

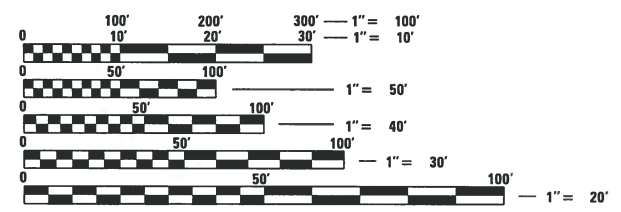
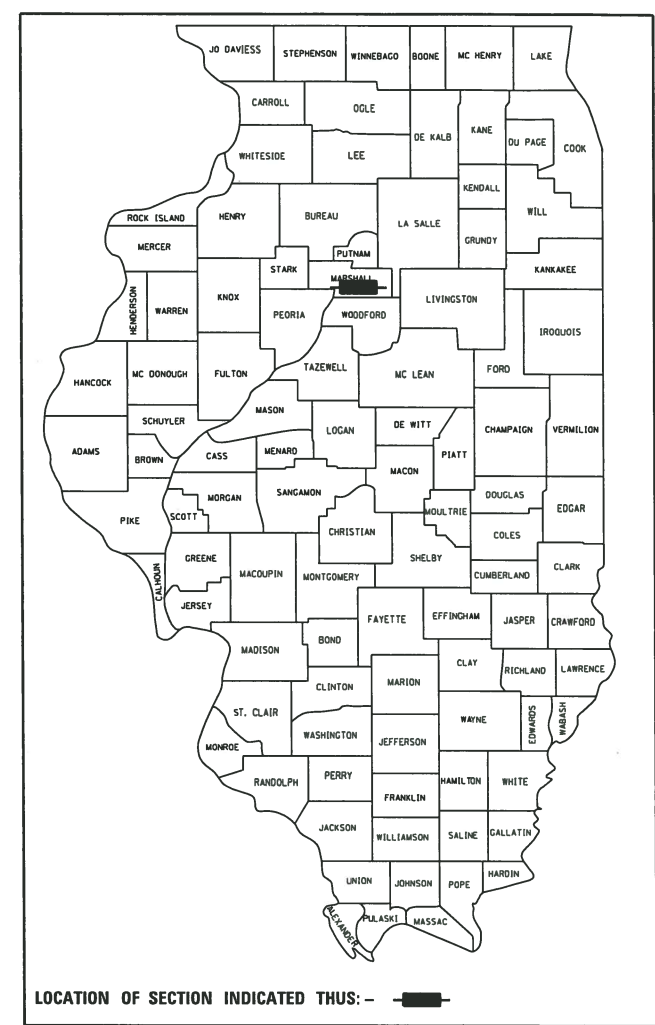
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00099-00-BR	MARSHALL	34	1
	ILLINOIS	CONTRACT NO. 89702		

INDEX OF SHEETS, SEE SHEET NO. 2
 LIST OF STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED COUNTY IMPROVEMENT

CH 3 OVER SOUTH BRANCH OF CROW CREEK
 SECTION 16-00099-00-BR
 PROJECT NO. U16W(957)
 MARSHALL COUNTY
 JOB NO. C-94-044-16

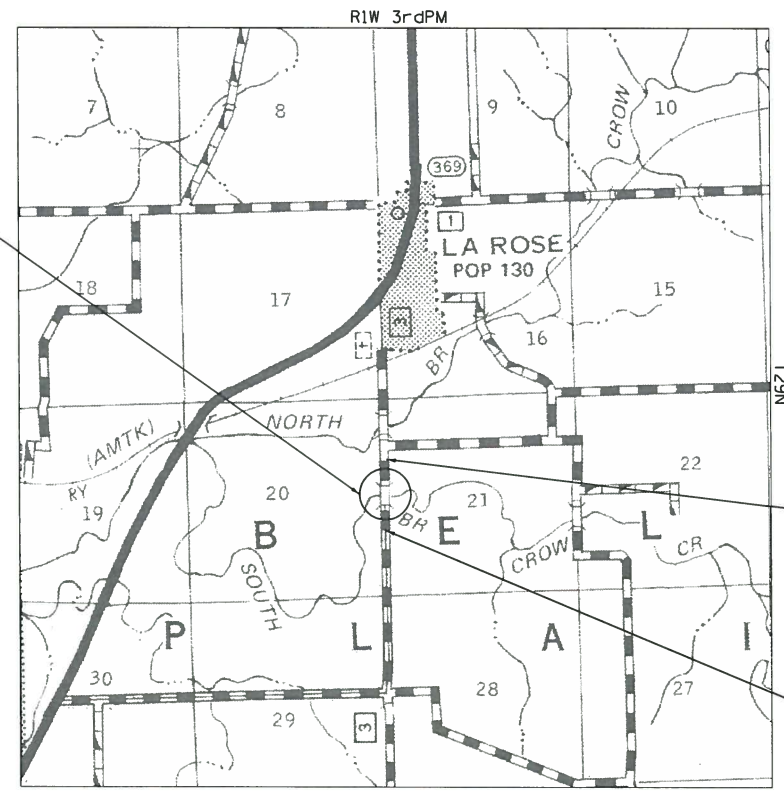


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER GEORGE MERKLE, P.E.
 PROJECT MANAGER RICK ANDERSON, P.E.

REPLACEMENT OF A FOUR SPAN DECK SLAB BRIDGE CARRYING CH 3 OVER SOUTH BRANCH OF CROW CREEK WITH A TWO SPAN DECK BEAM BRIDGE
 EXISTING SN 062-3761
 PROPOSED SN 062-3762
 STA. 47+63.50



IMPROVEMENT ENDS
 STA 51+54.00
 IMPROVEMENT BEGINS
 STA 44+82.50

LOCATION MAP
 ROADWAY CLASSIFICATION
 CH 3 OVER SOUTH BRANCH OF CROW CREEK - LOCAL ROAD (RURAL)
 ADT 150 (2014) - 85% PV, 15% TRUCKS
 DESIGN SPEED : 45 MPH
 DESIGN POLICY : NEW CONSTRUCTION/RECONSTRUCTION
 GROSS LENGTH = 671.5 FT. = 0.13 MILES
 NET LENGTH = 671.5 FT. = 0.13 MILES
 VARIANCES: CURVED GUARDRAIL
 COMMITMENTS: NONE

MAURER-STUTZ
 ENGINEERS SURVEYORS
 3116 DRIES LN STE 100
 PEORIA, ILLINOIS 61604
 PH. (309) 693-7615
 FAX (309) 693-7616
 PROFESSIONAL DESIGN FIRM #184-005754

CATALOG NO. 035384-00
 CONTRACT NO. 89702

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED Oct. 25, 2017 (date)
Pat L S
 Marshall County Engineer

PASSED NOV. 06, 2017 (date)
[Signature]
 District 4 Engineer of Local Roads & Streets

RELEASING FOR BID BASED ON LIMITED REVIEW November 6, 2017 (date)
[Signature]
 Region 3 Engineer

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

George B Merkle
 George B. Merkle, PE 10/25/2017
 PE No. 042917
 Exp. Date 11/30/2019

INDEX OF SHEETS

1	COVER
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	SCHEDULE OF QUANTITIES
6	ALIGNMENT, TIES, AND BENCHMARKS
7	TYPICAL SECTIONS
8	REMOVAL PLAN
9	PLAN AND PROFILE
10-24	STRUCTURE PLANS
25-26	GUARDRAIL DETAIL
27	ENTRANCE DETAIL
28	SLOPE STEPS DETAIL
29-34	CROSS SECTIONS

LIST OF STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF INCH & FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15'
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY
701901-07	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL

GENERAL NOTES

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED APRIL 1, 2016 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2018 SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED WORK EXCEPT AS MODIFIED BY THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

ALL EXISTING SURROUNDING AREA AND PROPERTY SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDAAMAGED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

THE SUMMARY OF QUANTITIES HAS BEEN PROVIDED FOR THE CONTRACTOR'S REFERENCE. CONTRACTOR IS ALERTED TO THE FACT THAT THESE NUMBERS ARE ESTIMATES AND IT IS RECOMMENDED THAT THE CONTRACTOR VERIFY QUANTITIES PRIOR TO ORDERING MATERIALS.

EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 OF THE I.D.O.T. STANDARD SPECIFICATIONS, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNER WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

EXISTING ROAD SIGNS THAT INTERFERE WITH THE CONSTRUCTION WILL BE RELOCATED AS DIRECTED BY THE ENGINEER OR OWNER. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED. SIGN REMOVAL, STORAGE AND RELOCATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED.

EROSION CONTROL IS A REQUIREMENT OF THIS PROJECT. ANY FINES OR PENALTIES LEVIED AGAINST THIS PROJECT FOR NONCOMPLIANCE WILL BE BORNE SOLELY BY THE CONTRACTOR.

PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, AND OTHER EROSION CONTROL ITEMS SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AS NEEDED.

THE FINAL 4 INCHES OF BACKFILL OR SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE "A" HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE EARTH EXCAVATION.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Uses(s):	1.5" Surface Course	2.5" Binder Course
AC/PG:	PG 64-22	PG 64-22
Design Air Voids:	4% @ N=50	4% @ N=50
Mixture Composition: (gradation Mixture)	IL-9.5	IL-9.5
Friction Aggregate:	MIX C	N/A
Quality Management Program:	QCQA	QCQA

NOTE:

- Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.
- For design purposes, mixture weight for all mixes is determined to be 112.0 lbs/sqyd/in, unless otherwise notes.
- Sublot sizes for PFP and QCP mixes will be 1000 tons, unless otherwise agreed to by the Engineer and paving contractor.

BITUMINOUS MATERIALS (TACK COAT) APPLICATION RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	.08 LB/SQ FT
EXISTING PAVEMENT	.04 LB/SQ FT
FOG COAT (BETWEEN LIFTS)	.04 LB/SQ FT

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED

PLAN ELEVATIONS

ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON N.A.V.D. 88.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

SETTING OF SECTION CORNER MONUMENTATION

ALL SECTION CORNER LOCATION ON THIS PROJECT SHALL BE LOCATED AND VERIFIED BY A LICENSED LAND SURVEYOR PRIOR TO ANY REMOVAL WORK BEING PERFORMED. THE LAND SURVEYOR SHALL LOCATE THE EXISTING SECTION CORNERS THROUGH COURTHOUSE RESEARCH, PERSONAL KNOWLEDGE OR THROUGH THE ASSISTANCE OF LOCAL FIRMS PERFORMING LAND SURVEYING IN THE AREA. IF THE SECTION CORNER DOES NOT EXIST THROUGH EITHER ITS PHYSICAL LOCATION OR THROUGH TIES IN THE FIELD IT SHALL NOT BE RESET, THERE SHALL BE NO CALCULATING OF SECTION CORNERS ONTO A PROJECT REQUIRED.

ONCE THE PAVING AND STRIPING OPERATIONS HAVE BEEN PERFORMED THE SECTION CORNER SHALL BE RESET AT THE DIRECTION OF A LICENSED LAND SURVEYOR. IF ANY DIMENSIONS HAVE BEEN CHANGED, IT SHALL BE THE RESPONSIBILITY OF THE SURVEYOR TO FILE A NEW MONUMENT RECORD IN THE APPROPRIATE COURTHOUSE.

A COPY OF ALL DRAWINGS OR MONUMENT RECORDS PRODUCED FROM THIS PROJECT SHALL BE SENT TO THE CHIEF OF SURVEYS, ILLINOIS DEPARTMENT OF TRANSPORTATION, REGION THREE/DISTRICT FOUR, PEORIA, ILLINOIS.

THE SUPPLYING, DRILLING, SETTING OF DISKS, PROFESSIONAL SERVICES, LABOR AND ANY OTHER ADDITIONAL WORK REQUIRED TO PERFORM THIS WORK SHALL BE PAID FOR UNDER PAY ITEM FOR PERMANENT SURVEY MARKERS, TYPE I.

REFER TO HIGHWAY STANDARD 667101-02 FOR DETAILS.

COMMITMENTS

THERE ARE NO COMMITMENTS.

FILE NAME: \\s0101522716808.08\Marshall.CH_3_Crew_Creation\CADD\CADD_Sheets\016808-16-02-general construction

	USER NAME = codiox	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			3	16-00099-00-BR	MARSHALL	34	2	
PLOT SCALE = 2.0000' / 1" =	CHECKED -	REVISED -	SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 89702					
PLOT DATE = 11/7/2017	DATE -	REVISED -				ILLINOIS FED. AID PROJECT					

				CONSTR. CODE					CONSTR. CODE					CONSTR. CODE	
				BRIDGE REPLCMNT 0010					BRIDGE REPLCMNT 0010					BRIDGE REPLCMNT 0010	
ITEM CODE	ITEM	UNIT	TOTAL QUANTITY	ITEM CODE	ITEM	UNIT	TOTAL QUANTITY	ITEM CODE	ITEM	UNIT	TOTAL QUANTITY	ITEM CODE	ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (8 TO 15 UNITS DIAMETER)	UNIT	40	50200300	COFFERDAM EXCAVATION	CU YD	186	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1				
20200100	EARTH EXCAVATION	CU YD	345	50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	67100100	MOBILIZATION	L SUM	1				
20400800	FURNISHED EXCAVATION	CU YD	2655	50300225	CONCRETE STRUCTURES	CU YD	104.7	70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1				
25000300	SEEDING, CLASS 3	ACRE	0.75	50300265	SEAL COAT CONCRETE	CU YD	45.4	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	50300280	CONCRETE ENCASEMENT	CU YD	3.6	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	839				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	50300300	PROTECTIVE COAT	SQ YD	94	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16				
25000800	POTASSIUM FERTILIZER NUTRIENT	POUND	68	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	86.7	Z0013798	CONSTRUCTION LAYOUT	L SUM	1				
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	3294	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1649	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	128				
28000400	PERIMETER EROSION BARRIER	FOOT	777	50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2219	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	48				
28000500	INLET AND PIPE PROTECTION	EACH	2	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	41300	X6660117	REMOVE AND REERECT RIGHT OF WAY MARKERS	EACH	1				
28100107	STONE RIPRAP, CLASS A4	SQ YD	826	50901050	STEEL RAILING, TYPE SM	FOOT	282	X6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	1				
28200200	FILTER FABRIC	SQ YD	826	51201600	FURNISHING STEEL PILES HP12X53	FOOT	825	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	839				
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	1246	51202305	DRIVING PILES	FOOT	825								
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	28	51203600	TEST PILE STEEL HP12X53	EACH	3								
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2803	51204650	PILE SHOES	EACH	18								
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	429	51500100	NAME PLATES	EACH	1								
40602978	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50	TON	167	542C1063	PIPE CULVERTS, CLASS C, TYPE 2 18"	FOOT	124								
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	167	54262718	METAL FLARED END SECTIONS 18"	EACH	4								
44000100	PAVEMENT REMOVAL	SQ YD	792	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	435								
48101200	AGGREGATE SHOULDERS, TYPE B	TON	145	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1								
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3								
50105220	PIPE CULVERT REMOVAL	FOOT	122	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3								
50200100	STRUCTURE EXCAVATION	CU YD	57	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	7								

△ SPECIALTY ITEMS

FILE NAME = S:\217\2015\21716008.08 -Herschell CH 3 Cross-Creek\CAD\CADD\CADD_Sheets\0416008-1-182-quantity.dwg

	USER NAME = cadiaz	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / 1"	DRAWN -	REVISED -						3	16-00099-00-BR	MARSHALL	34	3
	PLOT DATE = 11/7/2017	CHECKED -	REVISED -						CONTRACT NO. 89702				
	DATE -	REVISED -			SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT		

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)				
LOCATION			UNIT	REMARKS
48+41.25	44.5'	LT	8.00	
49+00.35	46.1'	LT	10.00	
49+06.89	53.6'	LT	8.00	
49+08.30	44.6'	LT	14.00	
TOTAL			40.00	

25000300 SEEDING, CLASS 3				
LOCATION	To		ACRE	REMARKS
44+82.50	To	46+68.00	RT	0.15
44+82.50	To	46+98.00	LT	0.20
46+81.73	To	46+98.00	RT	0.02
48+29.00	To	51+54.00	RT	0.16
48+29.00	To	51+54.00	LT	0.15
TOTAL			0.68	ROUND TO NEAREST 0.25 ACRE

25000400 NITROGEN FERTILIZER NUTRIENT				
LOCATION	To		POUND	REMARKS
44+82.50	To	46+68.00	RT	13.35
44+82.50	To	46+98.00	LT	18.34
46+81.73	To	46+98.00	RT	1.61
48+29.00	To	51+54.00	RT	14.82
48+29.00	To	51+54.00	LT	13.12
TOTAL			61.25	ROUND TO 67.5 POUNDS

25000500 PHOSPHORUS FERTILIZER NUTRIENT				
LOCATION	To		POUND	REMARKS
44+82.50	To	46+68.00	RT	13.35
44+82.50	To	46+98.00	LT	18.34
46+81.73	To	46+98.00	RT	1.61
48+29.00	To	51+54.00	RT	14.82
48+29.00	To	51+54.00	LT	13.12
TOTAL			61.25	ROUND TO 67.5 POUNDS

25000600 POTASSIUM FERTILIZER NUTRIENT				
LOCATION	To		POUND	REMARKS
44+82.50	To	46+68.00	RT	13.35
44+82.50	To	46+98.00	LT	18.34
46+81.73	To	46+98.00	RT	1.61
48+29.00	To	51+54.00	RT	14.82
48+29.00	To	51+54.00	LT	13.12
TOTAL			61.25	ROUND TO 67.5 POUNDS

25100635 HEAVY DUTY EROSION CONTROL BLANKET				
LOCATION	To		SQ YD	REMARKS
44+82.50	To	46+68.00	RT	717.81
44+82.50	To	46+98.00	LT	986.40
46+81.23	To	46+98.00	RT	86.65
48+29.00	To	51+54.00	RT	797.04
48+29.00	To	51+54.00	LT	705.81
TOTAL			3293.71	

28000400 PERIMETER EROSION BARRIER				
LOCATION	To		FOOT	REMARKS
48+29.00	To	51+54.00	LT	386.71
48+29.00	To	51+54.00	RT	390.52
TOTAL			777.23	

28000500 INLET AND PIPE PROTECTION				
LOCATION			EACH	REMARKS
46+50.14		RT	1.00	
46+72.39		LT	1.00	
TOTAL			2.00	

35102400 AGGREGATE BASE COURSE, TYPE B 12"				
LOCATION	To		SQ YD	REMARKS
44+82.50	To	46+68.00		480.86
48+59.00	To	51+54.00		764.71
TOTAL			1245.56	

40200800 AGGREGATE SURFACE COURSE, TYPE B				
LOCATION	To		TON	REMARKS
46+74.36	To		RT	28.27
TOTAL			28.27	DEPTH = 6 INCHES

40600275 BITUMINOUS MATERIALS (PRIME COAT)				
LOCATION	To		POUND	REMARKS
44+82.50	To	46+68.00		1081.93
48+59.00	To	51+54.00		1720.59
TOTAL			2802.52	ON AGGREGATE

40600290 BITUMINOUS MATERIALS (TACK COAT)				
LOCATION	To		POUND	REMARKS
44+82.50	To	46+68.00		165.69
48+59.00	To	51+54.00		263.49
TOTAL			429.18	BETWEEN LIFTS

40602978 HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50				
LOCATION	To		TON	REMARKS
44+82.50	To	46+68.00		64.43
48+59.00	To	51+54.00		102.47
TOTAL			166.90	

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50				
LOCATION	To		TON	REMARKS
44+82.50	To	46+68.00	LT	38.31
48+59.00	To	51+54.00	RT	60.92
PROP STRUCTURE				68.00
TOTAL			167.22	

44000100 PAVEMENT REMOVAL				
LOCATION	To		SQ YD	REMARKS
44+82.50	To	46+95.16		497.29
50+25.00	To	51+54.00		294.37
TOTAL			791.67	

48101200 AGGREGATE SHOULDERS, TYPE B				
LOCATION	To		TON	REMARKS
44+82.50	To	46+68.00	RT	26.57
44+82.50	To	46+98.00	LT	28.73
48+29.00	To	51+54.00	RT	44.80
48+29.00	To	51+54.00	LT	45.29
TOTAL			145.38	

50105220 PIPE CULVERT REMOVAL				
LOCATION	To		FOOT	REMARKS
46+75.24	To	47+18.65	LT	43.50
46+45.74	To	47+24.31	RT	78.59
TOTAL			122.09	

542C1063 PIPE CULVERTS, CLASS C, TYPE 2 18"				
LOCATION	To		FOOT	REMARKS
46+50.14	To	47+24.31	RT	75.30
46+72.59	To	47+18.65	LT	48.42
TOTAL			123.72	

54262718 METAL FLARED END SECTIONS 18"				
LOCATION			EACH	REMARKS
46+50.14		43.98	RT	1.00
46+72.39		47.51	LT	1.00
47+18.65		33.22	LT	1.00
47+24.31		31.03	RT	1.00
TOTAL			4.00	

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2				
LOCATION			EACH	REMARKS
SE QUAD.				1.00
TOTAL			1.00	

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A				
LOCATION			EACH	REMARKS
SW QUAD.				1.00
NE QUAD.				1.00
NW QUAD.				1.00
TOTAL			3.00	

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT				
LOCATION			EACH	REMARKS
SW QUAD.				1.00
NW QUAD.				1.00
NE QUAD.				1.00
TOTAL			3.00	

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS				
LOCATION			EACH	REMARKS
44+82.50		39.73'	RT	1.00
44+82.52		37.82'	LT	1.00
44+82.50		45.00'	RT	1.00
44+82.52		45.00'	LT	1.00
46+10.50		60.00'	LT	1.00
47+08.00		60.00'	LT	1.00
47+08.36		39.22'	LT	1.00
TOTAL			7.00	

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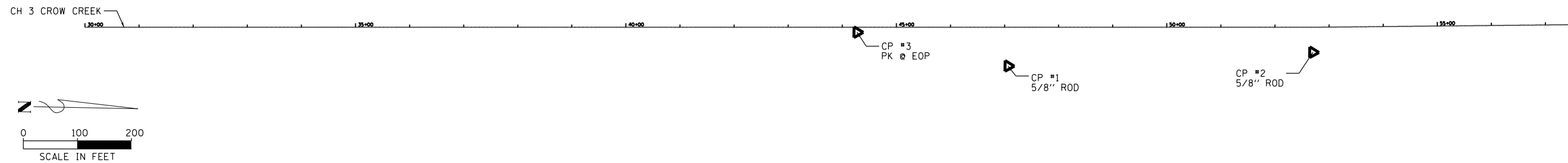
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	PLOT DATE = 11/7/2017	CHECKED -	REVISED -					CONTRACT NO. 89702					
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT					
								SHEET	OF	SHEETS	STA.	TO	STA.

66700205 PERMANENT SURVEY MARKERS, TYPE I				
LOCATION			EACH	REMARKS
46+57.36	0.57	LT	1.00	
TOTAL			1.00	
78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"				
LOCATION			FOOT	REMARKS
44+82.50	To	51+54.00	167.88	SKIP DASH
44+82.50	To	51+54.00	671.50	SOLID
TOTAL			839.38	
72501000 TERMINAL MARKER - DIRECT APPLIED				
LOCATION			EACH	REMARKS
SW QUAD.			1.00	
NE QUAD.			1.00	
NW QUAD.			1.00	
TOTAL			3.00	
78200005 GUARDRAIL REFLECTORS, TYPE A				
LOCATION			EACH	REMARKS
SE QUAD.			4.00	
SW QUAD.			4.00	
NE QUAD.			4.00	
NW QUAD.			4.00	
TOTAL			16.00	
X6310088 TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)				
LOCATION			EACH	REMARKS
SE QUAD.			1.00	
TOTAL			1.00	
X6660117 REMOVE AND REERECT RIGHT OF WAY MARKERS				
LOCATION			EACH	REMARKS
46+57.31	39.74'	RT	1.00	REMOVE
46+58.43	62.95'	RT		REERECT
TOTAL			1.00	
X7830070 GROOVING FOR RECESSED PAVEMENT MARKING 5"				
LOCATION			FOOT	REMARKS
44+82.50	To	51+54.00	167.88	SKIP DASH
44+82.50	To	51+54.00	671.50	SOLID
TOTAL			839.38	

LOCATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA. 44+82.50 TO STA. 46+98.00	298.84	224.13	986.00	-761.87
BRIDGE OMISSION				
STA. 48+29.00 TO STA. 51+54.00	42.38	31.78	1923.56	-1891.77
TOTAL	341.22	255.92	2909.56	-2653.64

EARTHWORK SUMMARY			
20200100	EARTH EXCAVATION	345	CU YD
20400800	FURNISHED EXCAVATION	2655	CU YD

FILE NAME: \\S:\2016\2017\162025.00_Marshall.CH 3 Crew_Creek\CADD\CADD_Sheets\04162025-16-04-schedule.dgn



CHAIN RCLEMCH3A (COUNTY HIGHWAY 3)

Point WFECROW153 X 2,553,153.0920 Y 1,564,055.2620 Sta 30+00.0000

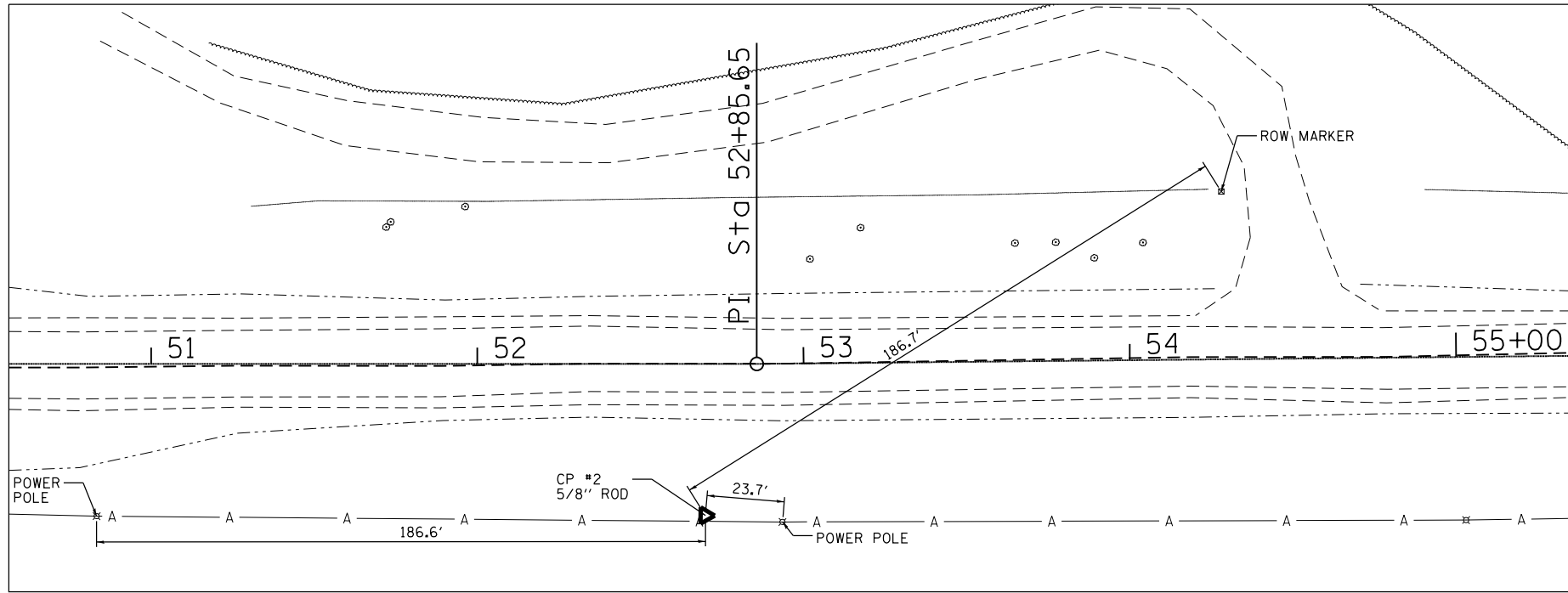
Course from WFECROW153 to WFECROW154 358° 53' 23.3829" Dist 2,285.6542

Point WFECROW154 X 2,553,108.8076 Y 1,566,340.4872 Sta 52+85.6542

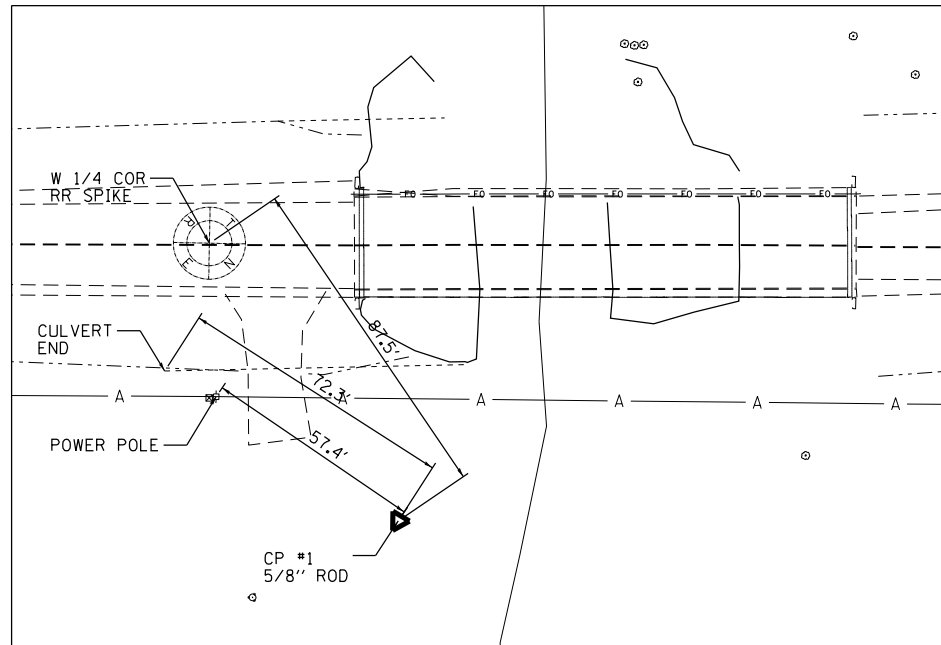
Course from WFECROW154 to WFECROW155 358° 19' 21.3992" Dist 463.5727

Point WFECROW155 X 2,553,095.2380 Y 1,566,803.8613 Sta 57+49.2270

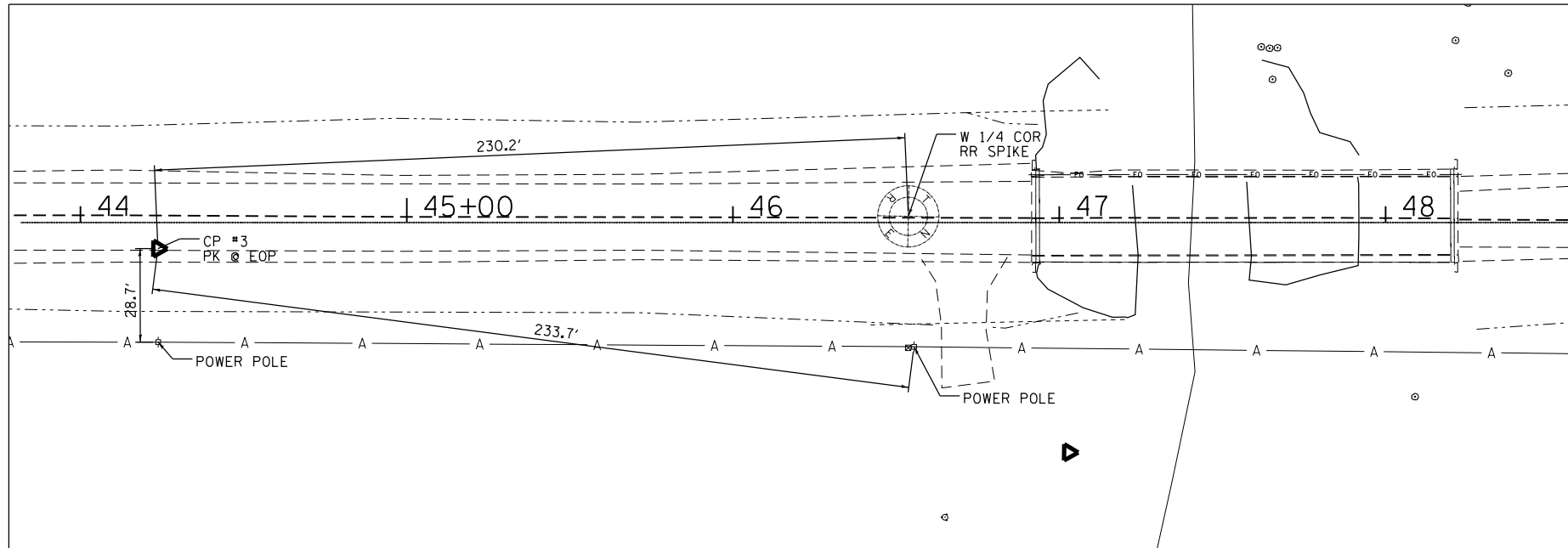
ALIGNMENT DESCRIPTION



CONTROL POINT #2



CONTROL POINT #1



CONTROL POINT #3

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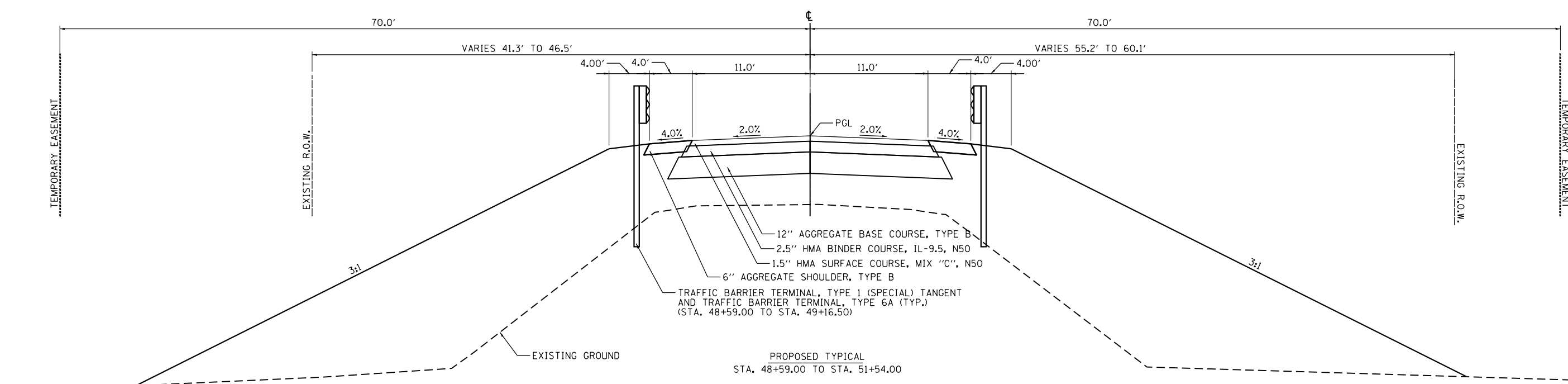
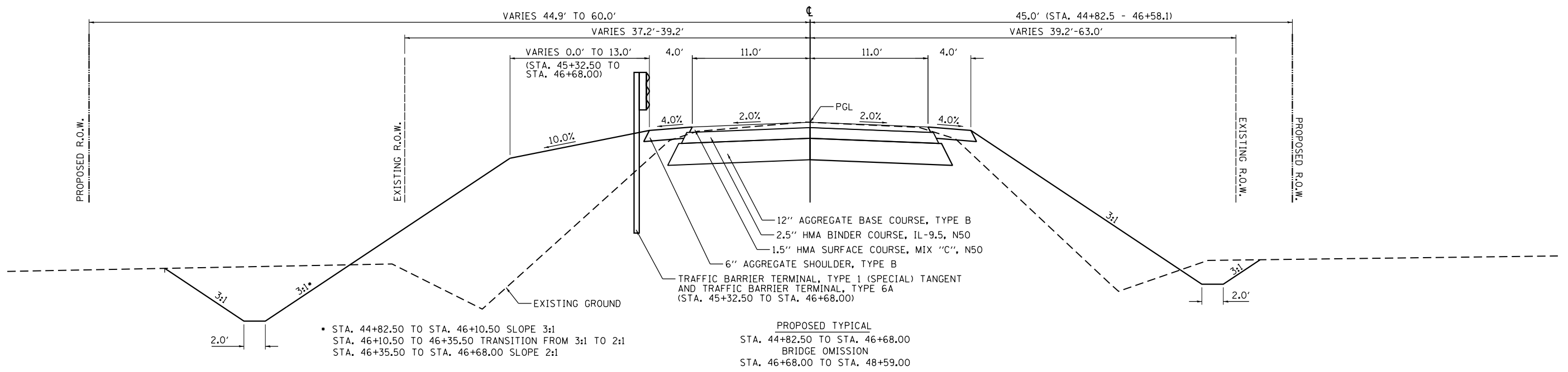
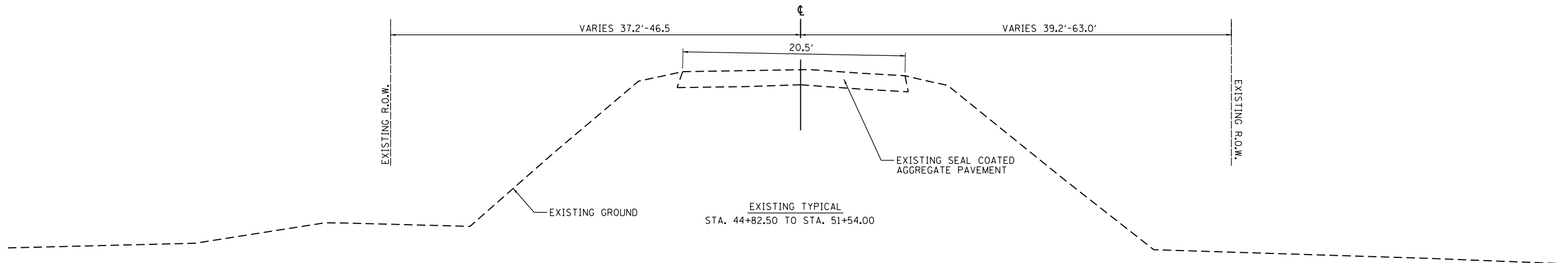
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SHEET OF SHEETS STA. TO STA.

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	6
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



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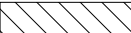

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		DATE -	REVISED -

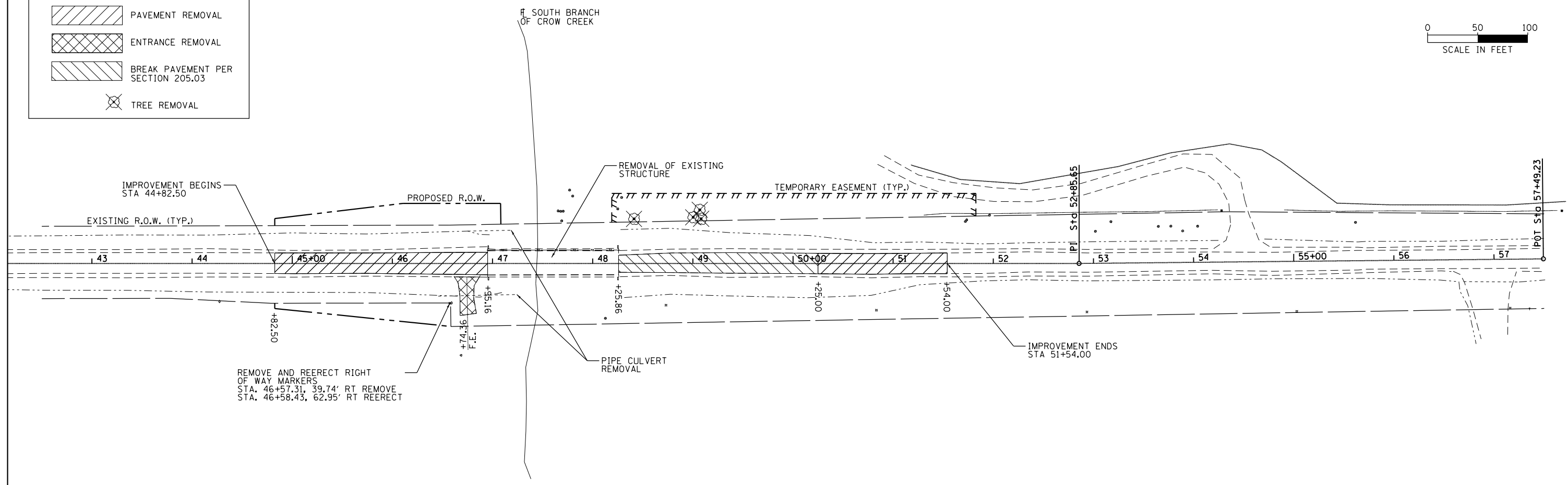
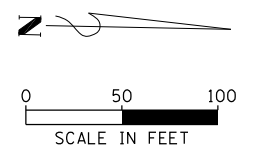
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SHEET	OF	SHEETS	STA. TO STA.

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	7
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL
-  ENTRANCE REMOVAL
-  BREAK PAVEMENT PER SECTION 205.03
-  TREE REMOVAL



FILE NAME: S:\2016\23716205.00 Marshall CH 3 Crow Creek\CADD\CADD Sheets\0416205-htr-removal.dgn



USER NAME = wlewis	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -
PLOT DATE = 10/26/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEET

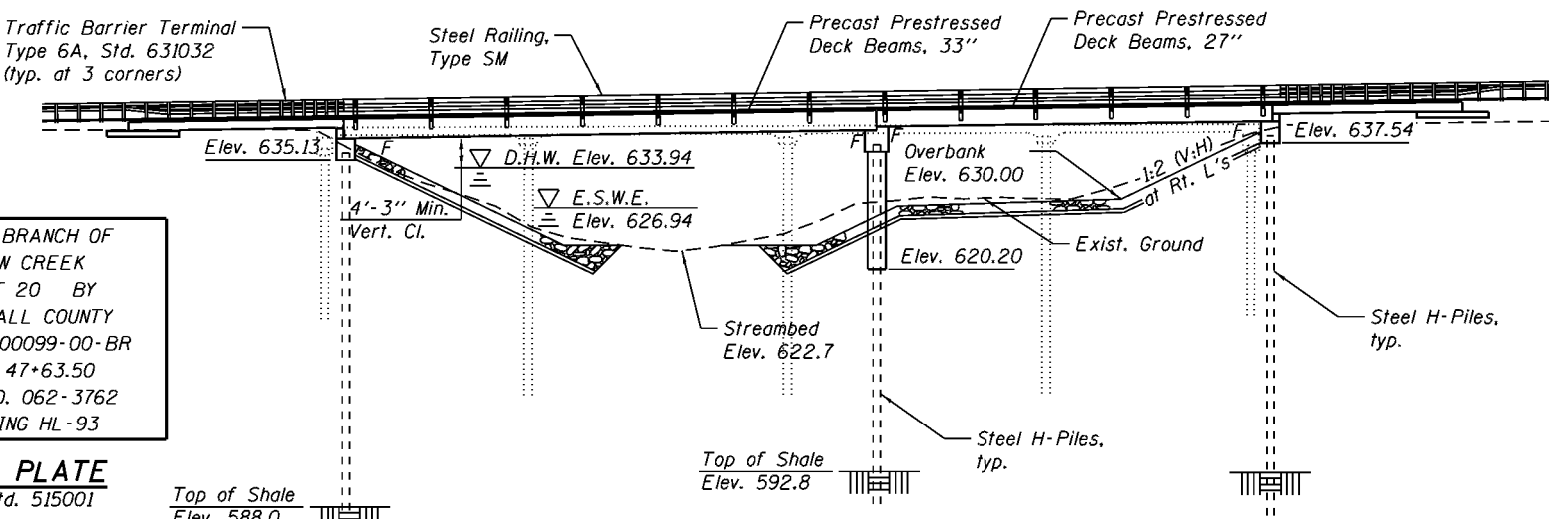
SHEET	OF	SHEETS	STA.	TO	STA.
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C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	8
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				

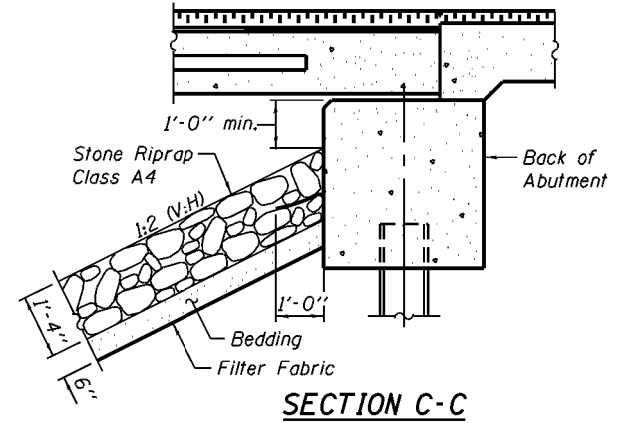
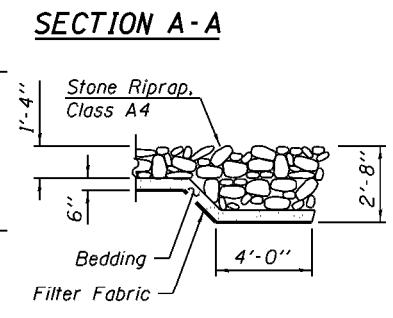
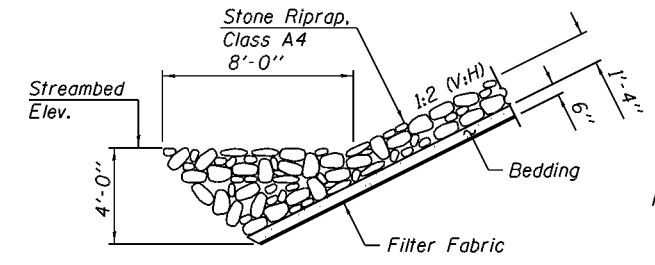
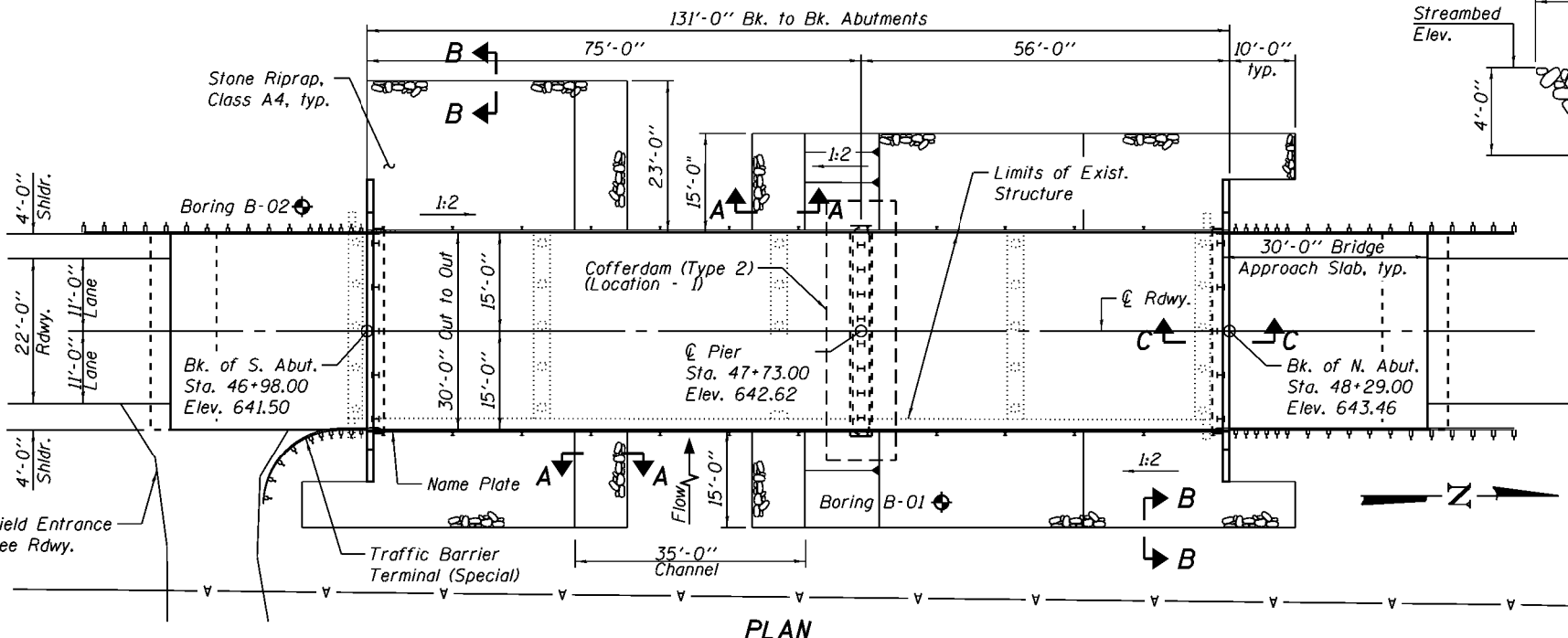
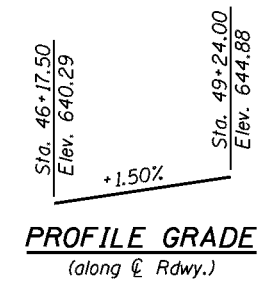
Bench Mark - Apex of ROW Marker in SE Quadrant of Bridge; Sta. 46+57 . 39.7' RT. Elev. 635.49
 Existing Structure - S.N. 062-3761: Built in 1958, the structure consists of a four span concrete deck slab on concrete pile bent piers and timber pile supported concrete abutments. The structure has been weight posted. The bridge is 131'-0" (bk. to bk. abuts) long and 28'-4" (out to out) wide with 24'-0" between the curbs. The structure is to be replaced during road closure.
 Salvage - None

SOUTH BRANCH OF CROW CREEK
 BUILT 20 BY MARSHALL COUNTY
 SEC. 16-00099-00-BR
 STA. 47+63.50
 STR. NO. 062-3762
 LOADING HL-93

NAME PLATE
 See Std. 515001



- INDEX OF SHEETS**
1. General Plan and Elevation
 2. Superstructure
 3. 27" x 36" PPC Deck Beam
 4. 27" x 36" PPC Deck Beam Details
 5. 33" x 36" PPC Deck Beam
 6. 33" x 36" PPC Deck Beam Details
 7. Steel Railing, Type SM
 - 8-9. Bridge Approach Slab Details
 10. South Abutment
 11. North Abutment
 12. Pier
 13. HP Pile Details
 - 14-15. Soil Borings

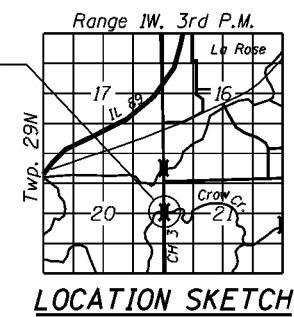


Event/Limit	Design Scour Elevations (ft.)			Item
	South Abut.	Pier	North Abut.	
State	635.1	606.7	637.5	5
Q100	635.1	606.5	637.5	
Q200	635.1	606.7	637.5	
Design	635.1	606.7	637.5	
Check	635.1	606.5	637.5	

WATERWAY INFORMATION

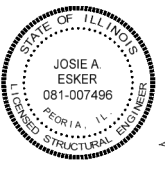
Drainage Area = 64.93 Sq. Mi. Low Grade Elev. 637.59 @ Sta. 39+25

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.			Headwater El.
			Exist.	Prop.		Exist.	Prop.	Exist.	
Ten-Year	10	3640	544	612	633.66	2.42	2.00	636.08	635.66
Design	15	4200	573	642	633.94	2.58	2.16	636.52	636.10
Base/Overtopping	100	6630	680/45	749	634.93	2.79	2.59	637.72	637.52
Max./Overtopping	500	8830	764/813	832/715	635.67	3.25	3.16	638.92	638.83



I certify that to the best of 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 Bridge Design Specifications.

Josie A. Esker
 Date Signed: 7-31-17
 Exp. Date: 11/30/2018



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		826	826
Filter Fabric	Sq. Yd.		826	826
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	68		68
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		57	57
Cofferdam Excavation	Cu. Yd.		186	186
Cofferdam (Type 2) (Location - 1)	Each		1	1
Concrete Structures	Cu. Yd.		104.7	104.7
Seal Coat Concrete	Cu. Yd.		45.4	45.4
Concrete Encasement	Cu. Yd.		3.6	3.6
Protective Coat	Sq. Yd.	73	21	94
Concrete Superstructure (Approach Slab)	Cu. Yd.	86.7		86.7
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1649		1649
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2219		2219
Reinforcement Bars, Epoxy Coated	Pound	29660	11640	41300
Steel Railing, Type SM	Foot	262		262
Furnishing Steel Piles HP12x53	Foot		825	825
Driving Piles	Foot		825	825
Test Pile Steel HP12x53	Each		3	3
Pile Shoes	Each		18	18
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	435		435
Granular Backfill for Structures	Cu. Yd.		48	48
Pipe Underdrain for Structures 4"	Foot		128	128

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

DESIGN SPECIFICATIONS

2016 Interim to AASHTO LRFD Bridge Design Specifications, 7th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 f'c = 4,000 psi (superstructure concrete)
 fy = 60,000 psi (Reinforcement)
PRECAST PRESTRESSED UNITS
 f'c = 6,000 psi
 f'ci = 5,000 psi
 fs = 270,000 psi (1/2" Strands)
 fsi = 201,960 psi (1/2" Strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.106
 Design Spectral Acceleration at 0.2 sec. (SD5) = 0.169
 Soil Site Class = D

GENERAL PLAN AND ELEVATION

C.H. 3 OVER SOUTH BRANCH OF CROW CREEK
SEC. 16-00099-00-BR
MARSHALL COUNTY
STA. 47+63.50
STRUCTURE NO. 062-3762

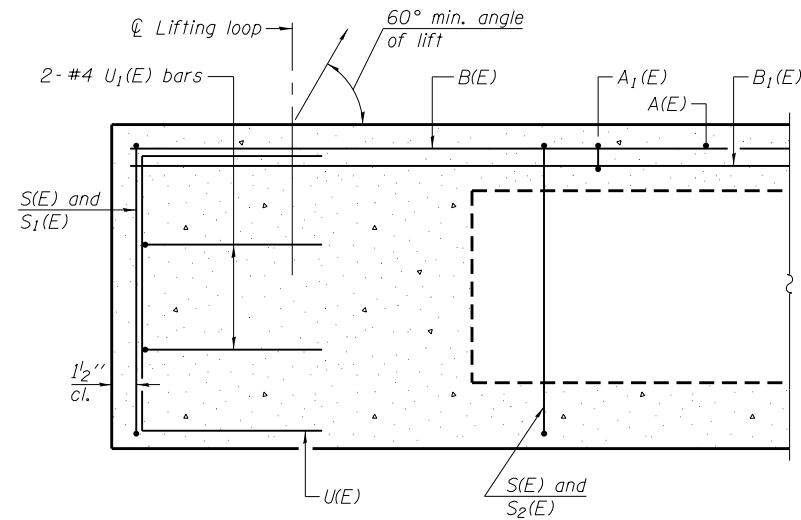


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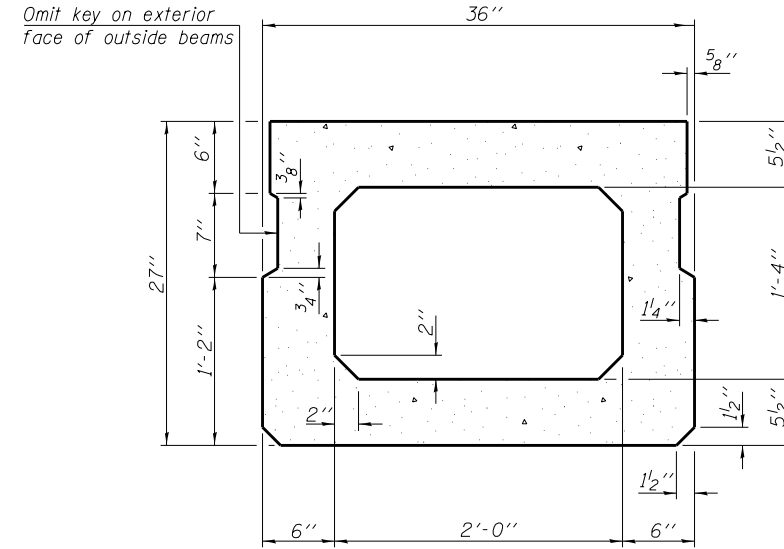
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	10

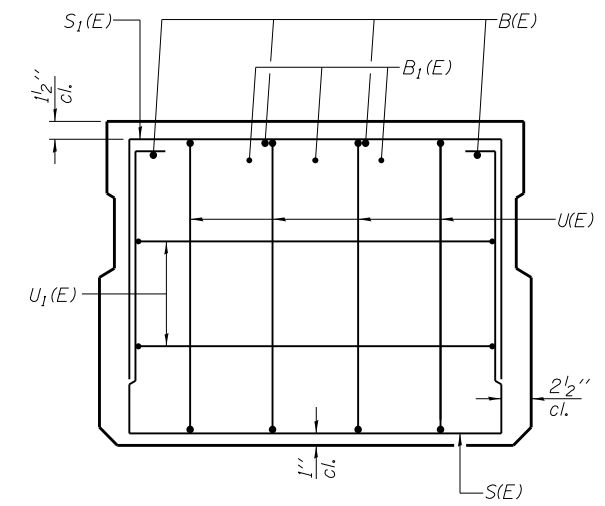
CONTRACT NO. 89702
 ILLINOIS FED. AID PROJECT



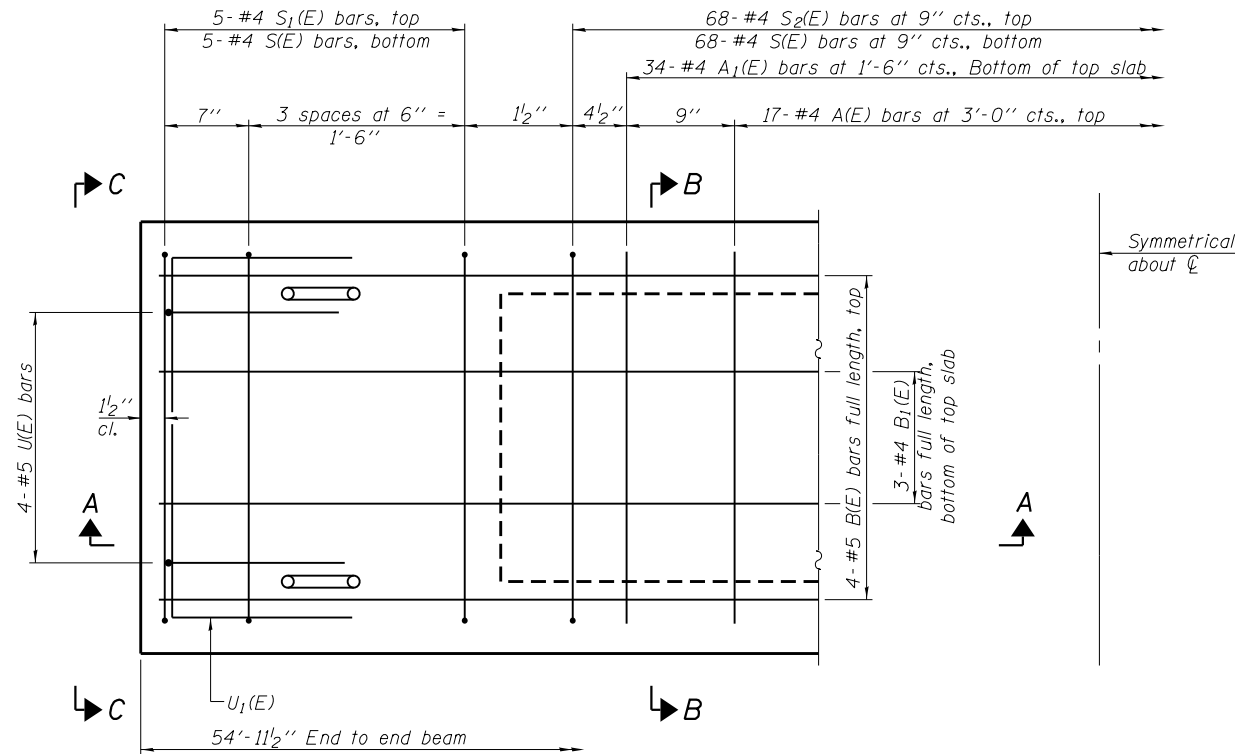
SECTION A-A



SECTION B-B
(Showing dimensions)

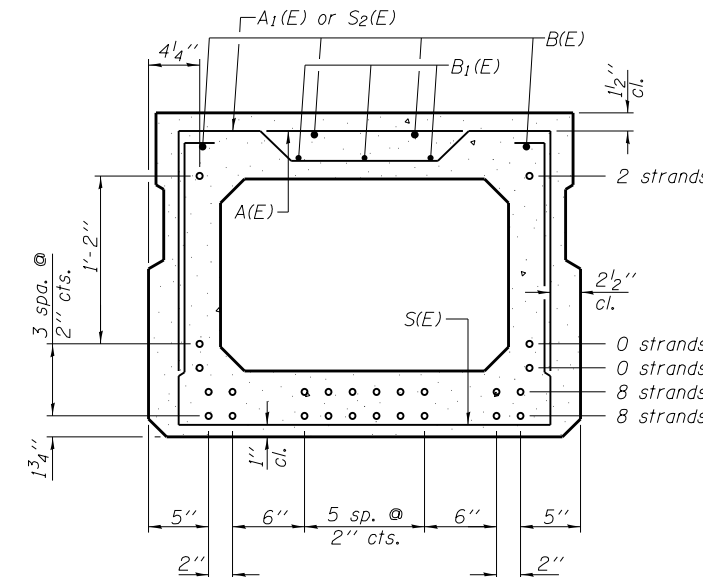


VIEW C-C



PLAN VIEW

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.



SECTION B-B
(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	17	#4	2'-7"	—
A ₁ (E)	34	#4	2'-10"	~
B(E)	8	#5	28'-7"	—
B ₁ (E)	9	#4	19'-6"	—
S(E)	78	#4	7'-5"	⌋
S ₁ (E)	10	#4	5'-11"	⌋
S ₂ (E)	68	#4	6'-2"	⌋
U(E)	8	#5	4'-6"	⌋
U ₁ (E)	4	#4	5'-0"	⌋

Note: See sheet 4 of 15 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

PD-2736-0

06-01-16

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MAURER-STUTZ
ENGINEERS SURVEYORS

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CHECKED - BAS
DRAWN - JAE
CHECKED - BAS
PLOT SCALE =
PLOT DATE = 10/26/2017

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REVISED -
REVISED -
REVISED -
REVISED -

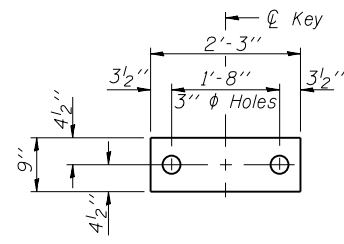
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM
STRUCTURE NO. 062-3762

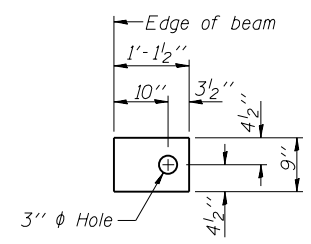
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C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89702				

ILLINOIS FED. AID PROJECT

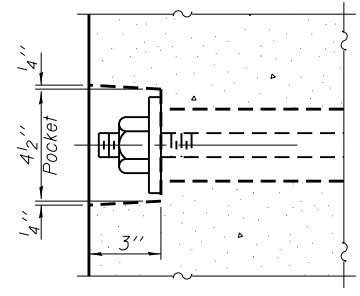


FABRIC BEARING PAD
(Interior)

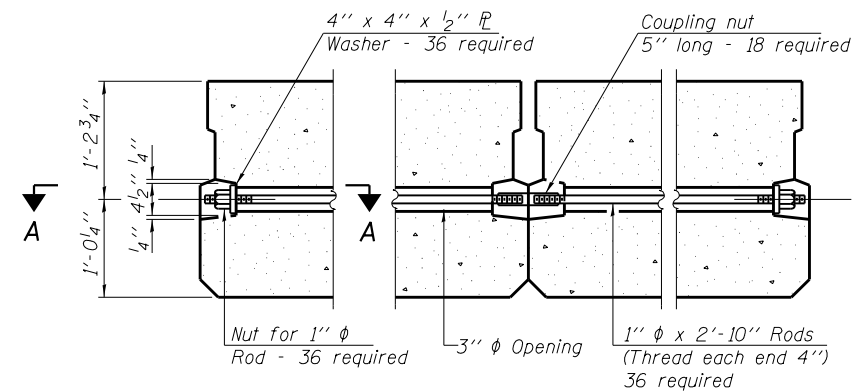


FABRIC BEARING PAD
(Exterior)

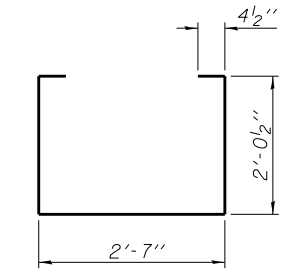
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



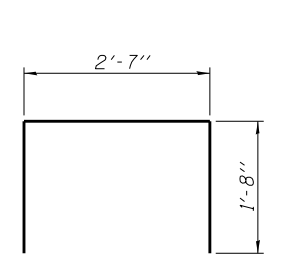
SECTION A-A



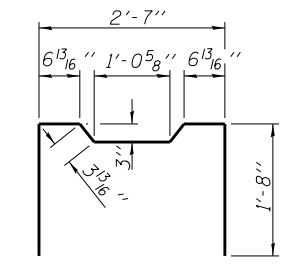
TYPICAL TRANSVERSE TIE ASSEMBLY



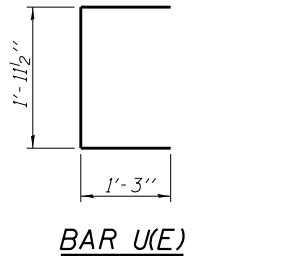
BAR S(E)



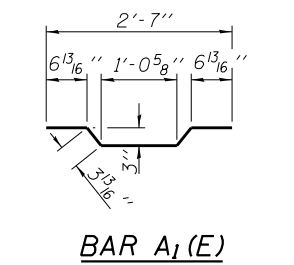
BAR S1(E)



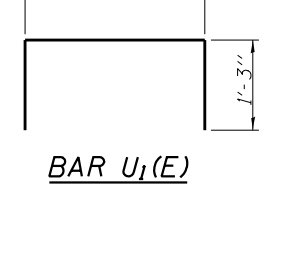
BAR S2(E)



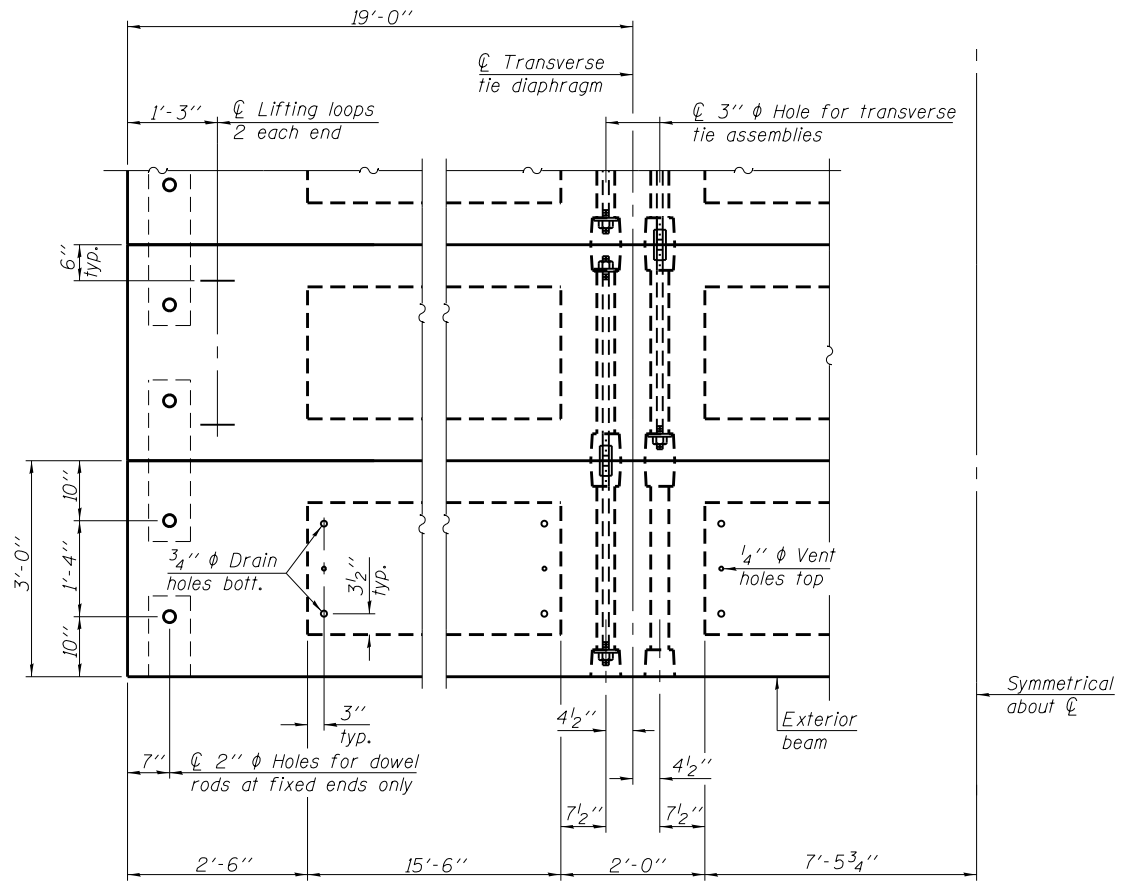
BAR U(E)



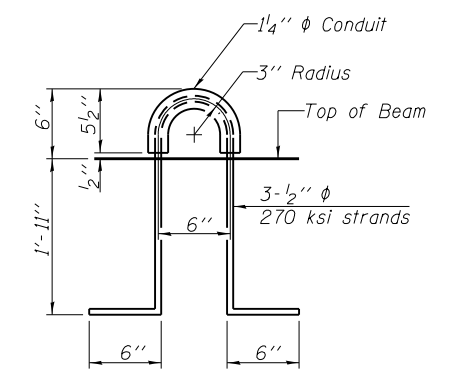
BAR A1(E)



BAR U1(E)



PLAN VIEW



LIFTING LOOP DETAIL

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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1649
---	---------	------

PD-2736-0D 06-01-16



FILE NAME = 0623762-004-DeckBeamDet27.dgn	DESIGNED - JAE	REVISIONS -
USER NAME = willis	CHECKED - BAS	REVISIONS -
PLOT SCALE =	DRAWN - JAE	REVISIONS -
PLOT DATE = 10/26/2017	CHECKED - BAS	REVISIONS -

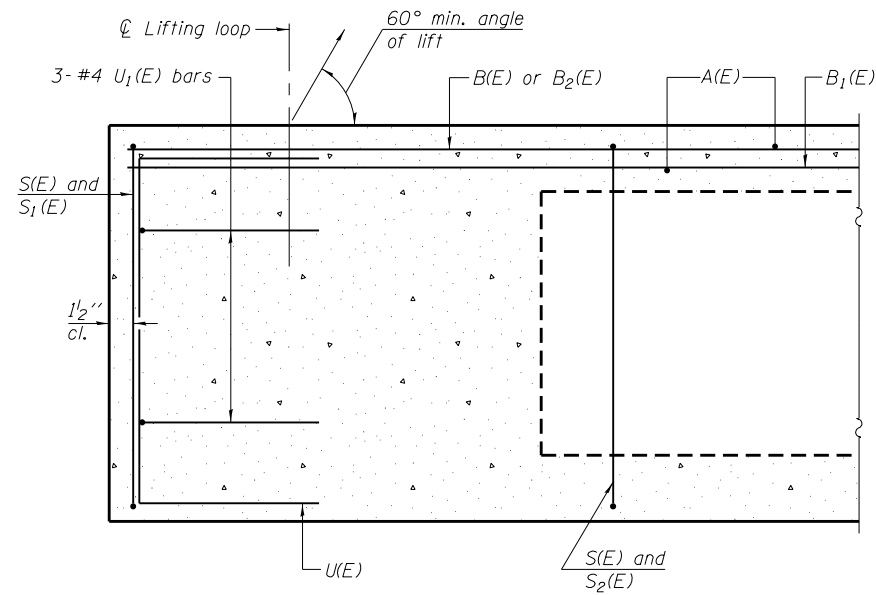
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 062-3762

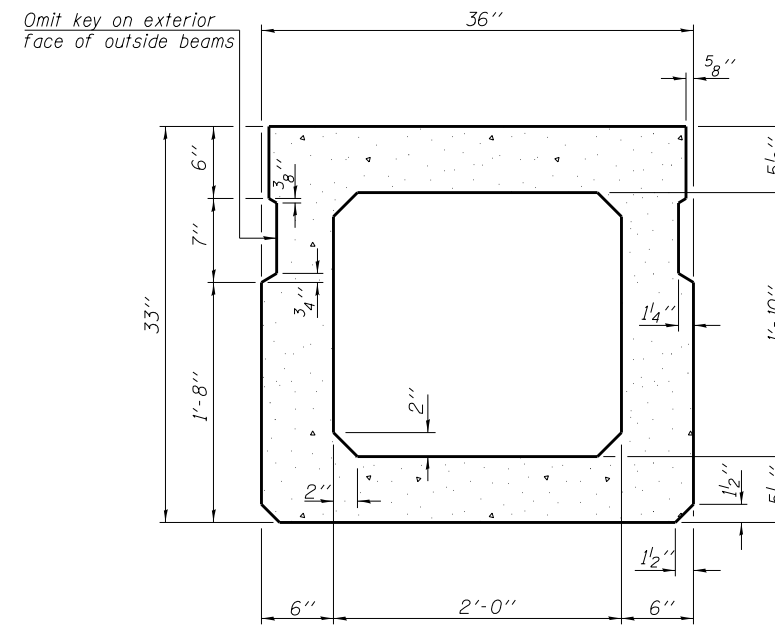
SHEET NO. 4 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	13
CONTRACT NO. 89702				

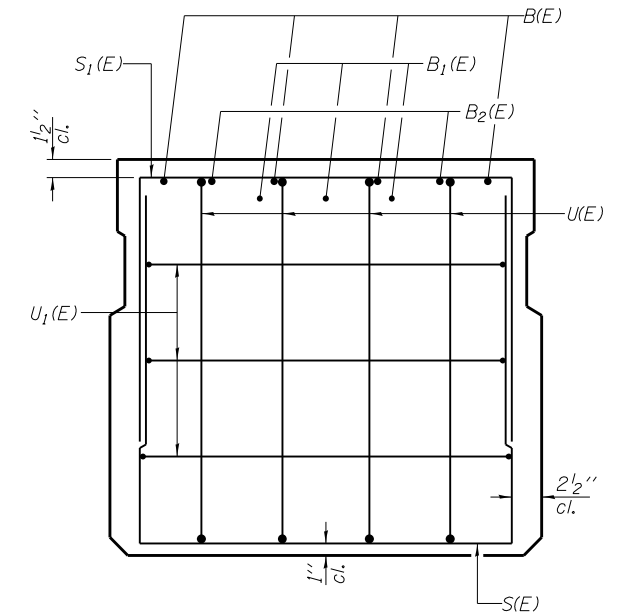
ILLINOIS FED. AID PROJECT



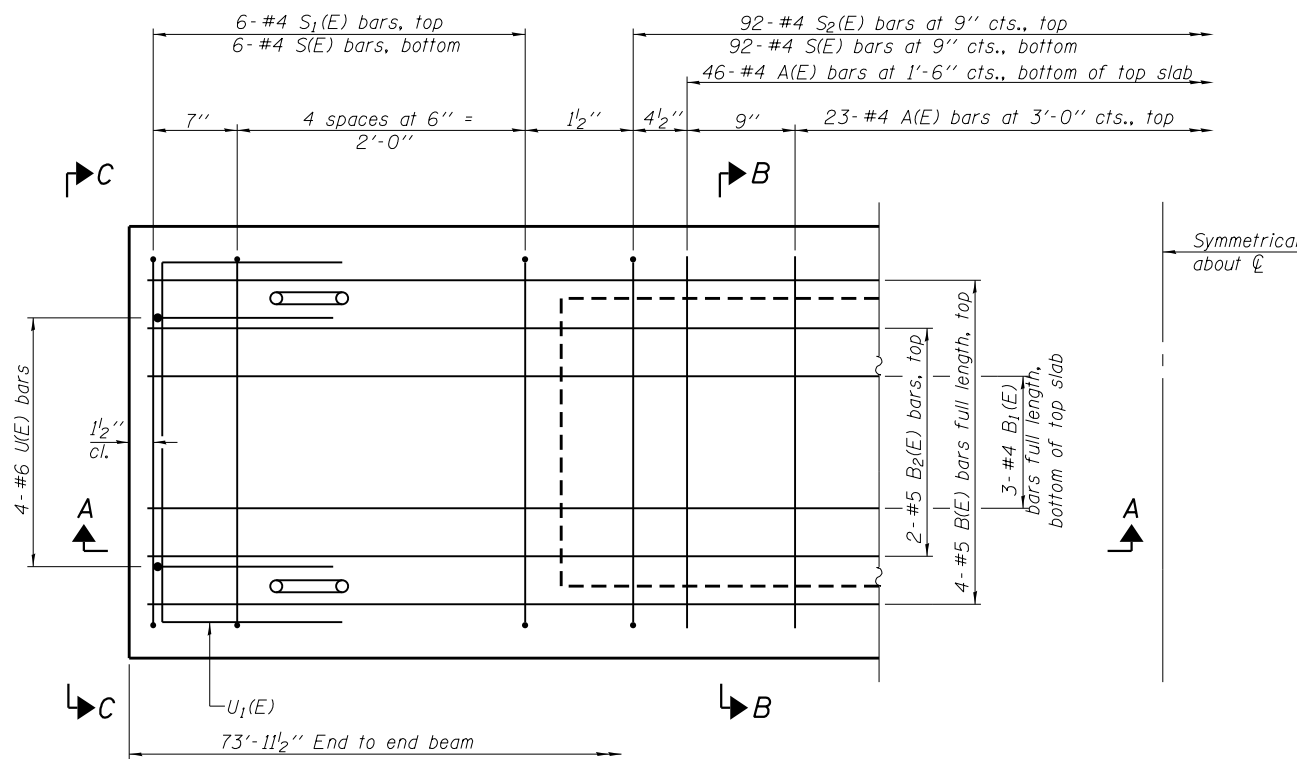
SECTION A-A



SECTION B-B
(Showing dimensions)

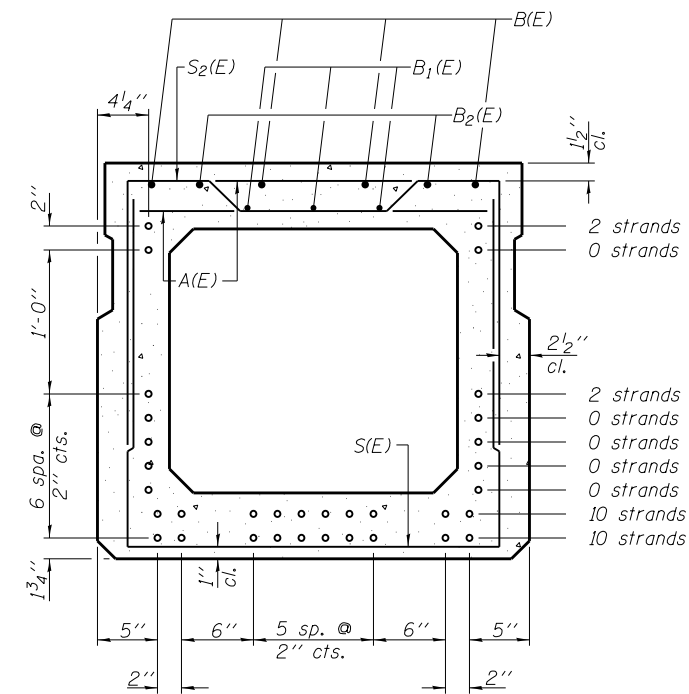


VIEW C-C



PLAN VIEW

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.



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	69	#4	2'-7"	—
B(E)	12	#5	26'-3"	—
B ₁ (E)	12	#4	19'-11"	—
B ₂ (E)	4	#5	10'-0"	—
S(E)	104	#4	7'-8"	U
S ₁ (E)	12	#4	6'-5"	U
S ₂ (E)	92	#4	6'-8"	U
U(E)	8	#6	5'-0"	C
U ₁ (E)	6	#4	5'-0"	C

Note: See sheet 6 of 15 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

PD-3336-0

6-8-15

FILE NAME = 0623762-005-DeckBeam33.dgn
MAURER-STUTZ
ENGINEERS SURVEYORS

USER NAME = wllouis
DESIGNED - JAE
CHECKED - BAS
DRAWN - JAE
CHECKED - BAS
PLOT SCALE =
PLOT DATE = 10/26/2017

DESIGNED - JAE
CHECKED - BAS
DRAWN - JAE
CHECKED - BAS
REVISED -
REVISED -
REVISED -
REVISED -

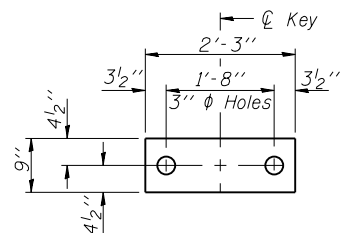
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33" x 36" PPC DECK BEAM
STRUCTURE NO. 062-3762

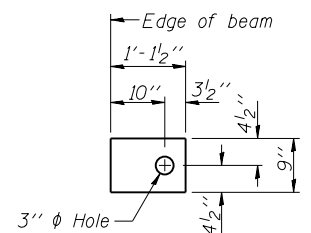
SHEET NO. 5 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	14
CONTRACT NO. 89702				

ILLINOIS FED. AID PROJECT

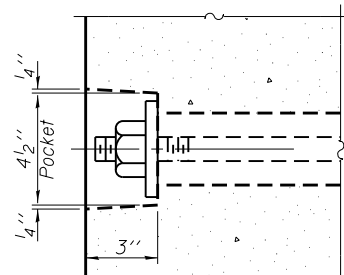


FABRIC BEARING PAD
(Interior)

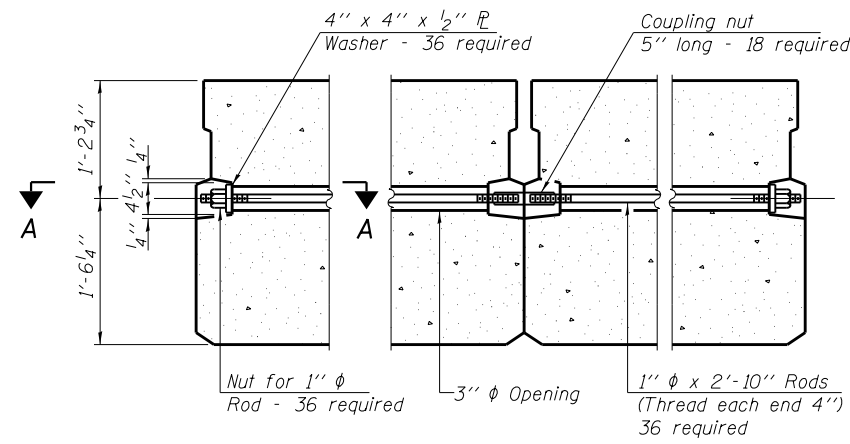


FABRIC BEARING PAD
(Exterior)

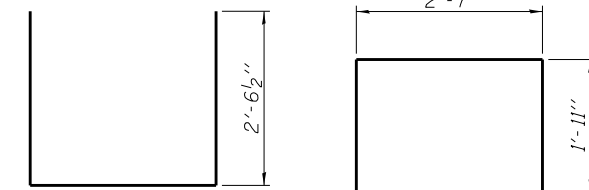
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



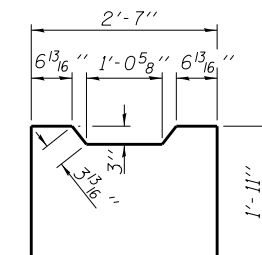
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

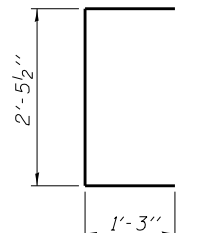


BAR S(E)



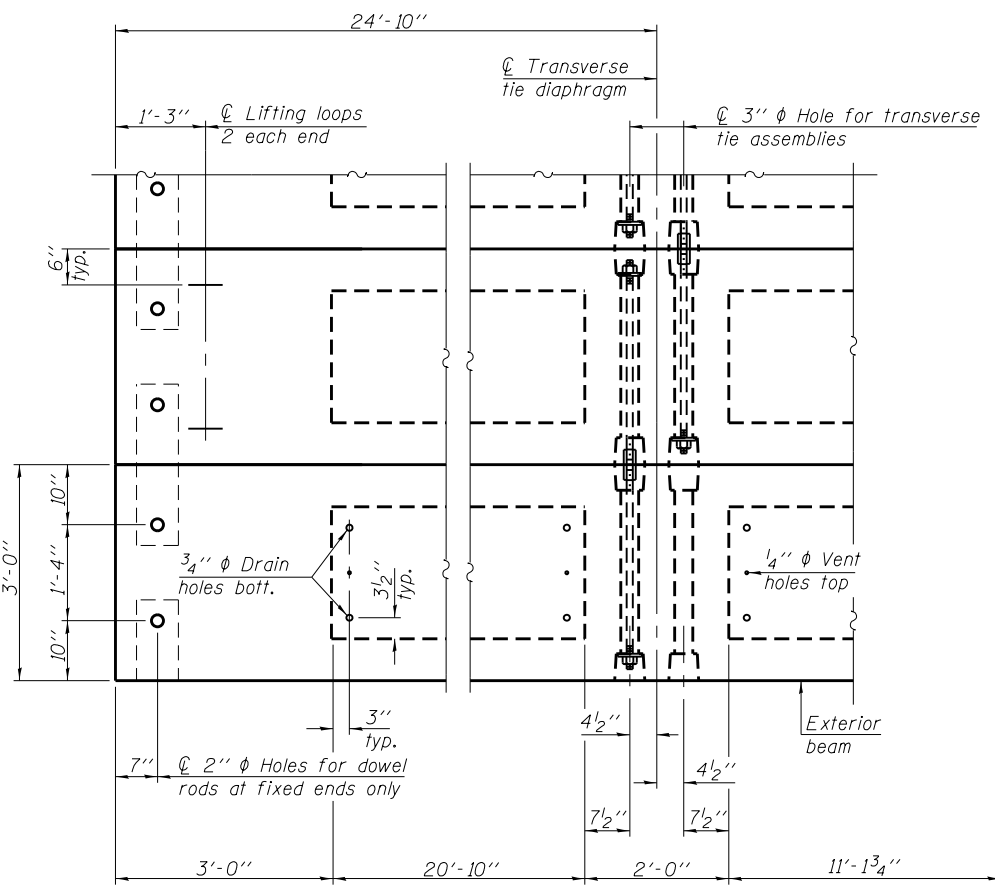
BAR S2(E)

BAR S1(E)



BAR U(E)

BAR U1(E)

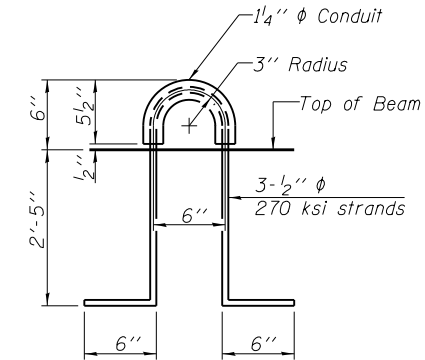


PLAN VIEW

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.	2219
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PD-3336-0D 1-28-16

FILE NAME = 0623762-006-DeckBeamDet33.dgn	DESIGNED - JAE	REVISOR -
MAURER-STUTZ ENGINEERS SURVEYORS	CHECKED - BAS	REVISOR -
USER NAME = willis	DRAWN - JAE	REVISOR -
PLOT SCALE =	CHECKED - BAS	REVISOR -
PLOT DATE = 10/26/2017		

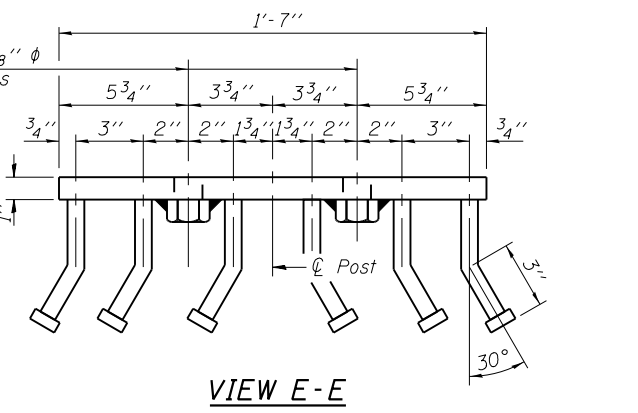
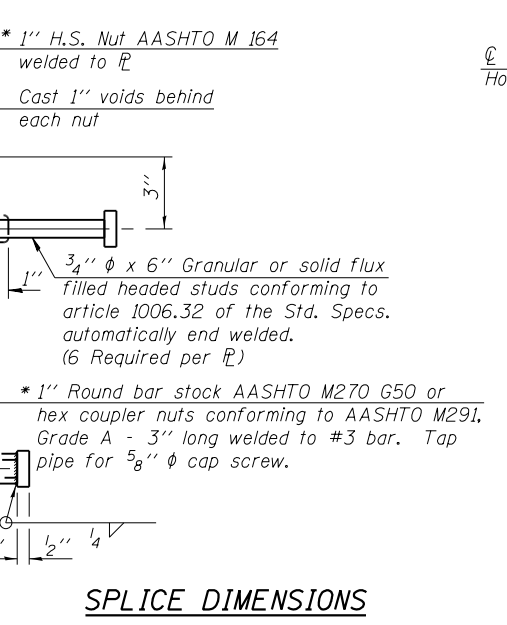
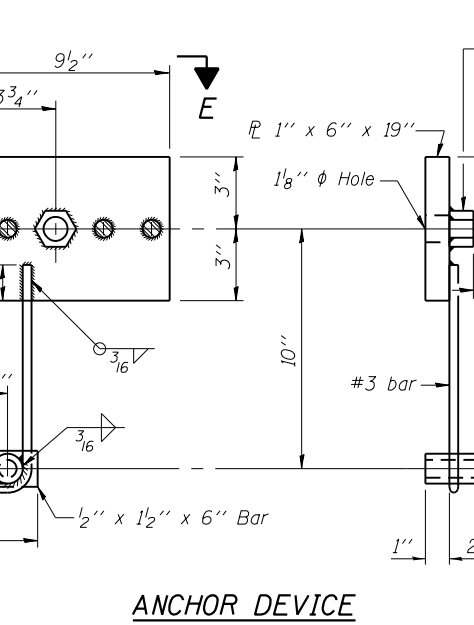
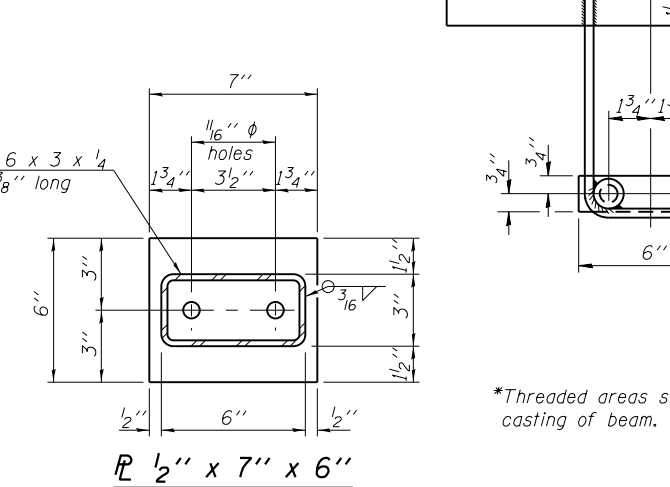
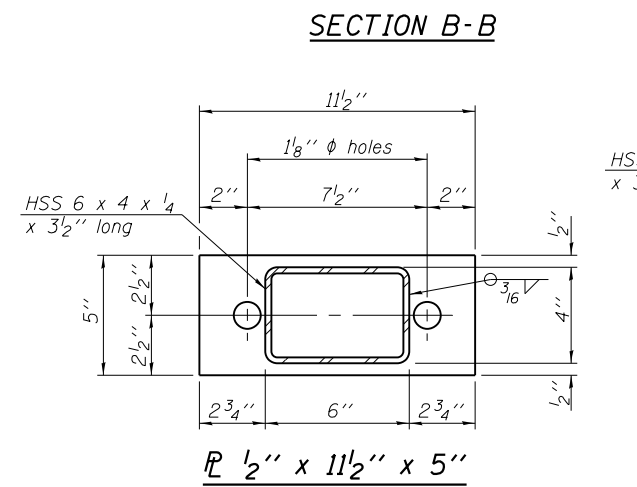
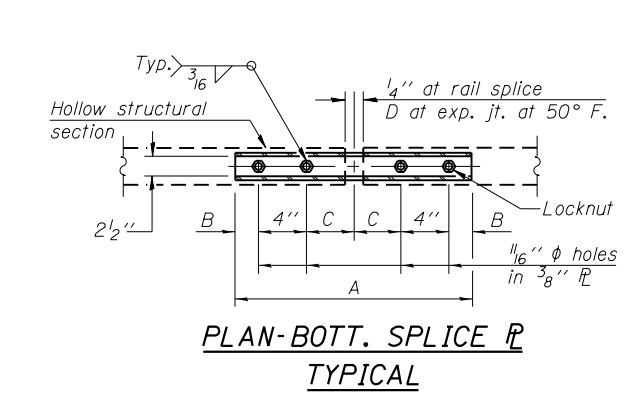
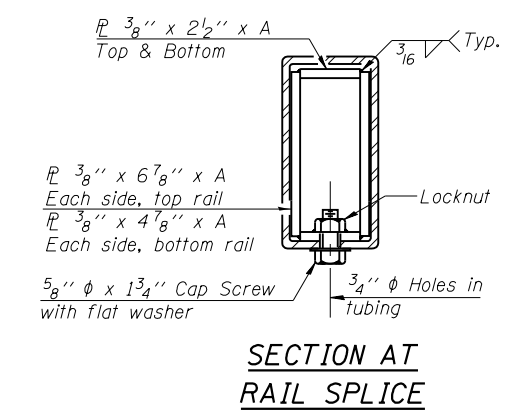
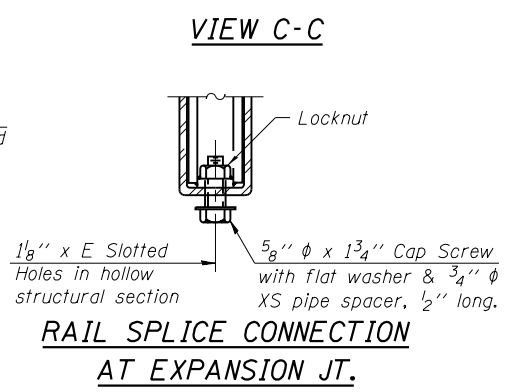
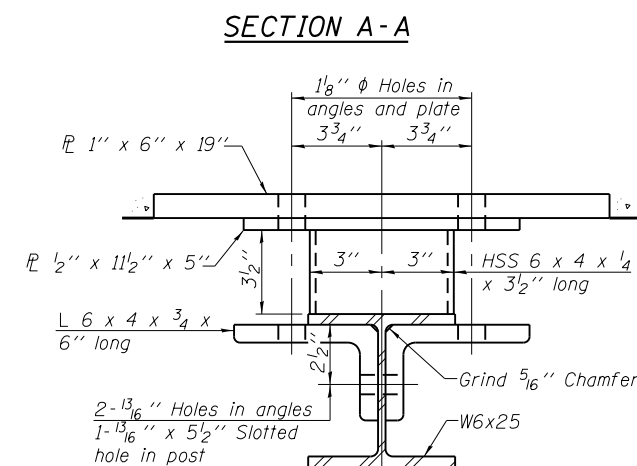
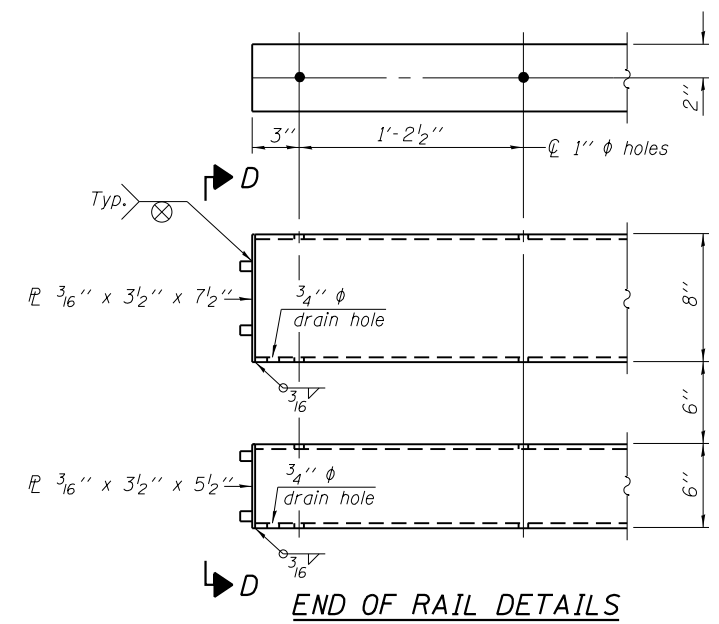
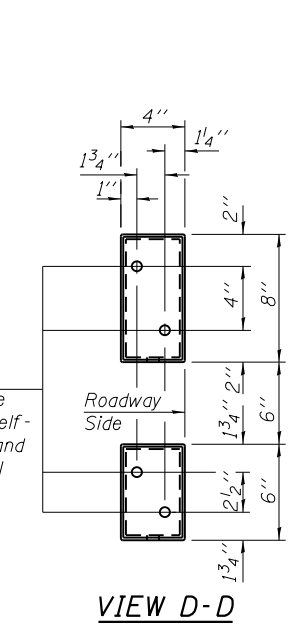
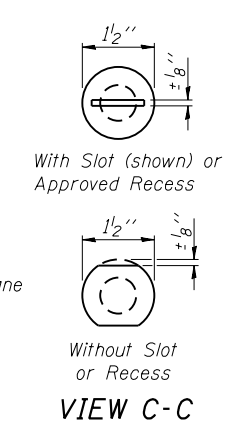
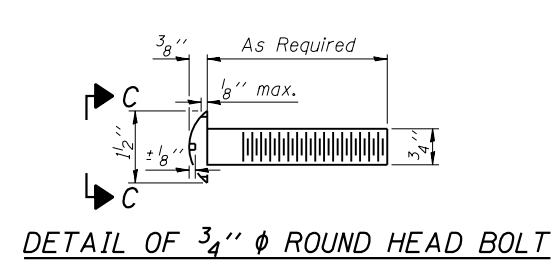
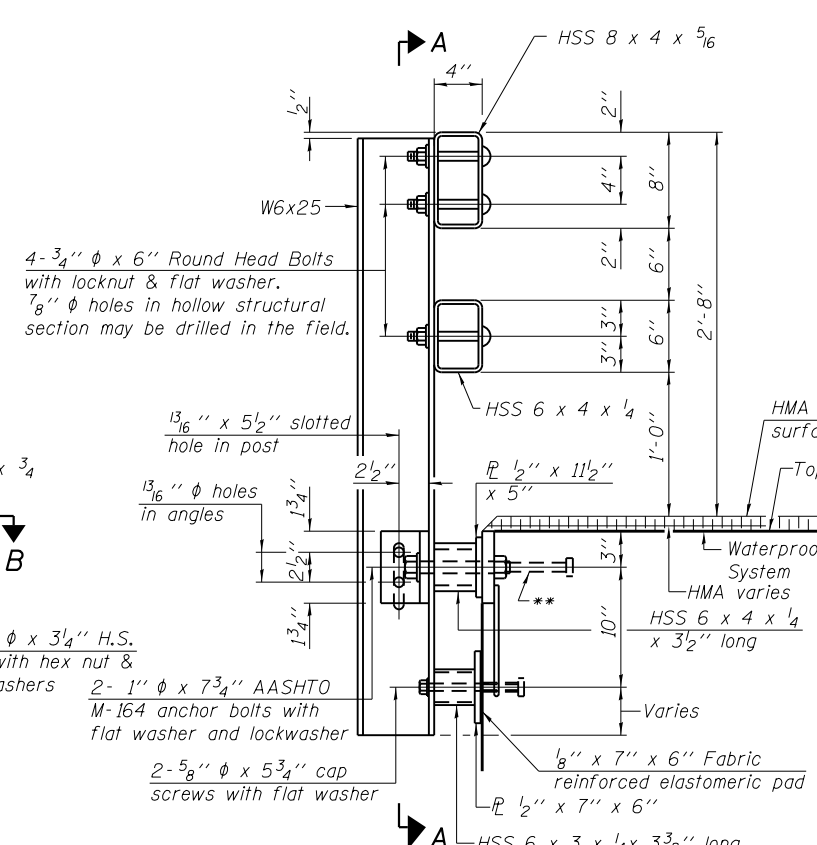
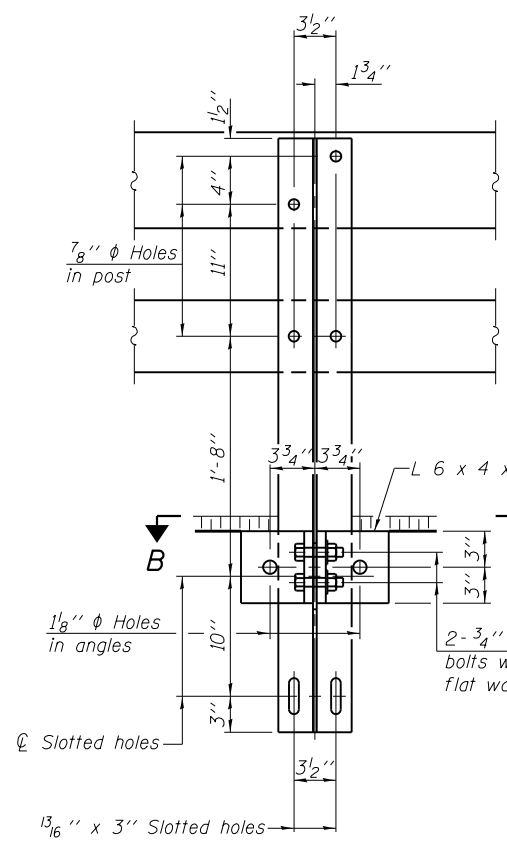
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 062-3762

SHEET NO. 6 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	15
CONTRACT NO. 89702				

ILLINOIS FED. AID PROJECT



R-34HMAWS 11-22-2016 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

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

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"	

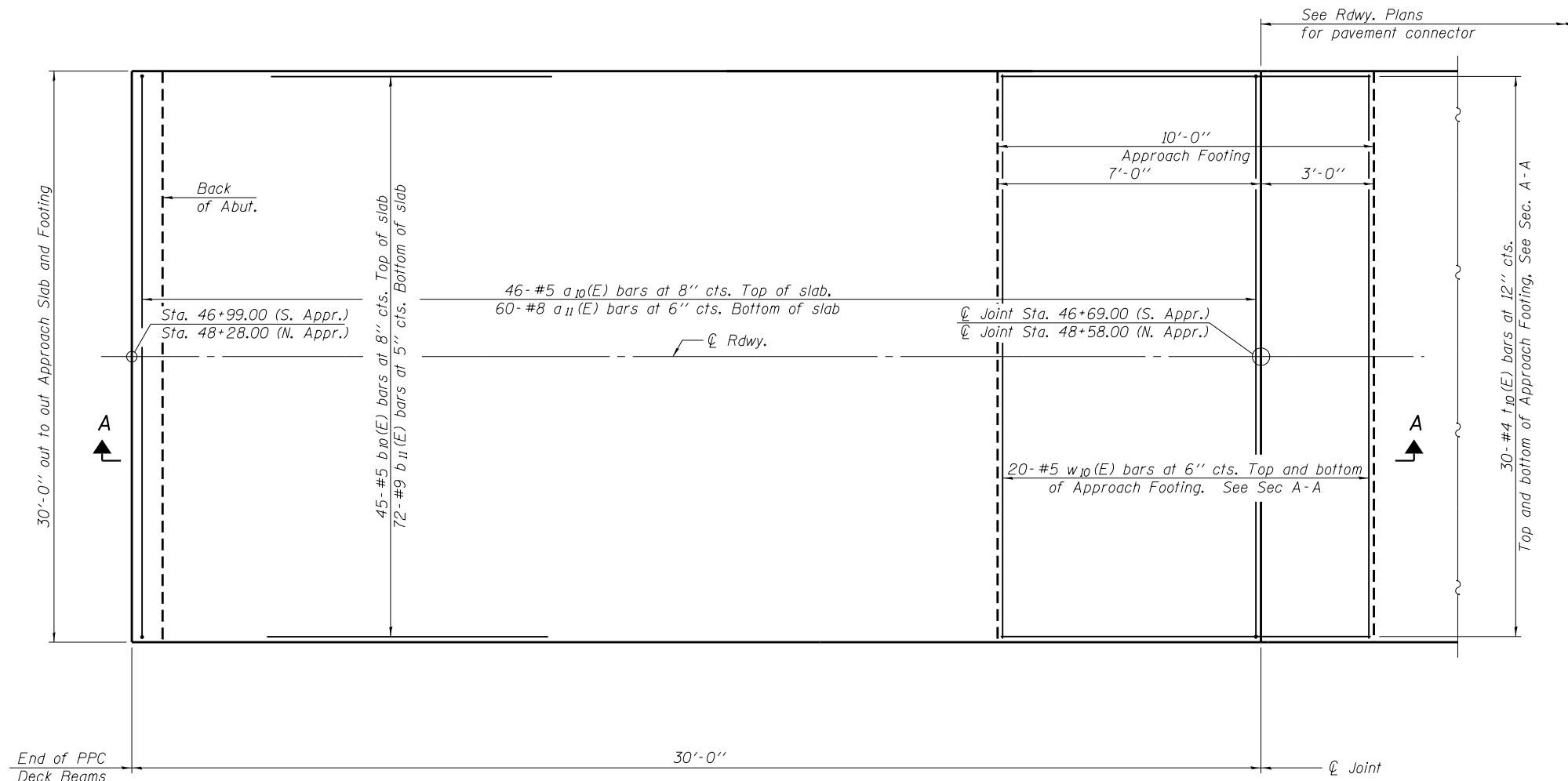
T = Total movement at expansion joint as shown on the design plans.

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.
 All steel rail members 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. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	262

Notes:
See sheet 9 of 15 for Section A-A.



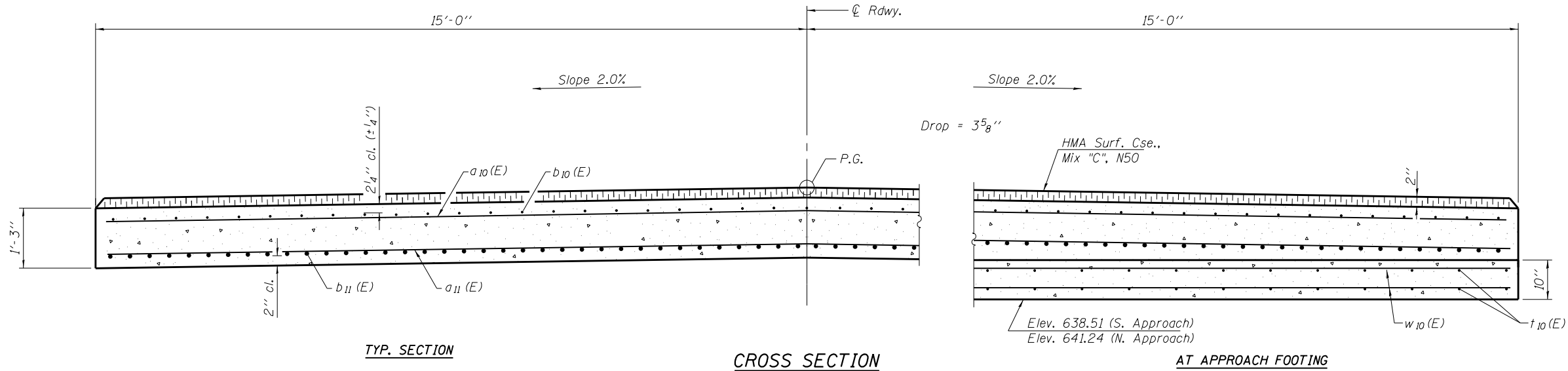
PLAN

CL RDWY. & P.G.

Location	Station	Offset	Theoretical Grade Elevations (Top/Concrete)
S. End of S. Appr.	Sta. 46+69.00	0.00	640.89
N. End of S. Appr.	Sta. 46+99.00	0.00	641.34
S. End of N. Appr.	Sta. 48+28.00	0.00	643.28
N. End of N. Appr.	Sta. 48+58.00	0.00	643.72

EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations (Top/Concrete)
S. End of S. Appr.	Sta. 46+69.00	+15.00	640.59
N. End of S. Appr.	Sta. 46+99.00	+15.00	641.04
S. End of N. Appr.	Sta. 48+28.00	+15.00	642.98
N. End of N. Appr.	Sta. 48+58.00	+15.00	643.42



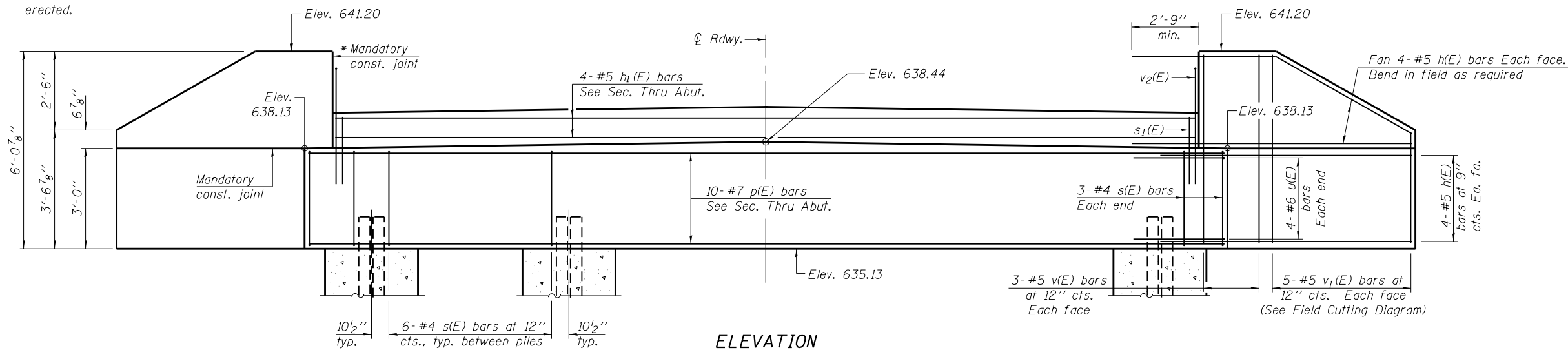
TYP. SECTION

CROSS SECTION

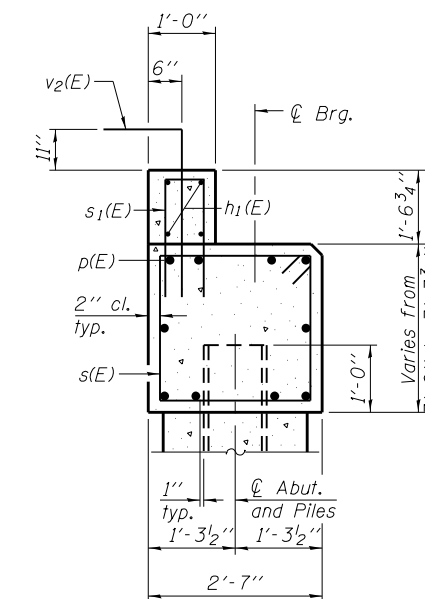
AT APPROACH FOOTING

(Sheet 1 of 2)

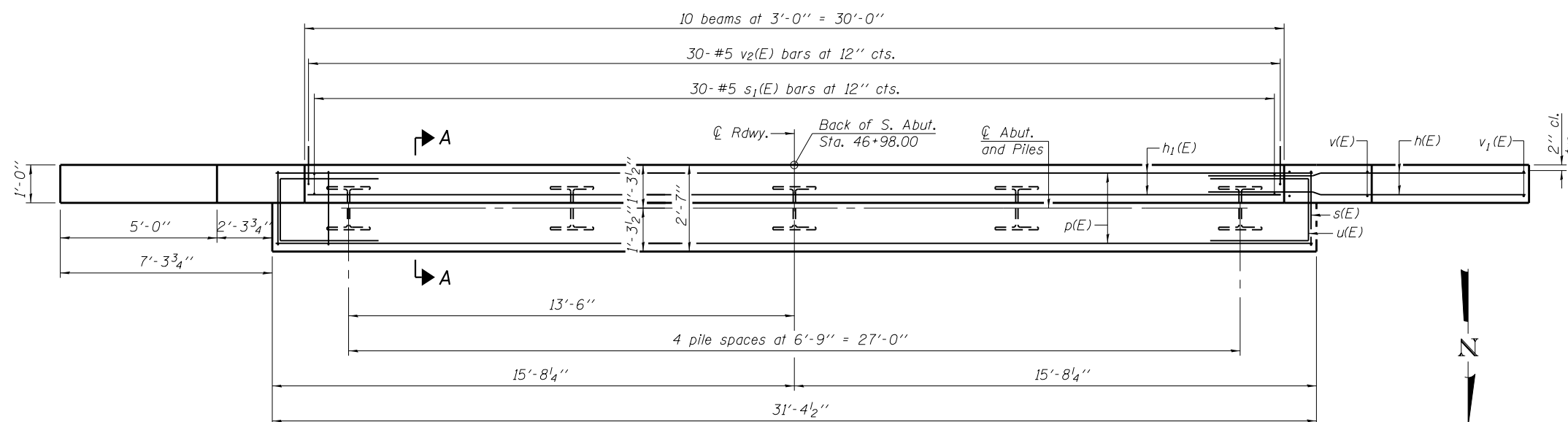
* Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION



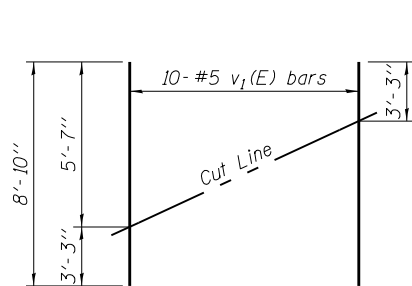
SECTION A-A



PLAN

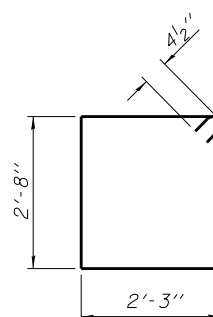
PILE DATA

Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 400 kips
 Factored Resistance Available: 220 kips
 Est. Length: 55 feet
 No. Production Piles: 4
 No. Test Piles: 1

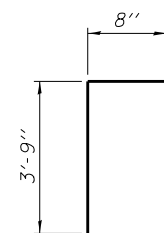


FIELD CUTTING DIAGRAM

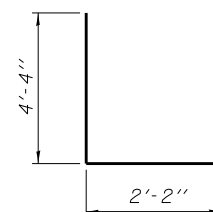
Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite face.



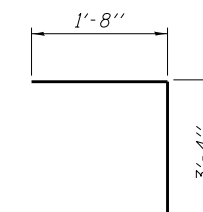
BAR s(E)



BAR s1(E)



BAR u(E)



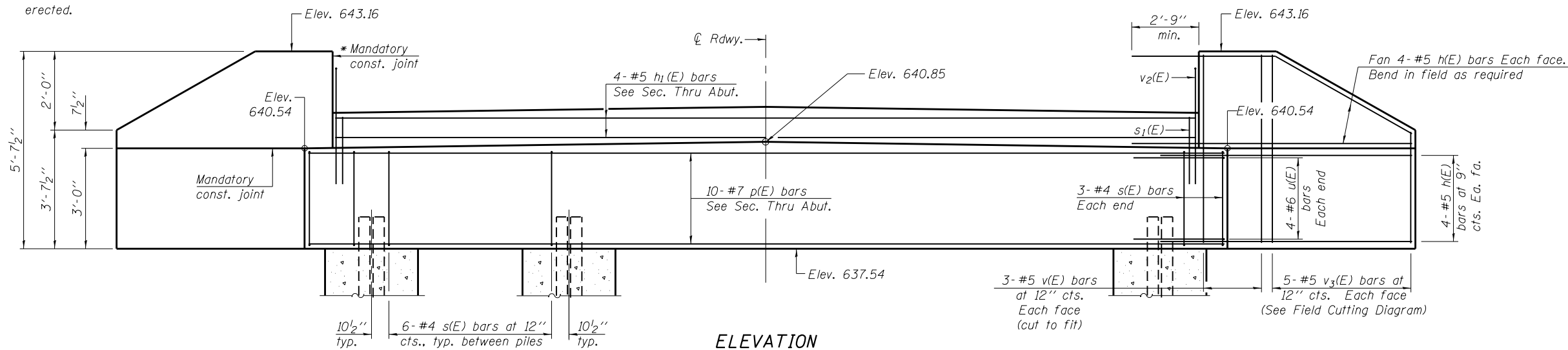
BAR v2(E)

BILL OF MATERIAL

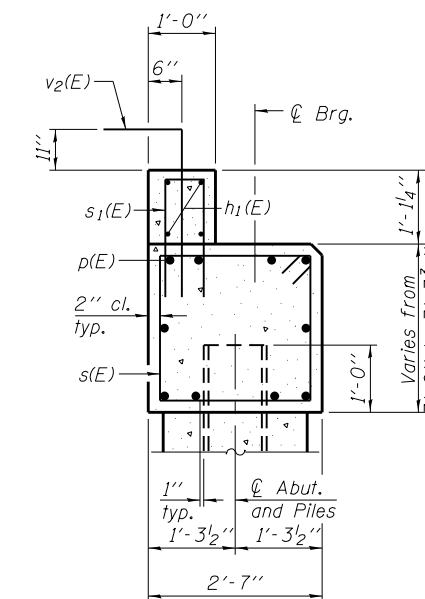
Bar	No.	Size	Length	Shape
h(E)	32	#5	11'-2"	—
h1(E)	4	#5	29'-8"	—
p(E)	10	#7	31'-0"	—
s(E)	30	#4	10'-7"	□
s1(E)	30	#5	8'-2"	□
u(E)	8	#6	10'-10"	U
v(E)	12	#5	5'-7"	—
v1(E)	10	#5	8'-10"	—
v2(E)	30	#5	5'-0"	└
Structure Excavation		Cu. Yd.	24	
Concrete Structures		Cu. Yd.	14.2	
Concrete Encasement		Cu. Yd.	1.8	
Reinforcement Bars, Epoxy Coated		Pound	2050	
Furnishing Steel Piles HP12x53		Foot	220	
Driving Piles		Each	220	
Test Steel Pile HP12x53		Foot	1	
Pile Shoes		Each	5	

Notes:
 For details of piles, see sheet 13 of 15.
 Cast backwall after beams have been erected.

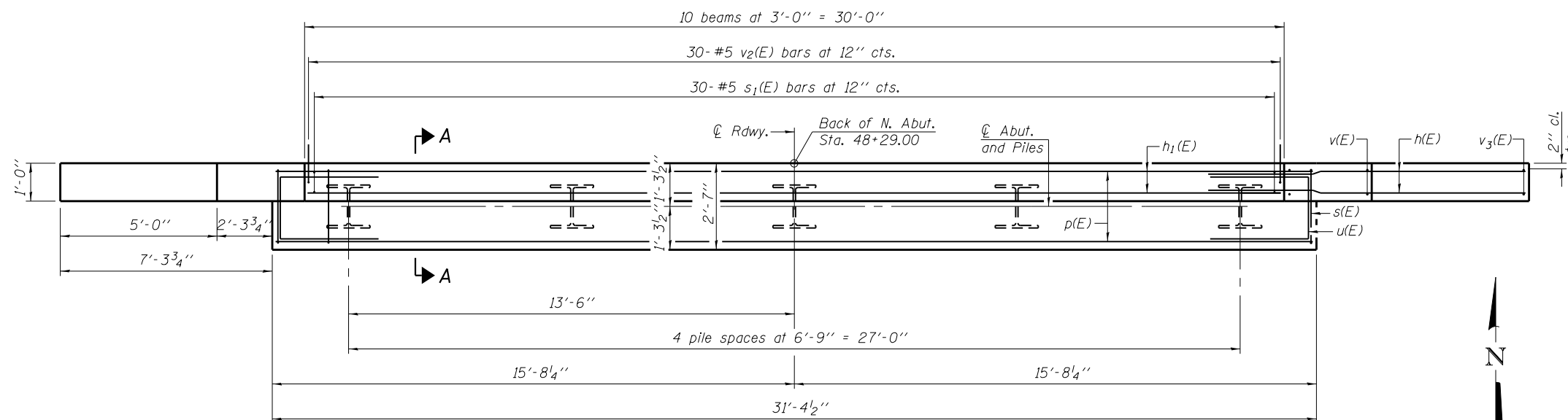
* Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION



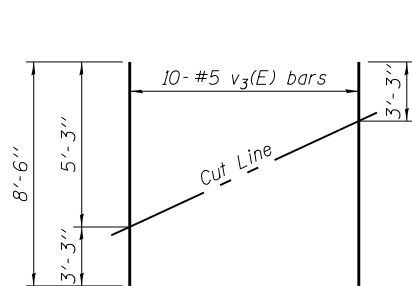
SECTION A-A



PLAN

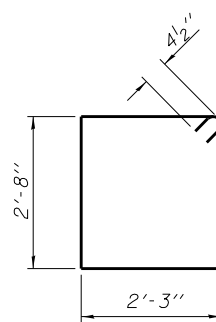
PILE DATA

Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 328 kips
 Factored Resistance Available: 180 kips
 Est. Length: 55 feet
 No. Production Piles: 4
 No. Test Piles: 1

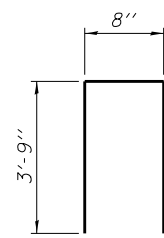


FIELD CUTTING DIAGRAM

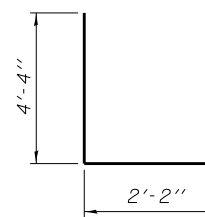
Order v3(E) bars full length. Cut as shown and use remainder of bars in opposite face.



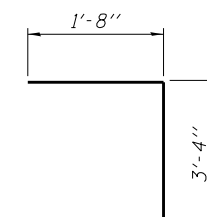
BAR s(E)



BAR s1(E)



BAR u(E)



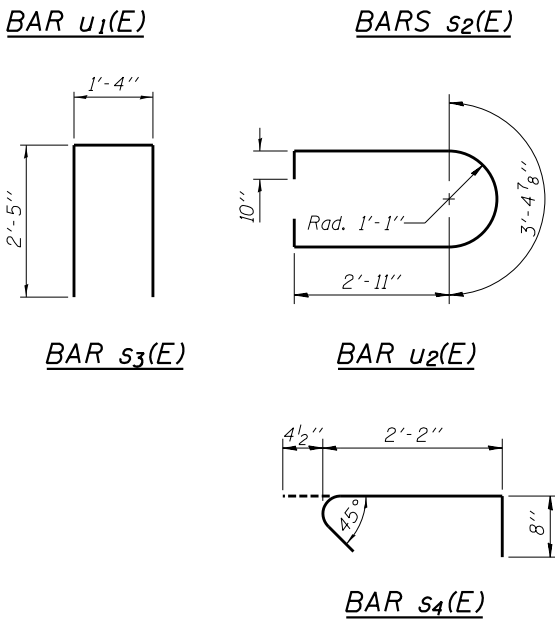
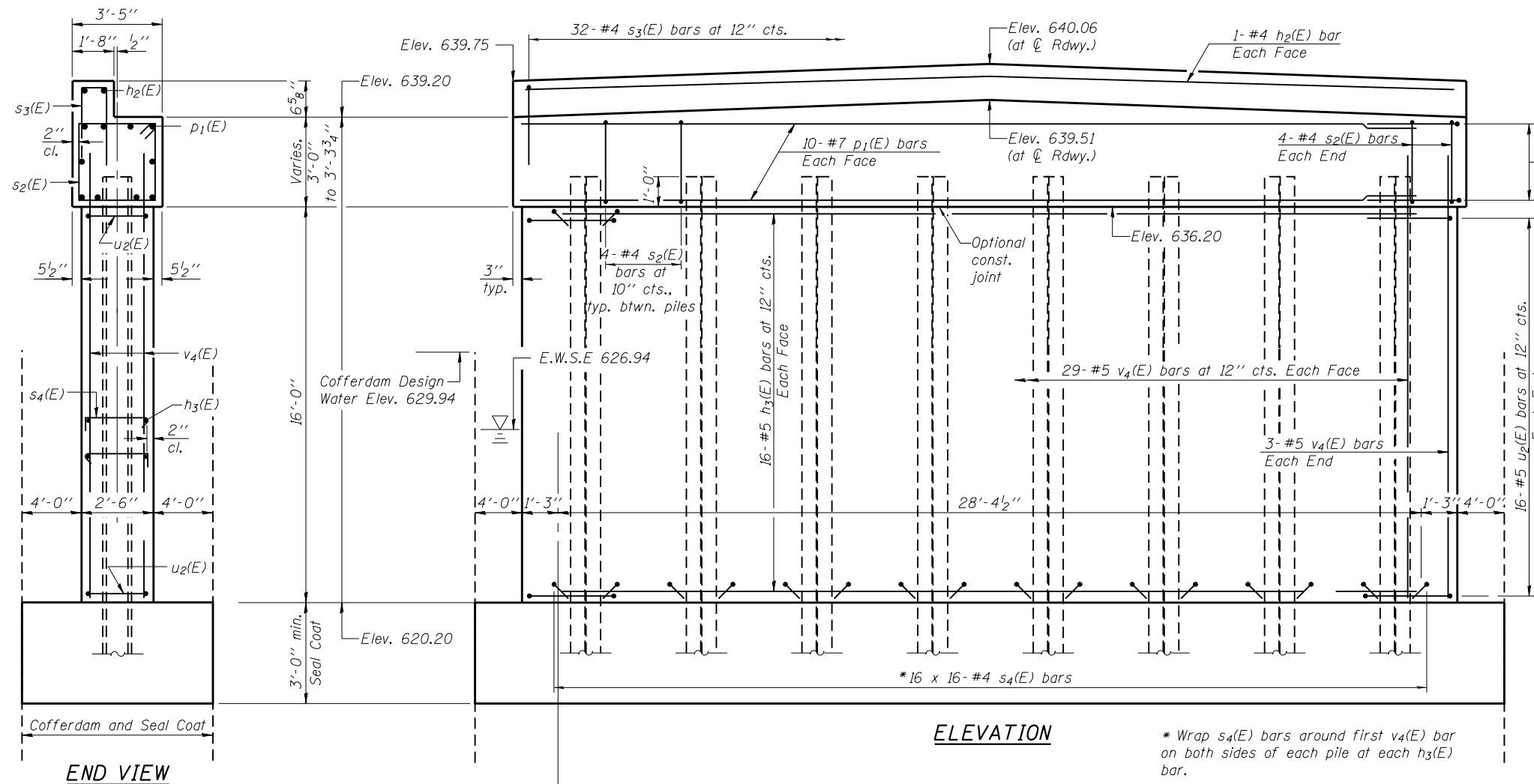
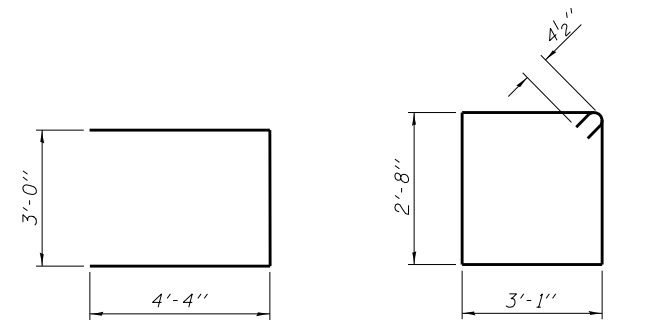
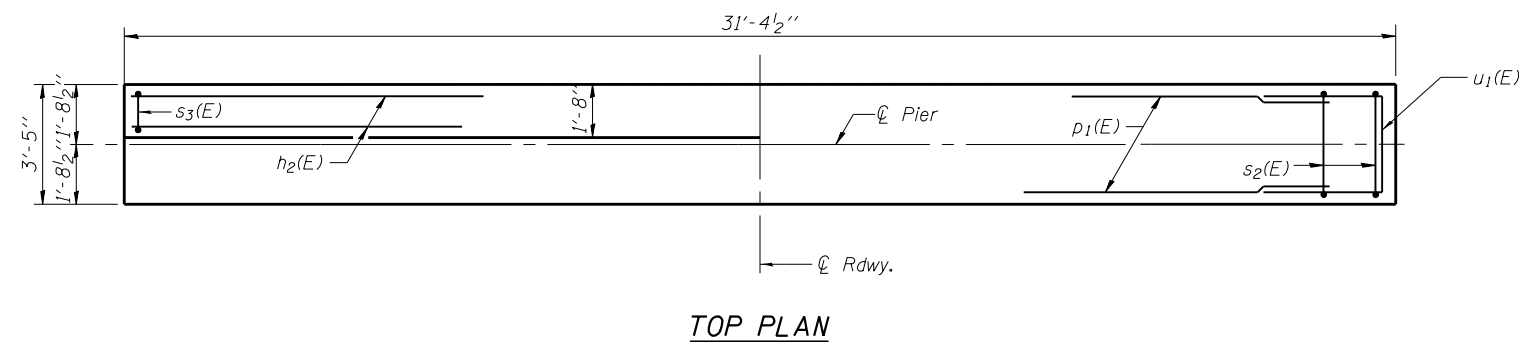
BAR v2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	11'-2"	—
h1(E)	4	#5	29'-8"	—
p(E)	10	#7	31'-0"	—
s(E)	30	#4	10'-7"	□
s1(E)	30	#5	8'-2"	□
u(E)	8	#6	10'-10"	□
v(E)	12	#5	5'-7"	—
v2(E)	30	#5	5'-0"	└
v3(E)	10	#5	8'-6"	—
Structure Excavation		Cu. Yd.	33	
Concrete Structures		Cu. Yd.	13.5	
Concrete Encasement		Cu. Yd.	1.8	
Reinforcement Bars, Epoxy Coated		Pound	2040	
Furnishing Steel Piles HP12x53		Foot	220	
Driving Piles		Each	220	
Test Steel Pile HP12x53		Foot	1	
Pile Shoes		Each	5	

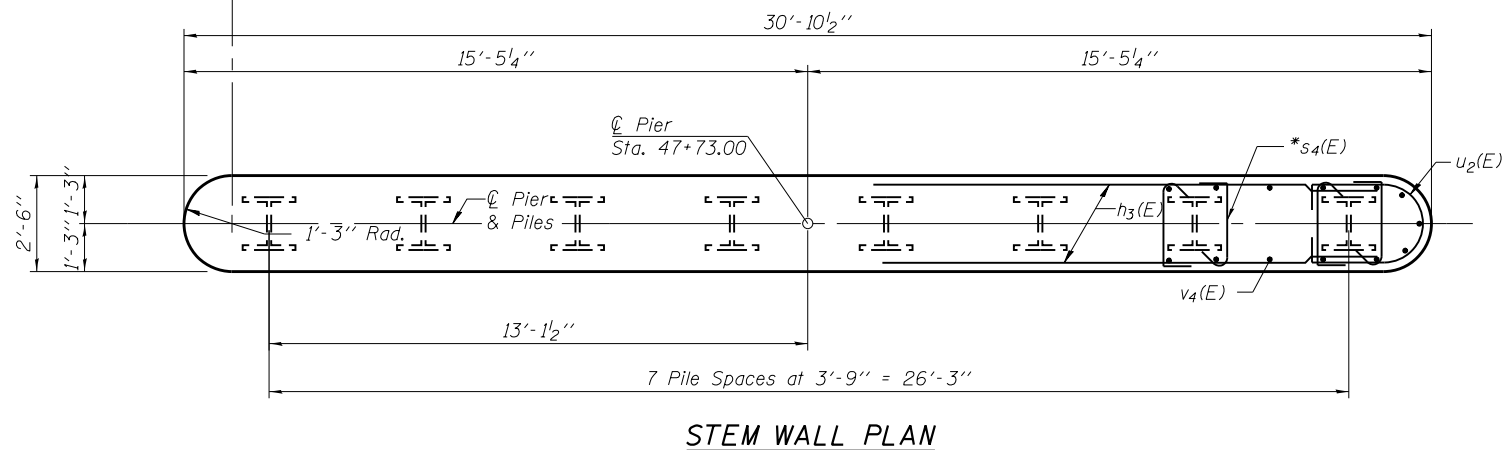
Notes:
 For details of piles, see sheet 13 of 15.
 Cast backwall after beams have been erected.

Notes:
Space reinforcement in cap to miss dowel rods.



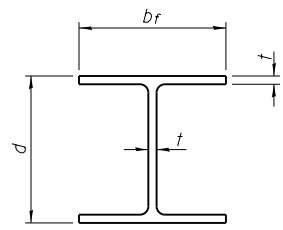
PILE DATA
Type: Steel - HP12x53 with Pile Shoes
Nominal Required Bearing: 419 kips
Factored Resistance Available: 192 kips
Est. Length: 55 feet
No. Production Piles: 7
No. Test Piles: 1
Minimum Tip Elevation: 591.50

Notes:
For details for piles, see sheet 13 of 15.



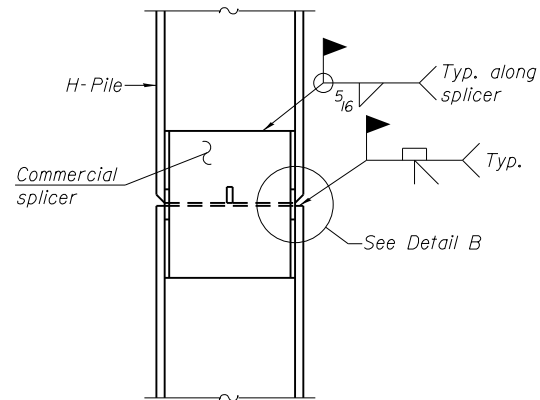
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	2	#4	31'-0"	—
h ₃ (E)	32	#5	28'-3"	—
p ₁ (E)	10	#7	31'-0"	—
s ₂ (E)	36	#4	12'-3"	□
s ₃ (E)	32	#4	6'-2"	□
s ₄ (E)	256	#4	3'-3"	┌┐
u ₁ (E)	6	#6	11'-8"	U
u ₂ (E)	32	#5	10'-11"	U
v ₄ (E)	64	#5	18'-5"	—
Cofferdam Excavation		Cu. Yd.	186	
Cofferdam (Type 2) (Location - 1)		Each	1	
Seal Coat Concrete		Cu. Yd.	45.4	
Concrete Structures		Cu. Yd.	58.5	
Reinforcement Bars, Epoxy Coated		Pound	4300	
Furnishing Steel Piles HP12x53		Foot	385	
Driving Piles		Foot	385	
Test Pile Steel HP12x53		Each	1	
Pile Shoes		Each	8	

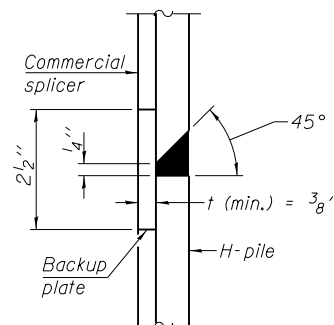


STEEL PILE TABLE

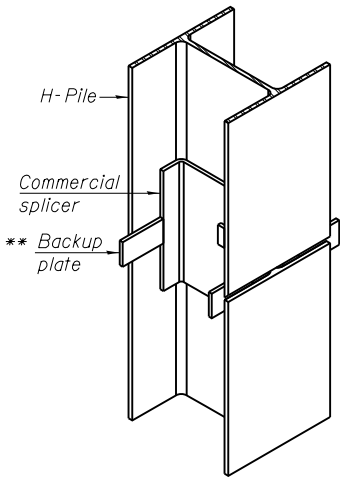
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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

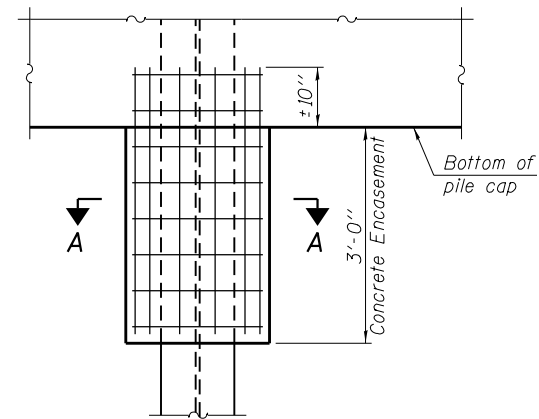


DETAIL "B"



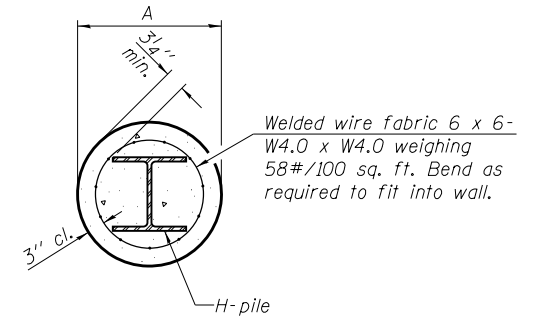
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



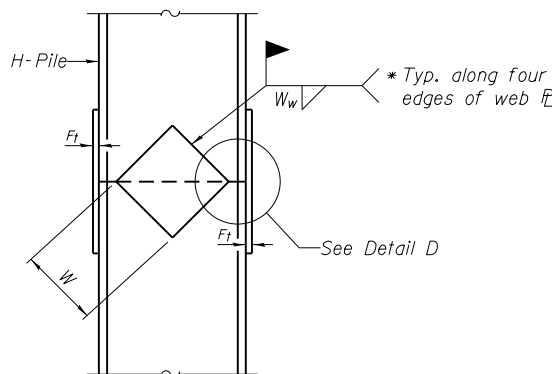
ELEVATION

PILE ENCASEMENT

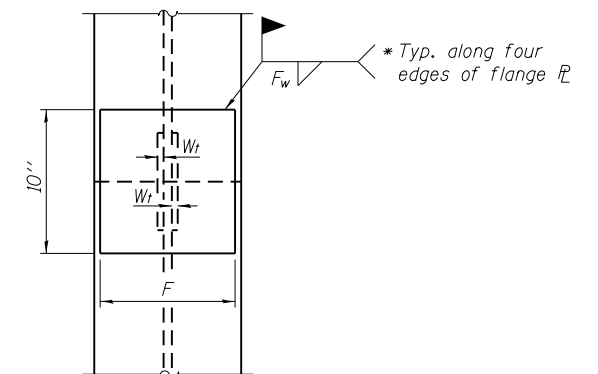


SECTION A-A

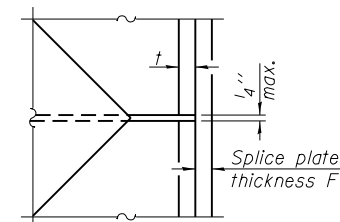
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



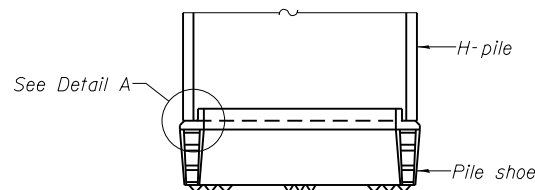
END VIEW



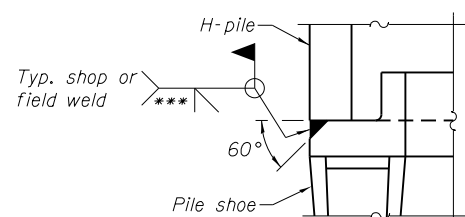
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
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"	1/16"	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"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

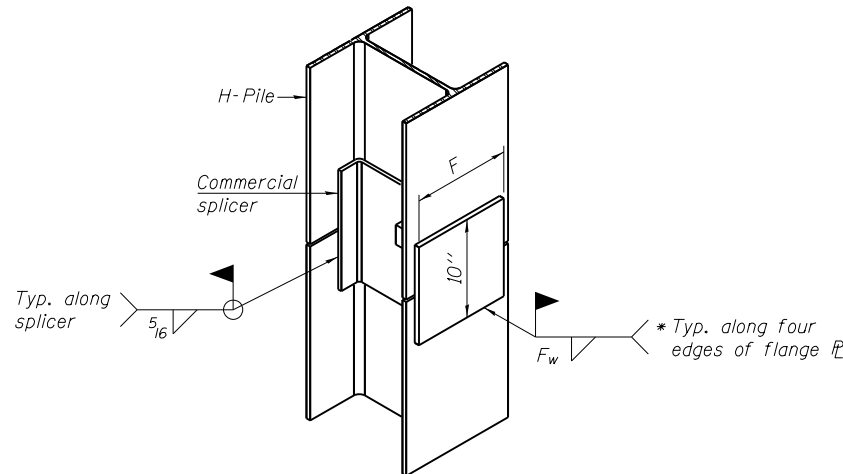


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

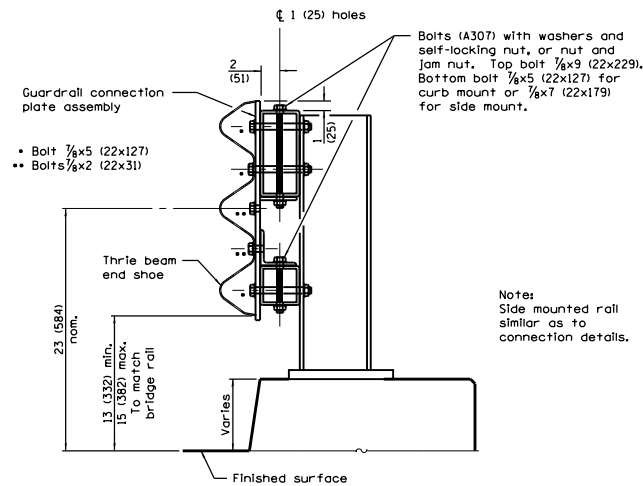
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

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

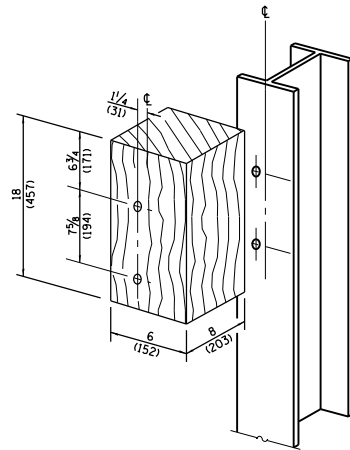
F-HP 1-27-12

FILE NAME = 0623762-013 - HP-Pile.dgn	USER NAME = wllouis	DESIGNED - JAE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS STRUCTURE NO. 062-3762	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE =	CHECKED - BAS	REVISED -			3	16-00099-00-BR	MARSHALL	34	22	
PLOT DATE = 10/26/2017	DRAWN - JAE	CHECKED - BAS	REVISED -			CONTRACT NO. 89702					
						ILLINOIS FED. AID PROJECT					

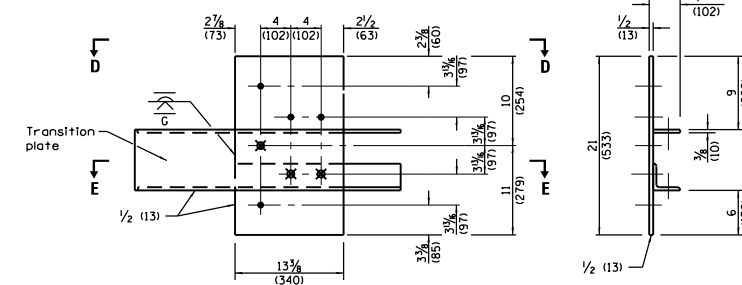
SHEET NO. 13 OF 15 SHEETS



SECTION C-C



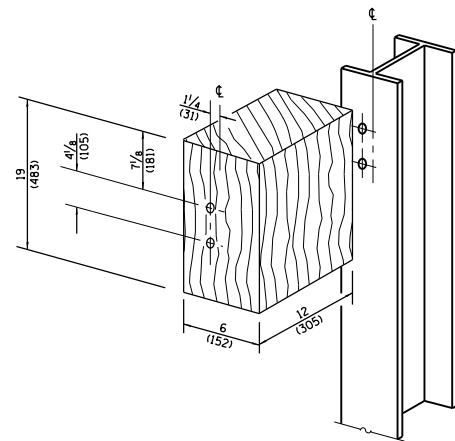
POSTS 1-9 WOOD BLOCKOUT DETAIL



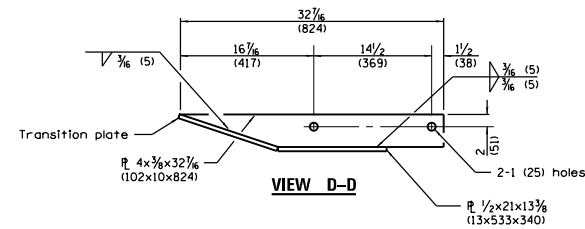
GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS

(Mirror for opposite end)

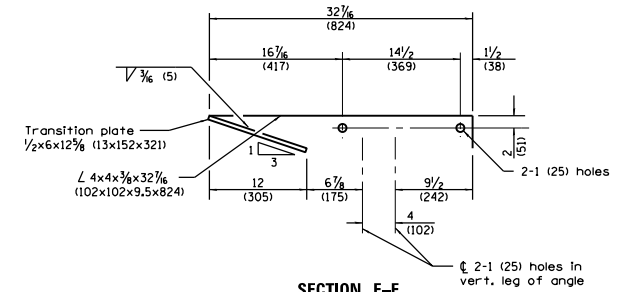
- LEGEND**
- ⌀ 4-1 (25) holes for 3/8 (22) H.S. bolts and nuts
 - Bolt 1/4x5 (22x127)
 - Bolt 3/8x2 (22x31)
 - ⊗ Drill and tap 3 holes for 3/8 (22) H.S. bolts.



POST 10 WOOD BLOCKOUT DETAIL
(See Standard 630001 for post 11-15 blockouts.)

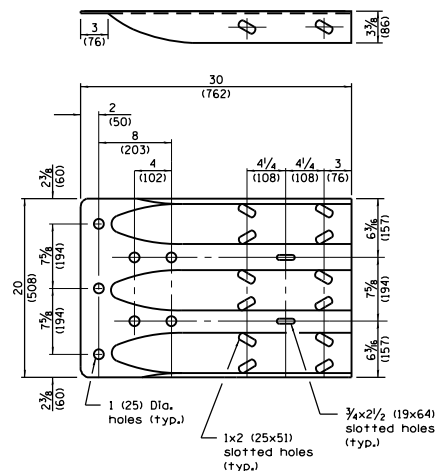


VIEW D-D

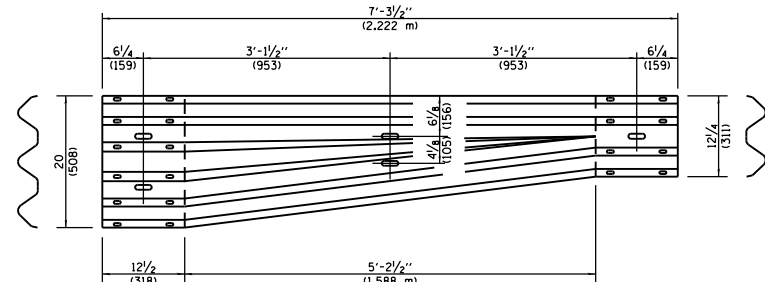


SECTION E-E

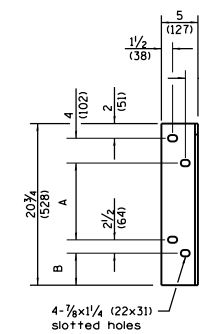
⌀ 2-1 (25) holes in vert. leg of angle



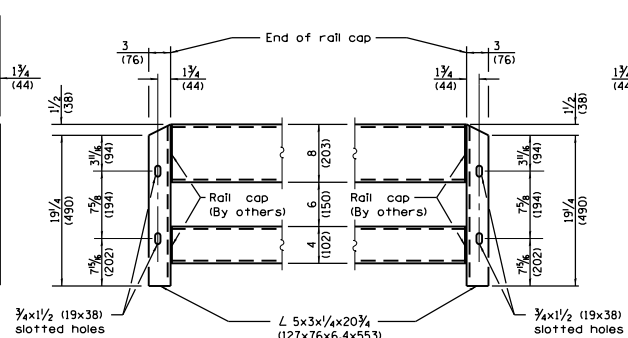
MODIFIED THRIE BEAM END SHOE DETAIL



TRANSITION SECTION
(10 gauge (3.4) rail element)

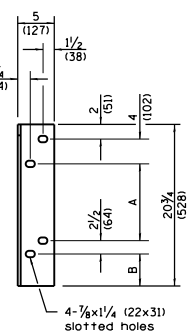


DEPARTURE END VIEW



CONNECTION ANGLES

(Install angles to rail caps using 3/8 (19) washers and self-locking nuts or nuts and jam nuts, to be provided by others)



APPROACH END VIEW

Dimensions	A	B
For Curb Mounted Rail	8 3/4 (222)	3 1/2 (89)
For Side Mounted Rail	9 3/4 (247)	2 1/2 (64)

FILE NAME: \\S:\316205\00_Marshall.CH 3_Crow_Creesh\CADD\CADD_Sheets\0416205-st-guardrail_detail.dgn



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 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 10.0000' / 1"
 PLOT DATE = 10/26/2017

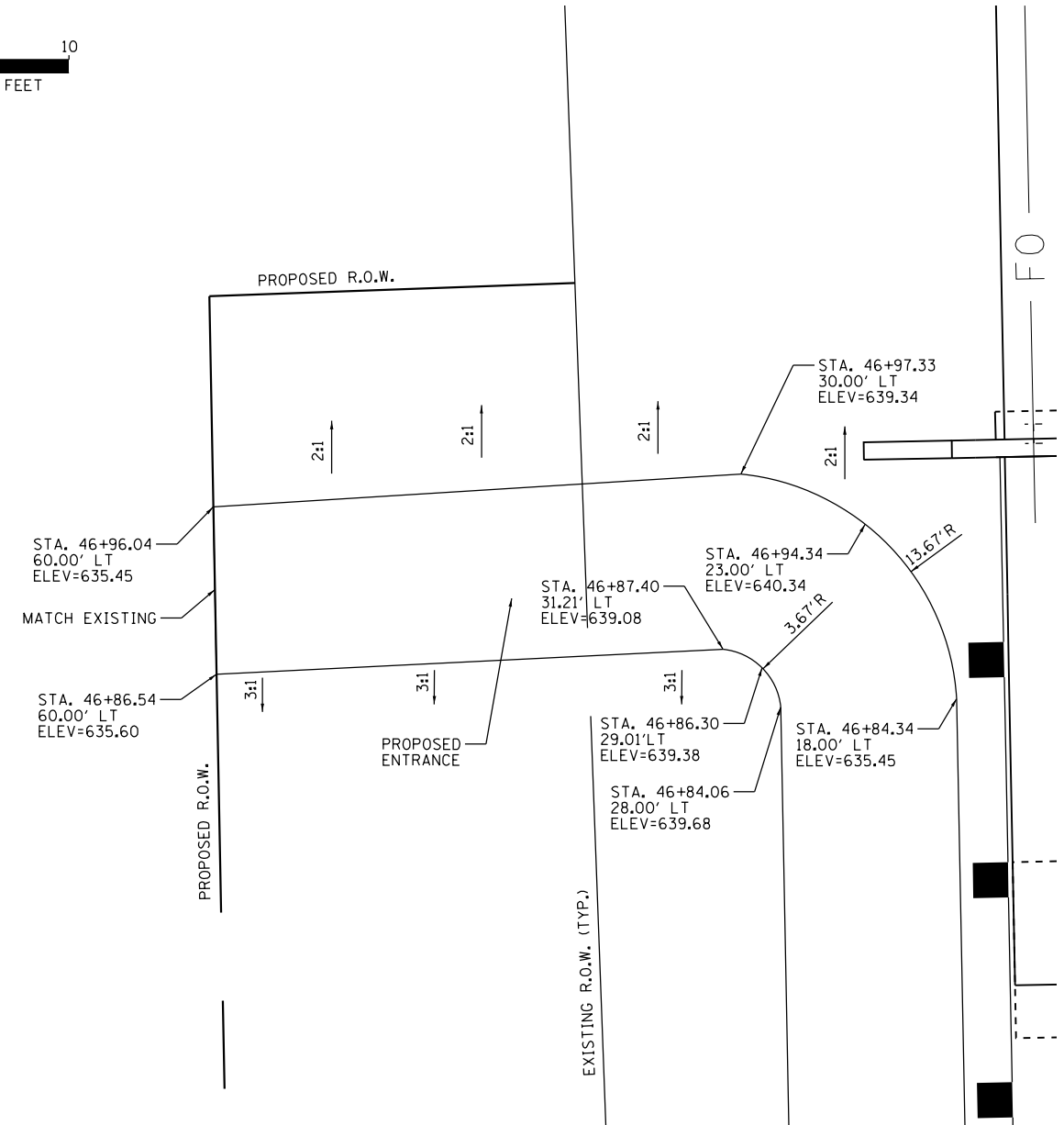
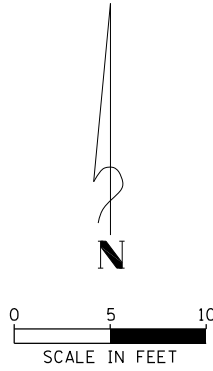
DESIGNED -
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 CHECKED -
 DATE -
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

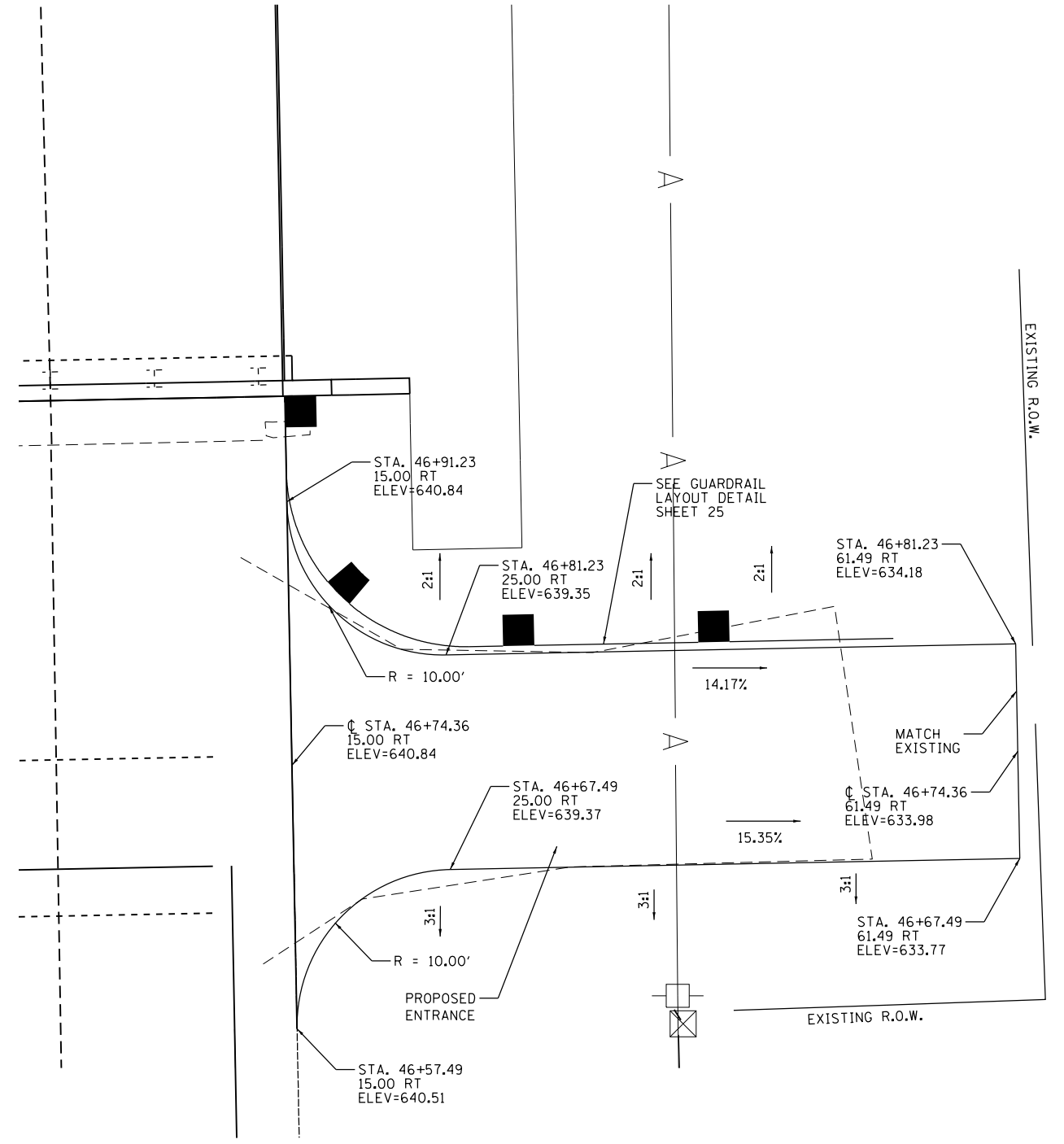
TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL) DETAIL

SHEET 1 OF 2 SHEETS STA. TO STA.

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	26
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



LEVEE ACCESS ENTRANCE DETAIL
STA. 46+91.29, LT



FIELD ENTRANCE DETAIL
STA. 46+74.36, RT

FILE NAME: S:\2016\2017\162025_00_Marshall.CH 3 Crew Creek\CADD\CADD_Sheets\04162025-ht-entrance_detailed.dgn



USER NAME = wlewis	DESIGNED -	REVISED -
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PLOT DATE = 11/6/2017	CHECKED -	REVISED -
	DATE -	REVISED -

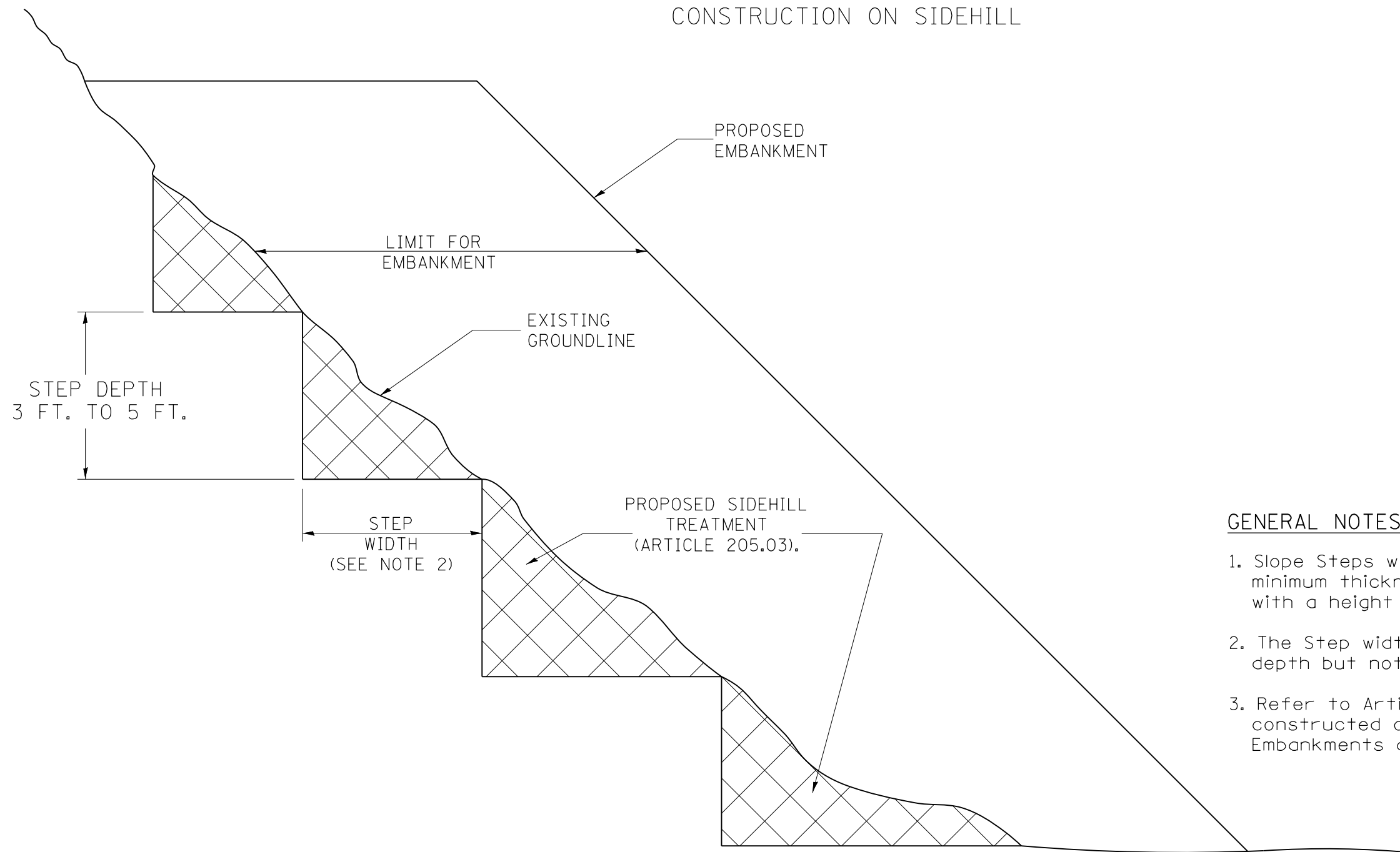
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

SHEET OF SHEETS STA. TO STA.

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	27
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				

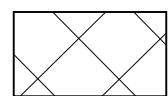
SLOPE STEPS DETAIL
 TYPICAL CROSS-SECTION EMBANKMENT
 CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

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

REPLACEMENT MATERIAL:



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

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

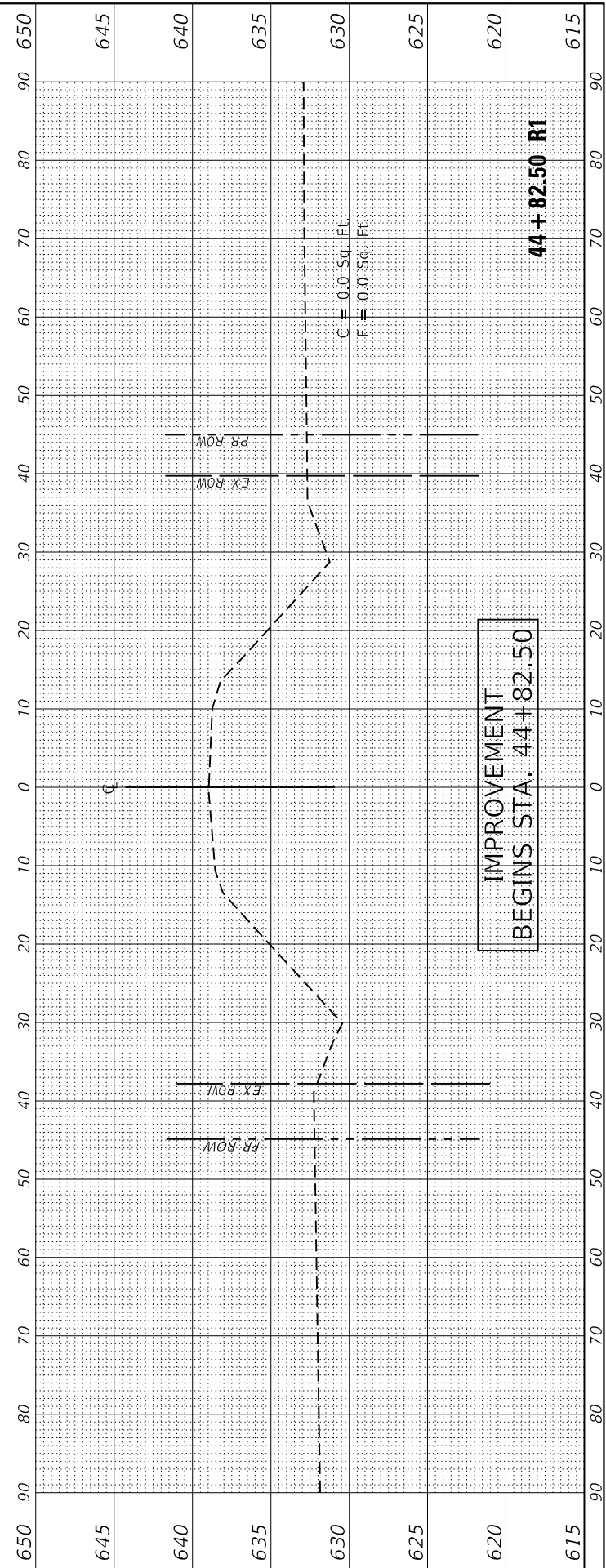
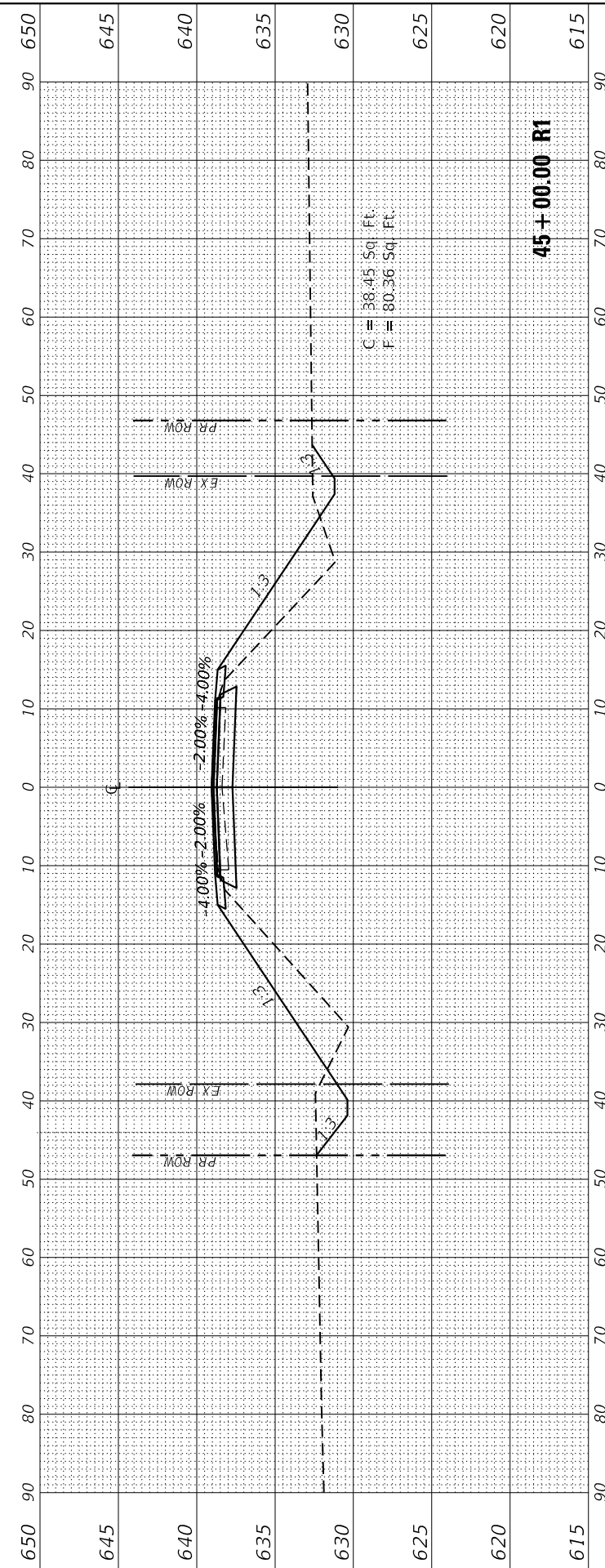
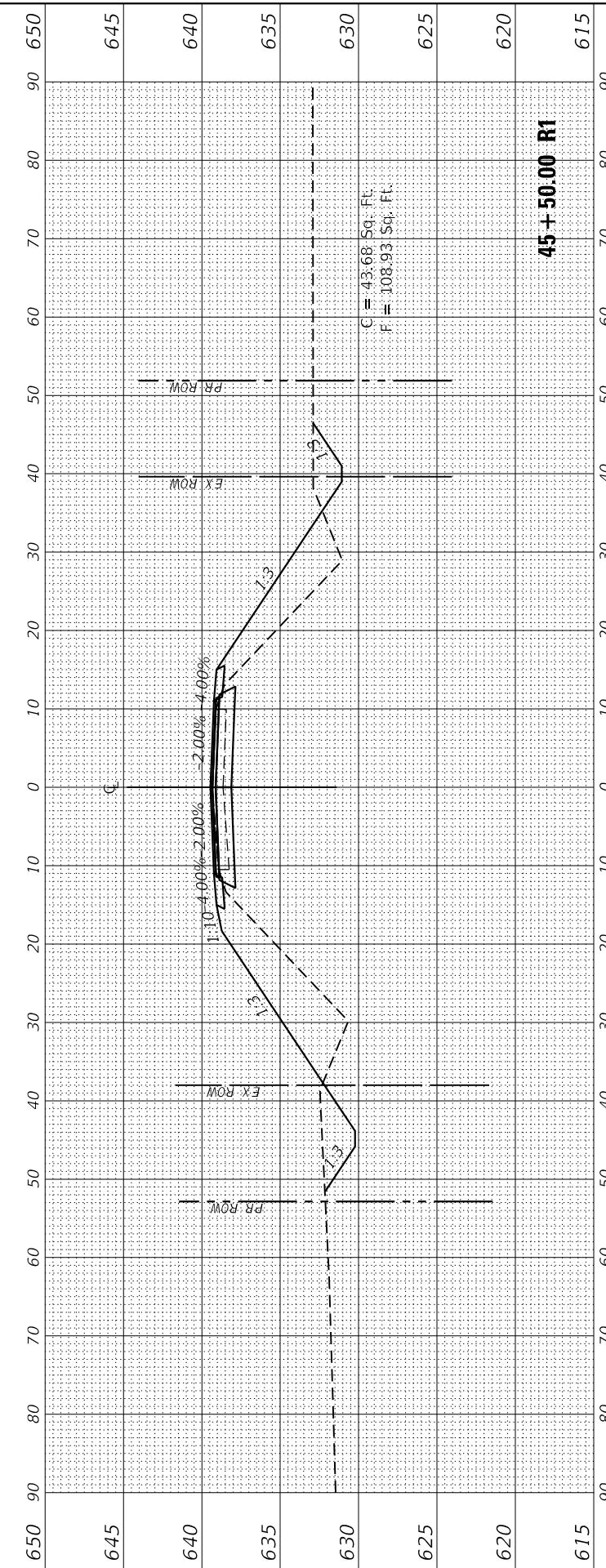
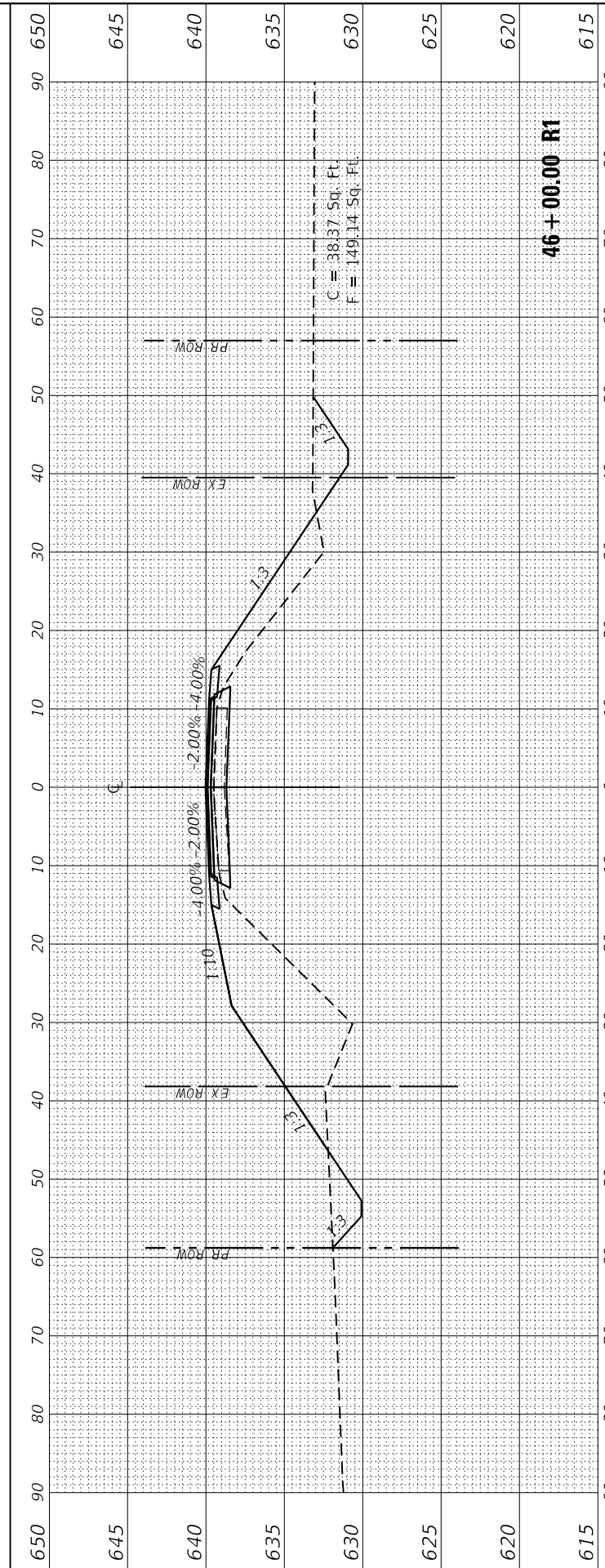
SLOPE STEPS DETAIL

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-00099-00-BR	MARSHALL	34	28
CONTRACT NO. 89702				
<small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>				

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		

FILE NAME: S:\2372016\23716008.00 (Marshall) CH 3 Crow Creek\CAD\CADD\CADD Sheets\04-16008\asmt\CR3.dgn



IMPROVEMENT
BEGINS STA. 44+82.50



USER NAME	= wlewis
PLOT SCALE	= 20,000' / 1"
PLOT DATE	= 10/26/2017

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 44+82.50 R1 TO STA. 46+00.00 R1

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-000-99-BR	MARSHALL	34	29
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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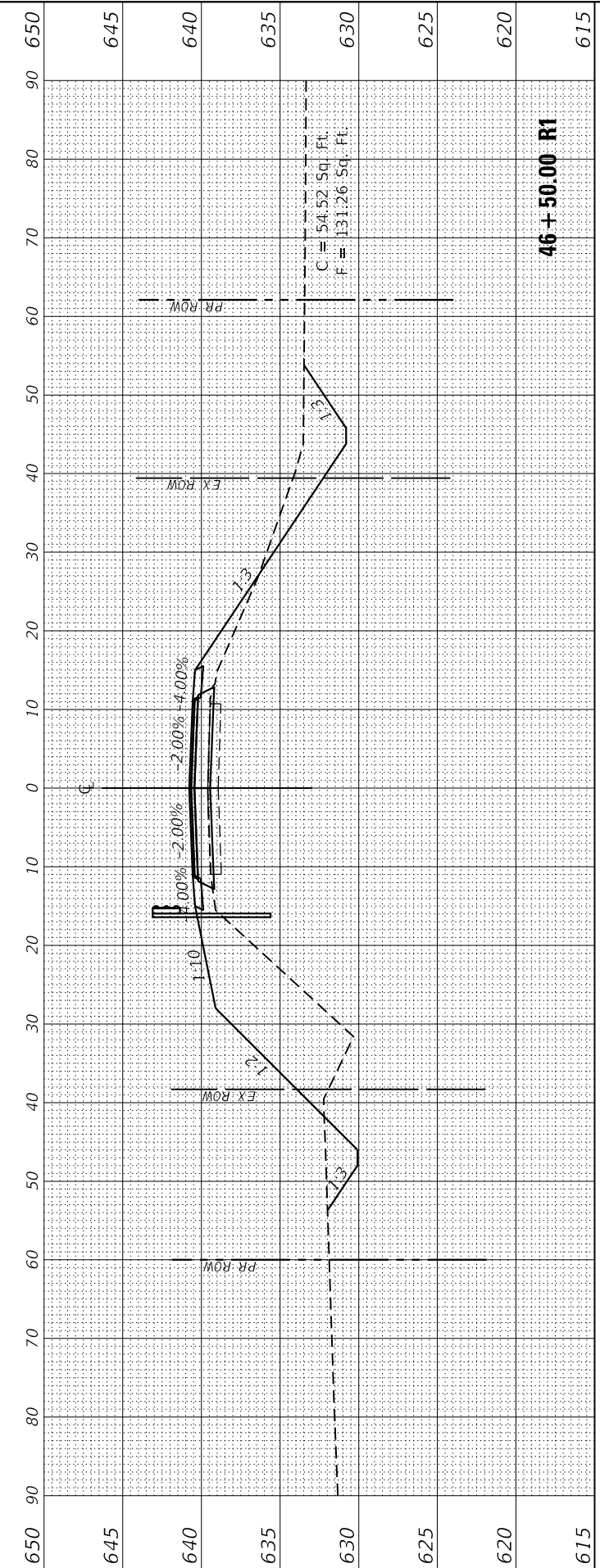
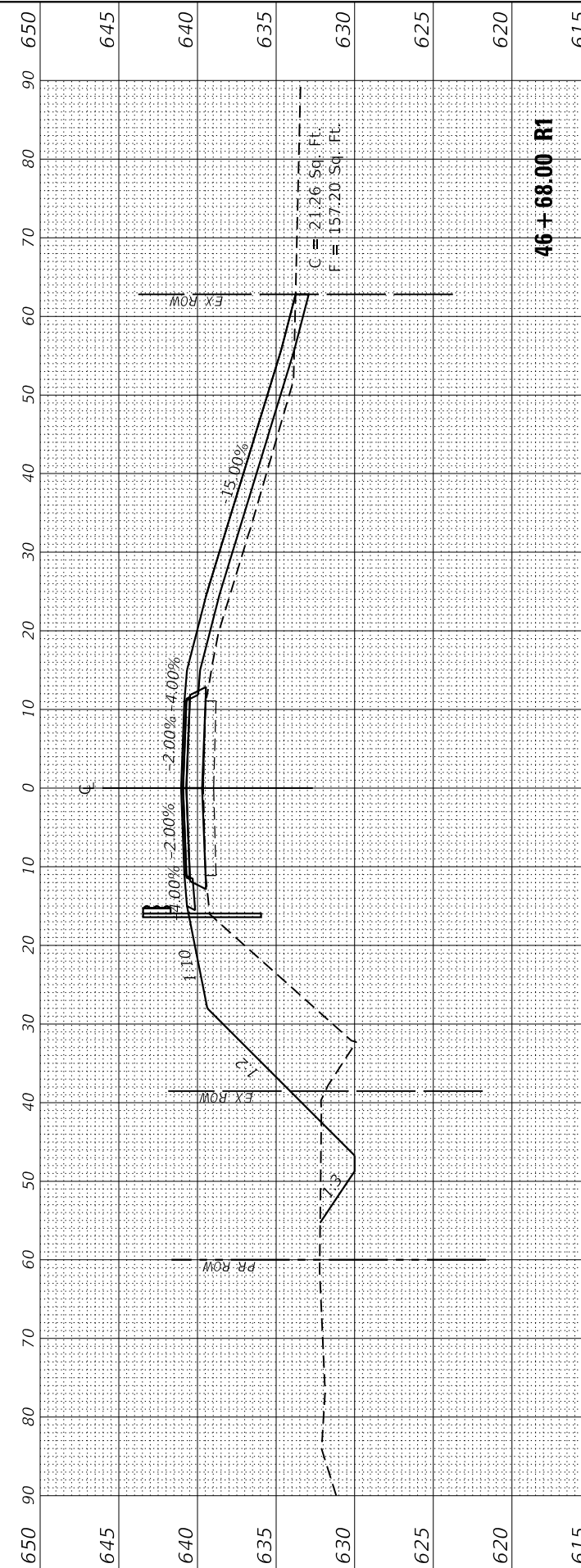
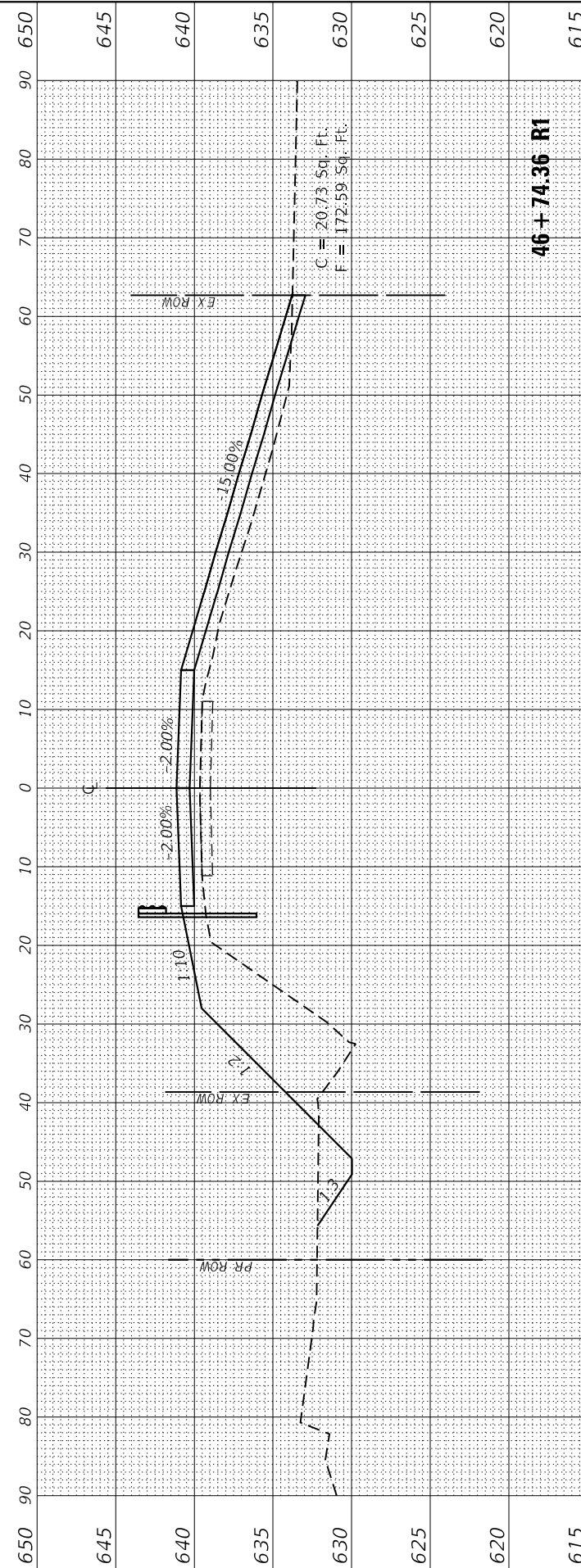
DESIGNED -	REVISÉ -
DRAWN -	REVISÉ -
CHECKED -	REVISÉ -
DATE -	REVISÉ -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 46+50.00 R1 TO STA. 46+74.36 R1

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-000-99-BR	MARSHALL	34	30
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



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

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

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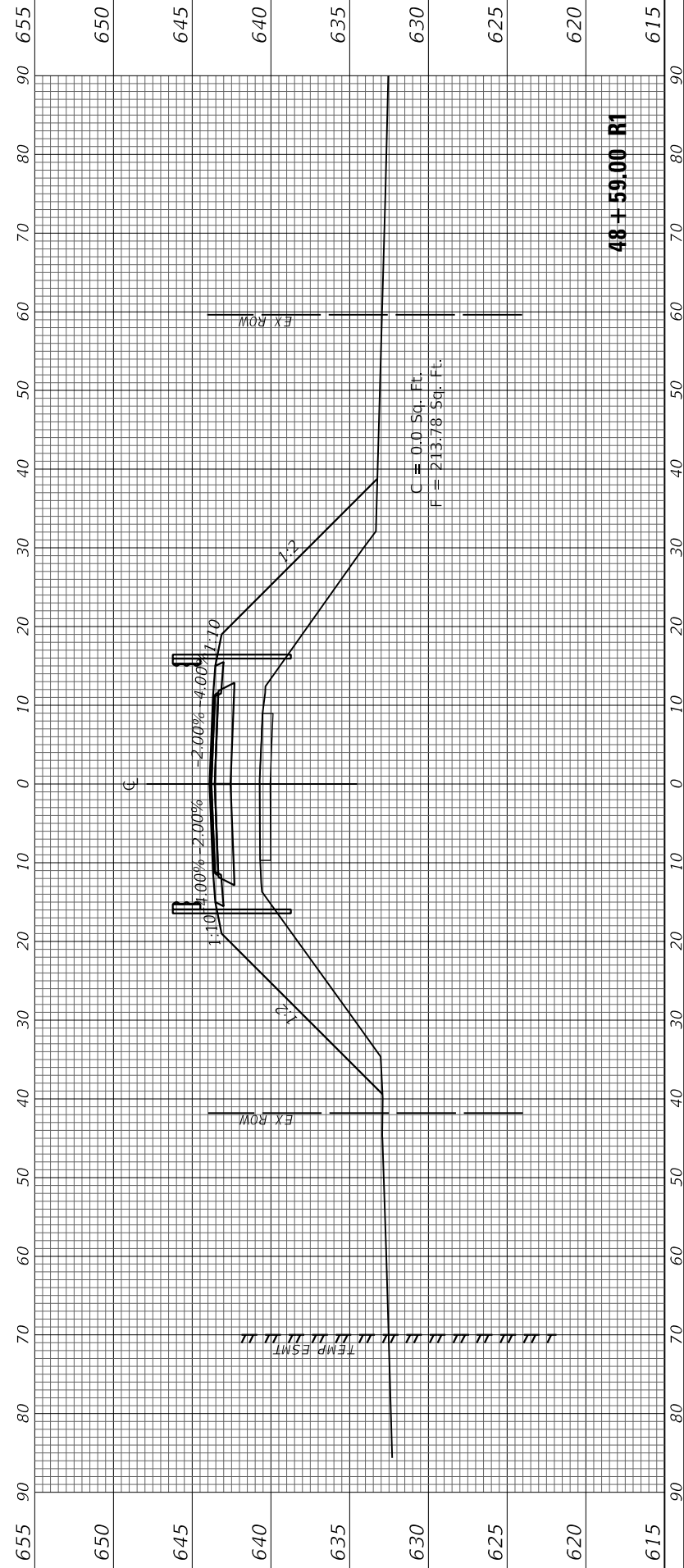
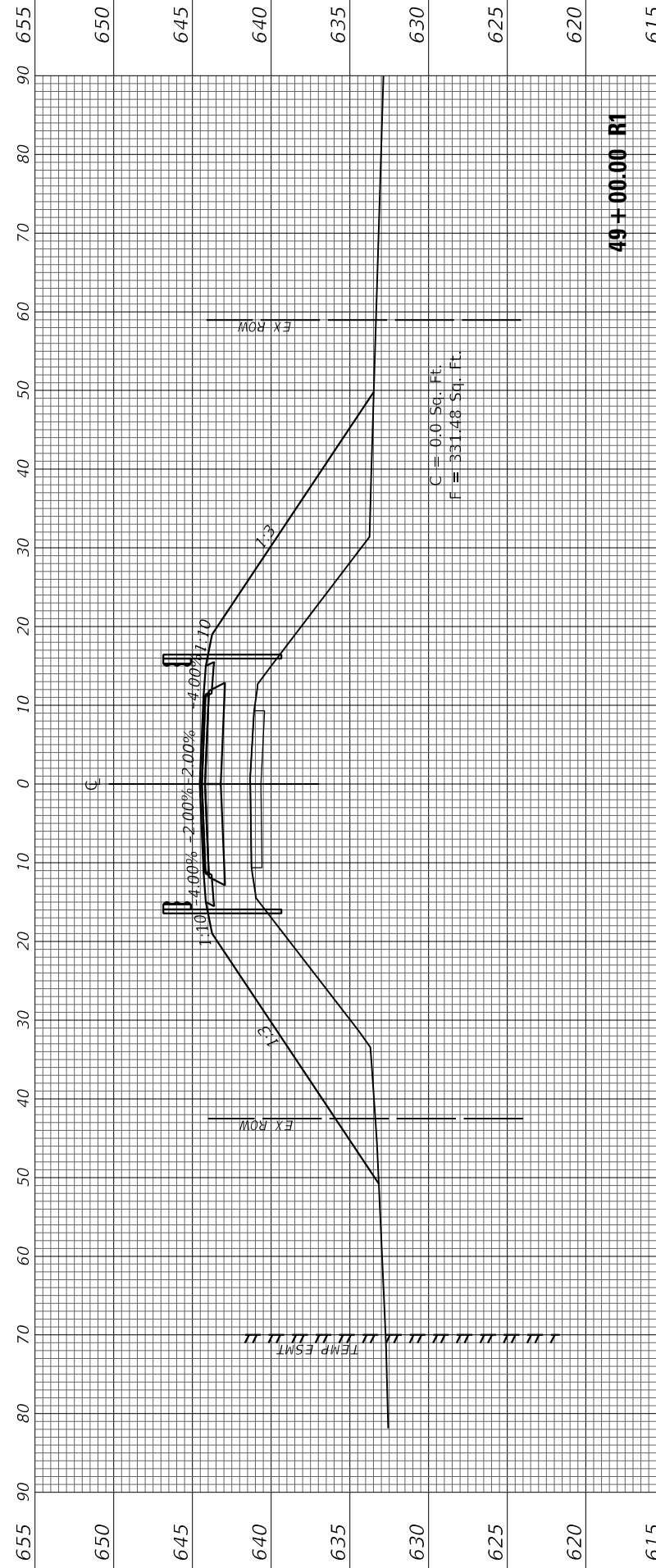
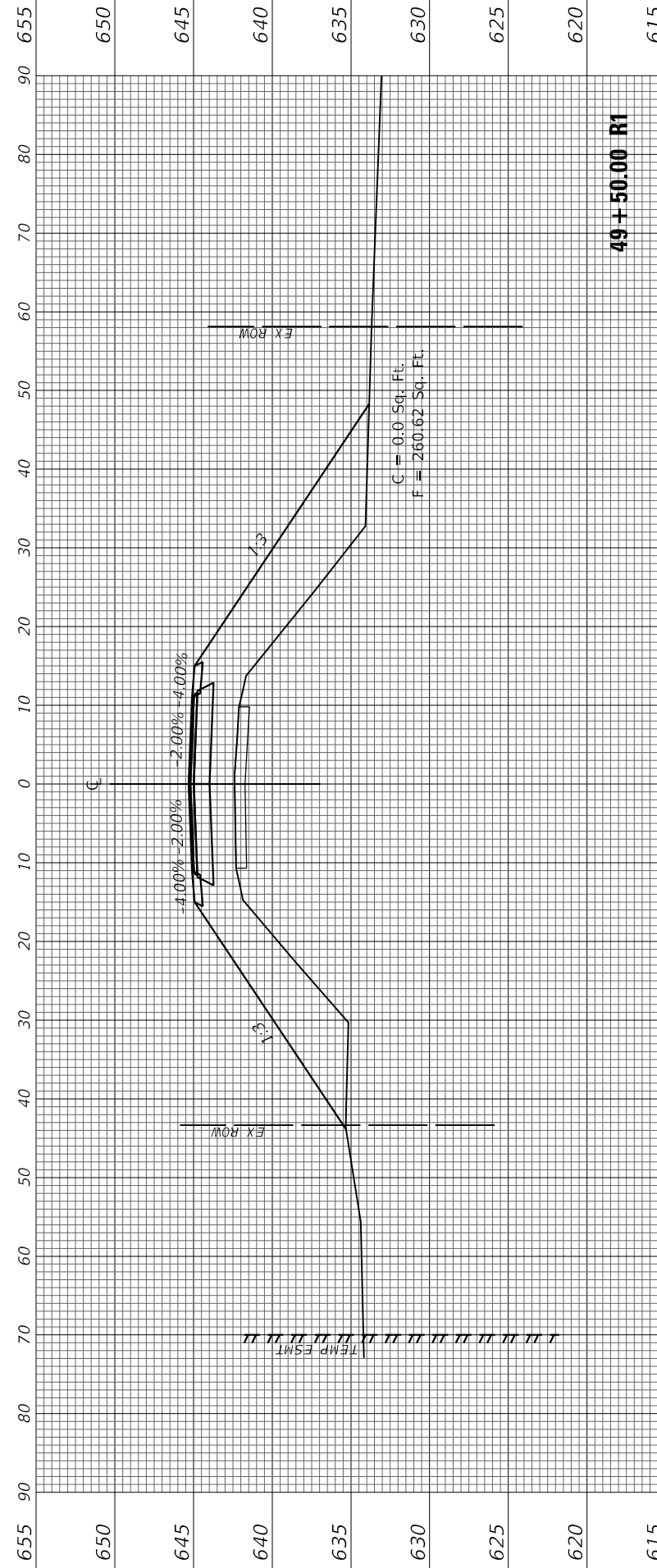
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	DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 48+59.00 R1 TO STA. 49+50.00 R1

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-000-99-BR	MARSHALL	34	31
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



NO.	DATE	BY	DATE

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FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED

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PLOT DATE = 10/30/2017	CHECKED -
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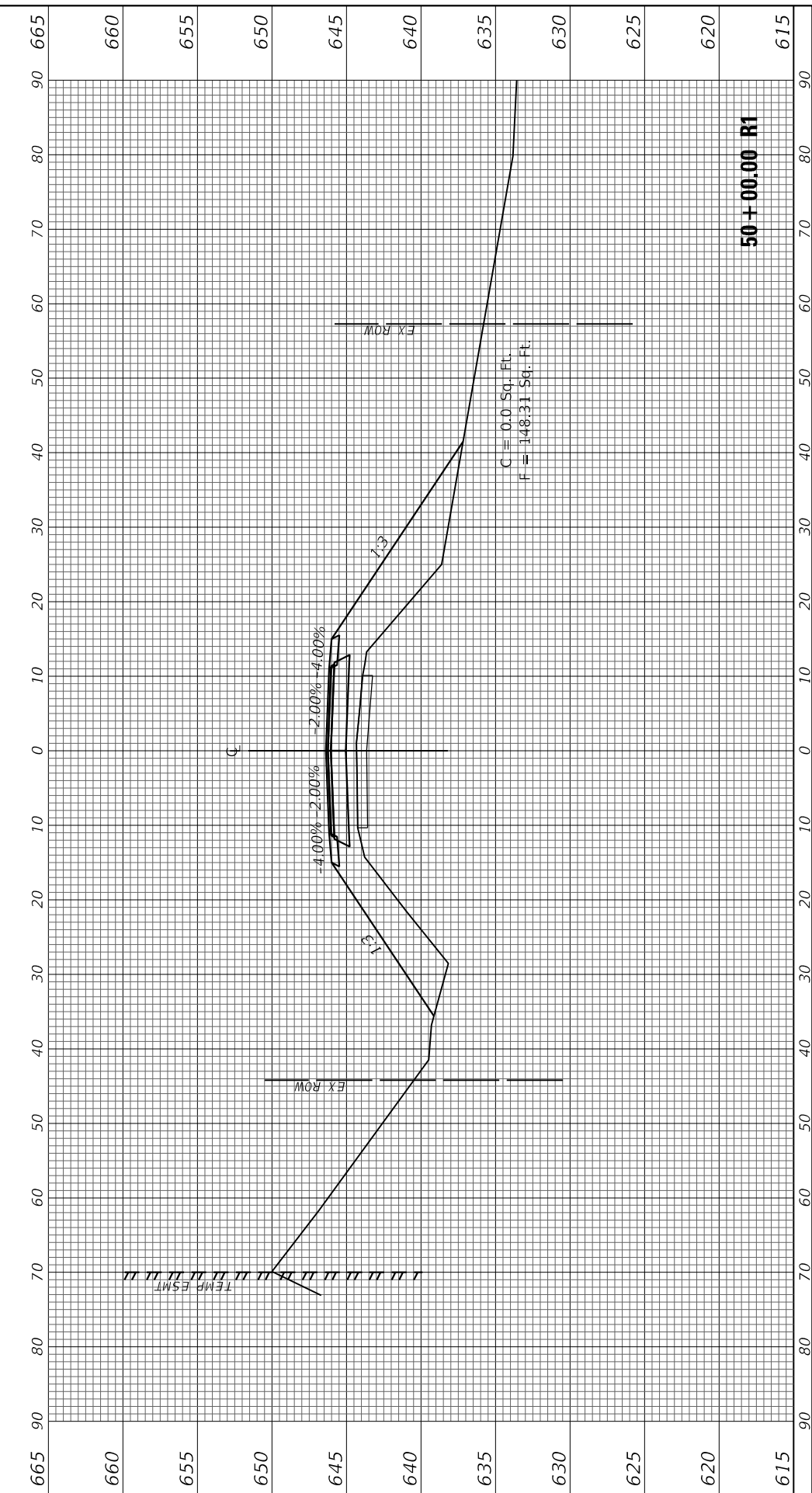
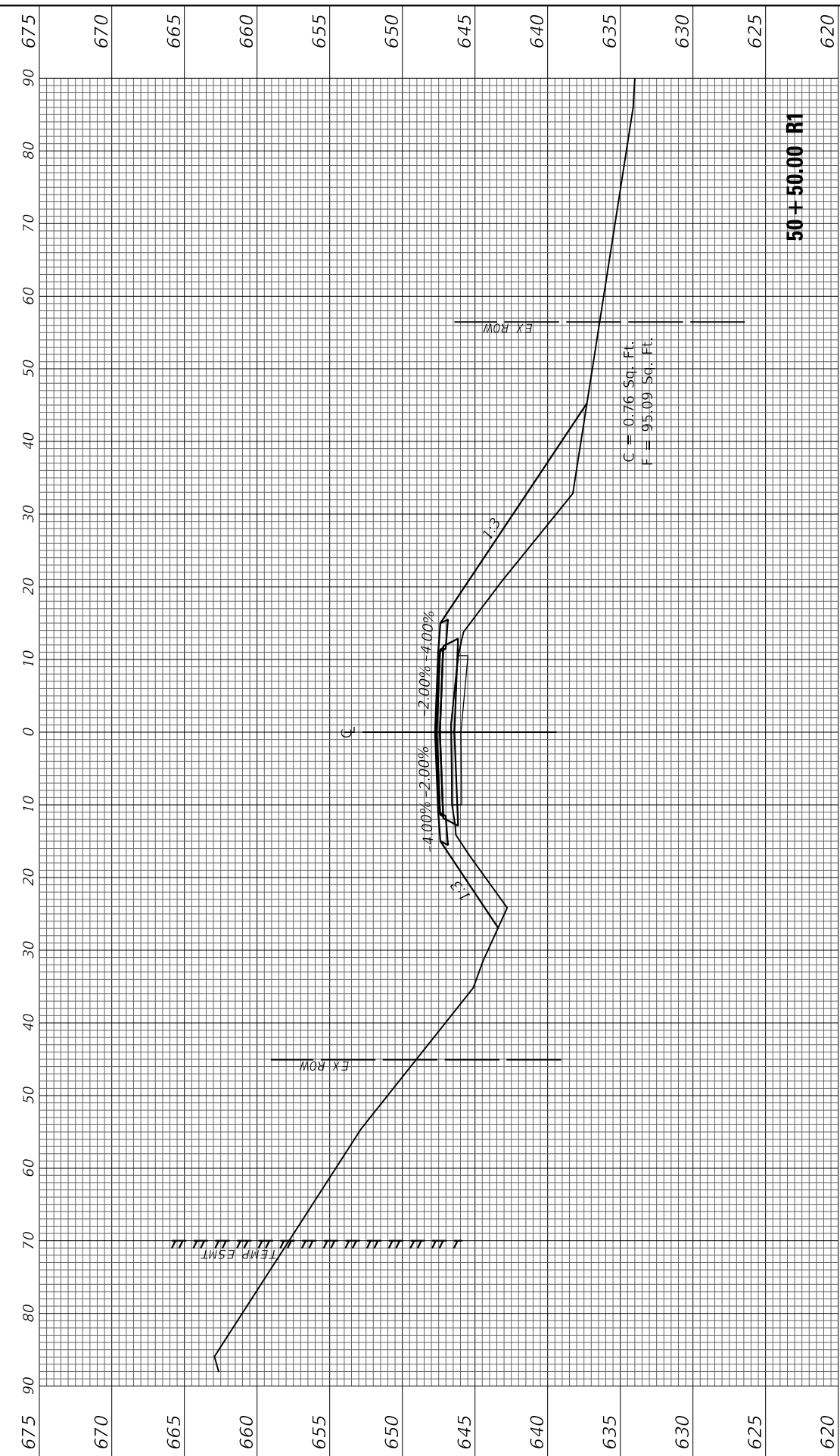
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 50+00.00 R1 TO STA. 50+50.00 R1
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CROSS SECTIONS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-000-99-BR	MARSHALL	34	32
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



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

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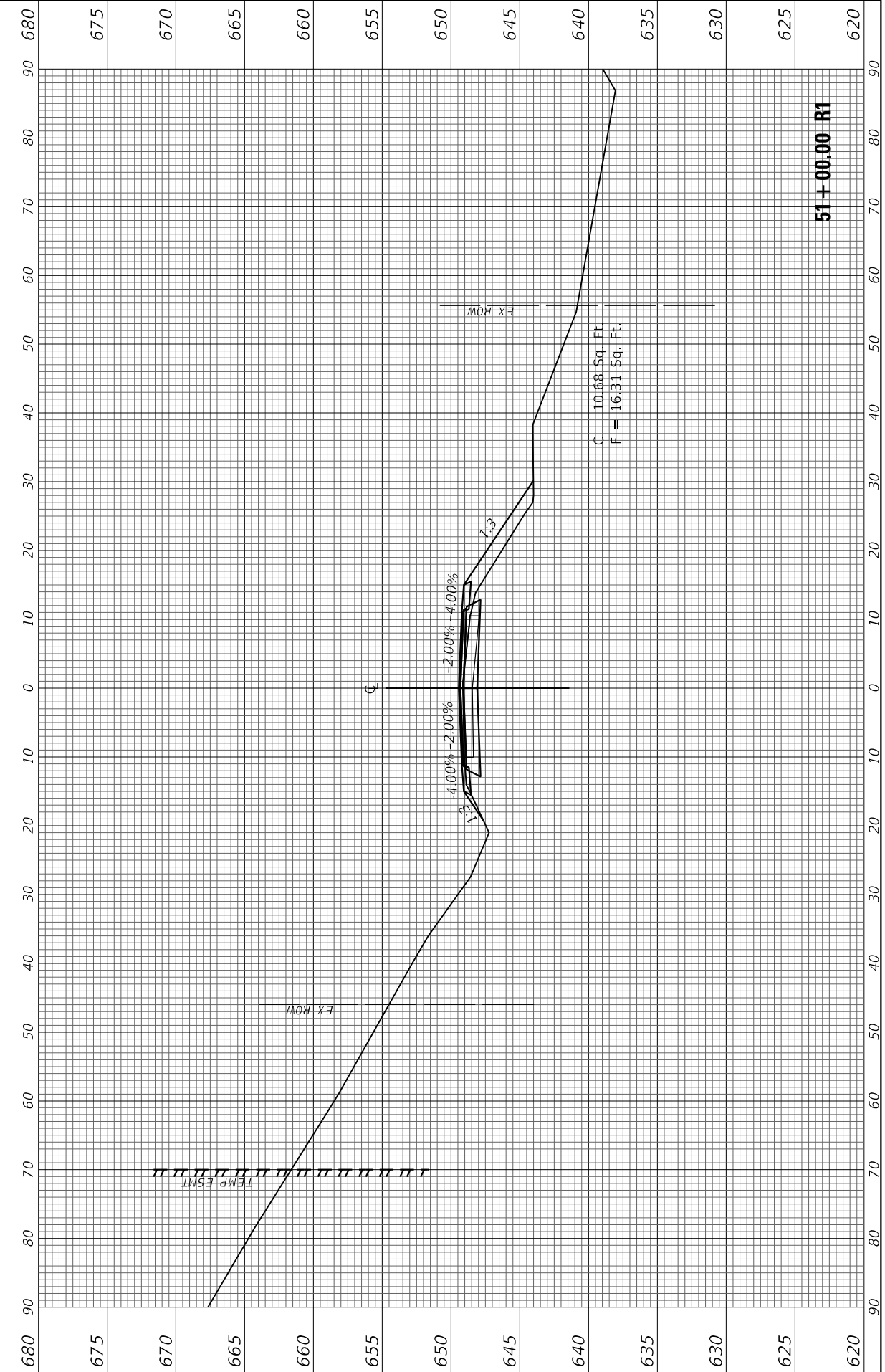
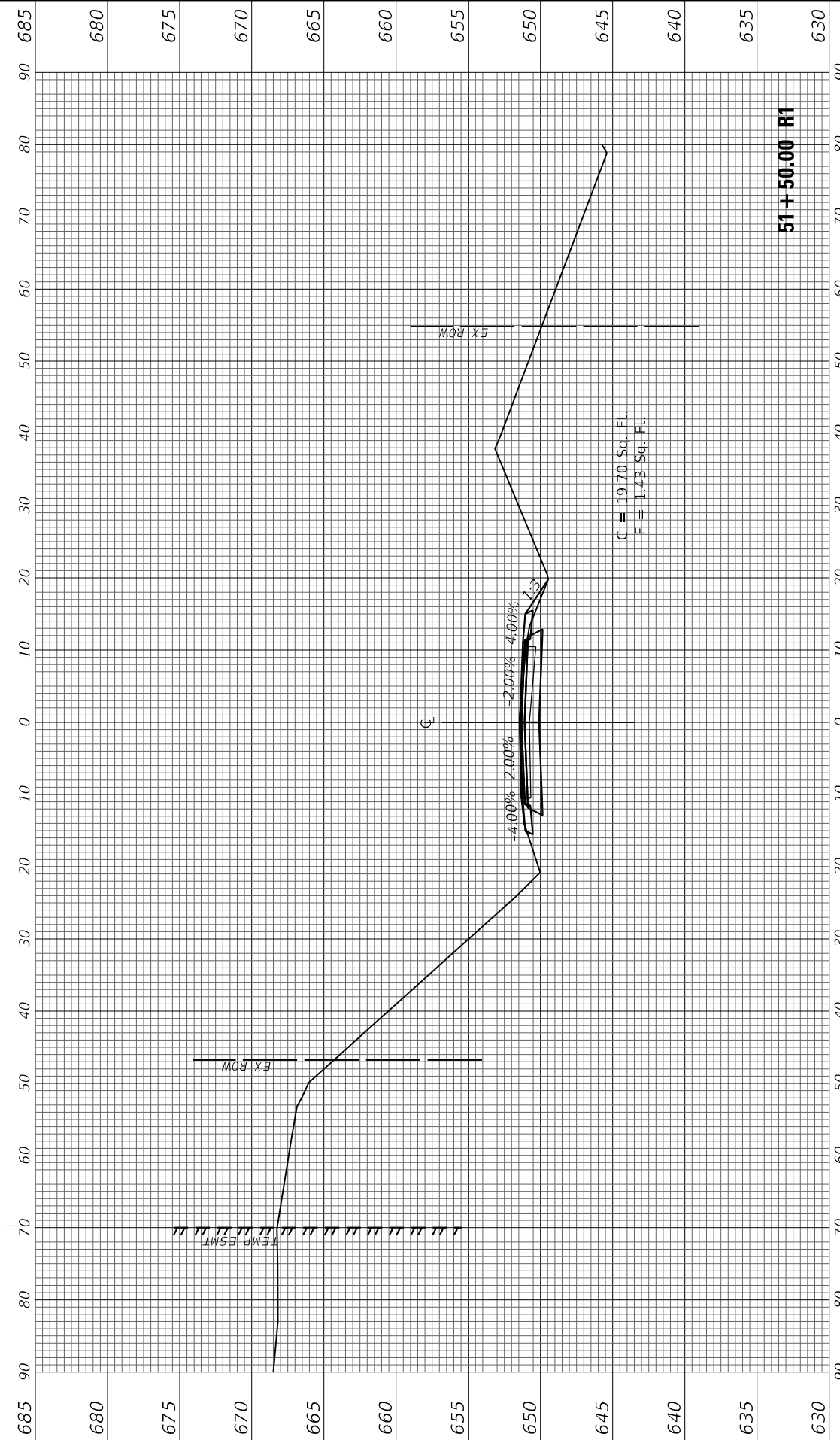
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REVISIONS	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 51+00.00 R1 TO STA. 51+50.00 R1

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-000-99-BR	MARSHALL	34	33
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



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

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NOTE BOOK	TEMPLATE AREAS CHECKED		

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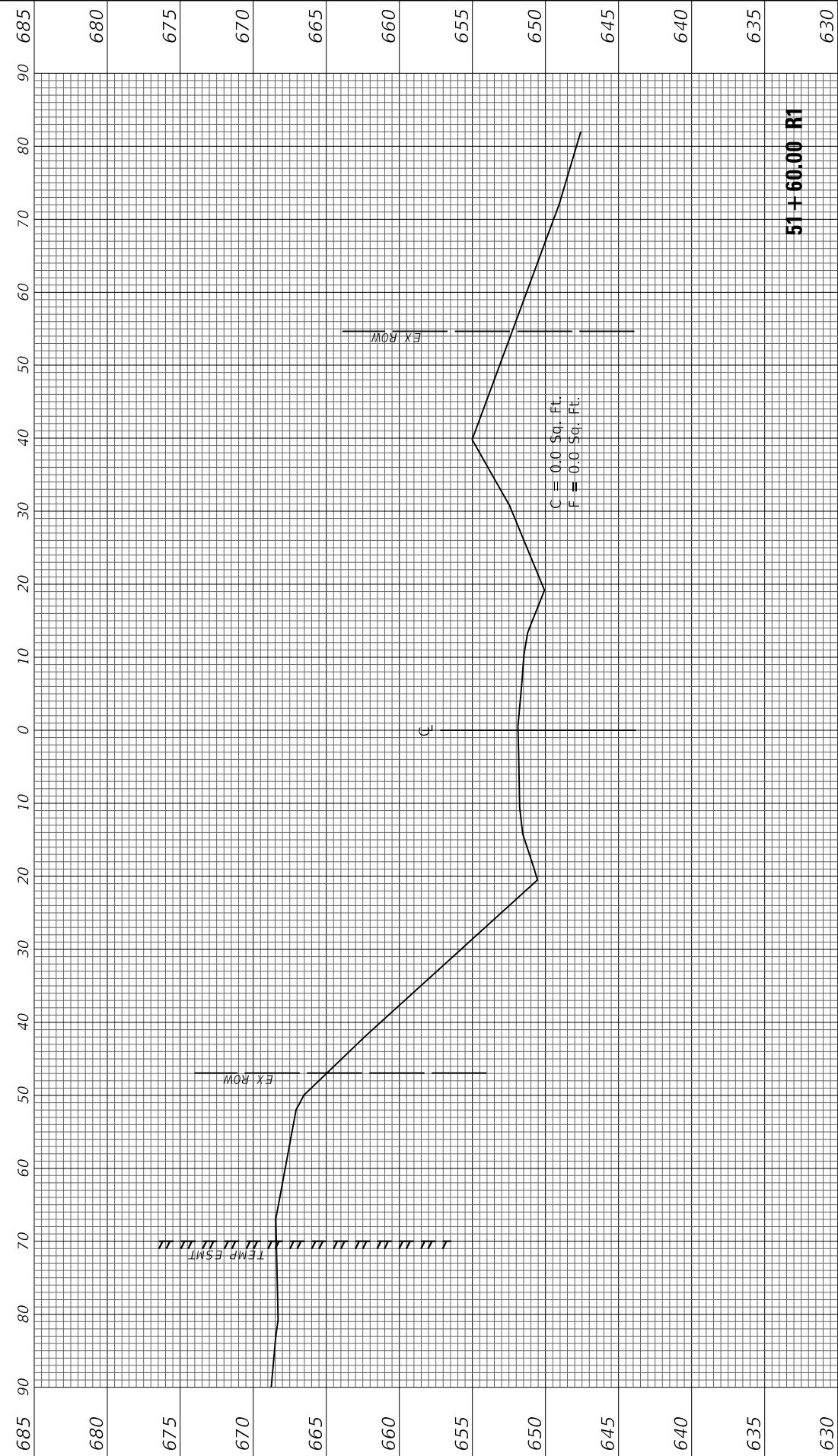
REVISIONS	REVISIONS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 51+54.00 R1 TO STA. 51+60.00 R1

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	16-000-99-BR	MARSHALL	34	34
CONTRACT NO. 89702				
ILLINOIS FED. AID PROJECT				



51+60.00 R1

IMPROVEMENT
ENDS STA 51+54.00



51+54.00 R1