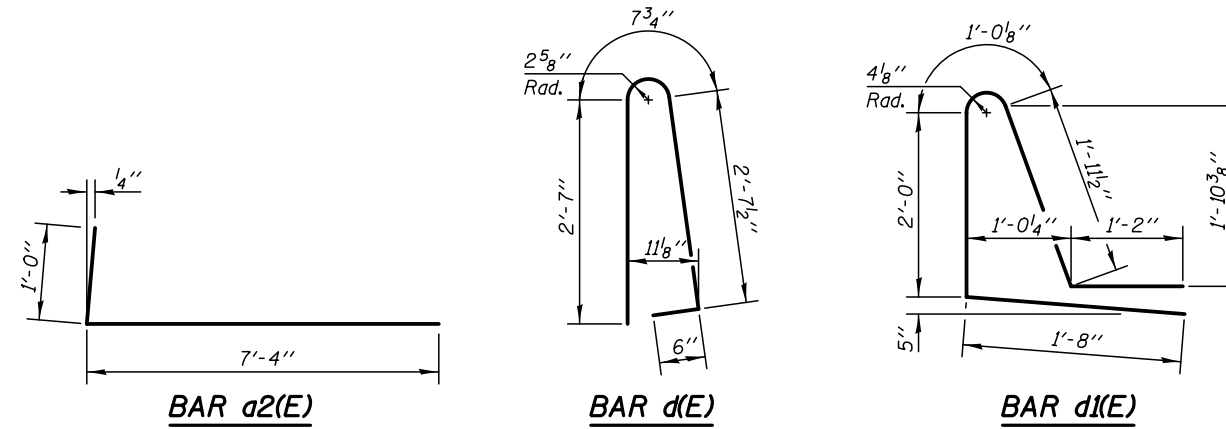
DECK DIAPHRAGM DETAILS
STRUCTURE NO. 030-3007

SHEET S-11 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	42
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	548	#5	32'-6"	▬
a1(E)	378	#5	30'-6"	▬
a2(E)	1080	#6	8'-4"	└
a3(E)	96	#5	2'-0"	▬
b(E)	432	#5	30'-0"	▬
b1(E)	174	#6	23'-9"	▬
b2(E)	403	#5	28'-0"	▬
d(E)	966	#5	6'-5"	└
d1(E)	966	#5	7'-10"	└
e(E)	120	#4	17'-1"	▬
e1(E)	60	#4	17'-0"	▬
e2(E)	80	#4	14'-8"	▬
e3(E)	72	#4	30'-9"	▬
m10(E)	10	#6	32'-6"	▬
m11(E)	40	#6	5'-0"	▬
m12(E)	16	#6	2'-3"	▬
s10(E)	62	#5	7'-3"	▭
s11(E)	62	#5	10'-6"	▭
Reinforcement Bars, Epoxy Coated			Pound	96480
Concrete Superstructure			Cu. Yd.	402.0
Bridge Deck Grooving			Sq. Yd.	1001.0
Protective Coat			Sq. Yd.	1366.0



Notes:

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.

PLOT DATE = 4/6/2021



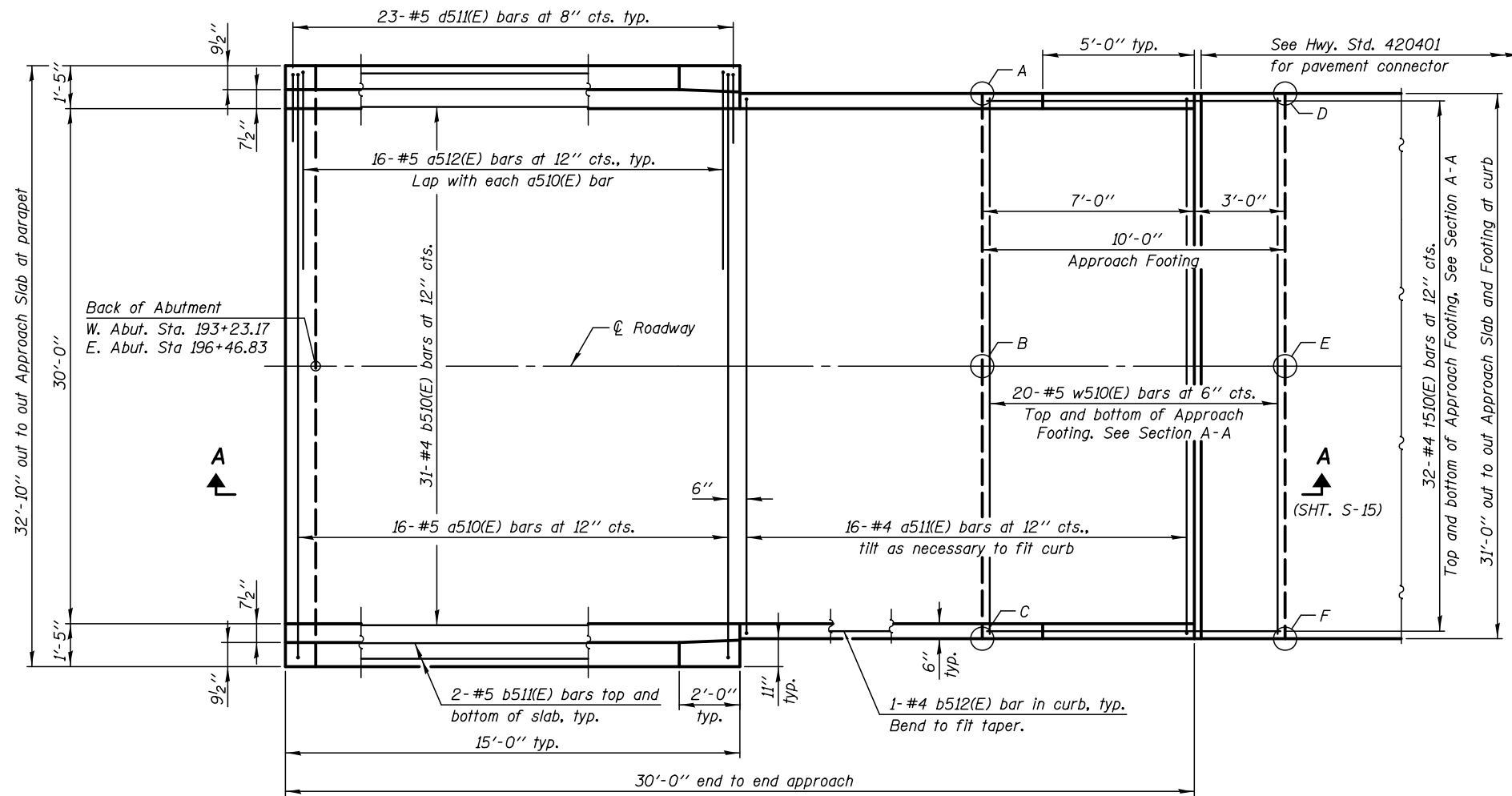
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CHECKED - PRD	REVISED
SCALE - NONE	REVISED
DATE - 4/7/2021	REVISED
DRAWN - TB	REVISED
CHECKED - PRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

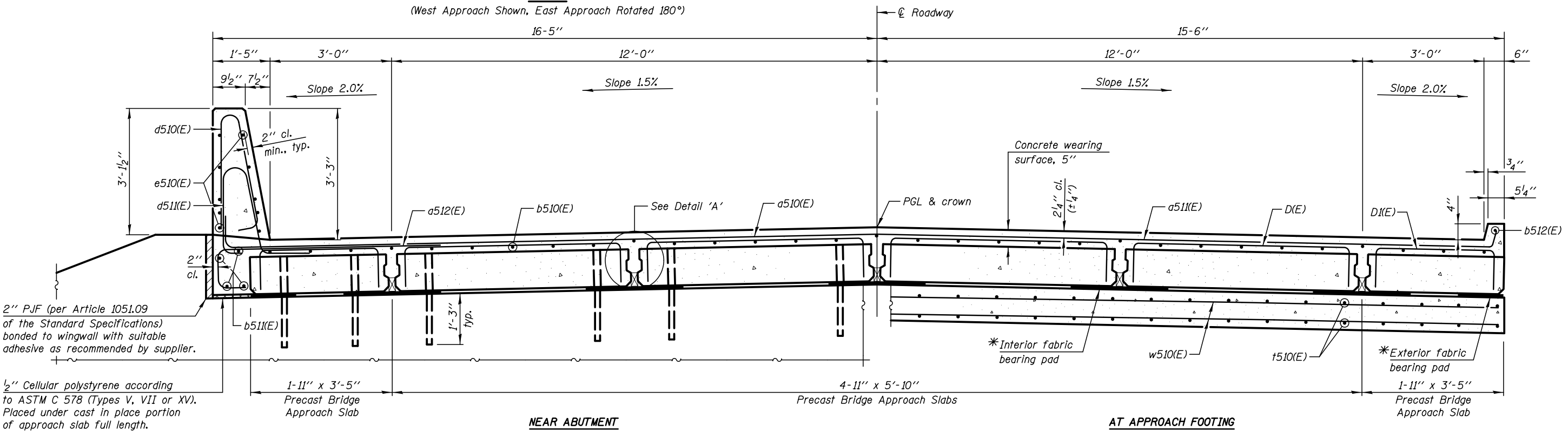
DECK MISCELLANEOUS DETAILS
STRUCTURE NO. 030-3007

SHEET S-12 OF 31 SHEETS

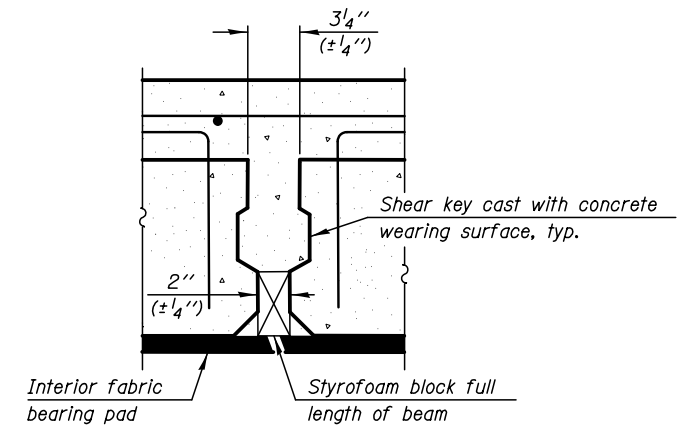
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	43
ILLINOIS			CONTRACT NO. 99612	
FED. AID PROJECT				



PLAN
(West Approach Shown, East Approach Rotated 180°)



CROSS SECTION
(Looking East or West)



DETAIL 'A'

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

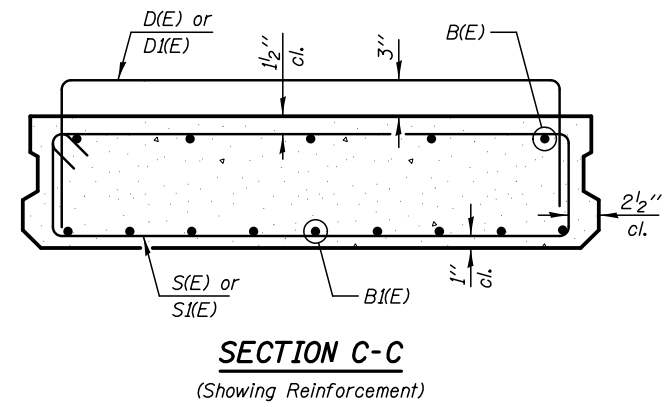
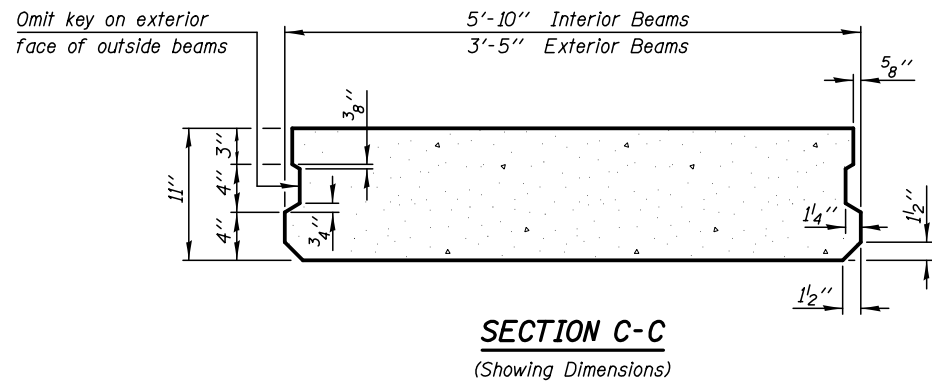
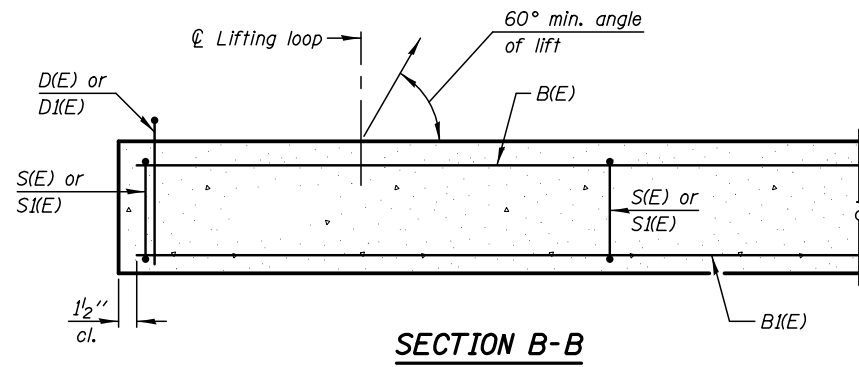
Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	368.46	367.63	368.80	367.97
B	368.71	367.88	369.05	368.22
C	368.46	367.63	368.80	367.97
D	368.43	367.60	368.78	367.95
E	368.68	367.85	369.03	368.20
F	368.43	367.60	368.78	367.95

*Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.

Notes:
See Sheet S-15 for Section A-A.

PLOT DATE = 3/26/2021

KNIGHT Engineers & Architects	DESIGNED - TB	REVISION	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST BRIDGE APPROACH SLAB PLAN STRUCTURE NO. 030-3007	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - PRD	REVISION			893	14-00080-00-BR	GALLATIN	92	44
	SCALE - NONE	REVISION			CONTRACT NO. 99612				
DATE - 3/26/2021	CHECKED - PRD	REVISION	SHEET S-13 OF 31 SHEETS		ILLINOIS FED. AID PROJECT				



NOTES

The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for "Precast Bridge Approach Slab".

Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.

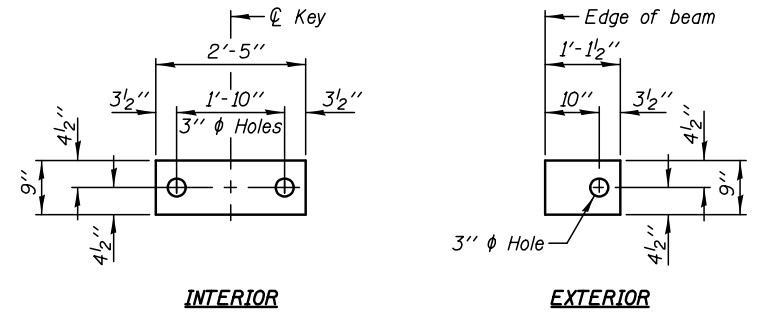
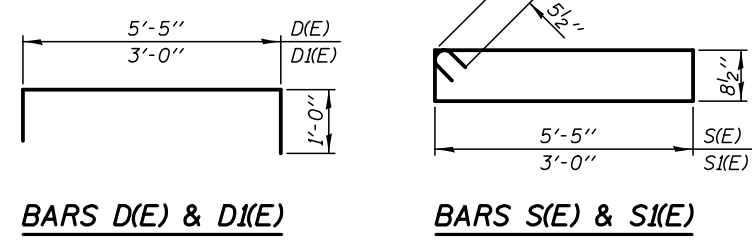
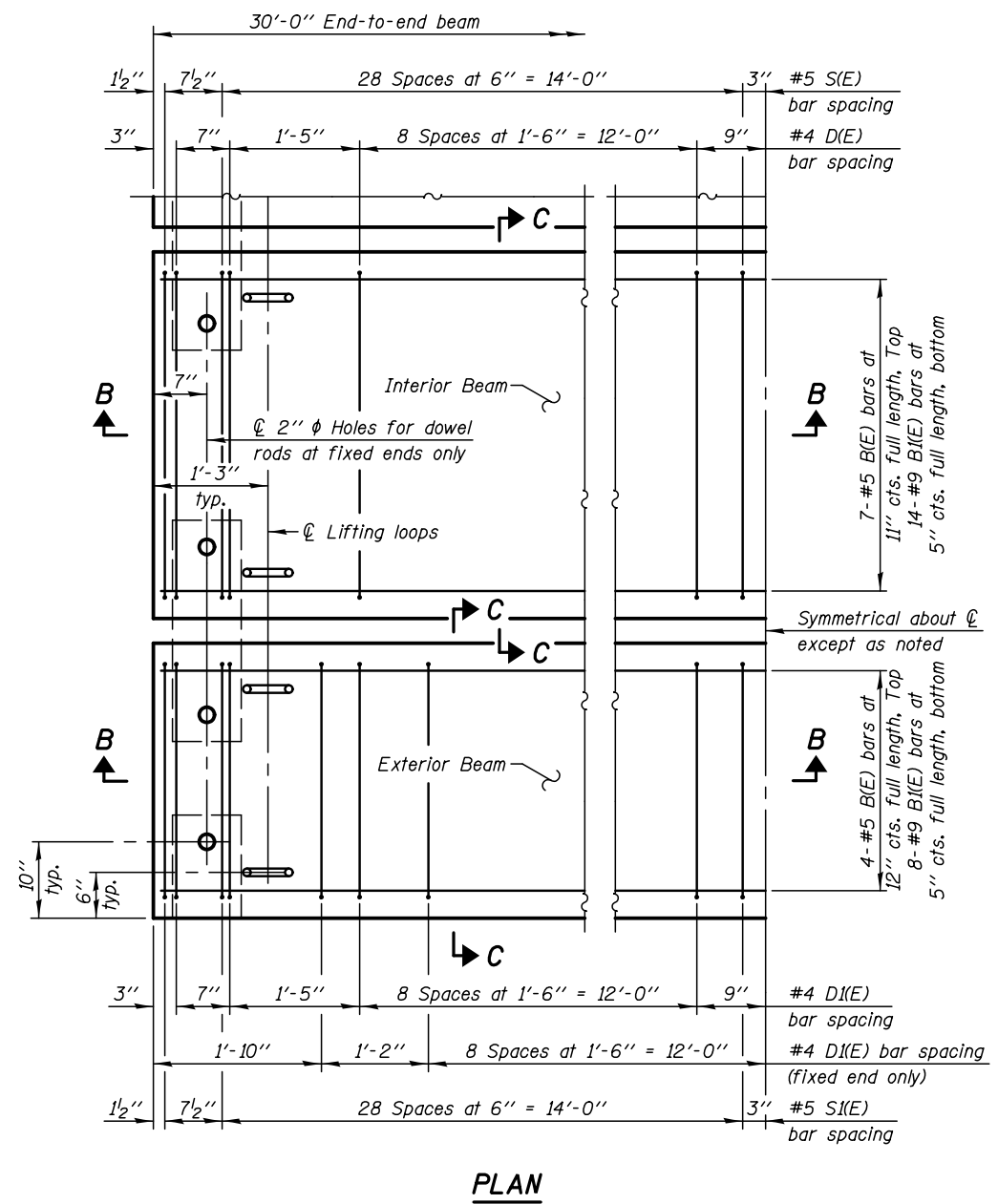
The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products".

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with "Precast Bridge Approach Slab".

A minimum 2 1/2" φ lifting pins shall be used to engage the lifting loops during handling.

Compressive strength of precast concrete, f'c shall be 6,000 psi.

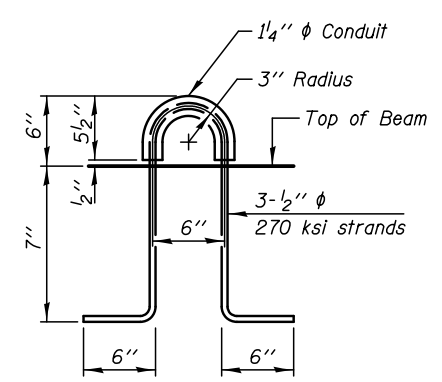
Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



Notes:

Bearing pads at fixed end shall be 1/2" thick and bearing pads at expansion end shall be 3/4" thick.

Omit holes for fabric bearing pads at approach slab footing end of beams.



(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BAR LIST EACH INTERIOR BEAM
(For Information Only)

Bar	No.	Size	Length	Shape
B(E)	7	#5	29'-8"	—
B(I(E))	14	#9	29'-8"	—
D(E)	22	#4	7'-5"	┌
S(E)	60	#5	13'-2"	▭

BAR LIST EACH EXTERIOR BEAM
(For Information Only)

Bar	No.	Size	Length	Shape
B(E)	4	#5	29'-8"	—
B(I(E))	8	#9	29'-8"	—
D(I(E))	32	#4	5'-0"	┌
S(I(E))	60	#5	8'-4"	▭

PLOT DATE = 4/6/2021

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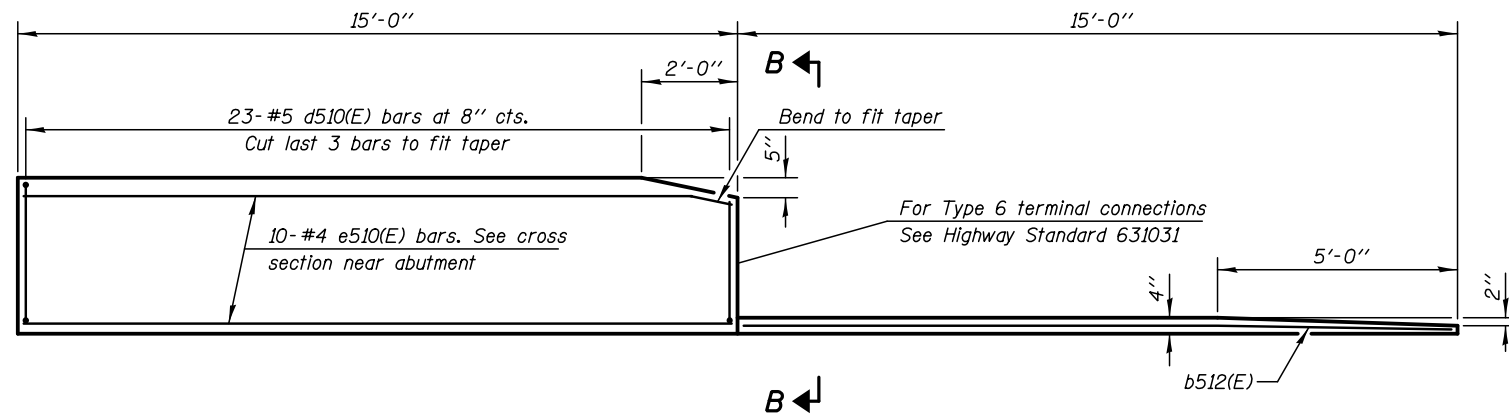
DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
SCALE - NONE	REVISION
DATE - 4/7/2021	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

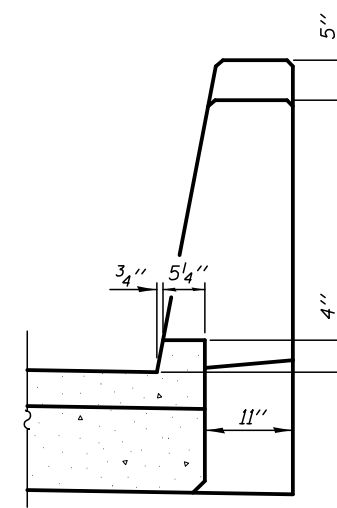
PRECAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 030-3007

SHEET S-14 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	45
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET AND CURB



VIEW B-B

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.

After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.

Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of "Concrete Wearing Surface, 5" ".

The strip seal shall extend 6" beyond the edge of the approach slab on each end.

Parapet concrete shall be paid for as "Concrete Superstructure".

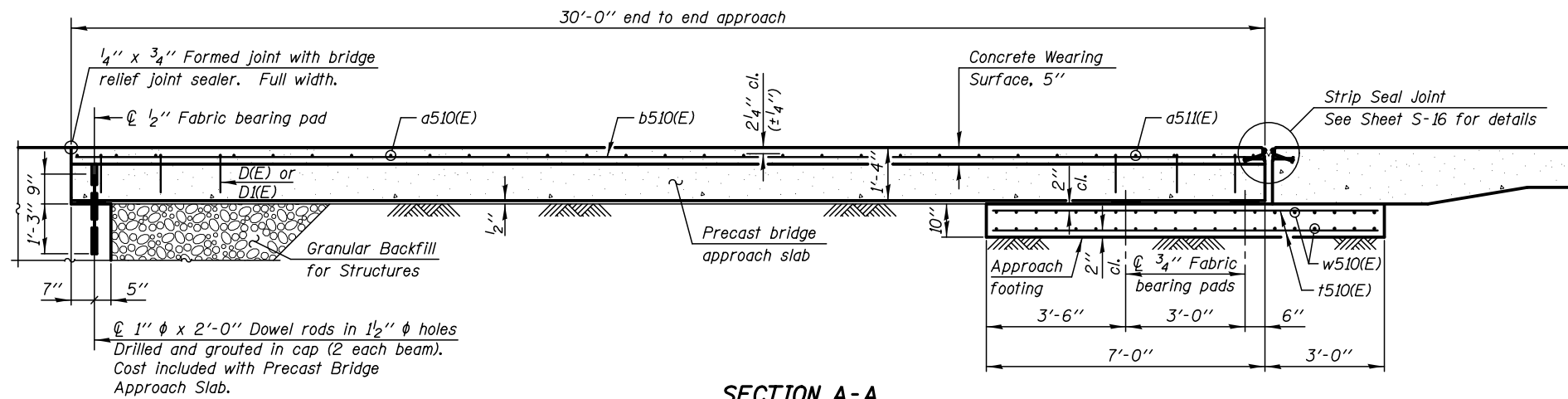
Approach footing concrete shall be paid for as "Concrete Structures".

The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.

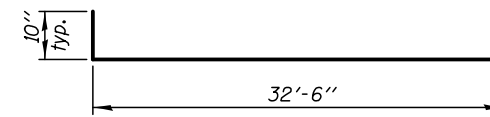
Cost of excavation for approach footing included with "Concrete Structures".

See Sheet S-03 for Granular Backfill for Structures and drainage treatment details.

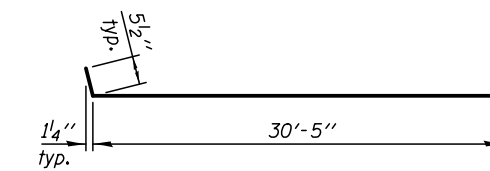
Cost of cellular polystyrene is included with "Concrete Superstructure".



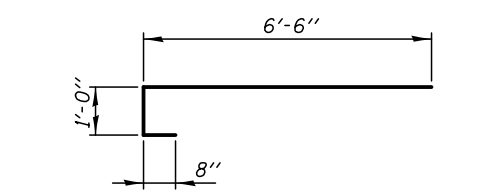
SECTION A-A



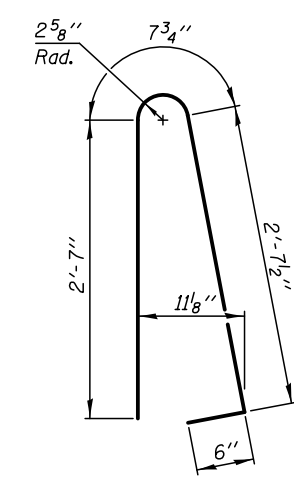
BAR a510(E)



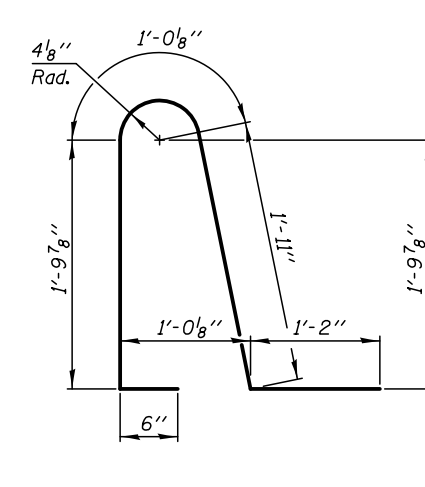
BAR a511(E)



BAR a512(E)



BAR d510(E)



BAR d511(E)

**TWO APPROACHES
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a510(E)	32	#5	34'-2"	┌───┐
a511(E)	32	#4	31'-4"	┌───┐
a512(E)	64	#5	8'-2"	┌───┐
b510(E)	62	#4	29'-8"	───
b511(E)	16	#5	14'-8"	───
b512(E)	4	#4	14'-8"	───
d510(E)	92	#5	6'-5"	┌───┐
d511(E)	92	#5	6'-5"	┌───┐
e510(E)	40	#4	14'-8"	───
f510(E)	128	#4	9'-8"	───
w510(E)	80	#5	30'-8"	───
			Pound	8880
Reinforcement Bars, Epoxy Coated				
Concrete Superstructure			Cu. Yd.	8.0
Concrete Structures			Cu. Yd.	20.0
Precast Bridge Approach Slab			Sq. Ft.	1860.0
Concrete Wearing Surface, 5"			Sq. Yd.	213.0
Bridge Deck Grooving			Sq. Yd.	187.0
Protective Coat			Sq. Yd.	236.0

PLOT DATE = 4/6/2021

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DESIGNED - TB
CHECKED - PRD
SCALE - NONE
DATE - 4/7/2021

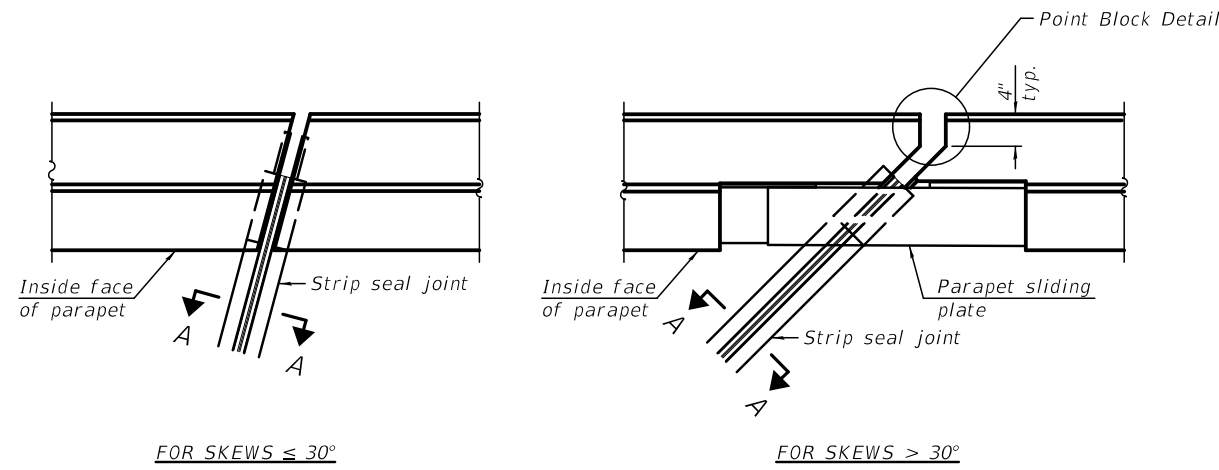
REVISIONS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

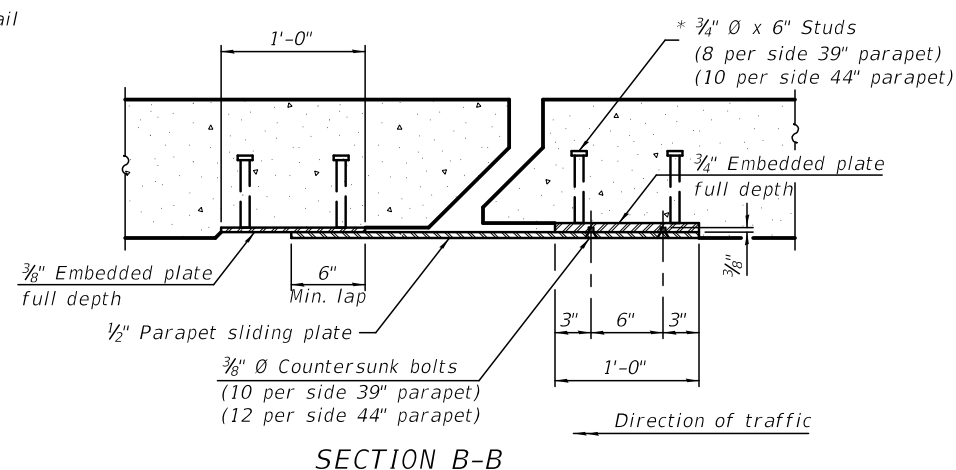
PRECAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 030-3007

SHEET S-15 OF 31 SHEETS

F.A.S. RTE. 893
SECTION 14-00080-00-BR
COUNTY GALLATIN
TOTAL SHEETS 92
SHEET NO. 46
CONTRACT NO. 99612
ILLINOIS FED. AID PROJECT

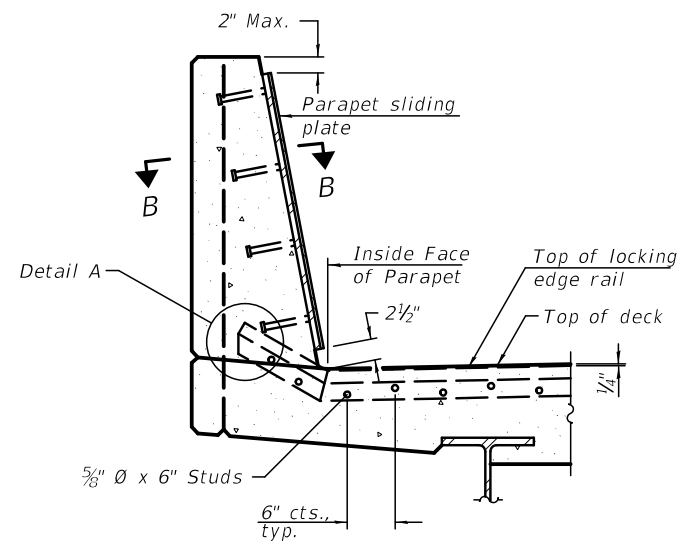


PLAN AT PARAPET



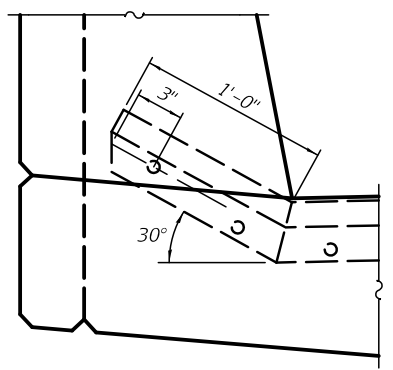
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

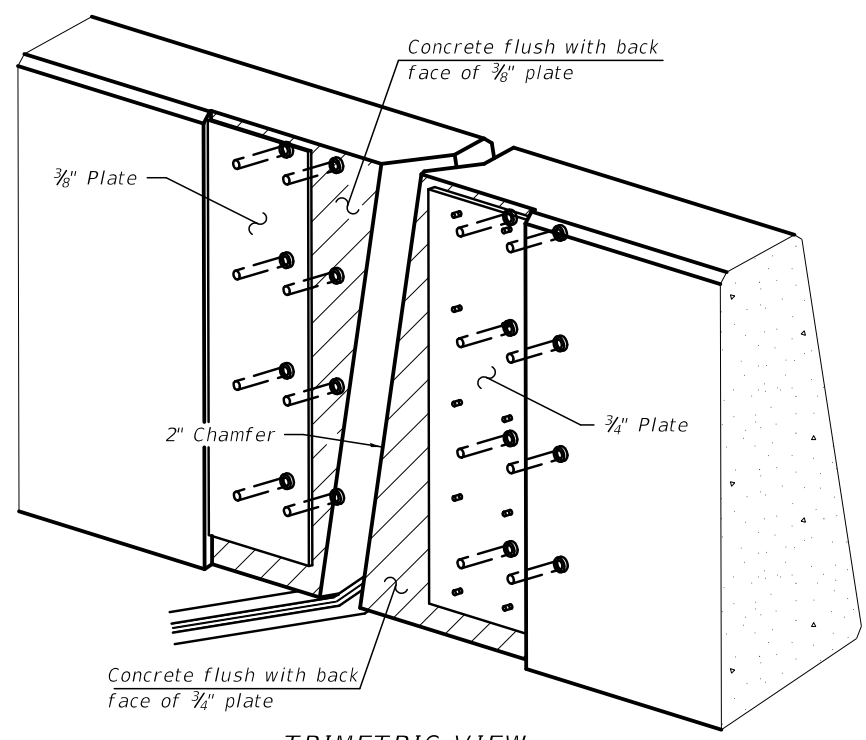


SECTION AT PARAPET

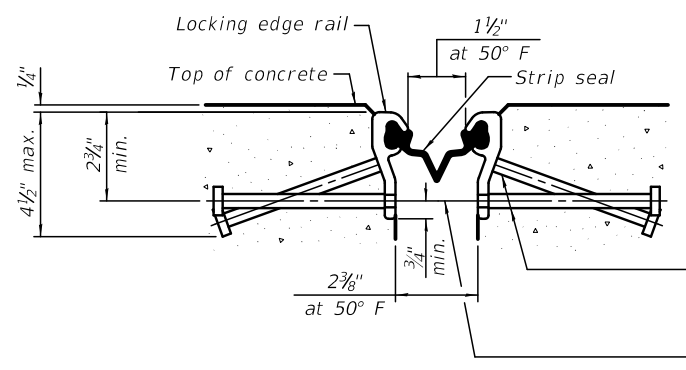
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A

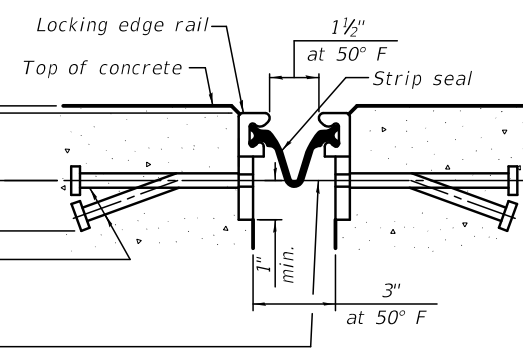


TRIMETRIC VIEW (Showing embedded plates only)

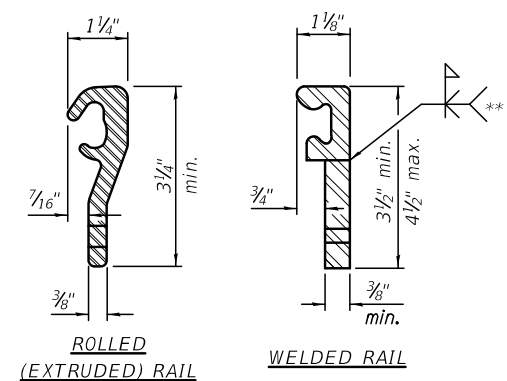


SHOWING ROLLED RAIL JOINT

* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

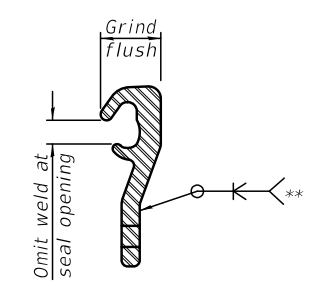


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	64.0

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

EJ-SS 1-1-2020

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 Engineers & Architects

DESIGNED - TB	REVIS
CHECKED - PRD	REVIS
DRAWN - TB	REVIS
CHECKED - PRD	REVIS

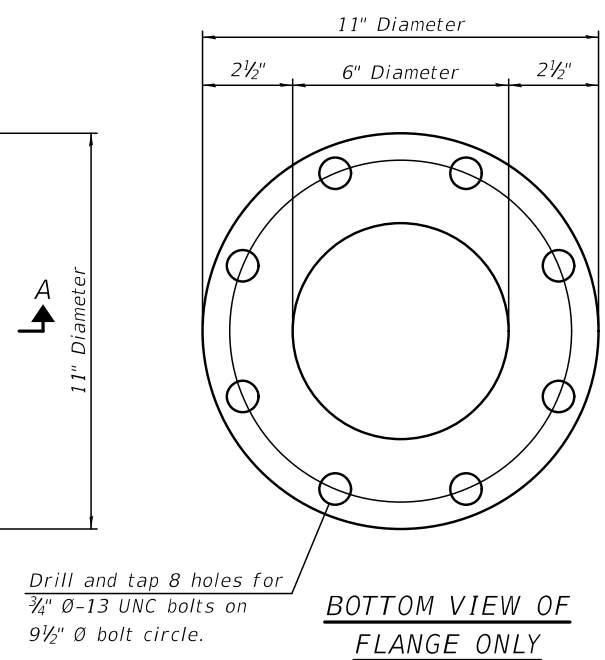
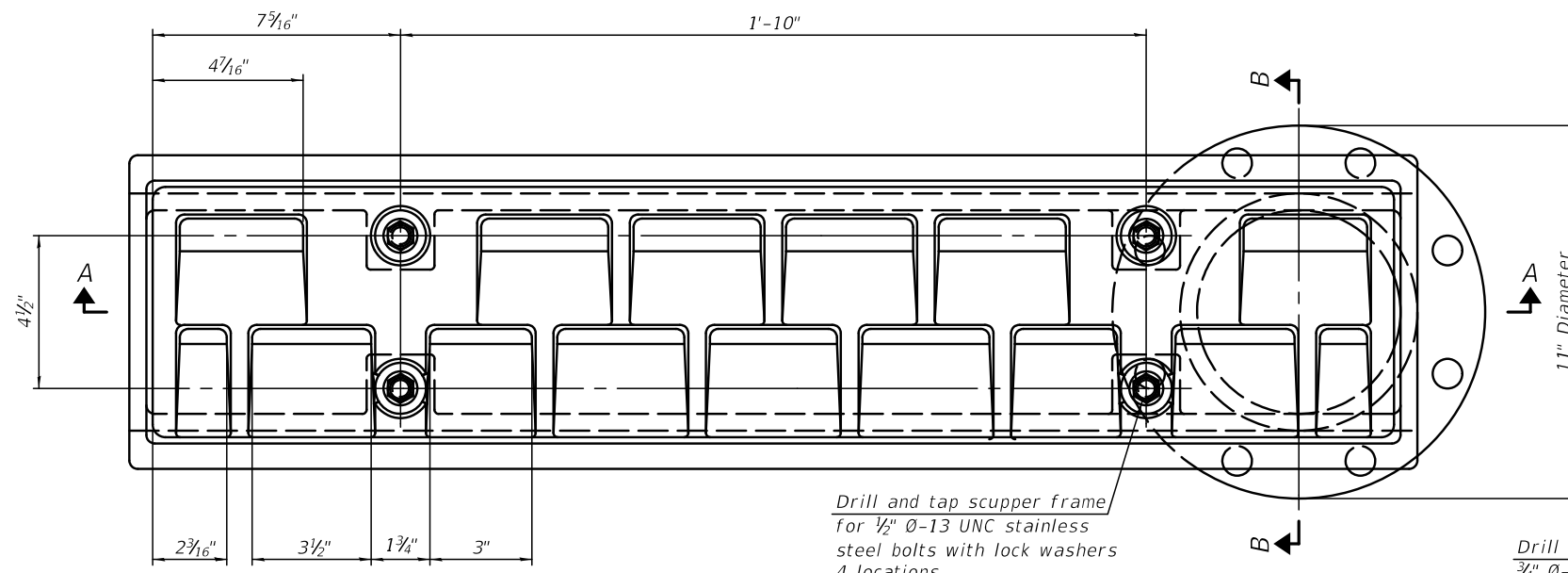
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 030-3007

SHEET S-16 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	47
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

PLOT DATE = 3/26/2021



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.

Bolts, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.

Stainless steel hardware shall be 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 frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

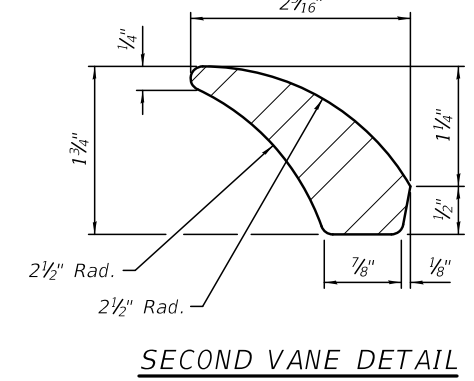
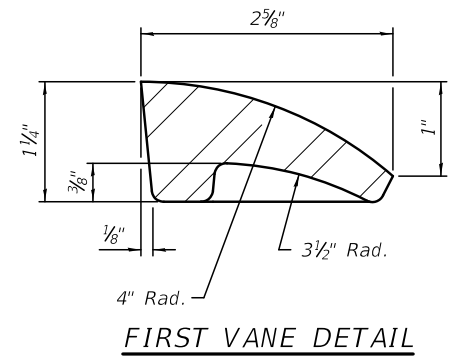
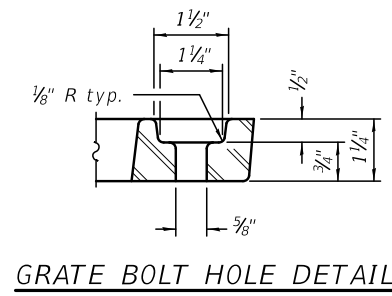
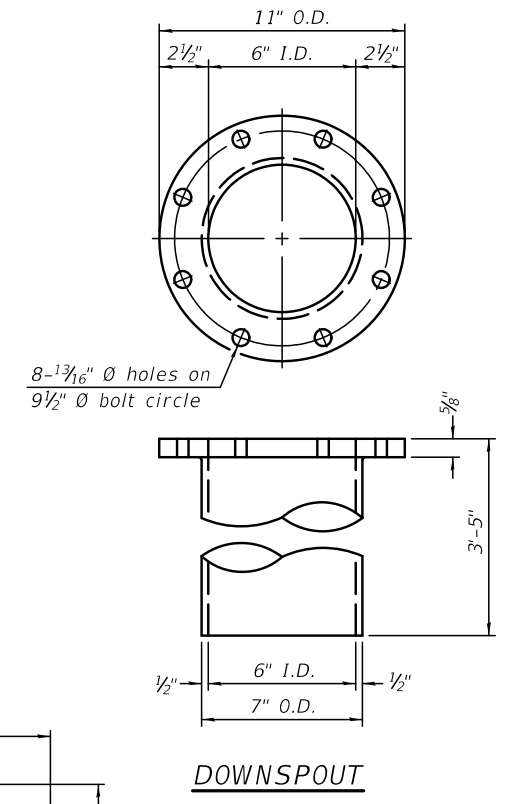
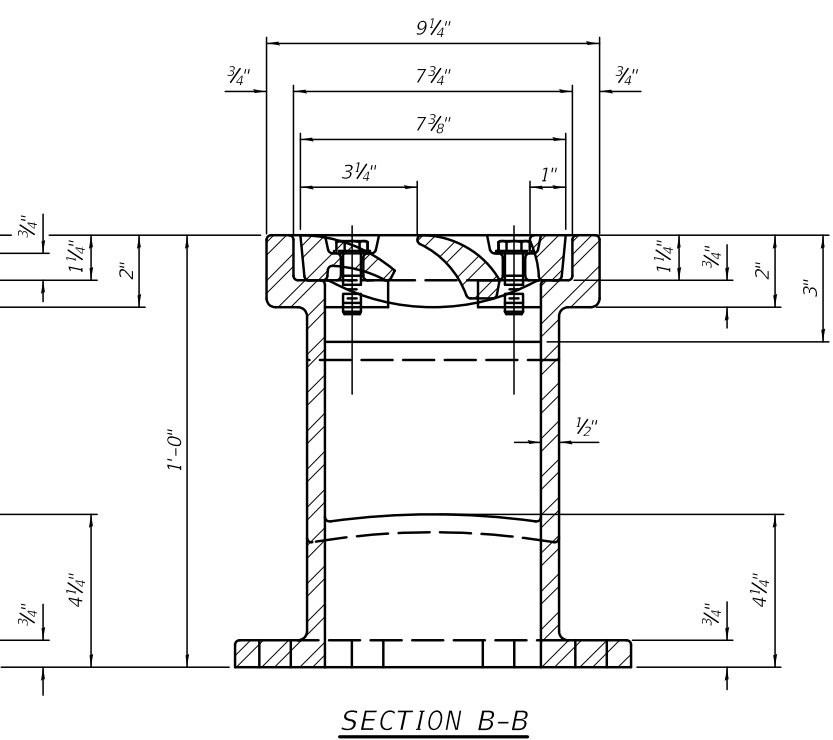
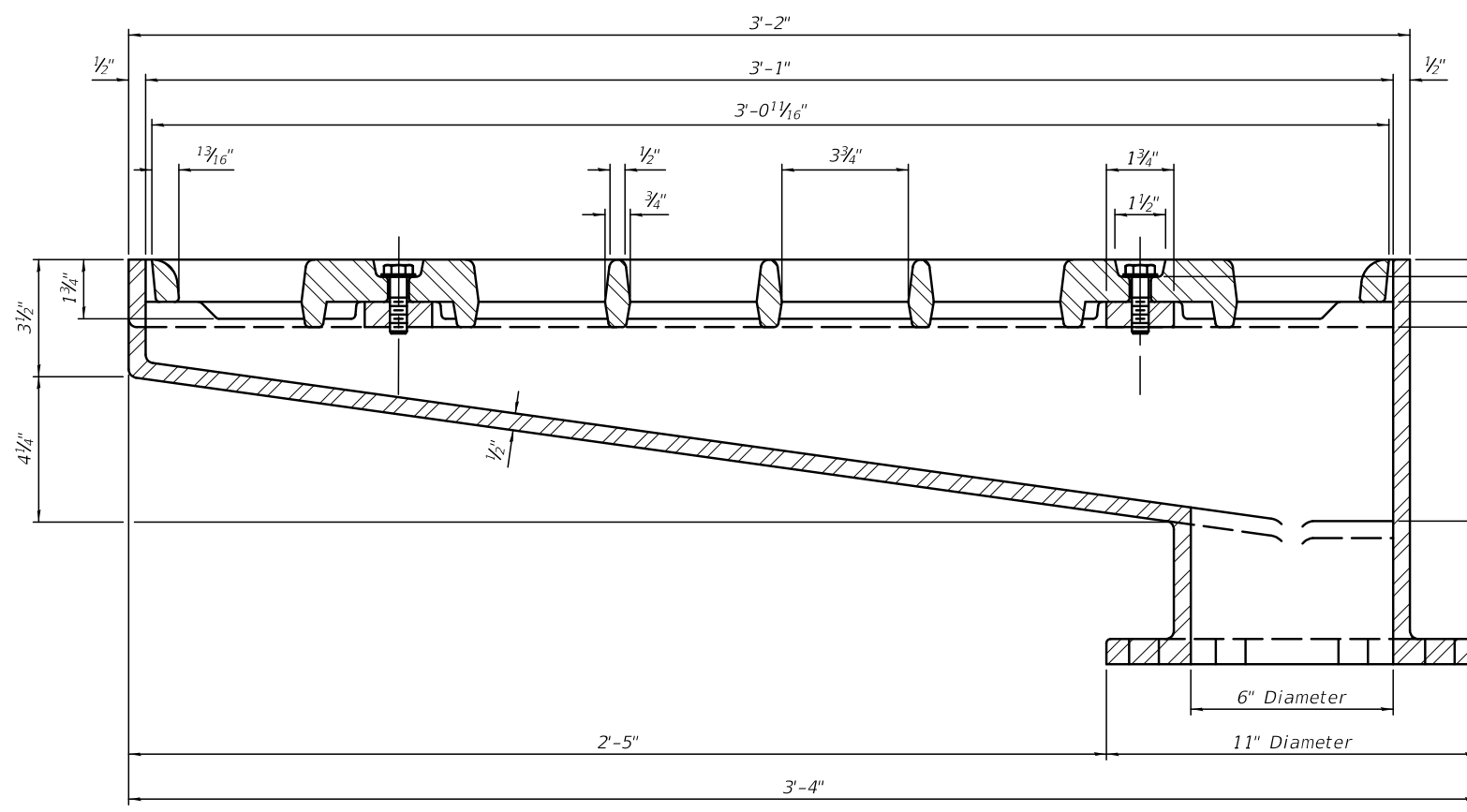
Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.

Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet of .

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

Cost of the grate, frame, downspout, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-33.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-33	Each	12

DS-33 1-1-2020

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISIONS
CHECKED - PRD	REVISIONS
DRAWN - TB	REVISIONS
CHECKED - PRD	REVISIONS

SCALE - NONE	DATE - 3/26/2021
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

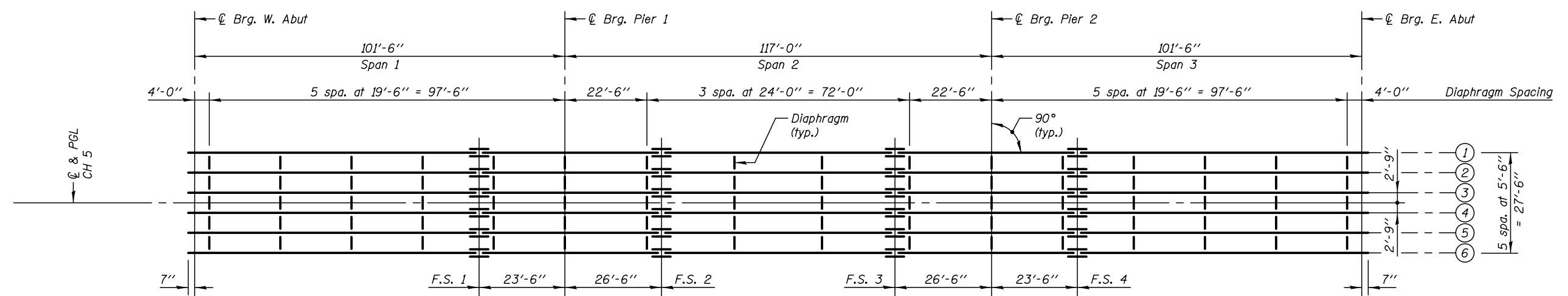
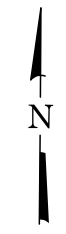
DRAINAGE SCUPPER, DS-33M
STRUCTURE NO. 030-3007

SHEET S-17 OF 31 SHEETS

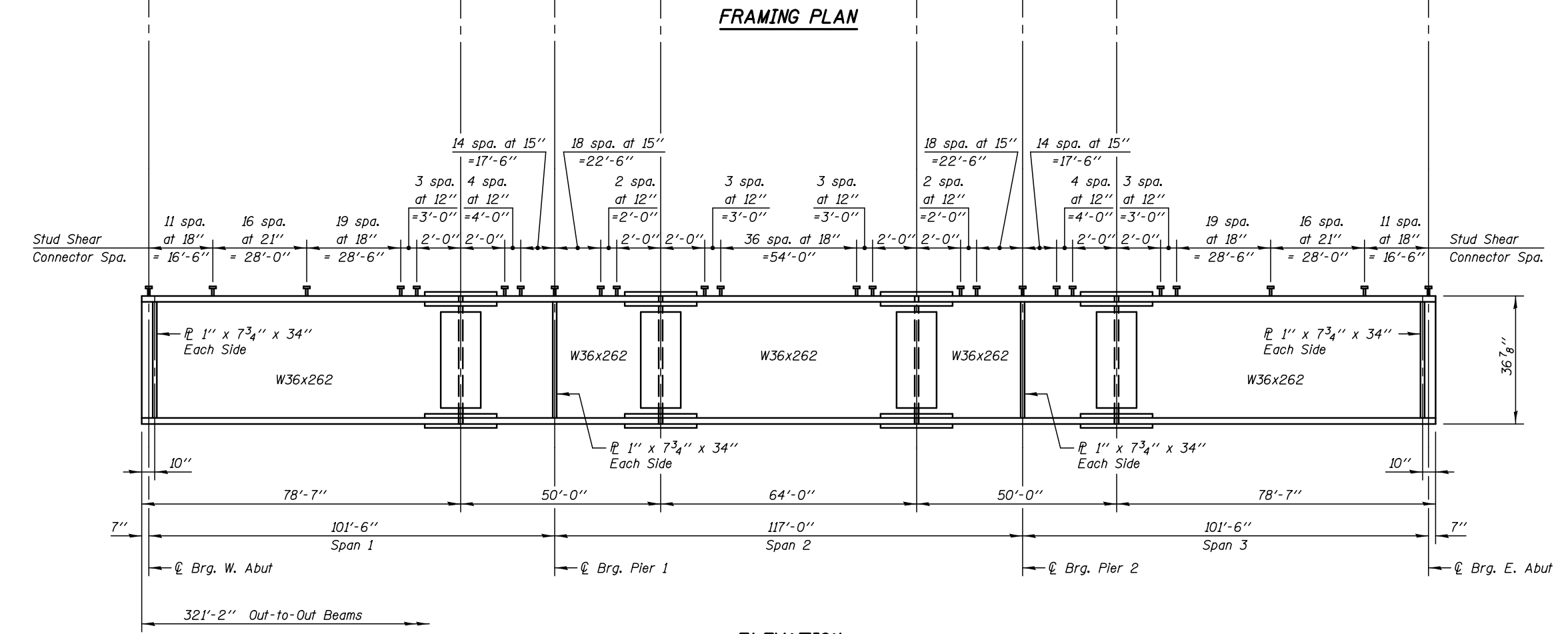
F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 48
CONTRACT NO. 99612				

ILLINOIS FED. AID PROJECT

PLOT DATE = 3/26/2021



FRAMING PLAN



ELEVATION

Notes:

All beams, bearing stiffeners, connection plates, diaphragms and splice plate material shall be AASHTO M270 Grade 50W.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

All span lengths, end of beam dimensions and diaphragm spaces are along horizontal plane of the structure.

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVIS
CHECKED - PRD	REVIS
SCALE - NONE	DRAWN - TB
DATE - 3/26/2021	CHECKED - PRD

DESIGNED - TB	REVIS
CHECKED - PRD	REVIS
DRAWN - TB	REVIS
CHECKED - PRD	REVIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND ELEVATION
STRUCTURE NO. 030-3007

SHEET S-18 OF 31 SHEETS

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 49
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

INTERIOR BEAM MOMENT TABLE				
		0.4 Span 1 0.6 Span 3	Pier	0.5 Span 2
I_s	(in ⁴)	17900	17900	17900
$I_c(n)$	(in ⁴)	38860	-	38860
$I_c(3n)$	(in ⁴)	28159	-	28159
$I_c(cr)$	(in ⁴)	-	20511	-
S_s	(in ³)	972	972	972
$S_c(n)$	(in ³)	1303	-	1303
$S_c(3n)$	(in ³)	1171	-	1171
$S_c(cr)$	(in ³)	-	1211	-
DC1	(k/')	0.903	0.903	0.903
M_{DC1}	(k)	689	1068	477
DC2	(k/')	0.177	0.177	0.177
M_{DC2}	(k)	135	209	94
DW	(k/')	0.250	0.250	0.250
M_{DW}	(k)	191	296	132
LLDF		0.485	0.474	0.474
$M_k + IM$	(k)	1136	1152	1047
M_u (Strength I)	(k)	3305	4056	2743
$\phi_f M_n$	(k)	5956	-	5956
f_s DC1	(ksi)	8.51	13.18	5.89
f_s DC2	(ksi)	1.38	2.07	0.96
f_s DW	(ksi)	1.96	2.93	1.35
f_s ($k + IM$)	(ksi)	10.46	11.41	9.64
f_s (Service II)	(ksi)	25.45	33.03	20.74
$0.95R_n F_y f$	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	33.61	43.44	27.46
$\phi_f F_n$	(ksi)	-	50.0	-
V_f	(k)	16.7	26.3	17.9

BEAM REACTION TABLE				
	Abutment		Pier	
	Interior	Exterior	Interior	Exterior
LLDF	0.634	0.459	0.634	0.459
OCF	-	-	-	-
R_{DC1}	(k) 35.3	35.0	109.2	108.2
R_{DC2}	(k) 6.9	6.9	21.4	21.4
R_{DW}	(k) 9.8	9.8	30.2	30.2
R_k	(k) 59.3	43.0	113.0	82.0
R_{Im}	(k) 13.4	9.7	20.0	14.5
R_{Total}	(k) 124.7	104.4	293.8	256.3

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 (in⁴ and in³).

$I_c(n), S_c(n)$: 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) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: 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) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

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.).

$M_k + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_k + IM$
 $\phi_f M_n$: 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.).

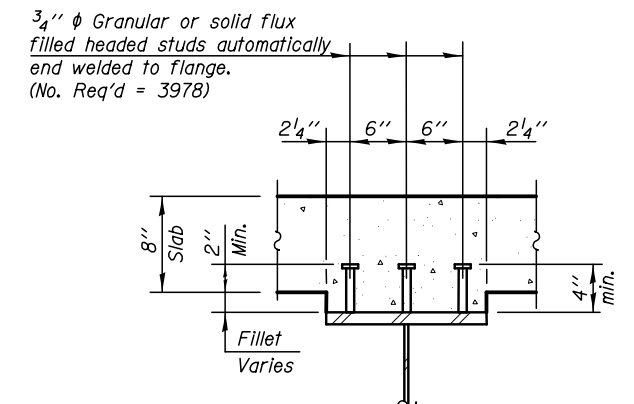
f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
 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).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
 f_s ($k + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_k + IM / S_c(n)$ or $M_k + IM / S_c(cr)$ as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (k + IM)$
 $0.95R_n F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (k + IM)$
 $\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
 V_f : Maximum factored shear range in span computed according to Article 6.10.10.
LLDF: Live Load Distribution Factor
OCF: Obtuse Correction Factor

Note:
 M_k and R_k include the effects of centrifugal force and superelevation.

TOP OF BEAM ELEVATIONS

(For Fabrication use only)

Beam No.	Brg. W. Abut.	F.S. 1	☉ Pier 1	F.S. 2	F.S. 3	☉ Pier 2	F.S. 4	Brg. E. Abut.
1	369.20	369.62	369.74	369.88	369.95	369.86	369.78	369.51
2	369.29	369.71	369.83	369.97	370.04	369.95	369.87	369.60
3	369.38	369.80	369.92	370.06	370.13	370.04	369.96	369.69
4	369.38	369.80	369.92	370.06	370.13	370.04	369.96	369.69
5	369.29	369.71	369.83	369.97	370.04	369.95	369.87	369.60
6	369.20	369.62	369.74	369.88	369.95	369.86	369.78	369.51



SHEAR CONNECTORS DETAIL

Notes:

All beams, bearing stiffeners, connection plates, diaphragms and splice plate material shall be AASHTO M270 Grade 50W.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

All span lengths, end of beam dimensions and diaphragm spaces are along horizontal plane of the structure.

BILL OF MATERIAL

Item	Unit	Quantity
Furnishing And Erecting Structural Steel	L Sum	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

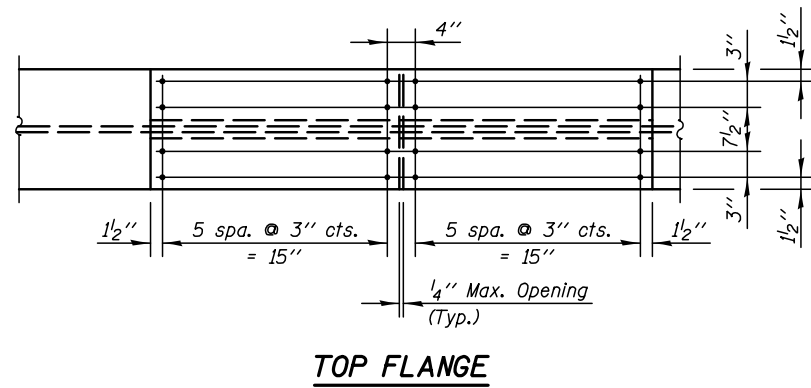
BEAM DETAILS
STRUCTURE NO. 030-3007

SHEET S-19 OF 31 SHEETS

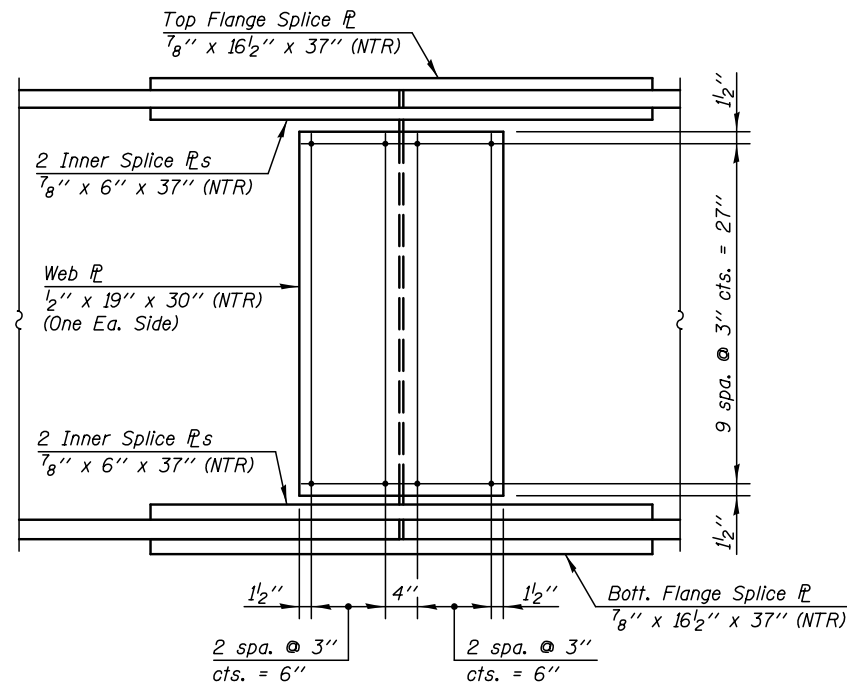
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

KNIGHT
Engineers & Architects

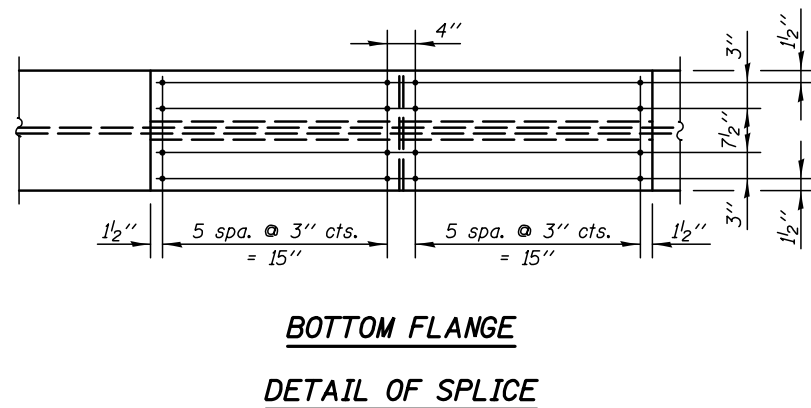
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SCALE - NONE	REVISION
DATE - 3/26/2021	REVISION
DRAWN - TB	REVISION
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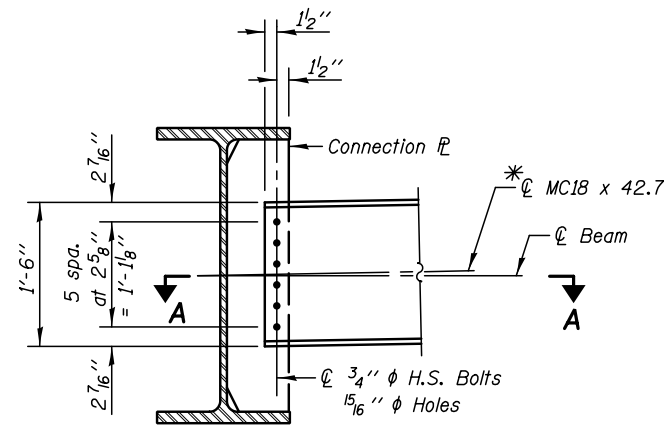
TOP FLANGE



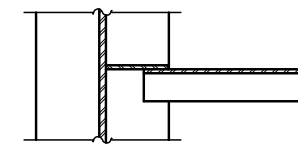
ELEVATION



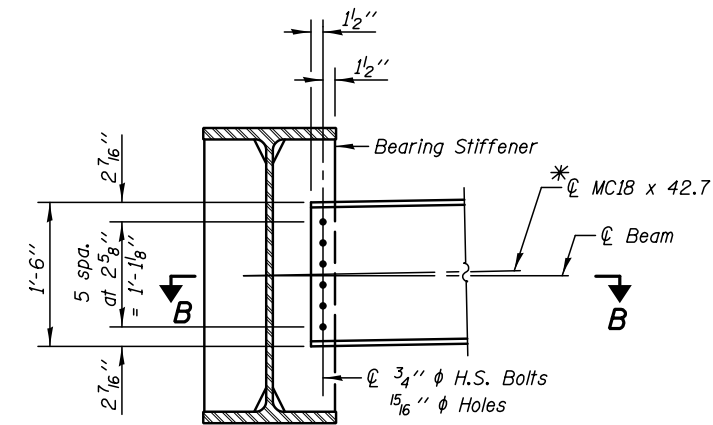
**BOTTOM FLANGE
DETAIL OF SPLICE**



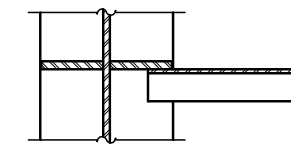
**DIAPHRAGM
70 Required**



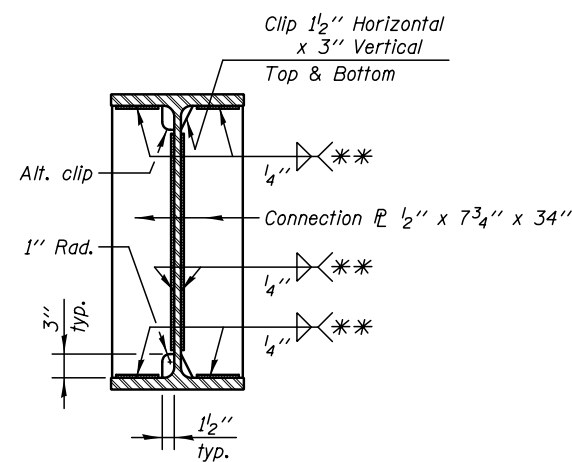
SECTION A-A



**PIER DIAPHRAGM
10 Required**

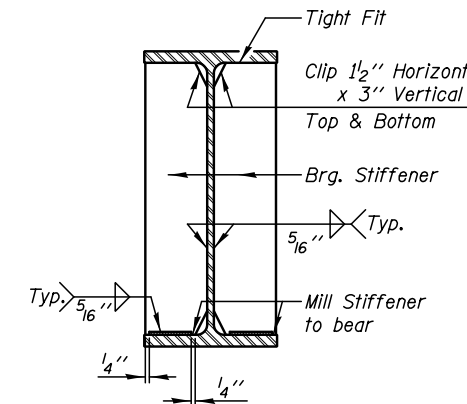


SECTION B-B



CONNECTION PLATE

**Stop welds 1/4" ($\pm 1/8$ ") from edges as shown.



**BEARING STIFFENER
24 Required**

NOTES:

All beams, bearing stiffeners, connection plates, diaphragms and splice plate material shall be AASHTO M270 Grade 50W.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

All splice bolts shall be 7/8" ϕ High Strength Bolts. All splice holes shall be 5/16" ϕ holes.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Two hardened washers required for each set of oversized holes.

*Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Calculated weight of structural steel is based on MC18X42.7 sections. Alternate channels, if utilized, shall be provided at no additional cost to the department.

PLOT DATE = 3/26/2021

KNIGHT
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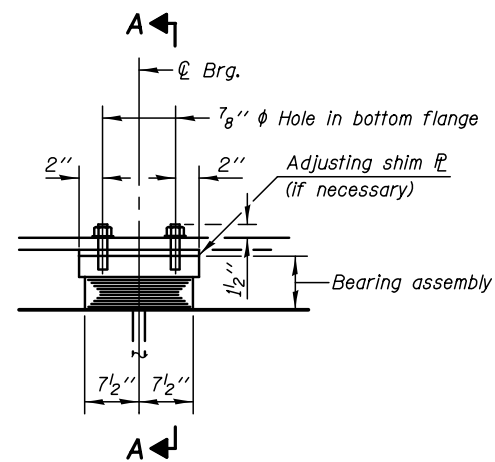
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CHECKED	-	PRD	REVISED		
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DATE	-	3/26/2021	CHECKED	-	PRD
			REVISED		

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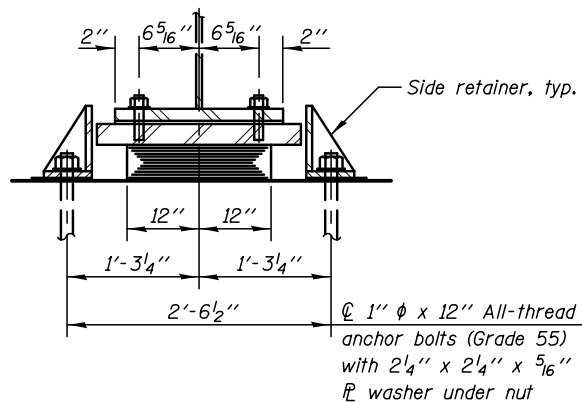
FIELD SPLICE AND DIAPHRAGM DETAILS
STRUCTURE NO. 030-3007

SHEET S-20 OF 31 SHEETS

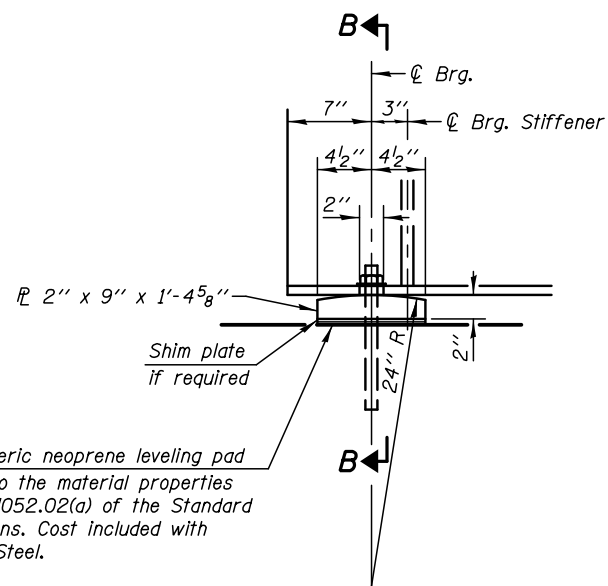
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893	14-00080-00-BR	GALLATIN	92	51
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



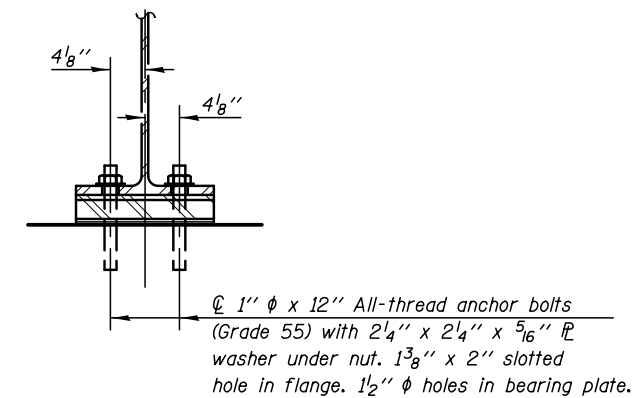
ELEVATION AT PIER



SECTION A-A



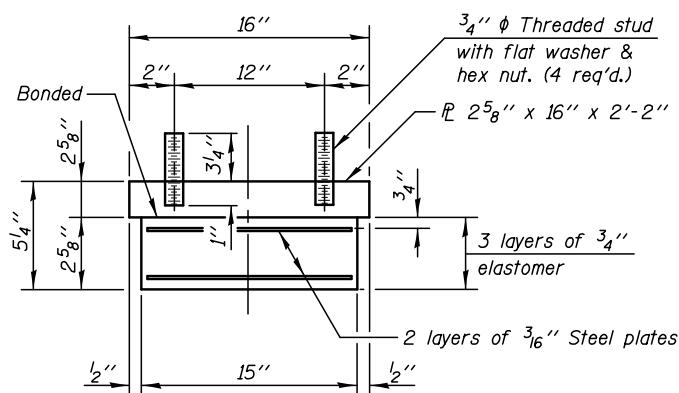
ELEVATION AT ABUTMENT



SECTION B-B

TYPE I ELASTOMERIC EXPANSION BEARING

FIXED BEARING



BEARING ASSEMBLY

Note

Shim plates shall not be placed under bearing assembly.

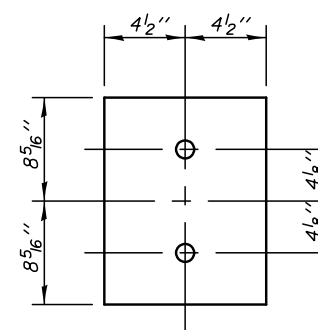


PLATE PLAN VIEW

Notes:

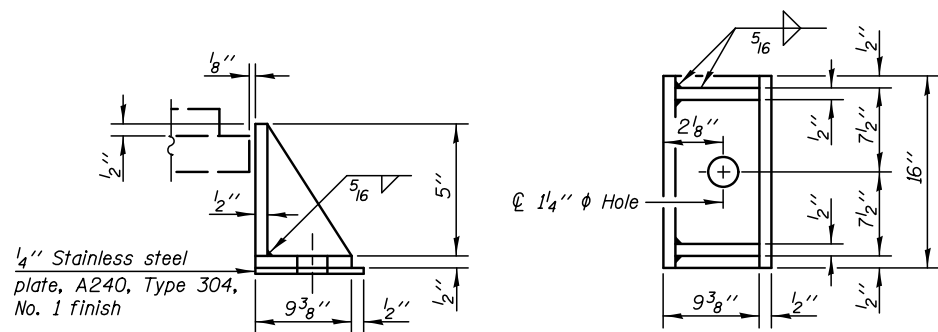
All steel for bearings shall conform to the requirements of AASHTO M270 Grade 50W, unless otherwise noted.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates.

Anchor bolts 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.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 1"	Each	48

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
SCALE - NONE	REVISION
DATE - 3/26/2021	REVISION

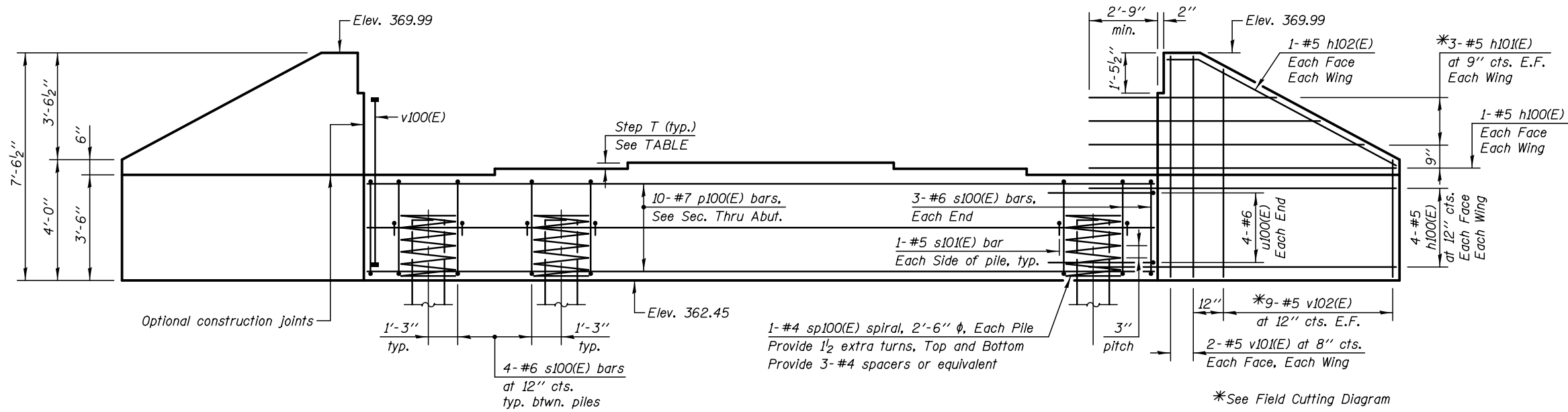
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

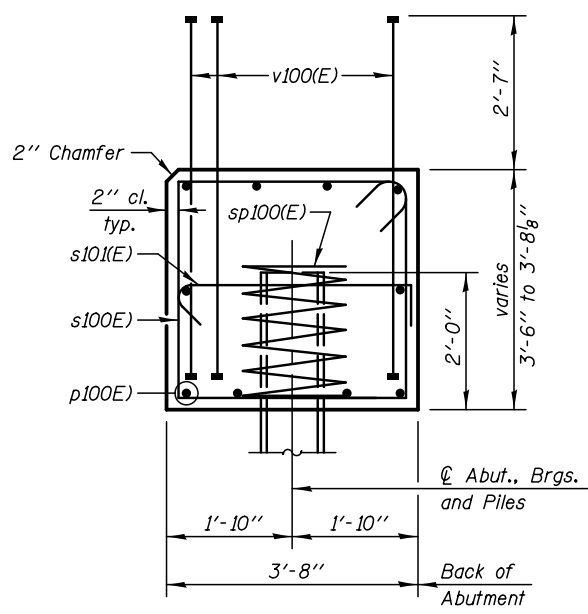
BEARING DETAILS
STRUCTURE NO. 030-3007

SHEET S-21 OF 31 SHEETS

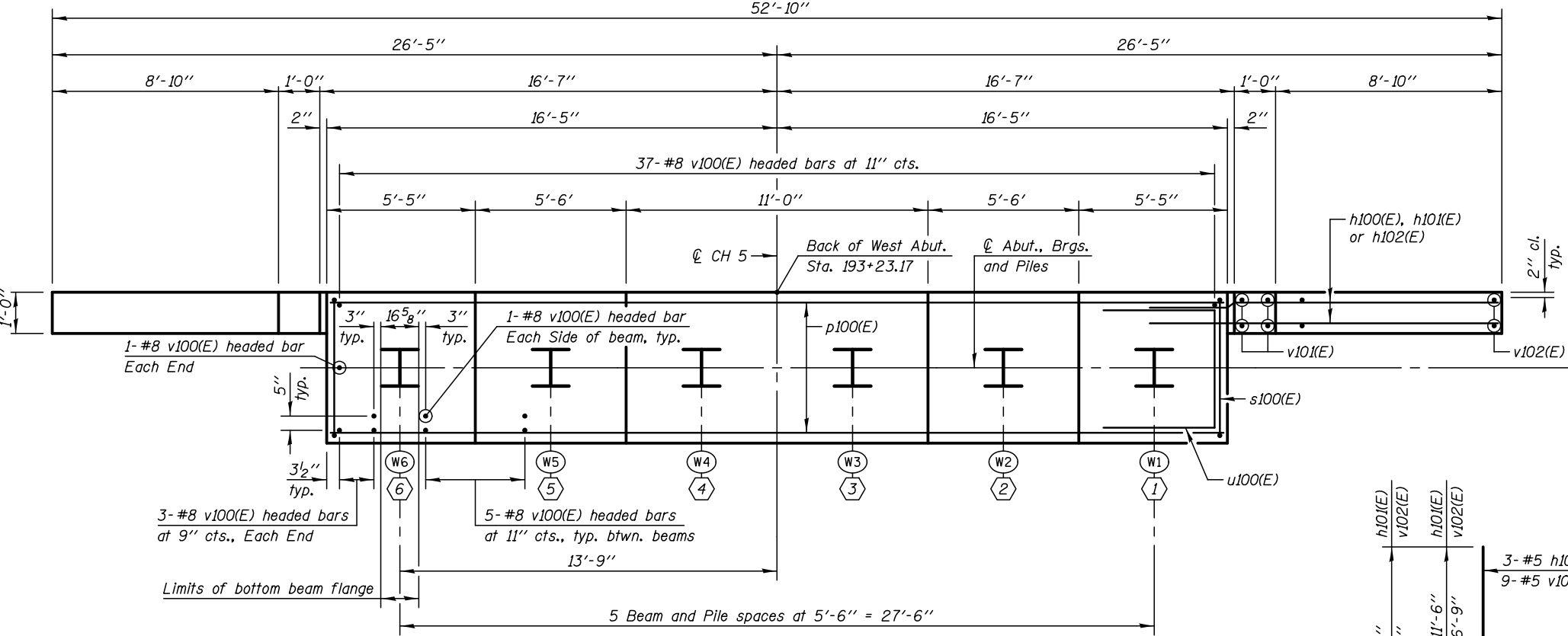
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893	14-00080-00-BR	GALLATIN	92	52
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



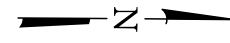
ELEVATION
(Looking West)



SECTION THRU ABUTMENT

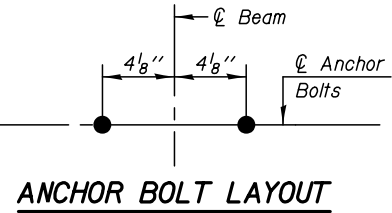


PLAN - WEST ABUTMENT



BEARING SEAT ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP T- inch
1	365.95	1/8
2	366.04	1
3	366.13	0
4	366.13	1
5	366.04	1/8
6	365.95	



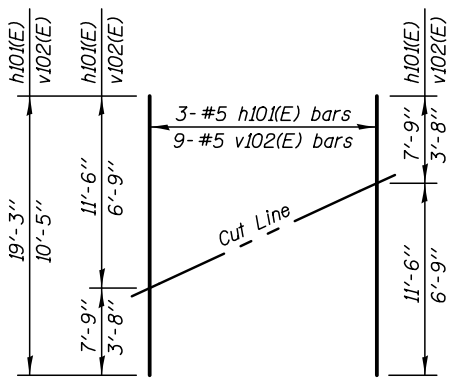
ANCHOR BOLT LAYOUT

PILE DATA

Type & Size: Steel HP 18x157
 Nominal Required Bearing: 1247 Kips
 Factored Resistance Available: 686 Kips
 Est. Length: 64 ft
 No. Production Piles: 5
 No. Test Piles: 1

LEGEND

- E.F. Each Face
- W3 Pile Number
- 3 Beam Number



FIELD CUTTING DIAGRAM

Order h101(E) and v102(E) full length. Cut as shown and use remainder of bars in opposite face.

NOTES

- Space reinforcement bars to miss anchor bolts.
- Pour steps monolithically with cap.
- See Sheet S-24 for bar bending details and Bill of Material.

PLOT DATE = 4/6/2021



DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION

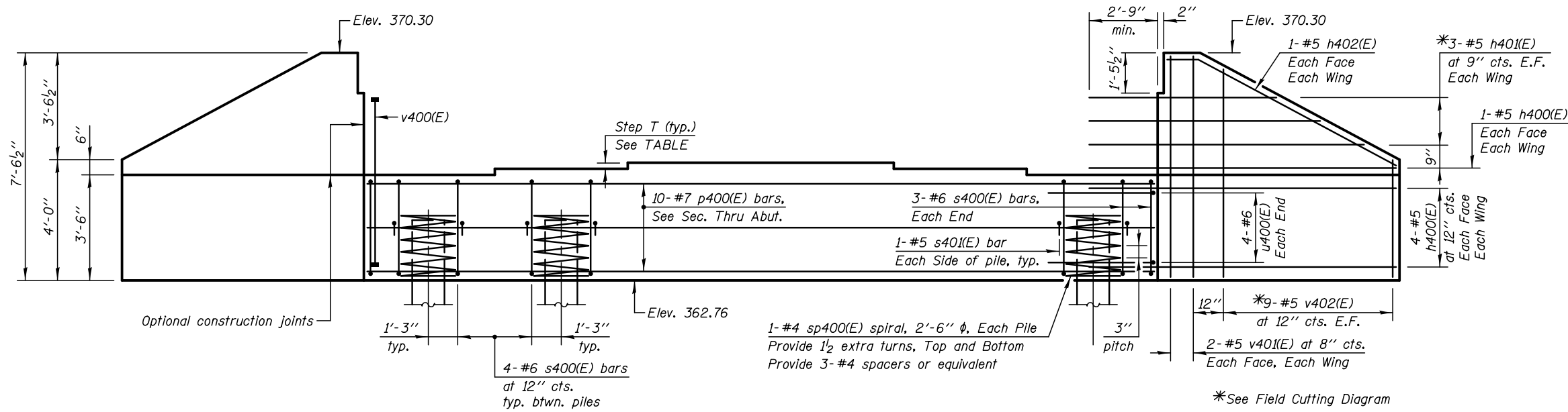
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 030-3007

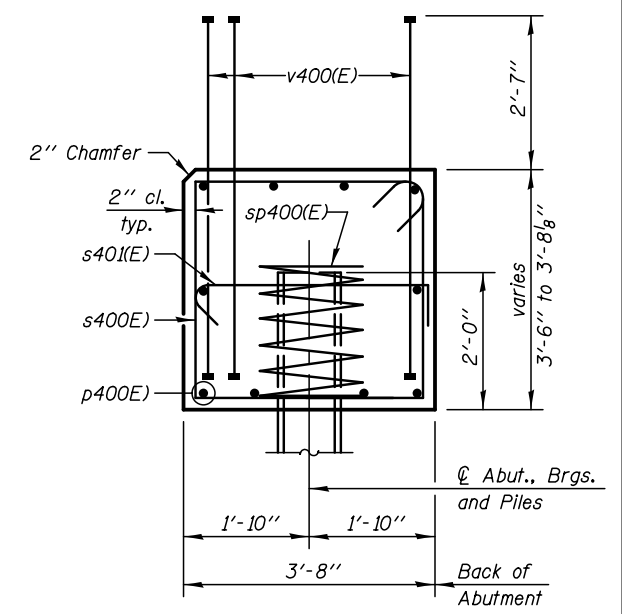
SHEET S-22 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	53
CONTRACT NO. 99612				

ILLINOIS FED. AID PROJECT



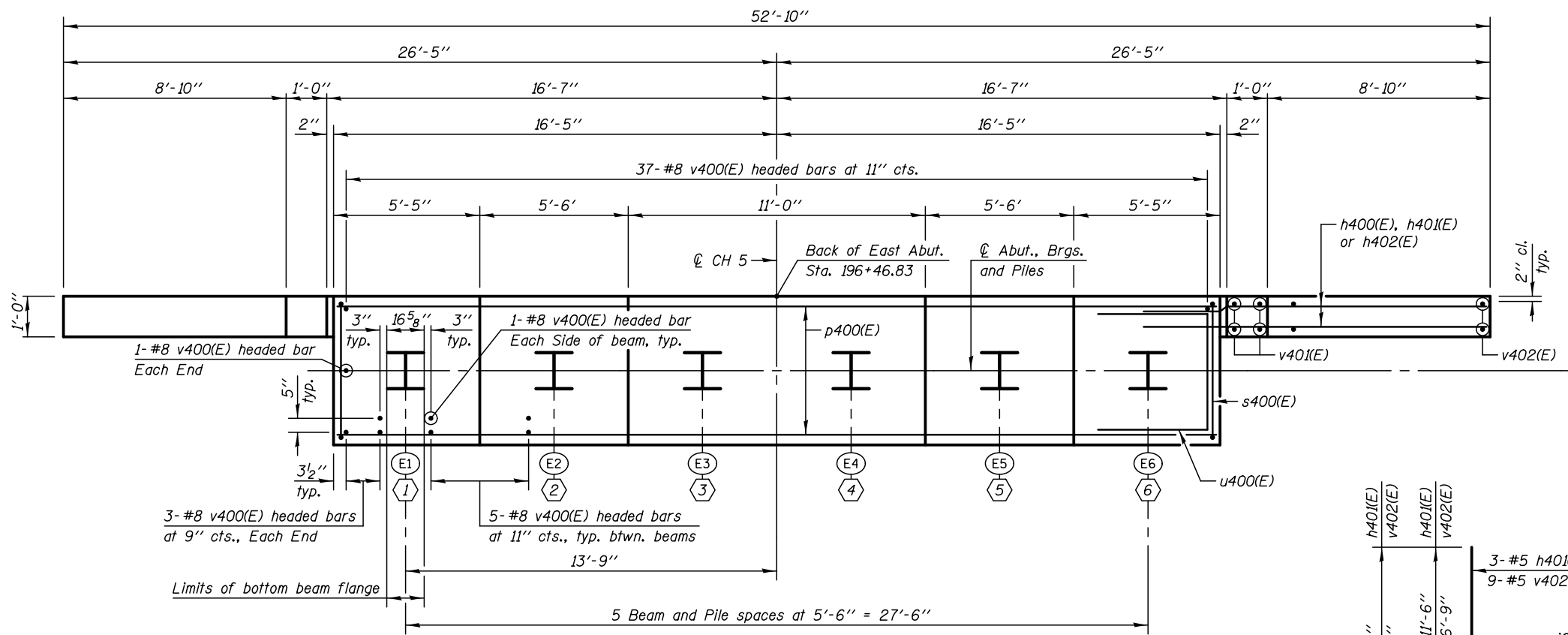
ELEVATION
(Looking East)



SECTION THRU ABUTMENT

BEARING SEAT ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP T- inch
1	366.26	1/8
2	366.35	1
3	366.44	0
4	366.44	1
5	366.35	1/8
6	366.26	

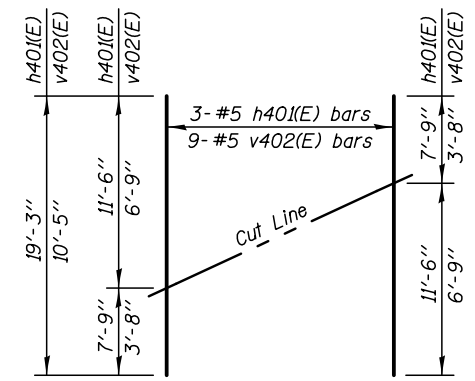


PLAN - EAST ABUTMENT

PILE DATA
 Type & Size: Steel HP 18x157
 Nominal Required Bearing: 588 Kips
 Factored Resistance Available: 323 Kips
 Est. Length: 53 ft
 No. Production Piles: 5
 No. Test Piles: 1

LEGEND
 E.F. Each Face
 (E3) Pile Number
 (3) Beam Number

ANCHOR BOLT LAYOUT



FIELD CUTTING DIAGRAM

Order h401(E) and v402(E) full length. Cut as shown and use remainder of bars in opposite face.

NOTES

- Space reinforcement bars to miss anchor bolts.
- Pour steps monolithically with cap.
- See Sheet S-24 for bar bending details and Bill of Material.

PLOT DATE = 4/6/2021



DESIGNED - TB	REVISION
CHECKED - PRD	REVISION
DRAWN - TB	REVISION
CHECKED - PRD	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 030-3007

SHEET S-23 OF 31 SHEETS

F.A.S. RTE. 893	SECTION 14-00080-00-BR	COUNTY GALLATIN	TOTAL SHEETS 92	SHEET NO. 54
CONTRACT NO. 99612				

ILLINOIS FED. AID PROJECT

**WEST ABUTMENT
BILL OF MATERIAL**

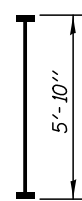
BAR	NO.	SIZE	LENGTH	SHAPE
h100(E)	20	#5	12'-9"	▬▬▬
h101(E)	6	#5	19'-3"	▬▬▬
h102(E)	4	#5	10'-2"	▬▬▬
p100(E)	10	#7	32'-6"	▬▬▬
s100(E)	26	#6	14'-4"	▬▬▬
s101(E)	12	#5	4'-4"	▬▬▬
* sp100(E)	6	#4	2'-0"	▬▬▬
u100(E)	8	#6	11'-10"	▬▬▬
v100(E)	82	#8	5'-10"	▬▬▬
v101(E)	8	#5	7'-2"	▬▬▬
v102(E)	18	#5	10'-5"	▬▬▬
Reinforcement Bars, Epoxy Coated			Pound	3730
Concrete Structures			Cu. Yd.	21.0
Structure Excavation			Cu. Yd.	128.0
Furnishing Steel Piles HP18x157			Foot	320.0
Driving Piles			Foot	310.0
Test Pile Steel HP18x157			Each	1

*Length is height of spiral

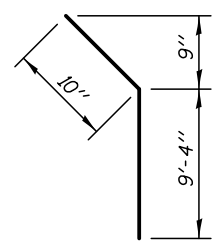
**EAST ABUTMENT
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h400(E)	20	#5	12'-9"	▬▬▬
h401(E)	6	#5	19'-3"	▬▬▬
h402(E)	4	#5	10'-2"	▬▬▬
p400(E)	10	#7	32'-6"	▬▬▬
s400(E)	26	#6	14'-4"	▬▬▬
s401(E)	12	#5	4'-4"	▬▬▬
* sp400(E)	6	#4	2'-0"	▬▬▬
u400(E)	8	#6	11'-10"	▬▬▬
v400(E)	82	#8	5'-10"	▬▬▬
v401(E)	8	#5	7'-2"	▬▬▬
v402(E)	18	#5	10'-5"	▬▬▬
Reinforcement Bars, Epoxy Coated			Pound	3730
Concrete Structures			Cu. Yd.	21.0
Structure Excavation			Cu. Yd.	120.0
Furnishing Steel Piles HP18x157			Foot	265.0
Driving Piles			Foot	255.0
Test Pile Steel HP18x157			Each	1

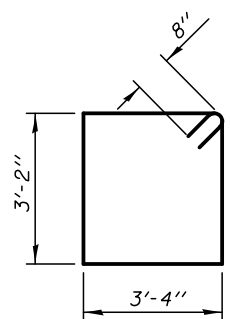
*Length is height of spiral



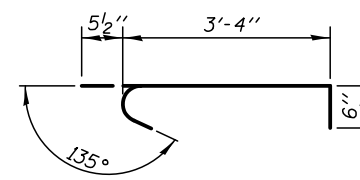
BARS v100(E) & v400(E)
(Headed)



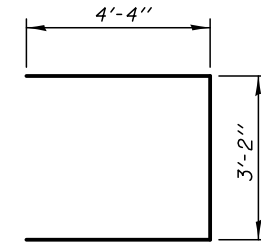
BARS h102(E) & h402(E)



BARS s100(E) & s400(E)



BARS s101(E) & s401(E)



BARS u100(E) & u400(E)

Notes
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".

PLOT DATE = 4/6/2021

KNIGHT
Engineers & Architects

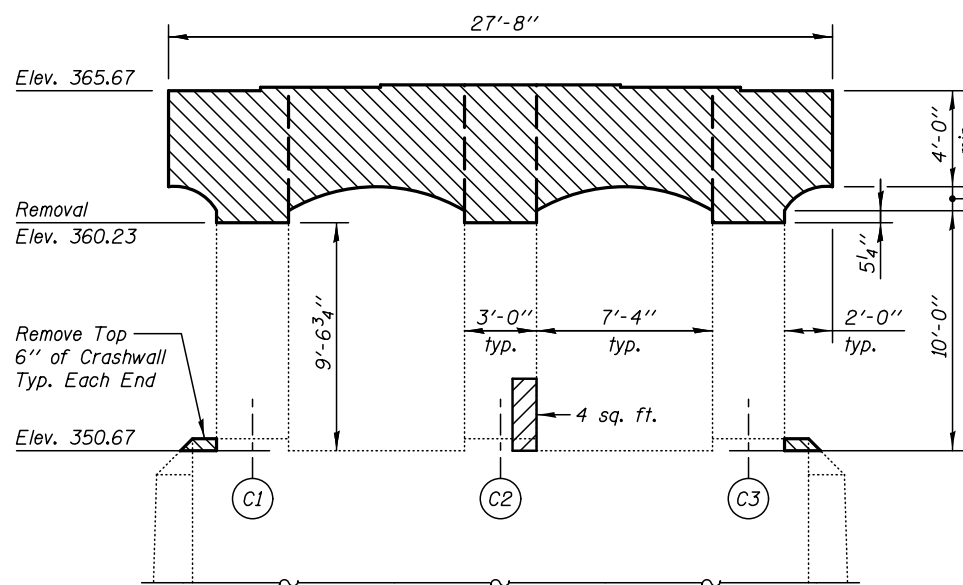
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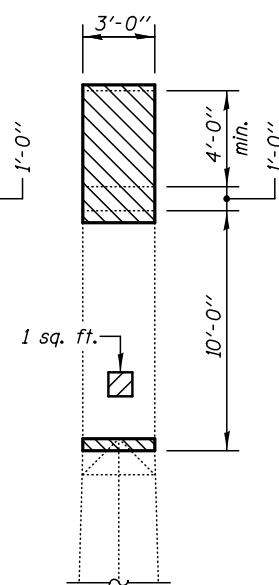
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT MISCELLANEOUS DETAILS
STRUCTURE NO. 030-3007**

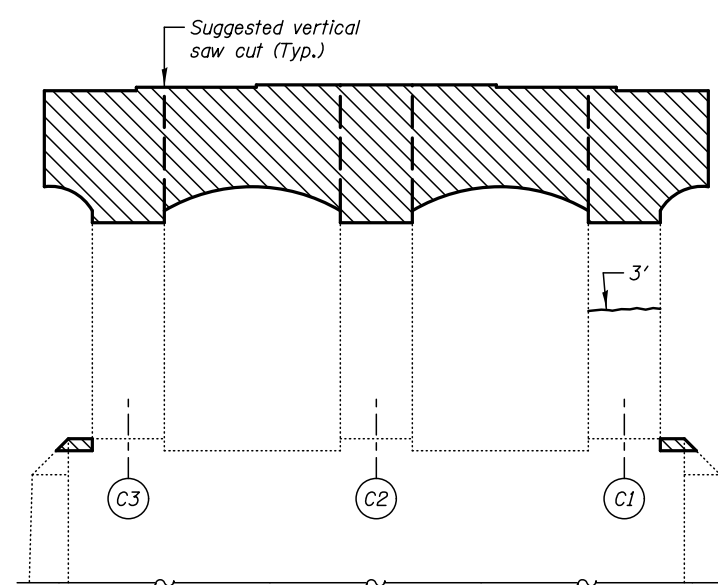
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893	14-00080-00-BR	GALLATIN	92	55
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



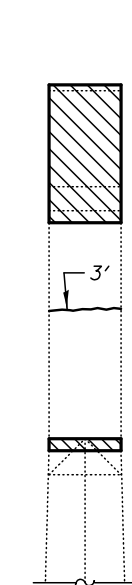
**PIER 1
WEST ELEVATION**
(Looking East)



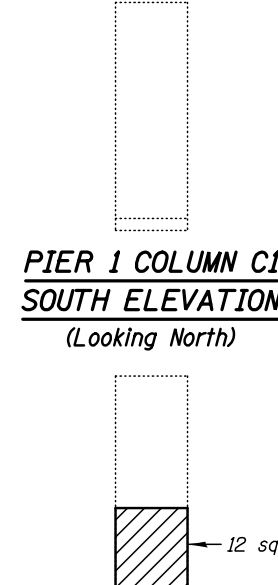
**PIER 1
SOUTH END VIEW**
(Looking North)



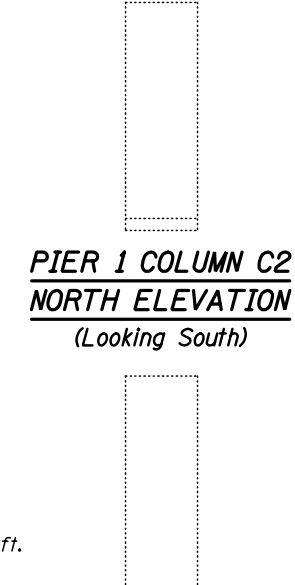
**PIER 1
EAST ELEVATION**
(Looking West)



**PIER 1
NORTH END VIEW**
(Looking South)



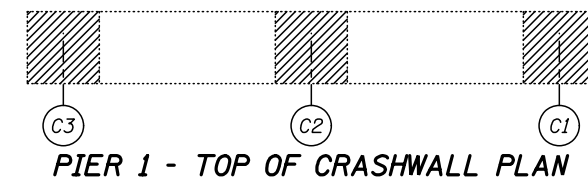
**PIER 1 COLUMN C1
SOUTH ELEVATION**
(Looking North)



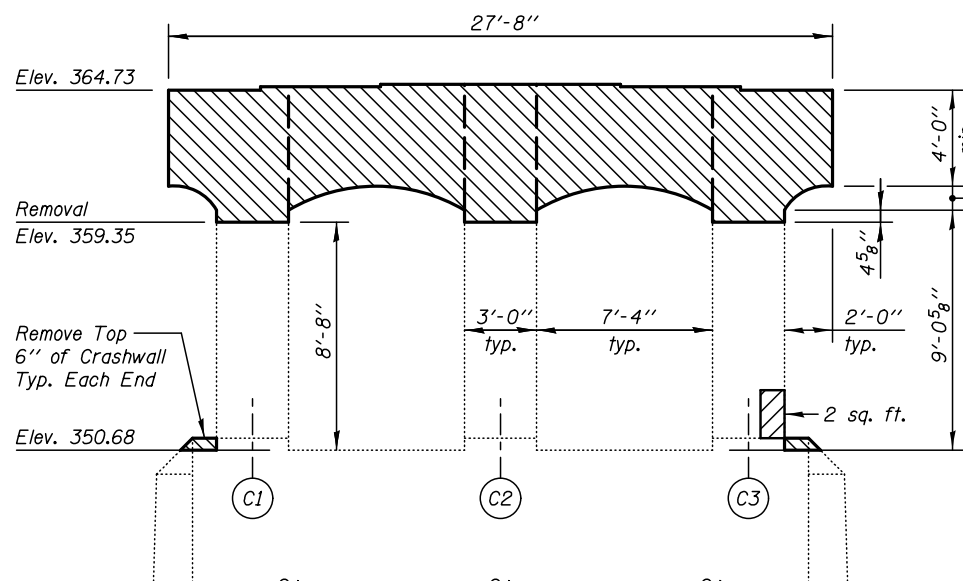
**PIER 1 COLUMN C2
NORTH ELEVATION**
(Looking South)

**PIER 1 COLUMN C2
SOUTH ELEVATION**
(Looking North)

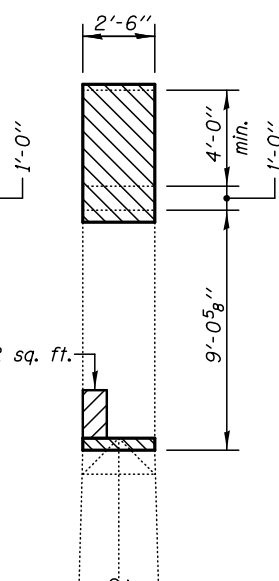
**PIER 1 COLUMN C3
NORTH ELEVATION**
(Looking South)



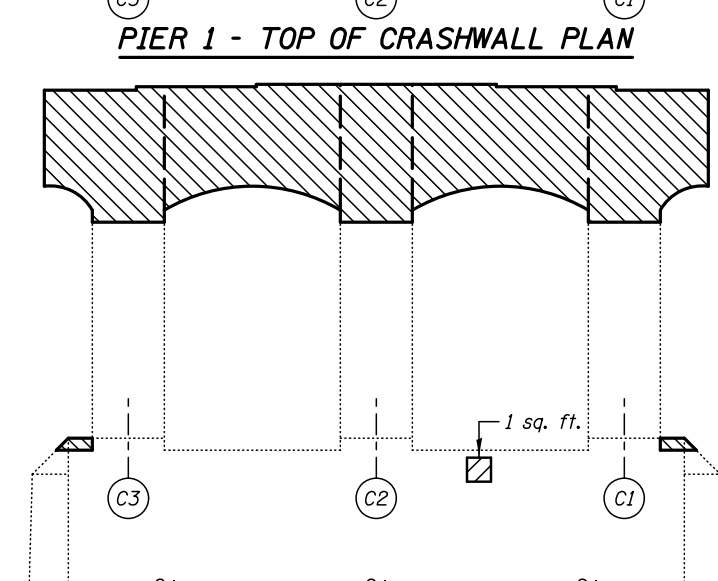
PIER 1 - TOP OF CRASHWALL PLAN



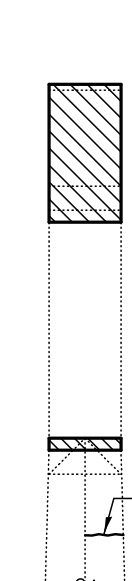
**PIER 2
WEST ELEVATION**
(Looking East)



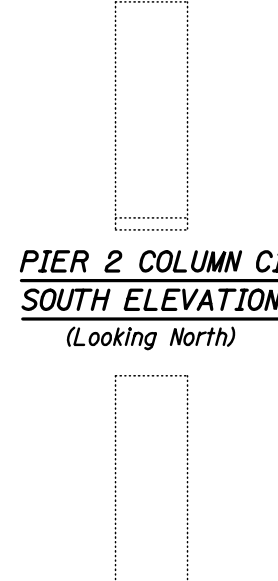
**PIER 2
SOUTH END VIEW**
(Looking North)



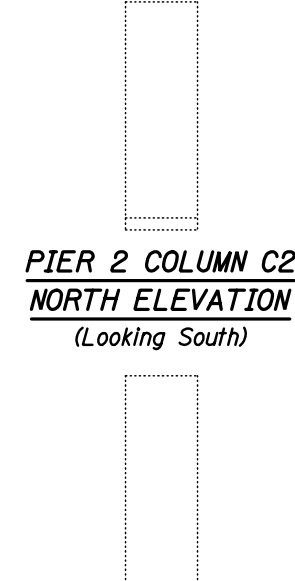
**PIER 2
EAST ELEVATION**
(Looking West)



**PIER 2
NORTH END VIEW**
(Looking South)



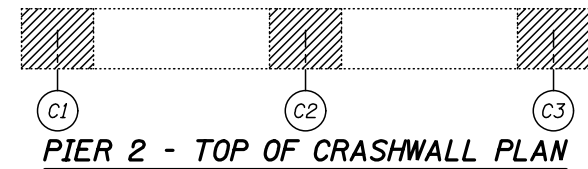
**PIER 2 COLUMN C1
SOUTH ELEVATION**
(Looking North)



**PIER 2 COLUMN C2
NORTH ELEVATION**
(Looking South)

**PIER 2 COLUMN C2
SOUTH ELEVATION**
(Looking North)

**PIER 2 COLUMN C3
NORTH ELEVATION**
(Looking South)



PIER 2 - TOP OF CRASHWALL PLAN

SUGGESTED REMOVAL SEQUENCE

In order to preserve the existing #10 vertical bars in the columns for reuse in the proposed cap, the following pier cap removal sequence is suggested.

1. Saw cut the pier cap vertically at the column edges.
2. Remove the pier cap between the columns.
3. Carefully remove the concrete over the columns, working from the top down. Remove horizontal ties as they are encountered.

Notes

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

The Engineer to verify repair areas and quantities prior to the start of pier cap removal activities.

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete
- Concrete Removal

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	26.0
Epoxy Crack Injection	Foot	13.0
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	22.0

PLOT DATE = 4/6/2021

KNIGHT
Engineers & Architects

SCALE - NONE
DATE - 4/7/2021

DESIGNED - TB
CHECKED - PRD
DRAWN - TB
CHECKED - PRD

REVISED
REVISED
REVISED
REVISED

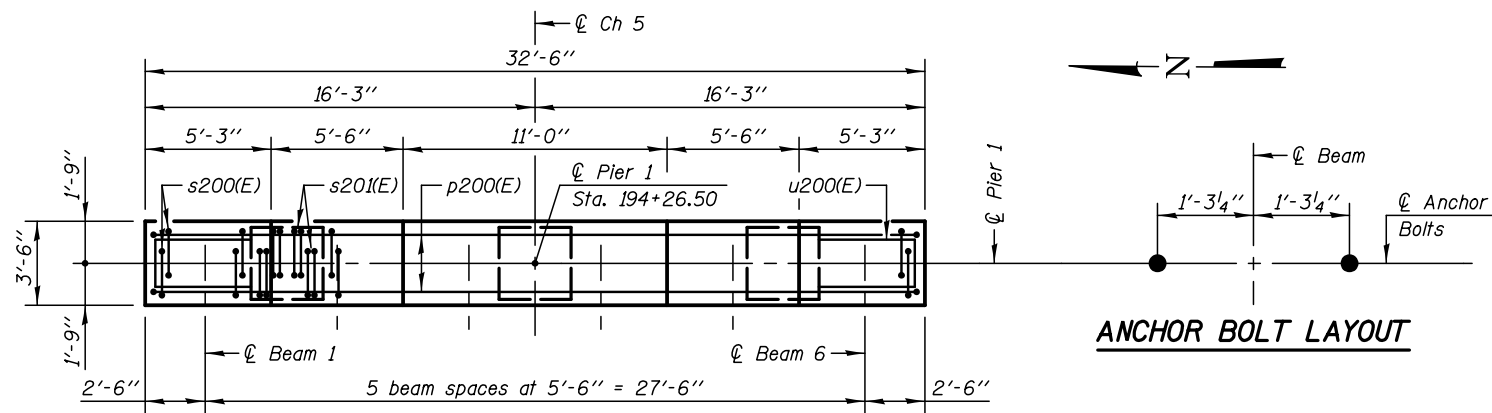
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER REMOVAL AND REPAIR
STRUCTURE NO. 030-3007**

SHEET S-25 OF 31 SHEETS

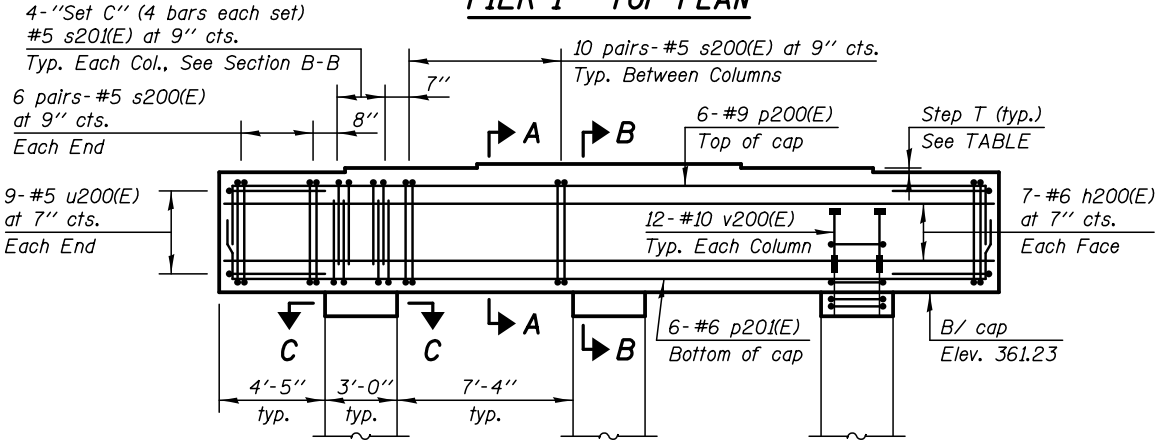
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	56
CONTRACT NO. 99612				

ILLINOIS FED. AID PROJECT

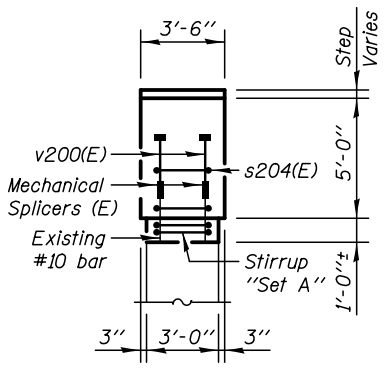


PIER 1 - TOP PLAN

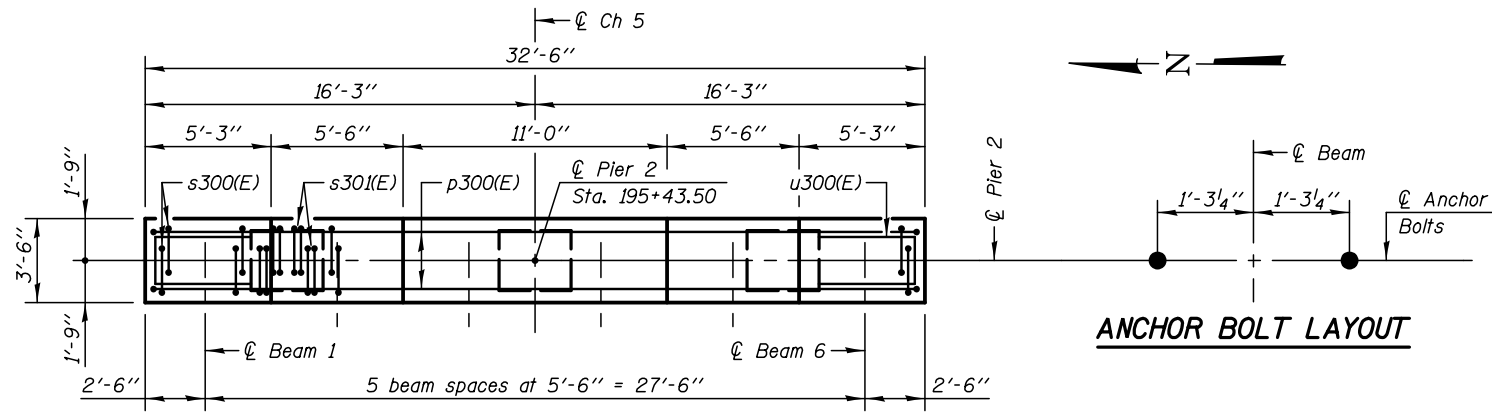
ANCHOR BOLT LAYOUT



PIER 1 - ELEVATION

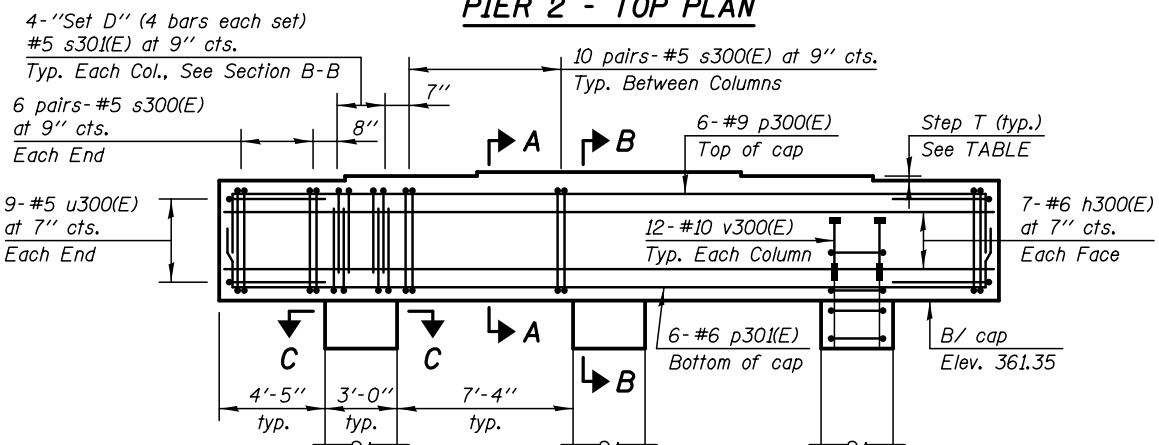


PIER 1 - END VIEW

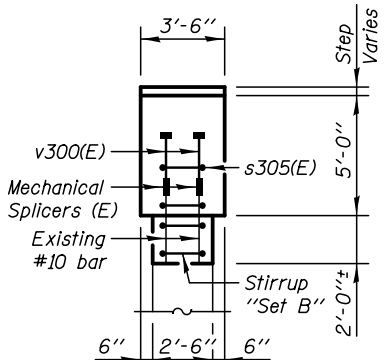


PIER 2 - TOP PLAN

ANCHOR BOLT LAYOUT



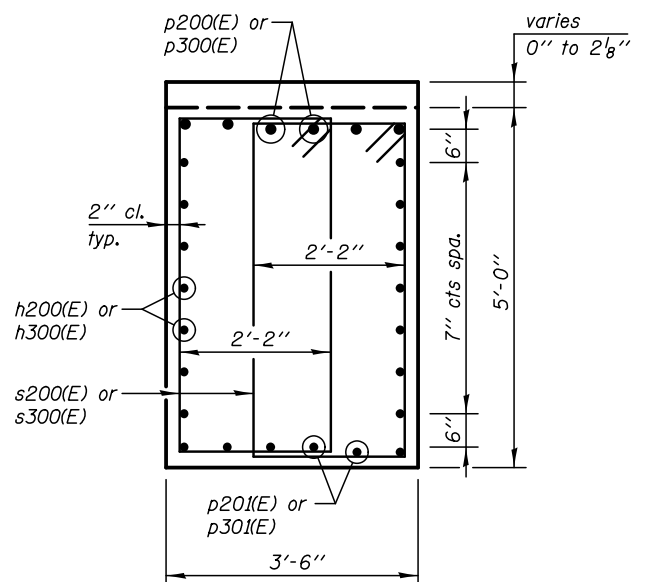
PIER 2 - ELEVATION



PIER 2 - END VIEW

PIER 1 BEARING SEAT ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP T- inch
1	366.23	1 1/8
2	366.32	1
3	366.41	0
4	366.41	1
5	366.32	1 1/8
6	366.23	



SECTION A-A

STIRRUP TABLE

	"SET A"	"SET B"
Location	Pier 1	Pier 2
No. of Sets	3	6
Spacing	4"	4"
Bars per Set		
Hoops	1- #5 s202(E)	1- #5 s302(E)
Ties	4- #5 s203(E)	2- #5 s303(E) 2- #5 s304(E)

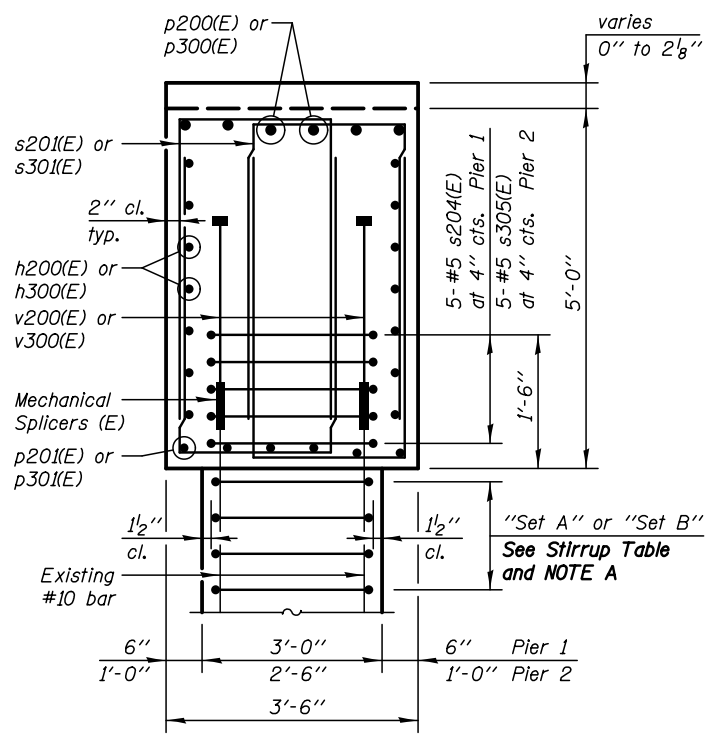
See Section C-C for stirrup hoop and tie placement.

NOTE A

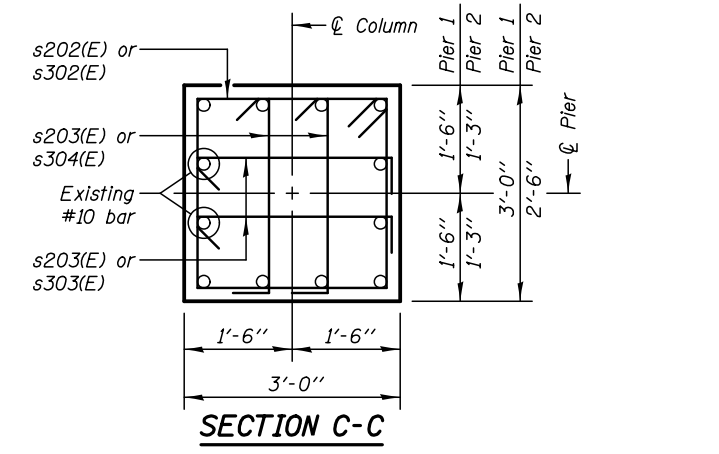
Place s202(E) and s302(E) hoop bars before installing mechanical splicers. Hoops may not fit over the mechanical splicers. s204(E) and s305(E) bars MAY NOT be substituted for s202(E) and s302(E) bars, respectively.

PIER 2 BEARING SEAT ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP T- inch
1	366.35	1 1/8
2	366.44	1
3	366.53	0
4	366.53	1
5	366.44	1 1/8
6	366.35	



SECTION B-B



SECTION C-C

Notes

- Space reinforcement in cap to miss anchor bolts.
- Pour steps monolithically with cap.
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
- See Sheet S-27 for Mechanical Splicer Detail, bar bending details and Bill of Materials.

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISIONS
CHECKED - PRD	REVISIONS
DRAWN - TB	REVISIONS
CHECKED - PRD	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER RECONSTRUCTION
STRUCTURE NO. 030-3007

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	57
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

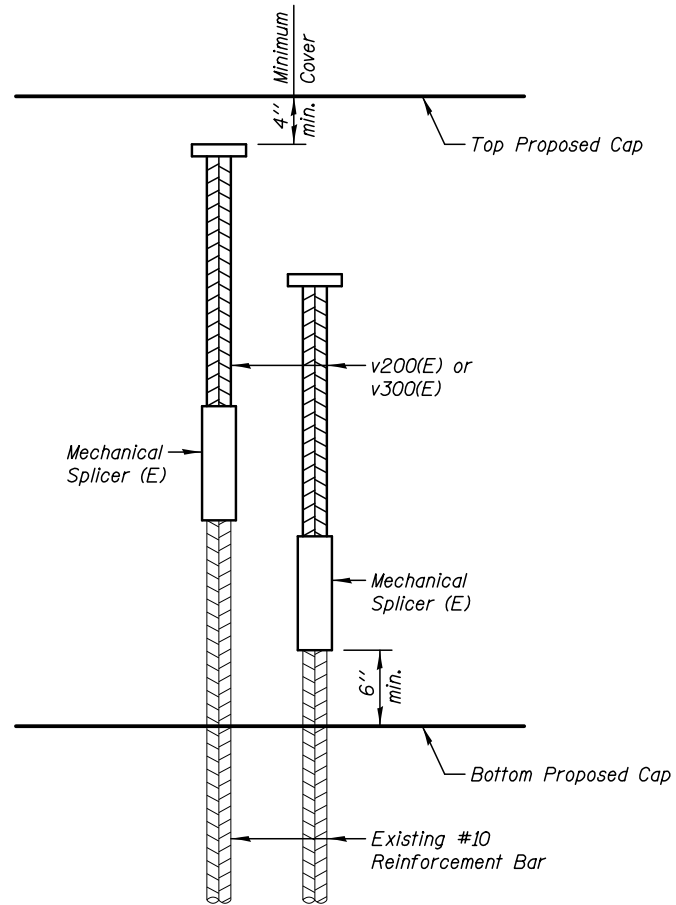
SHEET S-26 OF 31 SHEETS

**PIER 1
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h200(E)	14	#6	32'-2"	—
p200(E)	6	#9	37'-8"	┌┐
p201(E)	6	#6	37'-8"	┌┐
s200(E)	64	#5	14'-7"	□
s201(E)	48	#5	11'-2"	□
s202(E)	9	#5	11'-11"	□
s203(E)	36	#5	3'-9"	┌┐
s204(E)	15	#5	12'-3"	□
u200(E)	18	#5	10'-5"	┌┐
v200(E)	36	#10	2'-0"	┌┐
Reinforcement Bars, Epoxy Coated			Pound	4270
Concrete Structures			Cu. Yd.	23.0
Mechanical Splicers			Each	36

**PIER 2
BILL OF MATERIAL**

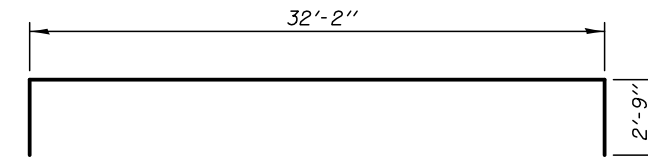
BAR	NO.	SIZE	LENGTH	SHAPE
h300(E)	14	#6	32'-2"	—
p300(E)	6	#9	37'-8"	┌┐
p301(E)	6	#6	37'-8"	┌┐
s300(E)	64	#5	14'-7"	□
s301(E)	48	#5	11'-2"	□
s302(E)	18	#5	10'-11"	□
s303(E)	36	#5	3'-9"	┌┐
s304(E)	36	#5	3'-3"	┌┐
s305(E)	15	#5	11'-3"	□
u300(E)	18	#5	10'-5"	┌┐
v300(E)	36	#10	2'-0"	┌┐
Reinforcement Bars, Epoxy Coated			Pound	4470
Concrete Structures			Cu. Yd.	24.0
Mechanical Splicers			Each	36



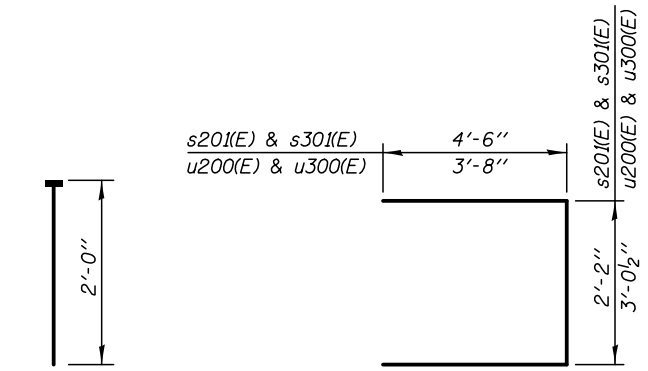
MECHANICAL SPLICER DETAIL

Note
Stagger Mechanical Splicers on alternating existing #10 bars as shown. If req'd, to maintain minimum cover, v200(E) or v300(E) bars may be cut.

Location	Bar size	No. assemblies required
Pier 1	#10	36
Pier 2	#10	36



**BARS p200(E), p201(E),
p300(E) & p301(E)**

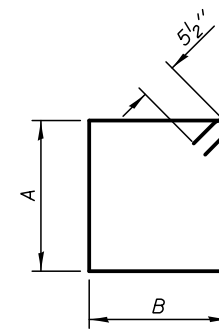


**BARS v200(E)
& v300(E)
(Headed)**

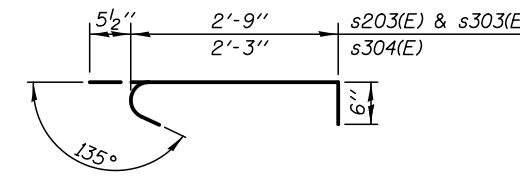
**BARS s201(E), s301(E),
u200(E) & u300(E)**

A & B DIMENSIONS

BAR	A	B
s200(E)	4'-8"	2'-2"
s202(E)	2'-9"	2'-9"
s204(E)	2'-10"	2'-10"
s300(E)	4'-8"	2'-2"
s302(E)	2'-3"	2'-9"
s305(E)	2'-4"	2'-10"



**BARS s200(E), s202(E), s204(E),
s300(E), s302(E) & s305(E)**



BARS s203(E), s303(E) & s304(E)

Notes

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".

See approved list of mechanical splicers for alternatives.

PLOT DATE = 4/6/2021



DESIGNED - TB	REVISED
CHECKED - PRD	REVISED
DRAWN - TB	REVISED
CHECKED - PRD	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER RECONSTRUCTION DETAILS
STRUCTURE NO. 030-3007**

SHEET S-27 OF 31 SHEETS

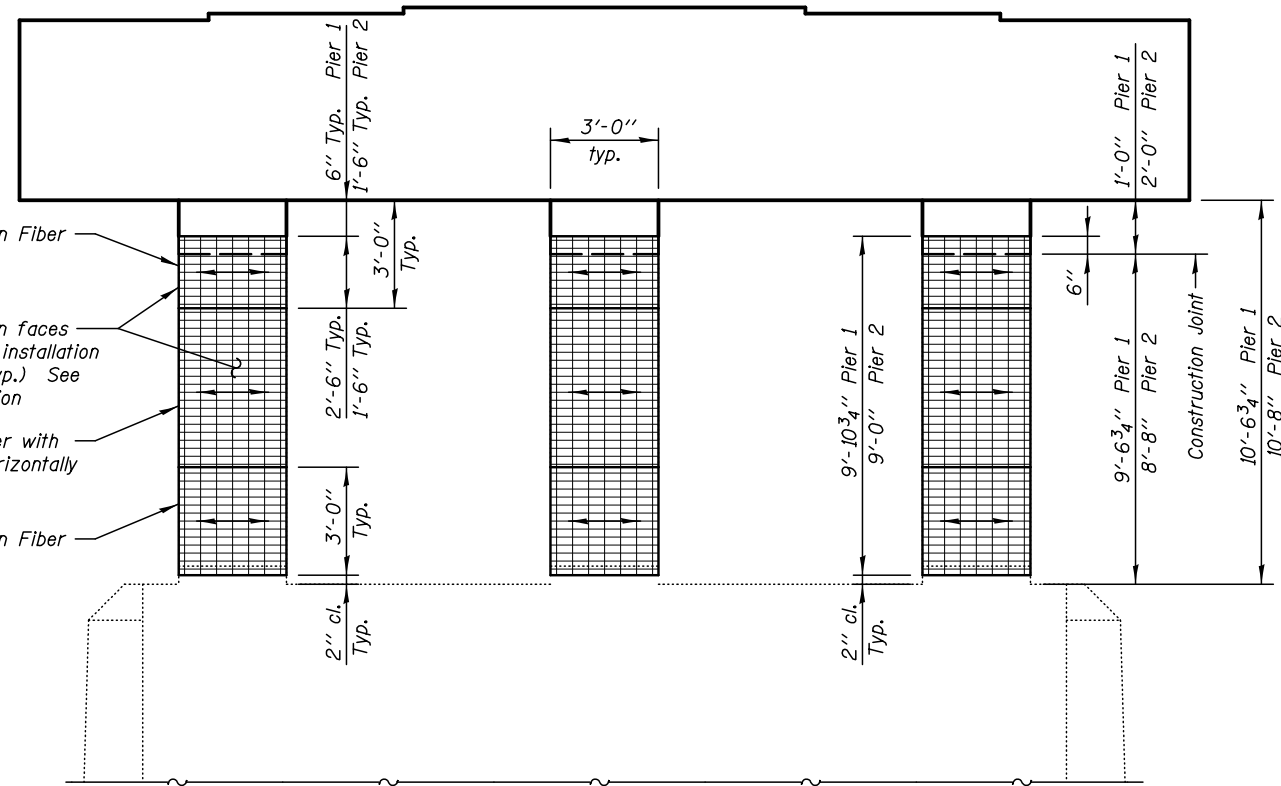
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	58
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

0.38" Min. Total Thickness Carbon Fiber with fiber oriented horizontally
Typ Top of Column

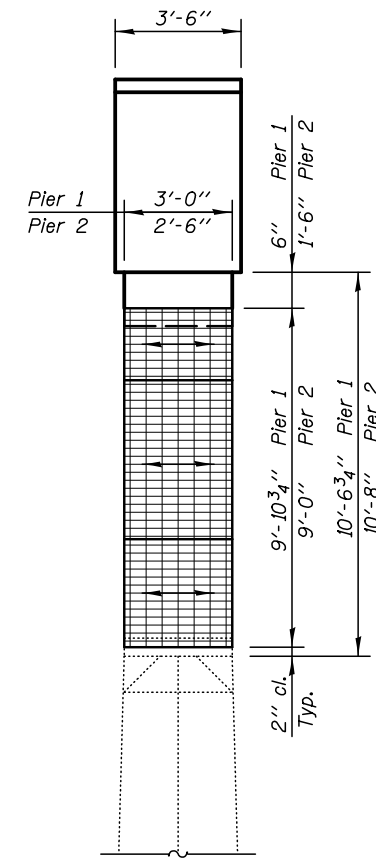
Apply Acrylic Coating to all column faces the entire height of column after installation and curing of the Fiber Wrap. (Typ.) See FRP Strengthening Special Provision

1 Ply Carbon Fiber with fiber oriented horizontally
Typ Mid Column

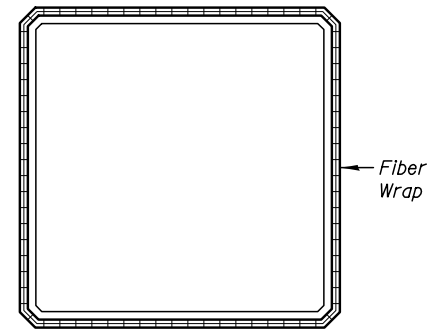
0.38" Min. Total Thickness Carbon Fiber with fiber oriented horizontally
Typ Bottom of Column



ELEVATION



END VIEW



TYPICAL SECTION THRU COLUMN

Notes:

Carbon Fiber may not be substituted with E-Glass Fiber.

BILL OF MATERIAL

Item	Unit	Total
Fiber Wrap	Sq. Ft.	668.0
Acrylic Coating	Sq. Yd.	164.0

PLOT DATE = 6/2/2021

KNIGHT
Engineers & Architects

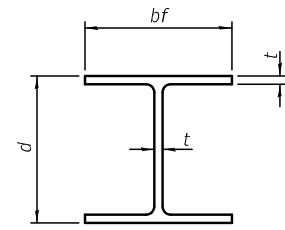
DESIGNED - TB	REVISED
CHECKED - PRD	REVISED
DRAWN - TB	REVISED
CHECKED - PRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER SEISMIC RETROFIT
STRUCTURE NO. 030-3007

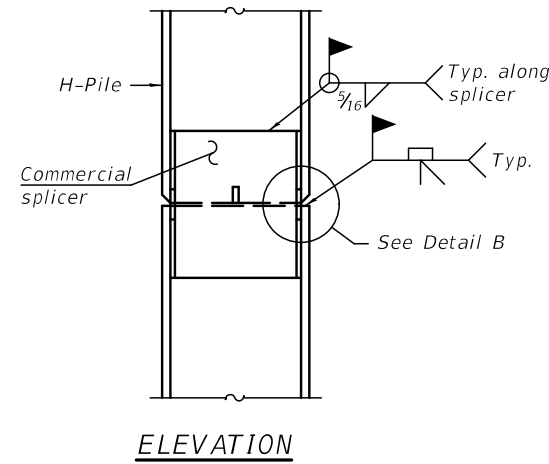
SHEET S-28 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	59
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

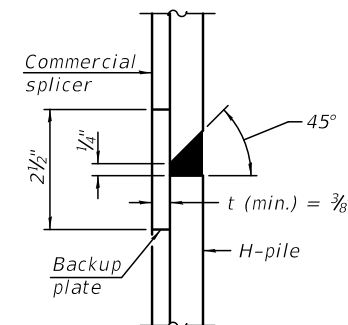


STEEL PILE TABLE

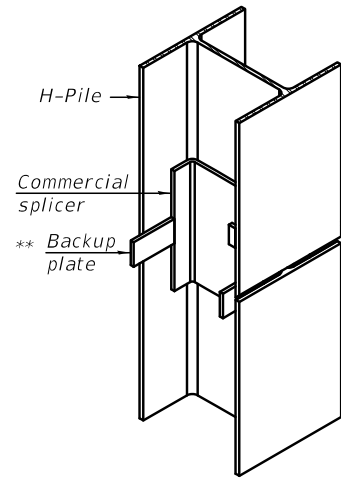
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x204	18 1/4"	18 1/8"	1 1/8"	36"
x181	18"	18"	1"	36"
x157	17 3/4"	17 7/8"	7/8"	36"
x135	17 1/2"	17 3/4"	3/4"	36"
HP 16x183	16 1/2"	16 1/2"	1 1/8"	30"
x162	16 1/4"	16 1/8"	1"	30"
x141	16"	16"	7/8"	30"
x121	15 3/4"	15 5/8"	3/4"	30"
x101	15 1/2"	15 3/4"	5/8"	30"
x88	15 3/8"	15 1/16"	9/16"	30"



ELEVATION

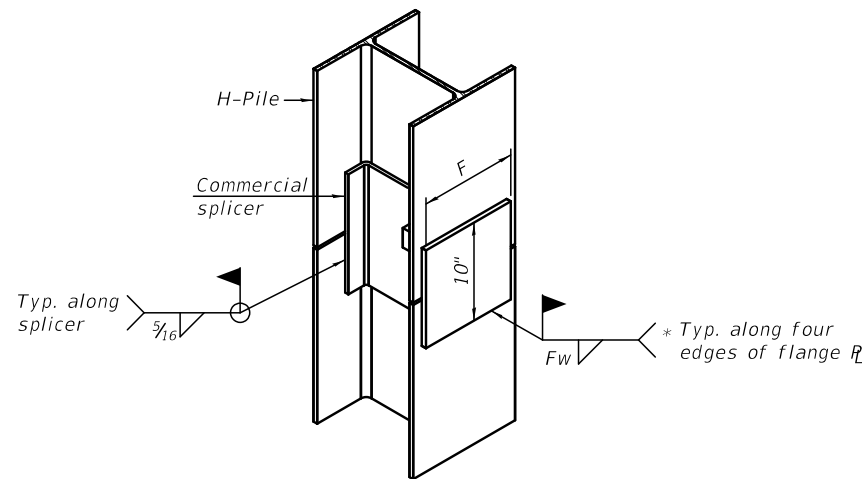


DETAIL "B"



ISOMETRIC VIEW

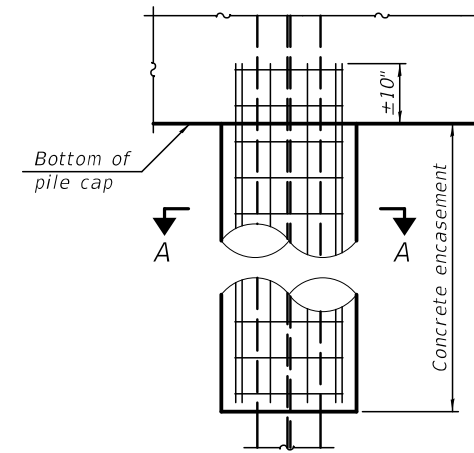
WELDED COMMERCIAL SPLICE



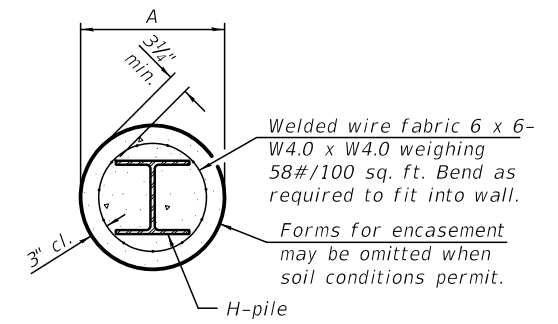
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

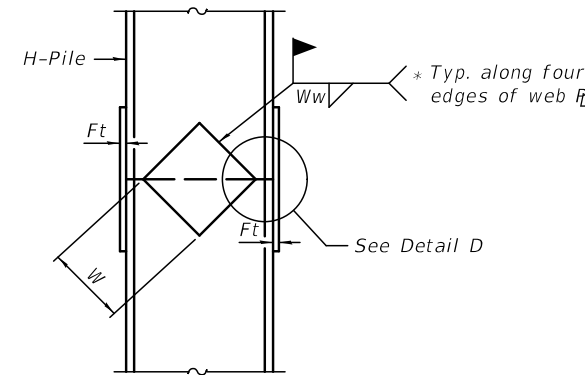


ELEVATION

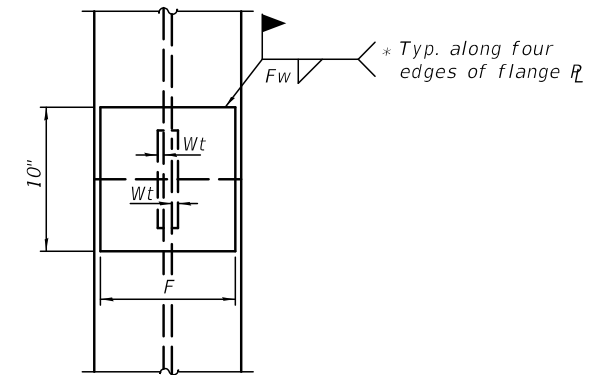


SECTION A-A

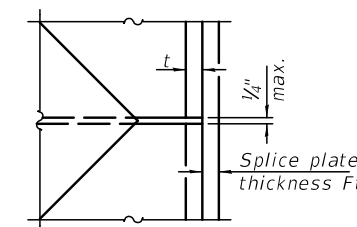
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



ELEVATION



END VIEW



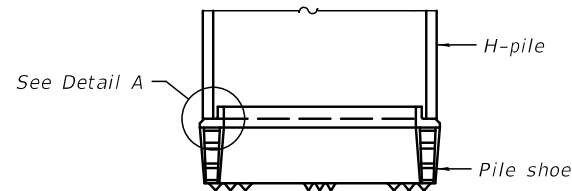
DETAIL D

WELDED PLATE FIELD SPLICE

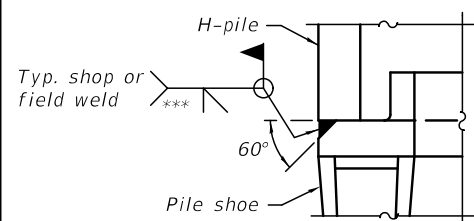
Designation	F	Ft	Fw	W	Wt	Ww
HP 18x204	16 1/2"	1 1/4"	1 1/8"	9 1/2"	7/8"	3/4"
x181	16 1/2"	1 1/8"	1"	9 1/2"	7/8"	3/4"
x157	16 1/2"	1"	7/8"	9 1/2"	7/8"	3/4"
x135	16 1/2"	7/8"	3/4"	9 1/2"	7/8"	3/4"
HP 16x183	15"	1 1/4"	1 1/8"	8 1/4"	7/8"	3/4"
x162	15"	1 1/8"	1"	8 1/4"	7/8"	3/4"
x141	15"	1"	7/8"	8 1/4"	7/8"	3/4"
x121	14"	7/8"	3/4"	8 1/4"	5/8"	1/2"
x101	14"	3/4"	5/8"	8 1/4"	5/8"	1/2"
x88	14"	3/4"	5/16"	8 1/4"	5/8"	1/2"

Notes

If field splice of piles is utilized, shop drawings shall be submitted to IDOT Bureau of Bridges and Structures for review and approval.



ELEVATION



DETAIL A

SHOE ATTACHMENT

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

PLOT DATE = 3/26/2021

KNIGHT
Engineers & Architects

DESIGNED - TB	REVISOR
CHECKED - PRD	REVISOR
SCALE - NONE	REVISOR
DATE - 3/26/2021	REVISOR

DESIGNED - TB	REVISOR
CHECKED - PRD	REVISOR
DRAWN - TB	REVISOR
CHECKED - PRD	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 030-3007

SHEET S-29 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	60
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

Bridge Foundation Boring Log

Project: H-15020 Bridge FAS 893 over N Fork Saline River Date: 03/31/2015
Section: Station: Bored by: B. Schwartz
Structure: 030-3007 Checked By: T. Holcomb
County: Gallatin

Boring No. 1	Station:	Offset:	Surface Water Elev.				Ground Water Elev.						
			Elevation	Z	Qu	w %	Elevation	Z	Qu	w %			
Ground Surface 98.7			0										
3" A-3 Surface over 12" Cr. Stone													
Gray Mottled Brown Silty CLAY (A-6)													
			5	1.0B	21					-25	16	3.3S	21
			6	1.7B	20						24	4.7S	17
			8	0.8B	19						17	3.1S	22
			5	0.9B	22								
			5	1.3B	21						27	6.5S	19
			6	0.7B	19								
			8	0.9B	30						24	4.4S	23
			12	1.4B	23								
			11	2.1B	22								

77.7
Brown Mottled Gray Silty CLAY (A-6)

N = Standard Penetration Test Blows per foot to drive 2" O.D.
Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu - Unconfined Compressive Strength in tons/sq.ft.
w - Water Content - percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

Bridge Foundation Boring Log

Project: H-15020 Bridge FAS 893 over N Fork Saline River Date: 03/31/2015
Section: Station: Bored by: B. Schwartz
Structure: 030-3007 Checked By: T. Holcomb
County: Gallatin

Boring No. 1	Station:	Offset:	Surface Water Elev.				Ground Water Elev.						
			Elevation	Z	Qu	w %	Elevation	Z	Qu	w %			
clay (continued)													
shole (continued)													
End of Boring @ -69.0'													
Gray SHALE with limestone													
			59	--	13								
			5	126	-	15							
			100	/2	--	3							
			36.7										
			5	126	-	15							
			100	/2	--	3							
			36.7										
			5	126	-	15							
			100	/2	--	3							

Recovery = 100%
RQD = 90%

Recovery = 100%
RQD = 83%

N = Standard Penetration Test Blows per foot to drive 2" O.D.
Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu - Unconfined Compressive Strength in tons/sq.ft.
w - Water Content - percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer



Boring 1 59' to 69'

PLOT DATE = 3/26/2021

	DESIGNED - HFE	REVISED
	CHECKED - TB	REVISED
	SCALE - NONE	REVISED
	DATE - 3/26/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG 1
STRUCTURE NO. 030-3007
SHEET S-30 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	61
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

Bridge Foundation Boring Log

Bridge Foundation Boring Log

Project: H-15020 Bridge FAS 893 over N Fork Saline River Date: 03/31/2015
Section: _____ Station: _____ Bored by: B. Schwartz
Structure: 030-3007 _____
County: Gallatin _____ Checked By: T. Holcomb

Project: H-15020 Bridge FAS 893 over N Fork Saline River Date: 03/31/2015
Section: _____ Station: _____ Bored by: B. Schwartz
Structure: 030-3007 _____
County: Gallatin _____ Checked By: T. Holcomb

Boring No.: <u>2</u>	Station: _____	Offset: _____	Surface Water Elev. _____				Ground Water Elev. _____					
			Elevation	N	Qu	w %	Elevation	N	Qu	w %		
Ground Surface <u>97.6</u>			0									
3" A-3 Surface over 12" Cr. Stone												
Crushed Stone			6	--	6							
Gray Silty CLAY (A-6)			94.1									
			-5	5	0.7B	23						
Gray Mottled Brown Silty CLAY (A-6)												
				8	2.0B	20						
Brown Mottled Gray Silty CLAY (A-6)												
			-10	5	0.7B	23						
				4	0.3B	24						
			-15	3	0.4B	25						
				2	0.3B	23						
			-20	5	1.1B	24						
				8	2.0B	21						

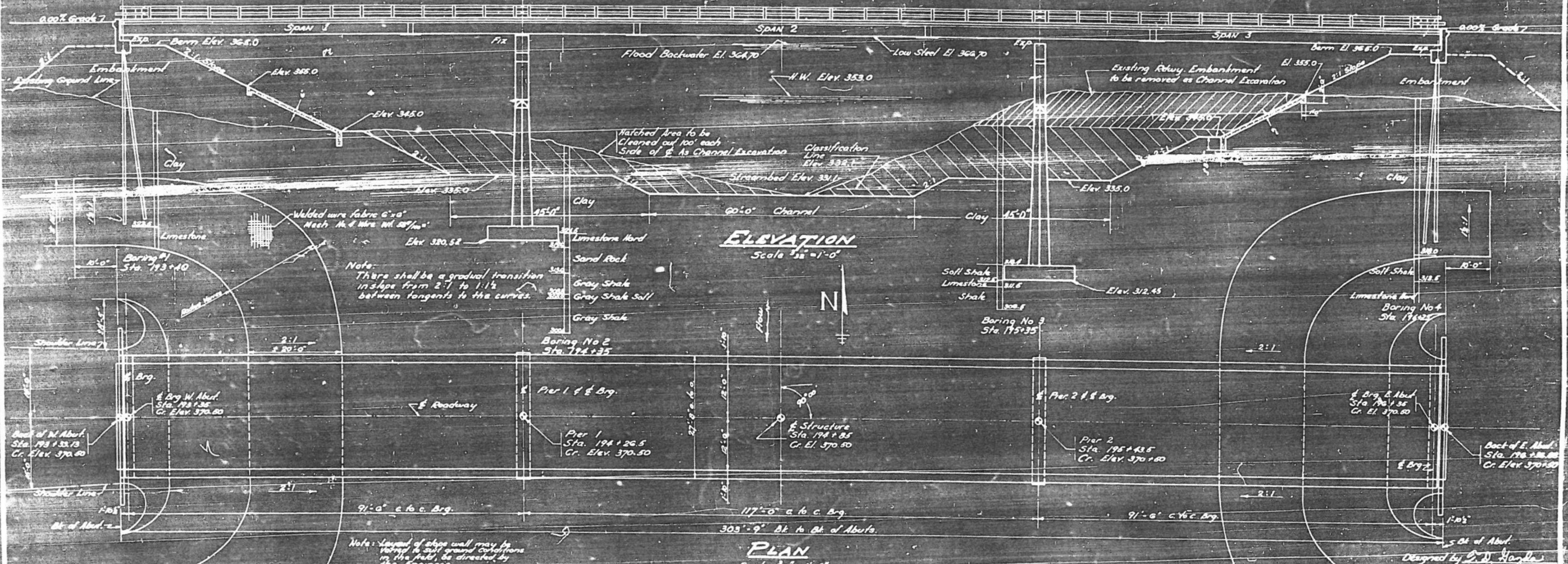
Boring No.: <u>2</u>	Station: _____	Offset: _____	Surface Water Elev. _____				Ground Water Elev. _____					
			Elevation	N	Qu	w %	Elevation	N	Qu	w %		
clay (continued)												
				45	9	1.5S	25					
Gray SHALE												
				49.1	100	2"	--	10				
End of Boring @ -54.0'												
				43.6	100	1"	--	6				

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu - Unconfined Compressive Strength in tons/sq.ft.
w - Water Content - percentage of oven dry weight - %
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu - Unconfined Compressive Strength in tons/sq.ft.
w - Water Content - percentage of oven dry weight - %
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

PLOT DATE = 3/26/2021

Existing Structure
 Total length, 366'-0", N. River, Wood H.
 Sub-structure consists of 2 piers of 3'-0" C.C.
 1 Pier of Double Piers, all piers on mud
 sills, 2 Piers 2'-0" Steel Cylinders filled
 with concrete.
 Spans 3 simple spans composed of 8'-8" I Beams
 and 2'-8" L's, 1 Pony Truss, 60' Long, 9'-0"
 deep, Single Span, 6' @ 24'-0", 1 @ 20' and
 one @ 22'; Handrail-2'-8" B.



ELEVATION
 Scale 1/32" = 1'-0"

PLAN
 Scale 1/32" = 1'-0"

GENERAL NOTES

- Class X Concrete shall be used throughout except as noted.
- Minimum Concrete shall be used in the End Posts.
- Concrete shall be finished in accordance with Art. 2118 (c) of the Standard Specs. and shall be poured in one continuous operation on either side of the longitudinal construction joints.
- All connections shall be riveted except as noted.
- All rivets 1/2" and over shall be spaced as noted.
- All steel surfaces shall be sand blasted, reamed, and match marked. For 1/2" rivets sub-punch to 1/4" from 1/2" dia. All I-Beams shall be shop assembled to their proper grade and alignment with or without diaphragms, inspected and reamed while so assembled.

Anchor bolts shall be set before installing diaphragms over piers and abutments. Welding shall comply with Art. 2118 (c) of the Standard Specs.
 All metal connections including railpost anchors are included for payment as metal handrail. The number of bolts, feet is measured, but is based on concrete footings.
 Two 1/2" test piles shall be driven in permanent location as indicated by the Engineer, before ordering the remainder of the piling.
 Boring logs are shown on the drawings only as a guide to the location of estimating soil conditions which may be encountered in the field.
 Before the superstructure is placed and after the abutment piles are driven, the embankment shall be constructed in accordance with Art. 2118 of the Standard Specifications and as directed by the Engineer.

TOTAL ~ FILL OF MATERIAL

ITEM	UNIT	QTY	EST. COST	TOTAL
Class X Concrete	Cu Yds	450.8	22,370	22,370
Handrail Concrete	Cu Yds	1.1	11	11
Stone Walls	Sq Yds	933	933	933
Reinforcement Bars	Lbs	34,200	5,512	39,712
Structural Steel	Lbs	3,778	57,120	60,898
Metal Handrail	Lbs	581.8	581.8	581.8
Welding	Feet	1	1	1
Class A Excavation for Structures	Cu Yds	132	132	132
Class B Excavation for Structures	Cu Yds	647	647	647
Channel Excavation	Cu Yds	7445	7445	7445
1/2" Metal Small G.I.P. Conc. Piles	Lbs	816	816	816
Roll Piles	Feet	2	2	2
Roll Excavation	Cu Yds	16.0	160	160
Removal of Existing Structures	Feet	1	1	1

WATERWAY INFORMATION

Drainage Area: 145,000 Acres
 Character: High waterway
 Seasonal Opening: 1000 ft
 Flood Frequency: 100 year
 Assumed C (Channel): 0.25

DESIGN STRESSES

16,000 lbs/sq in. (Steel)
 20,000 lbs/sq in. (Concrete)
 1,000 lbs/sq in. (Soil)
 100 lbs/sq in. (Wind)
 11.5 ft/s

STATION 1985
 NORTH FORK SALINE RIVER
 BUILT 1945
 F.A.S. PROJ. NO. S-688(2)
 F.A.S. PROJECT S-688(2)
 LEADVILLE, MISS. 310

LETTERING FOR NAME PLATE
 See Standard 2118

STRUCTURAL DESIGN & PLANS
 BY
 CK WILLET CONSULTING ENGINEERS
 DIXON ILLINOIS
 FOR
 ROBERT BROWN
 CONSULTING ENGINEER
 HARRISBURG ILLINOIS.

GENERAL PLAN & ELEVATION

ASHLEY BRIDGE
 OVER NORTH FORK SALINE RIVER
 F.A.S. PROJ. NO. S-688(2)
 F.A.S. RT. 693 SECTION 22-B
 GALLATIN CO. TENN.

Note
 Existing Plan elevations have been adjusted by -0.6'

FOR INFORMATION ONLY

PLOT DATE = 3/26/2021

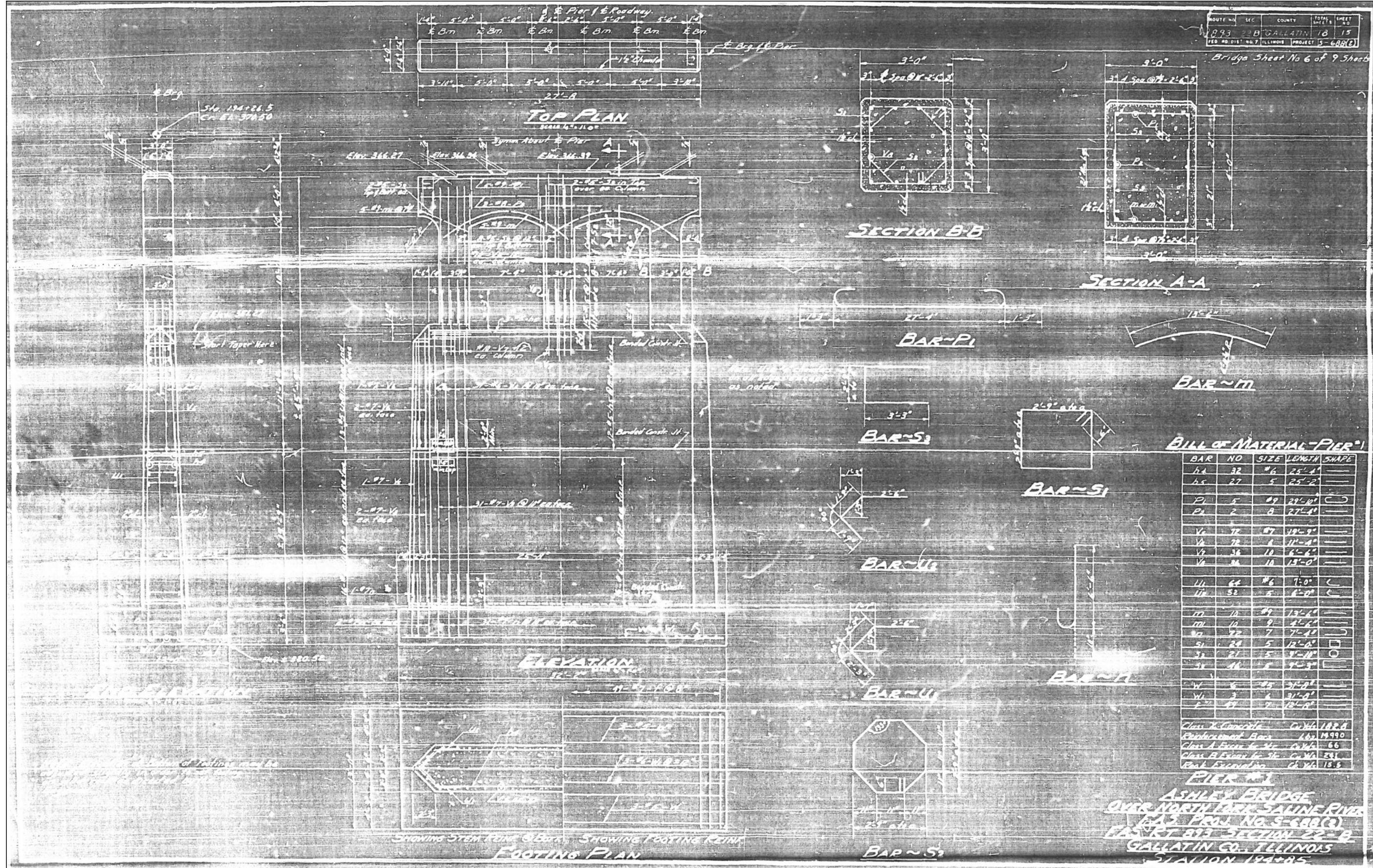
KNIGHT
 Engineers & Architects

DESIGNED -	REVISOR
CHECKED -	REVISOR
SCALE - NONE	REVISOR
DATE - 3/26/2021	REVISOR
DRAWN - TB	REVISOR
CHECKED -	REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - GENERAL PLAN & ELEVATION
 STRUCTURE NO. 030-3007
 SHEET SX-1 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	14-00080-00-BR	GALLATIN	92	63
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				



BAR NO	SIZE	LENGTH	SHAPE
h4	32	#6	25'-4"
h5	27	5	25'-2"
P1	5	89	22'-10"
P2	2	8	27'-4"
V6	72	87	12'-9"
V7	72	1	12'-8"
V8	36	11	6'-6"
V9	36	11	15'-0"
U1	62	#6	7'-0"
U2	52	5	8'-0"
M	10	49	15'-11"
M1	10	9	21'-6"
M2	22	7	7'-11"
S1	24	5	12'-6"
S2	21	5	9'-11"
S3	21	5	9'-3"
W	6	25	3'-7"
Y1	3	6	31'-9"
Y2	29	7	28'-8"

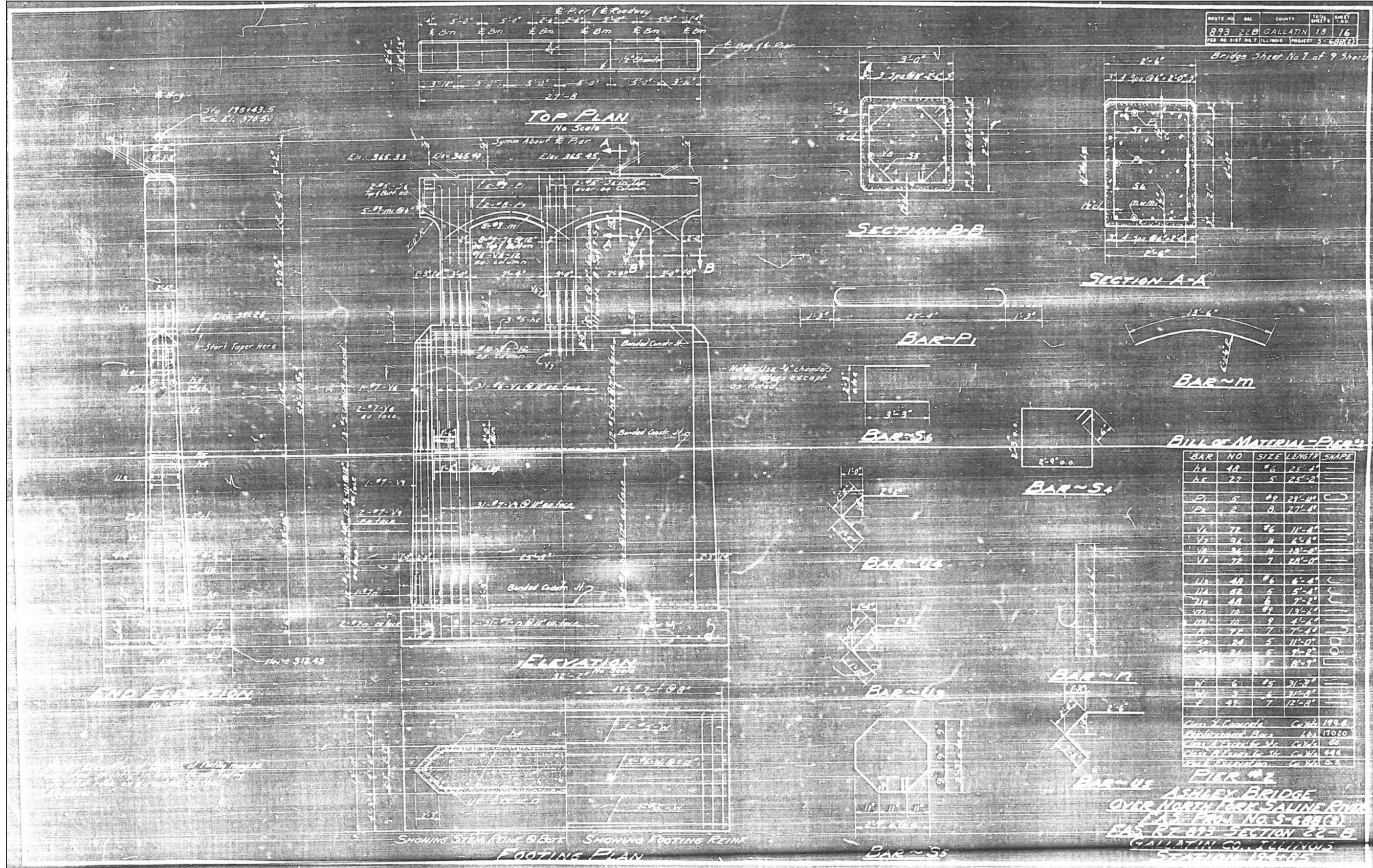
Class A Concrete C-VA 182.6
 Reinforcement Bars 162 14990
 Class A Steel for Str. C-VA 66
 Class B Steel for Str. C-VA 231
 Reinforcement C-VA 13.5

PIER #1
ASHLEY BRIDGE
OVER NORTH FORK SALINE RIVER
ILL. PROJ. NO. 5-688(3)
PART #13 SECTION 22-B
GALLATIN CO. ILLINOIS
STATION 144+85

Note
 Existing Plan elevations have been adjusted by -0.6'

FOR INFORMATION ONLY

PLOT DATE = 3/26/2021



BILL OF MATERIAL-PIER #2

BAR NO	SIZE	LENGTH	SHAPE
h4	1/2"	25'-1"	—
h5	27	5	25'-2"
P1	5	69	21'-11"
P2	2	0	27'-11"
V1	72	26	11'-4"
V2	36	11	6'-8"
V3	36	11	13'-8"
V4	72	7	28'-0"
U1	48	26	6'-4"
U2	48	5	5'-1"
U3	48	6	7'-2"
U4	10	87	13'-4"
U5	10	9	4'-6"
M	72	7	7'-4"
S1	28	5	11'-0"
S2	28	5	9'-2"
S3	28	5	8'-9"
V	6	55	31'-2"
W	2	6	31'-0"
Z	48	7	12'-9"

Class of Concrete: C-15 @ 199.8
 Replacement Area: 161 @ 17020
 Class of Reinforcing Bar: G-40 @ 66
 Class of Steel in Slab: G-40 @ 66
 Class of Reinforcing: G-40 @ 66

PIER #2
 ASHLEY BRIDGE
 OVER NORTH FORK SALINE RIVER
 I-55 PROJ. NO. 5-688(3)
 EAST RT 893 SECTION 22-B
 GALLATIN CO., ILLINOIS
 SECTION 19445

Note
 Existing Plan elevations have been adjusted by -0.6'

FOR INFORMATION ONLY

PLOT DATE = 3/26/2021

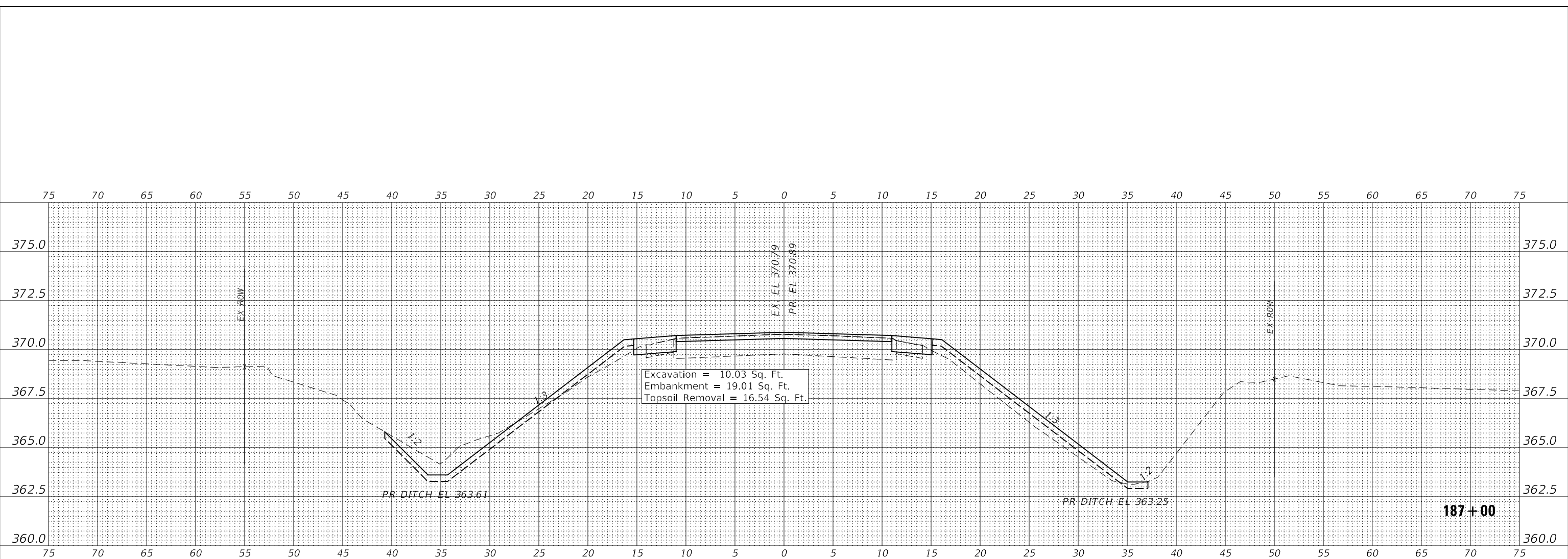
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	SCALE - NONE	REVISIONS
	DATE - 3/26/2021	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

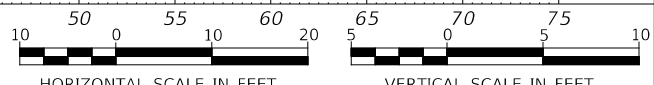
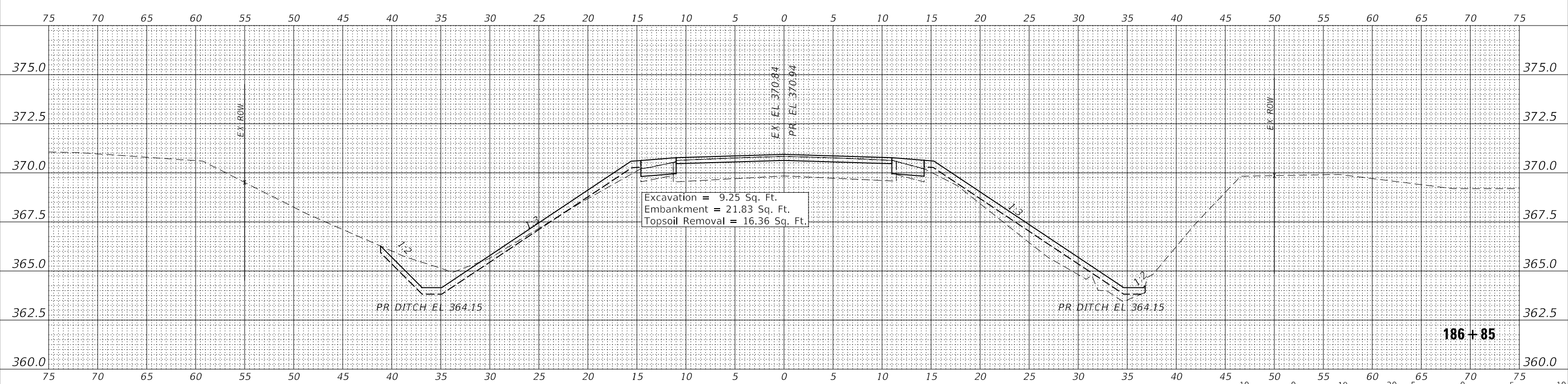
EXISTING PLANS - PIER #2
 STRUCTURE NO. 030-3007
 SHEET SX-3 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	65
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

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



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



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PLOT DATE = 3/26/2021	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

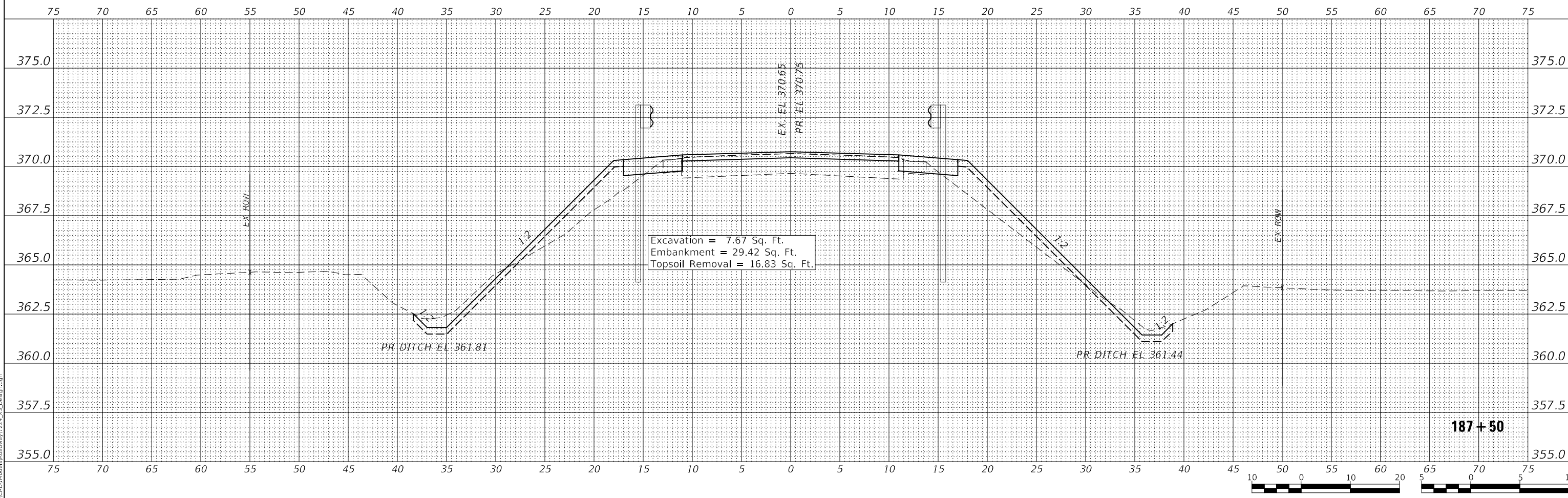
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	66
				CONTRACT NO. 99612
		ILLINOIS	FED. AID PROJECT	

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

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NOTE BOOK NO.	PLOTTED AREAS		
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PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

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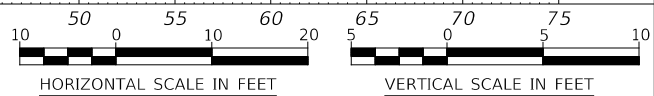
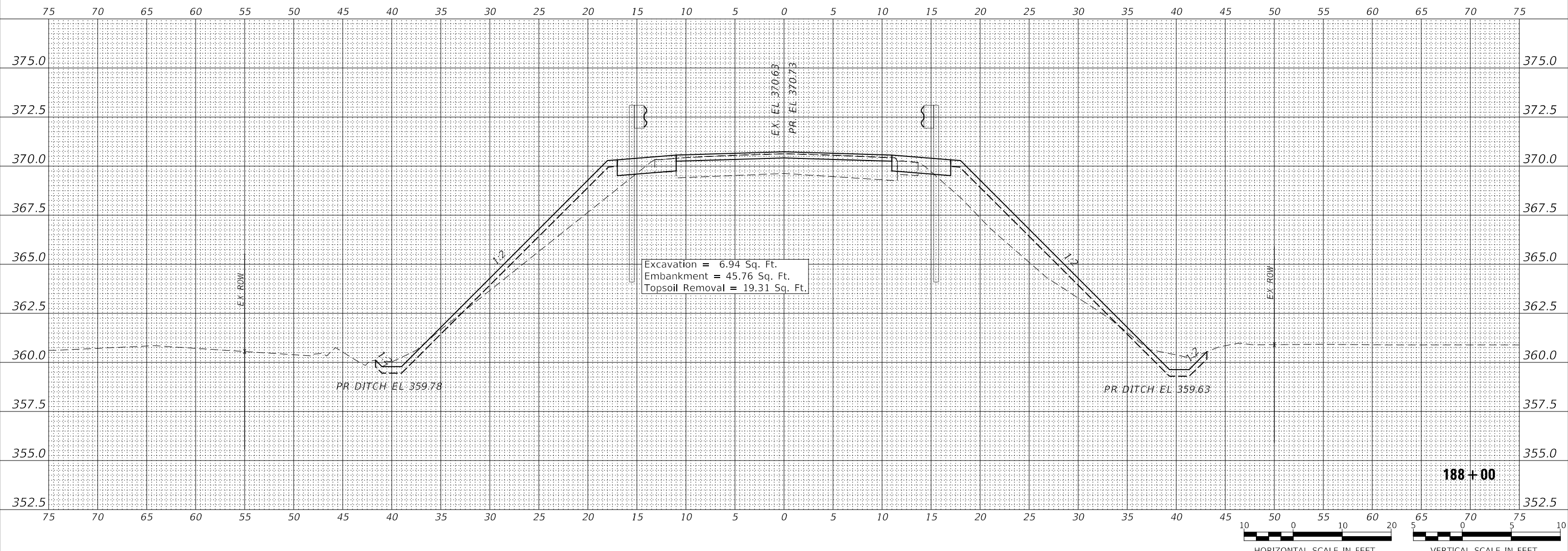
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893	14-00080-00-BR	GALLATIN	92	67
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

187+50

FINAL SURVEY NO.	SURVEYED AREAS	BY	DATE
NOTE BOOK	PLOTTED AREAS		
	TEMPLATE AREAS		
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ORIGINAL SURVEY NO.	SURVEYED AREAS	BY	DATE
NOTE BOOK	PLOTTED AREAS		
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PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

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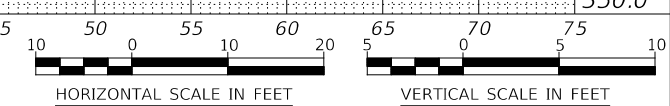
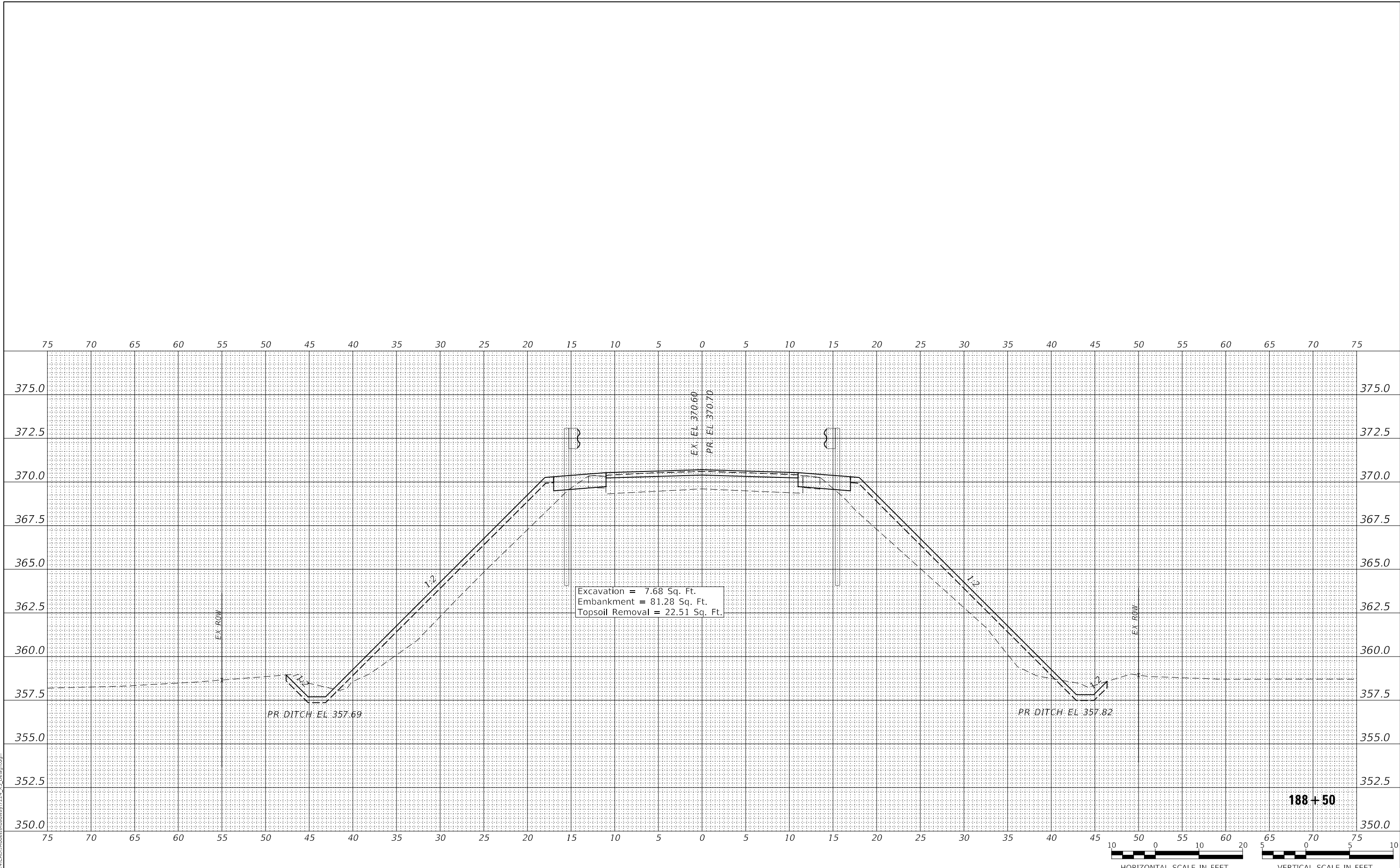
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893	14-00080-00-BR	GALLATIN	92	68
			CONTRACT NO. 99612	
		ILLINOIS	FED. AID PROJECT	

188+00

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

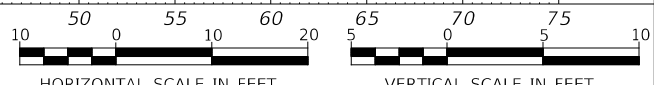
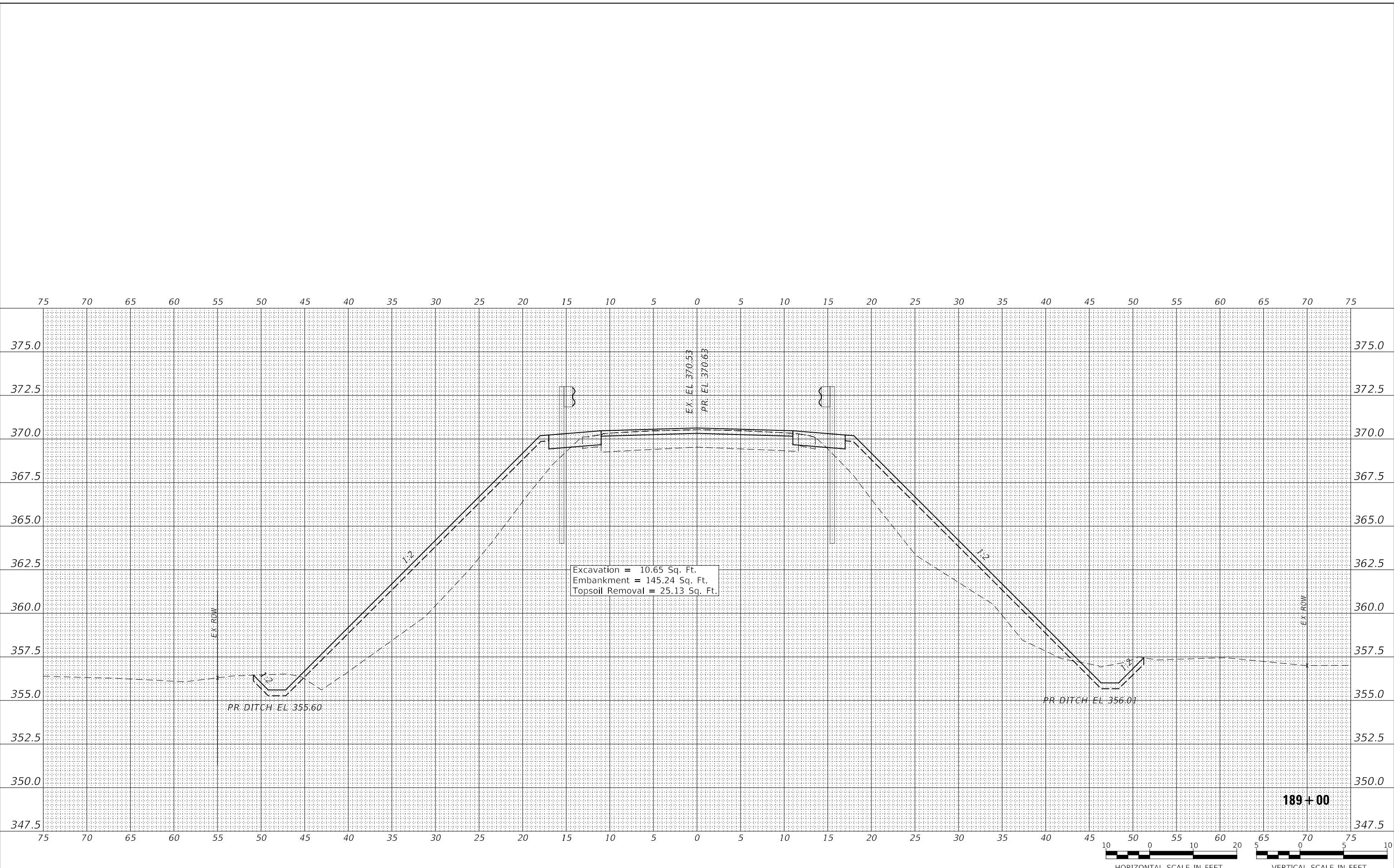
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893	14-00080-00-BR	GALLATIN	92	69
				CONTRACT NO. 99612
		ILLINOIS	FED. AID PROJECT	

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PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

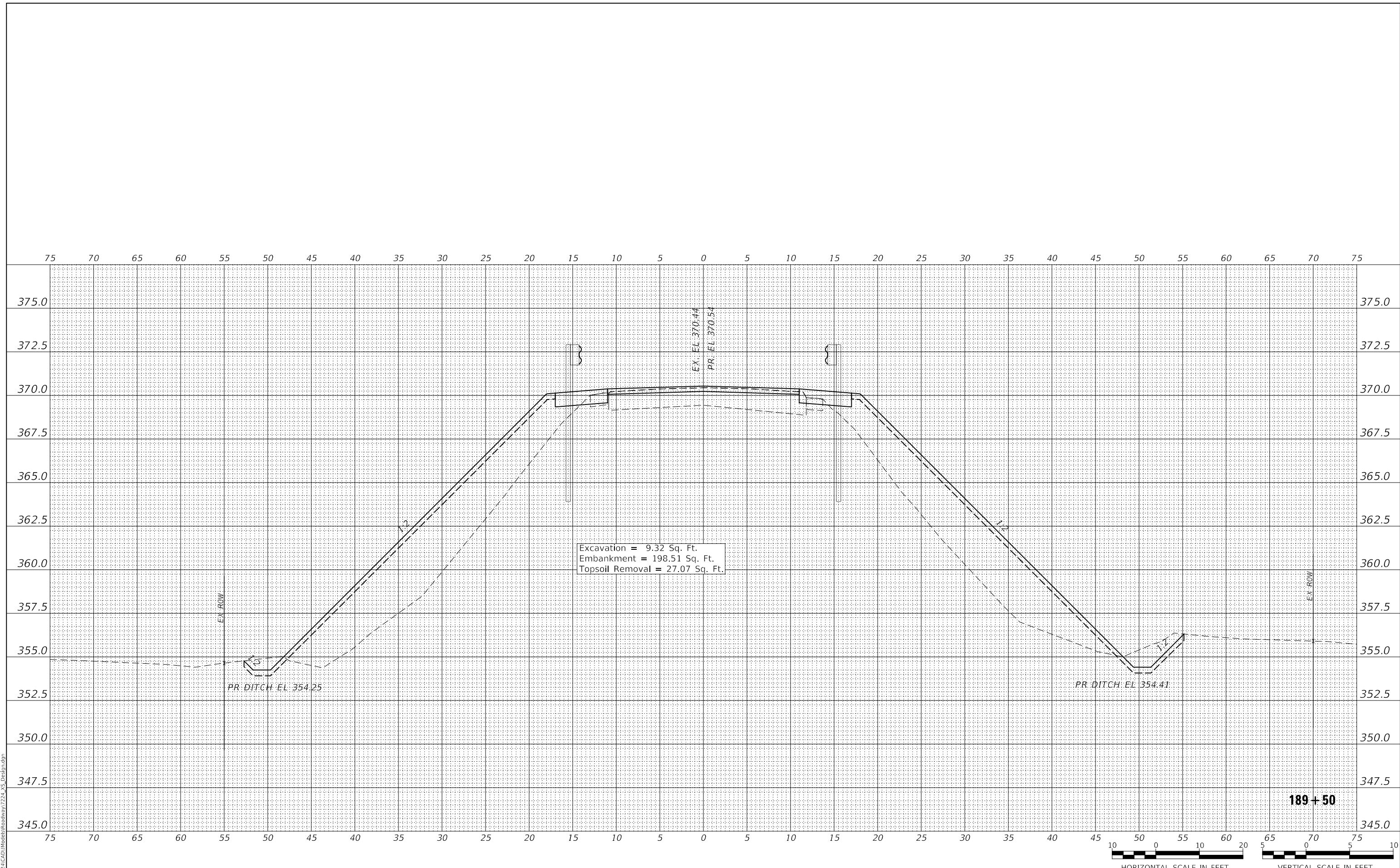
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CONTRACT NO. 99612			ILLINOIS FED. AID PROJECT	

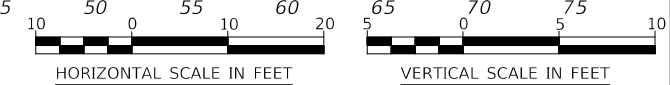
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	AREAS CHECKED		

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Excavation = 9.32 Sq. Ft.
Embankment = 198.51 Sq. Ft.
Topsoil Removal = 27.07 Sq. Ft.



USER NAME = cfourche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

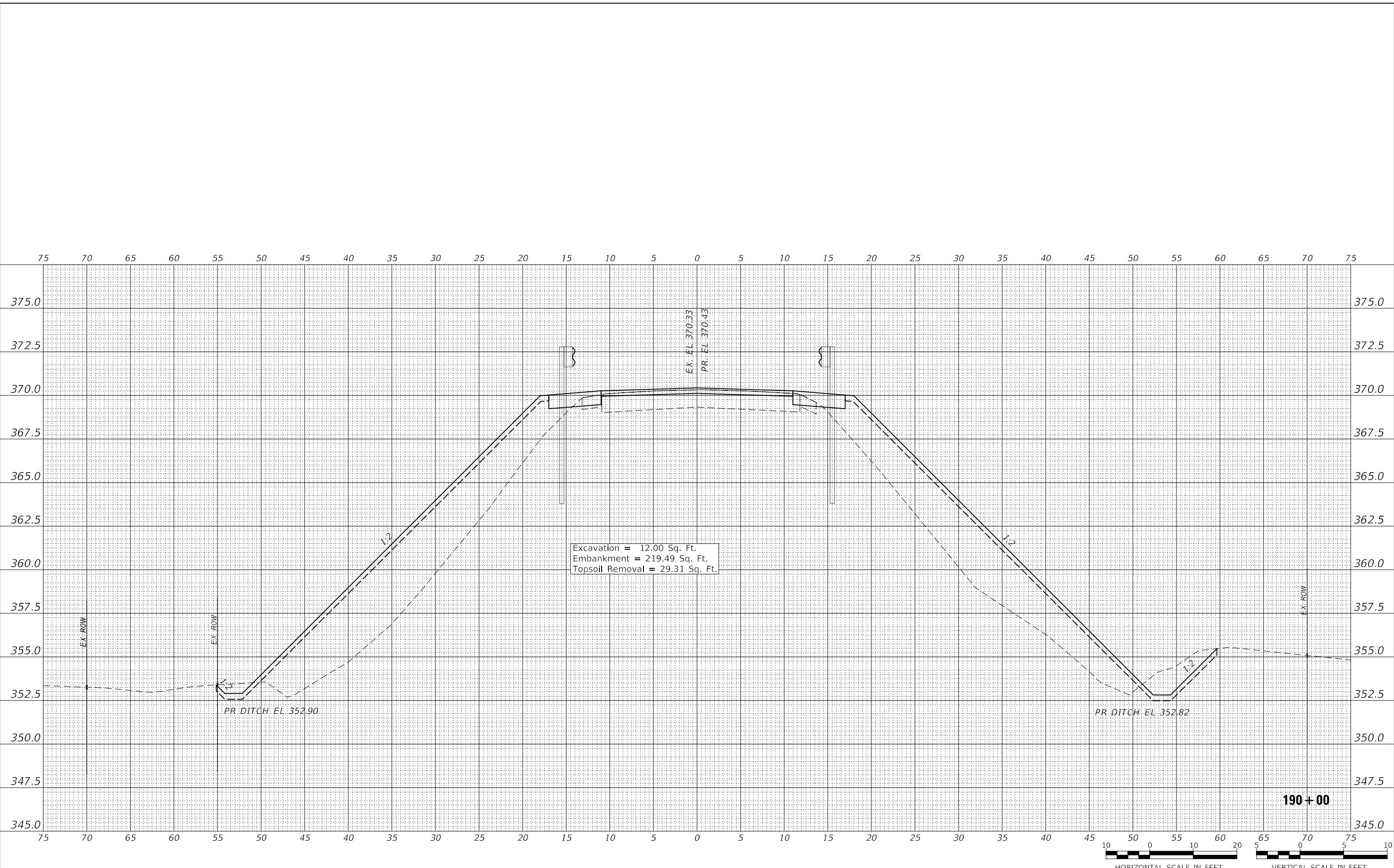
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	71
CONTRACT NO. 99612			ILLINOIS FED. AID PROJECT	

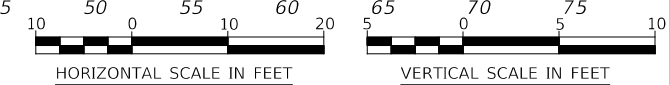
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NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	

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Excavation = 12.00 Sq. Ft.
Embankment = 219.49 Sq. Ft.
Topsoil Removal = 29.31 Sq. Ft.



KNIGHT
Engineers & Architects

USER NAME = crouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

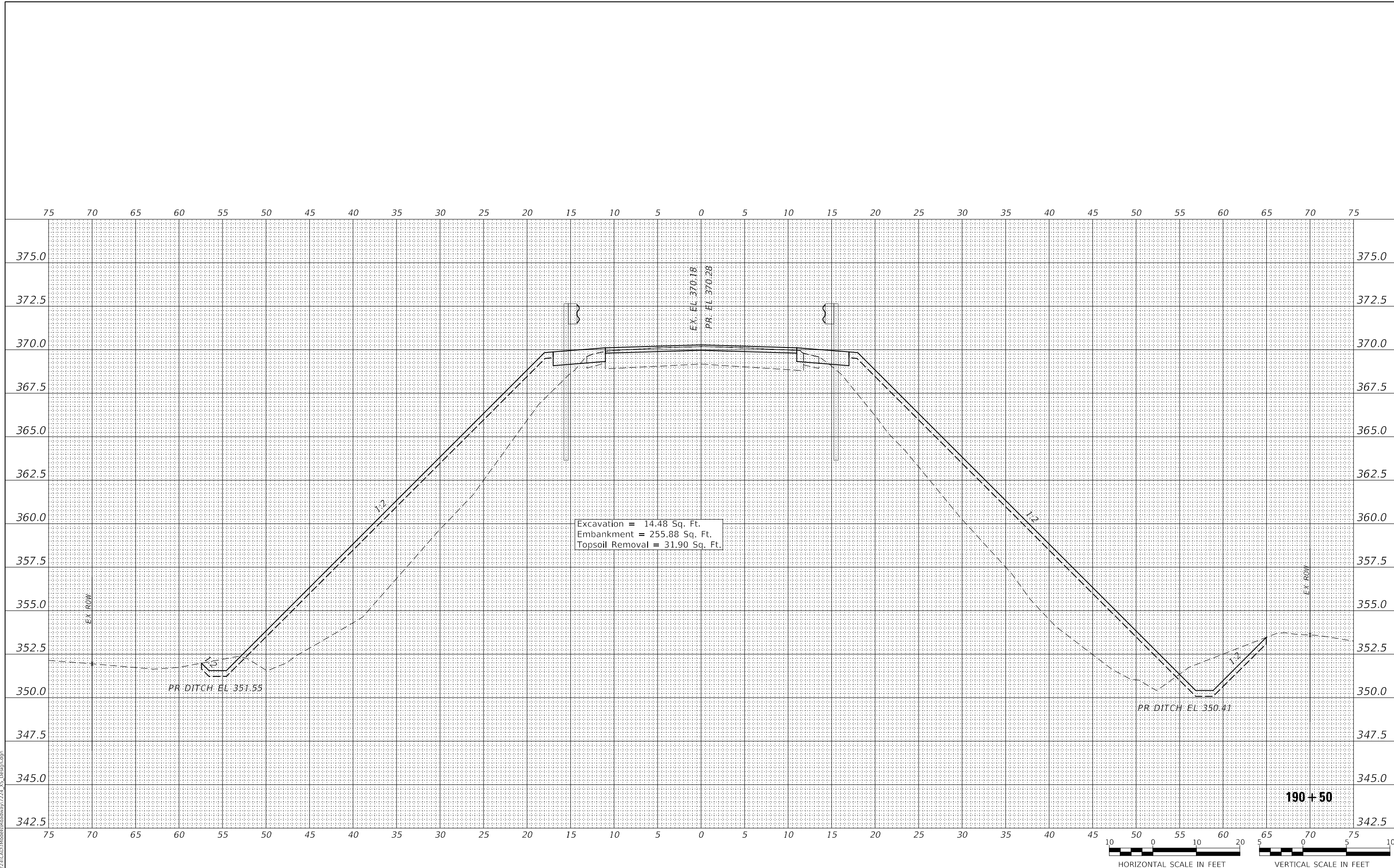
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	72
			CONTRACT NO. 99612	
		ILLINOIS	FED. AID PROJECT	

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

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PLOT DATE = 3/26/2021	DATE - March 26, 2021	REVISED -

SCALE: AS SHOWN SHEET 8 OF 27 SHEETS STA. 190+50 TO STA. 190+50

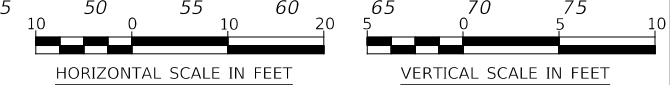
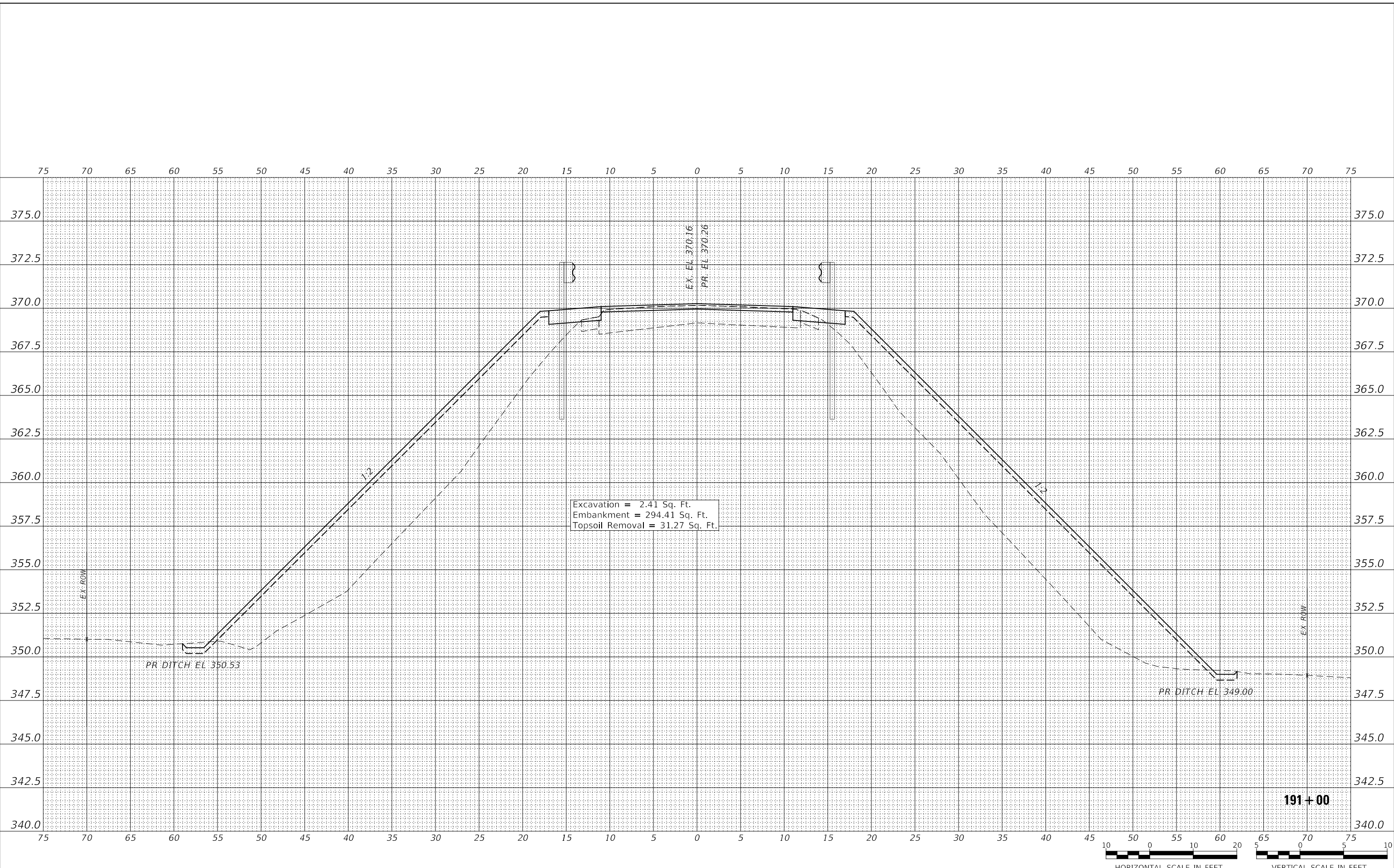
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893	14-00080-00-BR	GALLATIN	92	73
			CONTRACT NO. 99612	
			ILLINOIS FED. AID PROJECT	

KNIGHT
Engineers & Architects

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

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

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PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: AS SHOWN SHEET 9 OF 27 SHEETS STA. 191+00 TO STA. 191+00

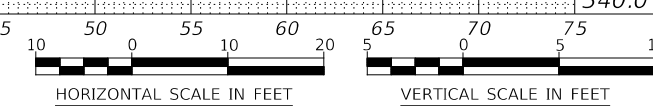
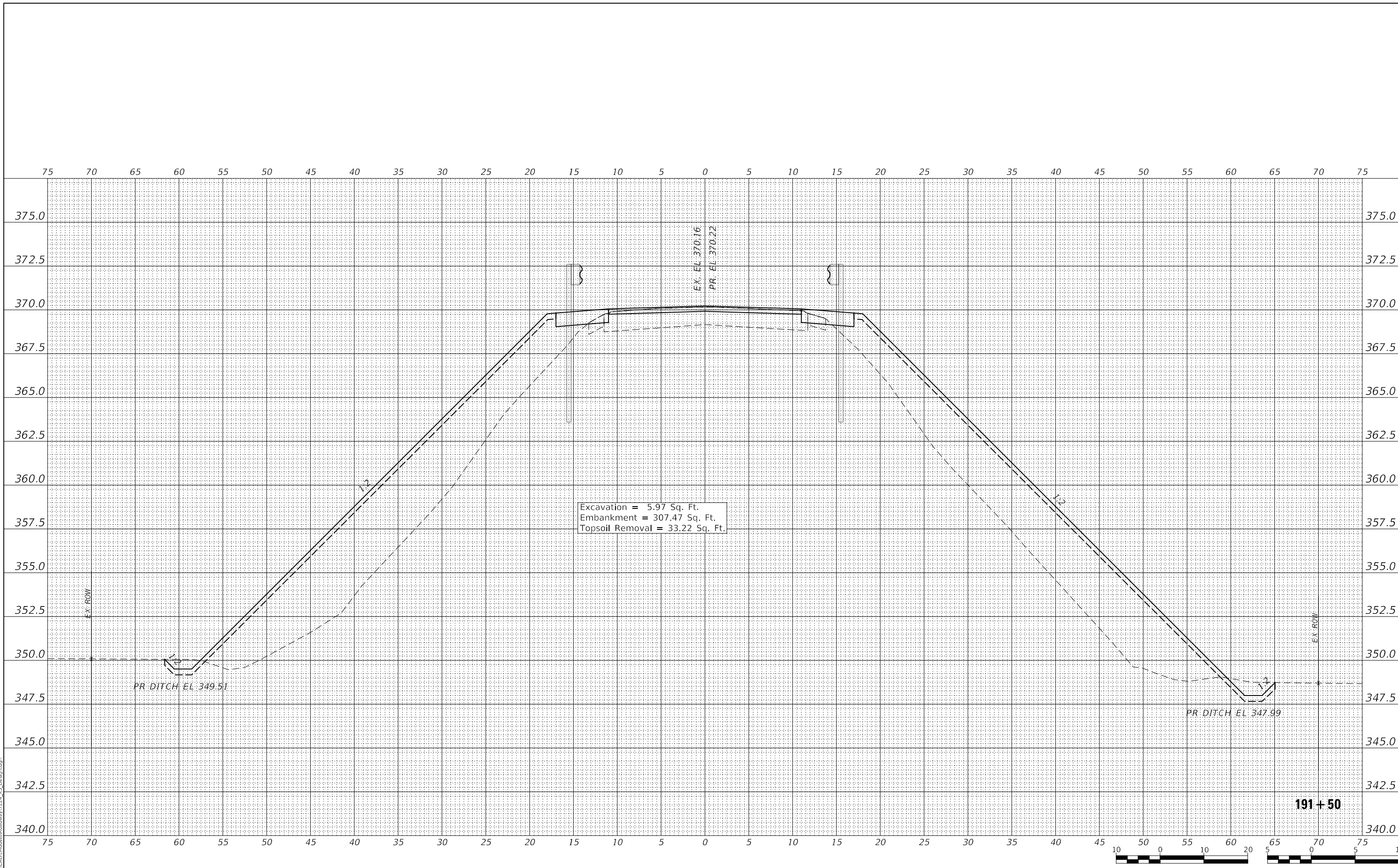
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	74
CONTRACT NO. 99612			ILLINOIS FED. AID PROJECT	

191+00

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

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

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FILE NAME: Z:\22\CAD\Hwy\Roadway\224_N_S_Design.dwg



USER NAME = crouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

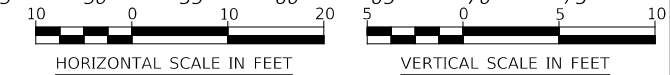
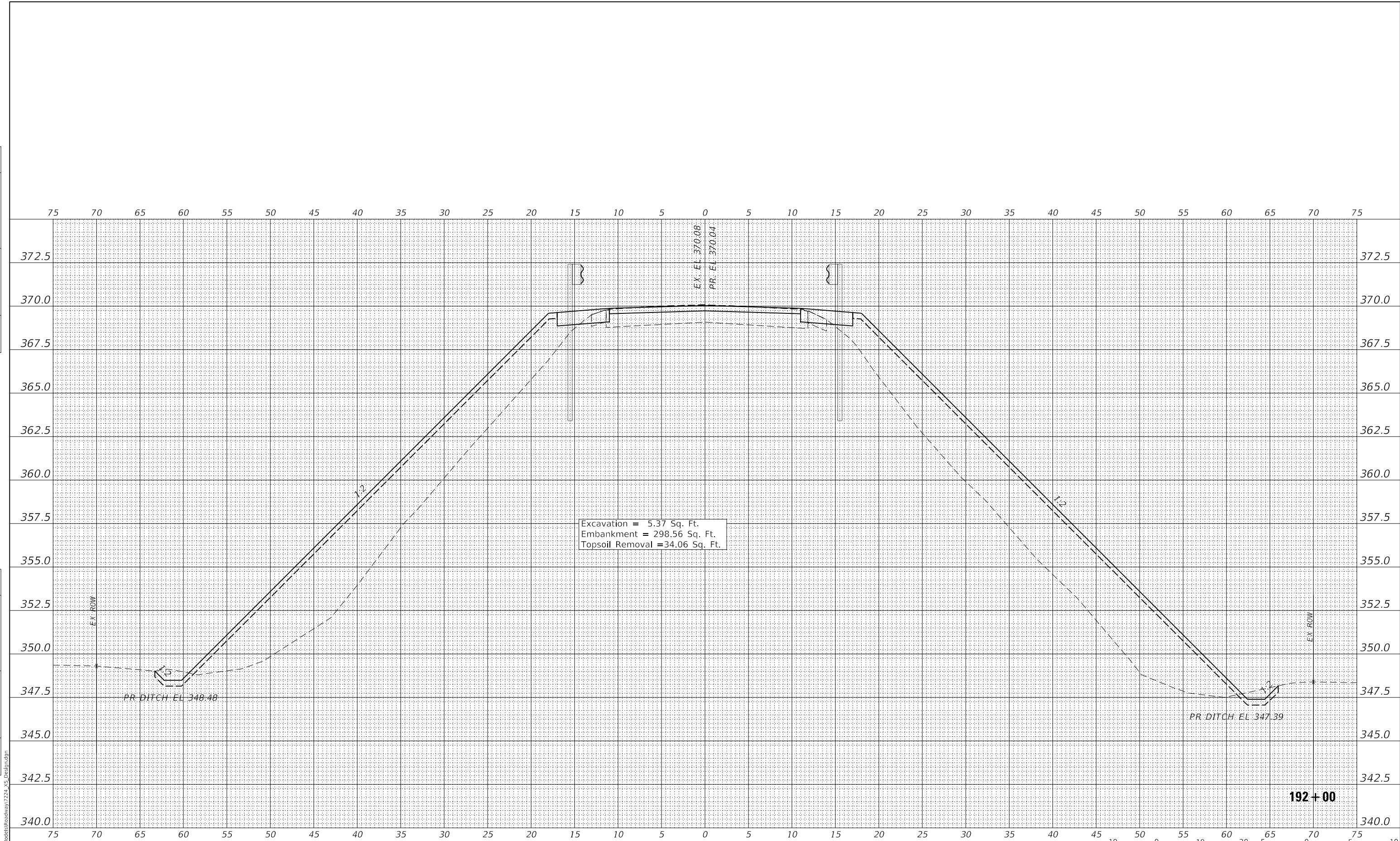
CROSS SECTIONS			
SCALE: AS SHOWN	SHEET 10 OF 27 SHEETS	STA. 191+50 TO STA. 191+50	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	75
				CONTRACT NO. 99612
				ILLINOIS FED. AID PROJECT

191+50

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

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



KNIGHT
Engineers & Architects

USER NAME =	cfouche	DESIGNED -	CJF	REVISED -	
		DRAWN -	CJF	REVISED -	
PLOT SCALE =	1:10	CHECKED -	JCM	REVISED -	
PLOT DATE =	3/26/2021	DATE -	March 26, 2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SCALE: AS SHOWN SHEET 11 OF 27 SHEETS STA. 192+00 TO STA. 192+00

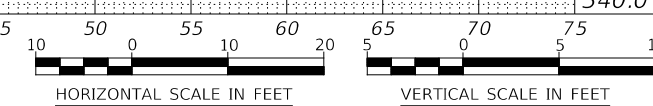
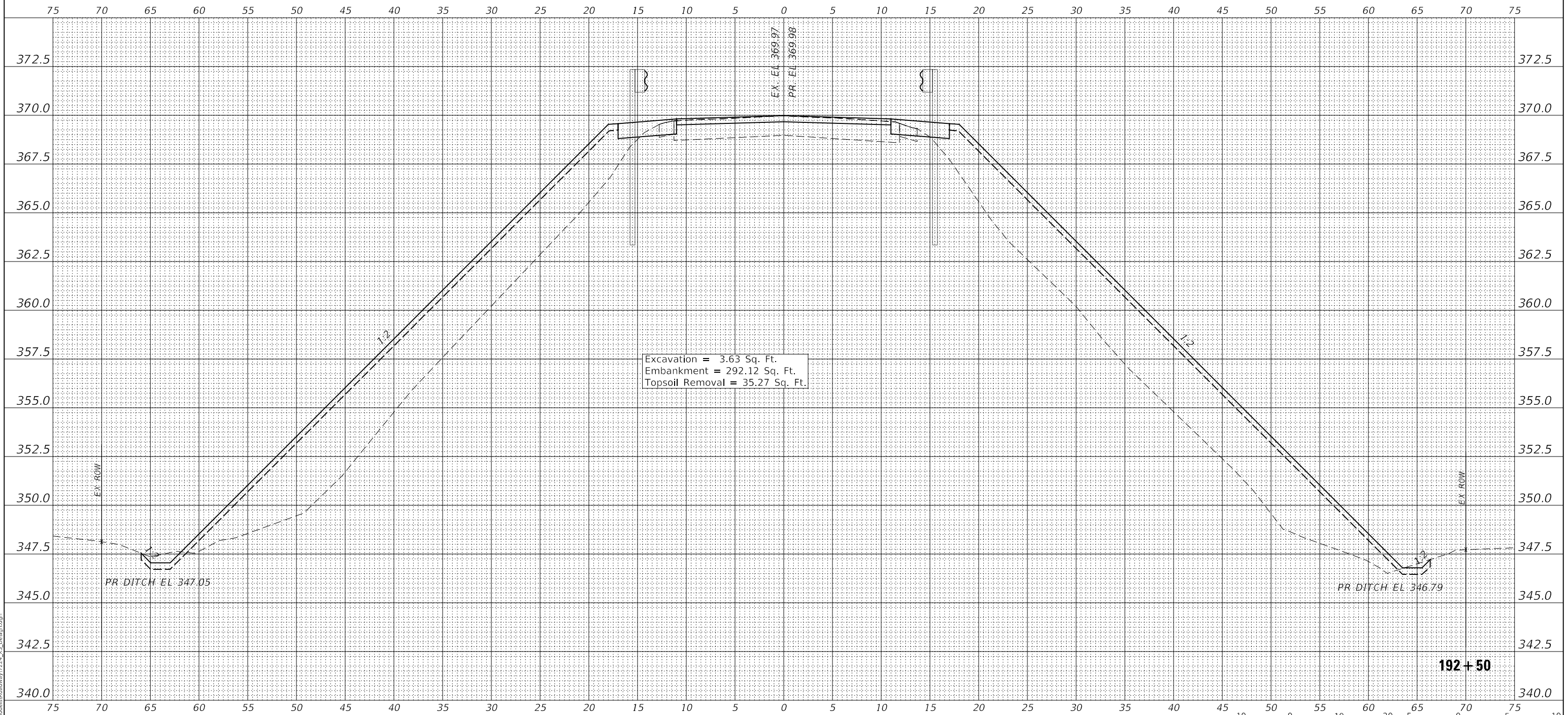
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	76
				CONTRACT NO. 99612
		ILLINOIS	FED. AID PROJECT	

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

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KNIGHT
Engineers & Architects

USER NAME = cfouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

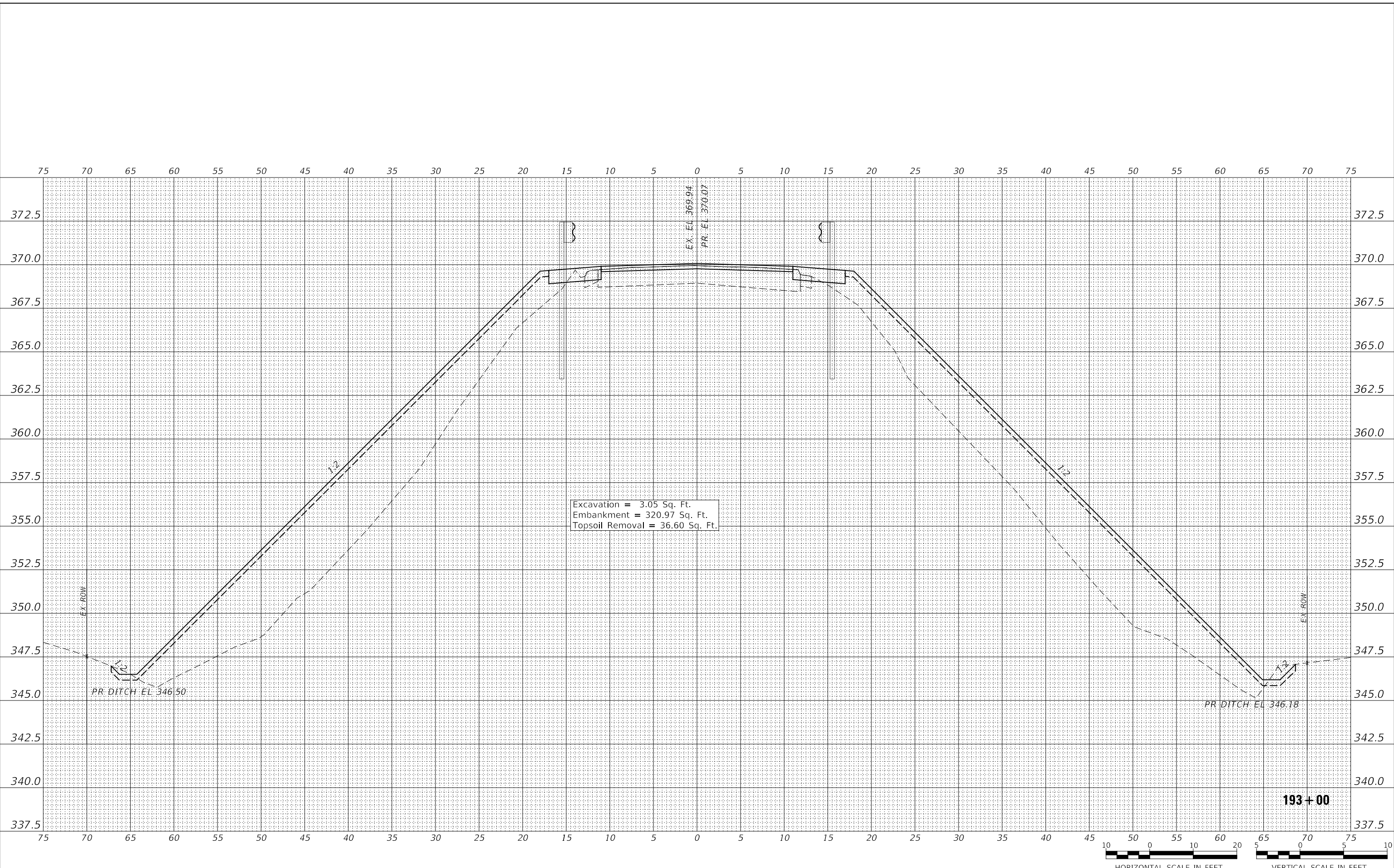
SCALE: AS SHOWN SHEET 12 OF 27 SHEETS STA. 192+50 TO STA. 192+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	77
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

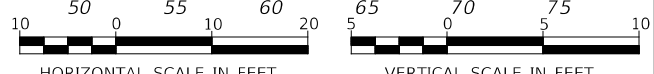
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NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	

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

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Excavation = 3.05 Sq. Ft.
Embankment = 320.97 Sq. Ft.
Topsoil Removal = 36.60 Sq. Ft.



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USER NAME = crouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: AS SHOWN SHEET 13 OF 27 SHEETS STA. 193+00 TO STA. 193+00

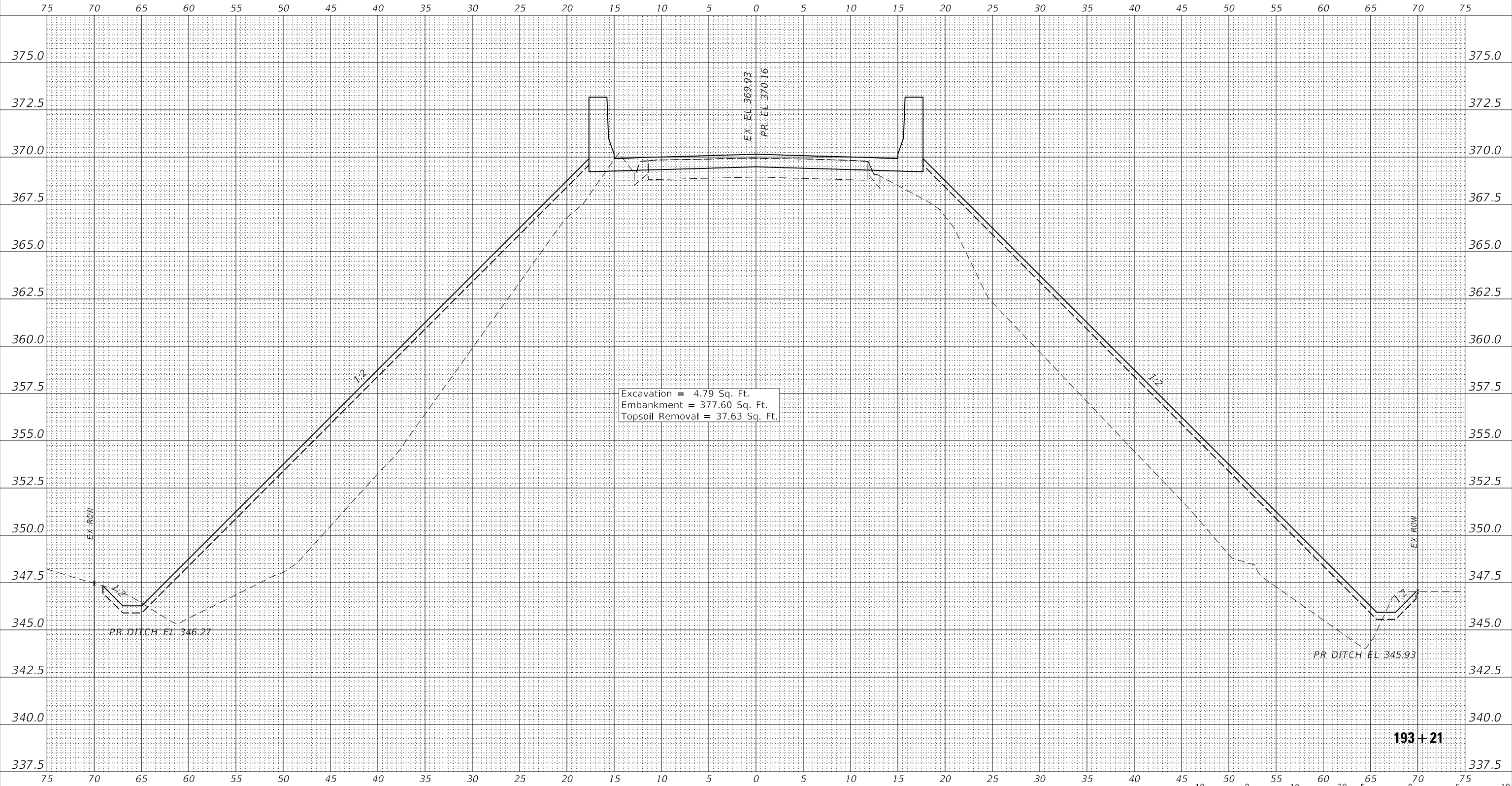
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	78
			CONTRACT NO. 99612	
			ILLINOIS FED. AID PROJECT	

BRIDGE OMISSION

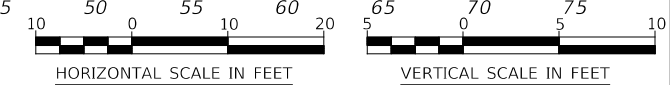
FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: S:\061\MMMS
FILE NAME: Z:\22\CAD\Hwy\Roadway\224_VS_Design.dwg



Excavation = 4.79 Sq. Ft.
Embankment = 377.60 Sq. Ft.
Topsoil Removal = 37.63 Sq. Ft.



USER NAME = crouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

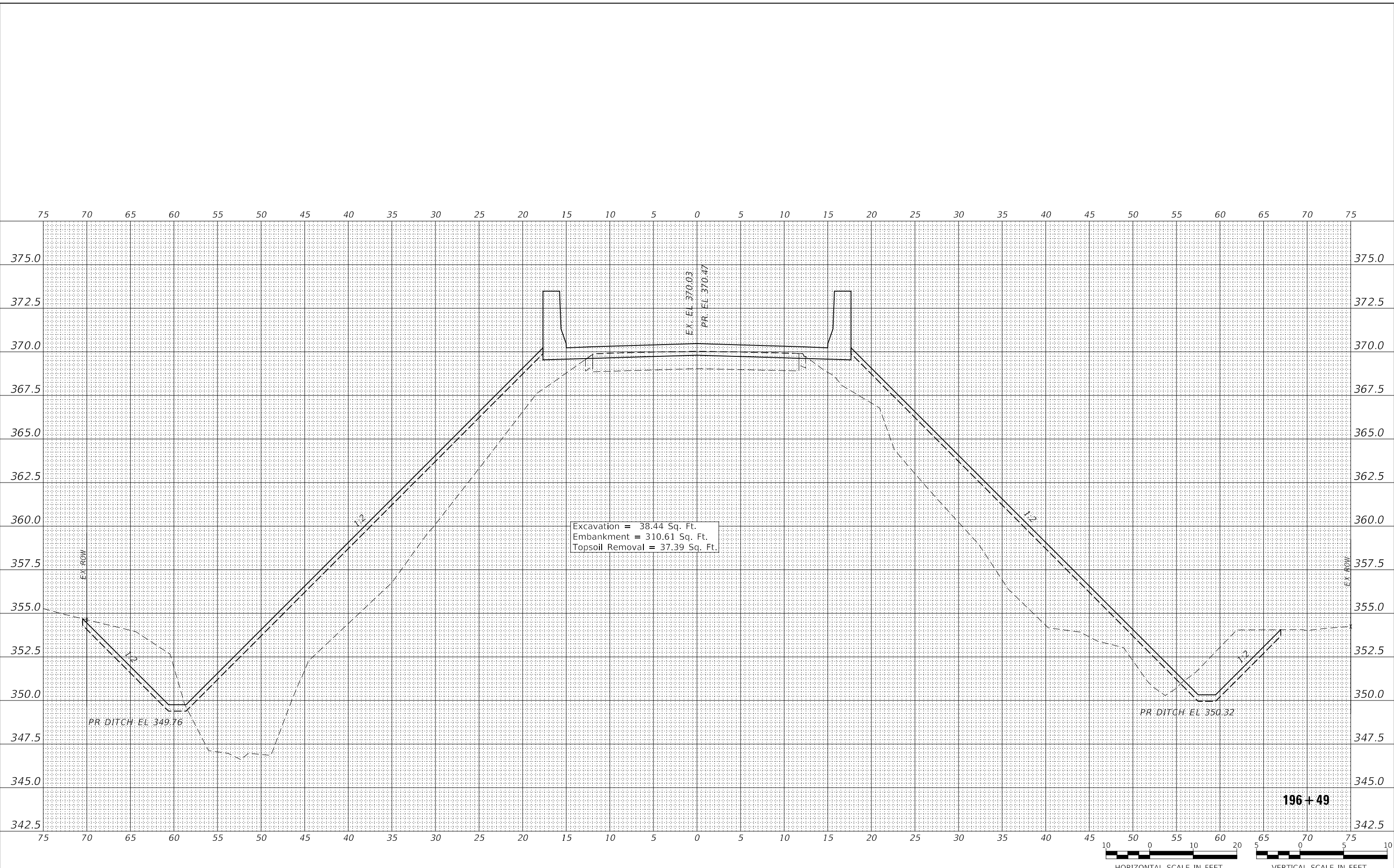
SCALE: AS SHOWN SHEET 14 OF 27 SHEETS STA. 193+21 TO STA. 193+21

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	79
			CONTRACT NO. 99612	
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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KNIGHT
Engineers & Architects

USER NAME = cfourche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

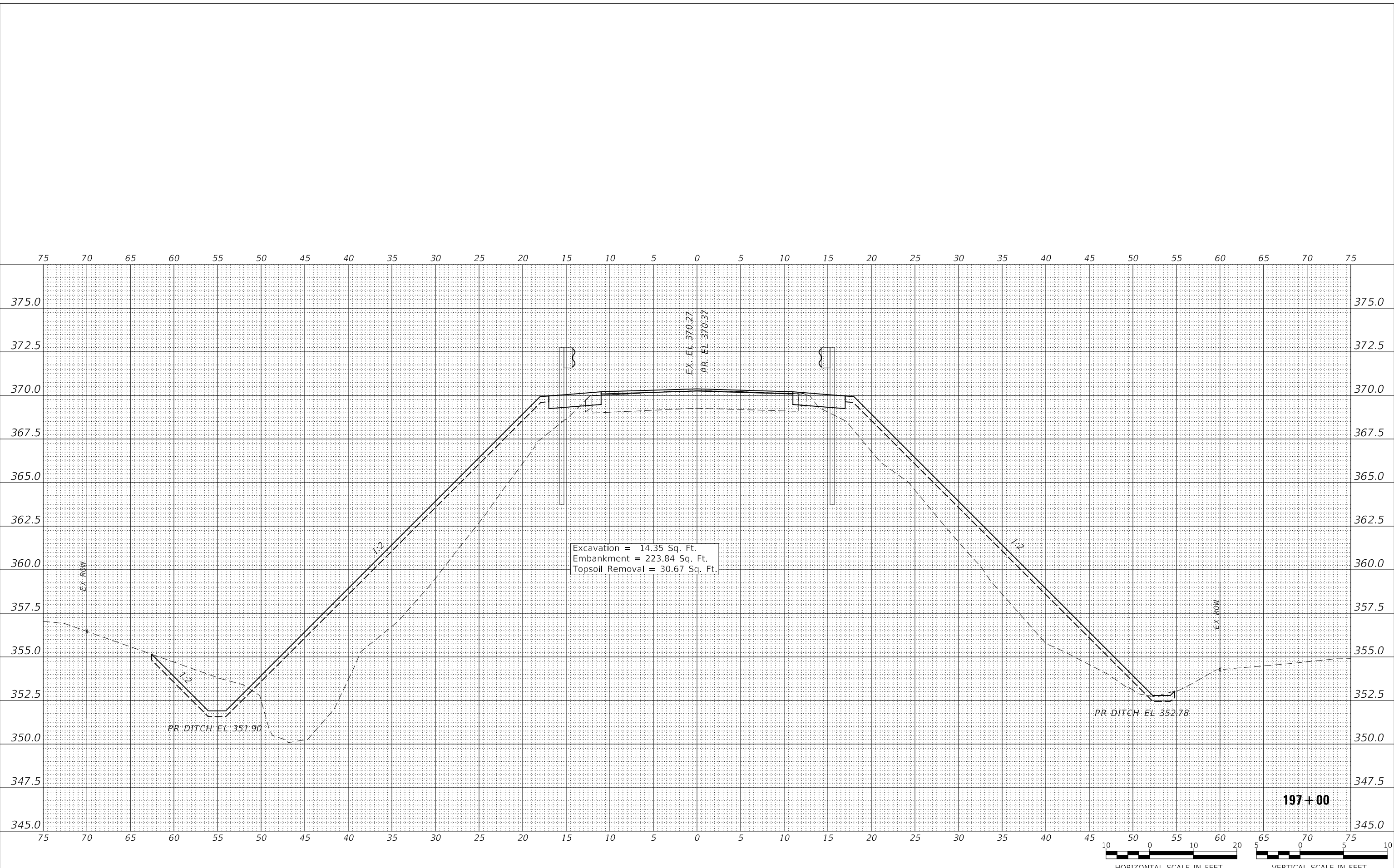
SCALE: AS SHOWN SHEET 15 OF 27 SHEETS STA. 196+49 TO STA. 196+49

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	80
CONTRACT NO. 99612				
		ILLINOIS	FED. AID PROJECT	

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

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

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Excavation = 14.35 Sq. Ft.
 Embankment = 223.84 Sq. Ft.
 Topsoil Removal = 30.67 Sq. Ft.



USER NAME = cfourche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

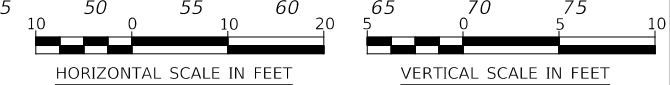
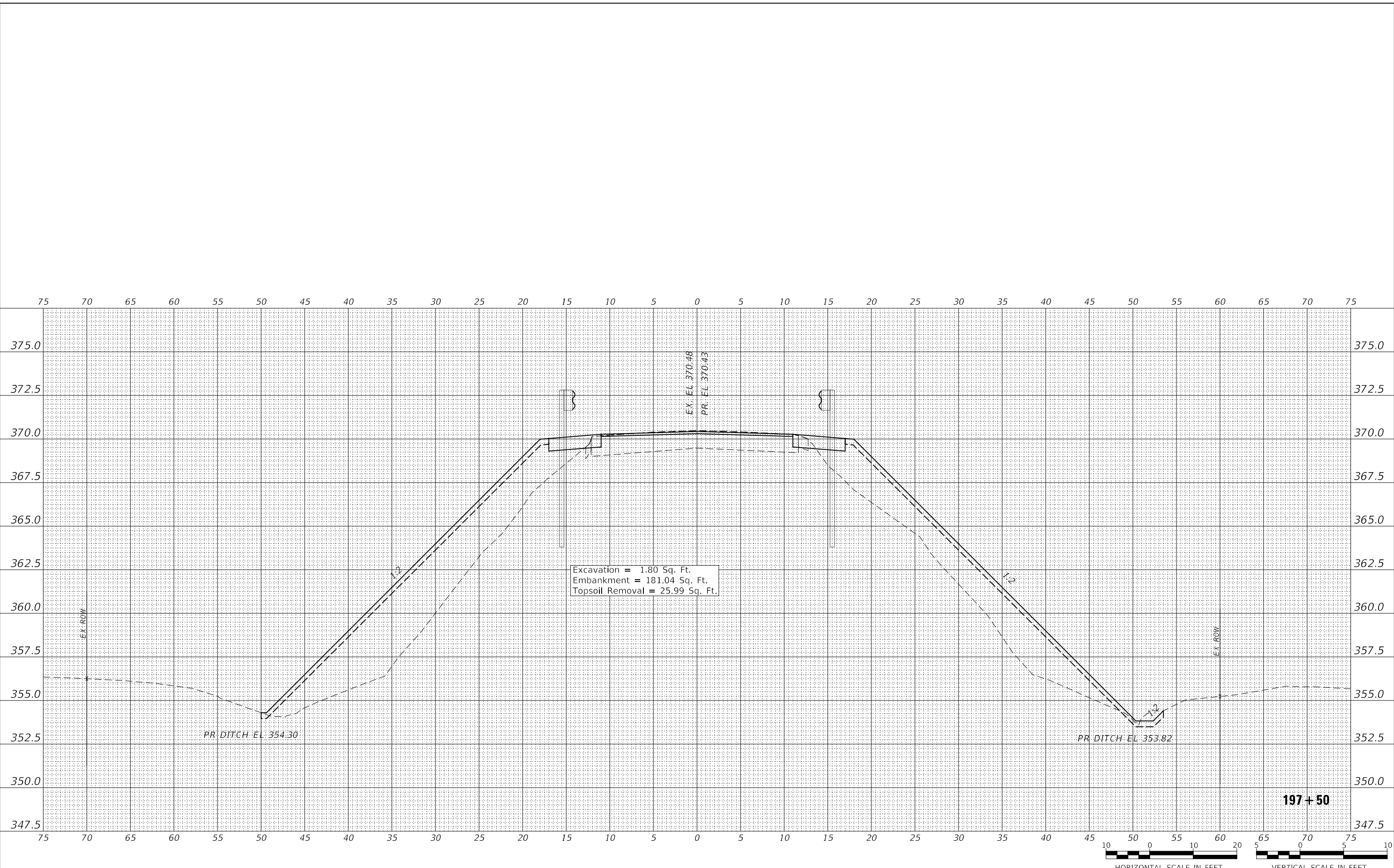
CROSS SECTIONS			
SCALE: AS SHOWN	SHEET 17	OF 27 SHEETS	STA. 197+00 TO STA. 197+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	82
				CONTRACT NO. 99612
		ILLINOIS	FED. AID PROJECT	

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

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

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KNIGHT
Engineers & Architects

USER NAME = cfouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 5/17/2021	CHECKED - JCM	REVISED -
	DATE - MAY 17, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: AS SHOWN SHEET 18 OF 27 SHEETS STA. 197+50 TO STA. 197+50

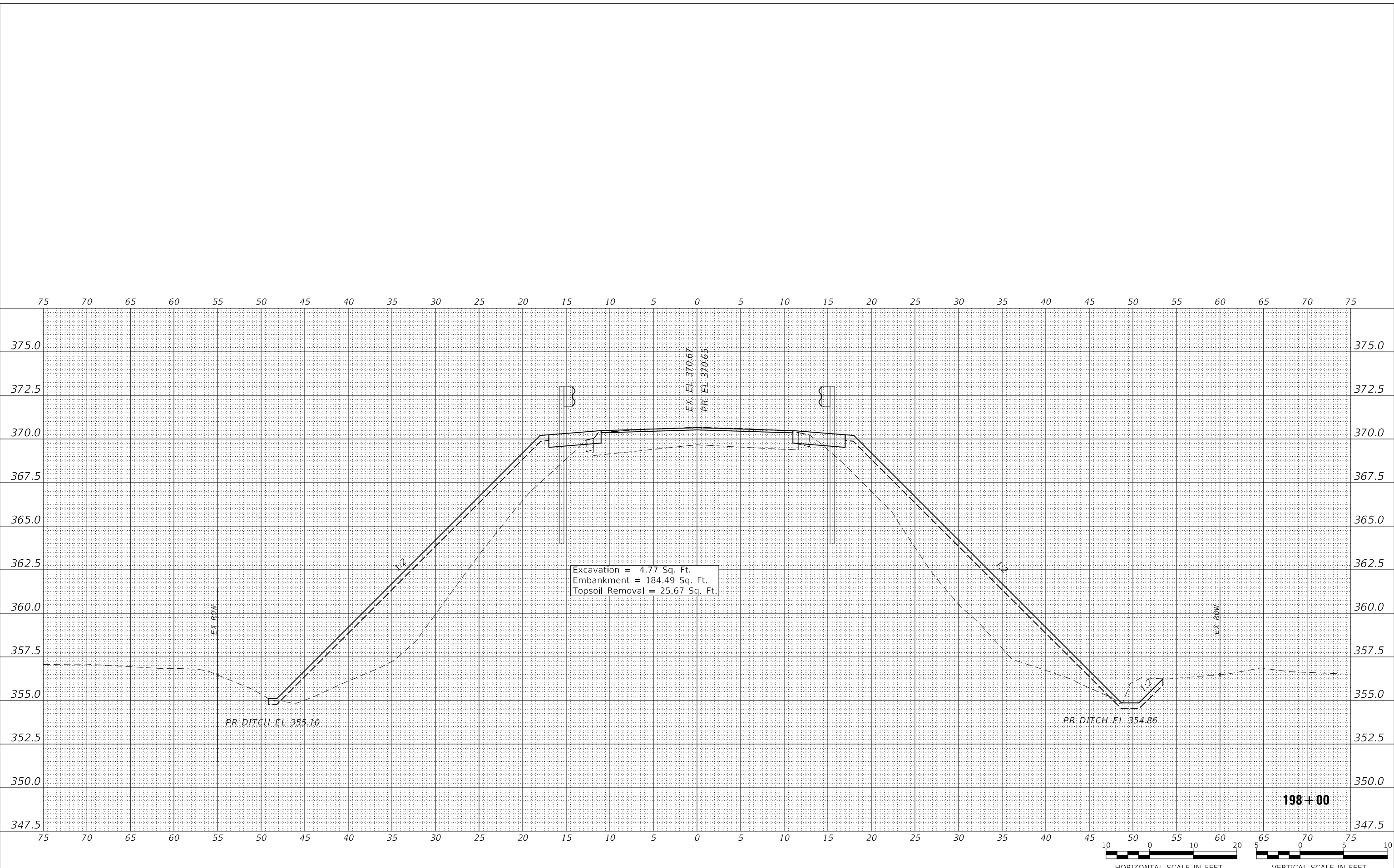
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	83
				CONTRACT NO. 99612
		ILLINOIS	FED. AID PROJECT	

197+50

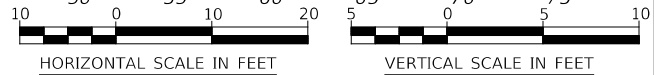
FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

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

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Excavation = 4.77 Sq. Ft.
Embankment = 184.49 Sq. Ft.
Topsoil Removal = 25.67 Sq. Ft.



USER NAME = crouche	DESIGNED - CJF	REVISED -
PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 5/17/2021	CHECKED - JCM	REVISED -
	DATE - MAY 17, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

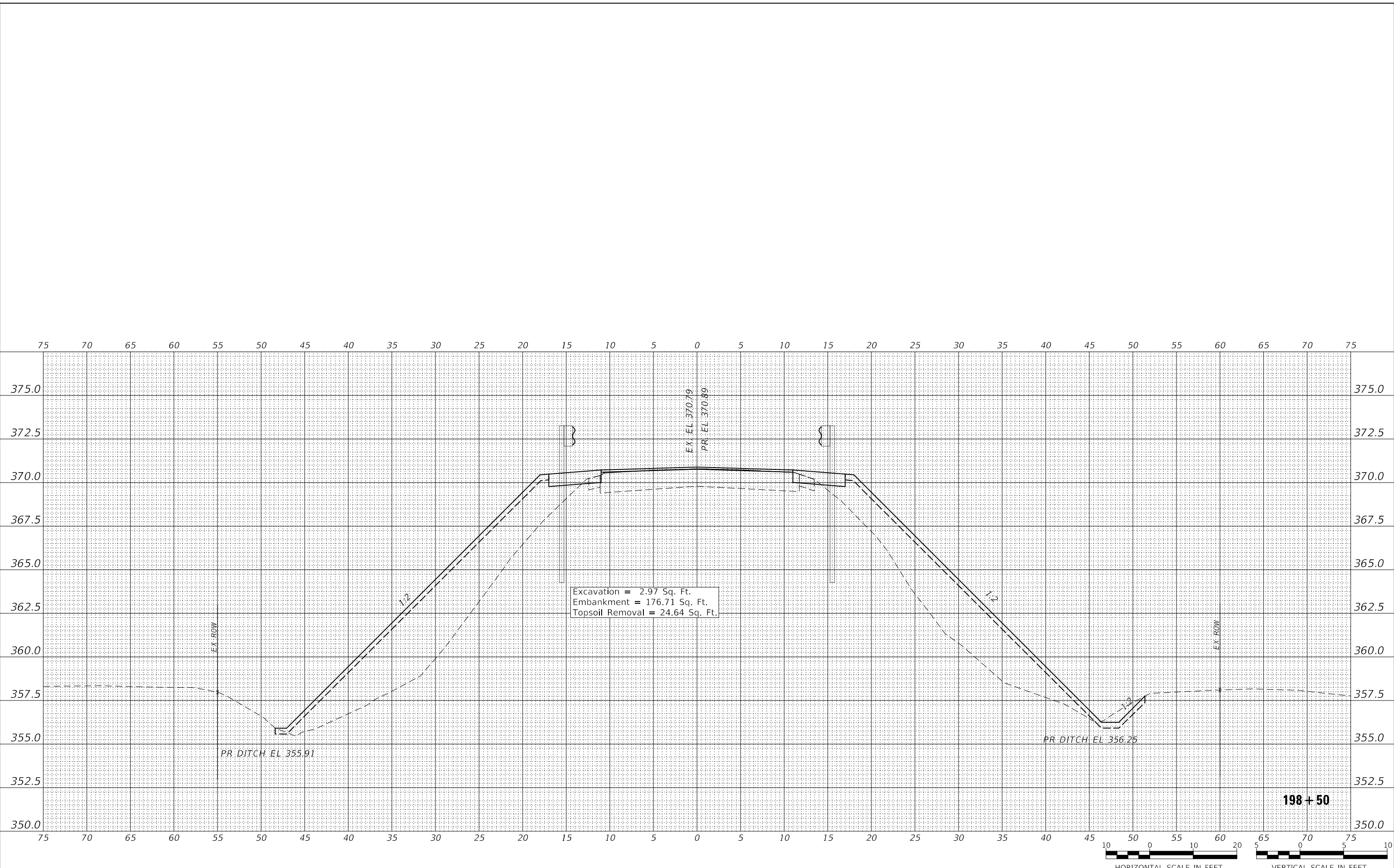
SCALE: AS SHOWN SHEET 19 OF 27 SHEETS STA. 198+00 TO STA. 198+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	84
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

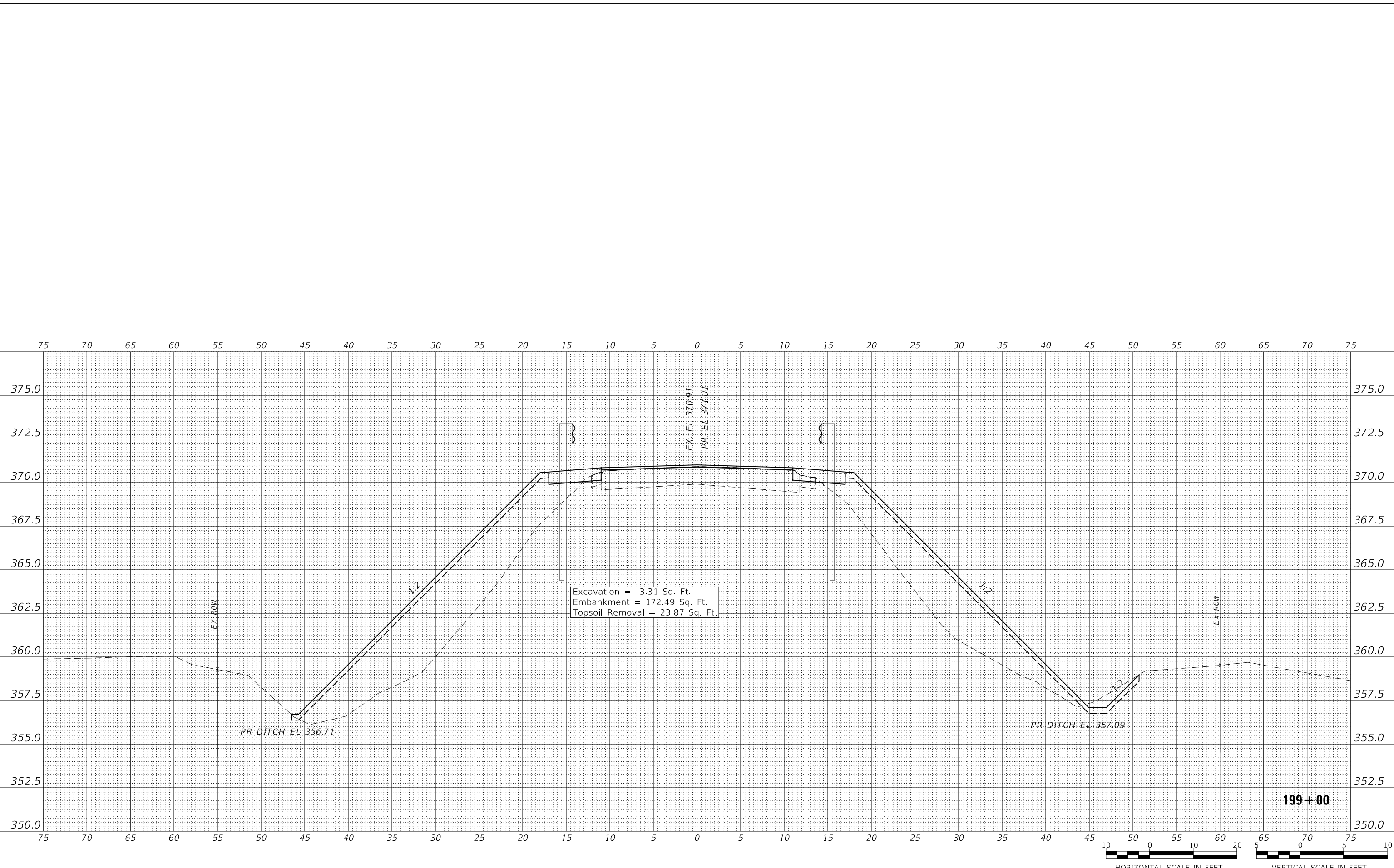
SCALE: AS SHOWN SHEET 20 OF 27 SHEETS STA. 198+50 TO STA. 198+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	85
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

FINAL SURVEY	SURVEYED	BY	DATE
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	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

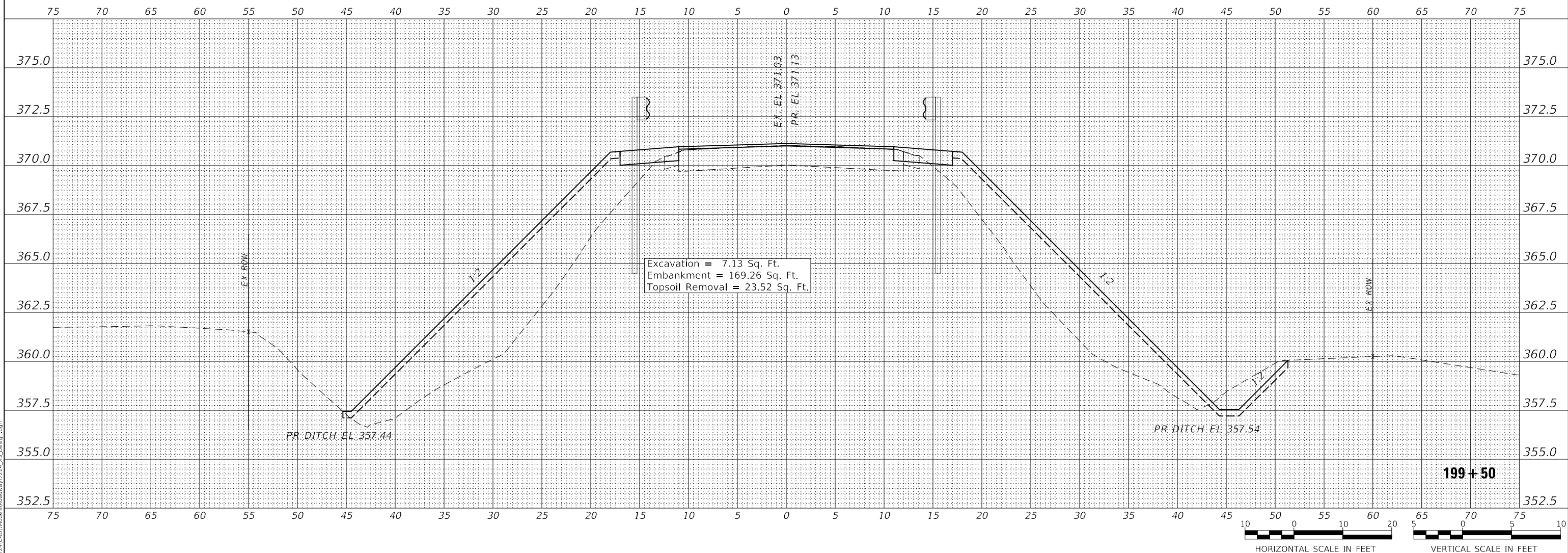
SCALE: AS SHOWN SHEET 21 OF 27 SHEETS STA. 199+00 TO STA. 199+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	86
CONTRACT NO. 99612				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED AREAS	BY	DATE
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	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED AREAS	BY	DATE
	NOTED		
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	AREAS CHECKED		

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PLOT DATE = 5/17/2021	CHECKED - JCM	REVISED -
	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

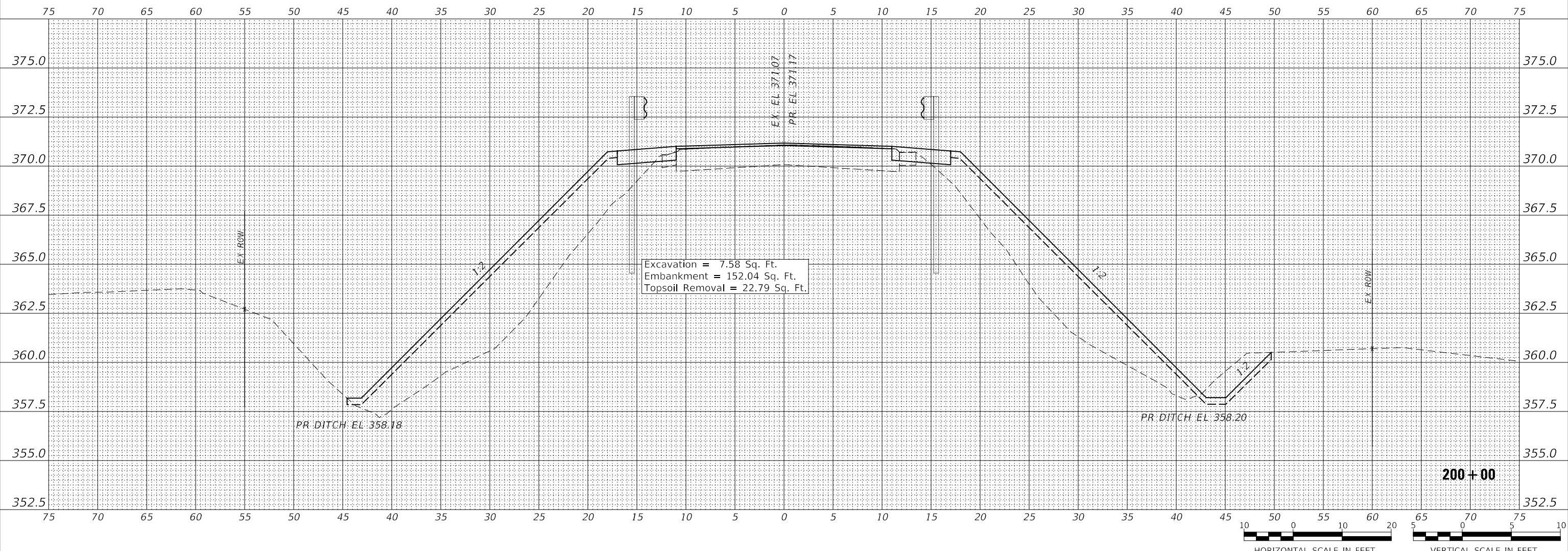
SCALE: AS SHOWN SHEET 22 OF 27 SHEETS STA. 199+50 TO STA. 199+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	87
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

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

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

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	DATE - MAY 17, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

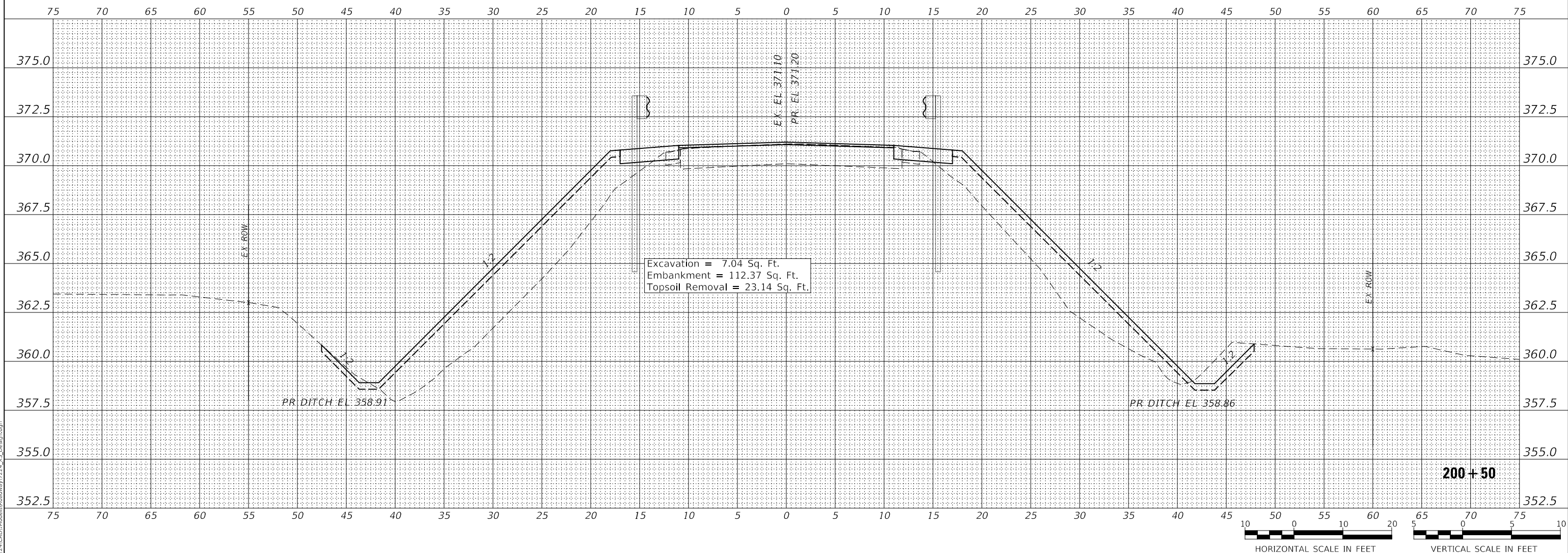
SCALE: AS SHOWN SHEET 23 OF 27 SHEETS STA. 200+00 TO STA. 200+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	88
ILLINOIS FED. AID PROJECT			CONTRACT NO. 99612	

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

ORIGINAL SURVEY NO.	SURVEYED AREAS	BY	DATE
NOTE BOOK	PLOTTED AREAS		
	TEMPLATE AREAS		
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KNIGHT
Engineers & Architects

USER NAME = cfouche	DESIGNED - CJF	REVISED -
	DRAWN - CJF	REVISED -
PLOT SCALE = 1:10	CHECKED - JCM	REVISED -
PLOT DATE = 3/26/2021	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

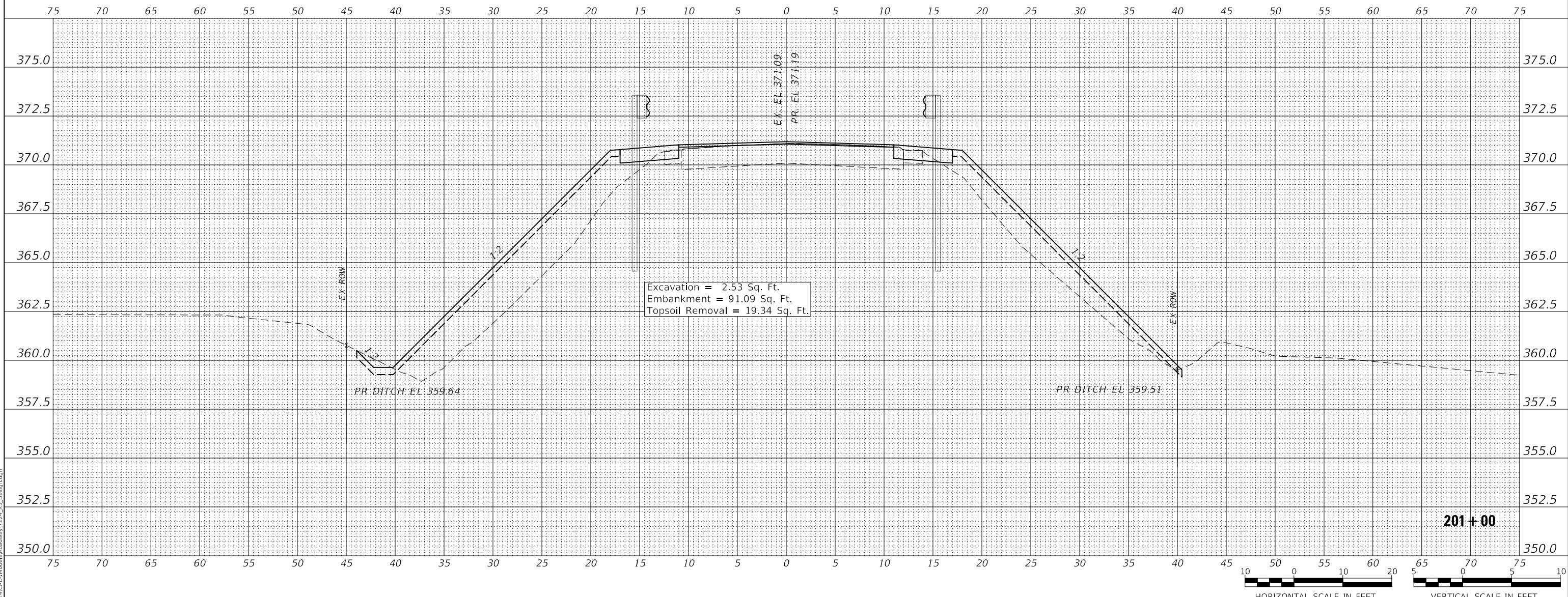
SCALE: AS SHOWN SHEET 24 OF 27 SHEETS STA. 200+50 TO STA. 200+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	89
				CONTRACT NO. 99612
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

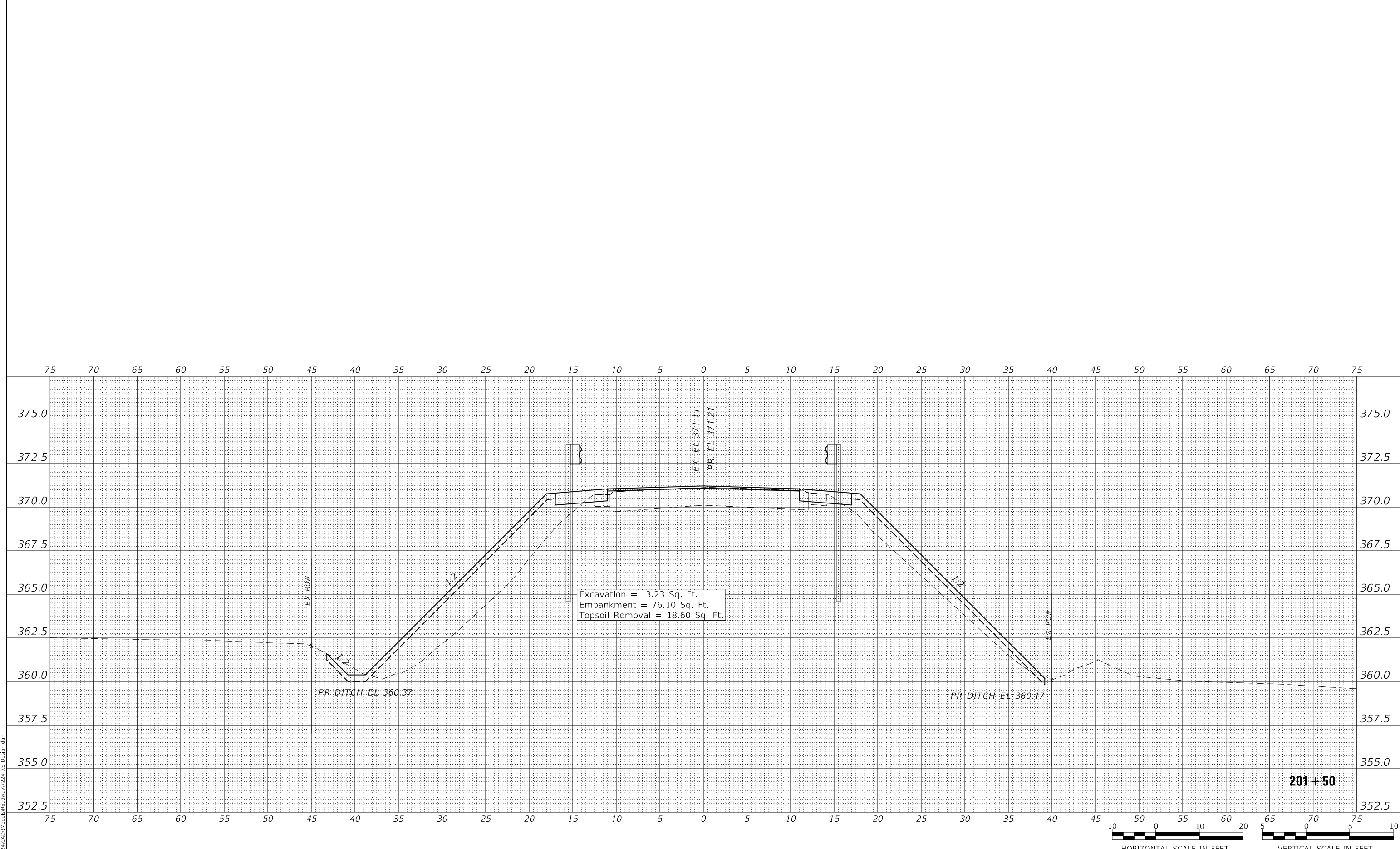
SCALE: AS SHOWN SHEET 25 OF 27 SHEETS STA. 201+00 TO STA. 201+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	90
CONTRACT NO. 99612				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT SCALE = 1:10	DRAWN - CJF	REVISED -
PLOT DATE = 3/26/2021	CHECKED - JCM	REVISED -
	DATE - March 26, 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

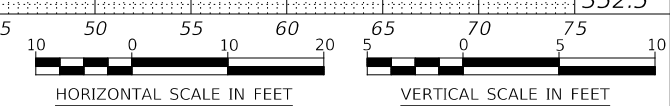
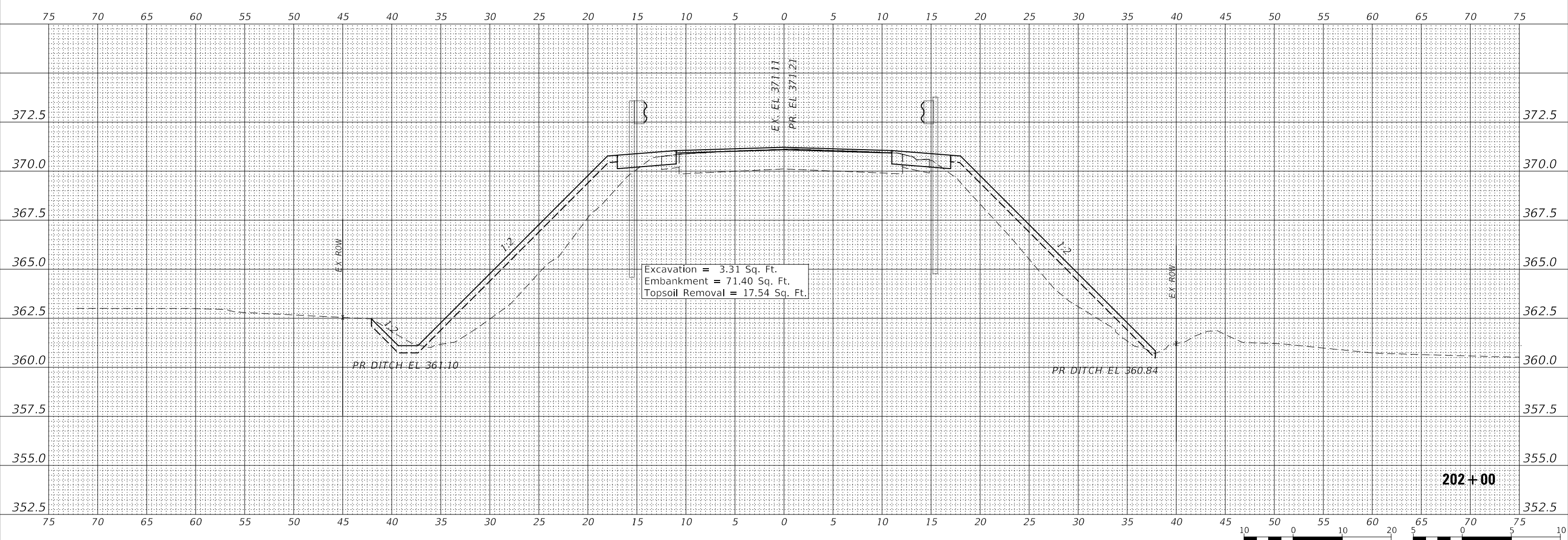
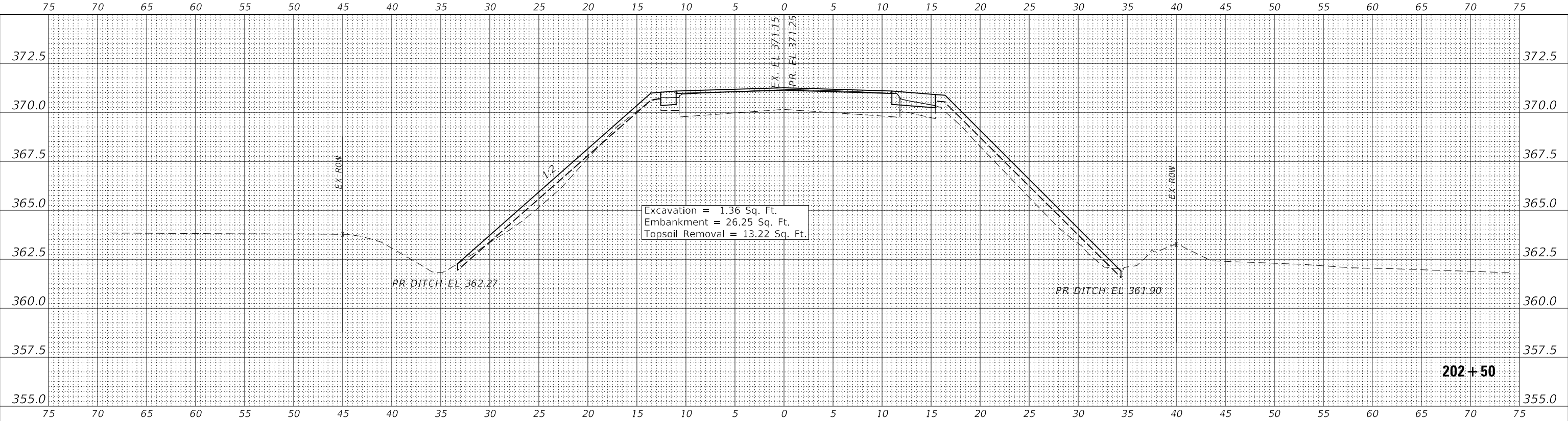
SCALE: AS SHOWN SHEET 26 OF 27 SHEETS STA. 201+50 TO STA. 201+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	91
CONTRACT NO. 99612			ILLINOIS FED. AID PROJECT	

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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	AREAS	
	CHECKED	

MODEL: S:\MODEL\MMMS
FILE NAME: Z:\22\CAD\Hwy\Roadway\224_VS_Design.dwg



USER NAME = crouche	DESIGNED - CJF	REVISED -
	DRAWN - CJF	REVISED -
PLOT SCALE = 1:10	CHECKED - JCM	REVISED -
PLOT DATE = 3/26/2021	DATE - March 26, 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: AS SHOWN SHEET 27 OF 27 SHEETS STA. 202+00 TO STA. 202+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
893	14-00080-00-BR	GALLATIN	92	92
			CONTRACT NO. 99612	

ILLINOIS FED. AID PROJECT