

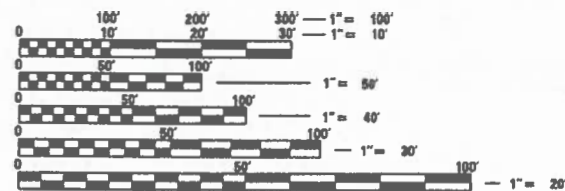
03-10-2023 LETTING ITEM 107

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

DESIGN DESIGNATION
MAJOR COLLECTOR

TRAFFIC DATA
FAS 1746 (RED BALL TR - CH 9)
DESIGN SPEED: 35 MPH

ADT = 479 (2032)



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

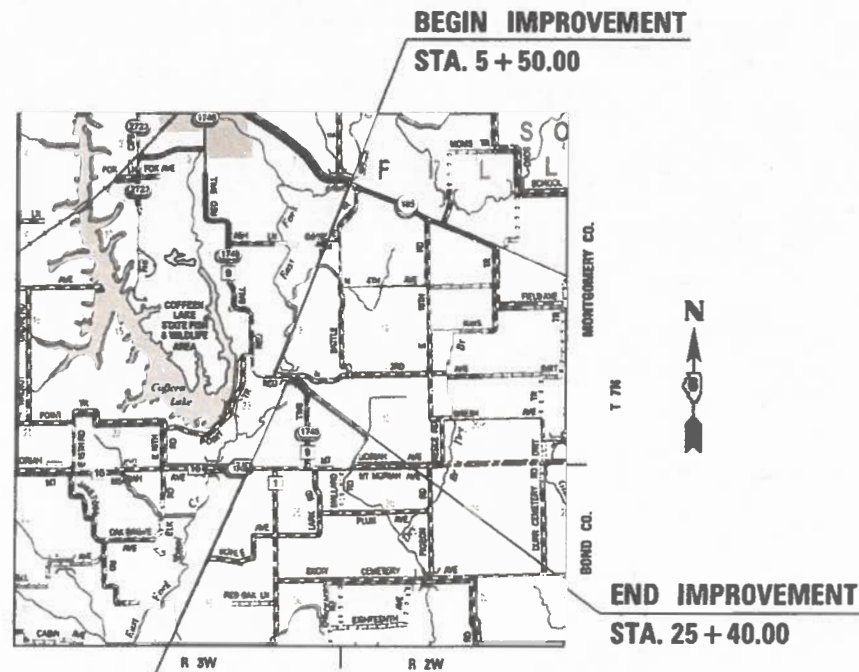
PROJECT ENGINEER - PRAIRIE ENGINEERS
PROJECT MANAGER - ZACHARY LEACH

CONTRACT NO. 93778

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

FAS ROUTE 1746 (CH 9)
SECTION 15-00138-00-BR
PROJECT 1UVB(331)
BRIDGE REPLACEMENT
EAST FORK SHOAL CREEK
MONTGOMERY COUNTY

C-96-073-20



BRIDGE REPLACEMENT
STA. 17 + 85.21
EX. S.N. 068-3034
PR. S.N. 068-3368

GROSS LENGTH = 1,990.00 FT. = 0.377 MILE
NET LENGTH = 1,762.42 FT. = 0.334 MILE

Prairie Engineers
ENGINEERS - SURVEYORS - SCIENTISTS
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Signature: *Zachary D. Leach* Date: 03/08/22
Printed or Typed Name: Zachary D. Leach License Number: 062-065588
Sheets 1-21 and 36-48
My license renewal date is November 30, 2023

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	1
ILLINOIS		CONTRACT NO. 93778		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *[Signature]* 10/10/22
COUNTY ENGINEER

PASSED *[Signature]* 07/14/22
DISTRICT 6 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID *[Signature]* 08/14/22
BASED ON LIMITED REVIEW REGION 4 ENGINEER

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

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
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- 18 PLAN AND PROFILE (3RD AVENUE)
- 19 REMOVAL PLAN (3RD AVENUE)
- 20 DRAINAGE PLAN (3RD AVENUE)
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- 36-38 STRUCTURE PLANS (3RD AVENUE CULVERT)
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- 48-50 CROSS SECTIONS (3RD AVENUE)

GENERAL NOTES

1. ALL ELEVATIONS REFER TO THE NAVD 88 ELEVATION DATUM. HORIZONTAL CONTROL BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM. NAD 1983 (2011) WEST ZONE.
2. IF SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
3. UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY ON HIS OPERATIONS ACCORDINGLY.
4. THE STANDARDS WITH THE REVISION NUMBER LISTED IN THE LIST OF IDOT HIGHWAY STANDARDS INCLUDED IN THE PLANS SHALL HOLD PRECEDENCE OVER THE STANDARD NUMBERS LISTED IN THE SPECIAL PROVISIONS OR PLANS OF THE CONTRACT.
5. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
6. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
7. TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED, AND WHEN PERMANENT SEEDING IS SCHEDULED MORE THAN 7 DAYS FROM ORIGINAL DISTURBANCE OF AN AREA TO BE GRADED OR EXCAVATED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION. EROSION CONTROL BLANKET TO BE UTILIZED AT ALL SLOPED AREAS (1:3 TO 1:2) TO RECEIVE TEMPORARY EROSION CONTROL SEEDING. HEAVY DUTY EROSION CONTROL BLANKET TO BE UTILIZED AT ALL SLOPED AREAS (1:2 OR GREATER) TO RECEIVE TEMPORARY EROSION CONTROL SEEDING.
8. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
9. 10 ft. TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
10. ALL ITEMS IDENTIFIED AS SALVAGE ITEMS WILL BE LOADED BY THE CONTRACTOR AND TRANSPORTED FROM THE SITE BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE REGARDING TIMEFRAME FOR COMPLETION OF THE WORK, AND SHALL GIVE AT LEAST TWO WEEKS NOTICE PRIOR TO SCHEDULED STRUCTURE REMOVAL.
11. CONTRACTOR SHALL CONTACT MONTGOMERY COUNTY HIGHWAY DEPARTMENT A MINIMUM OF 7 DAYS IN ADVANCE OF PLACING ANY TRAFFIC CONTROL.
12. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND VERIFY ALL LENGTHS AND INVERTS OF ALL DRAINAGE ITEMS WITH ENGINEER PRIOR TO ORDERING.
13. DITCH CLEANING/SHAPING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
14. BITUMINOUS SURFACE TREATMENT: GRADATION CA-14 (MID SPEC.) IS ASSUMED FOR COVER COATS AND GRADATION CA-16 (MID-SPEC.) IS ASSUMED FOR SEAL COATS.

THE AGGREGATE SHALL BE EITHER CRUSHED GRAVEL OR CARBONATE CRUSHED STONE AND SHALL BE CLASS C QUALITY OR BETTER. THE RESULTING TARGET APPLICATION RATES ARE AS FOLLOWS.

TYPE OF CONSTRUCTION	BITUMINOUS MATERIAL	APPLICATION RATE (GAL/SQ YD)	AGGREGATE	APPLICATION RATE (LB./SQ. YD.)
TACK COAT (HARD SURFACE)*	ART. 406.02	0.1	FA-1 OR FA-2	3.0
PRIME COAT (AGGREGATE SURFACE)*	MC-30 OR PEP	0.25	FA-1 OR FA-2	4.0
A-1	HFRS-2P / CRS-2P	0.35	CA-16	19.0
A-2 (COVER COAT)	HFRS-2P / CRS-2P	0.32	CA-14	25.0
A-2 (SEAL COAT)	HFRS-2P / CRS-2P	0.4	CA-16	19.0
A-3 (1ST COVER COAT)	HFRS-2P / CRS-2P	0.32	CA-14	25.0
A-3 (2ND COVER COAT)	HFRS-2P / CRS-2P	0.45	CA-14	25.0
A-3 (SEAL COAT)	HFRS-2P / CRS-2P	0.35	CA-16	19.0

* TO BE USED WITH A-1, A-2 AND A-3 SEAL COATS.

NOTE:THE ENGINEER RESERVES THE RIGHT TO ADJUST THE TARGET APPLICATION RATES AND THE QUANTITIES.

NONE

COMMITMENTS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04 NAME PLATE FOR BRIDGES
- 542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS
- 631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- B.L.R. 17-4 TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
- B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- B.L.R. 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

POTENTIAL UTILITIES AFFECTED – OWNERS

UTILITY	OWNER NAME	PHONE
E.J. WATER COOPERATIVE	LEE BACKMAN	(217)347-7262
FRONTIER COMMUNICATIONS	KALIN HINSHAW	(815)895-1515
MJM ELECTRIC	JEROMY MILLER	(217)707-6025
ILLINOIS CONSOLIDATED TELEPHONE	WES CHAMBERS	(217)235-3355

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<p>Prairie Engineers, P.C. 22484 Grossbach Road Washington, IL 61571 (217) 605-0403 www.prairieengineers.com Professional Design Firm No. 1644-005965 © Copyright Prairie Engineers, P.C. 2021</p>	USER NAME = zleach	DESIGNED - ZDL	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/13/2022	DATE -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 93778				
						ILLINOIS FED. AID PROJECT				

F.A.S. 1746 (CH9)
 RURAL 2L/2W
 MAJOR COLLECTOR
 ** STA. 5+50.00 TO STA. 25+40.00
 MONTGOMERY COUNTY
 FUNDING STP 80% FED / 20% STATE
 CONSTR. CODE 0010
 TOTAL QUANTITY

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	4879
20300100	CHANNEL EXCAVATION	CU YD	1879
* 20400800	FURNISHED EXCAVATION	CU YD	5672
20700220	POROUS GRANULAR EMBANKMENT	CU YD	128
20800150	TRENCH BACKFILL	CU YD	149
# 25000300	SEEDING, CLASS 3	ACRE	3
# 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	259
# 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	259
# 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	259
# 25000700	AGRICULTURAL GROUND LIMESTONE	TON	6
# 25100115	MULCH, METHOD 2	ACRE	3
# 25100630	EROSION CONTROL BLANKET	SQ YD	6261
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	289
28000305	TEMPORARY DITCH CHECKS	FOOT	854

* DENOTES SPECIAL PROVISION ** SEE COVER SHEET AND TYPICAL SECTIONS FOR OMISSIONS AND ADDITIONAL STATION INFORMATION #SPECIALTY ITEM

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		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

F.A.S. 1746 (CH9)
 RURAL 2L/2W
 MAJOR COLLECTOR
 ** STA. 5+50.00 TO STA. 25+40.00
 MONTGOMERY COUNTY
 FUNDING STP 80% FED / 20% STATE
 CONSTR. CODE 0010
 TOTAL QUANTITY

CODE NO.	ITEM	UNIT	QUANTITY
28000400	PERIMETER EROSION BARRIER	FOOT	118
28000500	INLET AND PIPE PROTECTION	EACH	6
28100207	STONE RIPRAP, CLASS A4	TON	311
28100209	STONE RIPRAP, CLASS A5	TON	714
28100211	STONE RIPRAP, CLASS A6	TON	324
28200200	FILTER FABRIC	SQ YD	1195
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	5038
40200300	AGGREGATE SURFACE COURSE, TYPE A 4"	SQ YD	4308
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	337
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	52
44000100	PAVEMENT REMOVAL	SQ YD	4836
48101200	AGGREGATE SHOULDERS, TYPE B	TON	268
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1

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		DATE -	REVISED -										

F.A.S. 1746 (CH9)
 RURAL 2L/2W
 MAJOR COLLECTOR
 ** STA. 5+50.00 TO STA. 25+40.00
 MONTGOMERY COUNTY
 FUNDING STP 80% FED / 20% STATE
 CONSTR. CODE 0010
 TOTAL QUANTITY

CODE NO.	ITEM	UNIT	
50105220	PIPE CULVERT REMOVAL	FOOT	149
50200100	STRUCTURE EXCAVATION	CU YD	207
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	35
50300225	CONCRETE STRUCTURES	CU YD	132
50300260	BRIDGE DECK GROOVING	SQ YD	702
50300280	CONCRETE ENCASEMENT	CU YD	3
50300300	PROTECTIVE COAT	SQ YD	787
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	6763
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	22170
50901050	STEEL RAILING, TYPE SM	FOOT	452
51201600	FURNISHING STEEL PILES HP12X53	FOOT	280
51201800	FURNISHING STEEL PILES HP14X73	FOOT	576
51202305	DRIVING PILES	FOOT	856
51203600	TEST PILE STEEL HP12X53	EACH	2

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	3	5	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	5
				CONTRACT NO. 93778
[ILLINOIS] FED. AID PROJECT				

F.A.S. 1746 (CH9)
 RURAL 2L/2W
 MAJOR COLLECTOR
 ** STA. 5+50.00 TO STA. 25+40.00
 MONTGOMERY COUNTY
 FUNDING STP 80% FED / 20%
 STATE CONSTR. CODE 0010
 TOTAL QUANTITY

CODE NO.	ITEM	UNIT	QUANTITY
51203800	TEST PILE STEEL HP14X73	EACH	2
51500100	NAME PLATES	EACH	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	46
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	220
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	70
# 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	500
# 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
# 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	26
67100100	MOBILIZATION	L SUM	1
# 72000100	SIGN PANEL - TYPE 1	SQ FT	23
# 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	4
# 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
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	4	5	5 SHEETS
	STA.		TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	6
CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	

F.A.S. 1746 (CH9)
 RURAL 2L/2W
 MAJOR COLLECTOR
 ** STA. 5+50.00 TO STA. 25+40.00
 MONTGOMERY COUNTY
 FUNDING STP 80% FED / 20% STATE
 CONSTR. CODE 0010
 TOTAL QUANTITY

CODE NO.	ITEM	UNIT	QUANTITY
# 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16
* LR403200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6.1
* LR403400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	27.3
* LR403500	COVER COAT AGGREGATE	TON	145
* LR403600	SEAL COAT AGGREGATE	TON	55
* X0327301	RELOCATE EXISTING MAILBOX	EACH	1
* X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	53
* X1200140	PRECAST CONCRETE BOX CULVERT (SPECIAL)	FOOT	22
* X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	752
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* Z0054500	ROCK FILL	TON	62
# Z0076600	TRAINEES	Hour	1,500
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1,500

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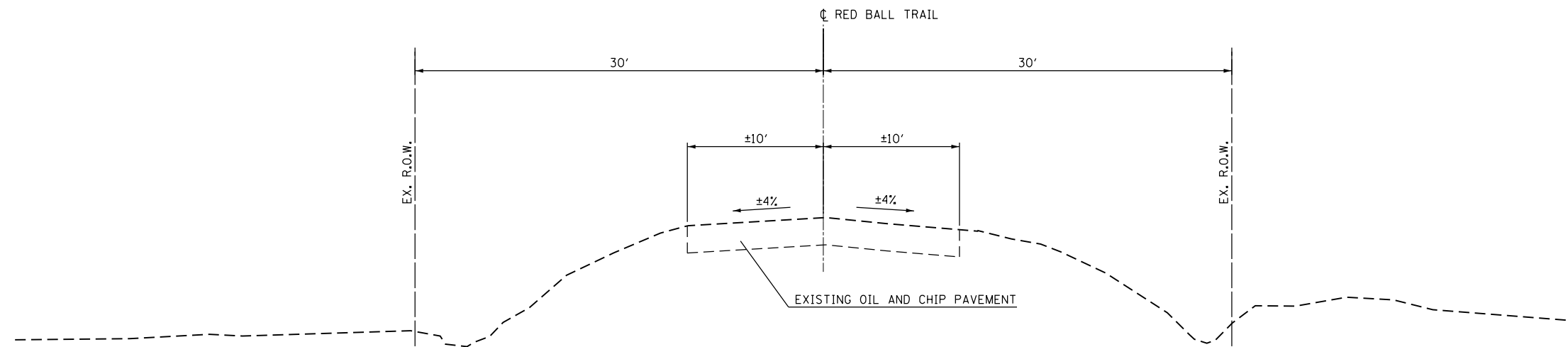
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PLOT DATE = 3/7/2022		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

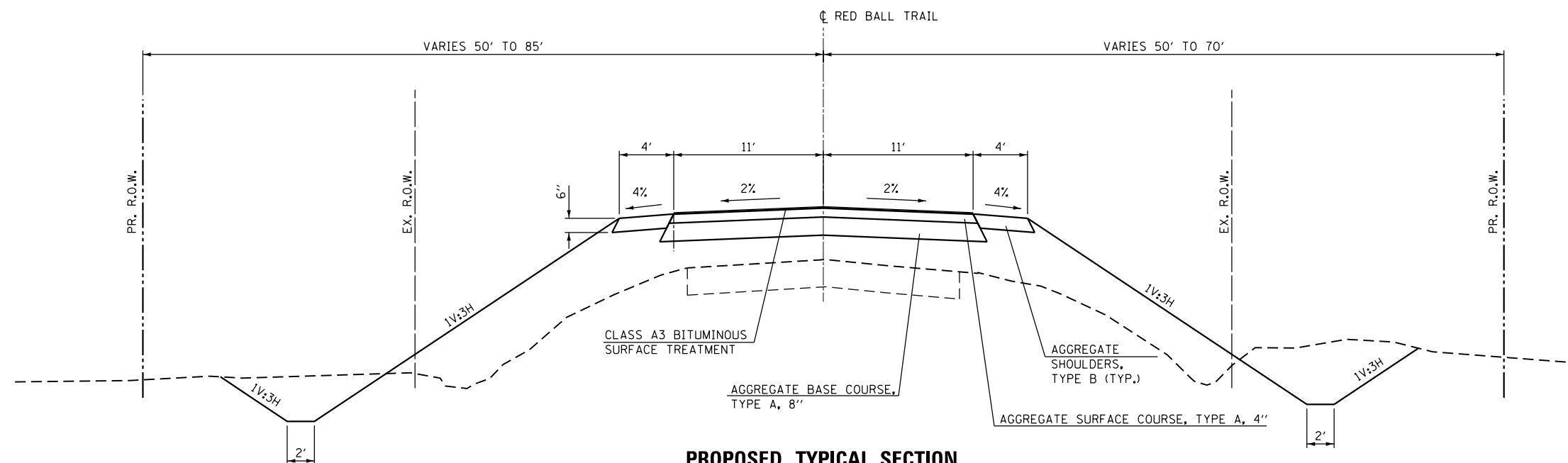
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	7
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

RED BALL TRAIL
 STA. 5+50.00 TO STA. 25+40.00
 (BRIDGE OMISSION STA. 17+62.60 TO STA. 19+16.31)



PROPOSED TYPICAL SECTION

RED BALL TRAIL
 STA. 5+50.00 TO STA. 19+07.54
 STA. 24+63.68 TO STA. 25+40.00
 (BRIDGE OMISSION STA. 16+71.42 TO STA. 18+99.00)

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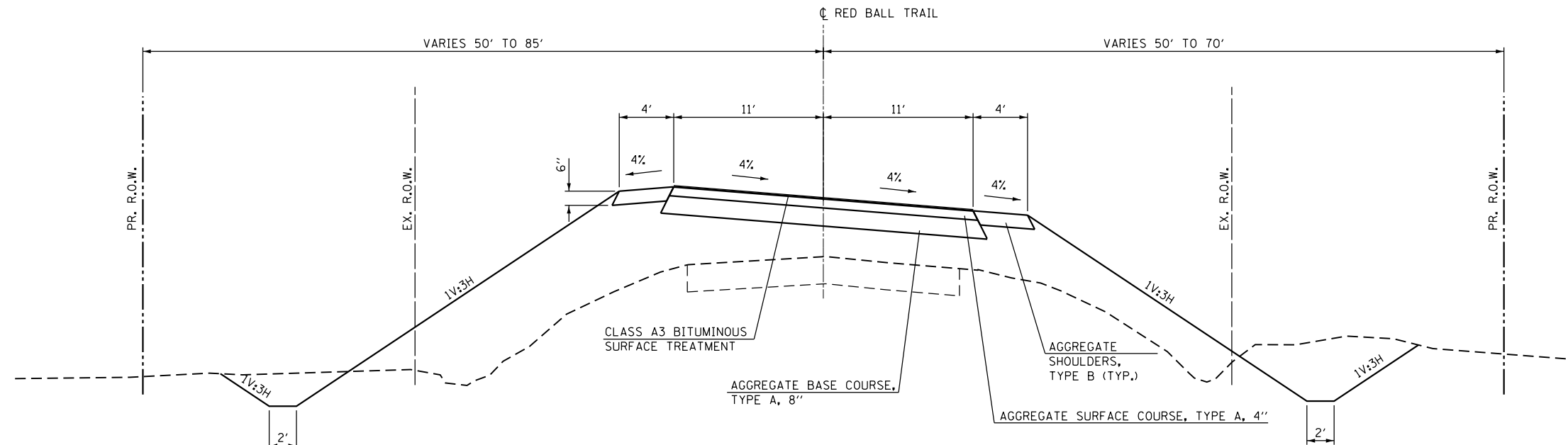
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PLOT DATE = 3/7/2022	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

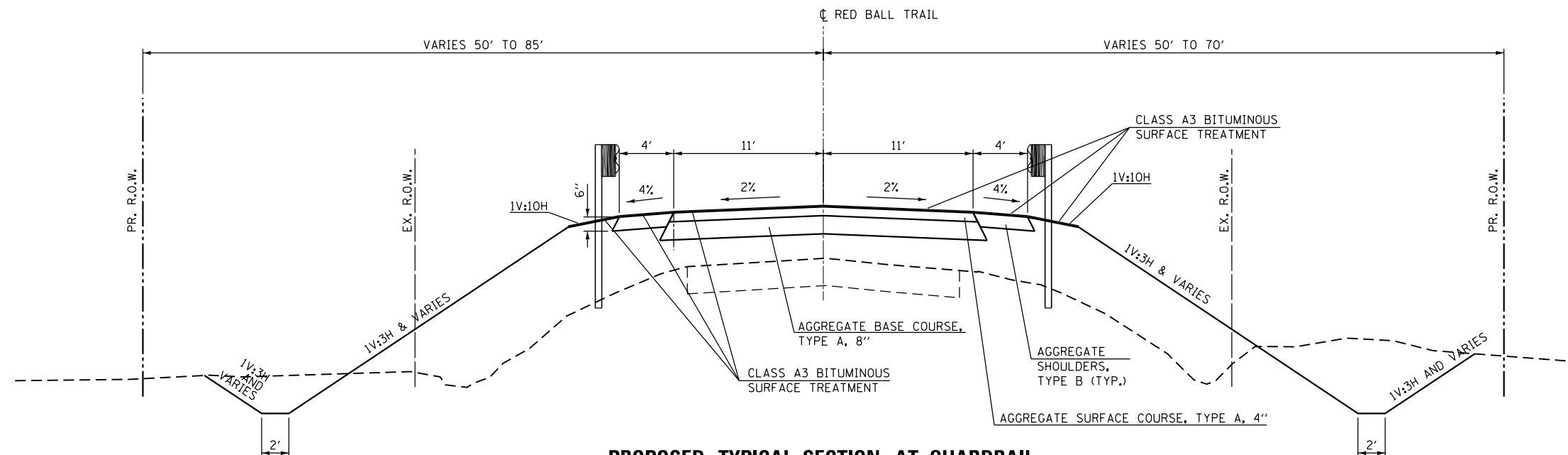
TYPICAL SECTIONS			
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	8
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

RED BALL TRAIL
STA. 19+07.54 TO STA. 24+63.68



PROPOSED TYPICAL SECTION AT GUARDRAIL

RED BALL TRAIL
LEFT STA. 14+71.42 TO STA. 21+19.10
RIGHT STA. 14+71.42 TO STA. 21+29.17
(BRIDGE OMISSION STA. 16+71.42 TO STA. 18+99.00)

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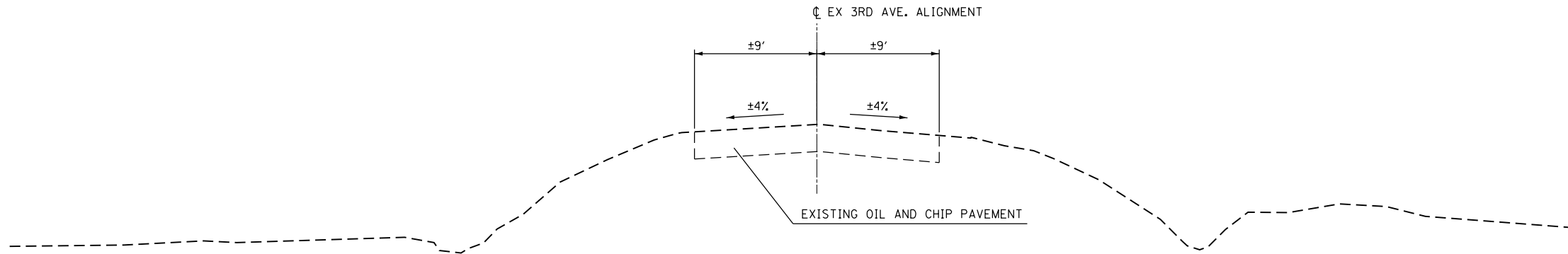
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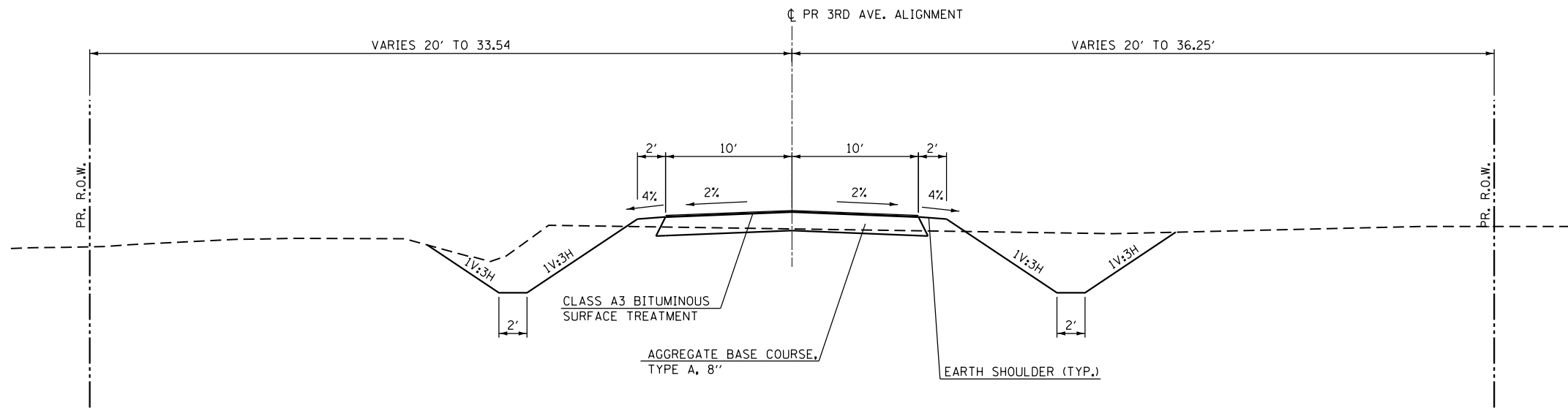
TYPICAL SECTIONS			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	9
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

3RD AVE.
STA. 100+00.00 TO STA. 104+34.32



PROPOSED TYPICAL SECTION

3RD AVE.
STA. 500+00.00 TO STA. 503+40.00

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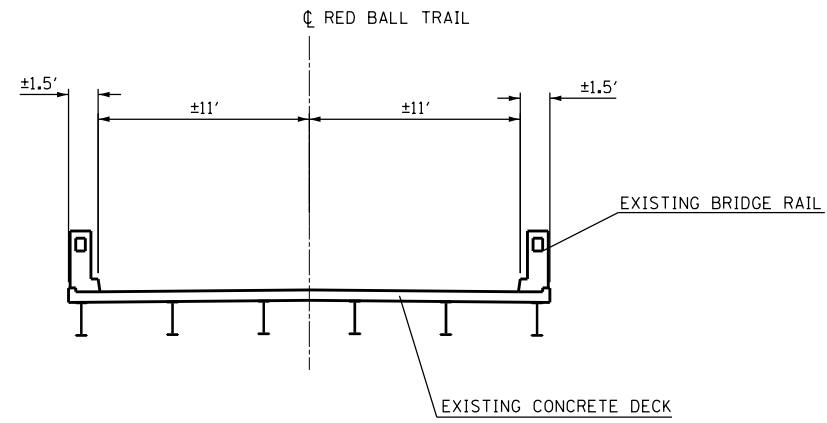
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

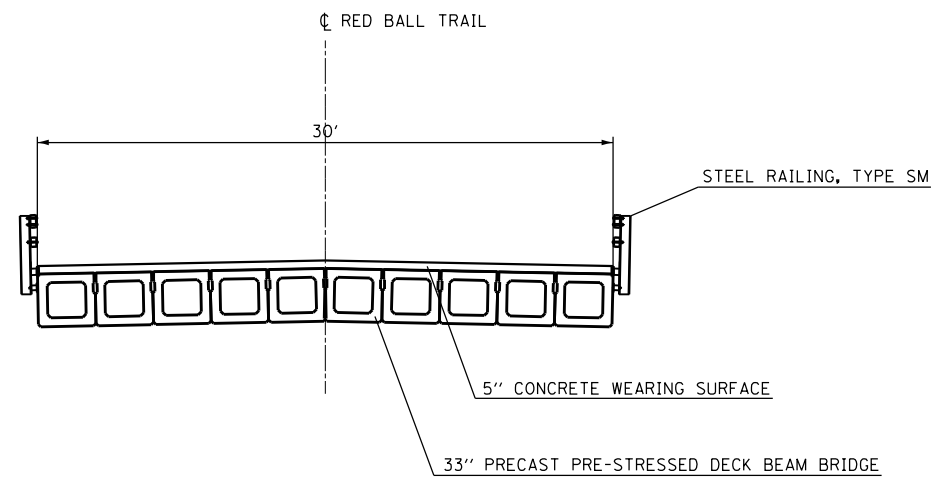
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	10
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL BRIDGE SECTION

RED BALL TRAIL
 STA. 17+62.60 TO STA. 19+16.31



PROPOSED TYPICAL BRIDGE SECTION

RED BALL TRAIL
 STA. 16+71.42 TO STA. 18+99.00

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	DRAWN - RNH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - ZDL	REVISED -
PLOT DATE = 3/7/2022	DATE -	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	11
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

EARTHWORK				
LOCATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE**	REQUIRED FILL	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)
RED BALL TRAIL	-	-	-	-
STA. 5+50.00 TO STA. 25+40.00	4128	3096	8847	-5751
STA. 18+86.64 TO STA. 19+16.31	0	0	190	-190
3RD AVENUE	-	-	-	-
STA. 500+00.00 TO STA. 503+40.00	751	563	294	269
TOTAL	4879	3659	9331	-5672

** AN EARTH SHRINKAGE FACTOR OF 0.75 IS APPLIED TO EARTH EXCAVATION FOR SHRINKAGE.

LOCATION	50200450	20700220	20800150	50105220	54001001	542D1060	542D1063	542D1069	50100300	50100400	X0900064	X1200140	Z0054500
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	POROUS GRANULAR EMBANKMENT	TRENCH BACKFILL	PIPE CULVERT REMOVAL	BOX CULVERT END SECTIONS	PIPE CULVERTS CLASS D TYPE 2 15 INCH	PIPE CULVERTS CLASS D TYPE 2 18 INCH	PIPE CULVERTS CLASS D TYPE 2 24 INCH	REMOVAL OF EXISTING STRUCTURES NO. 1	REMOVAL OF EXISTING STRUCTURES NO. 2	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	PRECAST CONCRETE BOX CULVERT (SPECIAL)	ROCK FILL
	CU YD	CU YD	CU YD	FOOT	EACH	FOOT	FOOT	FOOT	EACH	EACH	SQ YD	FOOT	TON
RED BALL TRAIL	-	-	-	-	-	-	-	-	-	-	-	-	-
STA. 7+81.00 LT	-	-	13	20	-	46	-	-	-	-	-	-	-
STA. 10+16.00 LT	-	-	21	27	-	-	56	-	-	-	-	-	-
STA. 10+16.00 RT	-	-	19	17	-	-	54	-	-	-	-	-	-
STA. 18+39.46 ML	-	-	-	-	-	-	-	-	1	-	-	-	-
STA. 22+43.00 ML	-	-	41	-	-	-	-	70	-	-	-	-	-
EXISTING 3RD AVENUE	-	-	-	-	-	-	-	-	-	-	-	-	-
STA. 100+50.00	-	-	-	49	-	-	-	-	-	-	-	-	-
STA. 103+98.00	-	-	-	36	-	-	-	-	-	-	-	-	-
STA. 103+89.00	-	-	-	-	-	-	-	-	-	1	-	-	-
PROPOSED 3RD AVENUE	-	-	-	-	-	-	-	-	-	-	-	-	-
STA. 500+17.00 ML	-	-	37	-	-	-	70	-	-	-	-	-	-
STA. 500+90.00 LT	-	-	18	-	-	-	40	-	-	-	-	-	-
STA. 502+86.00 ML	35	128	-	-	2	-	-	-	-	-	53	22	62
TOTAL	35	128	149	149	2	46	220	70	1	1	53	22	62

ROW MARKERS	
LOCATION	66600105 FURNISHING AND ERECTING R.O.W. MARKERS
	EACH
RED BALL TRAIL	
STA. 5+50.00	1
STA. 5+50.00	1
STA. 5+50.00	1
STA. 5+50.00	1
STA. 13+00.00	1
STA. 13+00.00	1
STA. 13+00.00	1
STA. 13+00.00	1
STA. 19+00.00	1
STA. 19+00.00	1
STA. 22+85.00	1
STA. 22+85.00	1
STA. 22+85.00	1
STA. 25+40.00	1
STA. 25+40.00	1
STA. 25+40.00	1
STA. 25+40.00	1
PROPOSED 3RD AVENUE	
STA. 500+34.25	1
STA. 502+73.03	1
STA. 502+72.88	1
STA. 503+40.00	1
STA. 500+70.96	1
STA. 501+47.17	1
STA. 502+26.67	1
STA. 503+40.00	1
TOTAL	26

LOCATION	35100700	40200300	40200800	42400200	44000100	48101200	LR403200	LR403400	LR403500	LR403600
	AGGREGATE BASE COURSE TYPE A 8 INCH	AGGREGATE SURFACE COURSE TYPE A 4 IN	AGGREGATE SURFACE COURSE TYPE B	PCC SIDEWALK 5 INCH	PAVEMENT REMOVAL	AGGREGATE SHOULDERS TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	COVER COAT AGGREGATE	SEAL COAT AGGREGATE
	SQ YD	SQ YD	TON	SQ FT	SQ YD	TON	TON	TON	TON	TON
RED BALL TRAIL	-	-	-	-	-	-	-	-	-	-
STA. 5+50.00 TO STA. 14+71.42 ML	-	-	-	-	-	-	2.4	10.6	56	21
STA. 14+71.42 TO STA. 15+21.42 ML	-	-	-	-	-	-	0.2	1.0	5	2
STA. 15+21.42 TO STA. 16+33.92 ML	-	-	-	-	-	-	0.5	2.2	12	5
STA. 16+33.92 TO STA. 16+71.42 ML	-	-	-	-	-	-	0.2	0.8	4	1
STA. 18+99.00 TO STA. 19+36.50 ML	-	-	-	-	-	-	0.2	0.8	4	1
STA. 19+36.50 TO STA. 20+70.66 LT	-	-	-	-	-	-	0.3	1.3	7	3
STA. 19+36.50 TO STA. 20+77.53 RT	-	-	-	-	-	-	0.3	1.4	7	3
STA. 20+70.66 TO STA. 21+19.10 LT	-	-	-	-	-	-	0.1	0.5	3	1
STA. 20+77.53 TO STA. 21+29.17 RT	-	-	-	-	-	-	0.1	0.5	3	1
STA. 21+19.10 TO STA. 25+40.00 LT	-	-	-	-	-	-	0.5	2.4	13	5
STA. 21+29.17 TO STA. 25+40.00 RT	-	-	-	-	-	-	0.5	2.4	13	5
STA. 5+50.00 TO STA. 16+71.42 ML	2741	2741	-	-	-	171	-	-	-	-
STA. 18+99.00 TO STA. 25+40.00 ML	1567	1567	-	-	-	97	-	-	-	-
STA. 5+50.00 TO STA. 17+62.60 ML	-	-	-	-	2695	-	-	-	-	-
STA. 19+16.31 TO STA. 25+40.00 ML	-	-	-	-	1386	-	-	-	-	-
STA. 7+81.00 LT	-	-	30	-	-	-	-	-	-	-
STA. 10+16.00 LT	-	-	48	-	-	-	-	-	-	-
STA. 10+16.00 RT	-	-	43	-	-	-	-	-	-	-
STA. 24+50.00 RT	-	-	30	-	-	-	-	-	-	-
PROPOSED 3RD AVENUE	-	-	-	-	-	-	-	-	-	-
STA. 500+11.75 TO STA. 503+40.00 ML	730	-	-	-	-	-	0.8	3.4	18	7
STA. 501+38.00 LT	-	-	-	52	-	-	-	-	-	-
STA. 500+90.00 LT	-	-	113	-	-	-	-	-	-	-
STA. 501+95.00 LT	-	-	22	-	-	-	-	-	-	-
STA. 502+50.00 RT	-	-	28	-	-	-	-	-	-	-
STA. 502+62.00 LT	-	-	23	-	-	-	-	-	-	-
EXISTING 3RD AVENUE	-	-	-	-	-	-	-	-	-	-
STA. 100+15.95 TO STA. 104+34.32	-	-	-	-	755	-	-	-	-	-
TOTAL	5038	4308	337	52	4836	268	6.1	27.3	145	55

NOTE: ALL QUANTITIES REFERENCED LT & RT FROM C EX. PAVEMENT & PROFILE GRADE LINE.

FILE NAME = I:\Jobs\2016\21116026\0-Drawings\CADD_Sheets\06020000\White\TombRidge-bht-schedule.dwg

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 DATE - 10/26/2022

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.S. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	12
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

GUARDRAIL	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6FT POSTS	63100087 TRAFFIC BARRIER TERMINAL TYPE 6A	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 SP TANGENT	72501000 TERMINAL MARKER DIRECT APPLIED	78200005 GUARDRAIL REFLECTORS TYPE A
LOCATION	FOOT	EACH	EACH	EACH	EACH
RED BALL TRAIL	-	-	-	-	-
STA. 14+71.42 RT & LT	-	-	2	-	-
STA. 14+71.42 TO STA. 15+21.42 RT & LT	-	-	-	-	-
STA. 15+21.42 TO STA. 16+33.92 RT	112.5	-	-	-	-
STA. 15+21.42 TO STA. 16+33.92 LT	112.5	-	-	-	-
STA. 16+33.92 TO STA. 16+71.42 RT & LT	-	2	-	-	-
STA. 18+99.00 TO STA. 19+36.50 LT & LT	-	2	-	-	-
STA. 19+36.50 TO STA. 20+70.66 LT	137.5	-	-	-	-
STA. 19+36.50 TO STA. 20+77.53 RT	137.5	-	-	-	-
STA. 20+70.66 TO STA. 21+19.10 LT	-	-	1	-	-
STA. 20+77.53 TO STA. 21+29.17 RT	-	-	1	-	-
STA. 21+19.10 LT	-	-	-	1	-
STA. 21+29.17 RT	-	-	-	1	-
STA. 14+71.42 TO STA. 16+71.42 RT	-	-	-	-	4
STA. 18+99.00 TO STA. 21+19.10 LT	-	-	-	-	4
STA. 14+71.42 TO STA. 16+71.42 LT	-	-	-	-	4
STA. 18+99.00 TO STA. 21+29.17 RT	-	-	-	-	4
TOTAL	500	4	4	4	16

RIPRAP	28100207 STONE RIPRAP CLASS A4	28200200 FILTER FABRIC
LOCATION	TON	SQ YD
RED BALL TRAIL	-	-
STA. 8+13.00 LT	23	25
STA. 10+58.00 RT	23	25
STA. 10+58.00 LT	23	25
STA. 17+90.00 RT	29	31
STA. 17+90.00 LT	29	31
STA. 18+90.00 RT	29	31
STA. 18+80.00 LT	58	62
STA. 22+40.00 RT	23	25
3RD AVENUE	-	-
STA. 500+35.00 LT	21	22
STA. 500+75.00 LT	21	22
STA. 502+86.00 RT	32	34
TOTAL	311	333

SEEDING AND EROSION	25000300 SEEDING CLASS 3	FERTILIZER NUTRIENTS			25000700 AGRICULTURAL GROUND LIMESTONE	25100115 MULCH METHOD 2	25100630 EROSION CONTROL BLANKET	28000250 TEMPORARY EROSION CONTROL SEEDING
LOCATION	ACRE	25000400 NITROGEN POUNDS	25000500 PHOSPHORUS POUNDS	25000600 POTASSIUM POUNDS	TON	ACRE	SQ YD	POUNDS
RED BALL TRAIL	-	-	-	-	-	-	-	-
STA. 5+50.00 TO STA. 18+00.00 LT	1.11	99.6	99.6	99.6	2.2	1.11	1944	111
STA. 5+50.00 TO STA. 18+00.00 RT	0.95	85.8	85.8	85.8	1.9	0.95	1944	95
STA. 18+90.00 TO STA. 25+40.00 LT	0.51	45.7	45.7	45.7	1.0	0.51	902	51
STA. 18+90.00 TO STA. 25+40.00 RT	0.04	4.0	4.0	4.0	0.1	0.04	1012	5
3RD AVENUE	-	-	-	-	-	-	-	-
STA. 500+00.00 TO STA. 503+40.00 LT	0.15	13.9	13.9	13.9	0.3	0.15	179	15
STA. 500+00.00 TO STA. 503+40.00 RT	0.12	10.4	10.4	10.4	0.3	0.12	280	12
TOTAL	3.00	259	259	259	5.8	3.00	6261	289

72400600 - RELOCATE SIGN PANEL ASSEMBLY - TYPE B		
LOCATION	DESCRIPTION	EACH
3RD AVE.		
EX STA. 100+35.00 21.5' LT	STOP SIGN	1
PR STA. 500+27.00 25.6' LT		
EX STA. 100+38.00 24.4' LT	STREET SIGN	1
PR STA. 500+20.00 27.2' LT		
EX STA. 101+63.00 27.5' LT	STOP SIGN	1
PR STA. 500+70.00 17.5' LT		
EX STA. 101+60.00 21.2' LT	STREET SIGN	1
PR STA. 500+62.00 18.7' LT		
TOTAL		4

72000100 SIGN PANEL, TYPE 1				
LOCATION	DESCRIPTION	SIZE	QUANTITY	
RED BALL TRAIL				
STA. 16+52.00 21.0' RT	W1-2R	36"x36"	9.00	
STA. 16+52.00 21.0' RT	W13-1P	18"x18"	2.25	
STA. 25+36.00 21.0' LT	W1-2	36"x36"	9.00	
STA. 25+36.00 21.0' LT	W13-1P	18"x18"	2.25	
TOTAL (ROUNDED)			23	

EROSION CONTROL	28000305 TEMPORARY DITCH CHECKS	28000400 PERIMETER EROSION BARRIER	28000500 INLET AND PIPE PROTECTION
LOCATION	FOOT	FOOT	EACH
RED BALL TRAIL	-	-	-
STA. 7+58.00 LT	-	-	1
STA. 9+83.00 RT	-	-	1
STA. 9+84.00 RT	-	-	1
STA. 22+42.00 LT	-	-	1
STA. 5+50.00 LT	14	-	-
STA. 5+50.00 RT	14	-	-
STA. 5+75.00 RT	14	-	-
STA. 5+84.00 LT	14	-	-
STA. 6+00.00 RT	14	-	-
STA. 6+18.00 LT	14	-	-
STA. 6+25.00 RT	14	-	-
STA. 6+52.00 LT	14	-	-
STA. 6+86.00 LT	14	-	-
STA. 6+97.00 RT	14	-	-
STA. 7+20.00 LT	14	-	-
STA. 7+44.00 RT	14	-	-
STA. 7+54.00 LT	14	-	-
STA. 7+88.00 LT	14	-	-
STA. 7+91.00 RT	14	-	-
STA. 8+38.00 RT	14	-	-
STA. 8+48.00 LT	14	-	-
STA. 8+85.00 RT	14	-	-
STA. 9+08.00 LT	14	-	-
STA. 9+32.00 RT	14	-	-
STA. 9+68.00 LT	14	-	-
STA. 9+79.00 RT	14	-	-
STA. 10+28.00LT	14	-	-
STA. 11+29.00RT	14	-	-
STA. 11+78.00LT	14	-	-
STA. 12+79.00RT	14	-	-
STA. 13+28.00LT	14	-	-
STA. 14+29.00RT	14	-	-
STA. 14+78.00LT	14	-	-
STA. 15+79.00RT	14	-	-
STA. 16+28.00LT	14	-	-
STA. 17+29.00RT	14	-	-
STA. 17+80.00LT	14	-	-
STA. 17+80.00RT	14	-	-
STA. 19+00.00LT	14	-	-
STA. 19+00.00RT	14	-	-
STA. 19+24.00RT	14	-	-
STA. 19+60.00LT	14	-	-
STA. 19+66.00RT	14	-	-
STA. 20+08.00RT	14	-	-
STA. 20+50.00RT	14	-	-
STA. 20+60.00LT	14	-	-
STA. 21+10.00LT	14	-	-
STA. 21+30.00RT	14	-	-
STA. 21+60.00LT	14	-	-
STA. 22+30.00LT	14	-	-
STA. 22+30.00RT	14	-	-
STA. 23+00.00LT	14	-	-
STA. 23+30.00RT	14	-	-
STA. 24+02.00LT	14	-	-
STA. 24+18.00LT	14	-	-
STA. 24+30.00RT	14	-	-
STA. 24+34.00LT	14	-	-
STA. 24+50.00LT	14	-	-
PROPOSED 3RD AVENUE	-	-	-
STA. 500+23.00 RT	-	-	1
STA. 501+04.00 LT	-	-	1
STA. 500+09.00 LT	14	-	-
STA. 500+18.00 RT	14	-	-
STA. 500+51.00 LT	14	-	-
STA. 500+93.00 LT	14	-	-
STA. 501+35.00 LT	14	-	-
STA. 501+68.00 RT	14	-	-
STA. 502+29.00 RT	14	-	-
EXISTING 3RD AVE.	-	-	-
100+57.31 20.0' RT	-	START	-
100+60.46 13.3' RT	-	17	-
101+77.97 13.8' RT	-	101	-
TOTAL	854	118	6

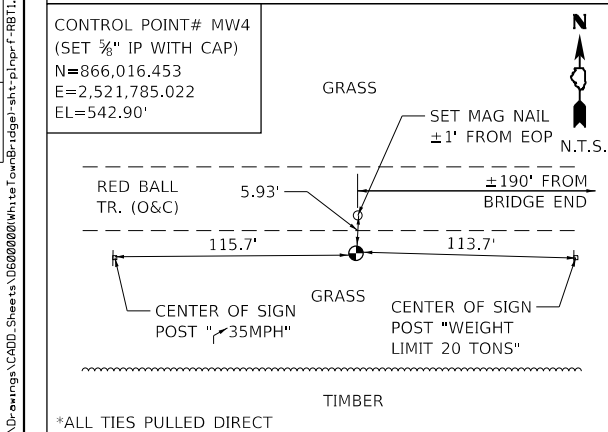
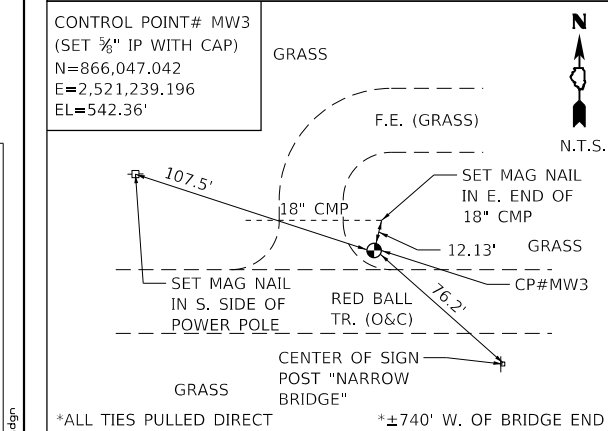
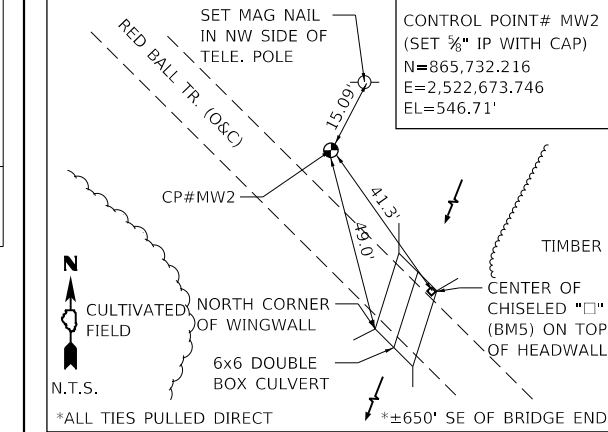
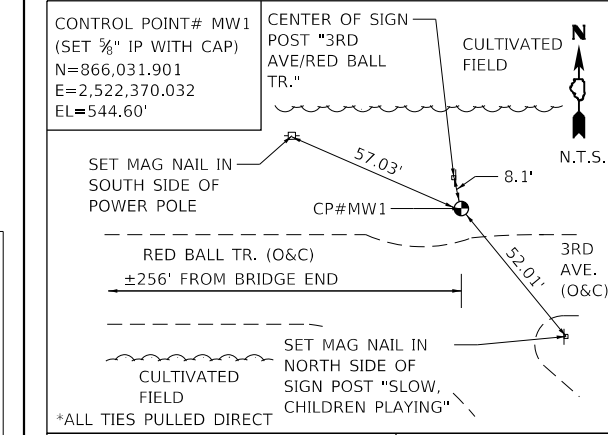
NOTE: ALL QUANTITIES REFERENCED
LT & RT FROM C EX. PAVEMENT &
PROFILE GRADE LINE.

FILE NAME = I:\Jobs\2016\211160236\0-Plans\CADD_Sheets\06020000\White\Bridg-hnt-schedule.dwg

Prairie Engineers, P.C. 2284 Grossbach Road Washington, IL 61571 (217) 605-0463 www.prairieengineers.com <small>professional design firm no. 164-005965 © Copyright Prairie Engineers, P.C. 2021</small>	USER NAME = rhenke	DESIGNED - ZDL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.S. RTE. 1746	SECTION 15-00138-00-BR	COUNTY MONTGOMERY	TOTAL SHEETS 50	SHEET NO. 13
	PLOT SCALE = 2.0000' / in.	CHECKED - ZDL	REVISED -			SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 93778 ILLINOIS FED. AID PROJECT
	PLOT DATE = 3/7/2022	DATE -	REVISED -							

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

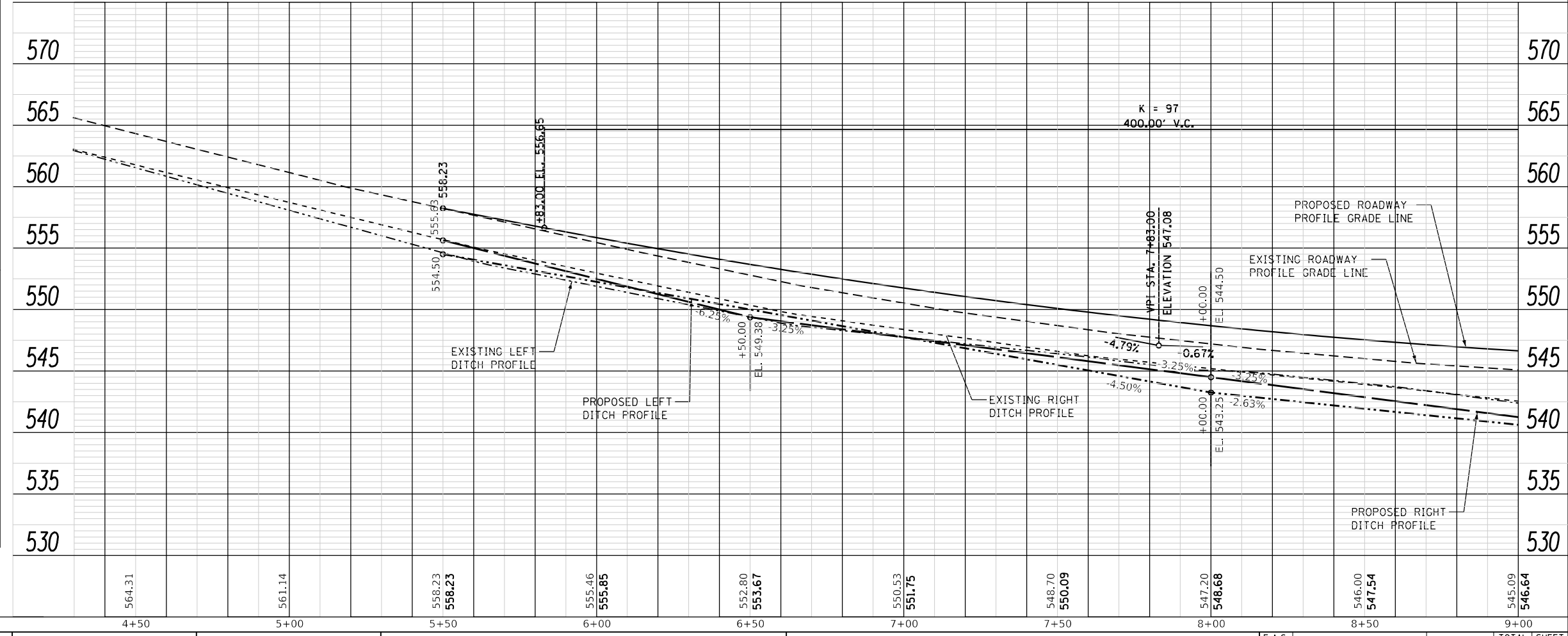
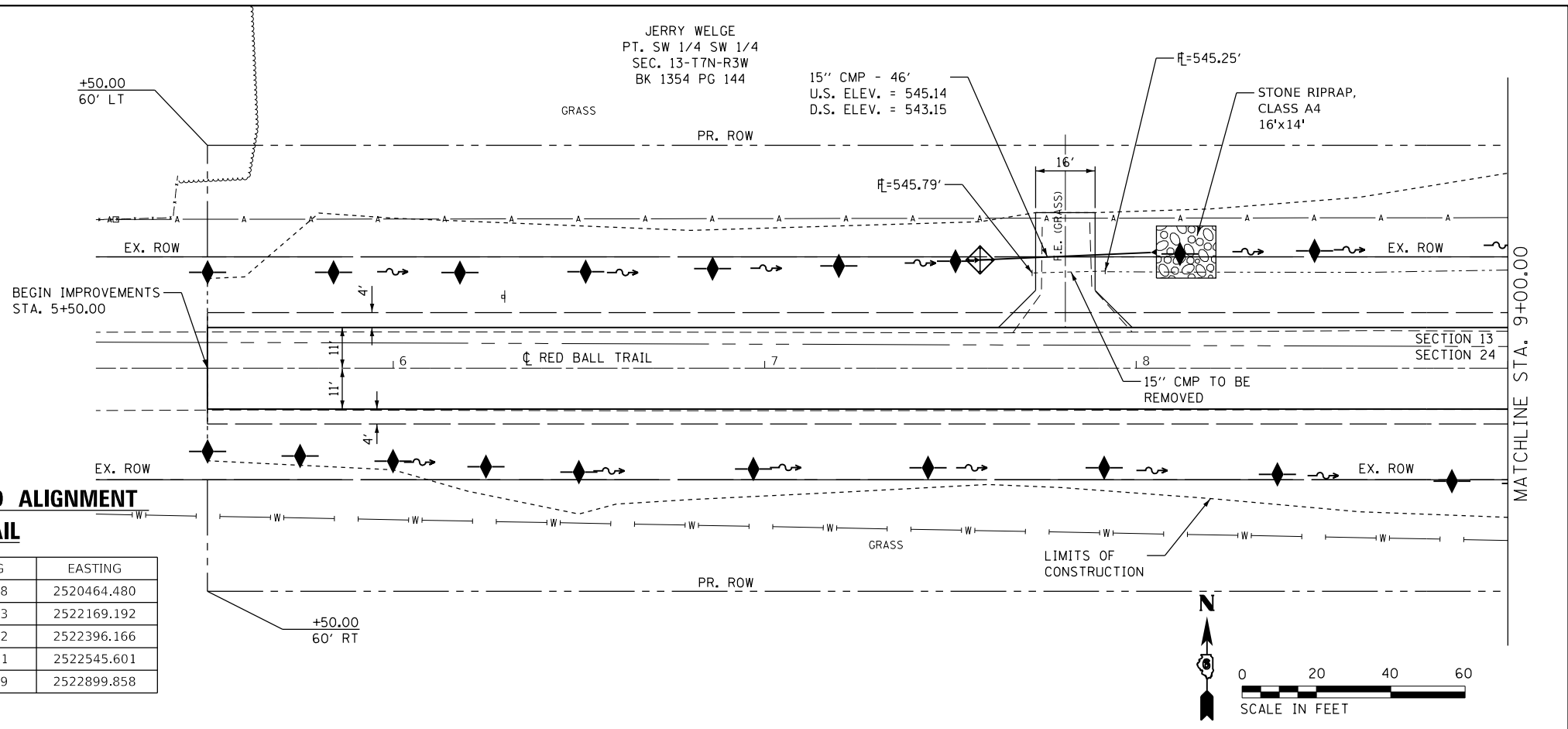
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BY	
PROFILE	SURVEYED
	GRADES CHECKED
	NOTE BOOK
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	STRUCTURE
	NOT AT THIS OFFICE
	FILE NAME



NOTE: INSTALL EROSION CONTROL BLANKET IN ALL DITCHES MINIMUM WIDTH 14 FT.

**EXISTING AND PROPOSED ALIGNMENT
RED BALL TRAIL**

DESCRIPTION	STATION	NORTHING	EASTING
POT	2+50.00	866031.378	2520464.480
PC	19+59.54	866031.773	2522169.192
PI	21+86.52	866031.802	2522396.166
PT	23+85.68	865860.961	2522545.601
POT	29+23.75	865455.959	2522899.858



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USER NAME = rhenke	DESIGNED - ZDL	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - RNH	REVISED -
PLOT DATE = 3/7/2022	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
RED BALL TR. OVER E. FORK SHOAL CREEK

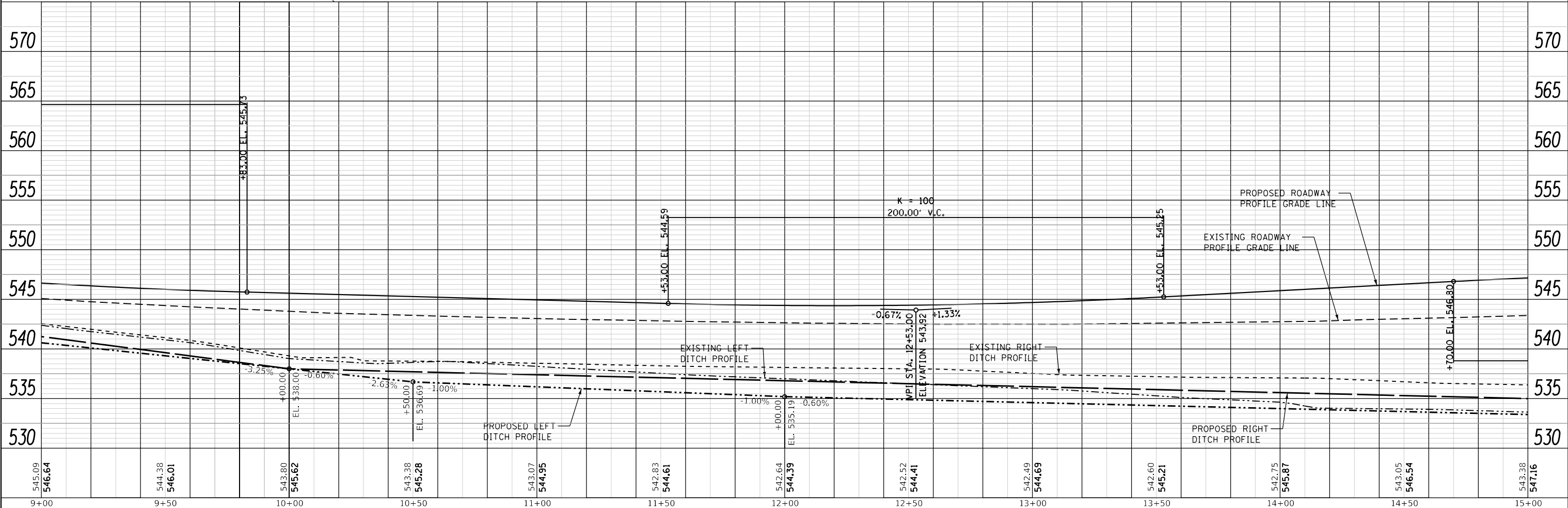
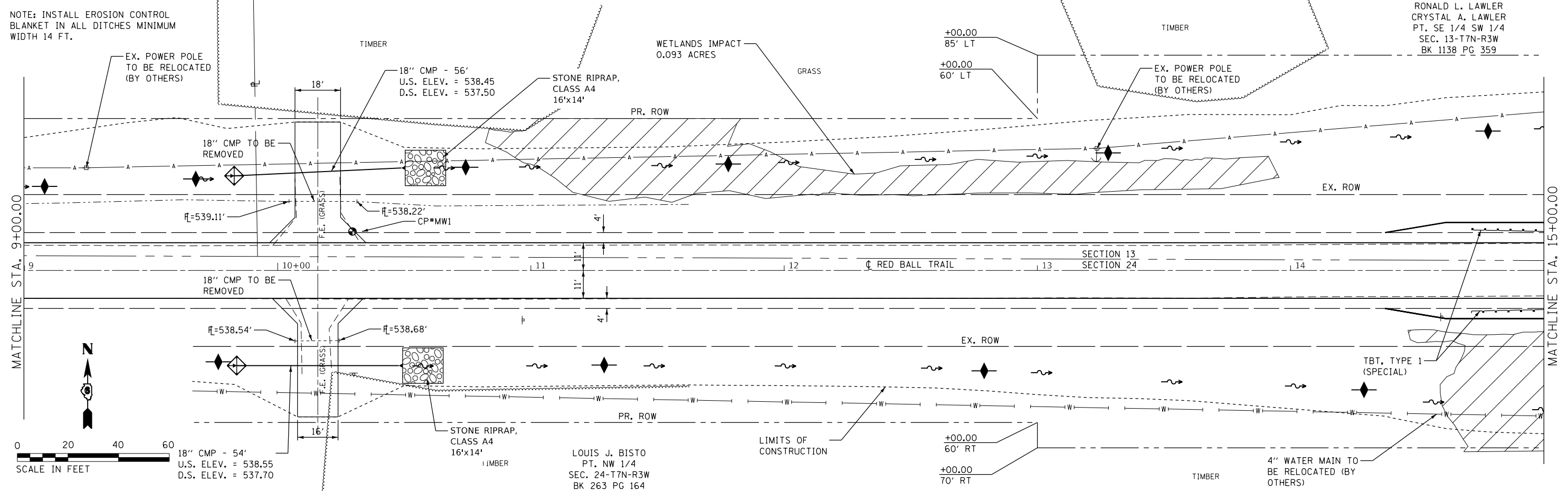
SCALE: 1" = 20'

SHEET 1 OF 4 SHEETS

STA. 5+50.00 TO STA. 9+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	14
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

RONALD L. LAWLER
CRYSTAL A. LAWLER
PT. SE 1/4 SW 1/4
SEC. 13-T7N-R3W
BK 1138 PG 359



PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
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	STRUCTURE	
	NOT AT THIS OFFICE	

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	DRAWN - RNH	REVISED -
	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
RED BALL TR. OVER E. FORK SHOAL CREEK**
SCALE: 1"=20'
SHEET 2 OF 4 SHEETS
STA. 9+00.00 TO STA. 15+00.00

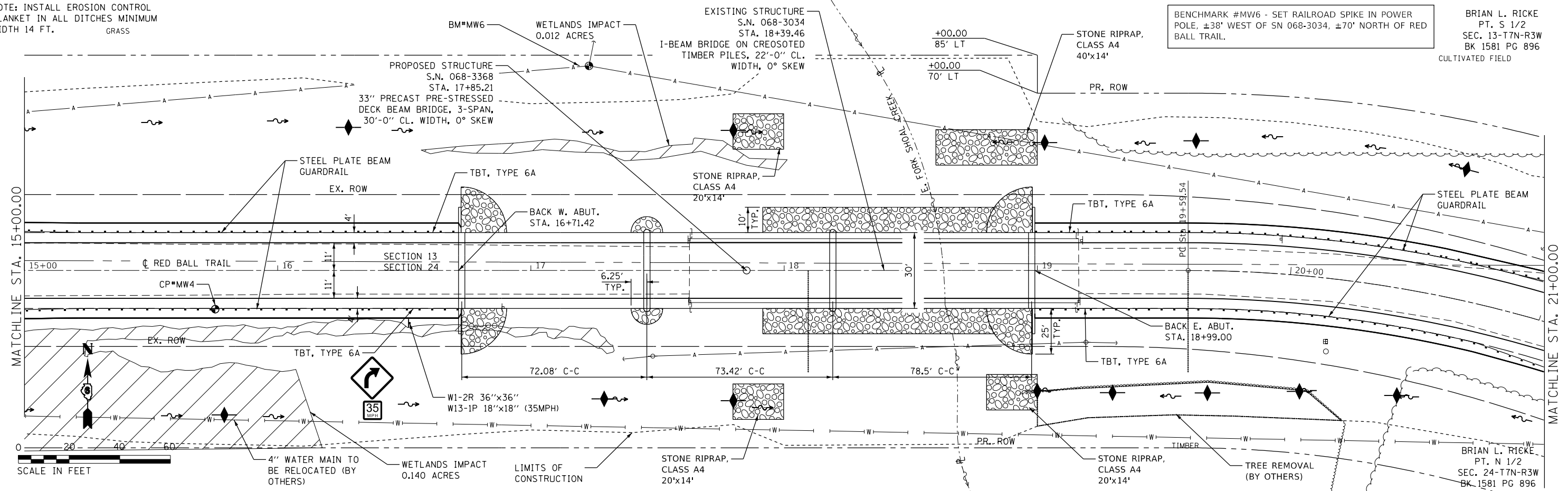
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1746	15-00138-00-BR	MONTGOMERY	50	15
CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	

NOTE: INSTALL EROSION CONTROL BLANKET IN ALL DITCHES MINIMUM WIDTH 14 FT. GRASS

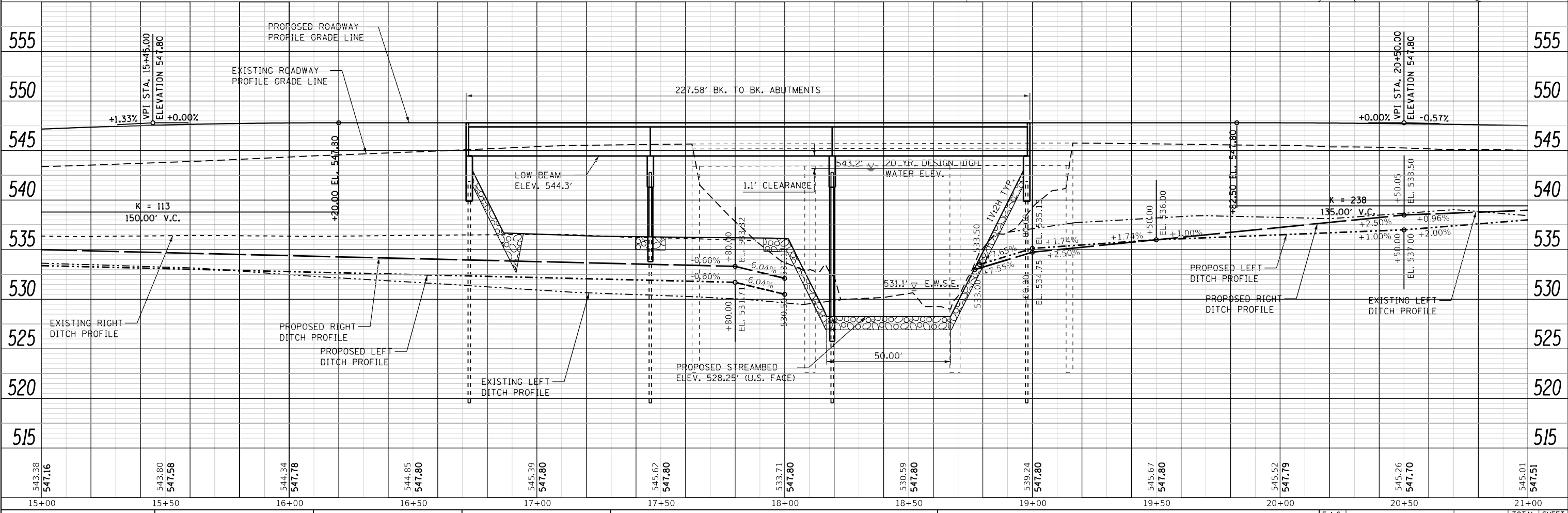
BENCHMARK #MW6 - SET RAILROAD SPIKE IN POWER POLE, ±38' WEST OF SN 068-3034, ±70' NORTH OF RED BALL TRAIL.

BRIAN L. RICKE
PT. S 1/2
SEC. 13-T7N-R3W
BK 1581 PG 896
CULTIVATED FIELD

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	



DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	



543.38 547.16	543.80 547.58	544.34 547.78	544.85 547.80	545.39 547.80	545.62 547.80	533.71 547.80	530.59 547.80	539.24 547.80	545.67 547.80	545.52 547.79	545.26 547.70	545.01 547.51
15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00

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DATE -

REVISOR -
REVISION -
REVISION -
REVISION -
REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
RED BALL TR. OVER E. FORK SHOAL CREEK**
SCALE: 1"=20'
SHEET 3 OF 4 SHEETS
STA. 15+00.00 TO STA. 21+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	16
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

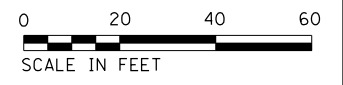
BRIAN L. RICKE
PT. S 1/2
SEC. 13-T7N-R3W
BK 1581 PG 896

BENCHMARK #MW5 - SET CHISELED "□" ON SOUTHEAST
CORNER OF EAST HEADWALL OF 6"x6" DOUBLE BOX
CULVERT., ±690' EAST OF SN 068-3034.

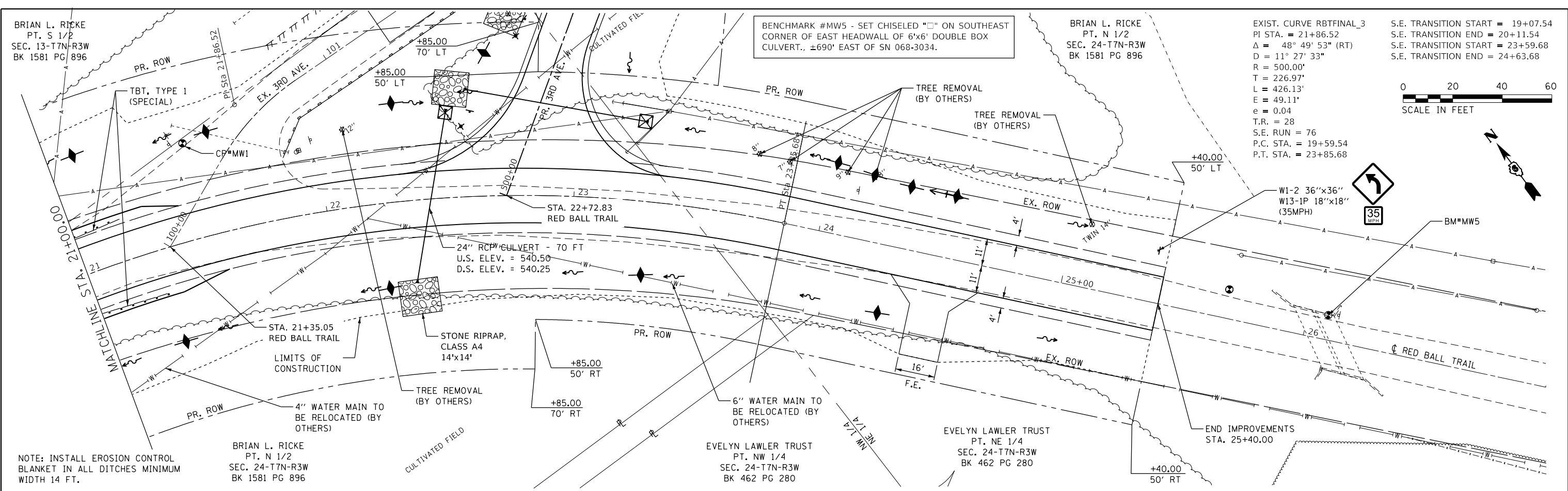
BRIAN L. RICKE
PT. N 1/2
SEC. 24-T7N-R3W
BK 1581 PG 896

EXIST. CURVE RBTFINAL_3
PI STA. = 21+86.52
Δ = 48° 49' 53" (RT)
D = 11° 27' 33"
R = 500.00'
T = 226.97'
L = 426.13'
E = 49.11'
e = 0.04
T.R. = 28
S.E. RUN = 76
P.C. STA. = 19+59.54
P.T. STA. = 23+85.68

S.E. TRANSITION START = 19+07.54
S.E. TRANSITION END = 20+11.54
S.E. TRANSITION START = 23+59.68
S.E. TRANSITION END = 24+63.68



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTED	FILE NAME
	NO.	



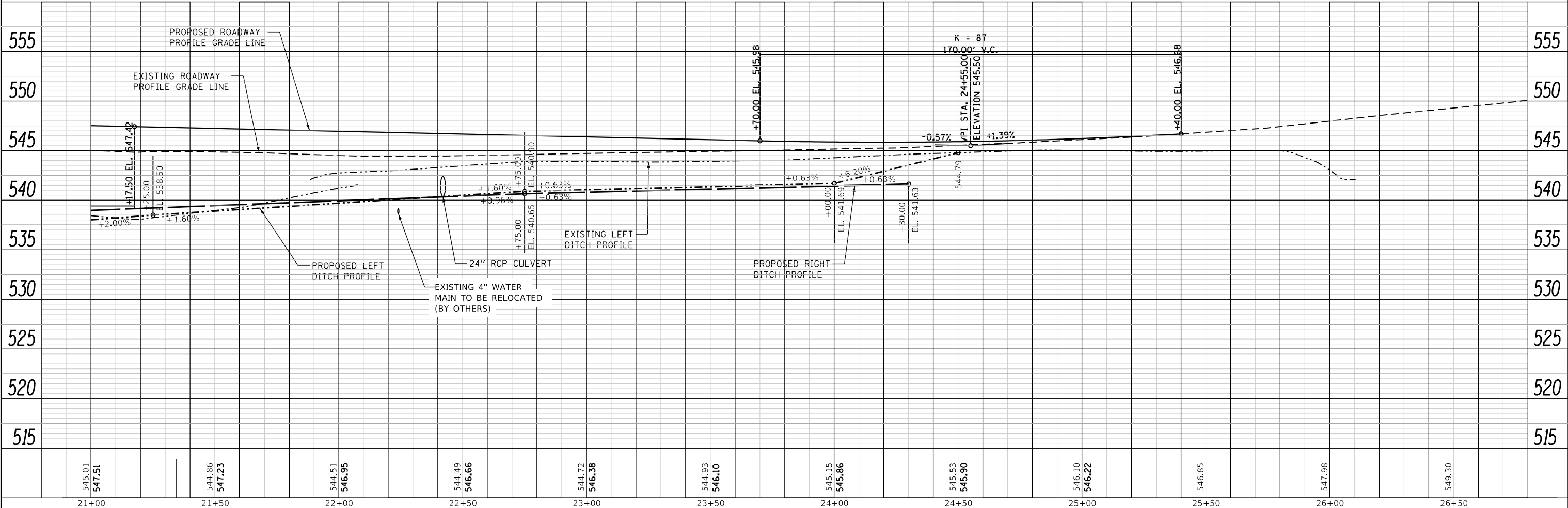
NOTE: INSTALL EROSION CONTROL
BLANKET IN ALL DITCHES MINIMUM
WIDTH 14 FT.

BRIAN L. RICKE
PT. N 1/2
SEC. 24-T7N-R3W
BK 1581 PG 896

EVELYN LAWLER TRUST
PT. NW 1/4
SEC. 24-T7N-R3W
BK 462 PG 280

EVELYN LAWLER TRUST
PT. NE 1/4
SEC. 24-T7N-R3W
BK 462 PG 280

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



545.01 547.51	544.86 547.23	544.51 546.95	544.49 546.66	544.72 546.38	544.93 546.10	545.15 545.86	545.53 545.90	546.10 546.22	546.85	547.98	549.30
21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50	26+00	26+50

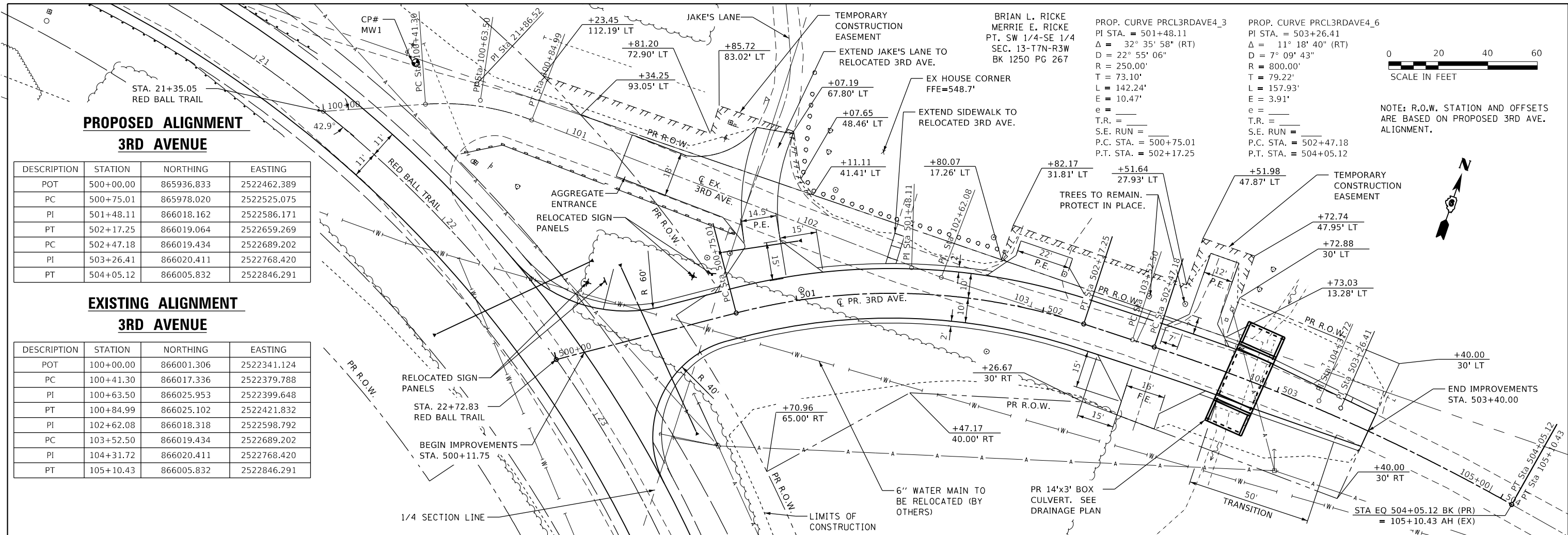
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PLOT DATE = 3/7/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
RED BALL TR. OVER E. FORK SHOAL CREEK
SCALE: 1"=20'
SHEET 4 OF 4 SHEETS
STA. 21+00.00 TO STA. 25+40.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	17
CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	

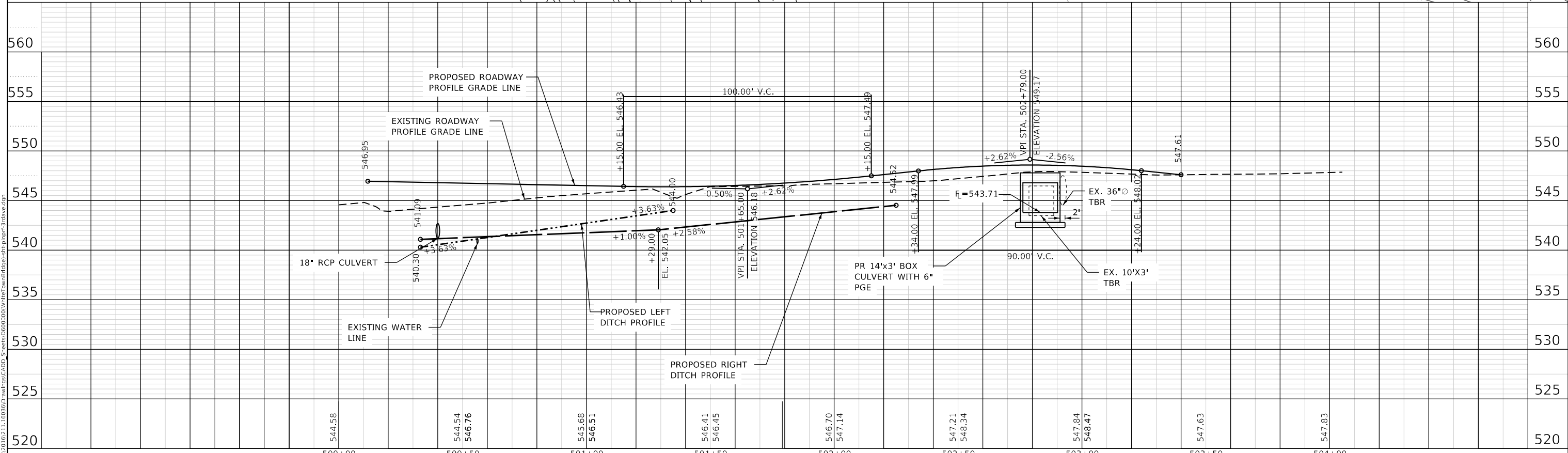
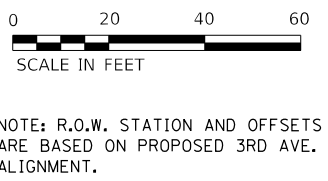


DESCRIPTION	STATION	NORTHING	EASTING
POT	500+00.00	865936.833	2522462.389
PC	500+75.01	865978.020	2522525.075
PI	501+48.11	866018.162	2522586.171
PT	502+17.25	866019.064	2522659.269
PC	502+47.18	866019.434	2522689.202
PI	503+26.41	866020.411	2522768.420
PT	504+05.12	866005.832	2522846.291

DESCRIPTION	STATION	NORTHING	EASTING
POT	100+00.00	866001.306	2522341.124
PC	100+41.30	866017.336	2522379.788
PI	100+63.50	866025.953	2522399.648
PT	100+84.99	866025.102	2522421.832
PI	102+62.08	866018.318	2522598.792
PC	103+52.50	866019.434	2522689.202
PI	104+31.72	866020.411	2522768.420
PT	105+10.43	866005.832	2522846.291

PROP. CURVE PRC13RDAVE4_3
 PI STA. = 501+48.11
 $\Delta = 32^\circ 35' 58''$ (RT)
 $D = 22^\circ 55' 06''$
 $R = 250.00'$
 $T = 73.10'$
 $L = 142.24'$
 $E = 10.47'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 500+75.01$
 $P.T. STA. = 502+17.25$

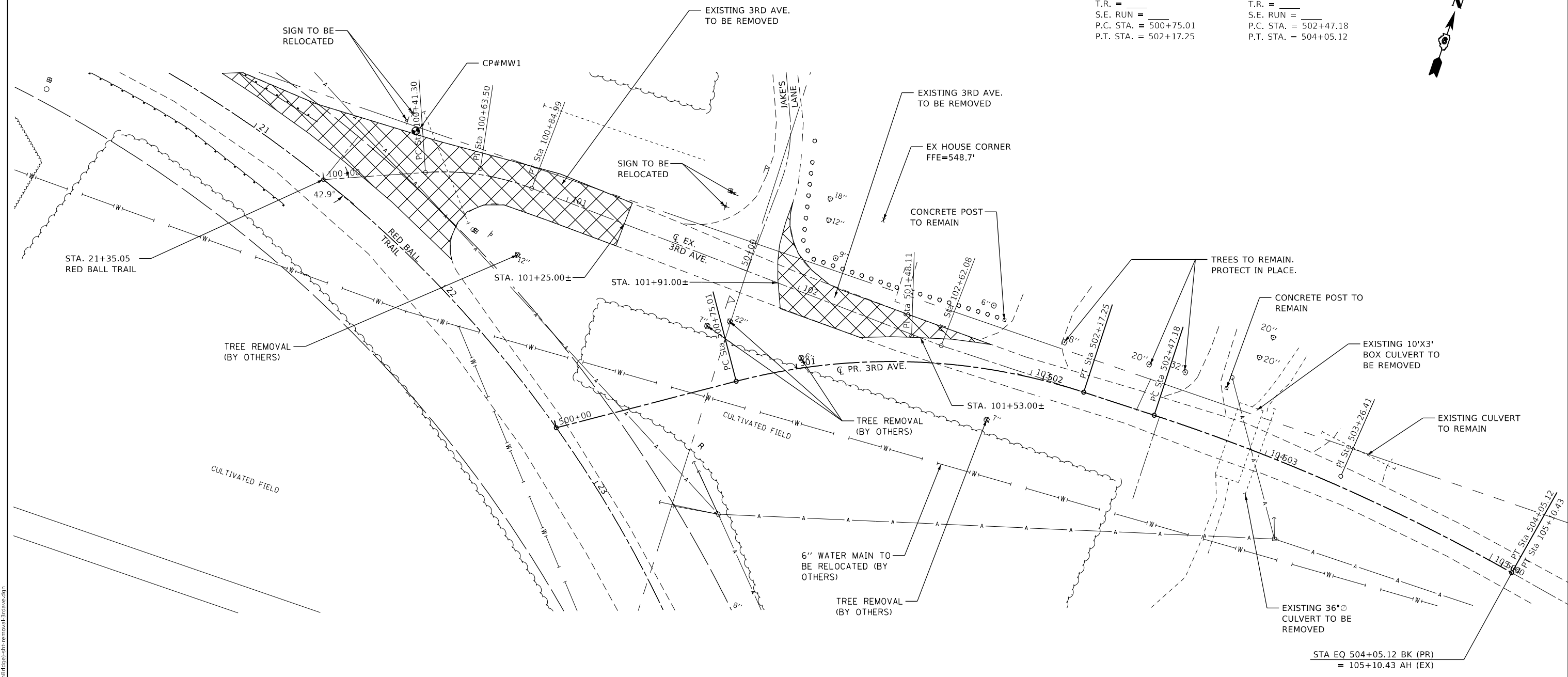
PROP. CURVE PRC13RDAVE4_6
 PI STA. = 503+26.41
 $\Delta = 11^\circ 18' 40''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 79.22'$
 $L = 157.93'$
 $E = 3.91'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 502+47.18$
 $P.T. STA. = 504+05.12$



Prairie Engineers, P.C. 22484 Grossbach Road Washington, IL 61571 (217) 605-0463 www.prairieengineers.com professional design firm no. 1644-005965 © Copyright Prairie Engineers, P.C. 2021	USER NAME = rheinke PLOT SCALE = 40.0000' / in. PLOT DATE = 3/7/2022	DESIGNED - ZDL DRAWN - RNH CHECKED - ZDL DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE 3RD AVENUE SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 500+00.00 TO STA. 503+40.00	F.A.S. RTE. 1746 SECTION 15-00138-00-BR COUNTY MONTGOMERY TOTAL SHEETS 50 SHEET NO. 18 CONTRACT NO. 93778 ILLINOIS FED. AID PROJECT
--	--	--	--	---	--	---

PROP. CURVE PRCL3RDAVE4_3
 PI STA. = 501+48.11
 $\Delta = 32^\circ 35' 58''$ (RT)
 $D = 22^\circ 55' 06''$
 $R = 250.00'$
 $T = 73.10'$
 $L = 142.24'$
 $E = 10.47'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. \text{ RUN} = \text{---}$
 $P.C. \text{ STA.} = 500+75.01$
 $P.T. \text{ STA.} = 502+17.25$

PROP. CURVE PRCL3RDAVE4_6
 PI STA. = 503+26.41
 $\Delta = 11^\circ 18' 40''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 79.22'$
 $L = 157.93'$
 $E = 3.91'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. \text{ RUN} = \text{---}$
 $P.C. \text{ STA.} = 502+47.18$
 $P.T. \text{ STA.} = 504+05.12$



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PLOT DATE = 3/7/2022	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
3RD AVENUE**

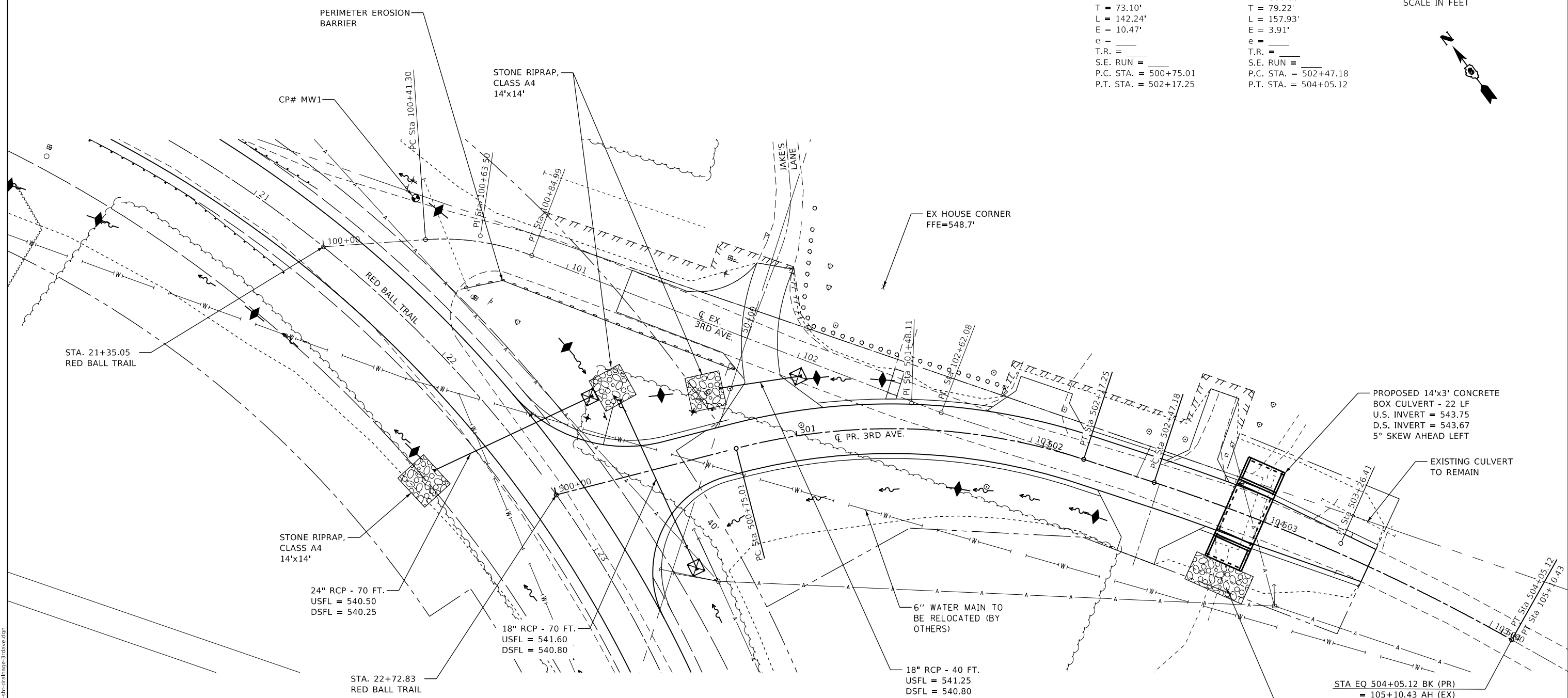
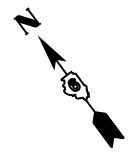
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	19
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

NOTE: INSTALL EROSION CONTROL BLANKET IN ALL DITCHES MINIMUM WIDTH 14 FT.

PROP. CURVE PRCL3RDAVE4_3
 PI STA. = 501+48.11
 $\Delta = 32^\circ 35' 58''$ (RT)
 $D = 22^\circ 55' 06''$
 $R = 250.00'$
 $T = 73.10'$
 $L = 142.24'$
 $E = 10.47'$
 $e = \quad$
 $T.R. = \quad$
 $S.E. RUN = \quad$
 $P.C. STA. = 500+75.01$
 $P.T. STA. = 502+17.25$

PROP. CURVE PRCL3RDAVE4_6
 PI STA. = 503+26.41
 $\Delta = 11^\circ 18' 40''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 79.22'$
 $L = 157.93'$
 $E = 3.91'$
 $e = \quad$
 $T.R. = \quad$
 $S.E. RUN = \quad$
 $P.C. STA. = 502+47.18$
 $P.T. STA. = 504+05.12$



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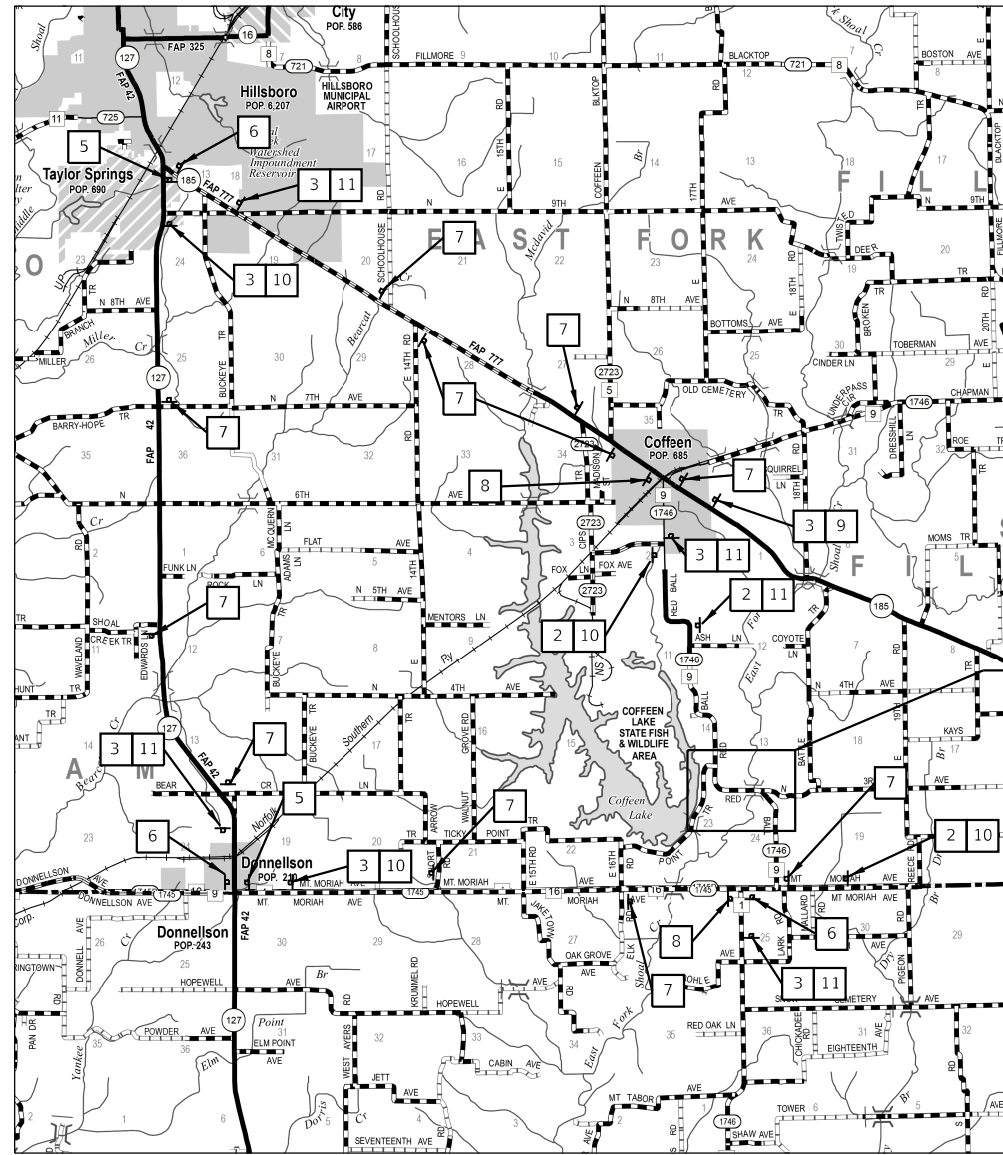
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PLOT DATE = 3/7/2022	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN
 3RD AVENUE**

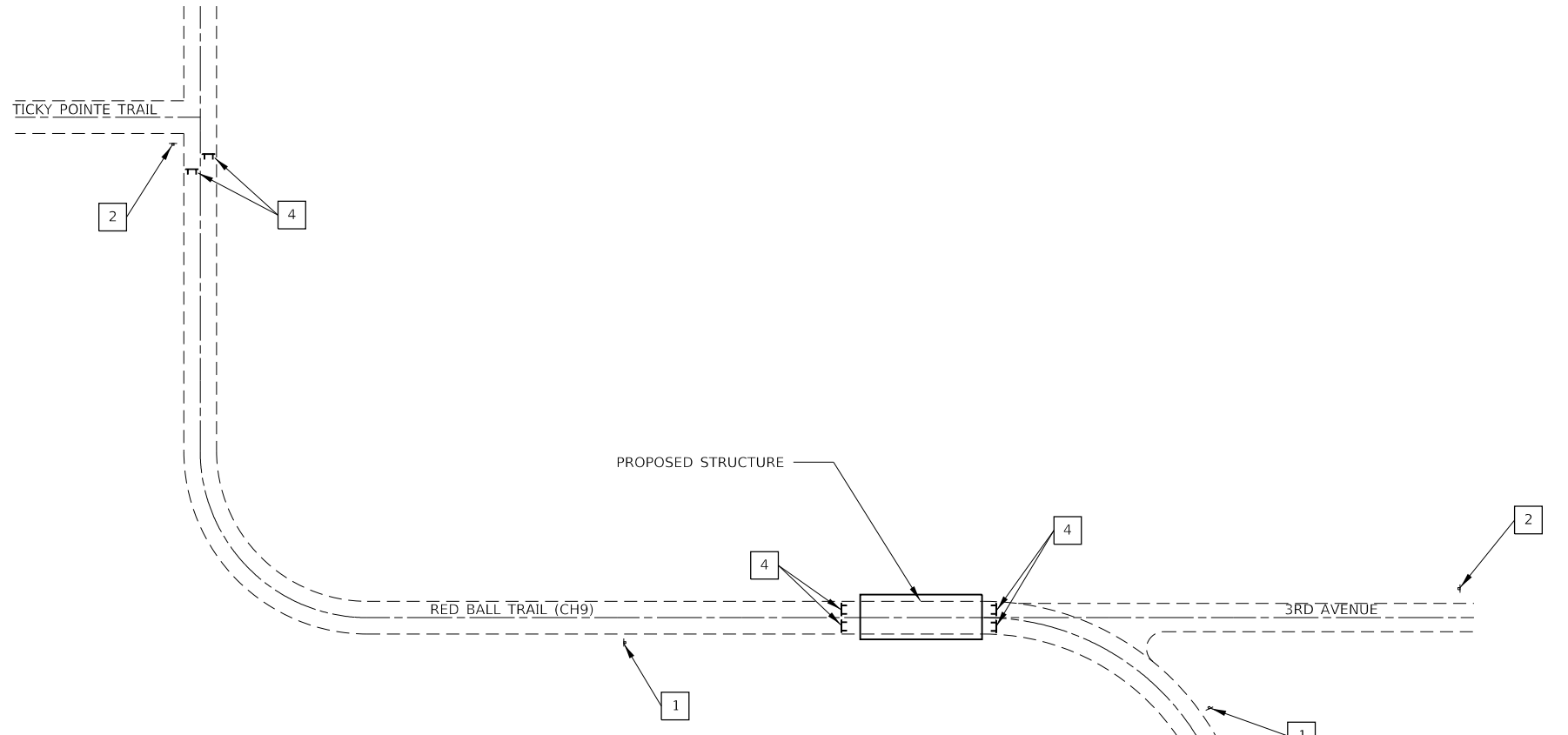
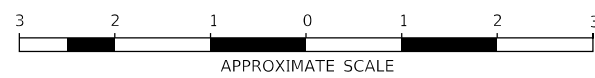
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	20
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



DETOUR PLAN

SCALE: 1" = 1 MI



PROJECT LOCATION
SEE ROAD CLOSURE AT STRUCTURE DETAIL

ROAD CLOSURE AT STRUCTURE DETAIL

SCALE: NTS
SEE STD. B.L.R. 21 AND STD. 701901
FOR ADDITIONAL REQUIREMENTS

LEGEND

- 1 ROAD CLOSED 500'
W20-3 (0) 48x48
- 2 ROAD CLOSED AHEAD
W20-3 (0) 48x48
- 3 DETOUR 1000 FT
W20-2 (0) 48x48
W16-8P
- 4 ROAD CLOSED
R11-2 48X30
- 5 DETOUR
M4-9(R) (0) 30X24
W16-8P
- 6 DETOUR
M4-9(L) (0) 30X24
W16-8P
- 7 DETOUR
M4-9 (0) 30X24
W16-8P
- 8 END DETOUR
M4-8a (0) 24x18
- 9 MS-1 (0) 21x15
- 10 MS-1(R) (0) 21x15
- 11 MS-1(L) (0) 21x15

- TYPE III BARRICADE
- TEMPORARY TRAFFIC ADVISORY SIGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	21
CONTRACT NO. 93778				
		ILLINOIS	FED. AID PROJECT	

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PLOT DATE = 3/7/2022

DESIGNED - ZDL
DRAWN - RNH
CHECKED - ZDL
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

Bench Marks:
 BM#5 Set chiseled "□" on S.E. corner of east headwall of 6'x6' double box culvert.
 Sta. 26+08.18, 9.99' LT. Elev. 548.92

BM#6 Set railroad spike in power pole. Sta. 17+22.95, 80.75' LT. Elev. 539.93

Existing Structure: S.N. 068-3034 was built in 1944 as MFT Section 22-B on S.A. Route 9 at Station 18+39.5. Structure consists of a three span steel girder and concrete deck superstructure supported by two bents of timber piles at each pier and a single row of timber piles with a concrete cap at each abutment. Length is 154' back to back abutments and width is approximately 27' out to out deck.

Bridge to be constructed under road closure of FAS 1746.

No salvage.

GENERAL NOTES

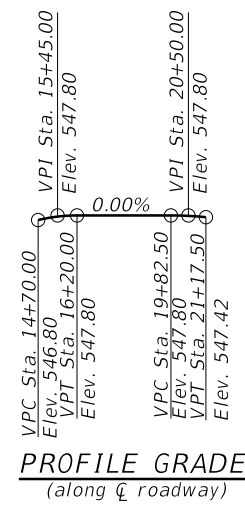
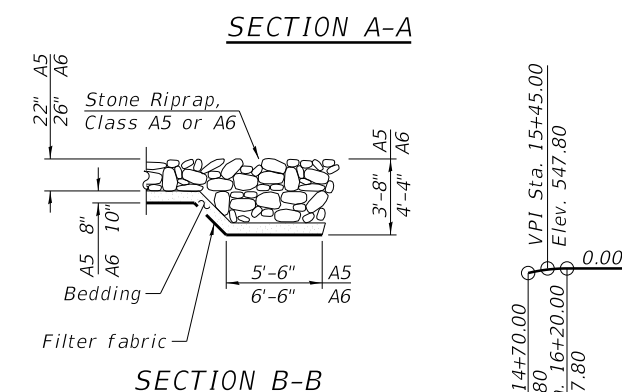
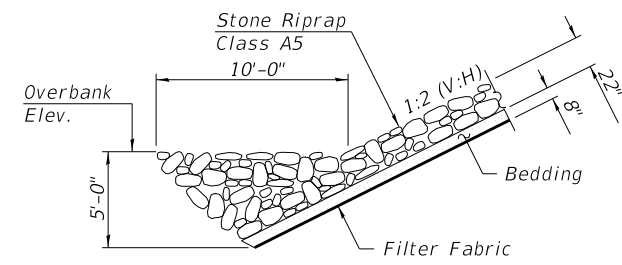
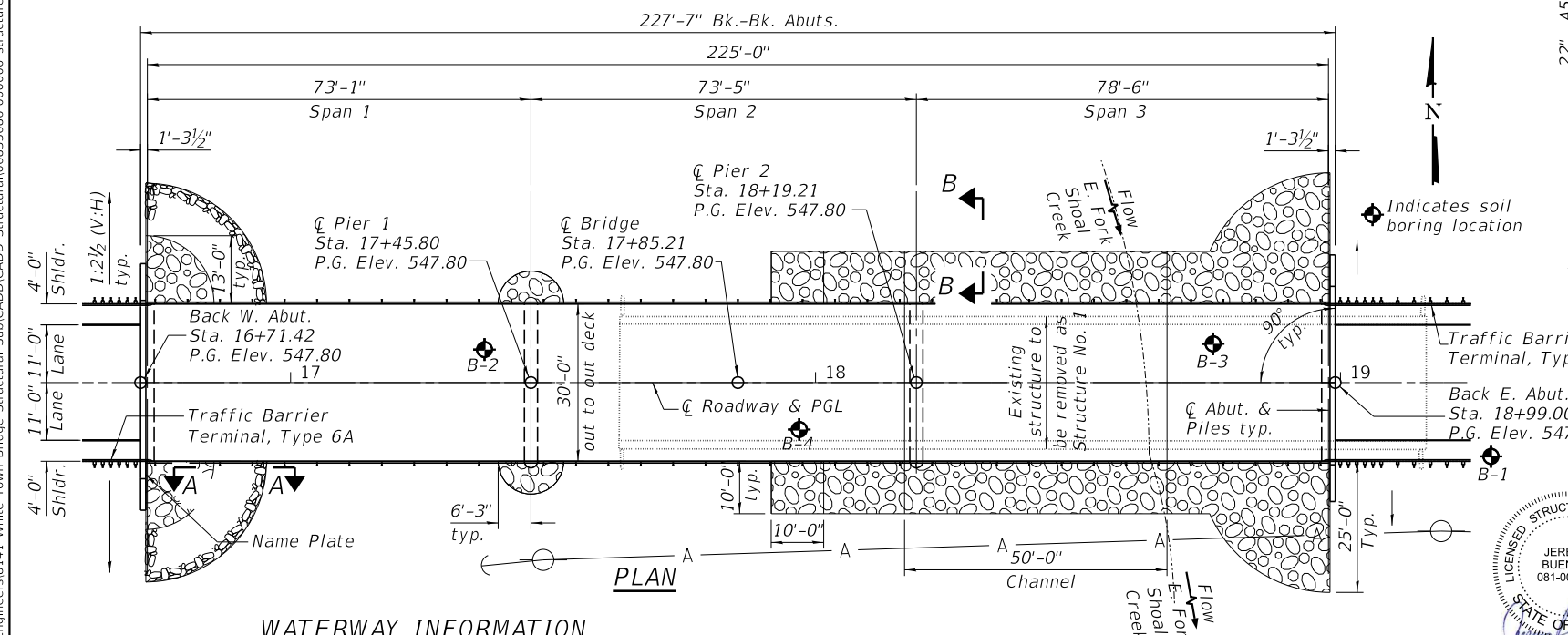
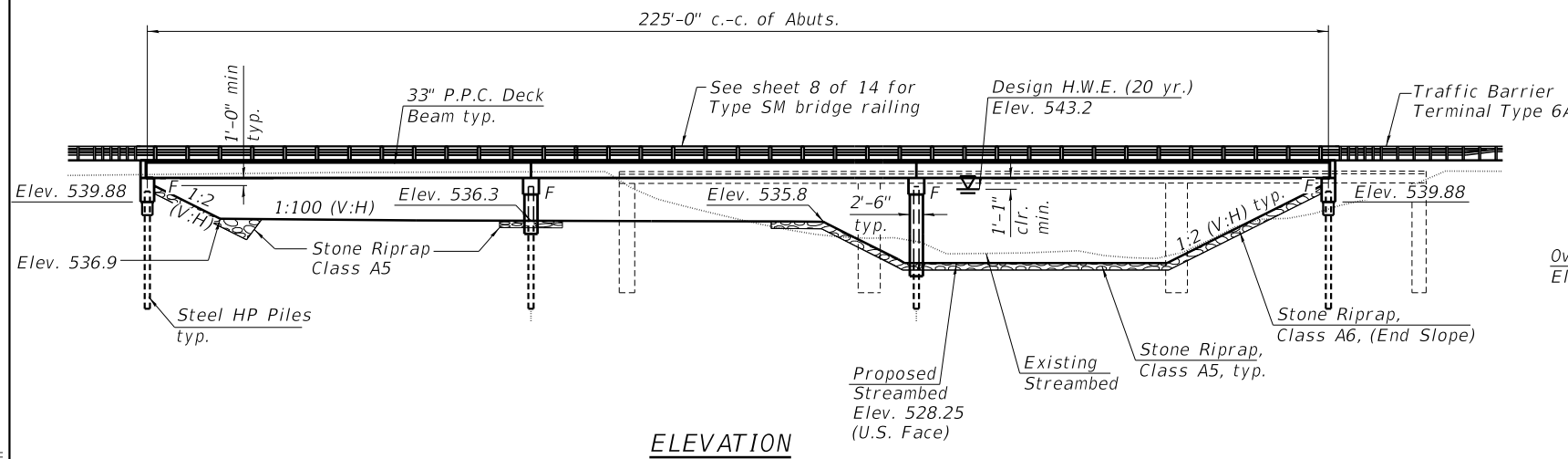
Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the ENGINEER.
 Substructure units are expected to be constructed without the use of cofferdams. Refer to section 502 for additional information.
 Apply protective coat to top and sides of concrete wearing surface, tops of wingwalls and top of backwall.

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 Superstructure
- 3 Superstructure Details
- 4 33"x36" PPC Deck Beam (Spans 1 & 2)
- 5 33"x36" PPC Deck Beam Details (Spans 1 & 2)
- 6 33"x36" PPC Deck Beam (Span 3)
- 7 33"x36" PPC Deck Beam Details (Span 3)
- 8 Steel Railing, Type SM with Concrete Wearing Surface
- 9 Abutments
- 10 Pier 1
- 11 Pier 2
- 12 HP Pile Details
- 13 Soil Boring Logs 1
- 14 Soil Boring Logs 2

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.	-	-	1879
Stone Riprap, Class A5	Ton	-	714	714
Stone Riprap, Class A6	Ton	-	324	324
Filter Fabric	Sq. Yd.	-	862	862
Removal of Existing Structures No. 1	Each	-	-	1
Structure Excavation	Cu. Yd.	-	207	207
Concrete Structures	Cu. Yd.	-	132.2	132.2
Bridge Deck Grooving	Sq. Yd.	702	-	702
Concrete Encasement	Cu. Yd.	-	2.9	2.9
Protective Coat	Sq. Yd.	776	11	787
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	6,763	-	6,763
Reinforcement Bars, Epoxy Coated	Pound	9,900	12,270	22,170
Steel Railing, Type SM	Foot	452	-	452
Furnishing Steel Piles HP 12x53	Foot	-	280	280
Furnishing Steel Piles HP 14x73	Foot	-	576	576
Driving Piles	Foot	-	856	856
Test Pile Steel HP 12x53	Each	-	2	2
Test Pile Steel HP 14x73	Each	-	2	2
Name Plates	Each	1	-	1
Concrete Wearing Surface, 5"	Sq. Yd.	752	-	752



EAST FORK SHOAL CREEK
 BUILT 20__ BY
 MONTGOMERY COUNTY
 SEC. 15-00138-00-BR
 F.A.S. ROUTE 1746 STA. 17+85.21
 STR. NO. 068-3368 LOADING HL-93

NAME PLATE
 See Std. 515001
DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition
LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
 f_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)
 f_c = 5,000 psi (Wearing Surface Concrete)
PRECAST UNITS
 f_c = 6,000 psi
 f_{ci} = 5,000 psi
 f_{pu} = 270,000 psi (1/2" Ø low lax. strands)
 f_{pbt} = 201,960 psi (1/2" Ø low lax. strands)

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.217
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.478
 Soil Site Class = D

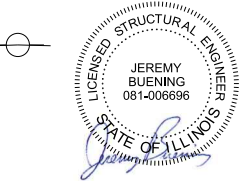
WATERWAY INFORMATION

Drainage Area = 82.2 sq. mi. Low Grade Elev. 544.4 @ Sta. 17+85.21

Flood	Freq. Yr.	Q	Opening Ft ²		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	20	7500	1278	1971	543.2	1.2	0.9	544.4	544.1
Base	100	11000	1278	2216	544.4	0.6	0.6	545.0	545.0
Scour Design	200	12000	1278	2216	544.8	-	0.7	-	545.5
Overtop Ex.	6	5000	1160	1728	542.1	1.2	-	543.3	-
Overtop Pr.	50±	9550	1278	2127	543.9	1.3	1.0	545.2	544.9

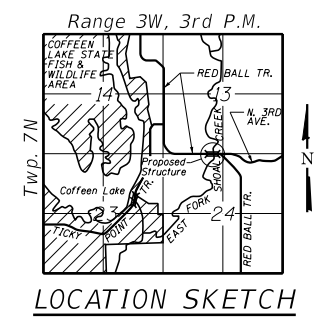
DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
State Q100	539.9	527.3	524.3	539.9	5
Q50	539.9	526.1	526.7	539.9	
Design	539.9	526.1	526.7	539.9	
Check	539.9	526.1	524.3	539.9	



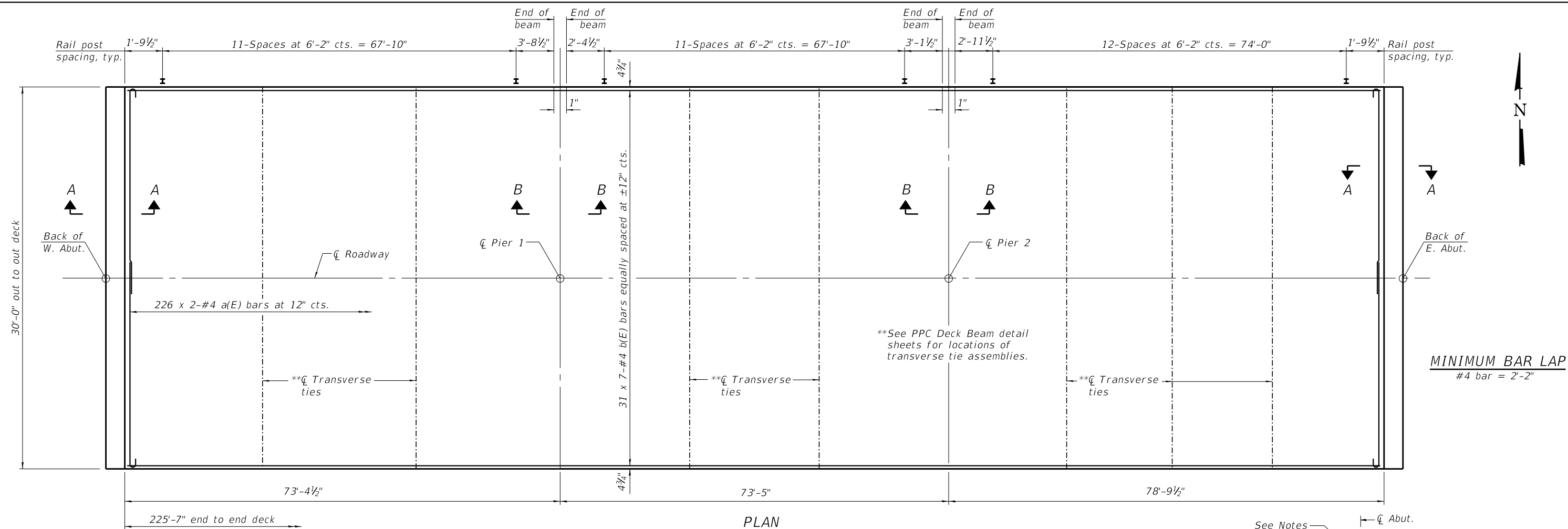
Jeremy Buening, P.E., S.E. Date 3/7/2022
 License Expires 11/30/22

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

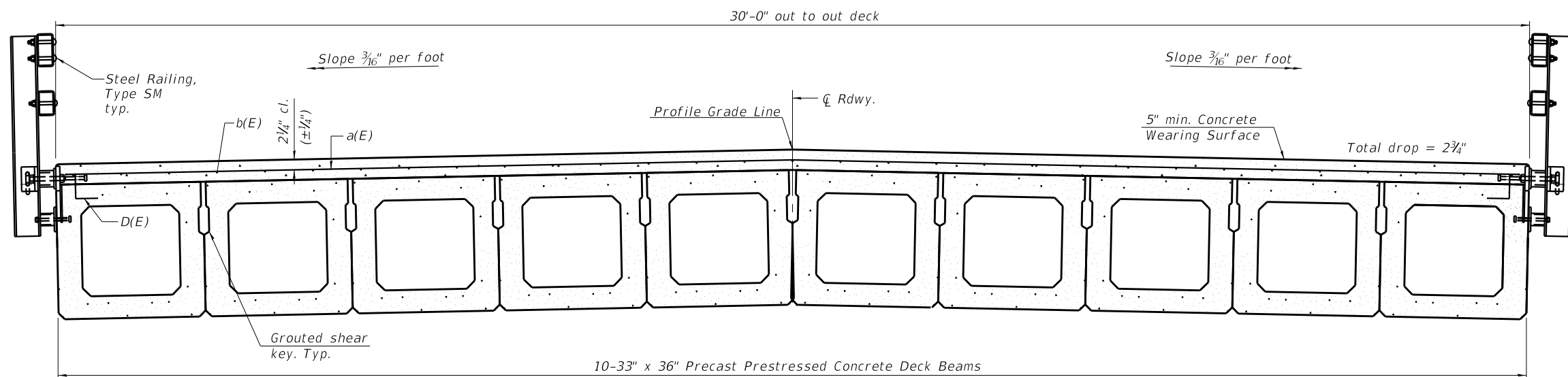


GENERAL PLAN & ELEVATION
RED BALL TRAIL OVER
EAST FORK SHOAL CREEK
F.A.S. 1746 - SEC. 15-00138-00-BR
MONTGOMERY COUNTY
STATION 17+85.21
STRUCTURE NO. 068-3368

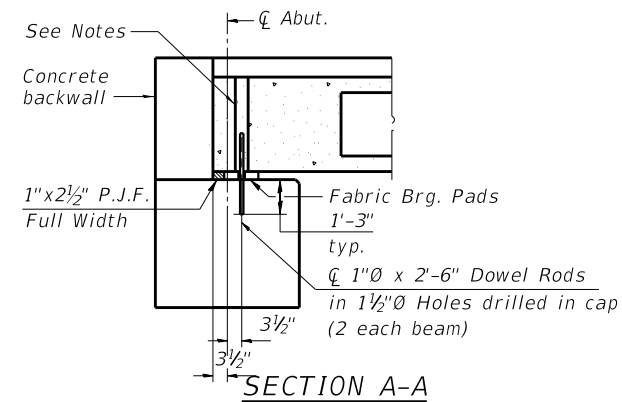
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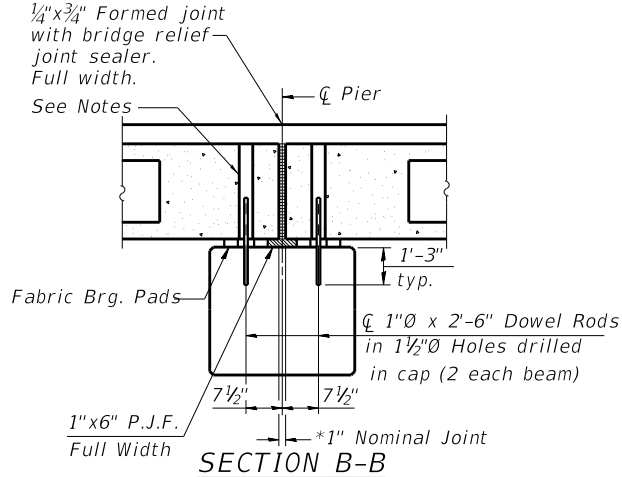
PLAN



CROSS SECTION
(Looking East)



SECTION A-A



SECTION B-B

Notes:
 See sheet 3 of 14 for Superstructure Details and Bill of Material.
 Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
 All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
 See sheets 5 and 7 of 14 for fabric bearing pad details.
 Holes for dowel rods shall be grouted per Article 504.06 of the Standard Specifications.

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

MODEL: 0683386-00000-002 FILE NAME: I:\Contractors and Consultants\Prairie_Engineers\8141_White Town Bridge_Structural_Sub\CADD\CADD_Structural\0683386-000000 structure.dgn

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

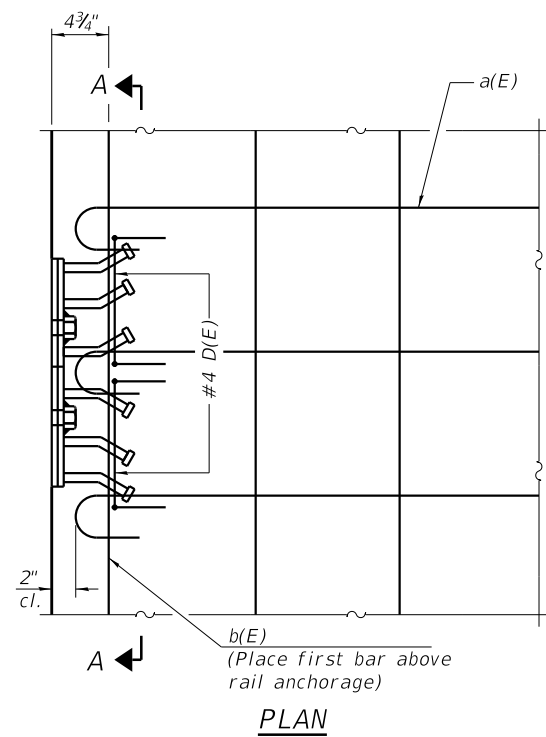
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PLOT SCALE =	CHECKED - JMB	REVISED -
PLOT DATE = 3/7/2022	DRAWN - RNH	REVISED -
	CHECKED - JMB	REVISED -

STATE OF ILLINOIS
 MONTGOMERY COUNTY HIGHWAY DEPARTMENT

SUPERSTRUCTURE
STRUCTURE NO. 068-3368
 SHEET 2 OF 14 SHEETS

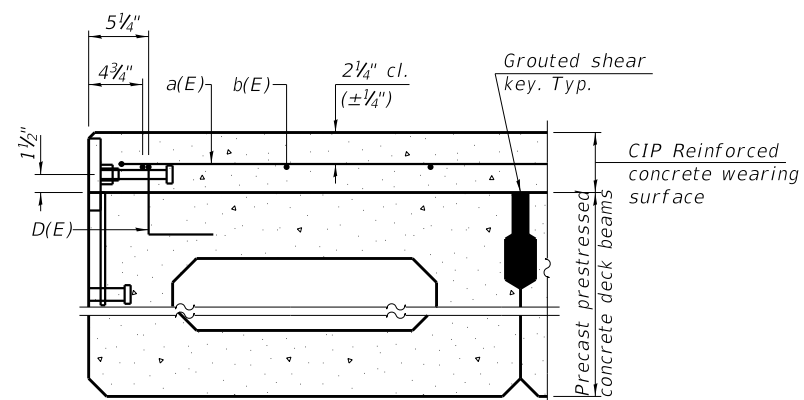
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	23
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

MODEL: 0683386-00000-003
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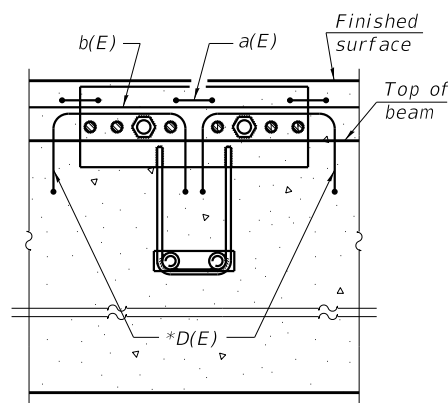


PLAN

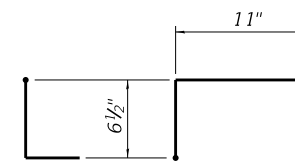
Notes:
 Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

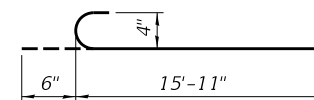


SECTION A-A

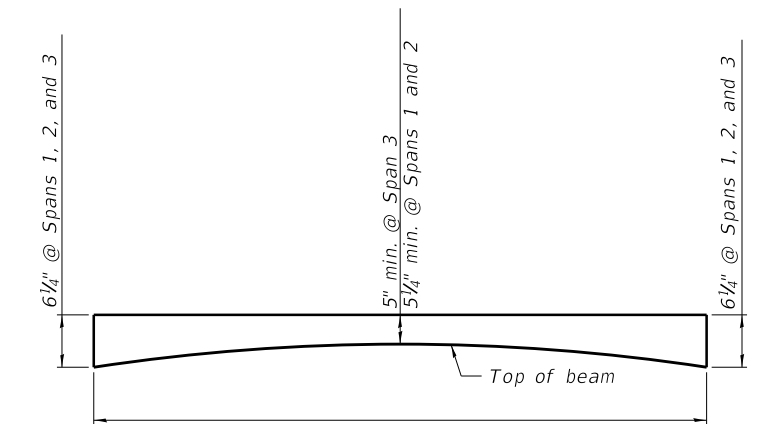


BAR D(E)

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



BAR a(E)

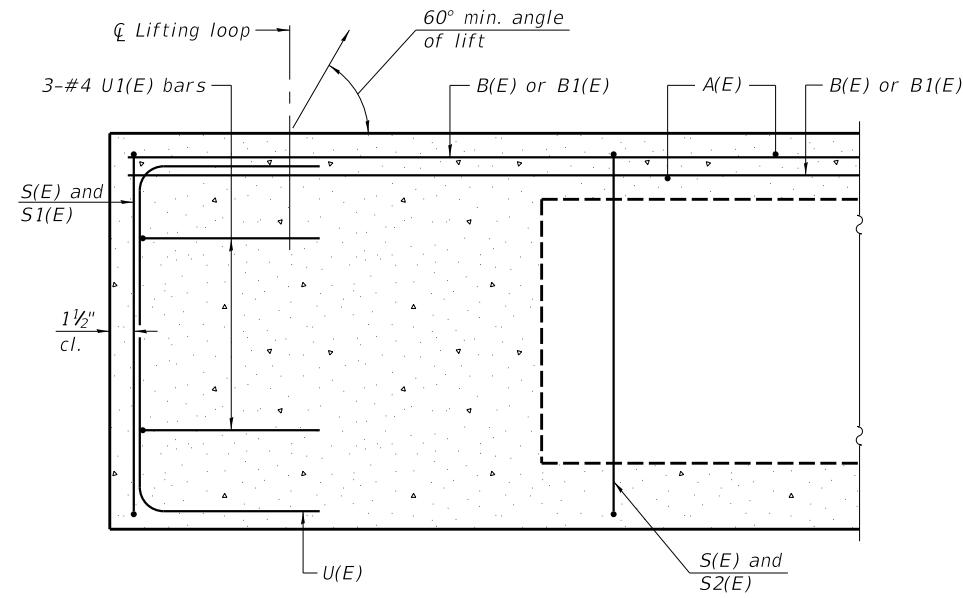


ANTICIPATED CONCRETE WEARING SURFACE PROFILE
 (For information only)

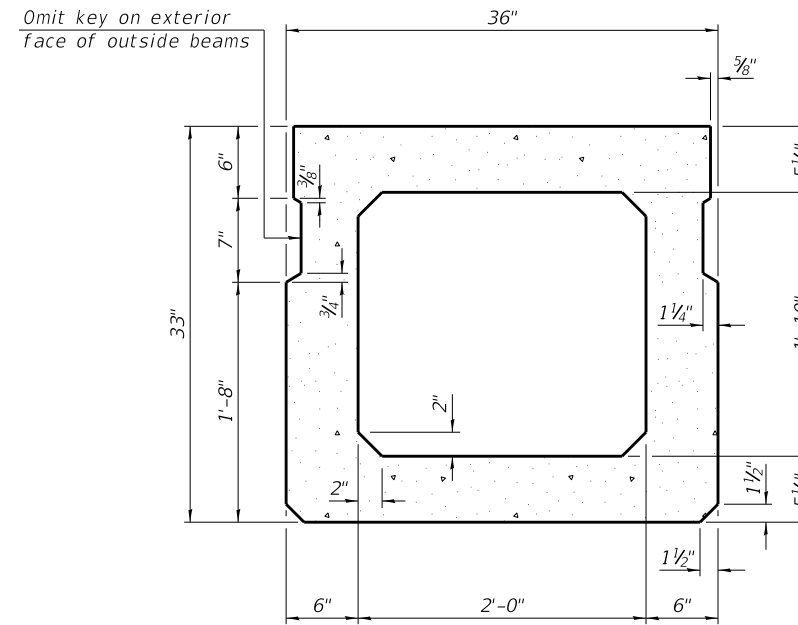
**SUPERSTRUCTURE
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	452	#4	16'-5"	
b(E)	217	#4	34'-1"	
Reinforcement Bars, Epoxy Coated			Pound	9900
Concrete Wearing Surface, 5"			Sq. Yd.	752.0
Bridge Deck Grooving			Sq. Yd.	702
Protective Coat			Sq. Yd.	776

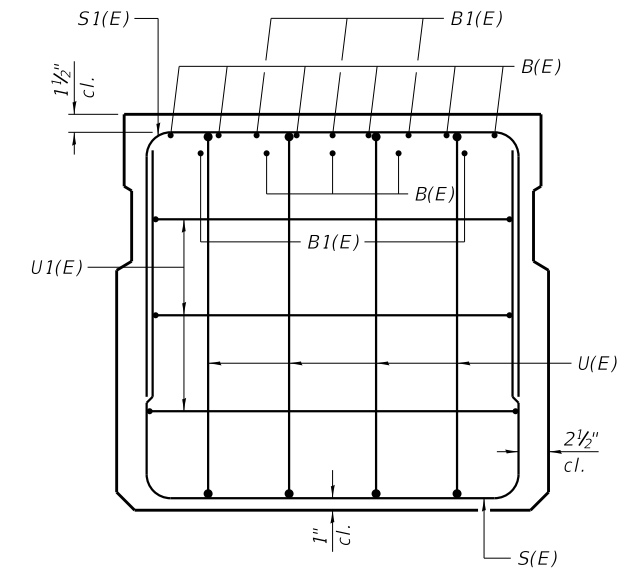
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.
 See Sheet 2 of 14 for bar and rail anchorage locations.



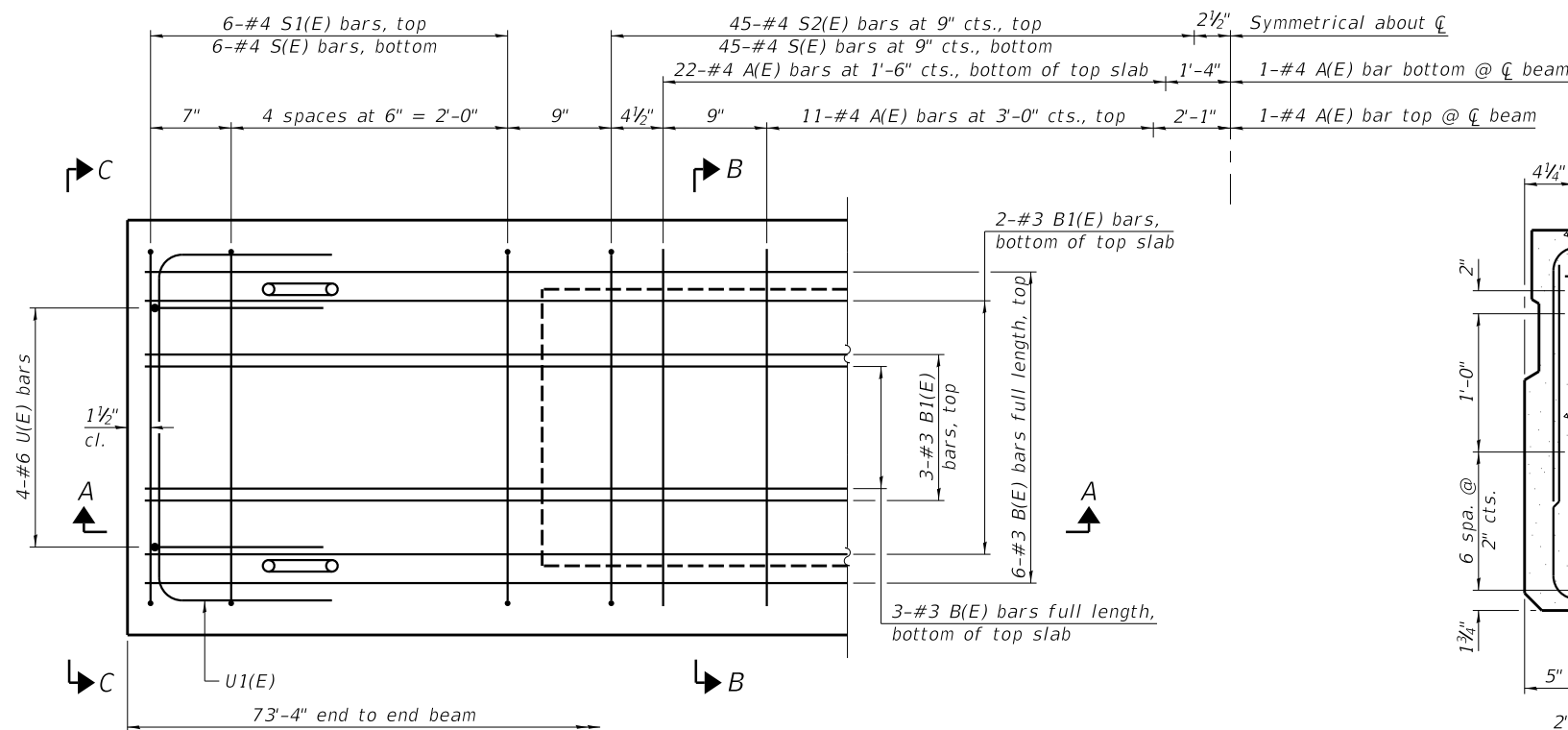
SECTION A-A



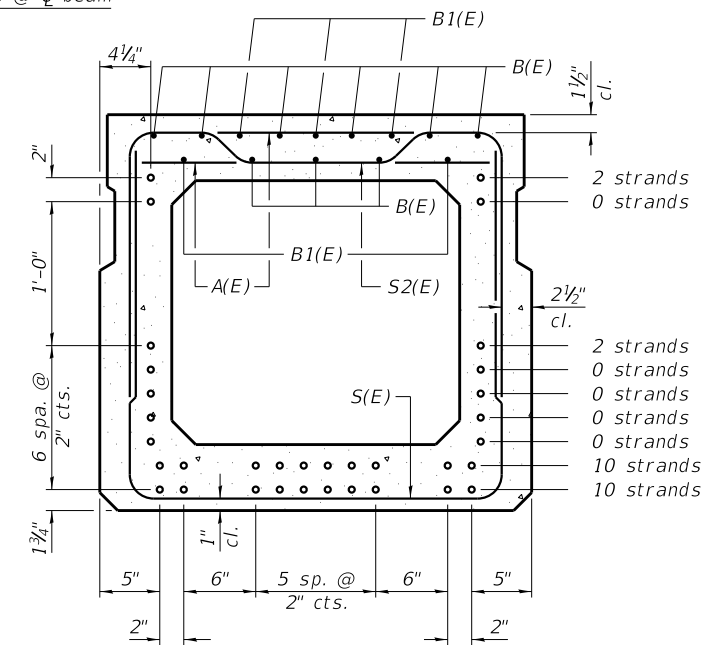
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	68	#4	2'-7"	—
B(E)	18	#3	37'-4"	—
B1(E)	10	#3	10'-0"	—
S(E)	102	#4	7'-8"	U
S1(E)	12	#4	6'-5"	U
S2(E)	90	#4	6'-8"	U
U(E)	8	#6	5'-0"	C
U1(E)	6	#4	5'-0"	C

Note:
See sheet 5 of 14 for additional details and Bill of Material.

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP
#3 bar = 1'-6"

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PD-3336-0

1-1-2020

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

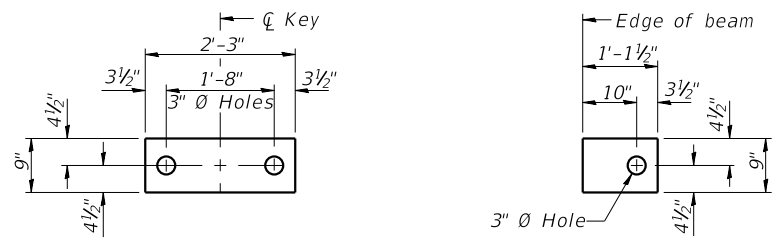
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PLOT DATE = 3/7/2022	DRAWN - RNH	REVISED -
	CHECKED - JMB	REVISED -

STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

33" x 36" PPC DECK BEAM (SPANS 1 & 2)
STRUCTURE NO. 068-3368

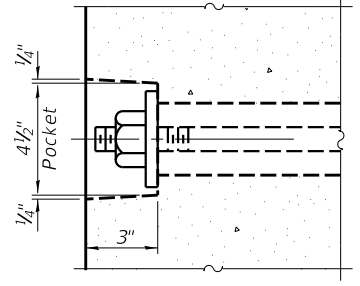
SHEET 4 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	

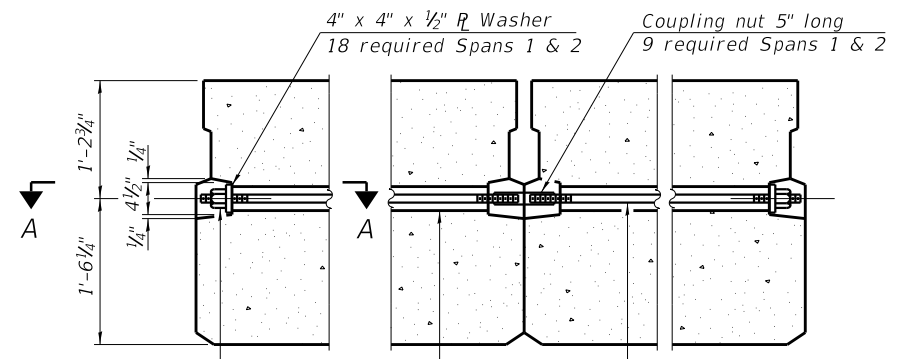


FABRIC BEARING PAD (Interior)
FABRIC BEARING PAD (Exterior)
FIXED

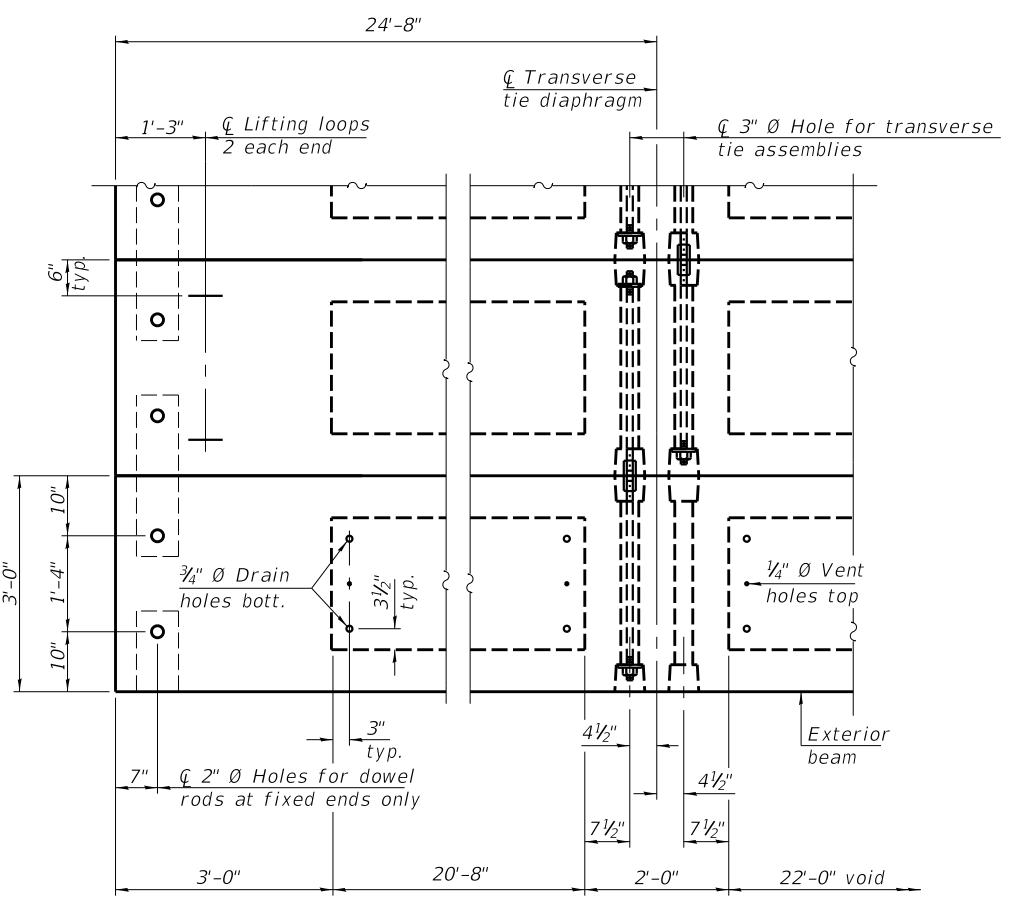
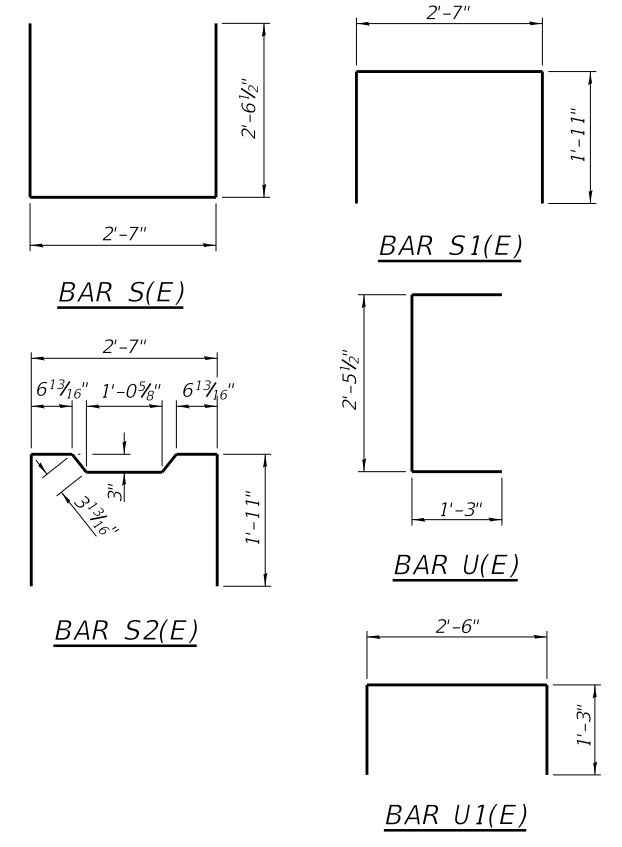
Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

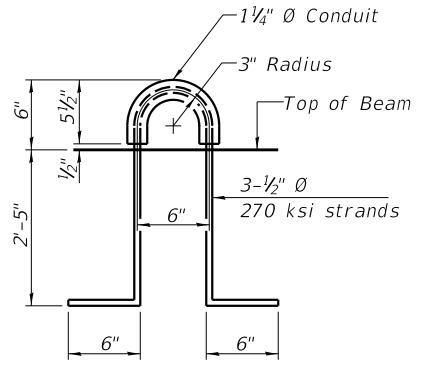


TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

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

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	4400
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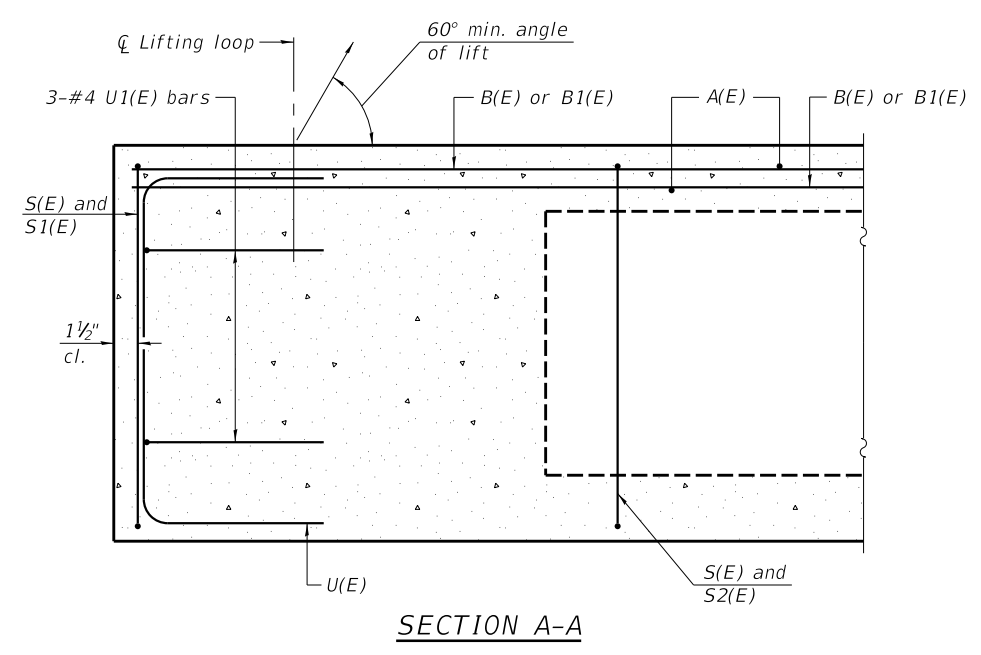
STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

33" x 36" PPC DECK BEAM DETAILS (SPANS 1 & 2)
STRUCTURE NO. 068-3368

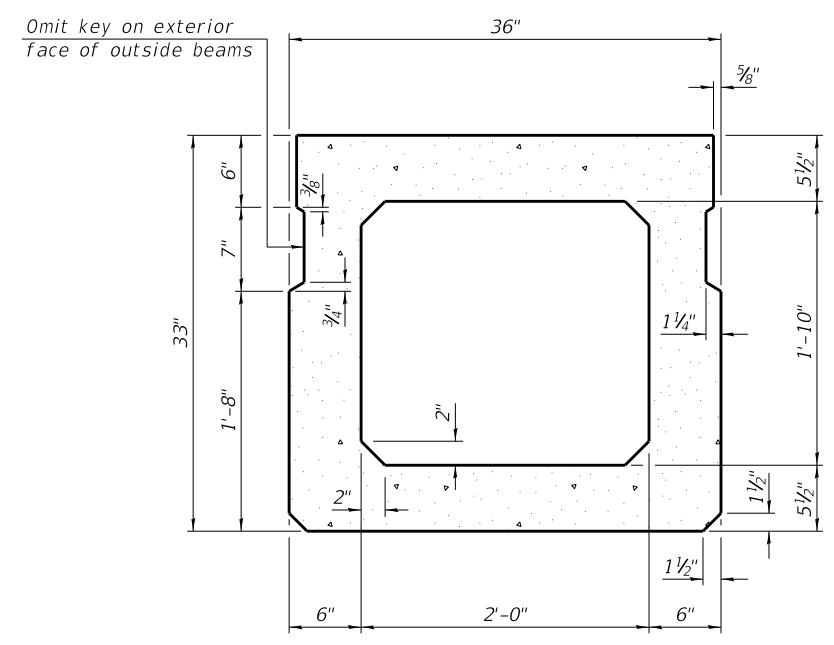
SHEET 5 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	

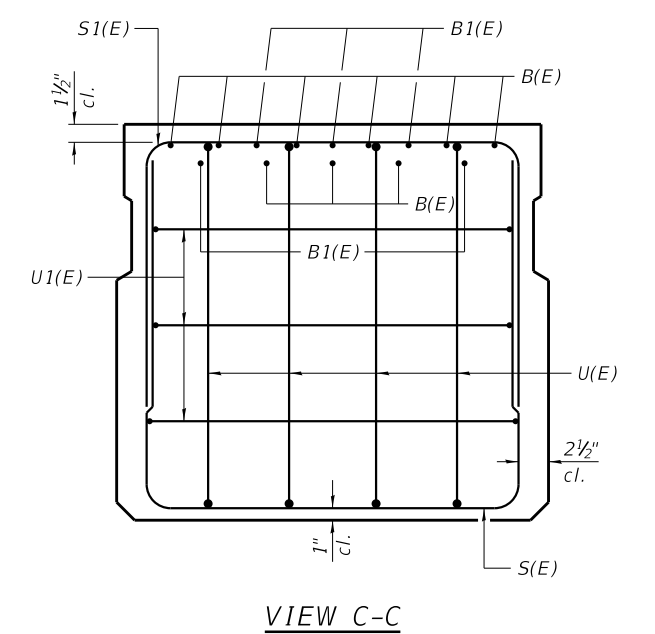
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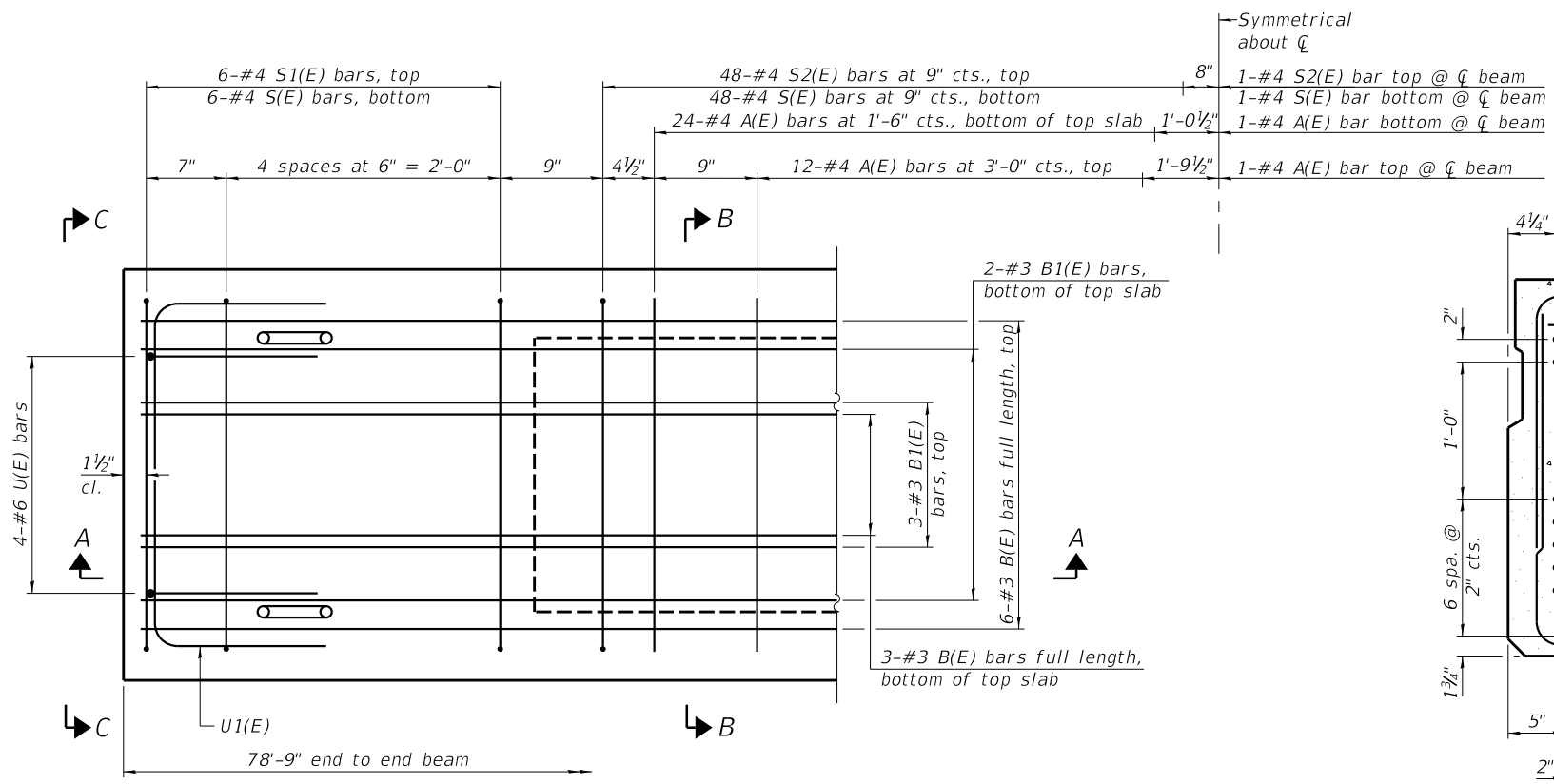
SECTION A-A



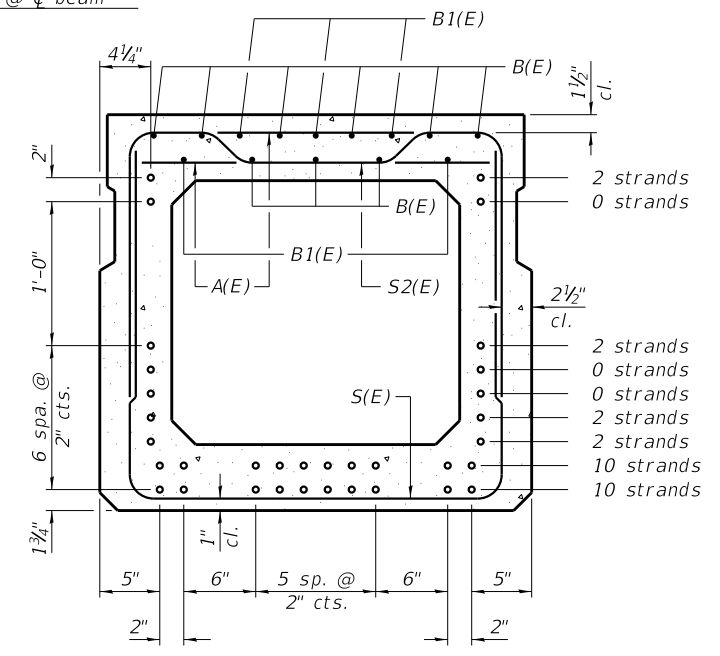
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	74	#4	2'-7"	—
B(E)	18	#3	40'-0"	—
B1(E)	10	#3	10'-0"	—
S(E)	109	#4	7'-8"	U
S1(E)	12	#4	6'-5"	U
S2(E)	97	#4	6'-8"	U
U(E)	8	#6	5'-0"	C
U1(E)	6	#4	5'-0"	C

Note:
See sheet 7 of 14 for additional details and Bill of Material.

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP
#3 bar = 1'-6"

PD-3336-0

1-1-2020



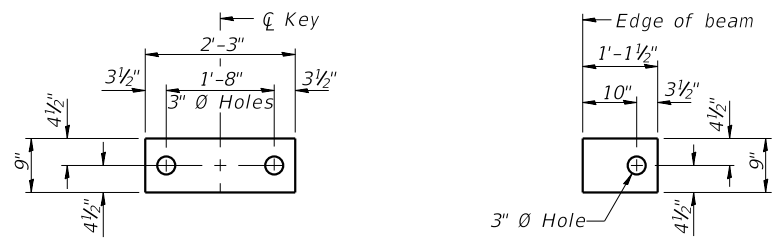
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	CHECKED - JMB	REVISED -

STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

33" x 36" PPC DECK BEAM (SPAN 3)
STRUCTURE NO. 068-3368

SHEET 6 OF 14 SHEETS

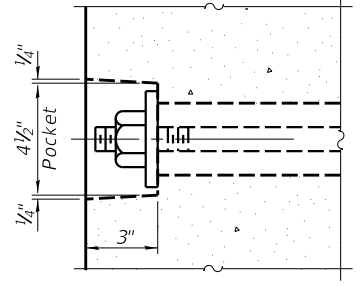
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1746	15-00138-00-BR	MONTGOMERY	50	27
CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	



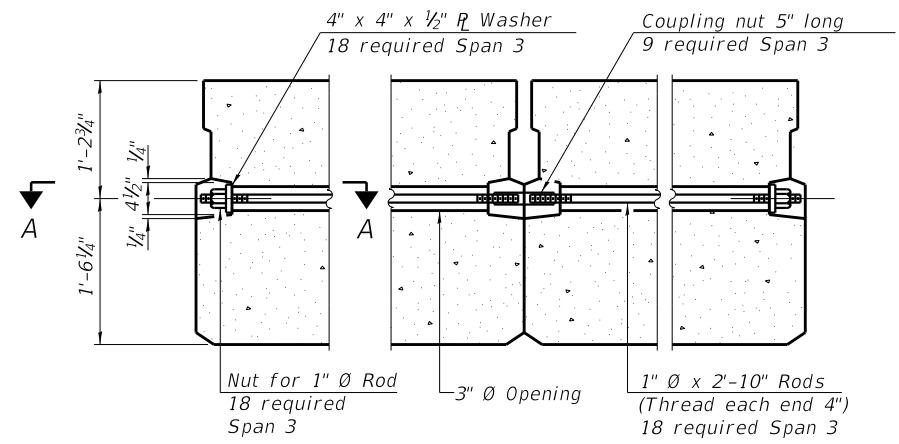
FABRIC BEARING PAD
(Interior) **FABRIC BEARING PAD**
(Exterior)

FIXED

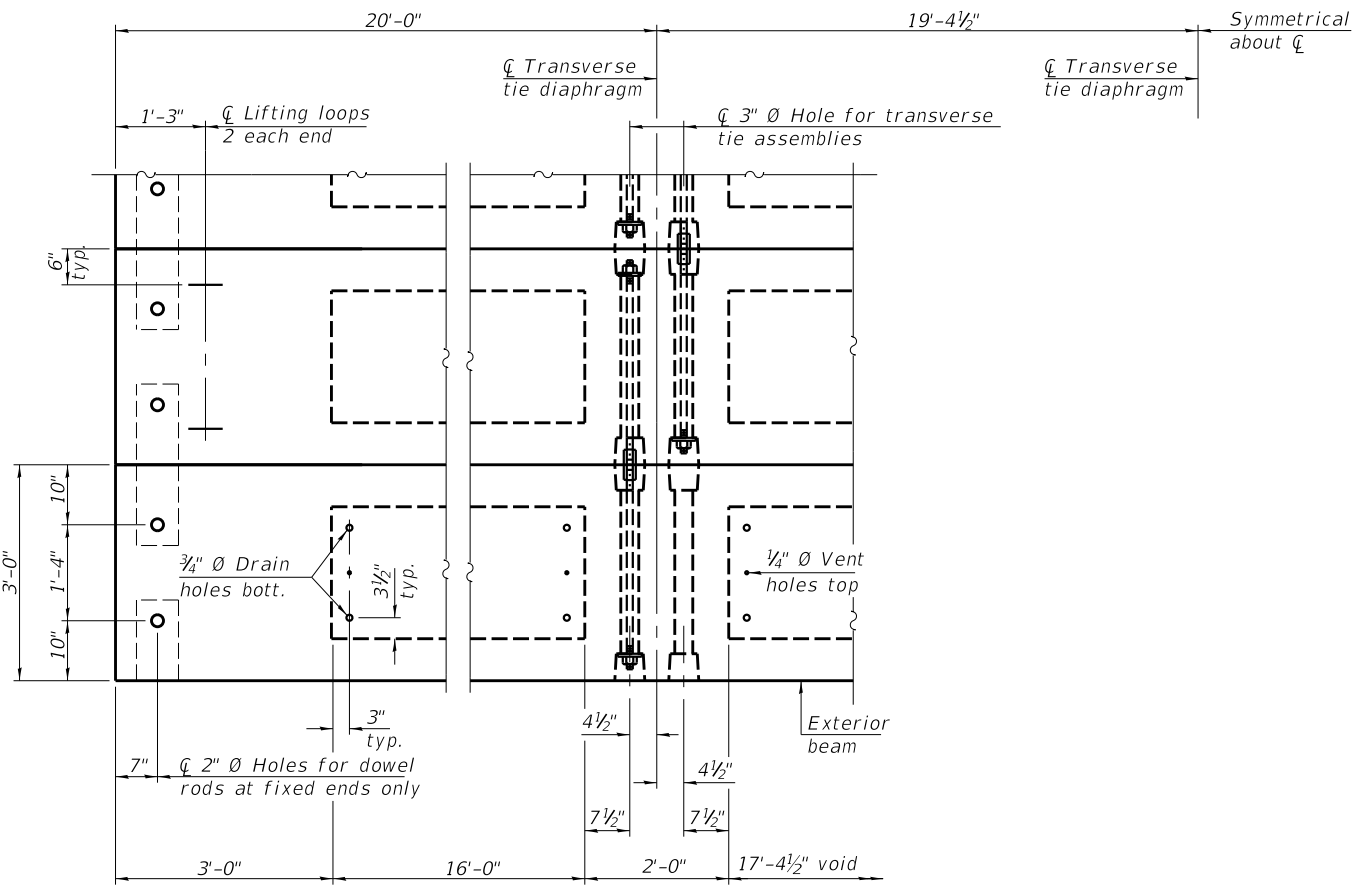
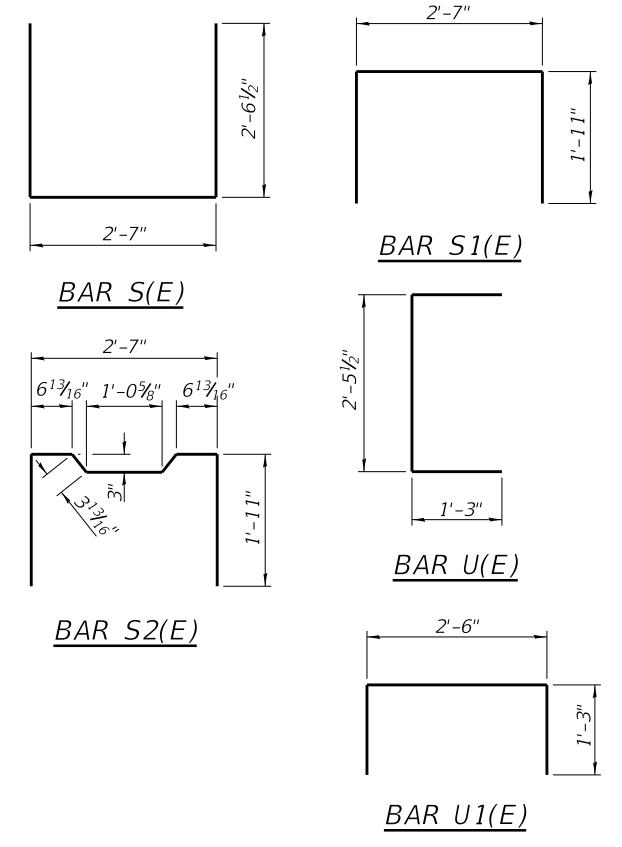
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

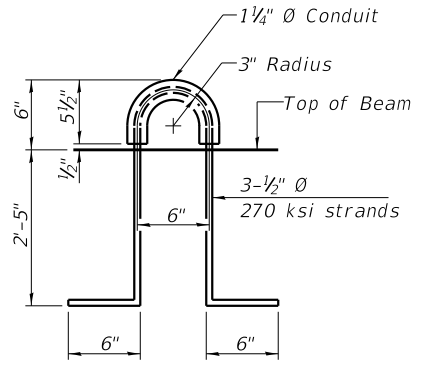


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

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



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	2363
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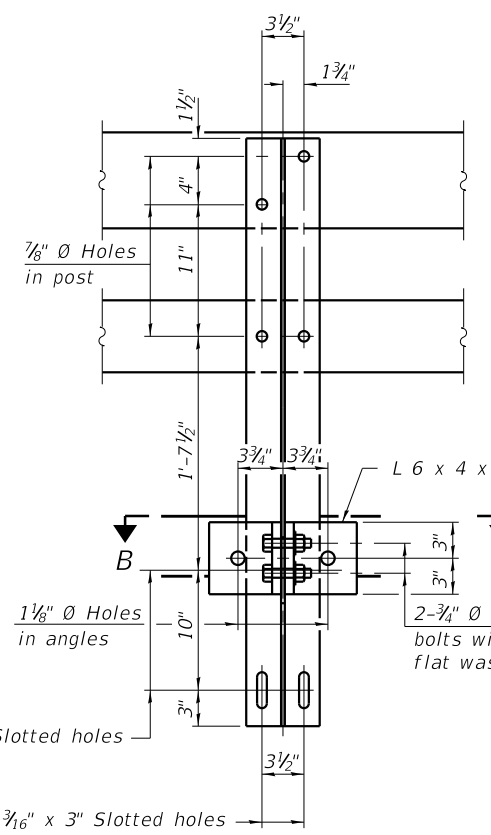
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	CHECKED - JMB	REvised -

STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

33" x 36" PPC DECK BEAM DETAILS (SPAN 3)
STRUCTURE NO. 068-3368

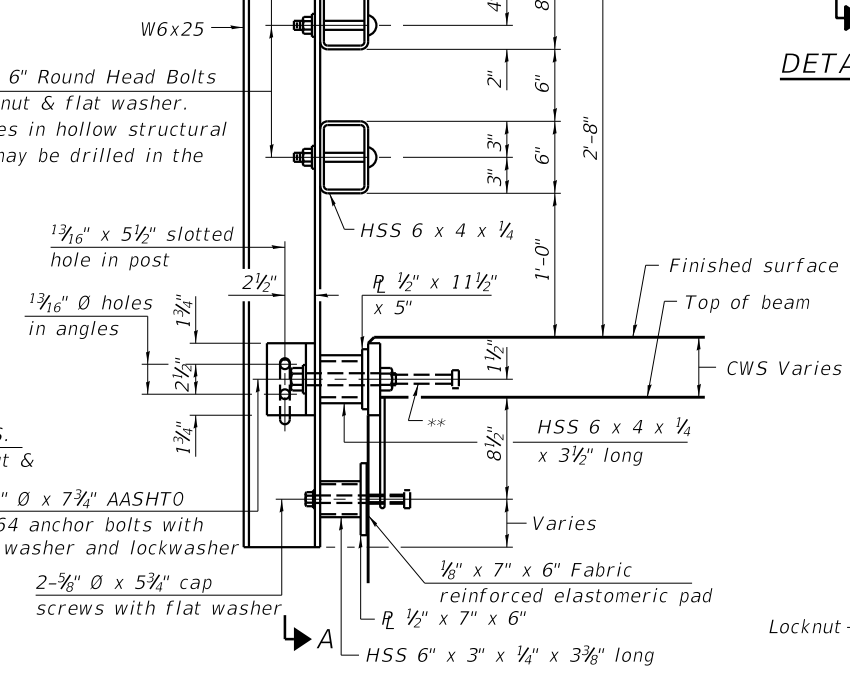
SHEET 7 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

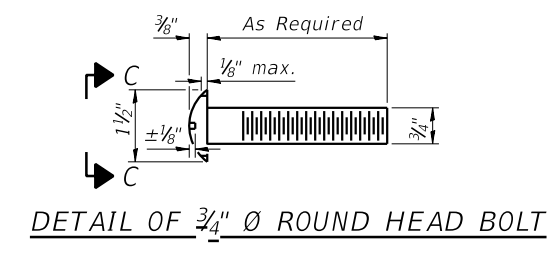


SECTION A-A

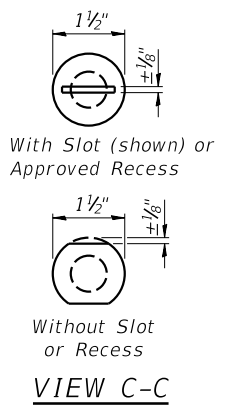
4-3/4" Ø x 6" Round Head Bolts with locknut & flat washer.
7/8" Ø holes in hollow structural section may be drilled in the field.



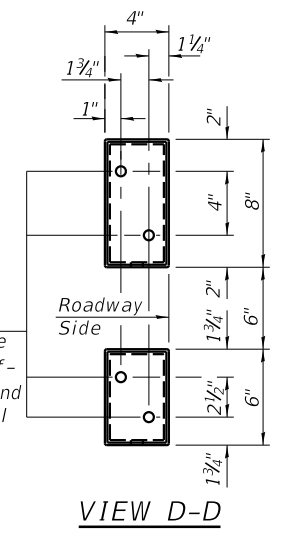
SECTION AT RAIL POST



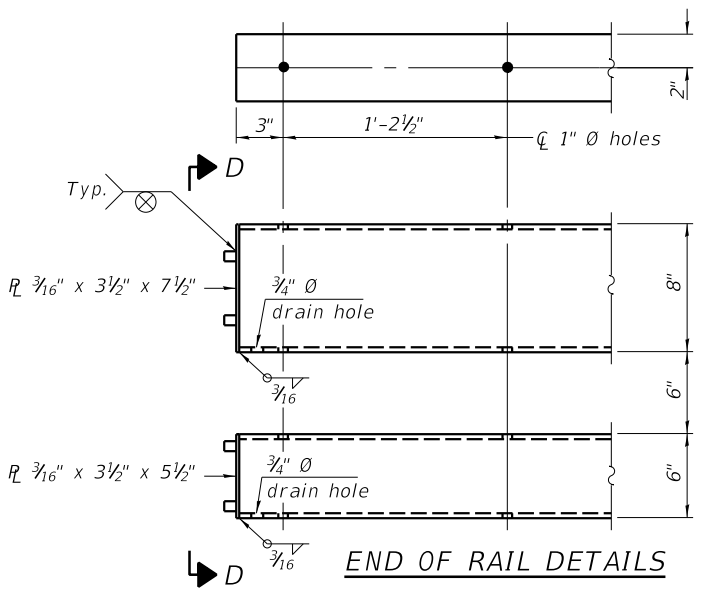
DETAIL OF 3/4" Ø ROUND HEAD BOLT



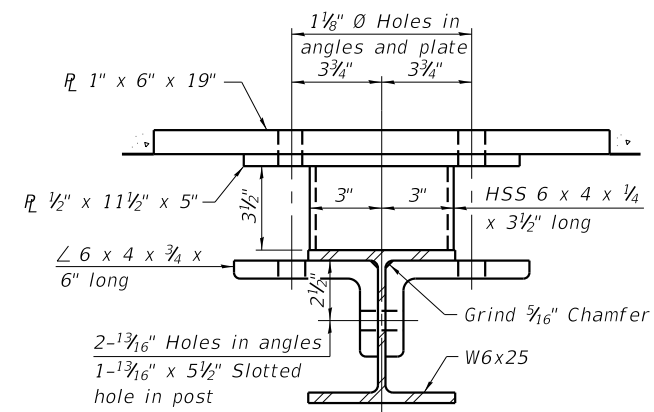
VIEW C-C



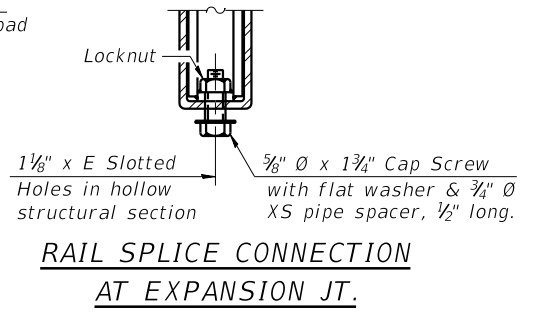
VIEW D-D



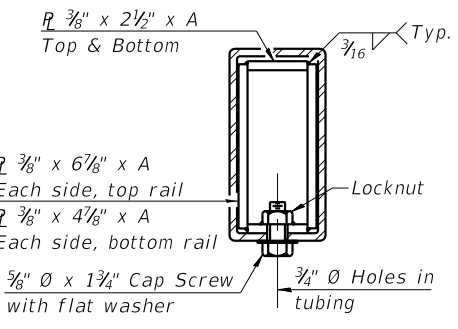
END OF RAIL DETAILS



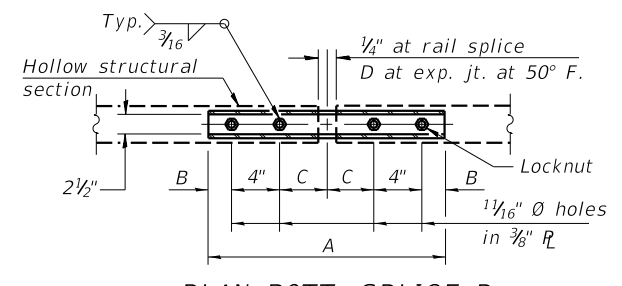
SECTION B-B



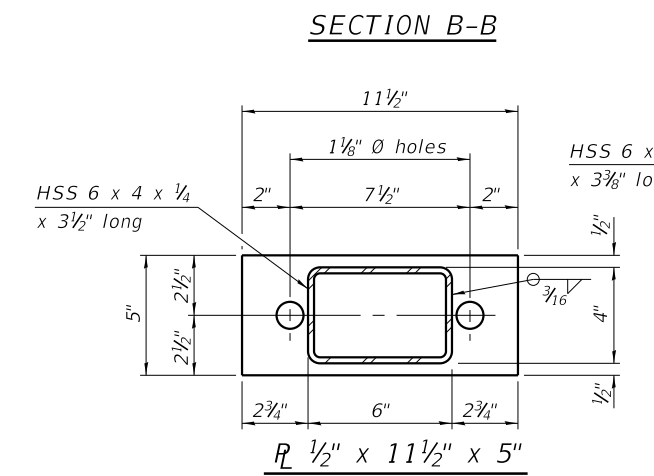
RAIL SPLICE CONNECTION AT EXPANSION JT.



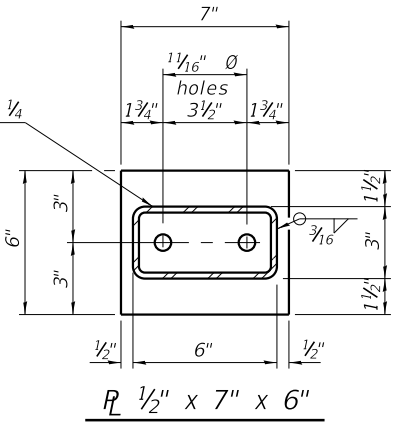
SECTION AT RAIL SPLICE



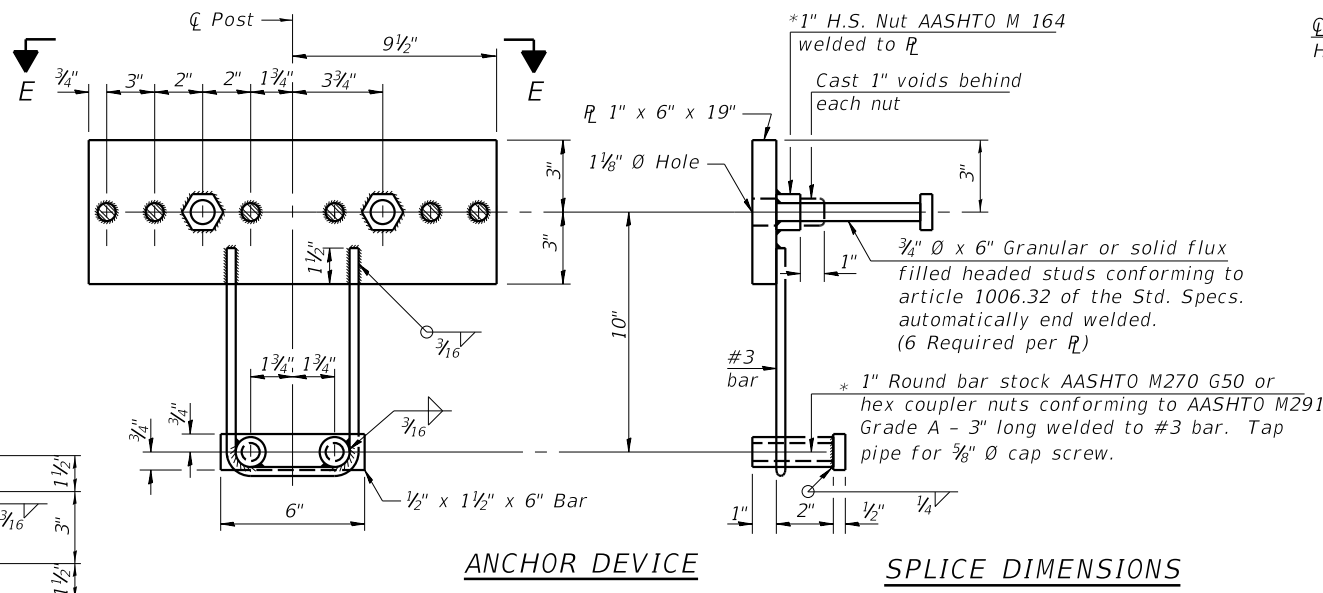
PLAN-BOTT. SPLICE R TYPICAL



R 1/2" x 11 1/2" x 5"



R 1/2" x 7" x 6"



ANCHOR DEVICE

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

SPLICE DIMENSIONS

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

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

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	452

R-34CWS

8-11-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME	DESIGNED	REVISIONS
= rking	- CMF	-
	- JMB	-
	- RNH	-
	- JMB	-

STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

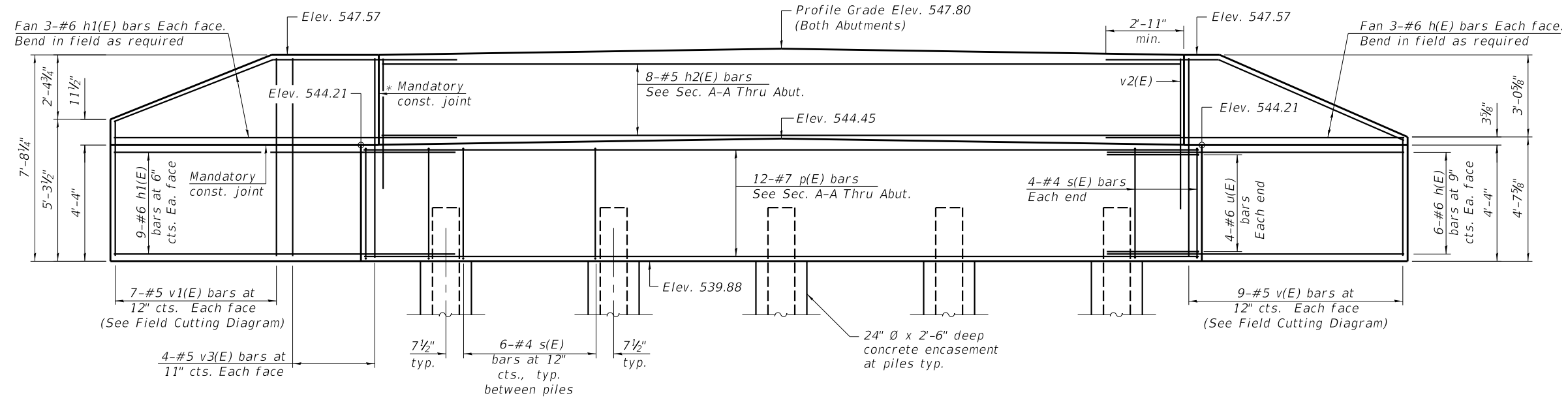
STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
STRUCTURE NO. 068-3368

SHEET 8 OF 14 SHEETS

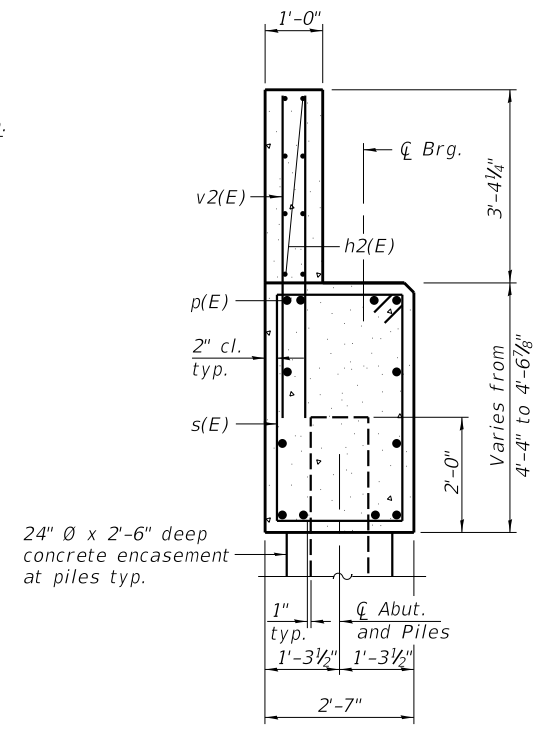
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	29
				CONTRACT NO. 93778

MODEL: 0683386-00000-008
FILE NAME: I:\Contractors and Consultants\Prairie_Engineers\8141_White Town Bridge_Structural_Sub\CADD\CADD_Structural\0683386-000000_structure.dgn

* Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION



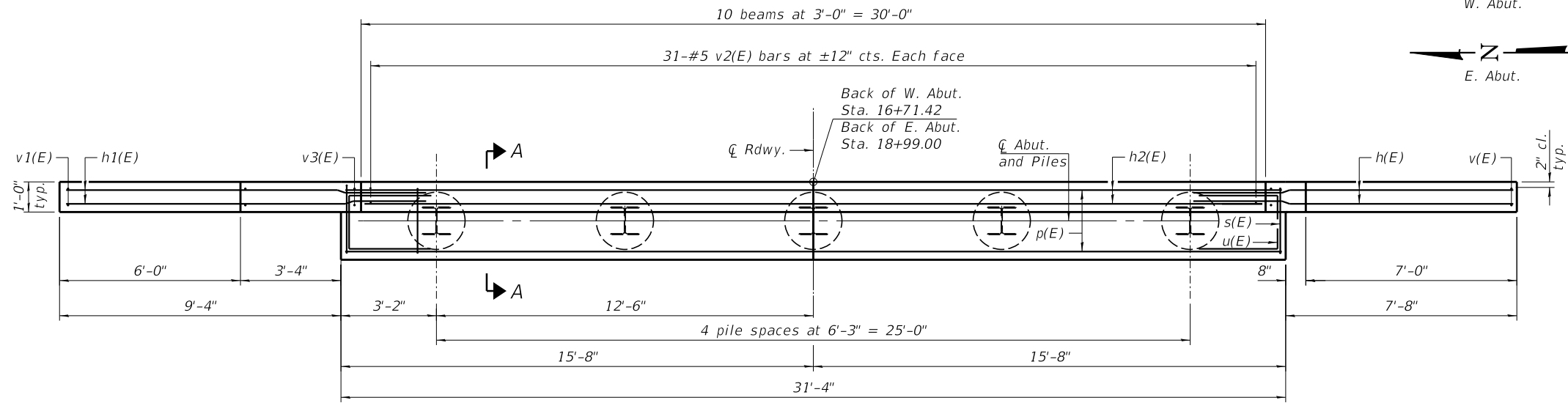
SECTION A-A

24" Ø x 2'-6" deep concrete encasement at piles typ.

BILL OF MATERIAL FOR 2 ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	36	#6	11'-9"	—
h1(E)	48	#6	13'-3"	—
h2(E)	16	#5	29'-8"	—
p(E)	24	#7	31'-0"	—
s(E)	64	#4	13'-3"	□
u(E)	16	#6	6'-8"	⊔
v(E)	18	#5	11'-10"	—
v1(E)	14	#5	12'-5"	—
v2(E)	124	#5	5'-8"	—
v3(E)	16	#5	7'-4"	—
Structure Excavation			Cu. Yd.	50
Concrete Structures			Cu. Yd.	42.8
Reinforcement Bars, Epoxy Coated			Pound	5590
Furnishing Steel Piles HP 12x53			Foot	280
Driving Piles			Foot	280
Test Pile Steel HP 12x53			Each	2
Concrete Encasement			Cu. Yd.	2.9
Protective Coat			Sq. Yd.	11

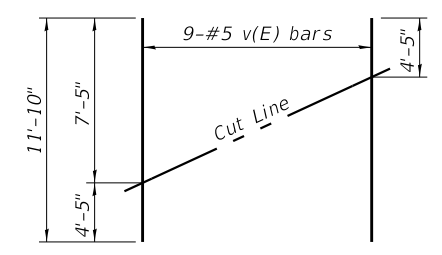
Notes:
 For details of piles, see sheet 12 of 14.
 Cast backwall after beams and concrete wearing surface, if applicable, have been erected.
 Drive one (1) test pile at each of the abutments in a production location. Coordinate locations of test piles with the ENGINEER.
 See sheet 2 of 14 for additional details of superstructure connection to abutment cap.



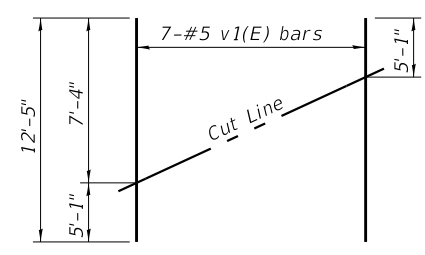
PLAN

PILE DATA

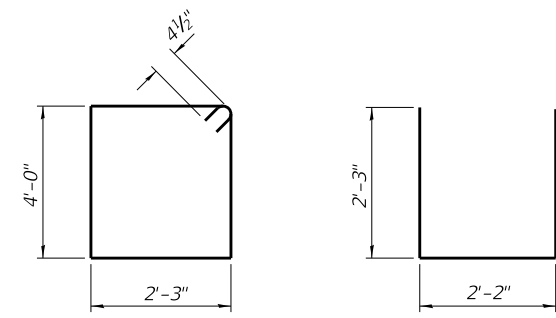
Type: Steel HP 12x53
 Nominal Required Bearing: 418 kips
 Factored Resistance Available: 230 kips
 Est. Length: 35 ft
 No. Production Piles: 8
 No. Test Piles: 2



FIELD CUTTING DIAGRAM
 Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face of wingwalls for the East and West Abutments.



FIELD CUTTING DIAGRAM
 Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite face of wingwalls for the East and West Abutments.



BAR s(E)

BAR u(E)

MODEL: 0683386-00000-009 FILE NAME: I:\Contractors and Consultants\Prairie_Engineers\8141_White Town Bridge Structural_Sub\CADD\CADD_Structural\0683386-000000_structure.dgn

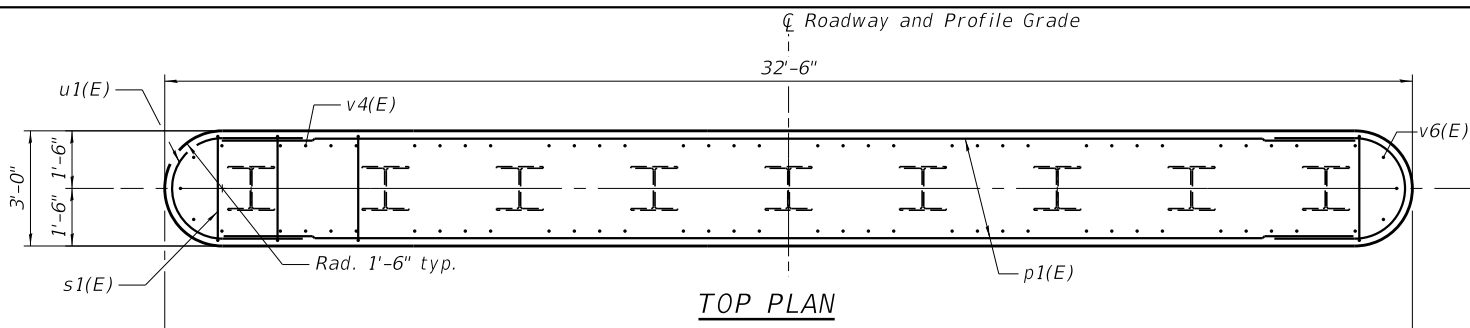


USER NAME = rking	DESIGNED - CMF	REVISED -
PLOT SCALE =	CHECKED - JMB	REVISED -
PLOT DATE = 3/7/2022	DRAWN - RNH	REVISED -
	CHECKED - JMB	REVISED -

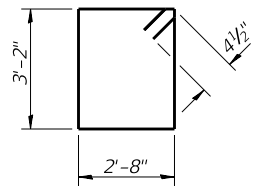
STATE OF ILLINOIS
 MONTGOMERY COUNTY HIGHWAY DEPARTMENT

ABUTMENTS
 STRUCTURE NO. 068-3368
 SHEET 9 OF 14 SHEETS

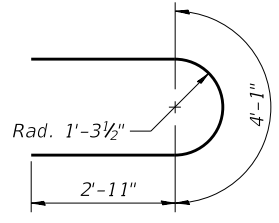
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	30
CONTRACT NO. 93778			ILLINOIS FED. AID PROJECT	



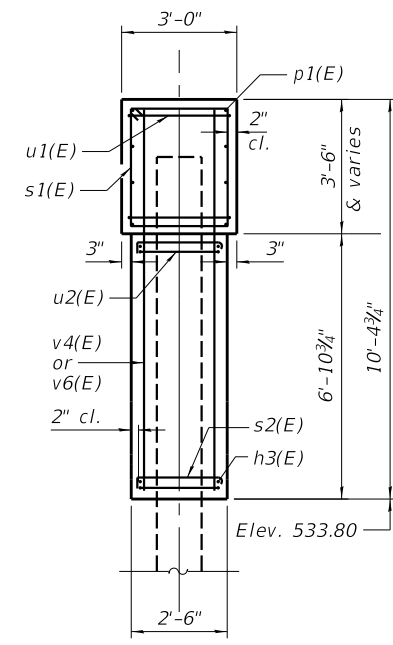
TOP PLAN



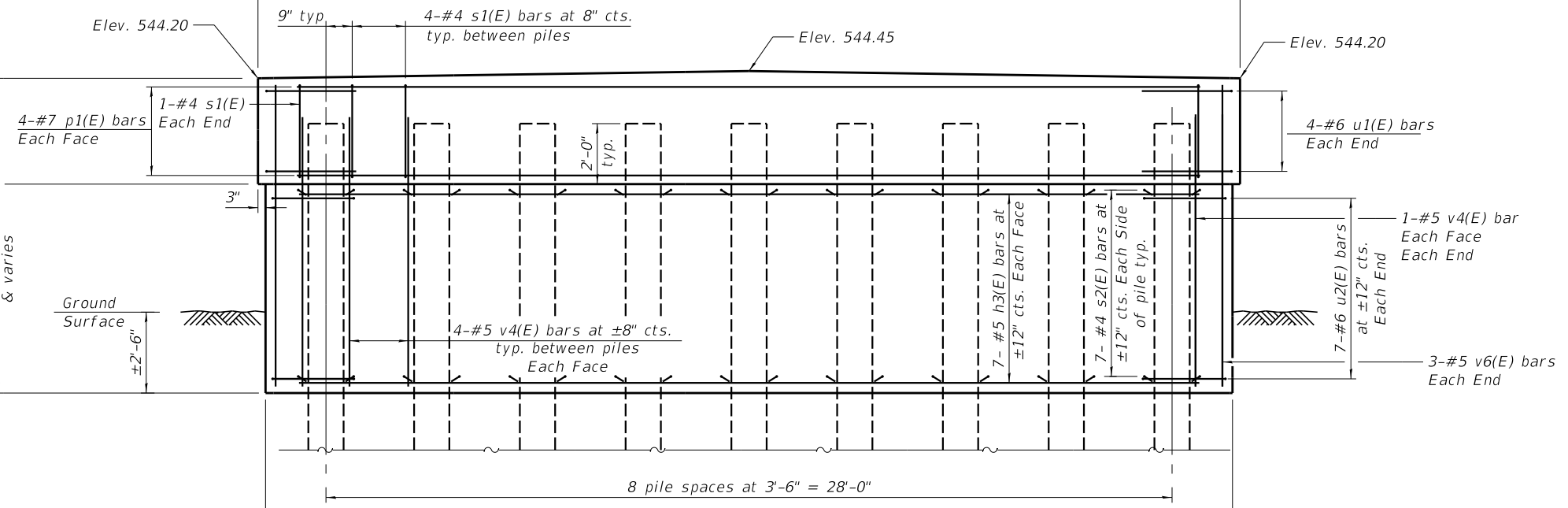
BAR s1(E)



BAR u1(E)



END VIEW

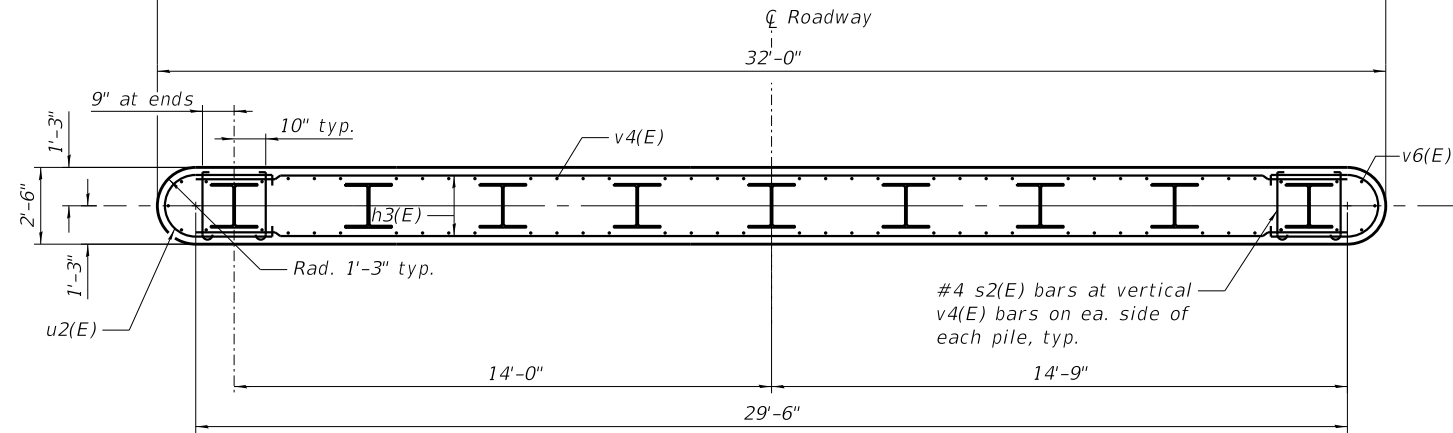


ELEVATION
(Looking East)

BILL OF MATERIAL
PIER 1

Bar	No.	Size	Length	Shape
h3(E)	14	#5	29'-6"	—
p1(E)	8	#7	29'-8"	—
s1(E)	34	#4	12'-5"	□
s2(E)	126	#4	3'-2"	J
u1(E)	8	#6	9'-11"	U
u2(E)	14	#6	8'-3"	U
v4(E)	68	#5	9'-2"	—
v6(E)	6	#5	10'-0"	—
Structure Excavation	Cu. Yd.	96		
Concrete Structures	Cu. Yd.	32.9		
Reinforcement Bars, Epoxy Coated	Pound	2470		
Furnishing Steel Piles HP 14x73	Foot	288		
Driving Piles	Foot	288		
Test Pile Steel HP 14x73	Each	1		

PILE DATA
 Type: Steel HP 14x73
 Nominal Required Bearing: 382 kips
 Factored Resistance Available: 210 kips
 Est. Length: 36 ft
 No. Production Piles: 8
 No. Test Piles: 1
 Drive piles to achieve the Nominal Required Bearing value shown, with a tip elevation at or below Elev. 515.0'.



SECTION

Notes:
 For details of piles, see sheet 12 of 14.
 Drive one (1) test pile at Pier 1 in a production location. Coordinate locations of test piles with the Engineer.
 See sheet 11 of 14 for details of Bars u2(E) and s2(E).

MODEL: 0683386-00000-010
 FILE NAME: I:\Contractors and Consultants\Prairie_Engineers\8141_White Town Bridge_Structural_Sub\CADD\CADD_Structural\0683386-000000_structure.dgn



USER NAME = rking	DESIGNED - CMF	REVISED -
PLOT SCALE =	CHECKED - JMB	REVISED -
PLOT DATE = 3/7/2022	DRAWN - RNH	REVISED -
	CHECKED - JMB	REVISED -

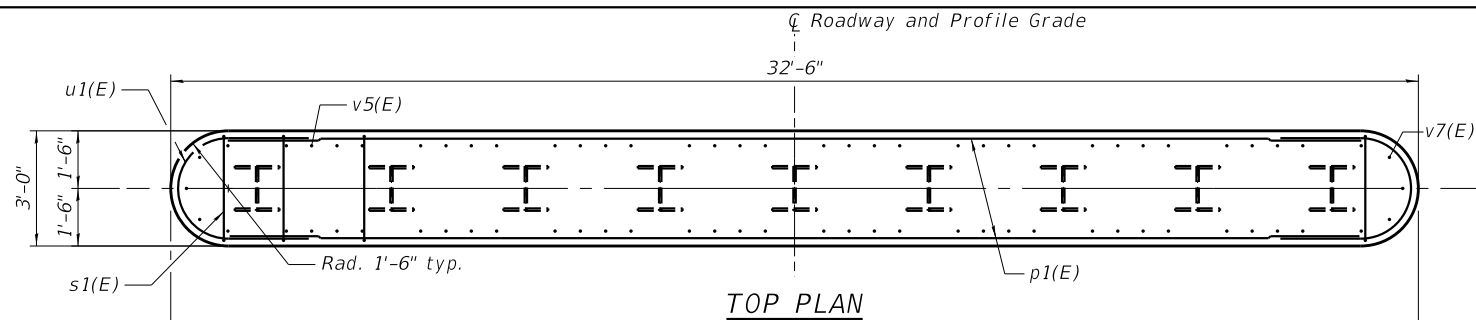
STATE OF ILLINOIS
 MONTGOMERY COUNTY HIGHWAY DEPARTMENT

PIER 1
 STRUCTURE NO. 068-3368

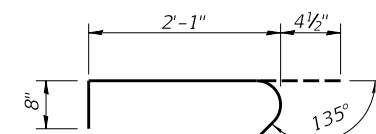
SHEET 10 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93778	

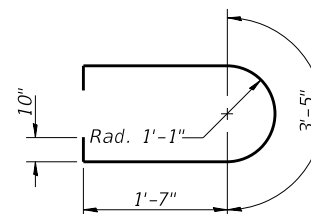
MODEL: 0683386-00000-011
 FILE NAME: I:\Contractors and Consultants\Prairie_Engineers\8141_White Town Bridge_Structural_Sub\CADD\CADD_Structural\0683386-000000 structure.dgn



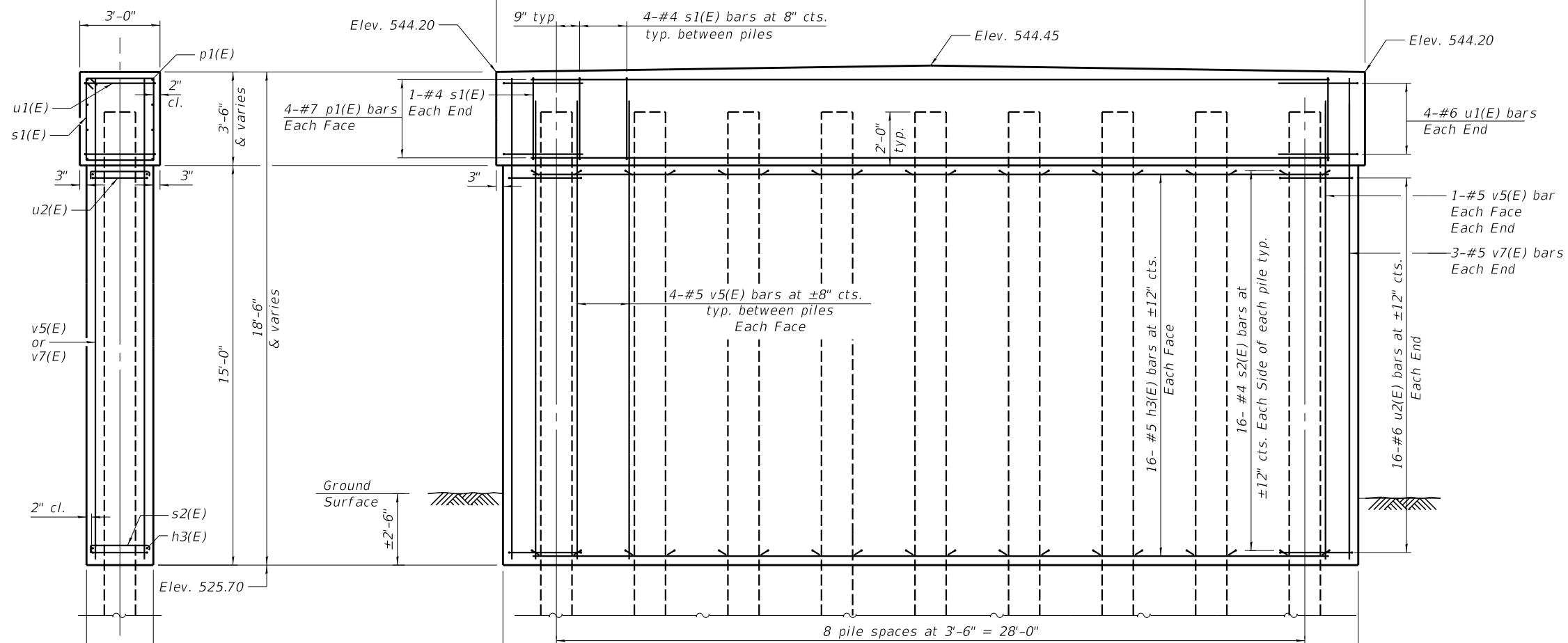
TOP PLAN



BAR s2(E)



BAR u2(E)



ELEVATION
(Looking East)

BILL OF MATERIAL
PIER 2

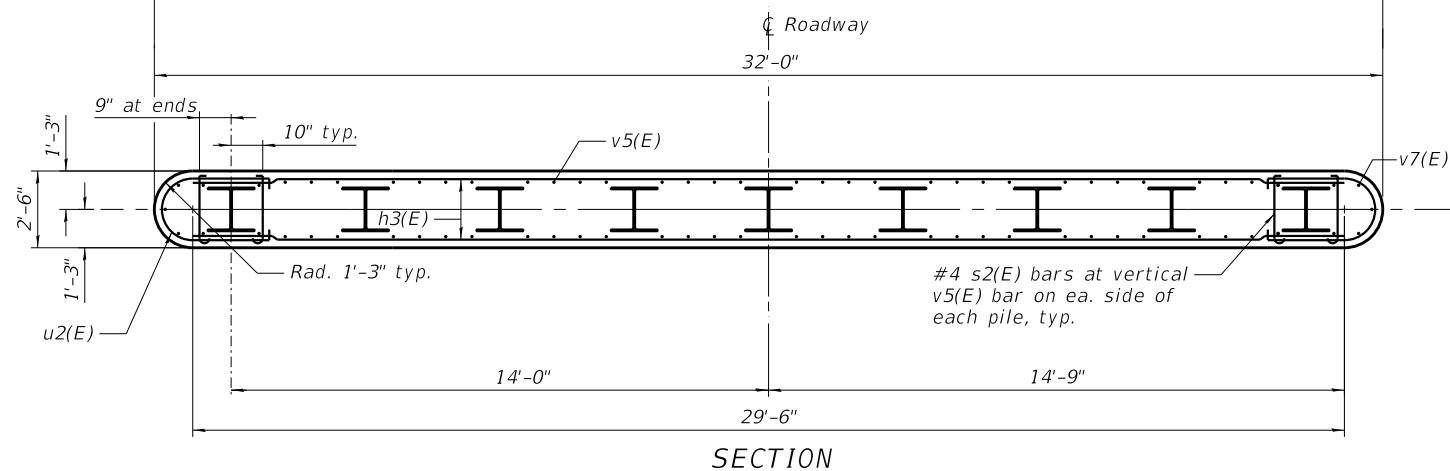
Bar	No.	Size	Length	Shape	
h3(E)	32	#5	29'-6"	—	
p1(E)	8	#7	29'-8"	—	
s1(E)	34	#4	12'-5"	⊠	
s2(E)	288	#4	3'-2"	⌋	
u1(E)	8	#6	9'-11"	U	
u2(E)	32	#6	8'-3"	U	
v5(E)	68	#5	17'-3"	—	
v7(E)	6	#5	18'-1"	—	
Structure Excavation				Cu. Yd.	61
Concrete Structures				Cu. Yd.	56.5
Reinforcement Bars, Epoxy Coated				Pound	4210
Furnishing Steel Piles HP 14x73				Foot	288
Driving Piles				Foot	288
Test Pile Steel HP 14x73				Each	1

END VIEW

PILE DATA

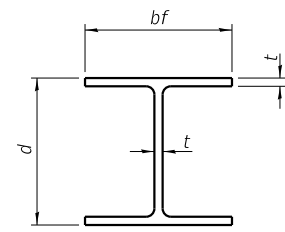
Type: Steel HP 14x73
 Nominal Required Bearing: 382 kips
 Factored Resistance Available: 210 kips
 Est. Length: 36 ft
 No. Production Piles: 8
 No. Test Piles: 1

Drive piles to achieve the Nominal Required Bearing value shown, with a tip elevation at or below Elev. 515.0'.



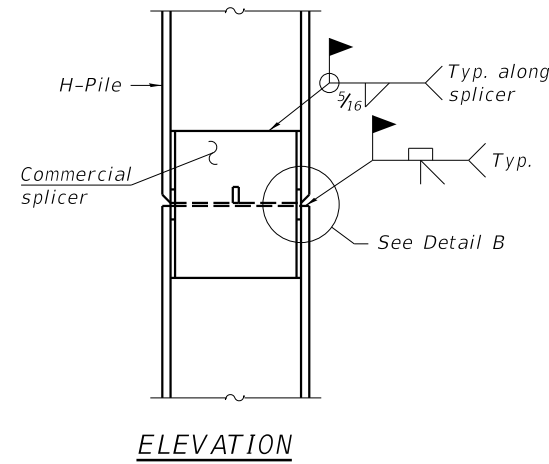
SECTION

Notes:
 For details of piles, see sheet 12 of 14.
 Drive one (1) test pile at Pier 2 in a production location.
 Coordinate locations of test piles with the Engineer.
 See sheet 10 of 14 for details of Bars u1(E) and s1(E).

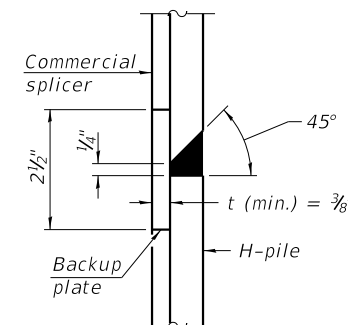


STEEL PILE TABLE

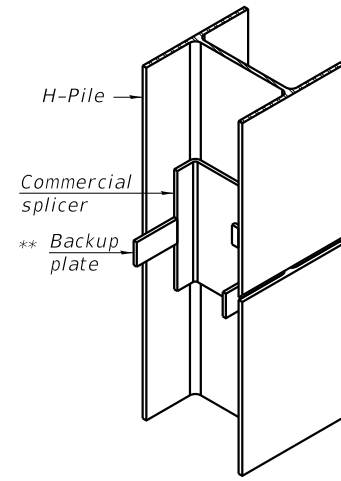
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

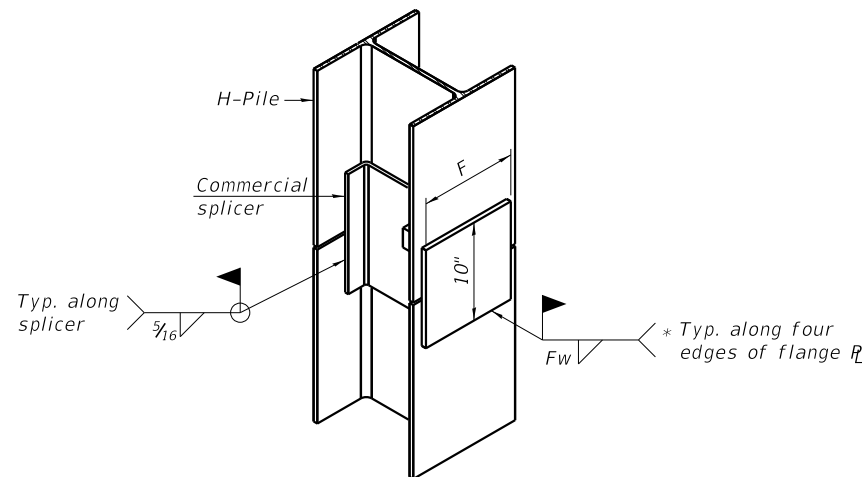


DETAIL "B"



ISOMETRIC VIEW

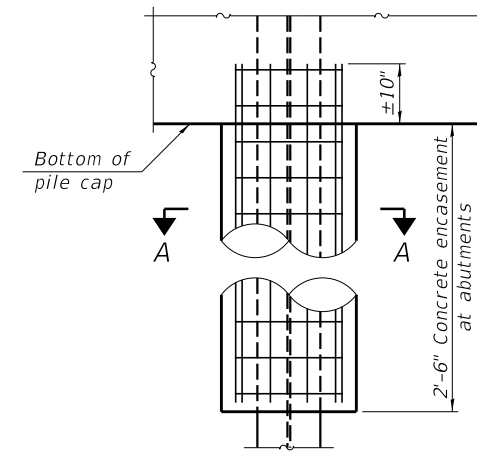
WELDED COMMERCIAL SPLICE



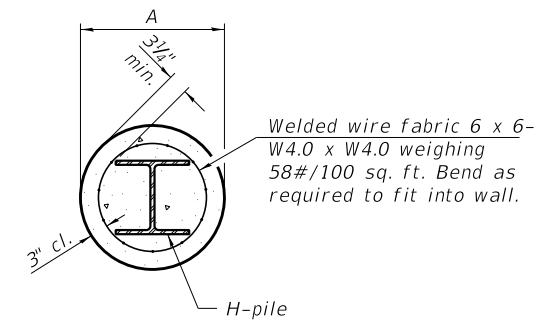
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

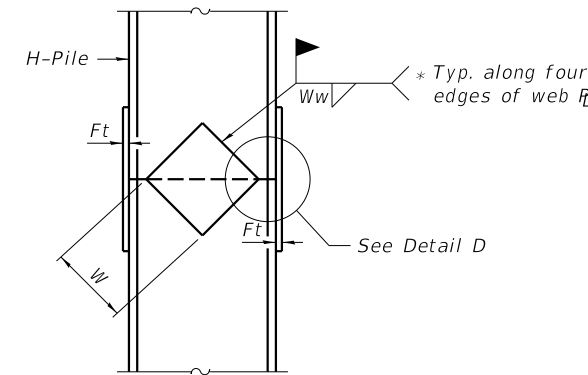


ELEVATION

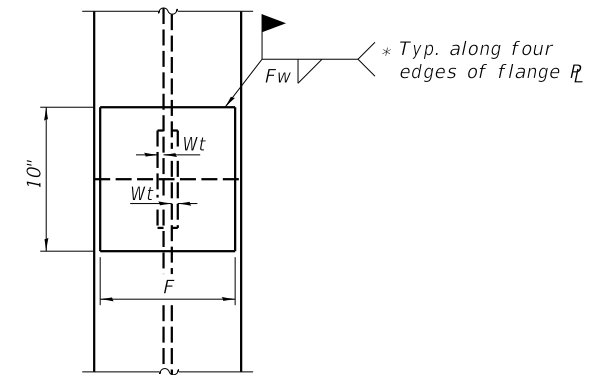


SECTION A-A

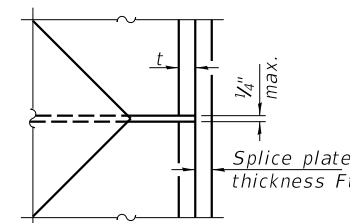
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW

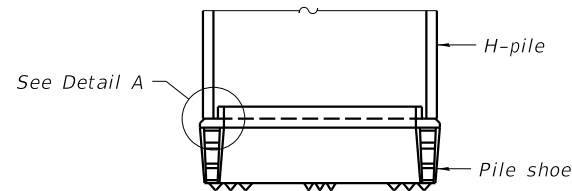


DETAIL D

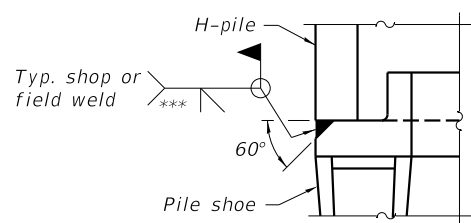
WELDED PLATE FIELD SPLICE

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

ELEVATION



SHOE ATTACHMENT



DETAIL A

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

MODEL: 0683386-00000-012
FILE NAME: I:\Contractors and Consultants\Prairie_Engineers\8141_White_Town_Bridge_Structural_Sub\CADD\CADD_Structural\0683386-000000_structure.dgn

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-16217 Bridge: Red Ball Trail Rd Date: 10-17-16
Section: over E Fork Shoal Creek
Structure: 068-3034 Station: 18+39.46 Bored by: J. Carter
County: Montgomery Checked By: T. Holcomb

Boring No.:	Station:	Offset:	Elevation	N	Qu tsf	w %	Surface Water Elev.		Elevation	N	Qu tsf	w %
							During Drilling	Upon Completion				
3			546.4	0					529.6			
Ground Surface 546.4												
1.5" A-3 Surface over 8.5" Concrete Bridge Deck												
sand with gravel (continued)												
522.1												
Gray Sandy CLAY (A-6)												
520.6-25 3 0.4B 26												
End of Boring @ -25.0'												
Boring terminated at -25' due to large rip-rap that could not be penetrated.												
Air												
-5												
-10												
Ground Line 533.1												
Brown SAND and GRAVEL (A-2-4) 532.1												
Gray Silty CLAY (A-6) with sand 2 0.1B 38												
-15												
21 -- -												
-40												
527.1												
Gray Fine to Medium SAND (A-2-4) with gravel 21 -- 24												
-20												
15 -- 21												

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

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-16217 Bridge: Red Ball Trail Rd Date: 10-17-16
Section: over E Fork Shoal Creek
Structure: 068-3034 Station: 18+39.46 Bored by: J. Carter
County: Montgomery Checked By: T. Holcomb

Boring No.:	Station:	Offset:	Elevation	N	Qu tsf	w %	Surface Water Elev.		Elevation	N	Qu tsf	w %
							During Drilling	Upon Completion				
4			545.6	0					527.1			
Ground Surface 545.6												
1.5" A-3 Surface over 8" Concrete Bridge Deck												
sand and gravel (continued)												
519.6												
Gray SAND and GRAVEL (A-2-4)												
5 21												
-25 3 0.4B 27												
Air												
-5												
-30 18 -- 15												
513.6												
Gray Sandy SHALE												
47 -- 15												
Ground Line 535.6 -10												
Gray Sand and Gravel (A-2-4) 534.6												
Gray Silty CLAY (A-6)												
3 0.3B 38												
-35												
100 /4" -- 15												
100 /3" -- 10												
-15 2 0.1B 40												
100 /3" -- 13												
506.6												
End of Boring @ -39.0'												
-40												
528.1 0 -- 25												
Gray Fine to Medium SAND and GRAVEL (A-2-4)												
-20 5 -- 19												
524.6												
Gray Mottled Brown Sandy CLAY (A-6) with sand and gravel 3 -- 24												

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

MODEL: 0683386-0000-014
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STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

BORING LOGS
STRUCTURE NO. 068-3368

SHEET 14 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	35
CONTRACT NO. 93778				

ILLINOIS FED. AID PROJECT

Existing Structure:
Single cell 10'x3' precast box culvert with companion 36" Ø pipe culvert. Box is approximately 30' long with no end sections and pipe is approximately 36' long. Both structures to be removed.

Benchmark MW6:
Set RR spike in power pole ±38' west of SN 068-3034, ±70' north of Red Ball Trail.

GENERAL NOTES

The design fill height for this box is 0-2 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

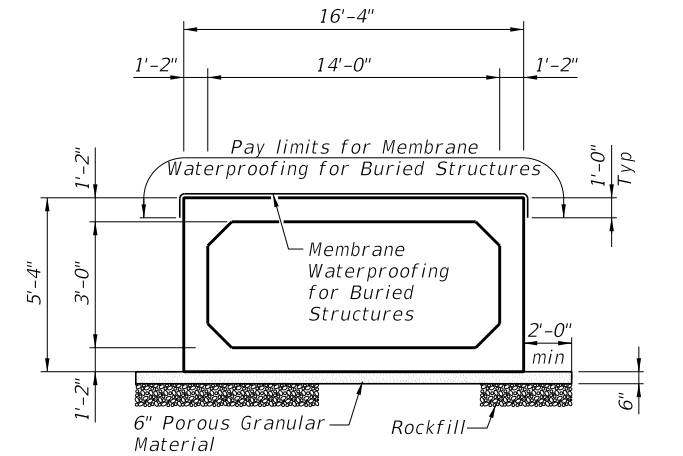
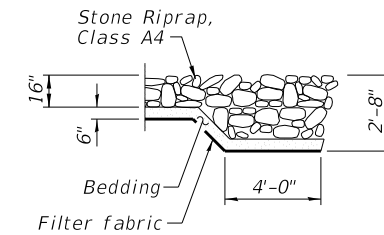
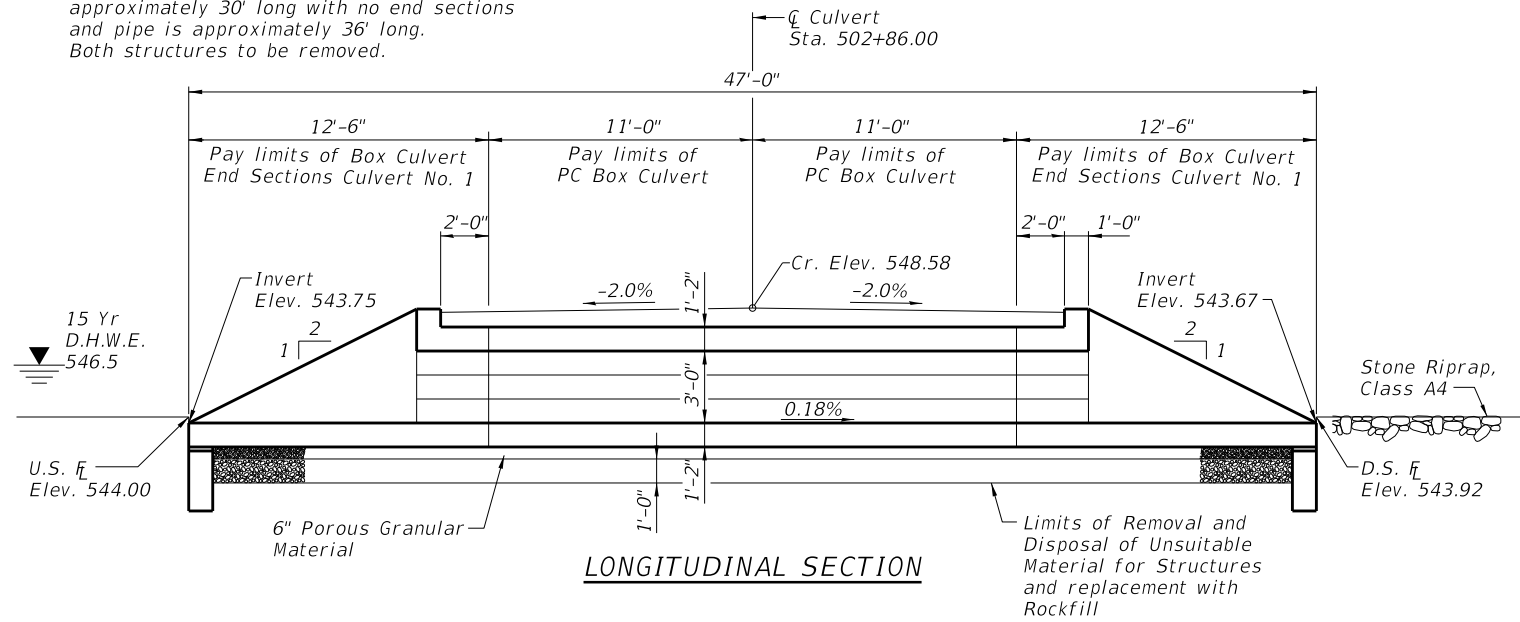
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material bedding will not be paid for separately but shall be included in the unit price of the work for which it is required.

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the Engineer for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rockfill.

See Sheet 3 of 3 for Typical Section Thru Precast Box Culvert showing typical reinforcement requirements in the precast concrete box culvert. The Contractor may elect to provide a modified design or thickness dimensions. Actual reinforcement provided and dimensions of the precast box section, including wall and slab thicknesses, shall be determined in the final design provided by the Contractor. Modified design shall be sealed by an Illinois Licensed Structural Engineer, and included in the shop drawing submittal provided for the box culvert and end sections.



INDEX OF SHEETS

- 1. General Plan and Elevation
- 2.-3. Single Cell Precast Box Culvert Tapered End Sections

DESIGN SPECIFICATIONS

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

LOADING HL-93

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

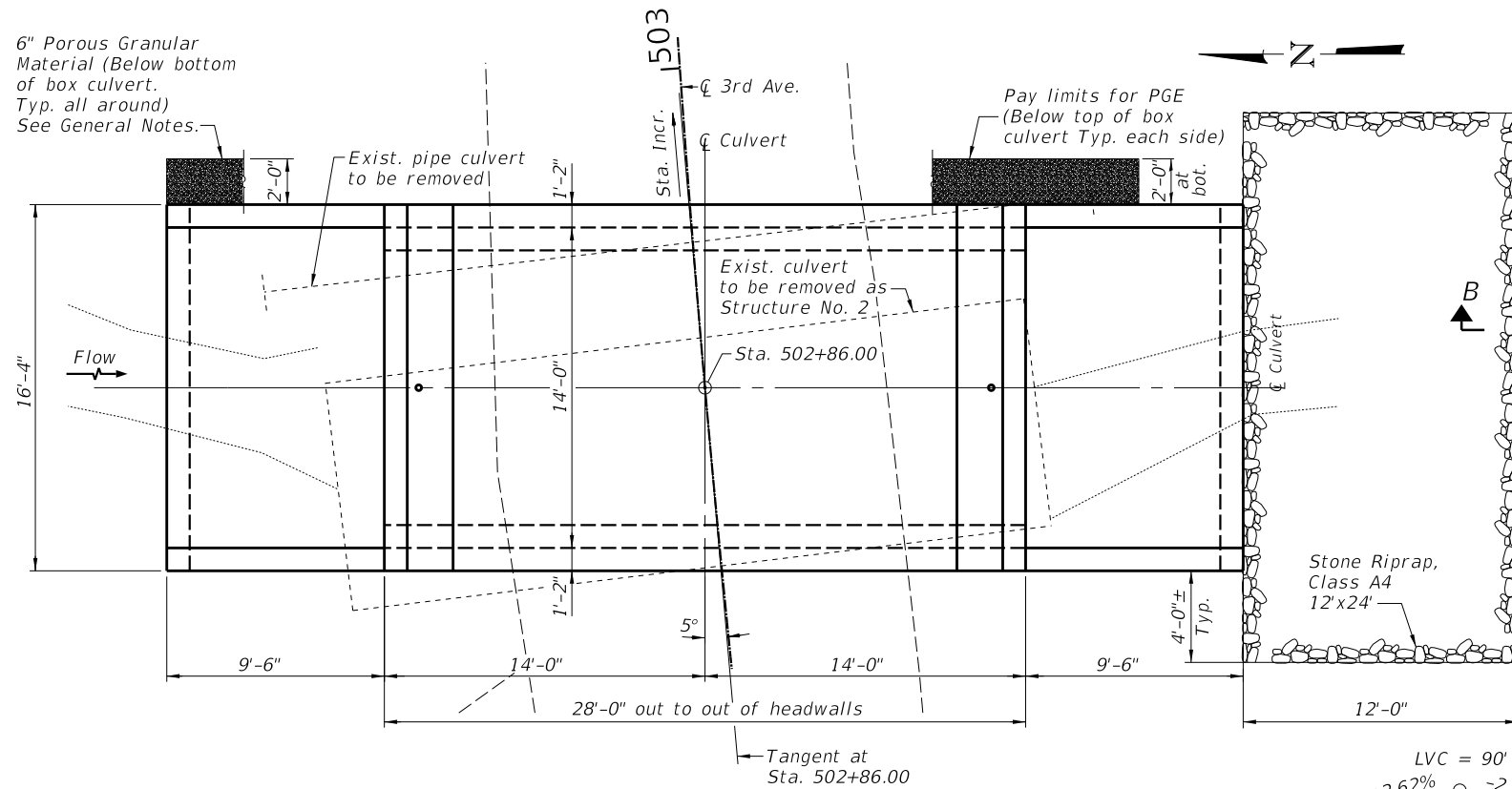
DESIGN STRESSES

PRECAST UNITS

$f'c = 5,000$ psi
 $f_y = 60,000$ psi (Bar Reinforcement)

TOTAL BILL OF MATERIAL

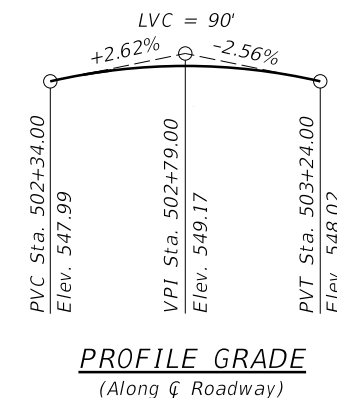
ITEM	UNIT	TOTAL
Porous Granular Embankment	Ton	128
Stone Riprap, Class A4	Ton	32
Filter Fabric	Sq. Yd.	34
Removal of Existing Structures No. 2	Each	1
Pipe Culvert Removal	Foot	36
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	35
Box Culvert End Sections, Culvert No. 1	Each	2
Membrane Waterproofing System for Buried Structures	Sq. Yd.	53
Precast Concrete Box Culvert (Special)	Foot	22
Rock Fill	Ton	62



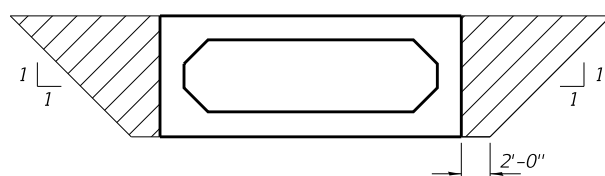
PLAN

CURVE DATA

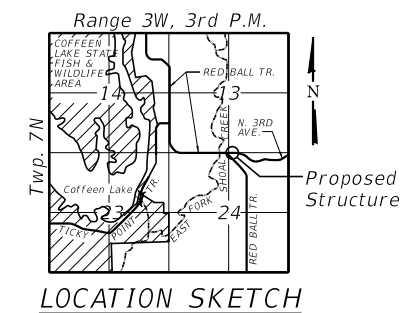
P.I. Sta. = 503+26.41
 $\Delta = 11^\circ 18' 40''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 79.22'$
 $L = 157.93'$
 $E = 3.91'$
 $e =$
 $T.R. =$
 $S.E. Run =$
 $P.C. Sta. = 502+47.18$
 $P.T. Sta. = 504+05.12$



PROFILE GRADE
(Along \bar{C} Roadway)



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
(Hatched area)



LOCATION SKETCH



Jeremy Buening, P.E., S.E.
License Expires 11/30/22

3/7/2022

Date

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STATE OF ILLINOIS
MONTGOMERY COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN AND ELEVATION
PRECAST CONCRETE BOX CULVERT 3RD AVE. STA. 502 + 86.00

SHEET 1 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	36
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culvert except as modified herein.

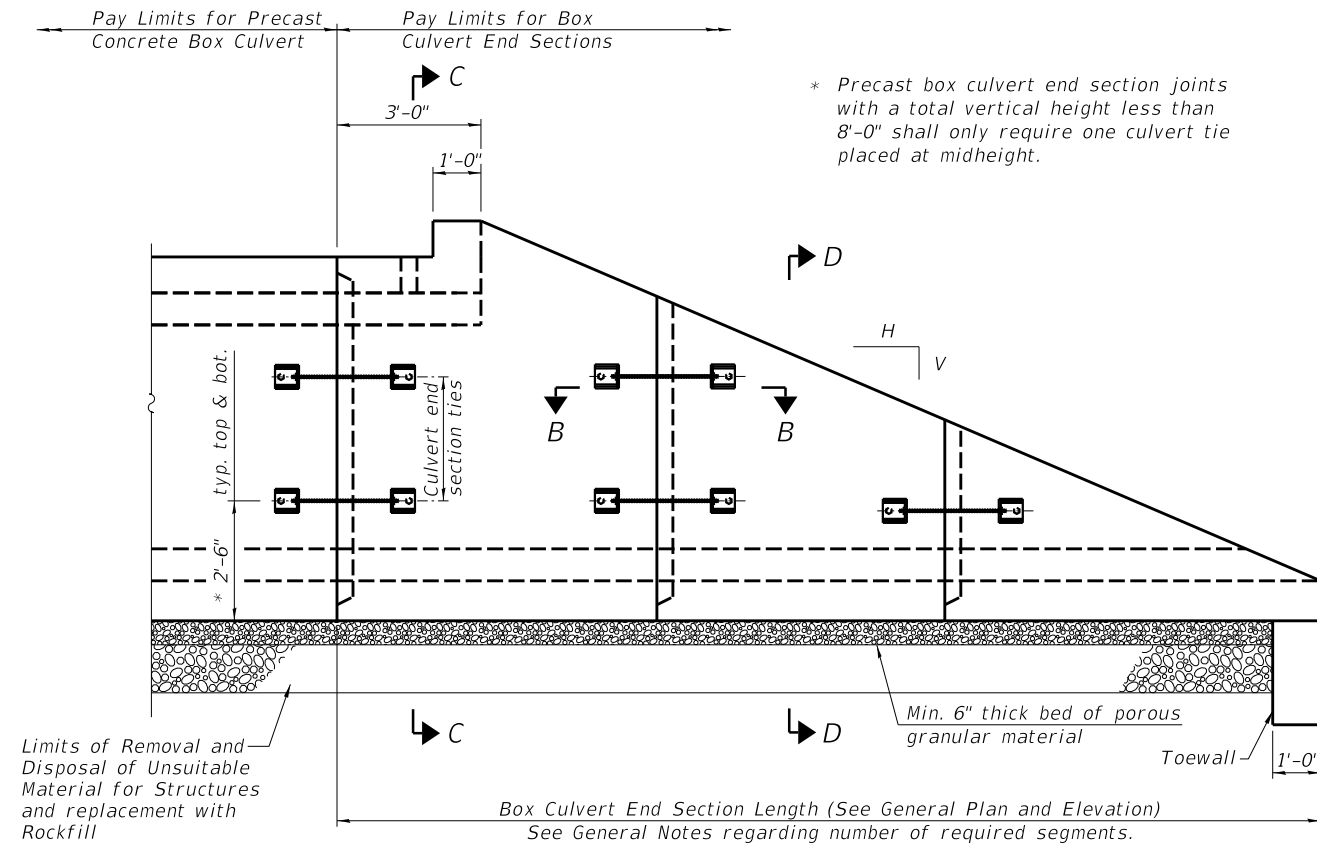
Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See General Plan and Elevation for embankment slope (V:H).

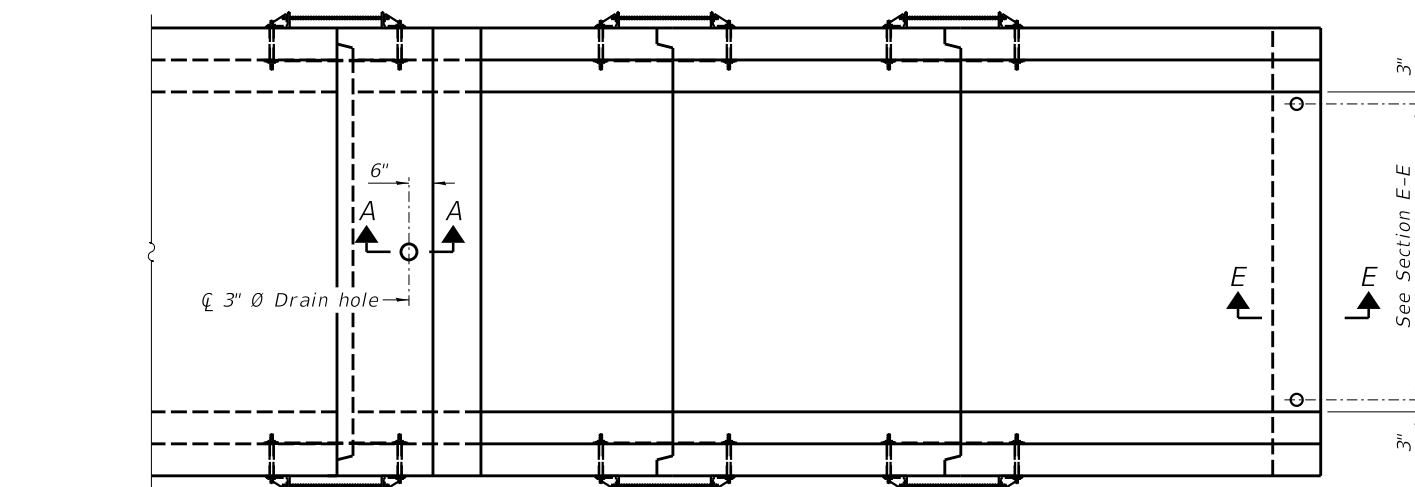
1" \emptyset anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

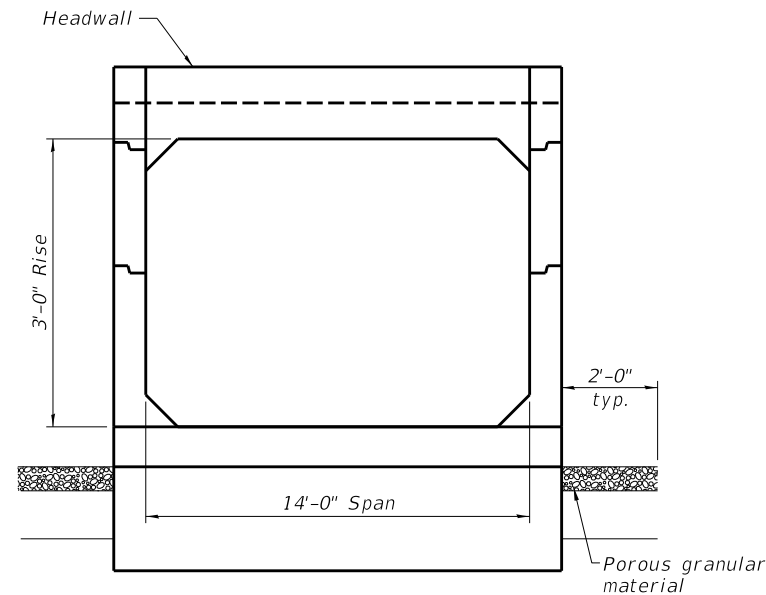
Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd.. See Sheet 3 of 3 for Section C-C, Section D-D, and Section E-E.



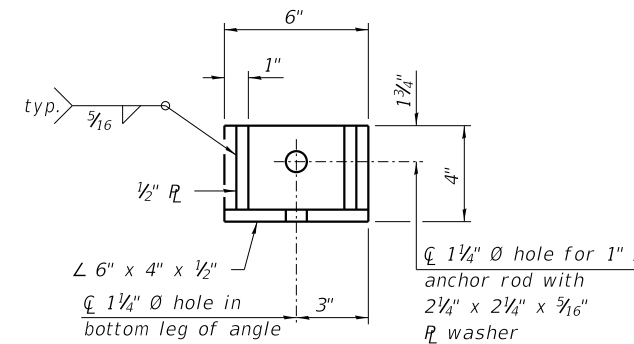
ELEVATION



PLAN



END VIEW



RESTRAINT ANGLE DETAIL

12" x 12" x 4" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

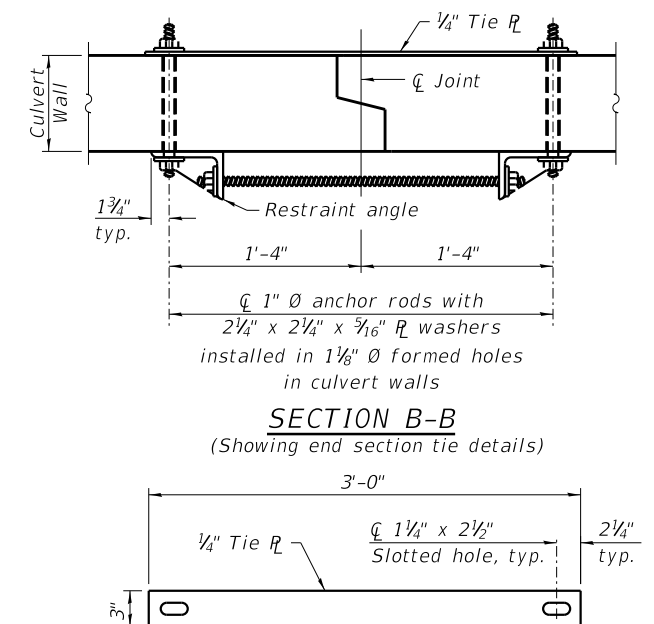
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" \emptyset PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed with formwork)

SECTION A-A

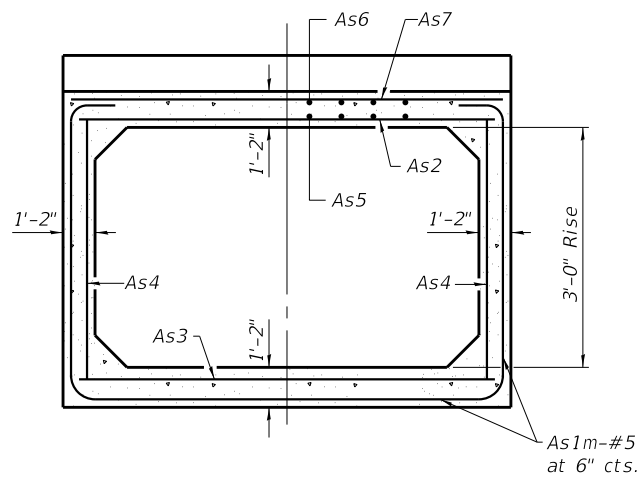
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.) (Sheet 1 of 2)



TIE PLATE DETAIL

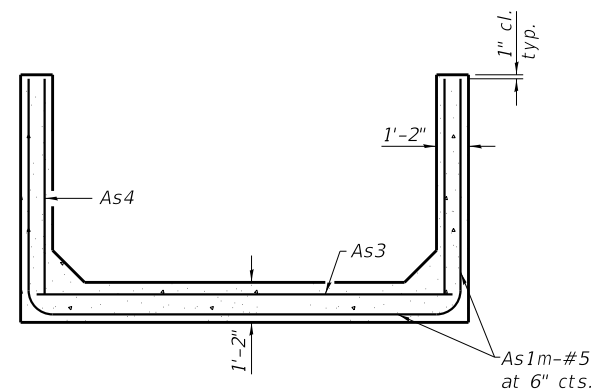
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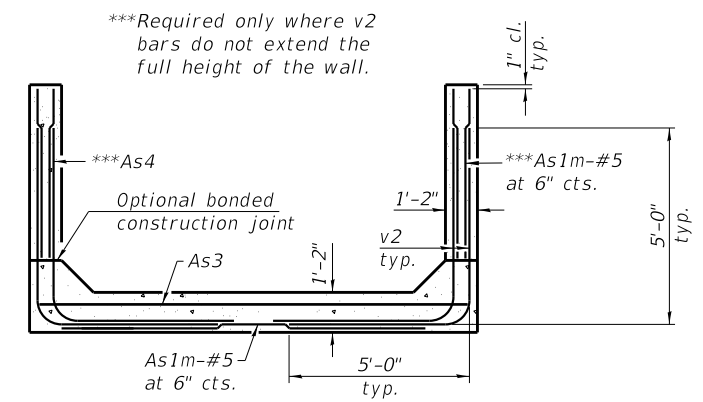
SECTION C-C

See Typical Section Thru Precast Box Culvert for reinforcement requirements of As2 thru As7.



SECTION D-D

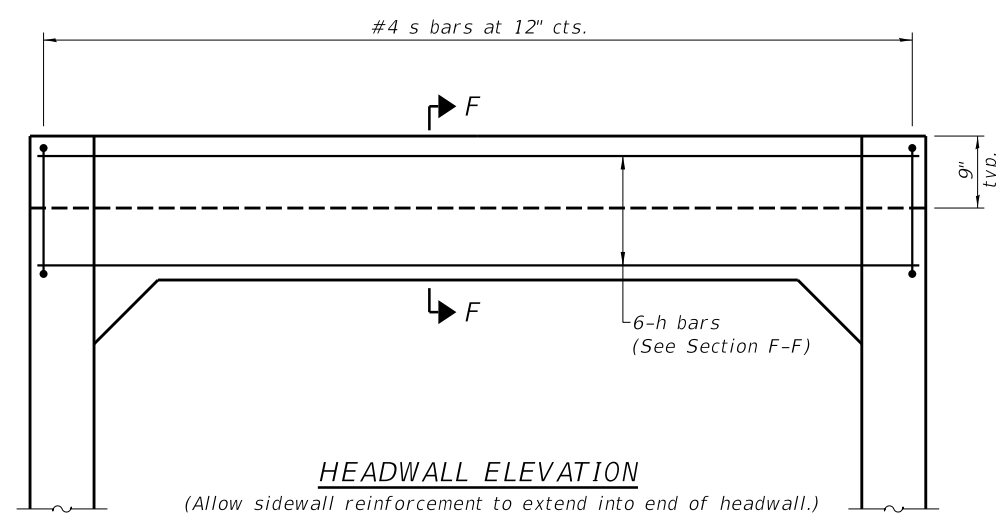
See Typical Section Thru Precast Box Culvert for reinforcement requirements of As3 thru As4.



ALTERNATE SECTION D-D

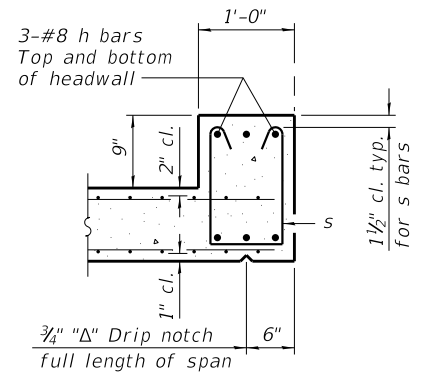
See Typical Section Thru Precast Box Culvert for reinforcement requirements of As3 thru As4.

Notes:
 Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.
 The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.
 Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.
 Note that Tt, Tb and Ts are thickness dimensions equal to the thickness of the top, bottom and walls respectively of the adjacent precast box section.

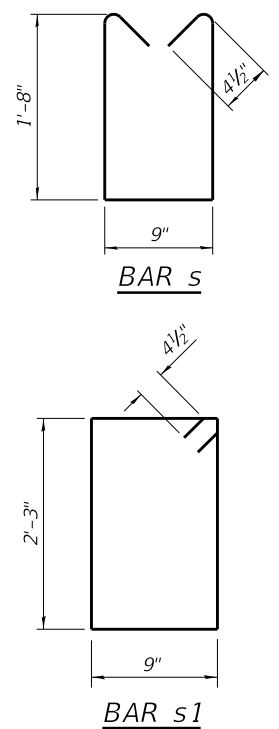


HEADWALL ELEVATION

(Allow sidewall reinforcement to extend into end of headwall.)

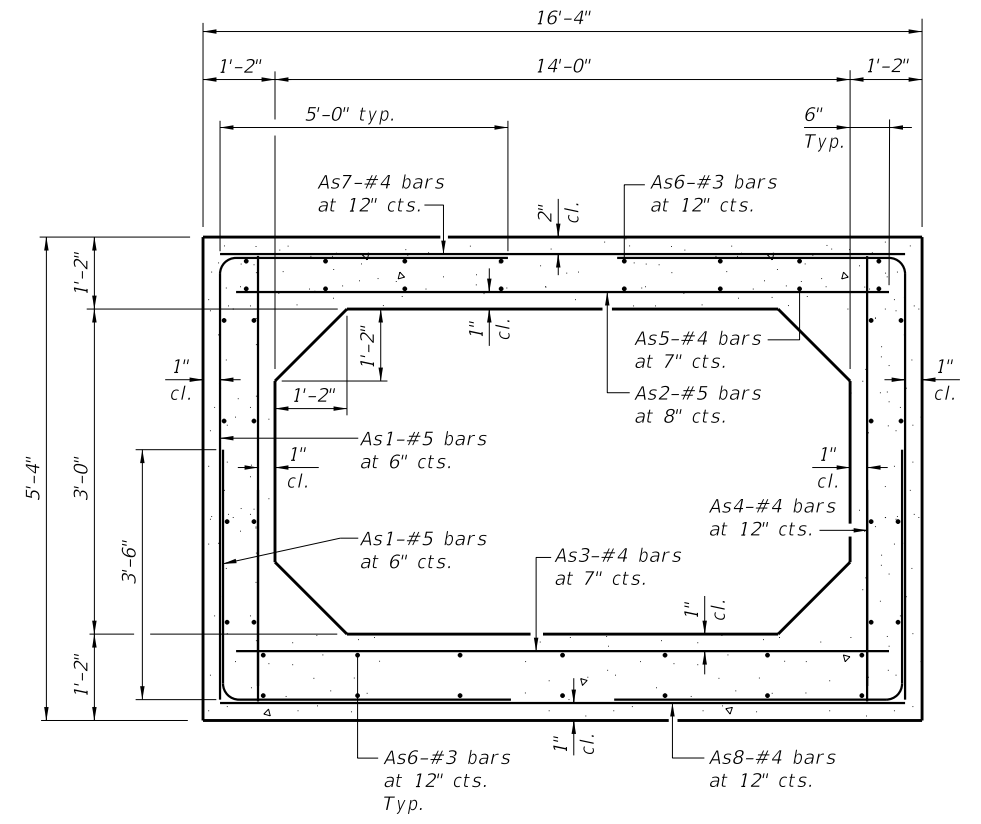


SECTION F-F

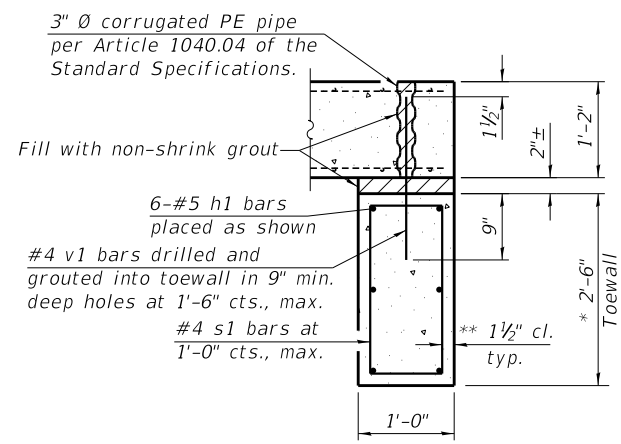


BAR S

BAR s1



TYPICAL SECTION THRU PRECAST BOX CULVERT



SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
 2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
 3. Set precast box culvert end section.
 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

(Sheet 2 of 2)



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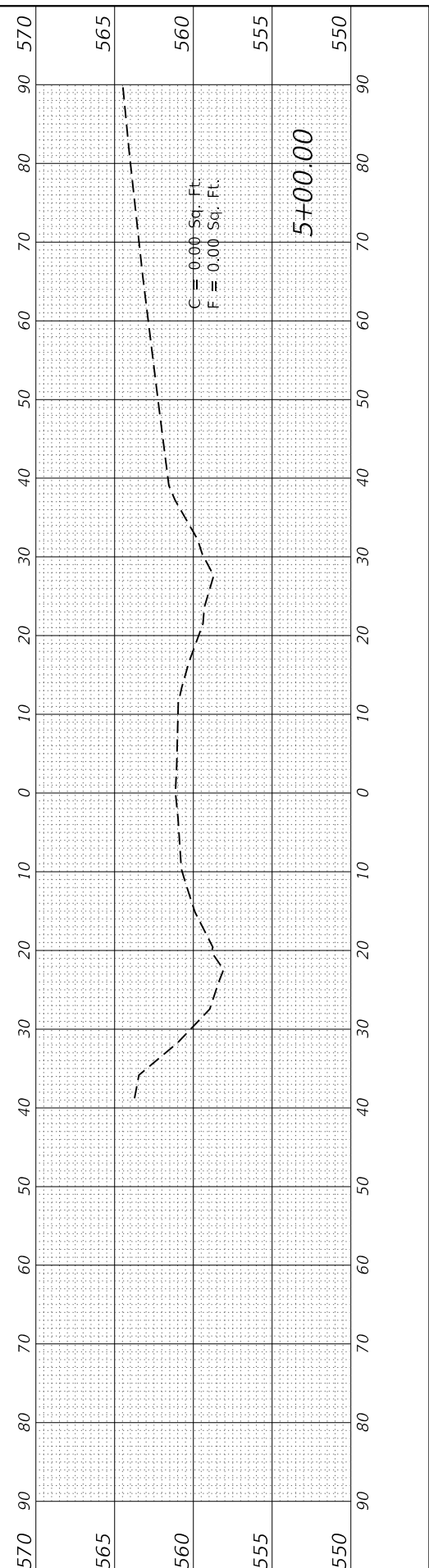
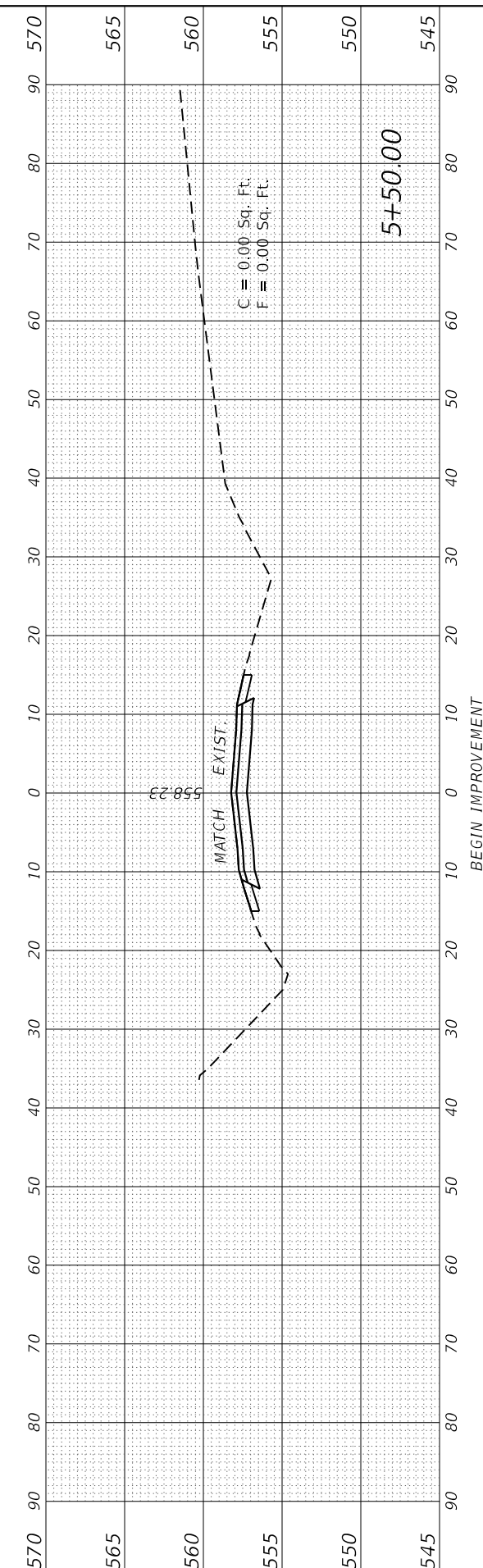
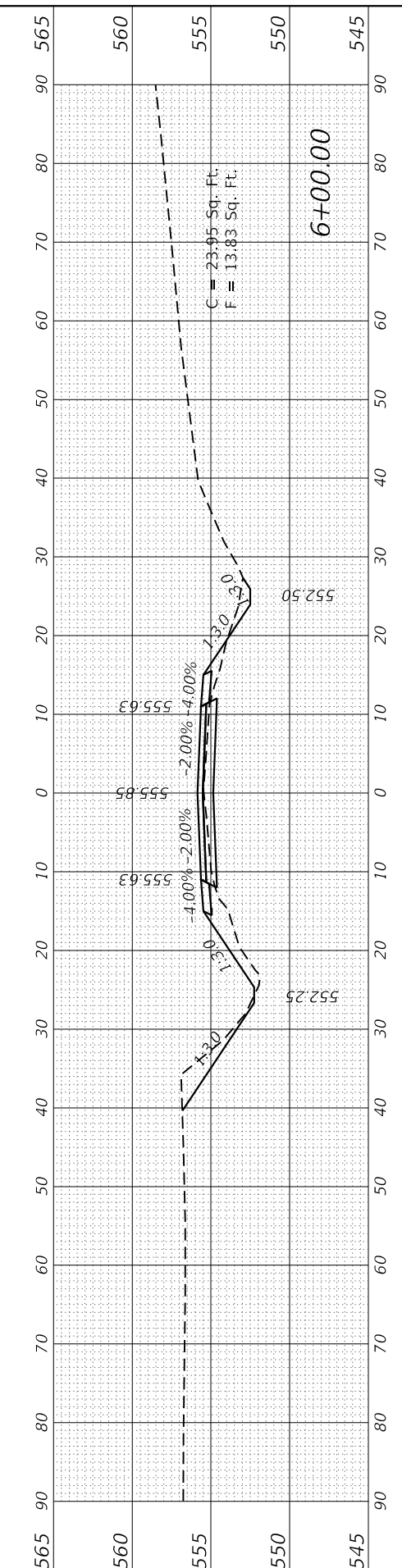
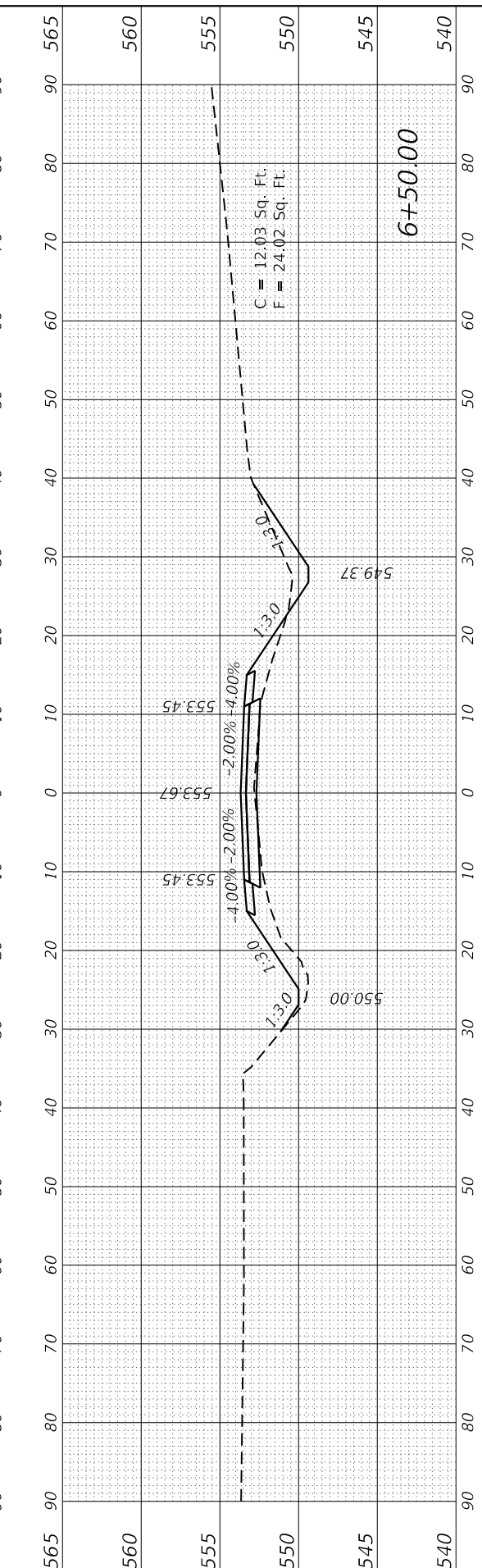
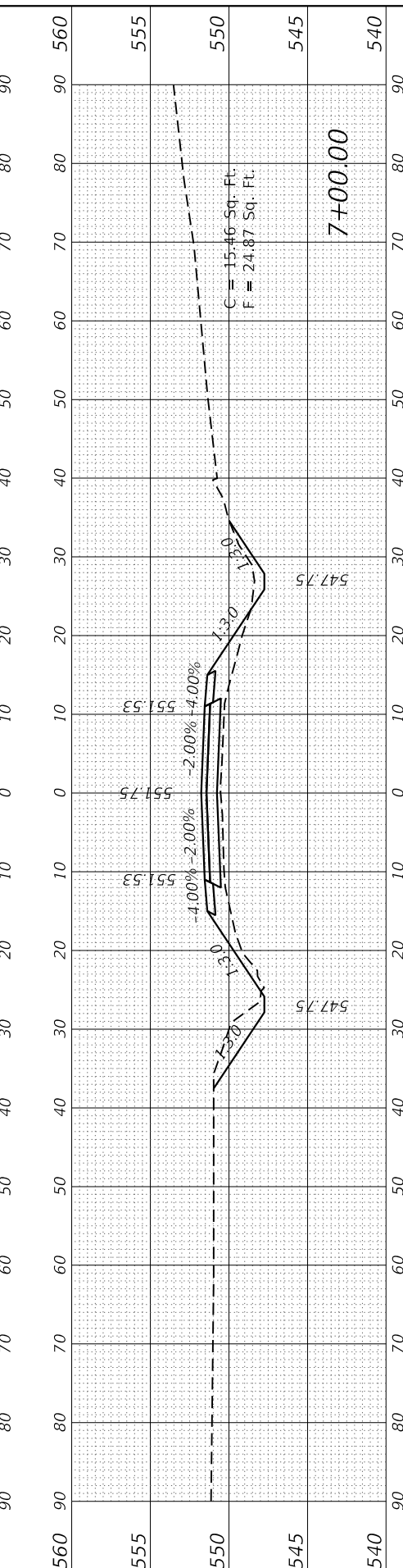
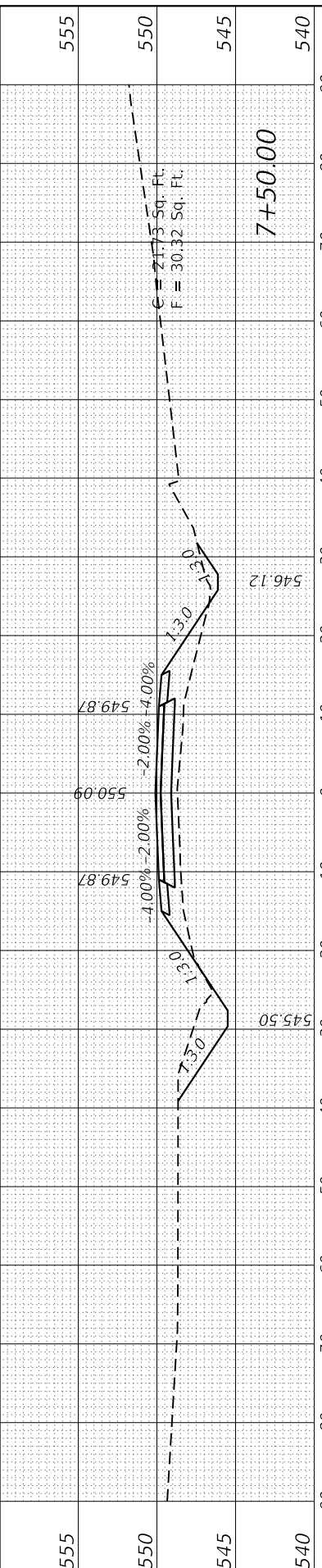
SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS
 PRECAST CONCRETE BOX CULVERT 3RD AVE. STA. 502 + 86.00

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CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
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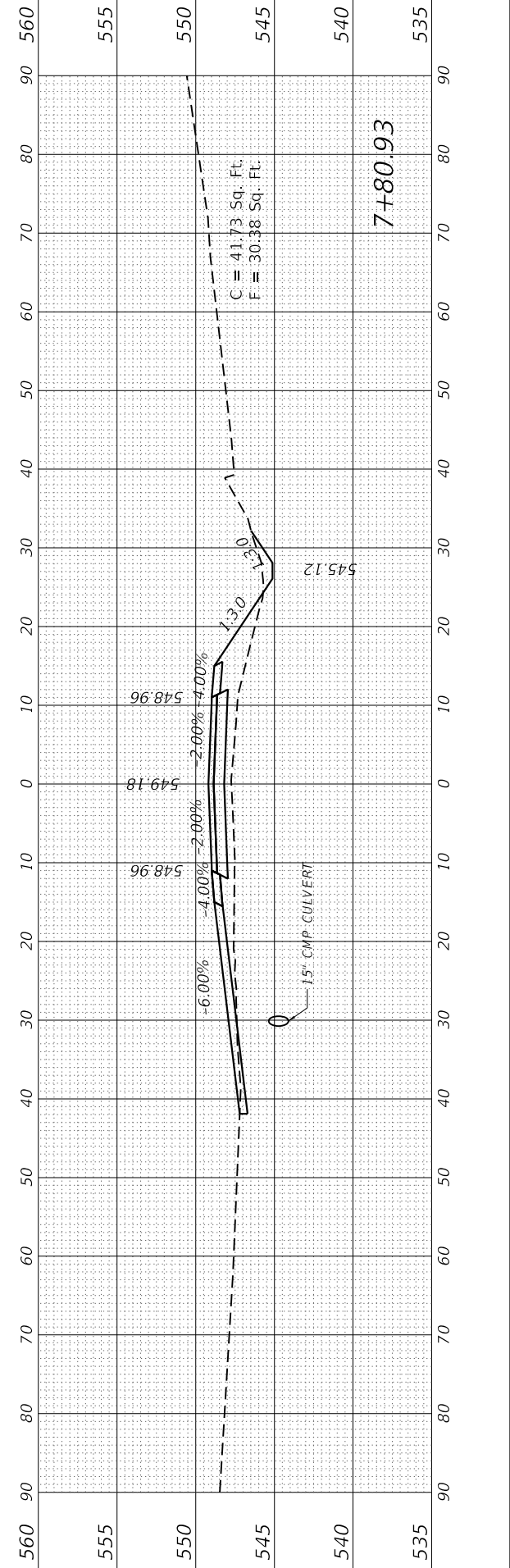
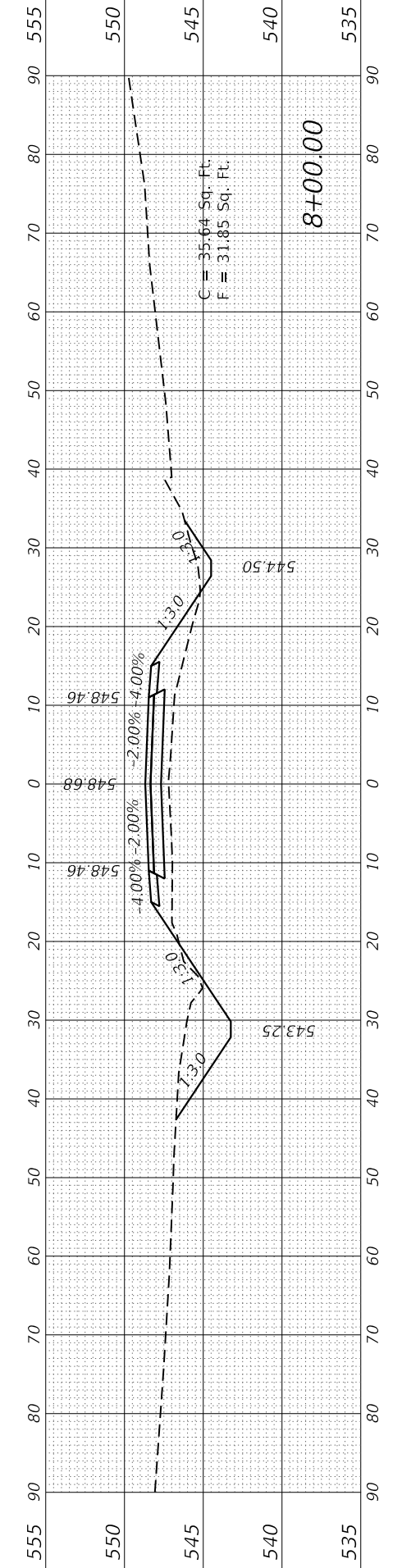
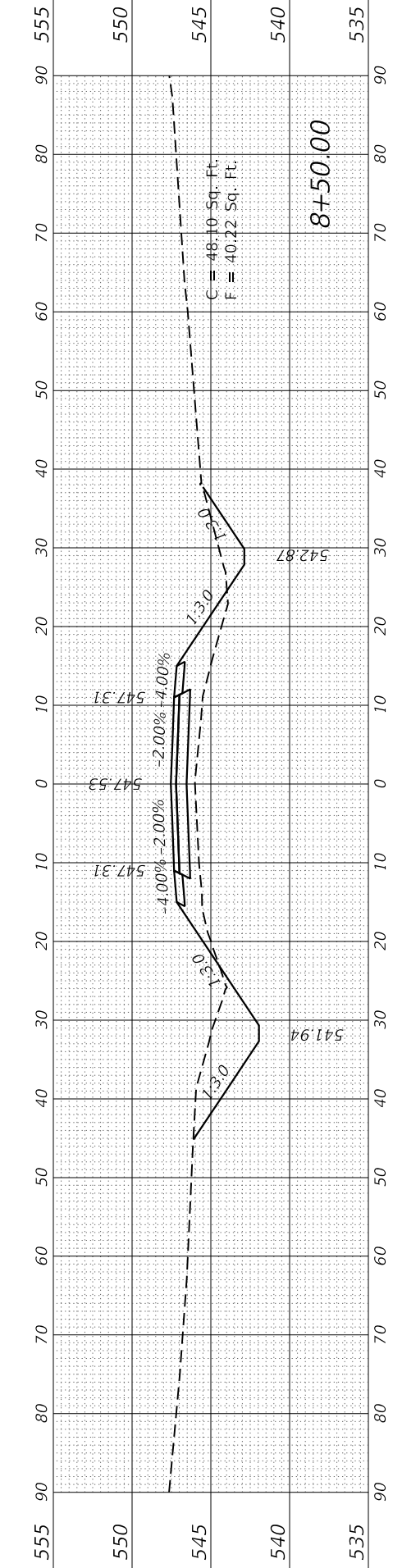
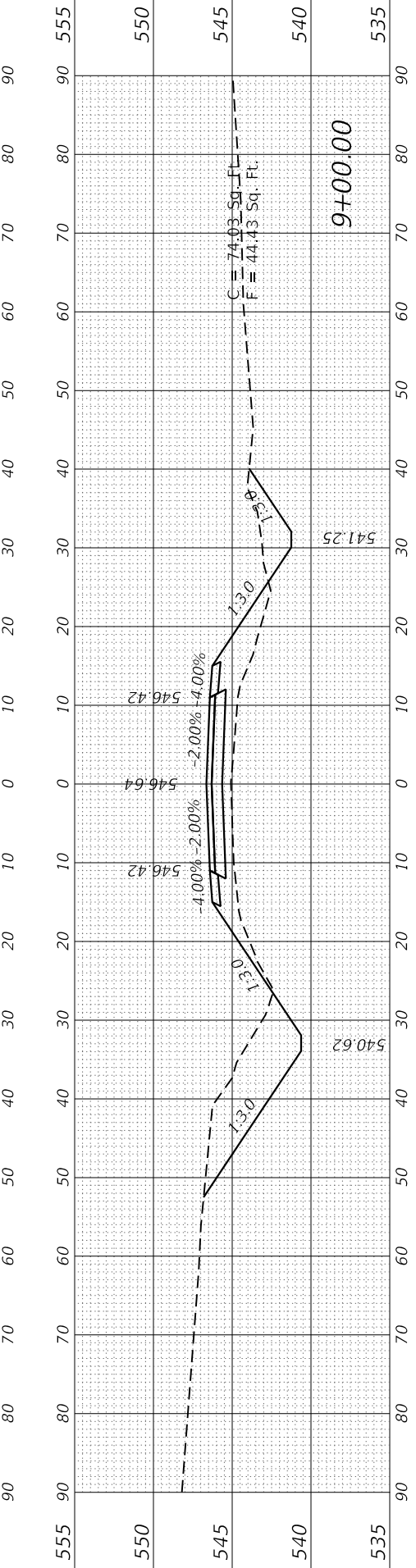
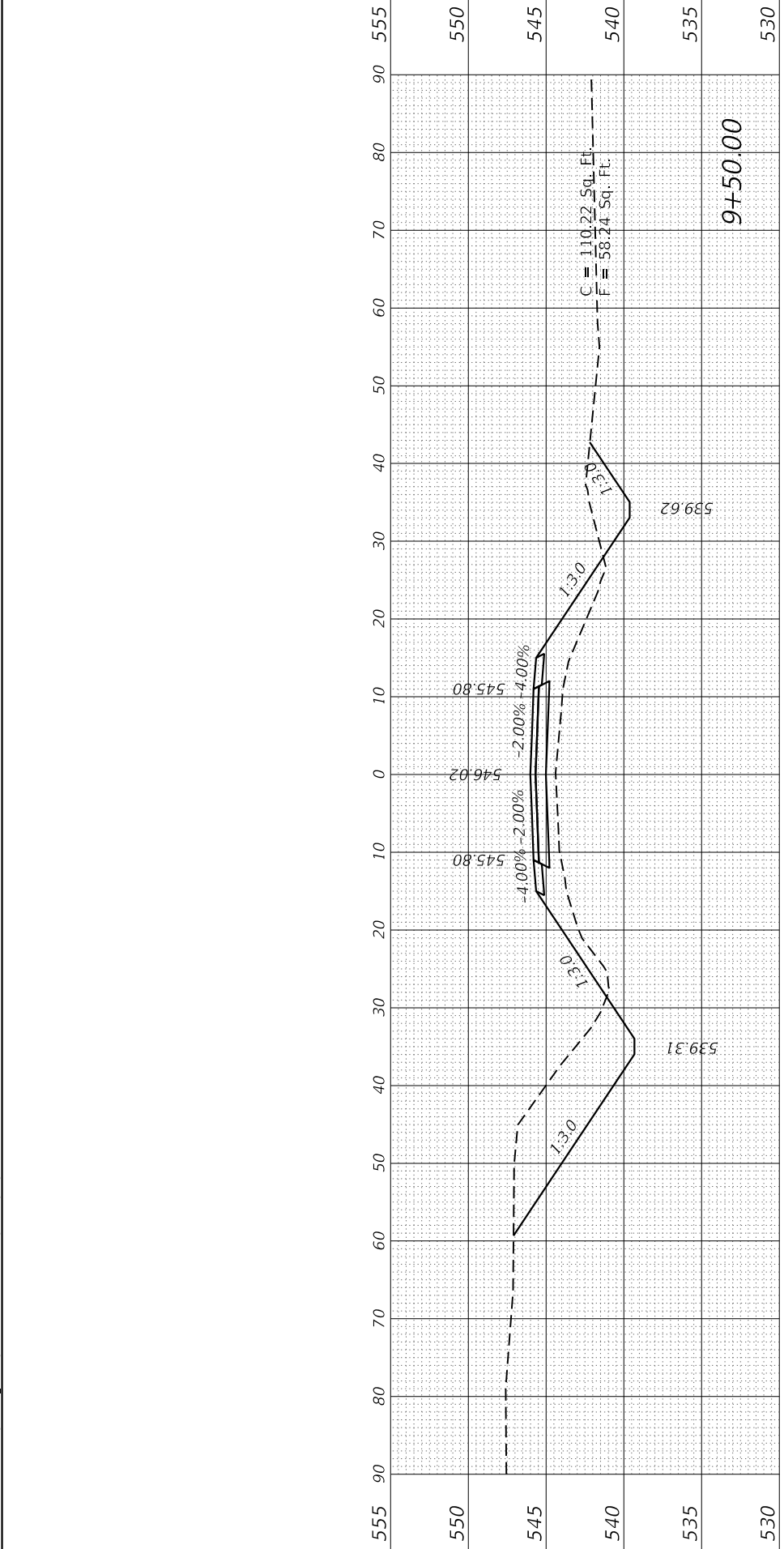
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CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

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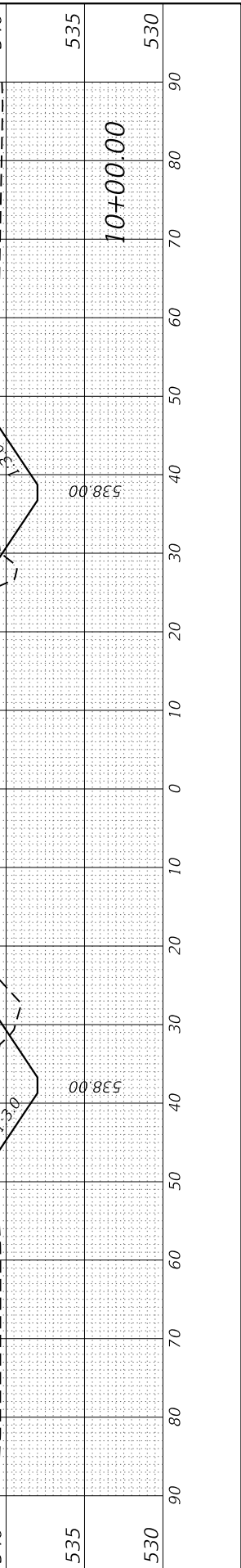
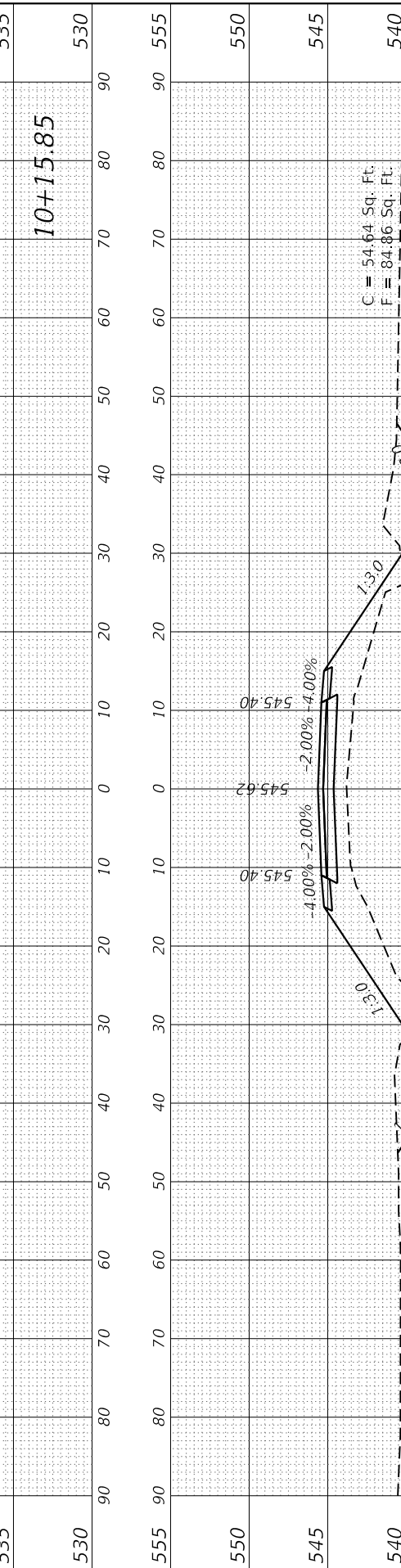
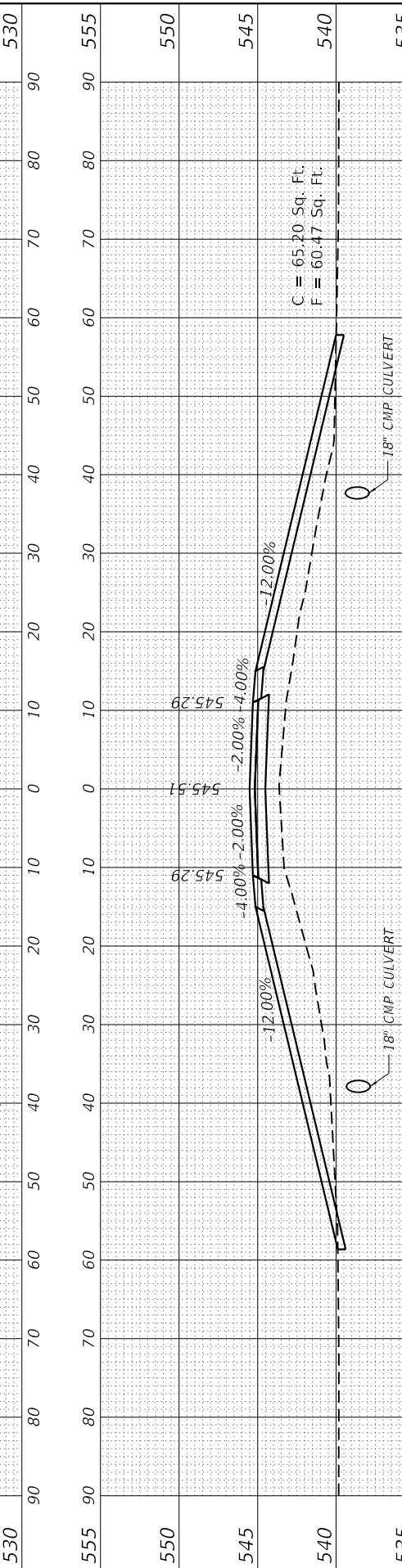
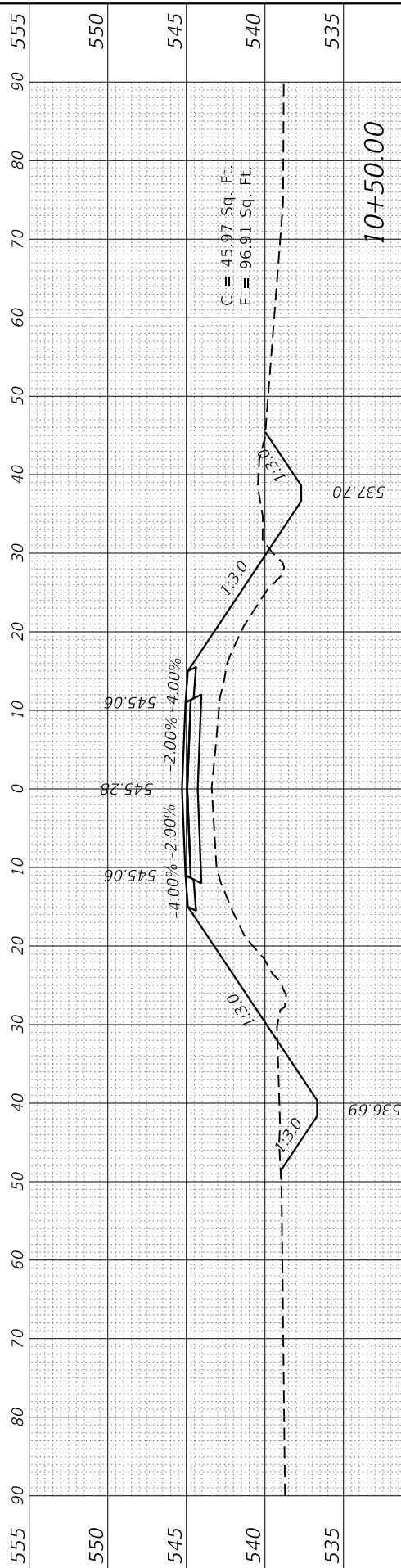
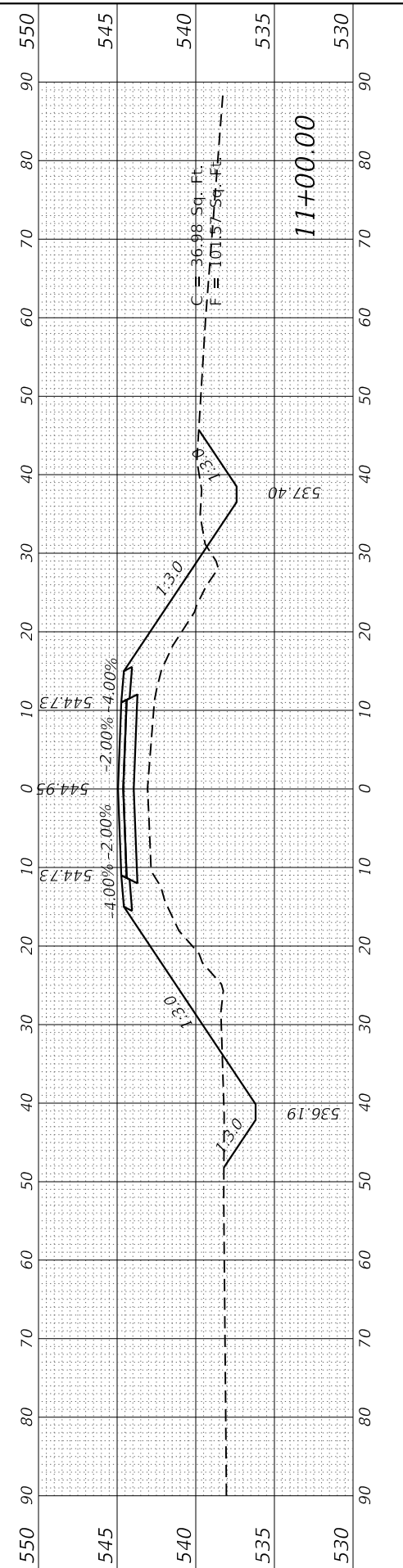
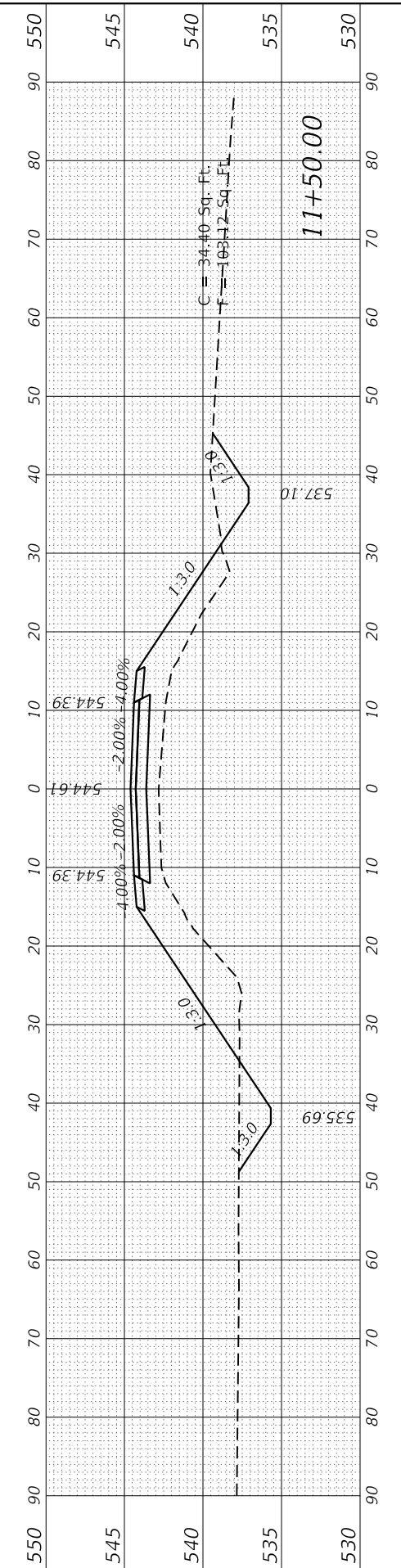
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		ILLINOIS	FED. AID PROJECT	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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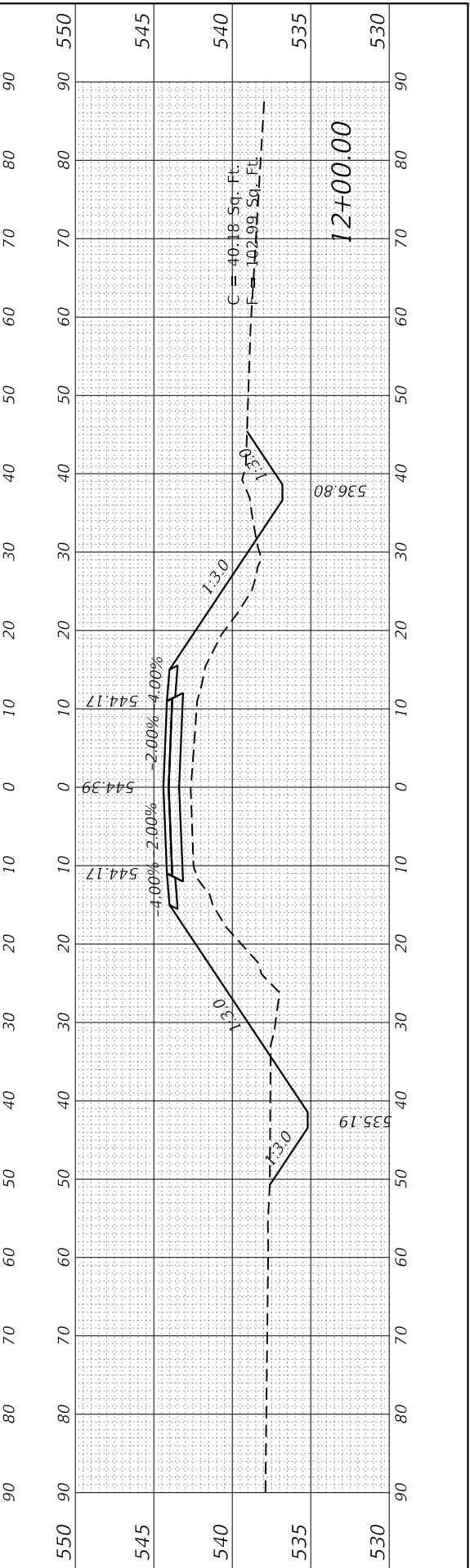
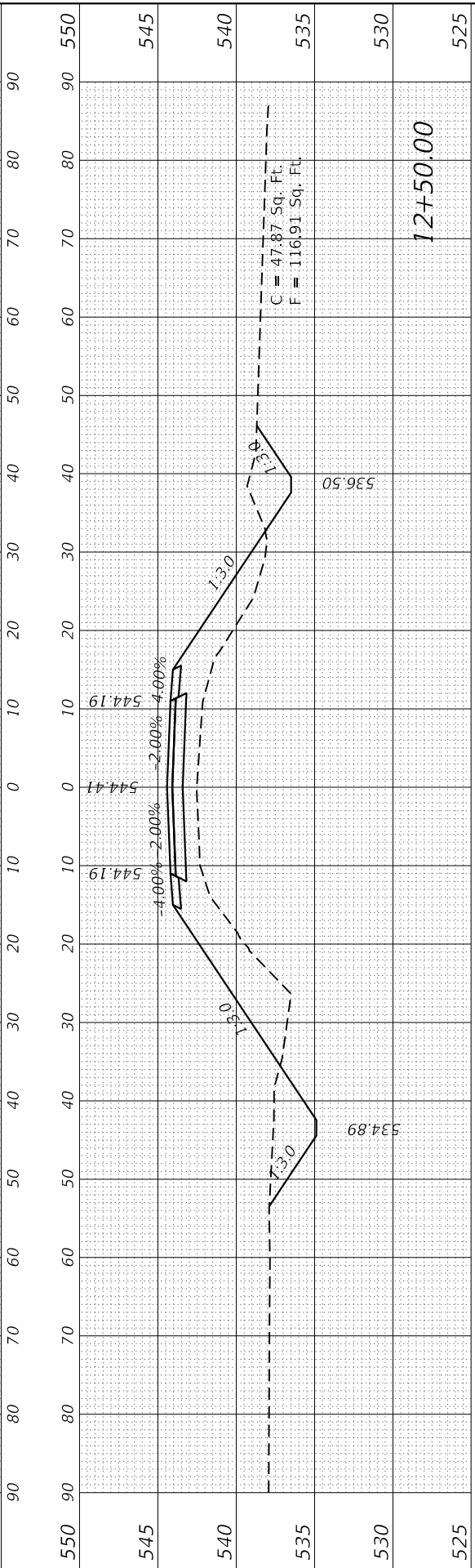
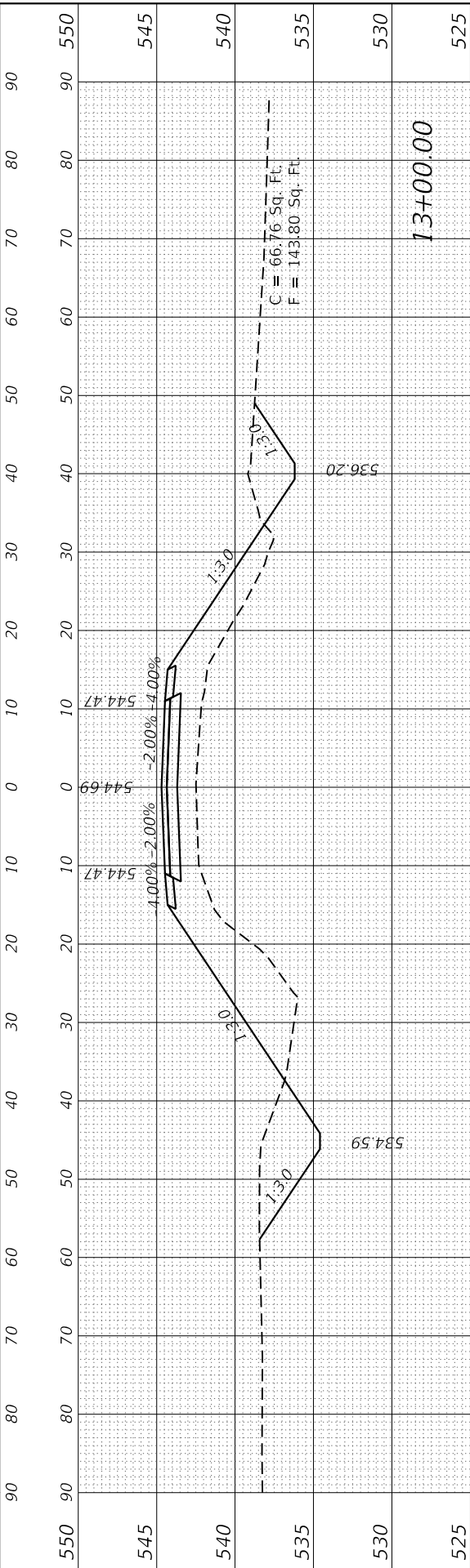
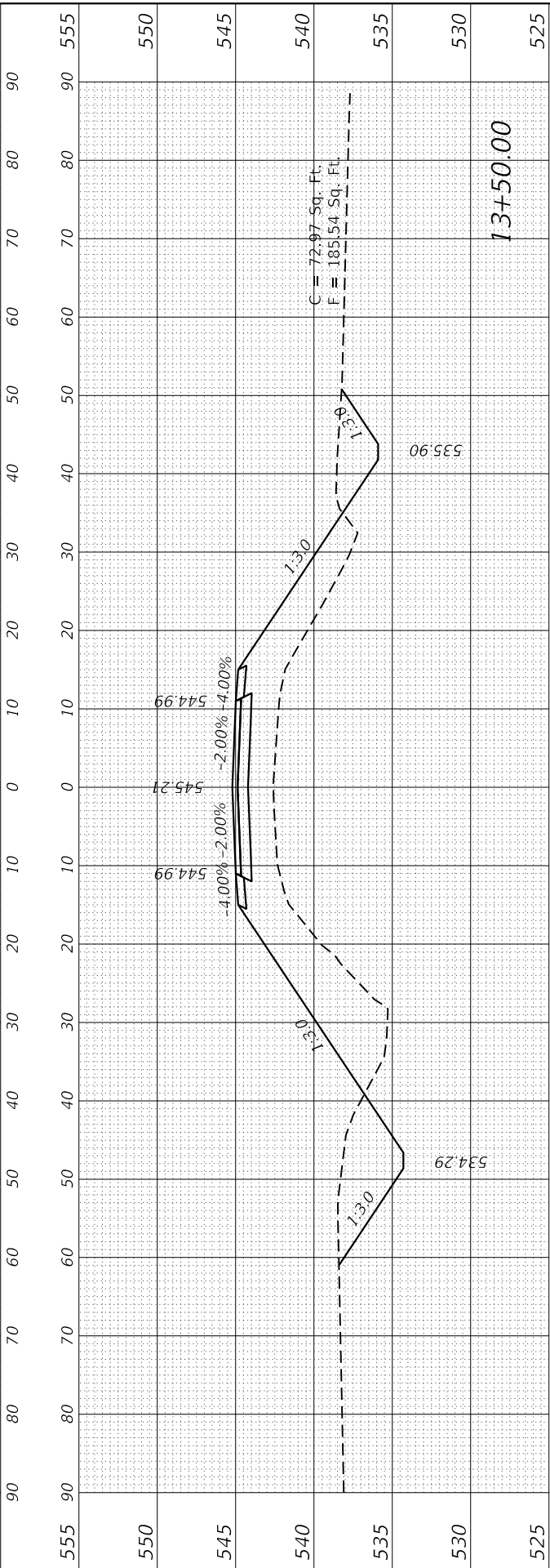
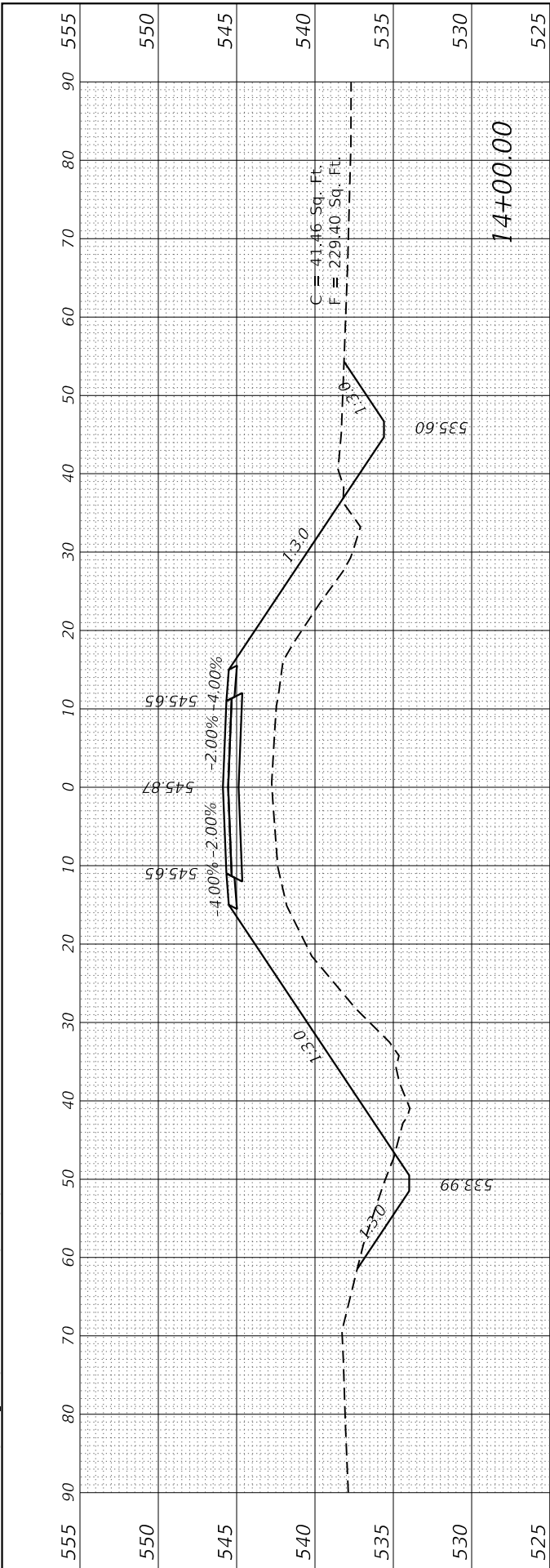
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ILLINOIS FED. AID PROJECT				

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NOTE BOOK	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

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

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 PLOT DATE = 3/7/2022

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET 4 OF 9 SHEETS STA. 12+00.00 TO STA. 14+00.00

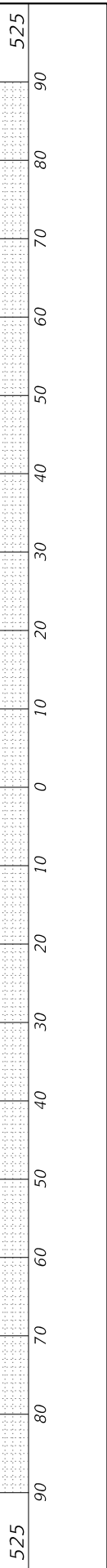
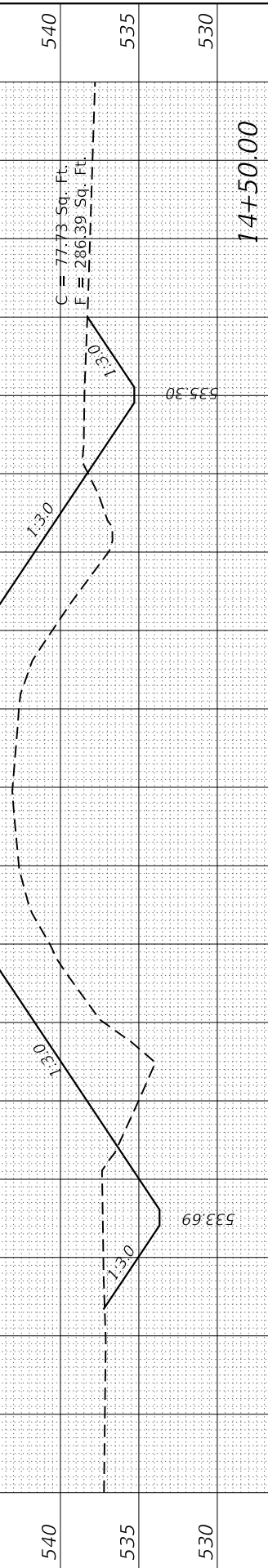
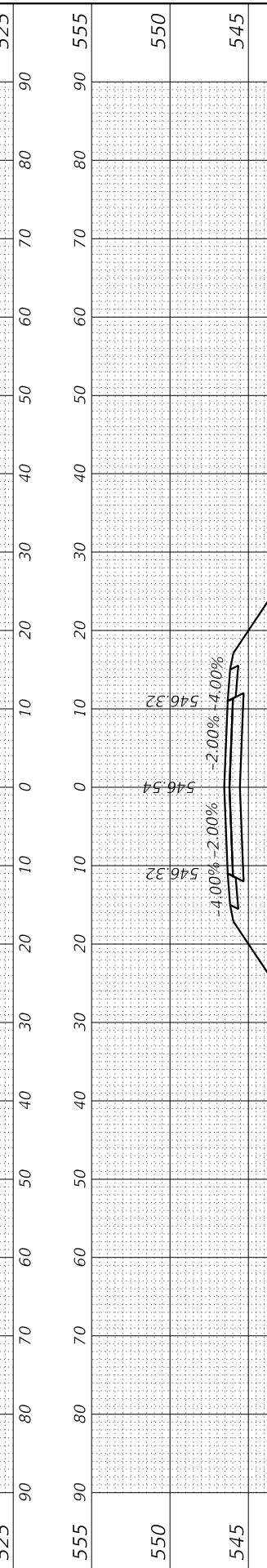
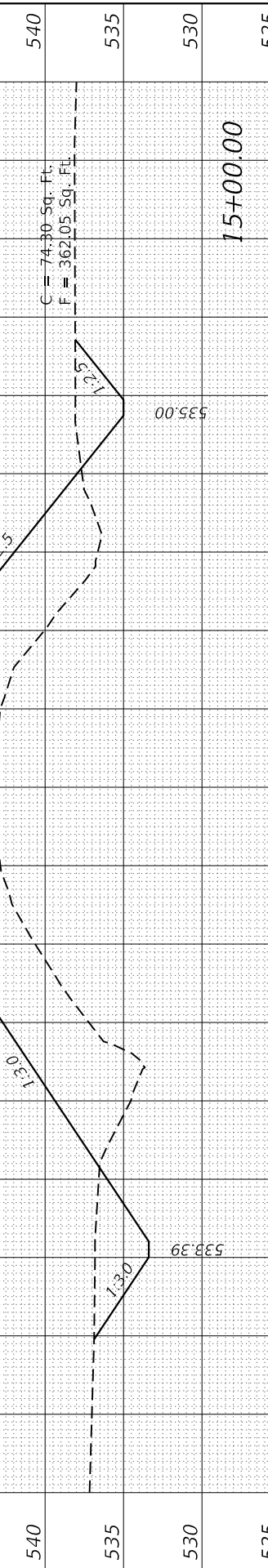
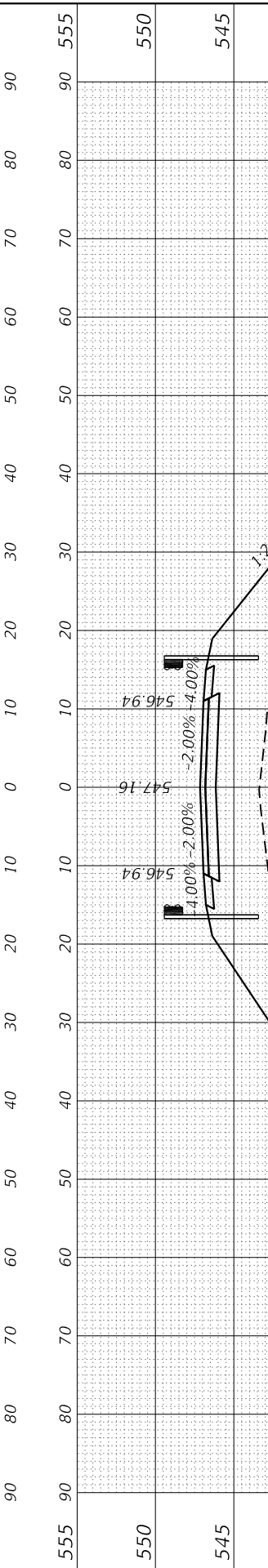
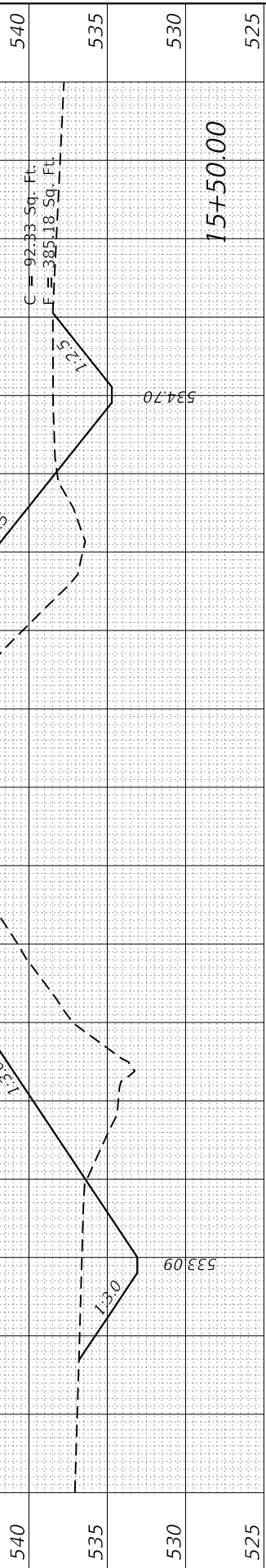
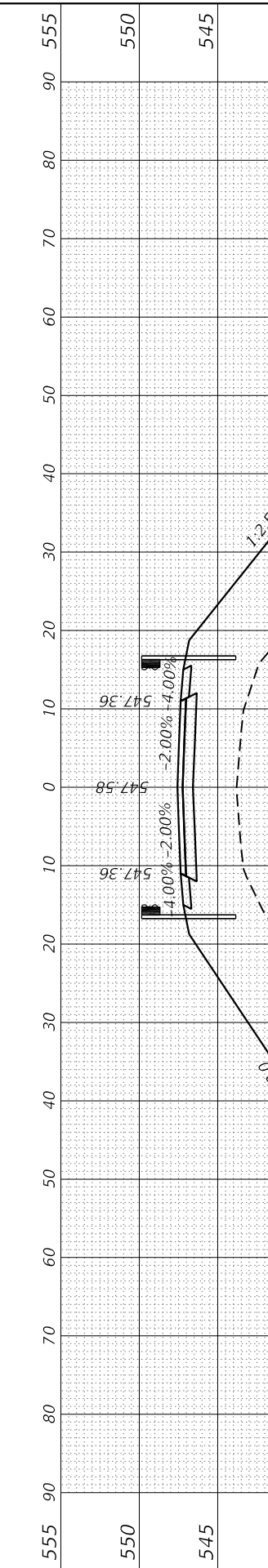
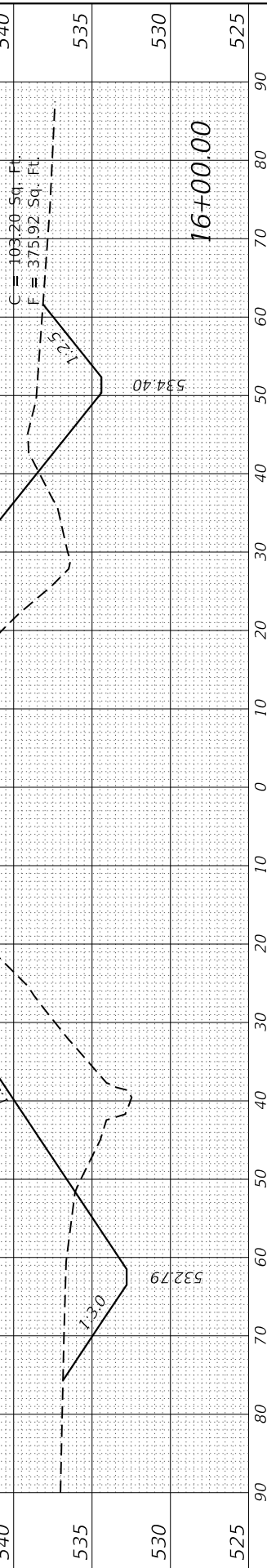
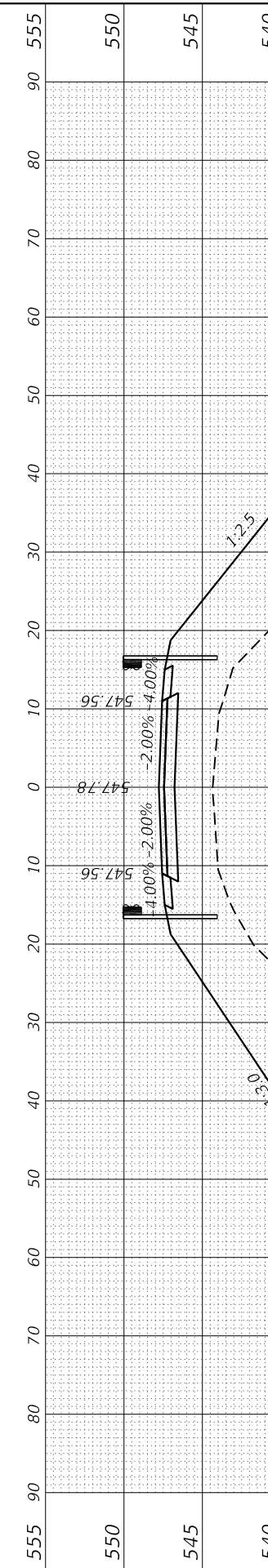
**CROSS SECTIONS
 RED BALL TRAIL**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	42
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

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

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

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PLOT DATE = 3/7/2022	DATE -	REVISED -

STATE OF ILLINOIS	DESIGNED - ZDL	REVISED -
DEPARTMENT OF TRANSPORTATION	DRAWN - RNH	REVISED -
	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

CROSS SECTIONS	SCALE:	SHEET 5	OF 9	SHEETS	STA. 14+50.00 TO STA. 16+00.00
RED BALL TRAIL					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	43
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

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

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

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DRAWN	- RNH
CHECKED	- ZDL
DATE	-

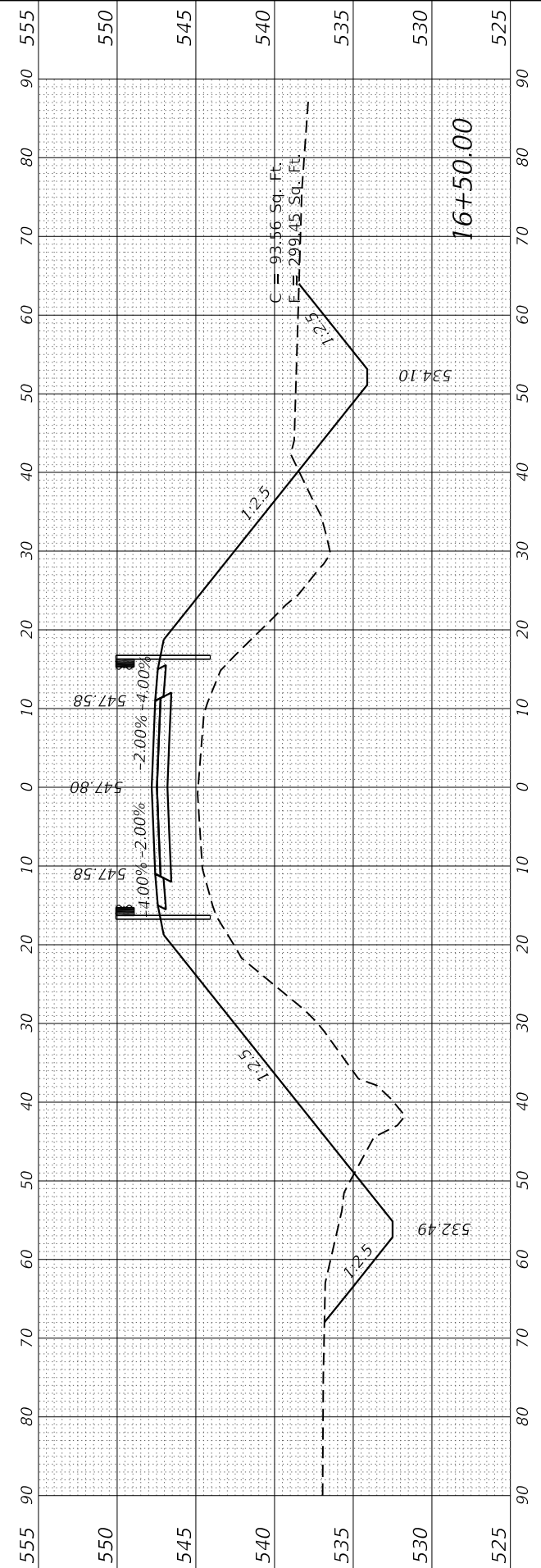
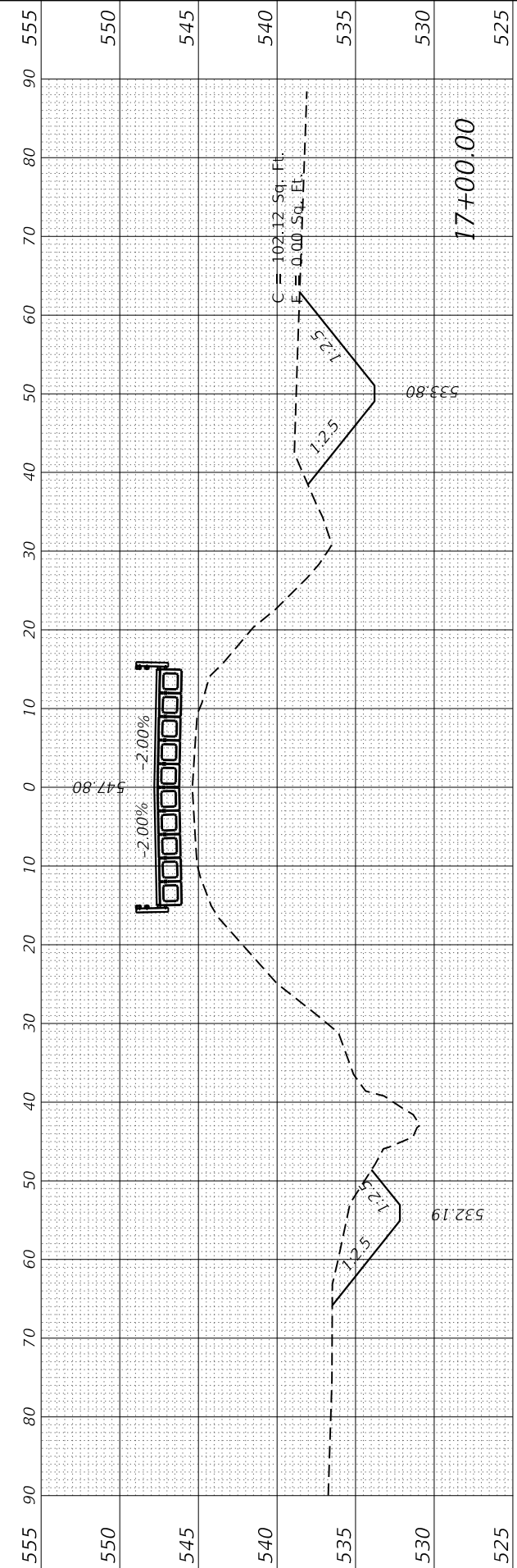
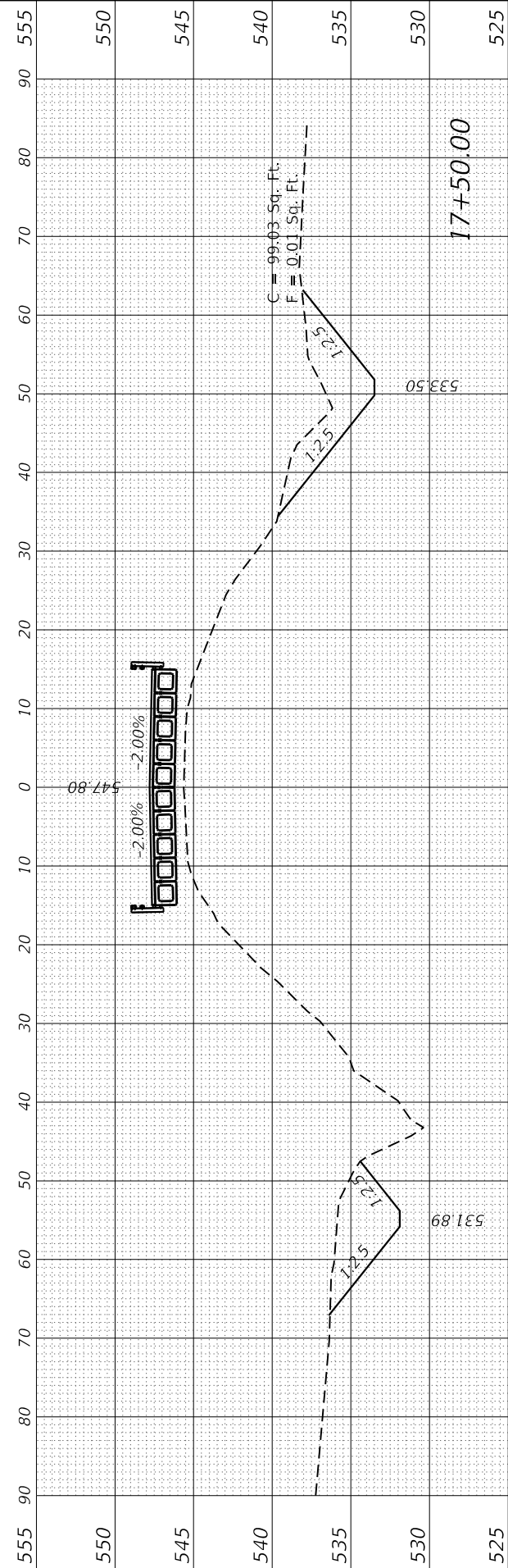
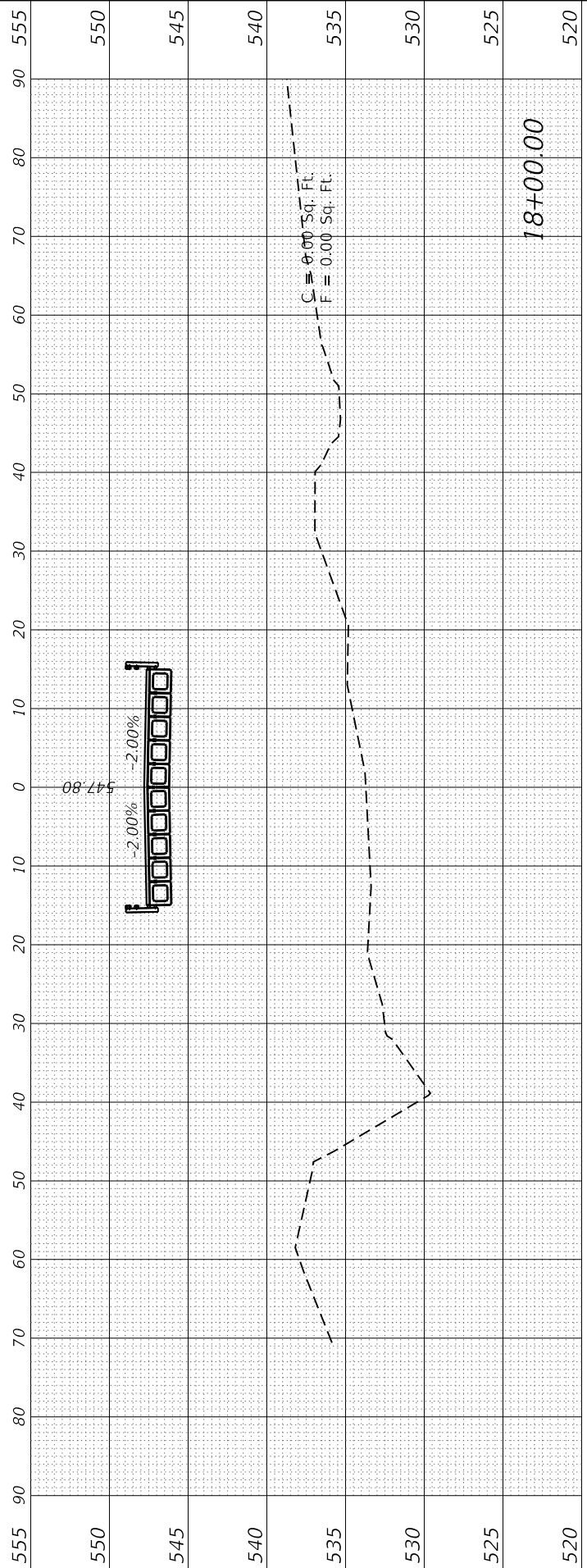
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 RED BALL TRAIL**

SCALE: SHEET 6 OF 9 SHEETS STA. 16+50.00 TO STA. 18+00.00

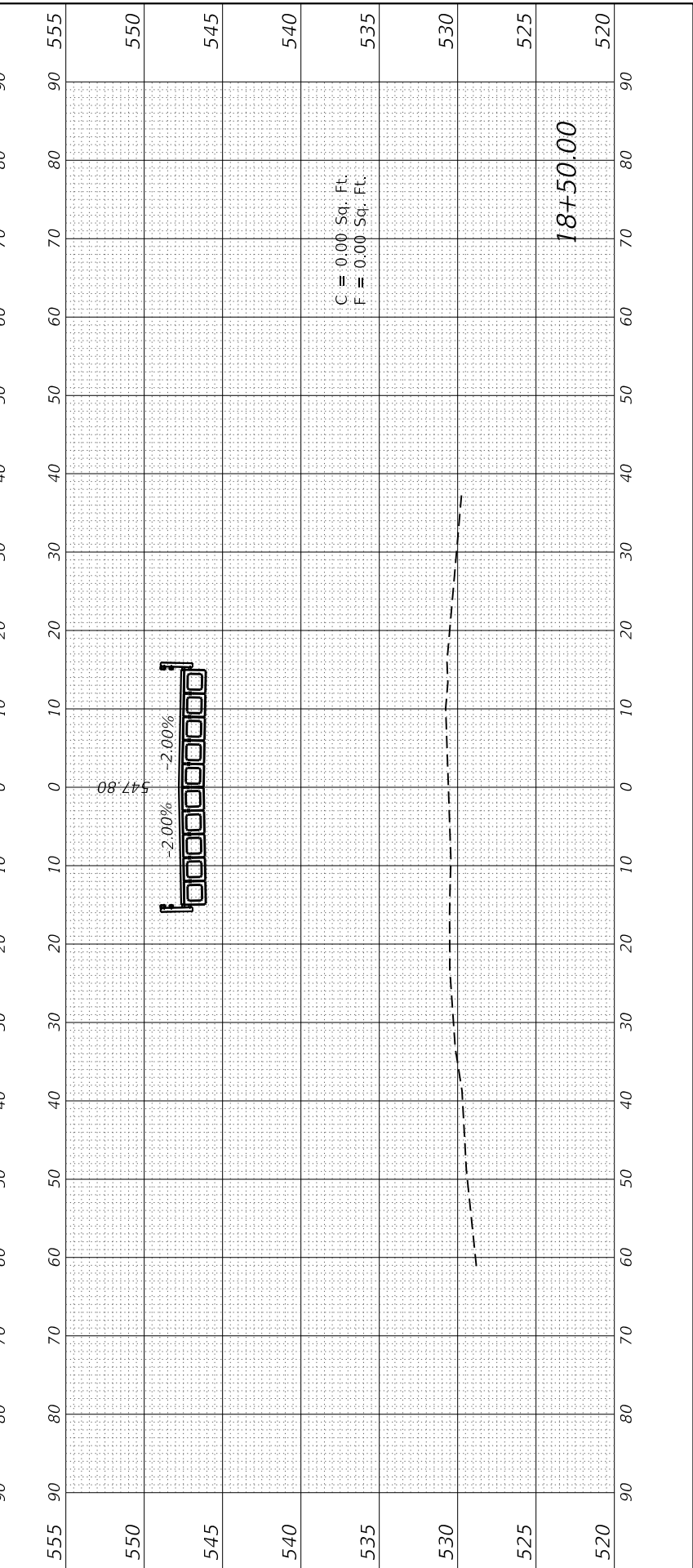
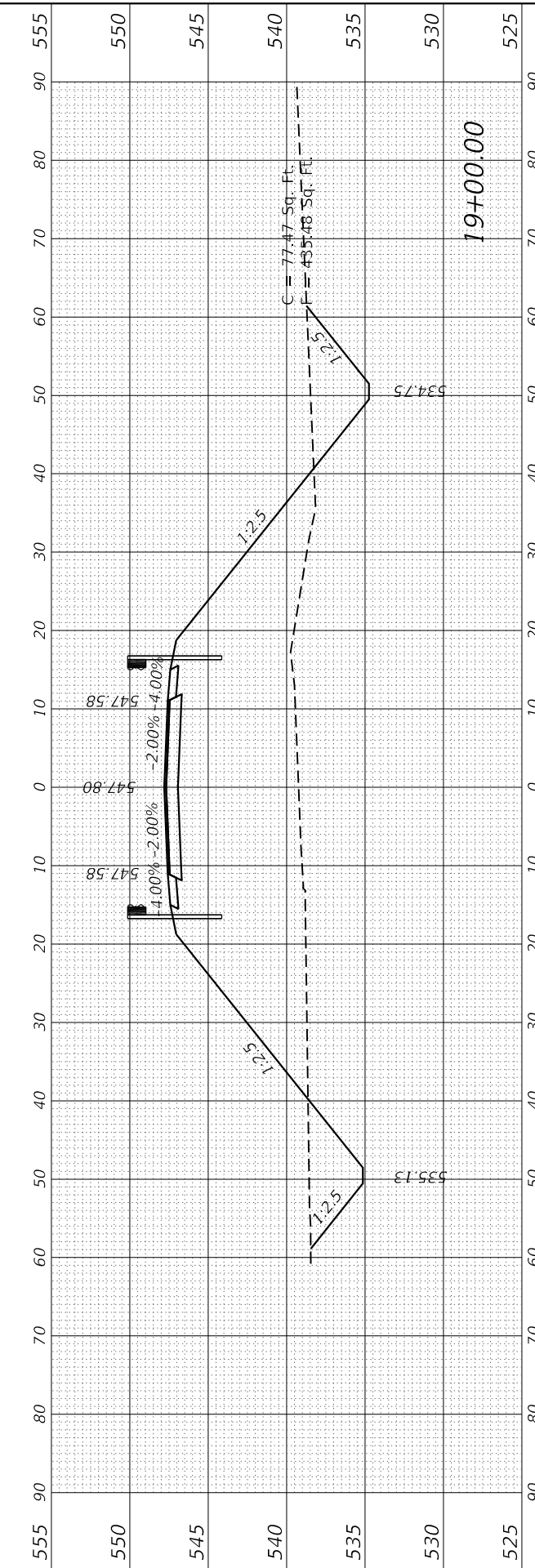
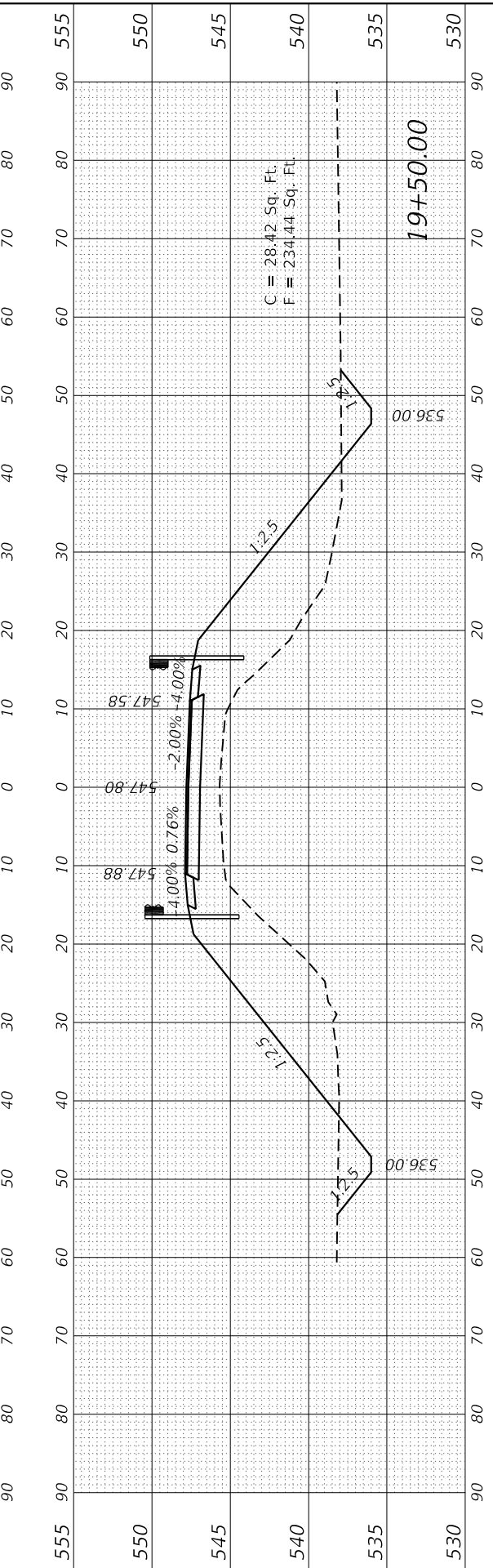
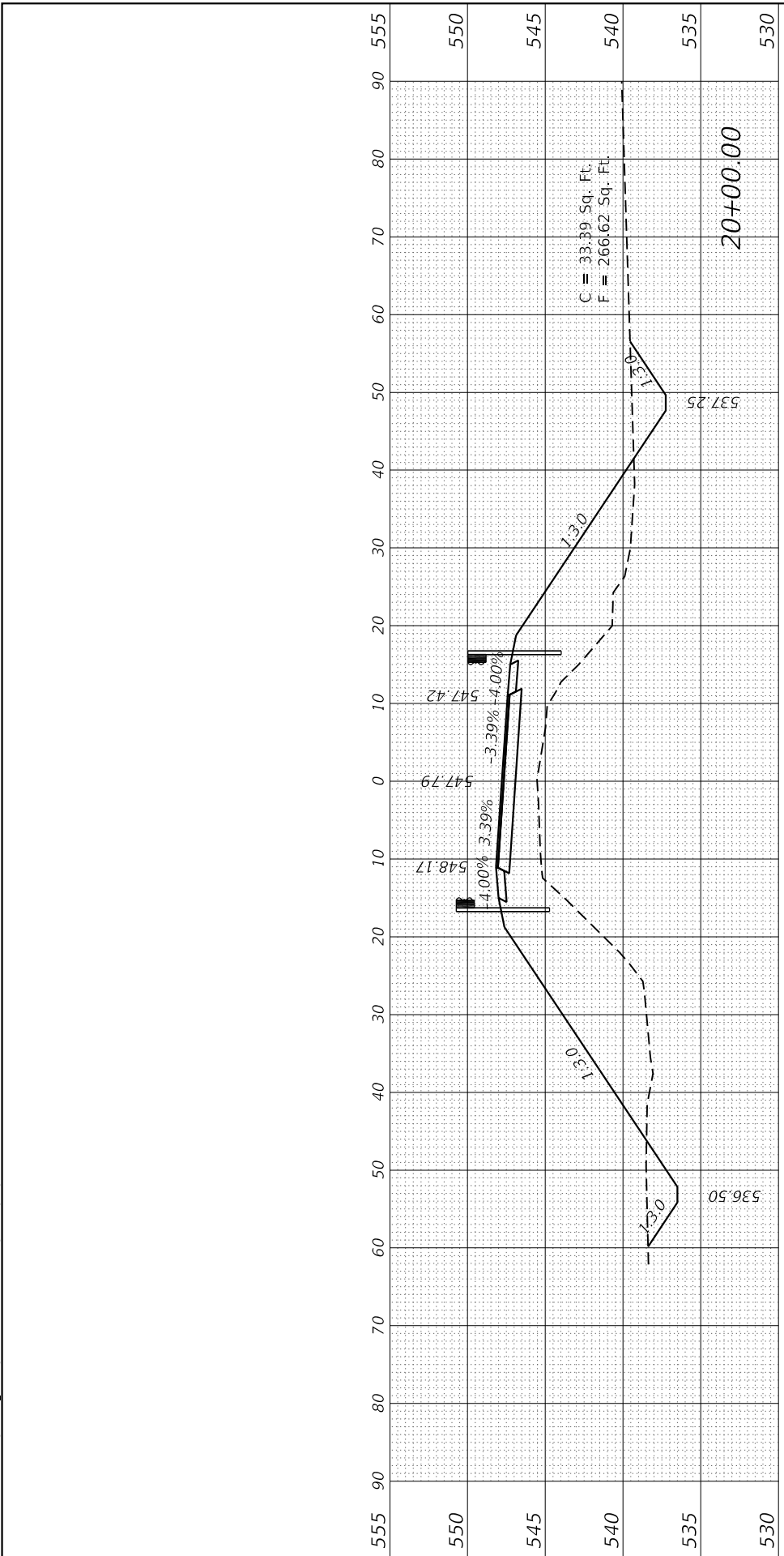
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	44
CONTRACT NO. 93778				
ILLINOIS		FED. AID PROJECT		



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

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

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PLOT DATE = 3/7/2022	CHECKED - ZDL	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 RED BALL TRAIL**

SCALE: SHEET 7 OF 9 SHEETS STA. 18+50.00 TO STA. 20+00.00

F.A.S. RTE. 1746	SECTION 15-00138-00-BR	COUNTY MONTGOMERY	TOTAL SHEETS 50	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93778	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 CHECKED - ZDL
 DATE -
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 3/7/2022

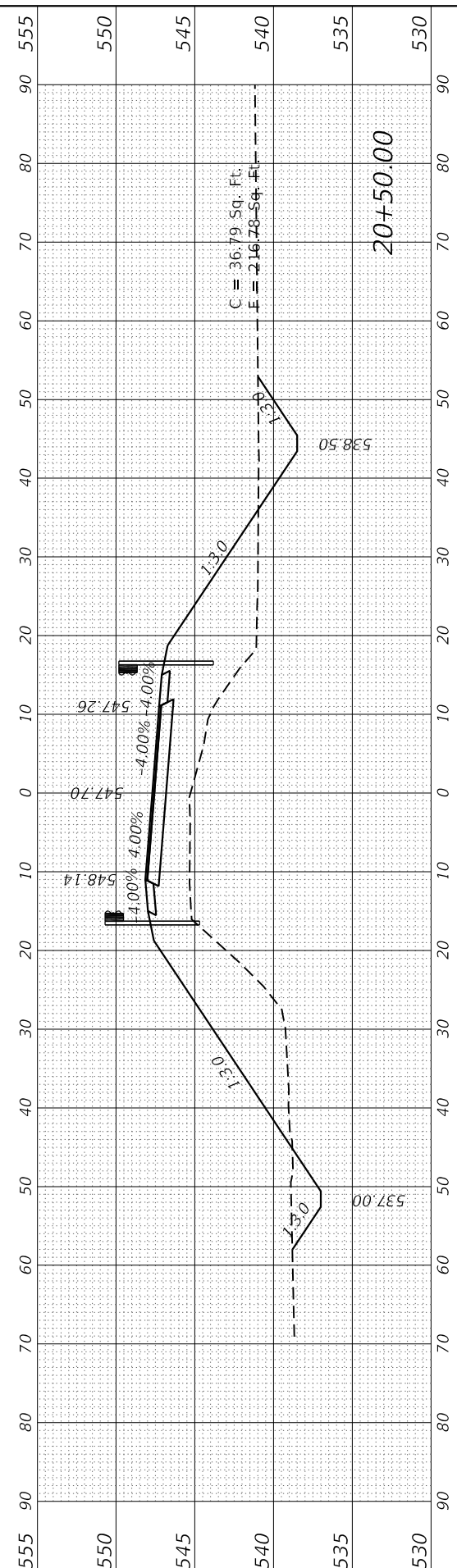
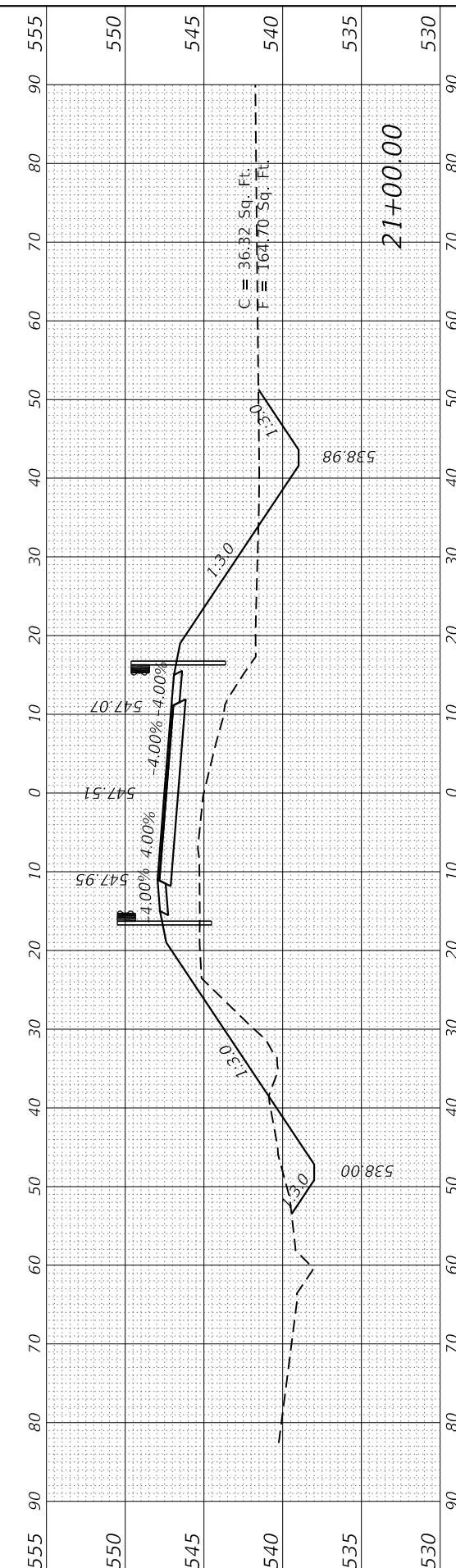
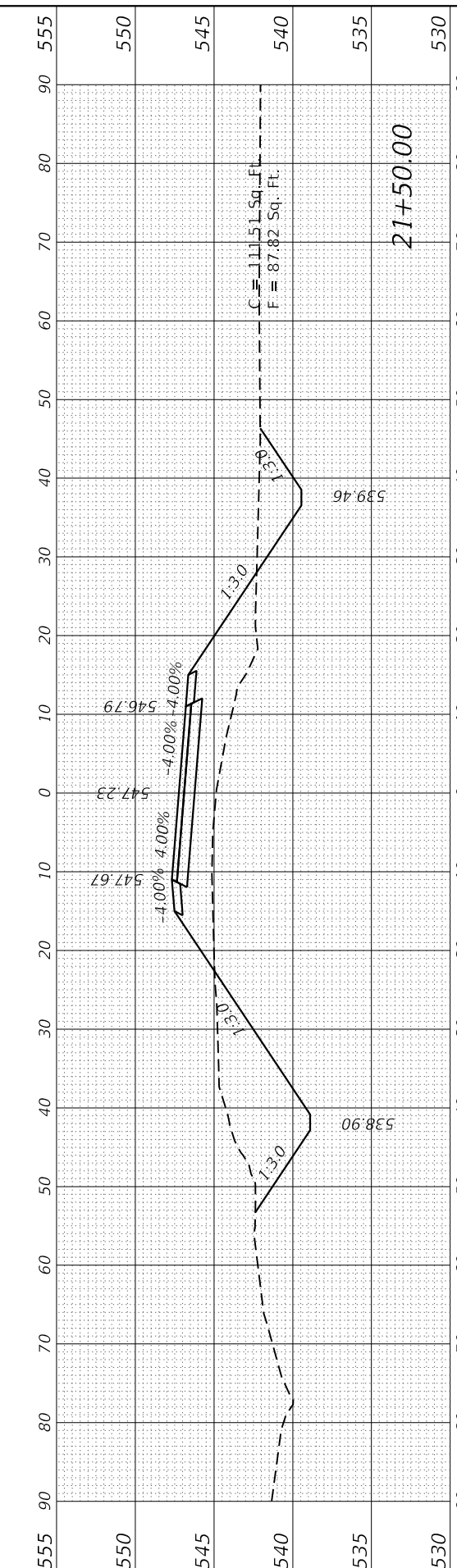
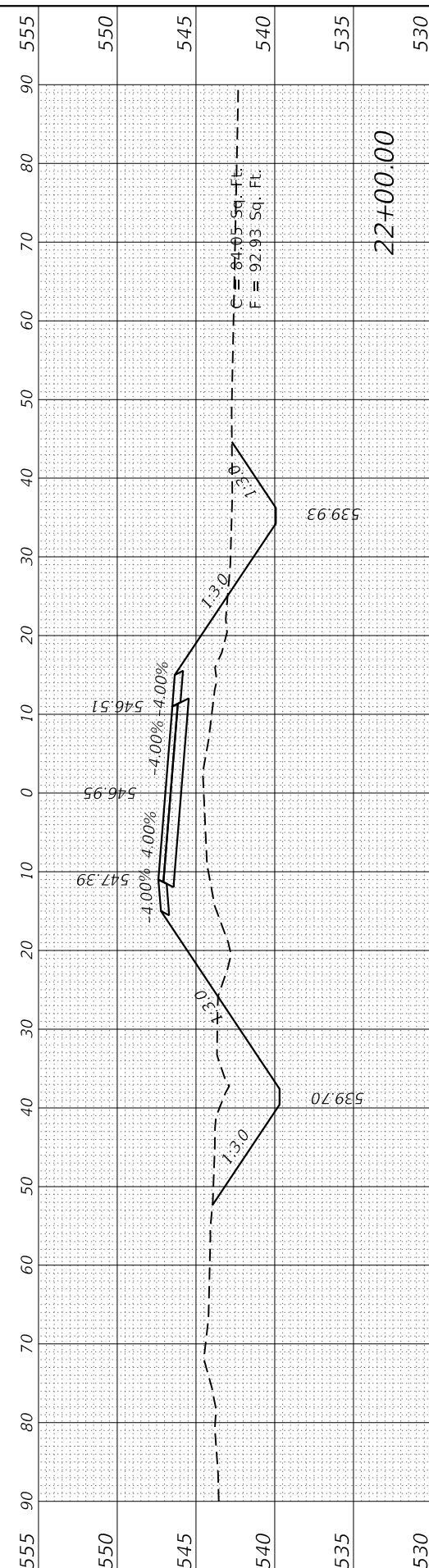
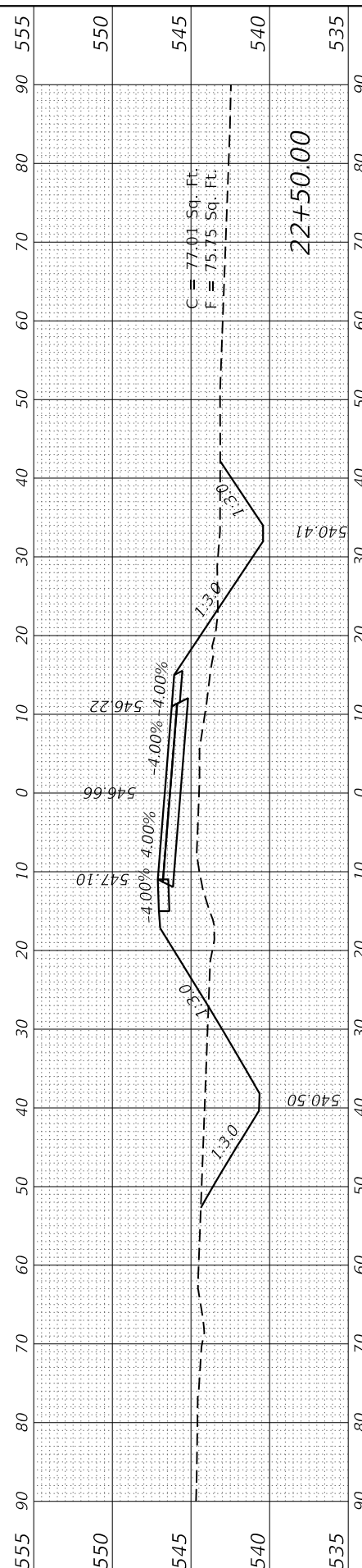
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 RED BALL TRAIL**

SCALE: SHEET 8 OF 9 SHEETS STA. 20+50.00 TO STA. 22+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	46
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



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

ORIGINAL SURVEY NO.	SURVEY PLOTTED	DATE
	TEMPLATE AREAS CHECKED	

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DATE - 3/7/2022

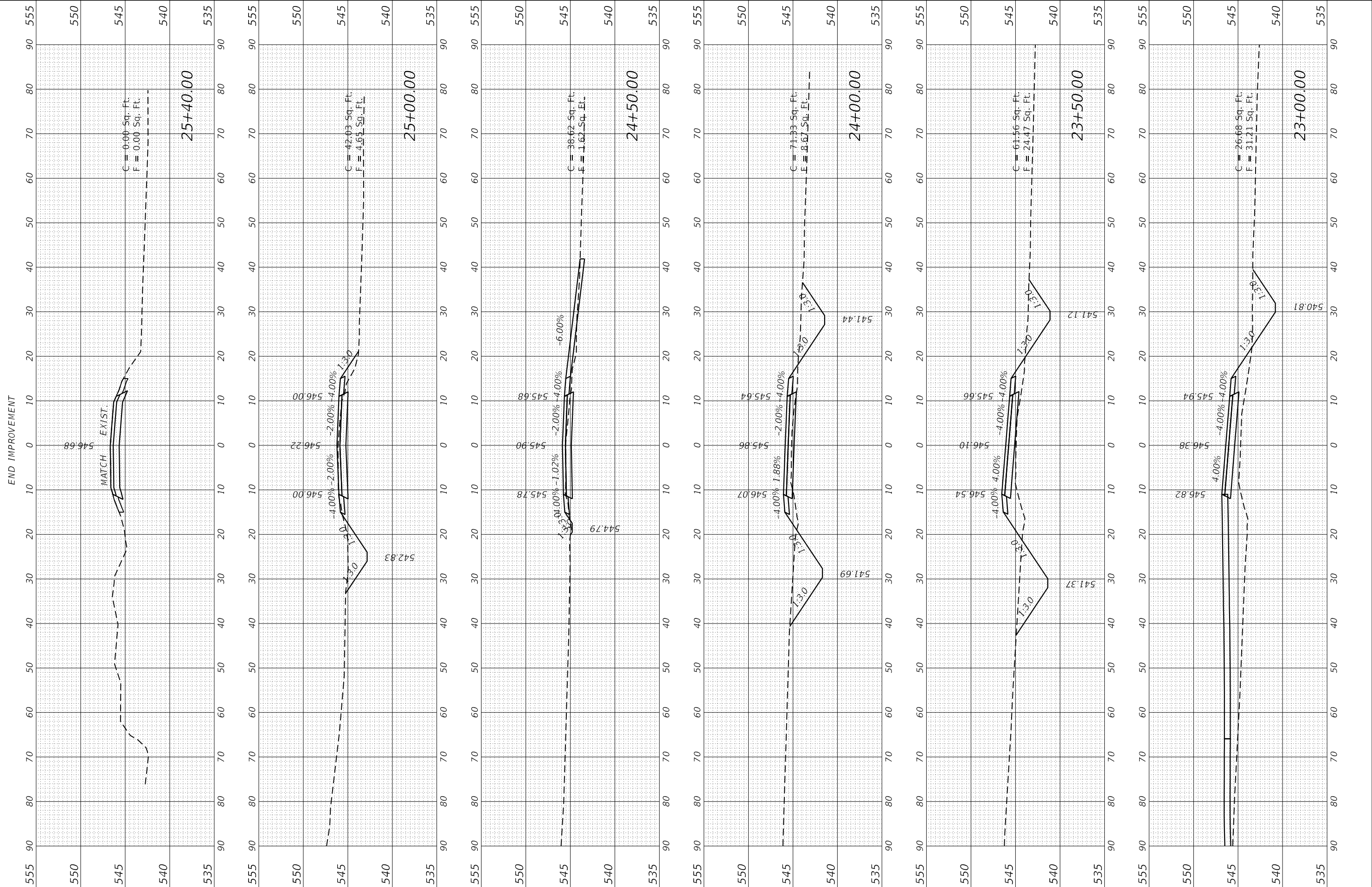
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REVISION NO. 1
DESCRIPTION
DATE

**STATE OF ILLINOIS
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**CROSS SECTIONS
RED BALL TRAIL**

SCALE: SHEET 9 OF 9 SHEETS STA. 23+00.00 TO STA. 25+50.00

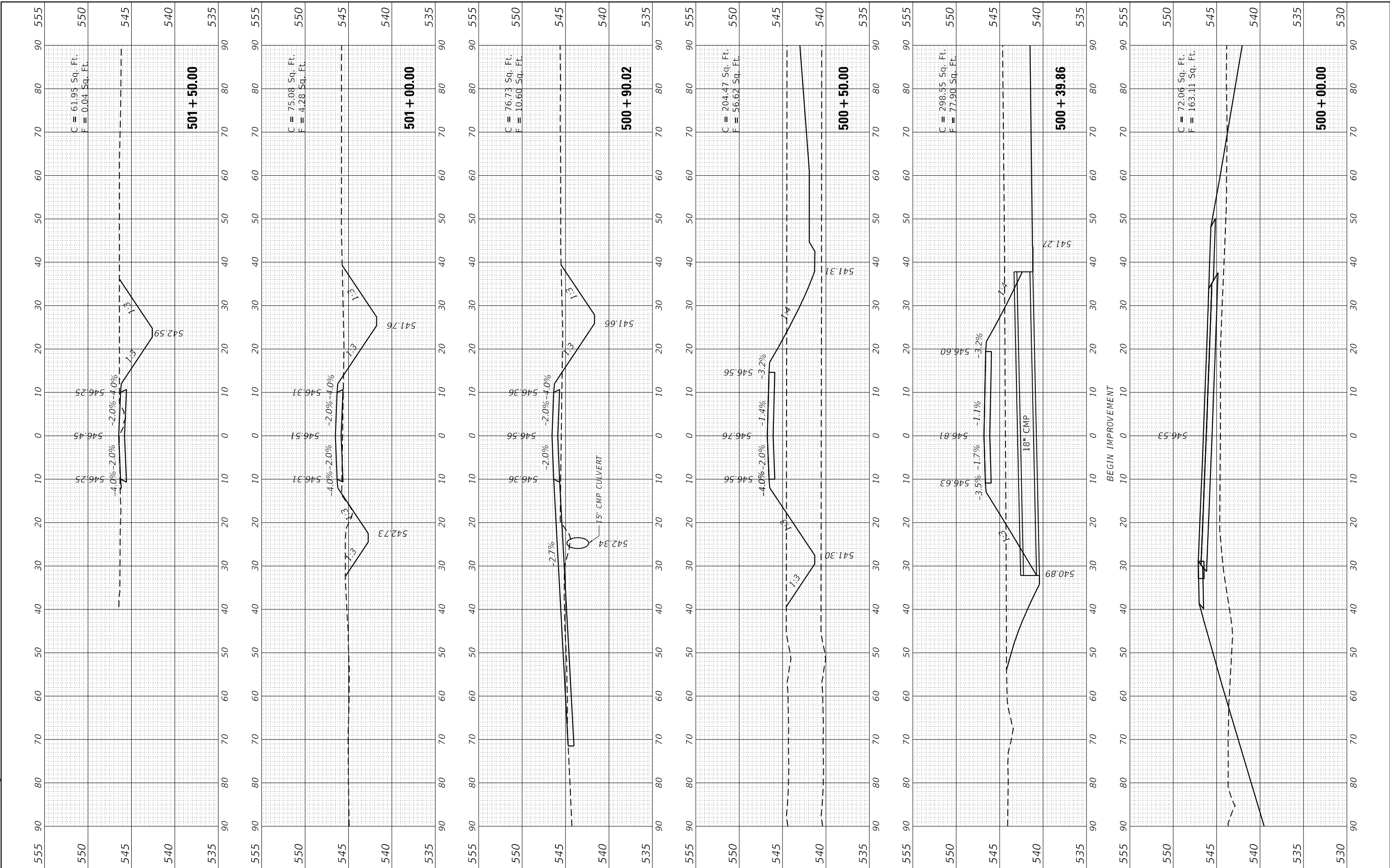
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1746	15-00138-00-BR	MONTGOMERY	50	47
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				



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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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PLOT DATE	= 3/7/2022

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REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 3RD AVENUE**

SCALE: SHEET 1 OF 3 SHEETS STA. 500+00.00 TO STA. 501+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	48
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

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

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

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CHECKED	- ZDL
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PLOT DATE	= 3/7/2022

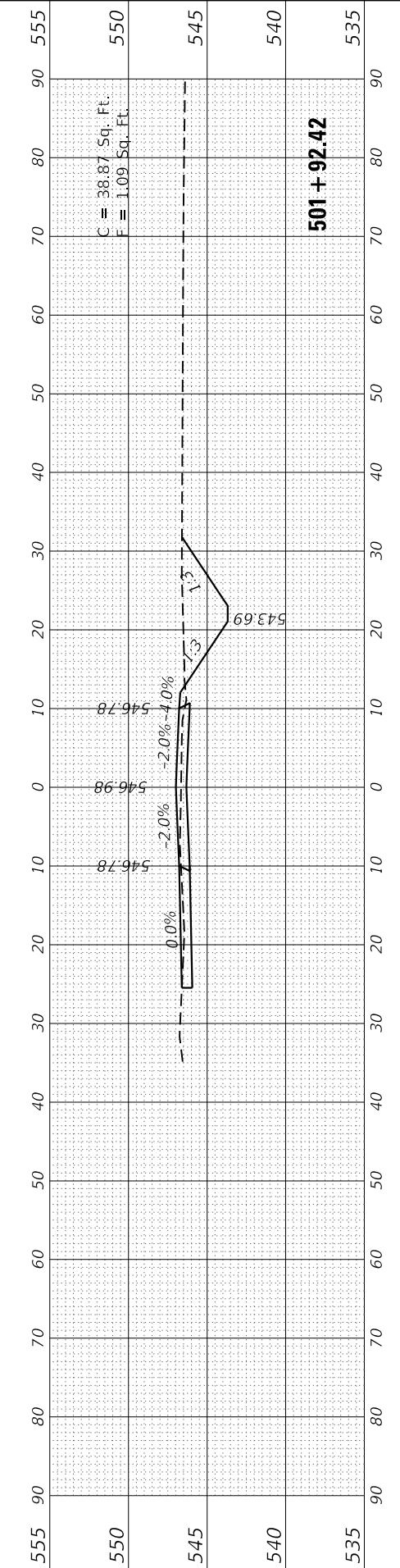
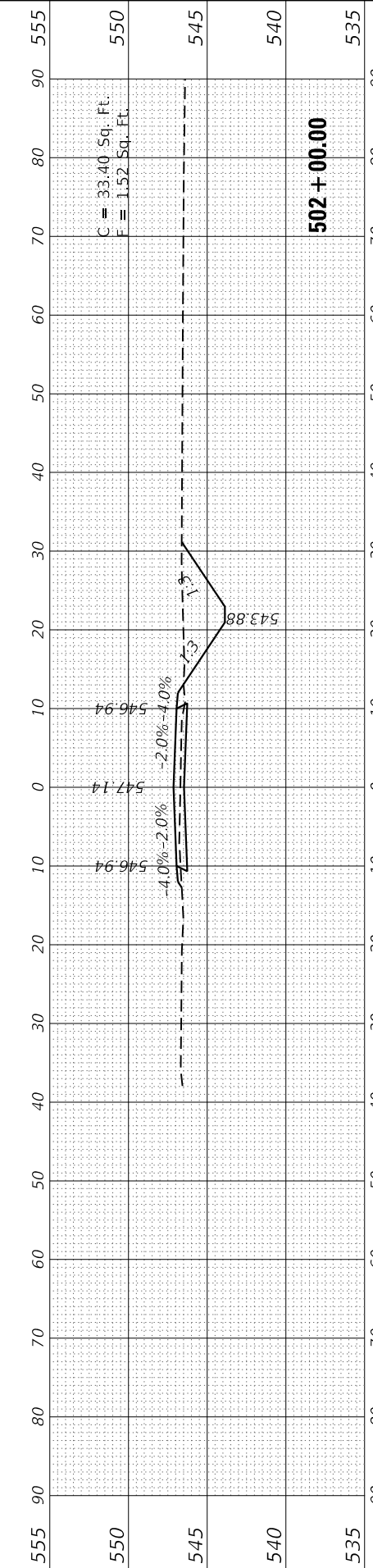
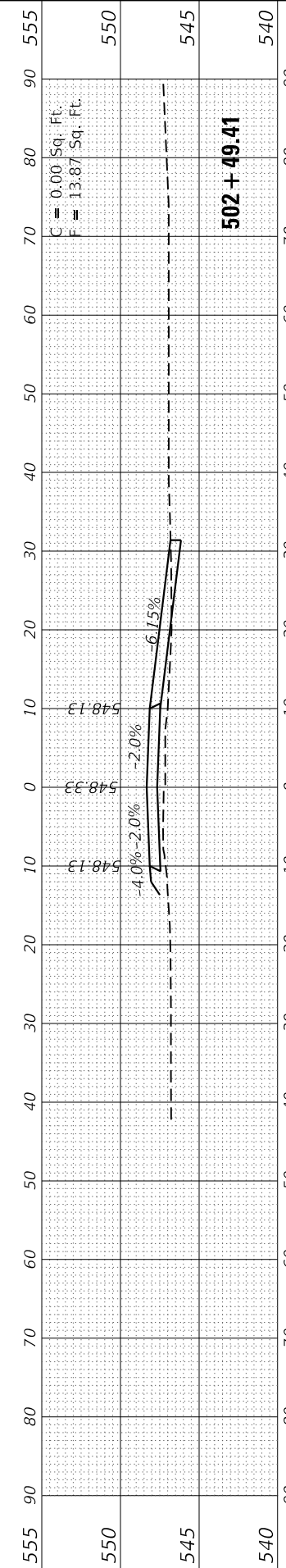
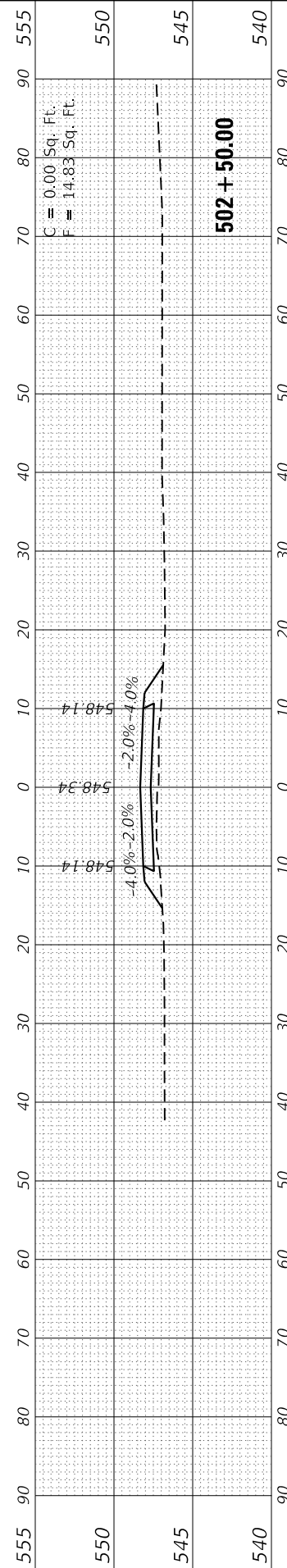
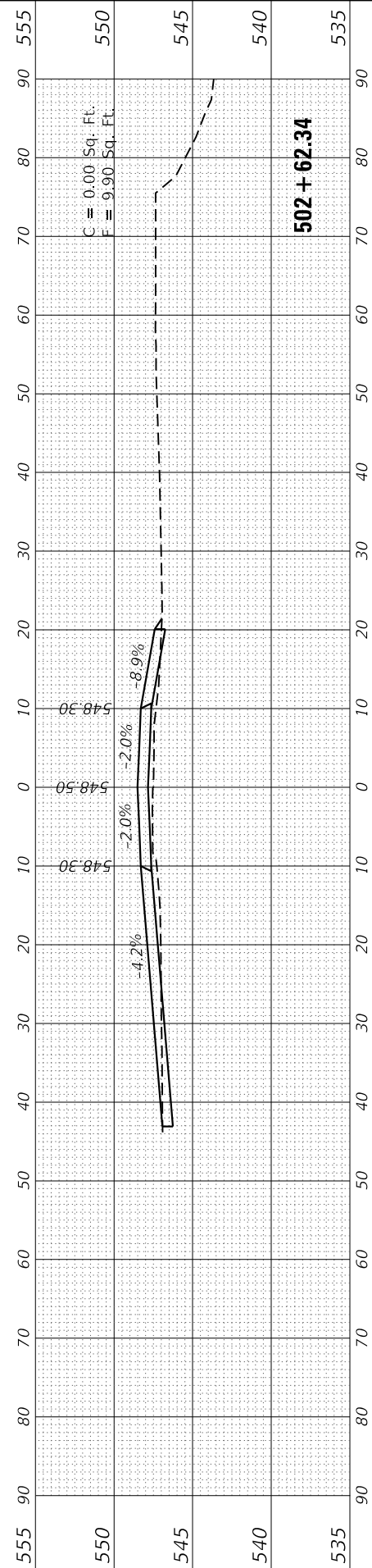
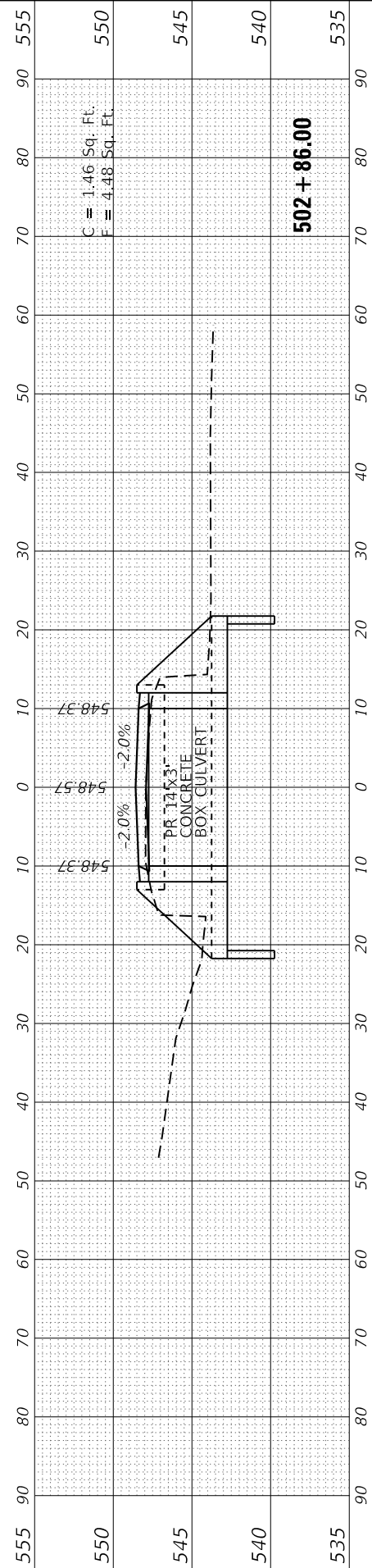
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REVISIONS	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 3RD AVENUE**

SCALE: SHEET 2 OF 3 SHEETS STA. 501+92.42 TO STA. 502+83.49

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	49
				CONTRACT NO. 93778
				ILLINOIS FED. AID PROJECT



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 3RD AVENUE**

SCALE: SHEET 3 OF 3 SHEETS STA. 503+00.00 TO STA. 503+29.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1746	15-00138-00-BR	MONTGOMERY	50	50
CONTRACT NO. 93778				
ILLINOIS FED. AID PROJECT				

