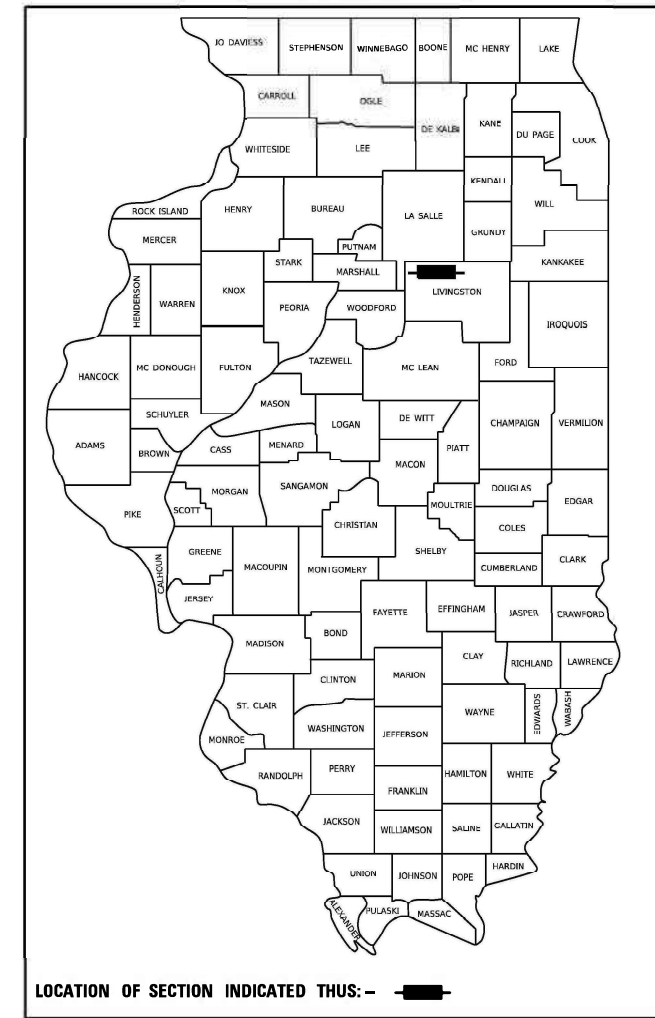


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	1
		ILLINOIS	CONTRACT NO. 66F92	

P-93-020-17
D-93-026-22
R-93-001-22



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

PROPOSED HIGHWAY PLANS

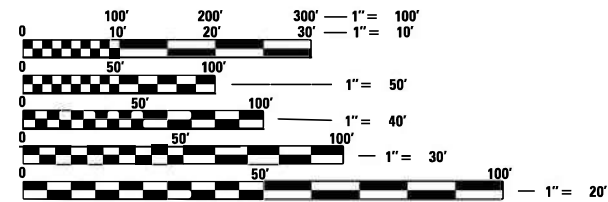
FAP 649 (IL 17)
SECTION (108BR-4)BR
PROJECT NO. HBFP-R4H2(622)
BRIDGE REPLACEMENT
LIVINGSTON COUNTY
C-93-048-22

TRAFFIC DATA - IL 17

MAJOR COLLECTOR
2019 ADT = 1000 PROJ. 2024 ADT = 1050
P.V. = 74.0% S.U. = 7.0% M.U. = 19.0%

BEGIN PROJECT (IL 17)
STA. 507 + 00.00

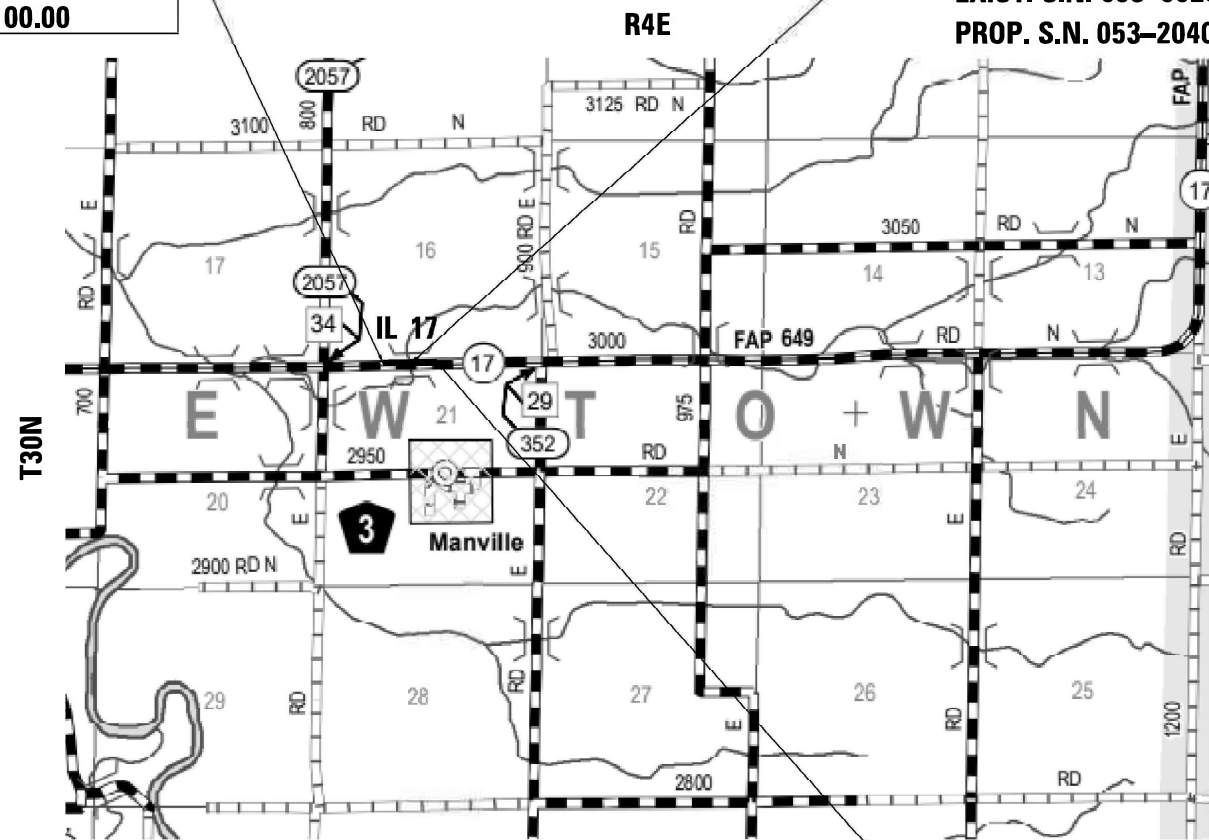
BRIDGE REMOVAL AND REPLACEMENT
STA. 510 + 21.00
EXIST. S.N. 053-0029
PROP. S.N. 053-2040



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.

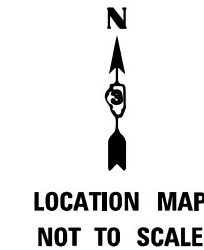
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: BRAD DUNCAN, P.E.
UNIT CHIEF: LUIS CALDERON, P.E.
TOWNSHIP(S): NEWTOWN TOWNSHIP
CONTRACT NO. 66F92



GROSS LENGTH = 625.00 FT. = 0.118 MILE
NET LENGTH = 625.00 FT. = 0.118 MILE

END PROJECT (IL 17)
STA. 513 + 25.00



EFK Moen
Civil Engineering Design

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 21 20 22
James A. Alford
REGIONAL ENGINEER

August 19, 2022
Scott A. Efk
ENGINEER OF DESIGN AND ENVIRONMENT

August 19, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX AND HIGHWAY STANDARDS
3	GENERAL NOTES
4-11	SUMMARY OF QUANTITIES
12-14	TYPICAL SECTIONS
15-18	SCHEDULE OF QUANTITIES
19-20	ALIGNMENT, TIES, AND BENCHMARKS
21	REMOVAL PLAN
22	PROPOSED PLAN & PROFILE
23	PROPOSED PLAN GUARDRAIL DETAILS
24-25	DETOUR PLAN
26	EROSION CONTROL AND LANDSCAPING PLAN
27-28	DRAINAGE & UTILITY PLANS
29	PLAT OF HIGHWAYS
30	PAVEMENT MARKING PLAN
31-38	STRUCTURE PLANS
39-44	DETAILS
45-49	CROSS SECTIONS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
542411	SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 60" (1500 mm) DIAMETER
602306-03	INLET - TYPE B
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604036-03	GRATE TYPE 8
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION: _____

INSPECTORS: _____

PREPARED BY: _____

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER



Signed: *[Signature]*
Date: 5/25/2022
License Expires: 11/30/2023
The seal shown above is valid for Sheets 01-30, and 39-49.



Signed: *[Signature]*
Date: 5/25/2022
License Expires: 11/30/2022
The seal shown above is valid for Sheets 31-38.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
INDEX AND HIGHWAY STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	2
CONTRACT NO. 66F92				
ILLINOIS			FED. AID PROJECT	

GENERAL NOTES

HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF TOPSOIL EXCAVATION AND PLACEMENT.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF EIGHT SAND BAGS PER BARRICADE.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
HMA PAVEMENT	112	LBS/SQ YD/IN
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS/SQ YD
HMA RESURFACING	112	LBS/SQ YD/IN

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
 COMED
 FRONTIER

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

COMMITMENTS

THE CONDITION OF THE LOCAL ROUTES ADJACENT TO THE PROJECT LOCATION WILL BE DOCUMENTED BEFORE AND AFTER AND MONITORED PERIODICALLY BY THE RESIDENT ENGINEER DURING CONSTRUCTION TO ENSURE THERE ARE NO SAFETY CONCERNS OR DAMAGES. THE DEPARTMENT WILL REPAIR DAMAGES (IF ANY) DUE TO THE ADDITIONAL TRAFFIC VOLUME ANTICIPATED. THE FOLLOWING LOCAL ROUTES INCLUDE TR 40 (N 700 E RD), TR 52 (N 800 E RD), TR 31 (E 2950 N RD), AND FAS 352 (N 900 E RD).

TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED APRIL 1 THROUGH SEPTEMBER 30.

THE TEMPORARY STEEL SUPPORT BEAMS SHALL BE SALVAGED FROM EXISTING STRUCTURE.

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	HMA RESURFACING	HMA RESURFACING	HMA RESURFACING	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BASE COURSE	HMA SURFACE COURSE	HMA BINDER COURSE	HMA SHOULDER TOP LIFT	HMA SHOULDER BOTTOM LIFT(S)	INCIDENTAL HMA
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-19.0	IL-9.5	IL-19.0	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:		MIXTURE C				MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES	CORES	CORES	CORES	CORES
MATERIAL TRANSFER DEVICE (REQUIRED)	NO	NO	NO	NO	NO	NO

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
 GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	3
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	6	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	72	72	
20200100	EARTH EXCAVATION	CU YD	450	450	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	68	68	
20400800	FURNISHED EXCAVATION	CU YD	297	297	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	552		552
20800150	TRENCH BACKFILL	CU YD	19	19	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	275		275
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	650	650	
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	76	76	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	76	76	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	76	76	
25100630	EROSION CONTROL BLANKET	SQ YD	3523	3523	

* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	4
			CONTRACT NO. 66F92	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	538	538	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250	250	
28000305	TEMPORARY DITCH CHECKS	FOOT	80	80	
28000400	PERIMETER EROSION BARRIER	FOOT	1534	1534	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28100107	STONE RIPRAP, CLASS A4	SQ YD	170		170
28200200	FILTER FABRIC	SQ YD	170		170
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	287	287	
31101600	SUBBASE GRANULAR MATERIAL, TYPE B 8"	SQ YD	226	226	
35501310	HOT-MIX ASPHALT BASE COURSE, 6 1/2"	SQ YD	259	259	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	115	115	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2364	2364	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1484	1484	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2	

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	5
			CONTRACT NO. 66F92	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	456	456	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	153	153	
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	509	509	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	38	38	
44000100	PAVEMENT REMOVAL	SQ YD	43	43	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	240	240	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	42	42	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	255	255	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	158	158	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	92		92
50800105	REINFORCEMENT BARS	POUND	48120		48120
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1980		1980
51500100	NAME PLATES	EACH	1		1

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	6
			CONTRACT NO. 66F92	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
54003000	CONCRETE BOX CULVERTS	CU YD	238.9		238.9
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	82	82	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	86	86	
54260718	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 18", 1:6	EACH	1	1	
54262715	METAL FLARED END SECTIONS 15"	EACH	2	2	
54262718	METAL FLARED END SECTIONS 18"	EACH	3	3	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	205		205
60100915	PIPE DRAINS 6"	FOOT	10	10	
60100925	PIPE DRAINS 8"	FOOT	10	10	
60100935	PIPE DRAINS 10"	FOOT	10	10	
60100945	PIPE DRAINS 12"	FOOT	10	10	
60100955	PIPE DRAINS 15"	FOOT	10	10	
60100965	PIPE DRAINS 18"	FOOT	10	10	
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1	

* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	7
			CONTRACT NO. 66F92	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
60500060	REMOVING INLETS	EACH	1	1	
61100605	MISCELLANEOUS CONCRETE	CU YD	10	10	
61101007	STORM SEWERS PROTECTED, CLASS A, 6"	FOOT	10	10	
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	10	10	
61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	10	10	
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	10	10	
61101017	STORM SEWERS PROTECTED, CLASS A, 15"	FOOT	10	10	
61101020	STORM SEWERS PROTECTED, CLASS A, 18"	FOOT	10	10	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1	1	
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1	1	
61139900	STORM SEWERS (SPECIAL), 6"	FOOT	10	10	
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	10	10	
61140100	STORM SEWERS (SPECIAL), 10"	FOOT	10	10	
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	10	10	

* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	8
			CONTRACT NO. 66F92	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
61140400	STORM SEWERS (SPECIAL), 15"	FOOT	10	10	
61140600	STORM SEWERS (SPECIAL), 18"	FOOT	10	10	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	431	431	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	69		69
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	626	626	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	106	106	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	120	120	
* 72400310	REMOVE SIGN PANEL - TYPE I	SQ FT	12	12	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2500	2500	

* = SPECIALTY ITEM

* SPECIALTY ITEMS

MODEL Path: \\...
FILE NAME: 23-20027.11 DDOT 03 PFE194 WO11 IL 17 Culvert Replacement\CGM\Design\Prelim\PSheets\0266F92-shc-500.dgn



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DRAWN - SK	REVISIONS -	
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	9
			CONTRACT NO. 66F92	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BOX CULVERT
				0004	0010
				RURAL	S.N. 053-2040
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	313	313	
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1250	1250	
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	157	157	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8	
X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	8	8	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	205		205
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50	50	
X4020700	AGGREGATE SURFACE COURSE, TYPE B 8"	SQ YD	124	124	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	835	835	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	108	108	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

*= SPECIALTY ITEM

* SPECIALTY ITEMS

MODEL Path: \\...
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	DRAWN - SK	REVISED -
PLOT SCALE = 40,0000 */ in.	CHECKED - RG	REVISED -
PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	10
			CONTRACT NO. 66F92	
		ILLINOIS	FED. AID PROJECT	

EXISTING LEGEND

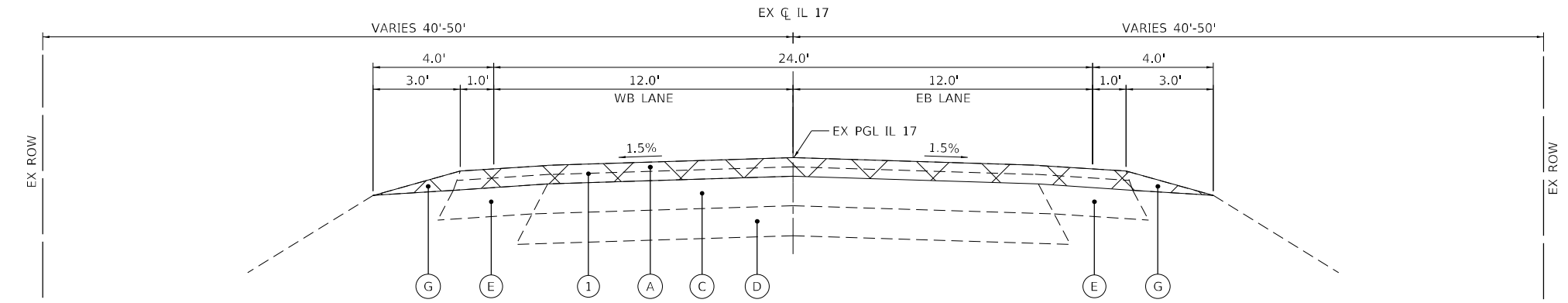
- (A) EX HOT-MIX ASPHALT SURFACE, ± 2-1/2"
- (B) EX HOT-MIX ASPHALT OVERLAY PAVEMENT, ± 1-1/2"
- (C) EX BITUMINOUS OVERLAY PAVEMENT, ± 9"
- (D) EX CONTINUOUSLY REINFORCED CONCRETE PAVEMENT, ± 9"
- (E) EX BITUMINOUS CONCRETE BASE COURSE WIDENING, ± 9"
- (F) EX CONCRETE SLAB, ± 6"
- (G) EX AGGREGATE SHOULDERS
- (H) EX GUARDRAIL
- (I) EX GUARDRAIL ATTACHED TO PARAPET
- (J) EX ATTACHED TEMPORARY STEEL BEAM, W27X94 (TYP)
- (K) EX APPROACH SLAB, ± 16-1/2"
- REMOVAL ITEM

PROPOSED LEGEND

- (1) PR HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (0" TO 3-3/4") (SEE NOTE 1)
- (2) PR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1-1/2"
- (3) PR HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"
- (4) PR HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH (SEE NOTE 2)
- (5) PR HOT-MIX ASPHALT BASE COURSE, 6-1/2"
- (6) PR HOT-MIX ASPHALT SHOULDERS, 8" (SEE NOTE 4)
- (7) PR SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (8) PR AGGREGATE WEDGE SHOULDER, TYPE B
- (9) PR GUARDRAIL (SEE ROADWAY PLANS)
- (10) PR TOPSOIL & SEEDING (SEE LANDSCAPING PLANS)
- (11) PR POROUS GRANULAR EMBANKMENT (SEE STRUCTURAL PLANS)

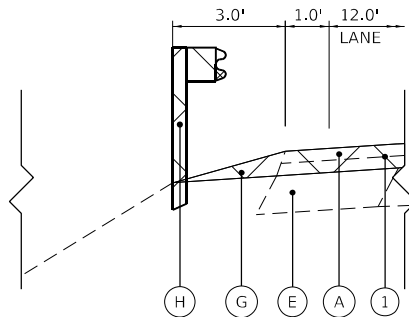
NOTES:

1. HMA SURFACE REMOVAL WILL VARY FROM 0" WHEN PROPOSED SURFACE IS 3-3/4" HIGHER THAN EXISTING SURFACE TO 3-3/4" WHEN PROPOSED SURFACE IS THE SAME AS EXISTING.
2. WHEN THE ELEVATION DIFFERENCE BETWEEN THE PROPOSED AND EXISTING SURFACES IS GREATER THAN 3-3/4", ADDITIONAL HMA BINDER COURSE OF VARYING THICKNESS SHALL BE PLACED TO MEET THE ELEVATION DIFFERENCE BETWEEN THE PROPOSED AND EXISTING SURFACE.
3. LONGITUDINAL JOINT SEALANT (UNDER SURFACE LIFT)
4. HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL IN ACCORDANCE WITH STANDARD 630201-07

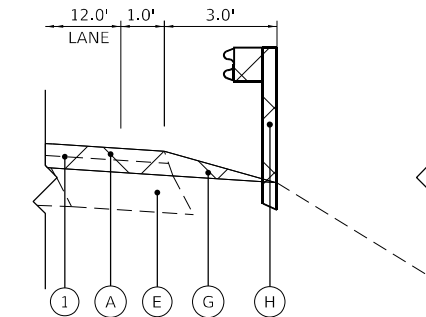


EXISTING IL 17 TYPICAL SECTION

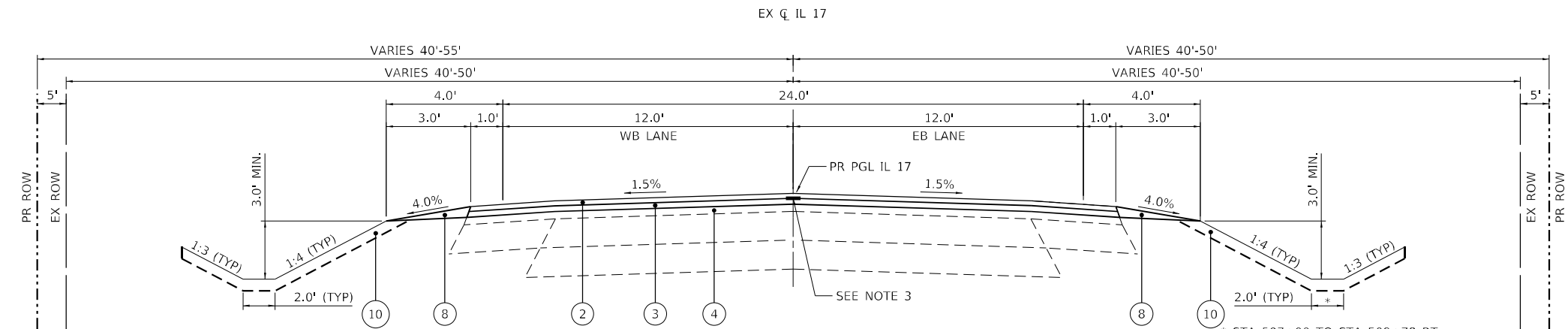
STA 507+00 TO STA 509+78
STA 510+64 TO STA 513+25



STA 508+91 TO STA 509+78
STA 510+64 TO STA 512+54

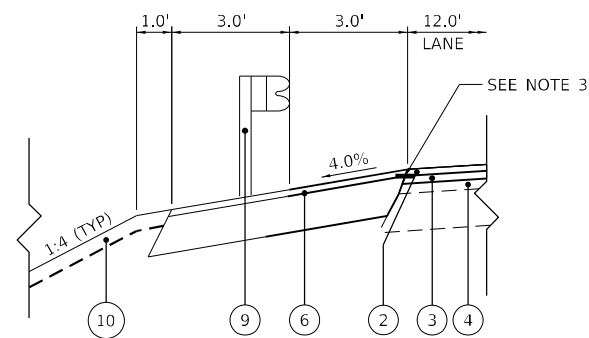


STA 509+14 TO STA 509+78
STA 510+64 TO STA 511+76

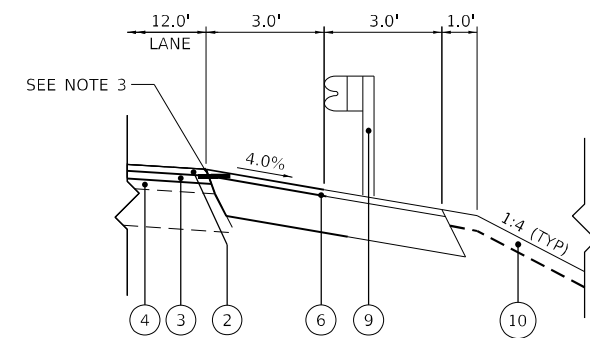


PROPOSED IL 17 TYPICAL SECTION

STA 507+00 TO STA 509+78
STA 510+64 TO STA 513+25



STA 508+87 TO STA 509+78
STA 510+64 TO STA 512+34




STA 508+08 TO STA 509+78
STA 510+64 TO STA 511+55

MODEL: Default
FILE NAME: 20230027.11.DDOT.D3.PBE194.W011.IL.17.Culvert_Replacement.DGN.Design.Prelim\Bschmitt\0366f92-shc-tyr\csh.dgn

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	DRAWN - SK	REVISED -
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 12
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	

EXISTING LEGEND

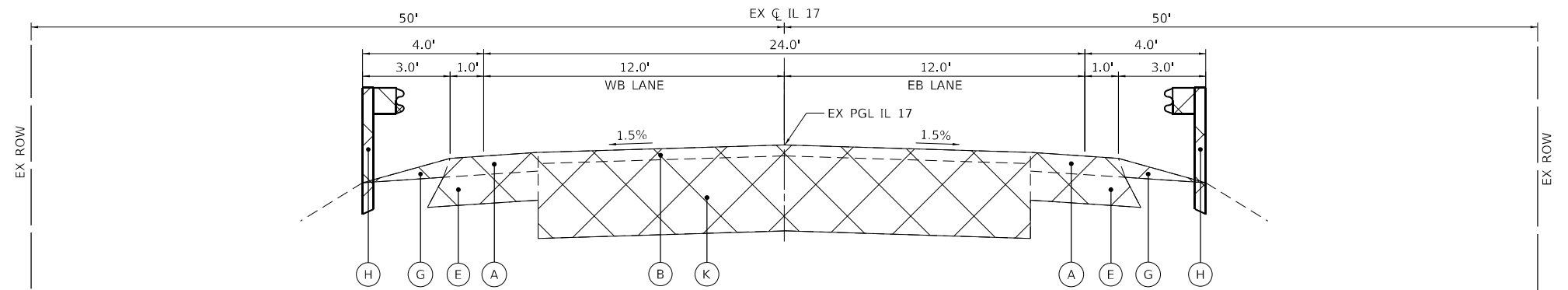
- (A) EX HOT-MIX ASPHALT SURFACE, ± 2-1/2"
- (B) EX HOT-MIX ASPHALT OVERLAY PAVEMENT, ± 1-1/2"
- (C) EX BITUMINOUS OVERLAY PAVEMENT, ± 9"
- (D) EX CONTINUOUSLY REINFORCED CONCRETE PAVEMENT, ± 9"
- (E) EX BITUMINOUS CONCRETE BASE COURSE WIDENING, ± 9"
- (F) EX CONCRETE SLAB, ± 6"
- (G) EX AGGREGATE SHOULDERS
- (H) EX GUARDRAIL
- (I) EX GUARDRAIL ATTACHED TO PARAPET
- (J) EX ATTACHED TEMPORARY STEEL BEAM, W27X94 (TYP)
- (K) EX APPROACH SLAB, ± 16-1/2"
-  REMOVAL ITEM

PROPOSED LEGEND

- ① PR HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (0" TO 3-3/4") (SEE NOTE 1)
- ② PR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1-1/2"
- ③ PR HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"
- ④ PR HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH (SEE NOTE 2)
- ⑤ PR HOT-MIX ASPHALT BASE COURSE, 6-1/2"
- ⑥ PR HOT-MIX ASPHALT SHOULDERS, 8" (SEE NOTE 4)
- ⑦ PR SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- ⑧ PR AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PR GUARDRAIL (SEE ROADWAY PLANS)
- ⑩ PR TOPSOIL & SEEDING (SEE LANDSCAPING PLANS)
- ⑪ PR POROUS GRANULAR EMBANKMENT (SEE STRUCTURAL PLANS)

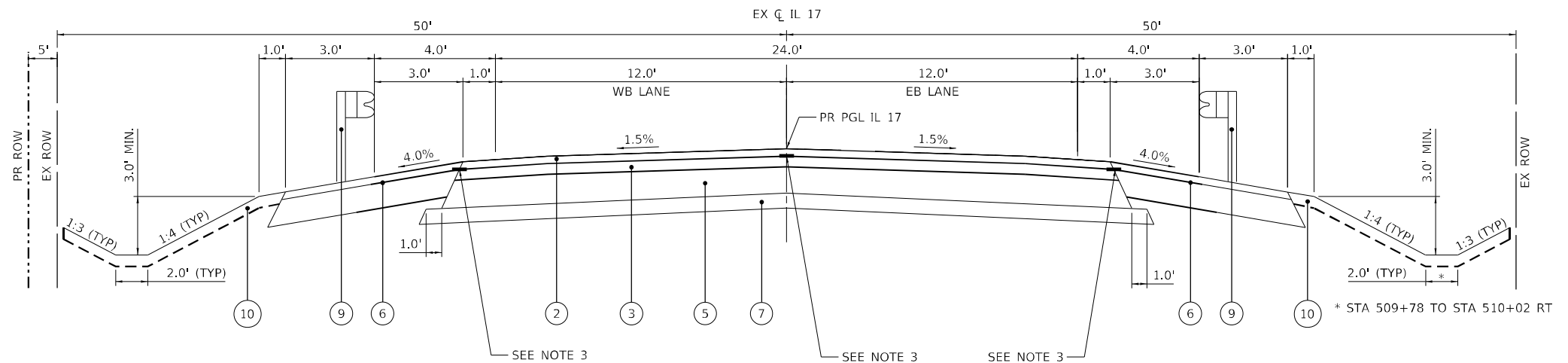
NOTES:

1. HMA SURFACE REMOVAL WILL VARY FROM 0" WHEN PROPOSED SURFACE IS 3-3/4" HIGHER THAN EXISTING SURFACE TO 3-3/4" WHEN PROPOSED SURFACE IS THE SAME AS EXISTING.
2. WHEN THE ELEVATION DIFFERENCE BETWEEN THE PROPOSED AND EXISTING SURFACES IS GREATER THAN 3-3/4", ADDITIONAL HMA BINDER COURSE OF VARYING THICKNESS SHALL BE PLACED TO MEET THE ELEVATION DIFFERENCE BETWEEN THE PROPOSED AND EXISTING SURFACE.
3. LONGITUDINAL JOINT SEALANT (UNDER SURFACE LIFT)
4. HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL IN ACCORDANCE WITH STANDARD 630201-07



EXISTING IL 17 TYPICAL SECTION

STA 509+78 TO STA 510+02
STA 510+40 TO STA 510+64



PROPOSED IL 17 TYPICAL SECTION


STA 509+78 TO STA 510+02
STA 510+40 TO STA 510+64

MODEL: D:\efk\11 IDOT D3 P7E1194 W011 IL 17 Culvert Replacement\Design\Drawings\1108BR-41BR\1108BR-41BR.dwg

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	DRAWN - SK	REVISED -
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 13
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

EXISTING LEGEND

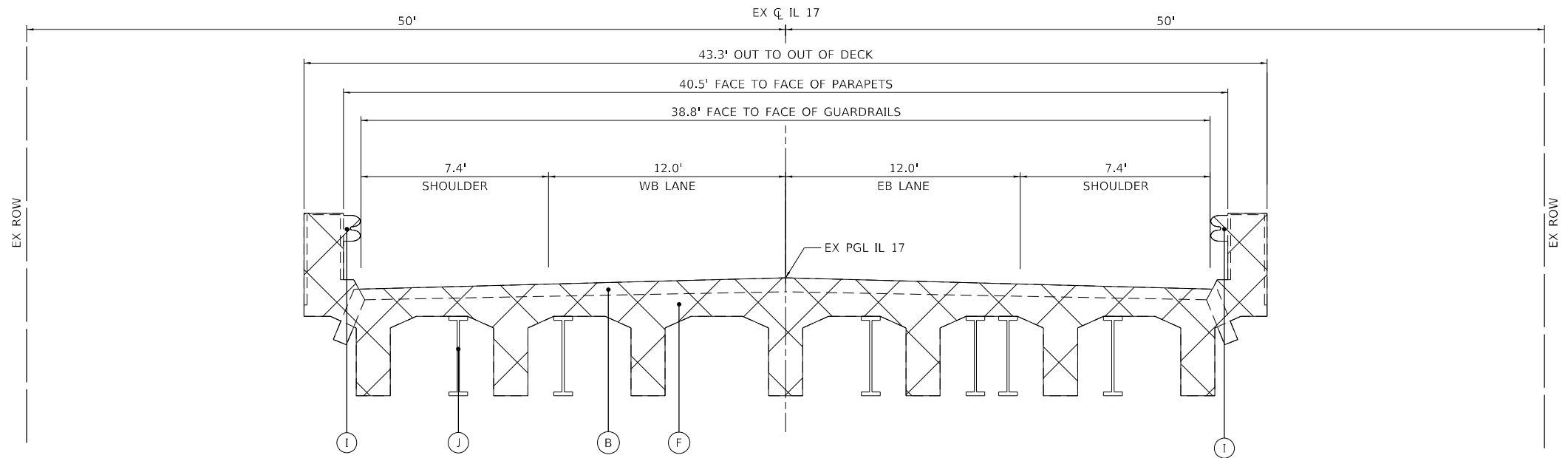
- (A) EX HOT-MIX ASPHALT SURFACE, ± 2-1/2"
- (B) EX HOT-MIX ASPHALT OVERLAY PAVEMENT, ± 1-1/2"
- (C) EX BITUMINOUS OVERLAY PAVEMENT, ± 9"
- (D) EX CONTINUOUSLY REINFORCED CONCRETE PAVEMENT, ± 9"
- (E) EX BITUMINOUS CONCRETE BASE COURSE WIDENING, ± 9"
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-  REMOVAL ITEM

PROPOSED LEGEND

- (1) PR HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (0" TO 3-3/4") (SEE NOTE 1)
- (2) PR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1-1/2"
- (3) PR HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"
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- (5) PR HOT-MIX ASPHALT BASE COURSE, 6-1/2"
- (6) PR HOT-MIX ASPHALT SHOULDERS, 8" (SEE NOTE 4)
- (7) PR SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (8) PR AGGREGATE WEDGE SHOULDER, TYPE B
- (9) PR GUARDRAIL (SEE ROADWAY PLANS)
- (10) PR TOPSOIL & SEEDING (SEE LANDSCAPING PLANS)
- (11) PR POROUS GRANULAR EMBANKMENT (SEE STRUCTURAL PLANS)

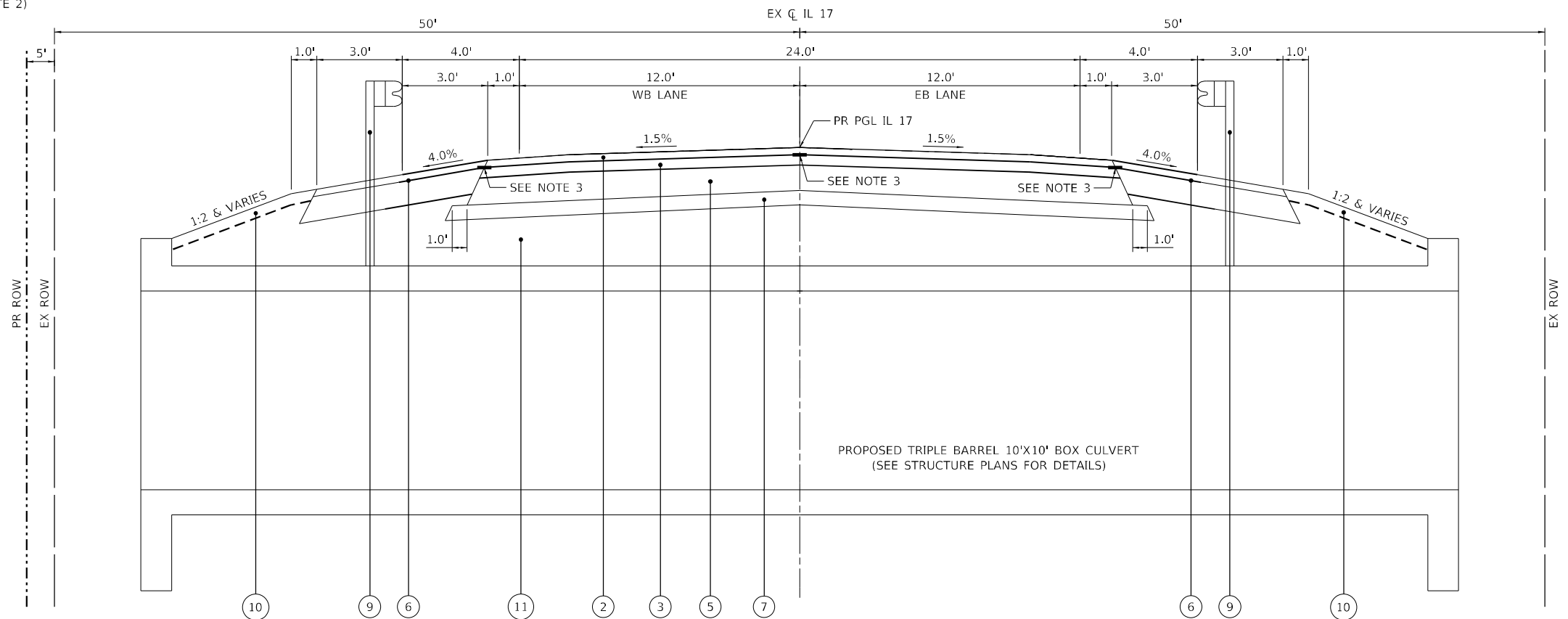
NOTES:

1. HMA SURFACE REMOVAL WILL VARY FROM 0" WHEN PROPOSED SURFACE IS 3-3/4" HIGHER THAN EXISTING SURFACE TO 3-3/4" WHEN PROPOSED SURFACE IS THE SAME AS EXISTING.
2. WHEN THE ELEVATION DIFFERENCE BETWEEN THE PROPOSED AND EXISTING SURFACES IS GREATER THAN 3-3/4", ADDITIONAL HMA BINDER COURSE OF VARYING THICKNESS SHALL BE PLACED TO MEET THE ELEVATION DIFFERENCE BETWEEN THE PROPOSED AND EXISTING SURFACE.
3. LONGITUDINAL JOINT SEALANT (UNDER SURFACE LIFT)
4. HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL IN ACCORDANCE WITH STANDARD 630201-07



EXISTING IL 17 STRUCTURE TYPICAL SECTION

STA 510+02 TO STA 510+40
SEE STRUCTURE PLANS FOR DETAILS



PROPOSED IL 17 STRUCTURE TYPICAL SECTION

STA 510+02 TO STA 510+40

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PLOT SCALE = 100,0000' / in.	CHECKED - RG	REVISED -
PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	14
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	

DRAINAGE REMOVAL SCHEDULE					
STATION	OFFSET	STATION	OFFSET	PIPE CULVERT REMOVAL	REMOVING INLETS
				(FOOT)	(EACH)
508+51.65	29.9' LT	508+89.39	30.9' LT	38	
508+82.43	33.0' RI	509+21.23	33.7' RI	39	
512+05.96	31.0' RT	512+86.81	31.3' RT	31	
512+43.78	30.9' RT				1
TOTAL				158	1

TREE REMOVAL SCHEDULE				
LOCATION	STATION	OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
IL 17	508+18.28	34.8' LT		38
IL 17	510+44.84	33.0' RT	6	
IL 17	510+68.93	33.4' RT		34
TOTAL			6	72

ROADWAY REMOVAL SCHEDULE								
FROM STATION	OFFSET	TO STATION	OFFSET	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	GUARDRAIL REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	APPROACH SLAB REMOVAL
				(SQ YD)	(SQ YD)	(FOOT)	(SQ YD)	(SQ YD)
507+00.00		508+55.00					440	
509+77.64		510+02.00		21.8				54
510+40.00		510+64.35		21.4				54
511+95.00		513+25.00					394	
508+21.12	LT	508+93.21			113			
508+90.94	LT	512+53.84	LT			363		
509+14.16	RT	511+75.98	RT			262		
512+02.13	RT	512+35.16			67			
512+52.79	RT	512+82.23			60			
TOTAL				43	240	626	835	108

EARTH EXCAVATION SCHEDULE										
LOCATION	TOPSOIL EXCAVATION	TOPSOIL EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	TOPSOIL PLACEMENT	TOPSOIL BALANCE SURPLUS (+) OR SHORTAGE (-)	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTH BALANCE SURPLUS (+) OR SHORTAGE (-)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
IL 17 506+00 TO 510+02	320	240	205	+35	210	158	250	-92	35	92
IL 17 510+40 TO 514+66	330	248	215	+33	240	180	385	-205	33	205
TOTAL	650	488	420	+68	450	338	635	-297	68	297

NOTES:

- TOPSOIL SHALL BE EXCAVATED TO A DEPTH OF 6" IN AREAS THAT WILL BE DISTURBED BY PROPOSED WORK.

MODEL: Default
FILE NAME: 20230027.11.DDOT.D3.PFB.194.WO.11.IL.17.Culvert.Replacement.DGM.Design.Prelim.Plan.Sheets.D36699.Sht.sch.quantity.dgm



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	DRAWN - SK	REVISED -
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	15
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

LANDSCAPING SCHEDULE									
LOCATION			AREA	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET
FROM STATION	TO STATION	OFFSET							
506+00.00	508+67.57	LT	4732.66	0.11	10	10	10	526	
508+79.57	509+60.00	LT	2506.01	0.06	5	5	5	278	
509+60.00	510+75.00	LT	2406.54	0.06	5	5	5		267
510+75.00	514+65.90	LT	11738.86	0.27	24	24	24	1304	
506+00.00	507+27.81	RT	2343.59	0.05	5	5	5	260	
507+51.81	509+75.00	RT	5651.13	0.13	12	12	12	628	
509+75.00	511+00.00	RT	2435.14	0.06	5	5	5		271
511+00.00	512+13.99	RT	2652.05	0.06	5	5	5	295	
512+25.99	512+61.12	RT	1144.52	0.03	2	2	2	127	
512+73.12	513+25.00	RT	941.43	0.02	2	2	2	105	
TOTAL			0.84		76	76	76	3523	538

EROSION CONTROL SCHEDULE							
LOCATION	STATION	STATION	OFFSET	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	TEMPORARY DITCH CHECKS	TEMPORARY EROSION CONTROL SEEDING
				FOOT	EACH	FOOT	POUND
IL 17	506+00.04	508+67.57	LT	304	1	10	32.6
IL 17	508+79.57	509+83.58	LT	128		10	23.8
IL 17	510+38.98	514+65.90	LT	448		40	89.7
IL 17	506+00.02	507+27.81	RT	146	1	10	16.1
IL 17	507+51.81	510+02.77	RT	253		10	45.1
IL 17	510+58.46	512+13.99	RT	159			27.6
IL 17	512+25.99	512+61.12	RT	35	1		7.9
IL 17	512+73.12	513+25.00	RT	60	1		6.5
TOTAL				1534	4	80	250

GPS NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
N/A	NO PERMANENT SURVEY MARKERS OR SECTION CORNER MARKERS TO BE SET ON THIS JOB	N/A	N/A	N/A	N/A

THERE ARE NO RECORD LAND SURVEY OR CENTERLINE CONTROL MONUMENTS LOCATED WITHIN THE CONSTRUCTION LIMITS. UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, THE R.E. MUST TIE AND REQUEST PLATS AND PLANS PERSONNEL TO GPS ANY MONUMENT(S) SUBJECT TO DAMAGE OR DESTRUCTION FROM THE BRIDGE REPLACEMENT WORK, AND INFORM THEM TO RESET THE MONUMENT(S) UPON JOB COMPLETION. NO MONUMENT RECORDS WILL BE REQUIRED FOR THIS JOB.

MODEL: Default
FILE NAME: 20230027.11 IDOT D3 PFB194 WO11 IL 17 Culvert ReplacementDGMDesignPrelimPbsheets\0366f92-sht-quantity.dgn



USER NAME = RGall	DESIGNED - SK	REVISED -
	DRAWN - SK	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - RG	REVISED -
PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	16
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	

PROPOSED PAVEMENT MARKING SCHEDULE								
LOCATION	START STATION	END STATION	OFFSET	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	RAISED REFLECTIVE PAVEMENT MARKER
				(2 APPLICATIONS)	(2 APPLICATIONS)			
				SOLID WHITE	10' DASH, 30' SKIP YELLOW			
				(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)
IL 17	507+00	513+25	LT	1250		625		
IL 17	507+00	513+25	RT	1250		625		
IL 17	507+00	513+25	CENTERLINE		313		156	8
TOTAL				2500	313	1250	157	8

PROPOSED PAVEMENT SCHEDULE											
FROM STATION	TO STATION	LT/RT	SUBBASE GRANULAR MATERIAL, TYPE A, 4"	HOT-MIX ASPHALT BASE COURSE, 6-1/2"	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	AGGREGATE WEDGE SHOULDER, TYPE B	HMA SHOULDERS, 8"	LONGITUDINAL JOINT SEALANT	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS
			SQ YD	SQ YD	POUND	TON	TON	TON	TON	TON	FOOT
507+00	509+78					1263.2	211.8	67.7			278
509+78	510+64		286.2	258.7	169.1	32.1	21.1			86	1
510+64	513+25				931.1	212.0	63.6			261	1
506+00	508+40	LT						16.8			
513+11	514+66	LT						10.9			
506+00	507+16	RT						8.1			
511+87	512+07	RT						1.4			
512+33	512+54	RT						1.5			
512+80	513+25	RT						3.1			
508+84	513+23	LT							132.3	439	
507+67	511+87	RT							122.1	420	
TOTAL			287	259	2364	456	153	42	255	1484	2

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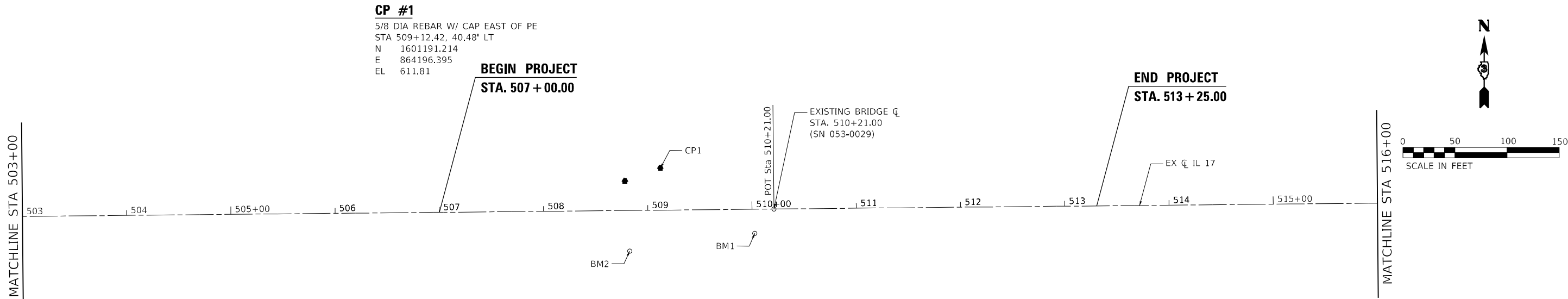
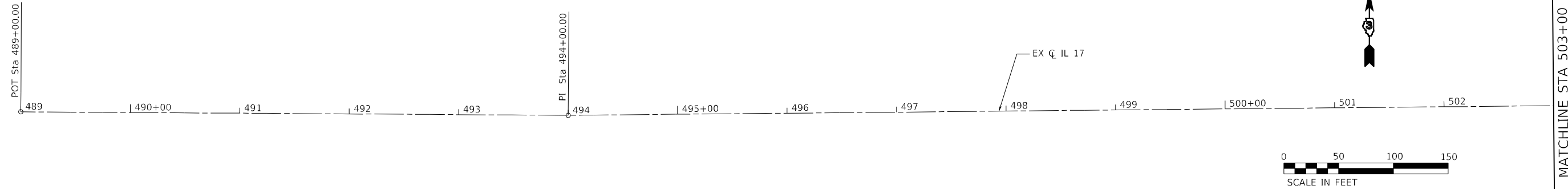
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

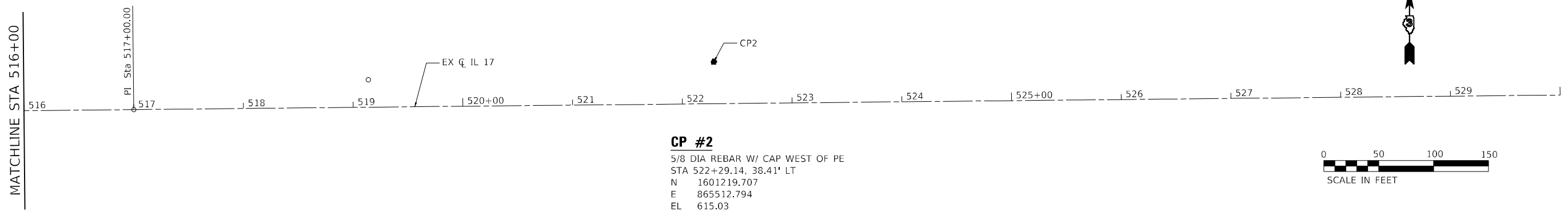
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	17
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				



ALIGNMENT COORDINATES - EX CL IL 17			
POINT	STA	NORTHING	EASTING
POT	489+00.00	1601112.5185	862185.3247
PI	494+00.00	1601115.8967	862685.3133
POT	510+21.00	1601153.2512	864305.8828
PI	517+00.00	1601168.8981	864984.7025
POT	561+35.19	1601272.9528	869418.6717

BENCHMARK #1
 RECTANGULAR CUTOUT ON SW TOP OF WINGWALL
 STA 510+02.48, 23.12' RT
 N 1601129.713
 E 864287.901
 EL 612.03

BENCHMARK #2
 RAILROAD SPIKE IN POWERPOLE
 STA 508+82.23, 38.98' RT
 N 1601111.087
 E 864168.044
 EL 612.16



CP #2
 5/8 DIA REBAR W/ CAP WEST OF PE
 STA 522+29.14, 38.41' LT
 N 1601219.707
 E 865512.794
 EL 615.03

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EFK Moen
 Civil Engineering Design

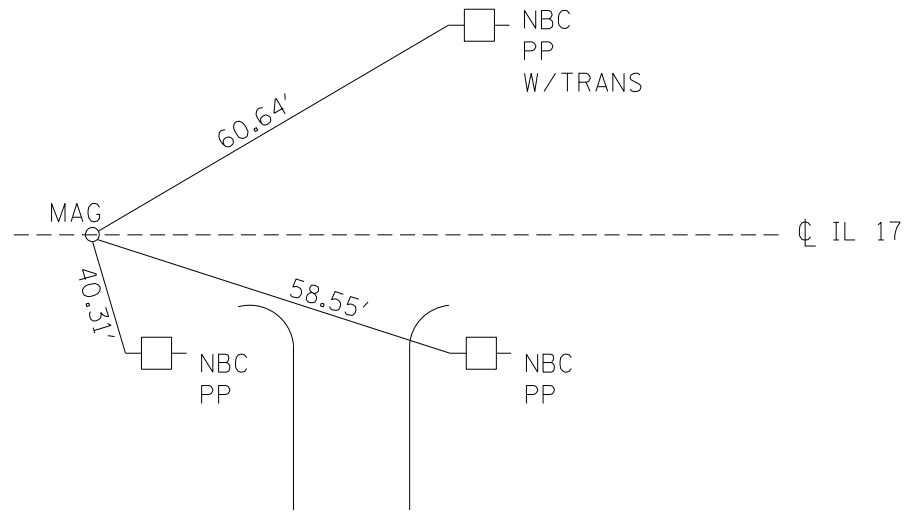
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT			
ALIGNMENT, TIES, AND BENCHMARKS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

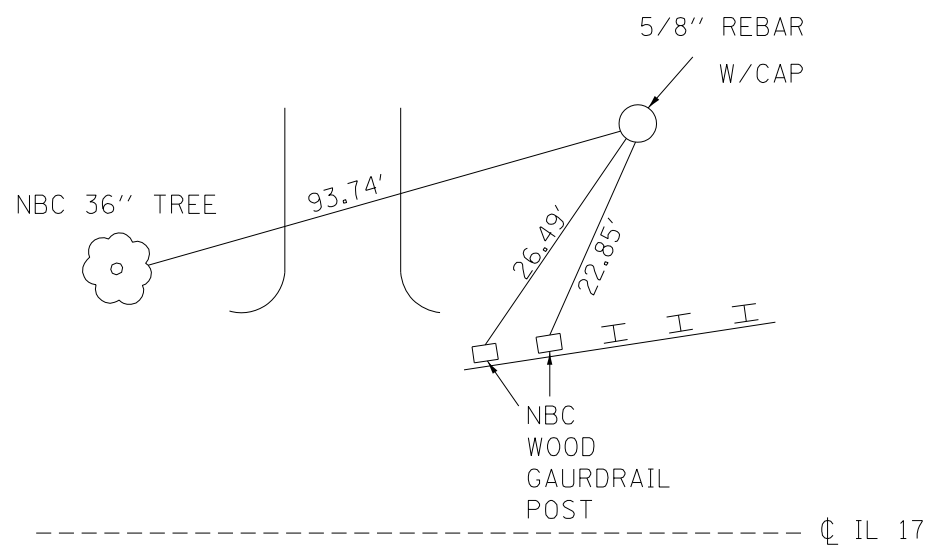
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649	(108BR-4)BR	LIVINGSTON	49	19
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	

PI 494 + 00.00



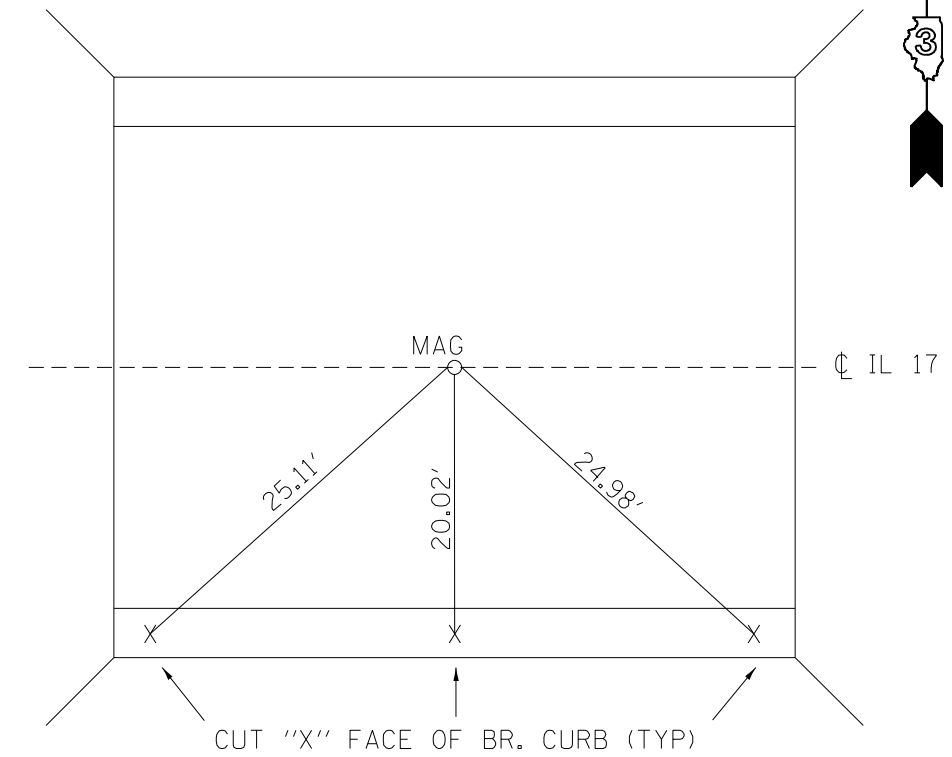
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CP1 509 + 12.42 40.48' LT



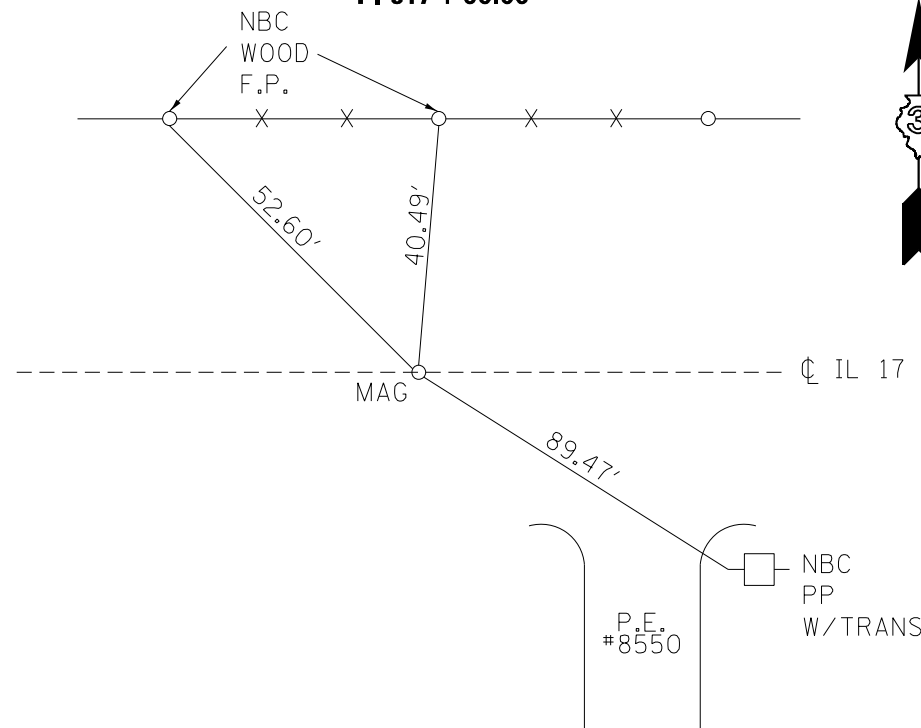
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POT 510 + 21.00
SN 053-0029



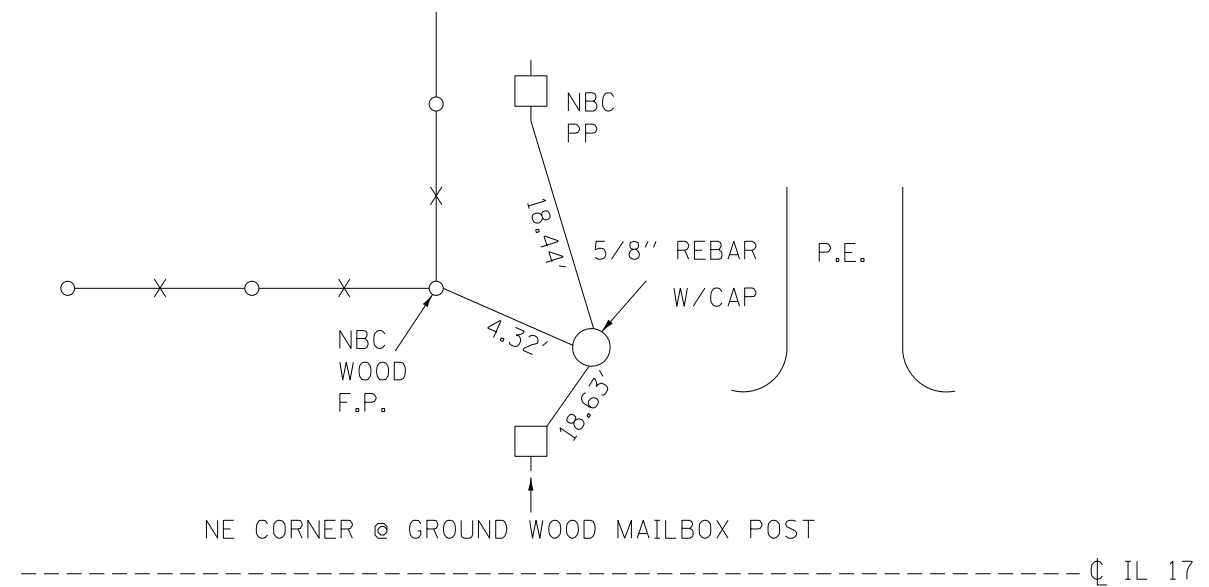
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PI 517 + 00.00



NOT TO SCALE

CP2 522 + 29.14 38.41' LT



NOT TO SCALE

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EFK Moen
Civil Engineering Design

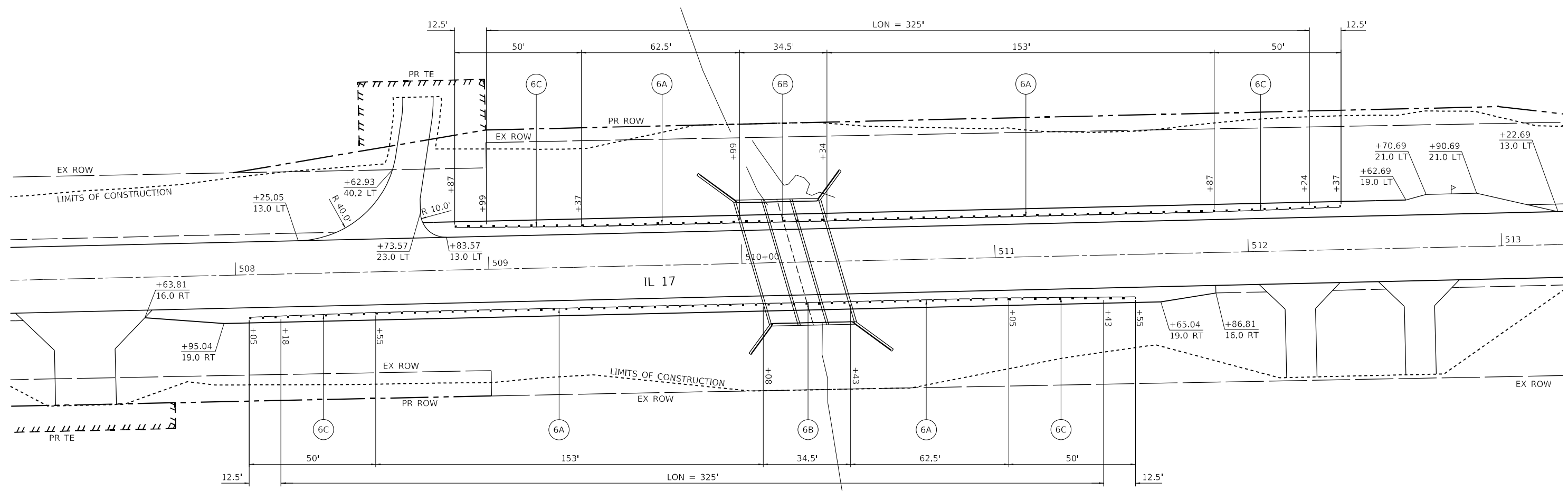
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	20
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	



LEGEND

- 6A STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)
- 6B STRONG POST GUARDRAIL ATTACHED TO CULVERT (63000030)
- 6C TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167)

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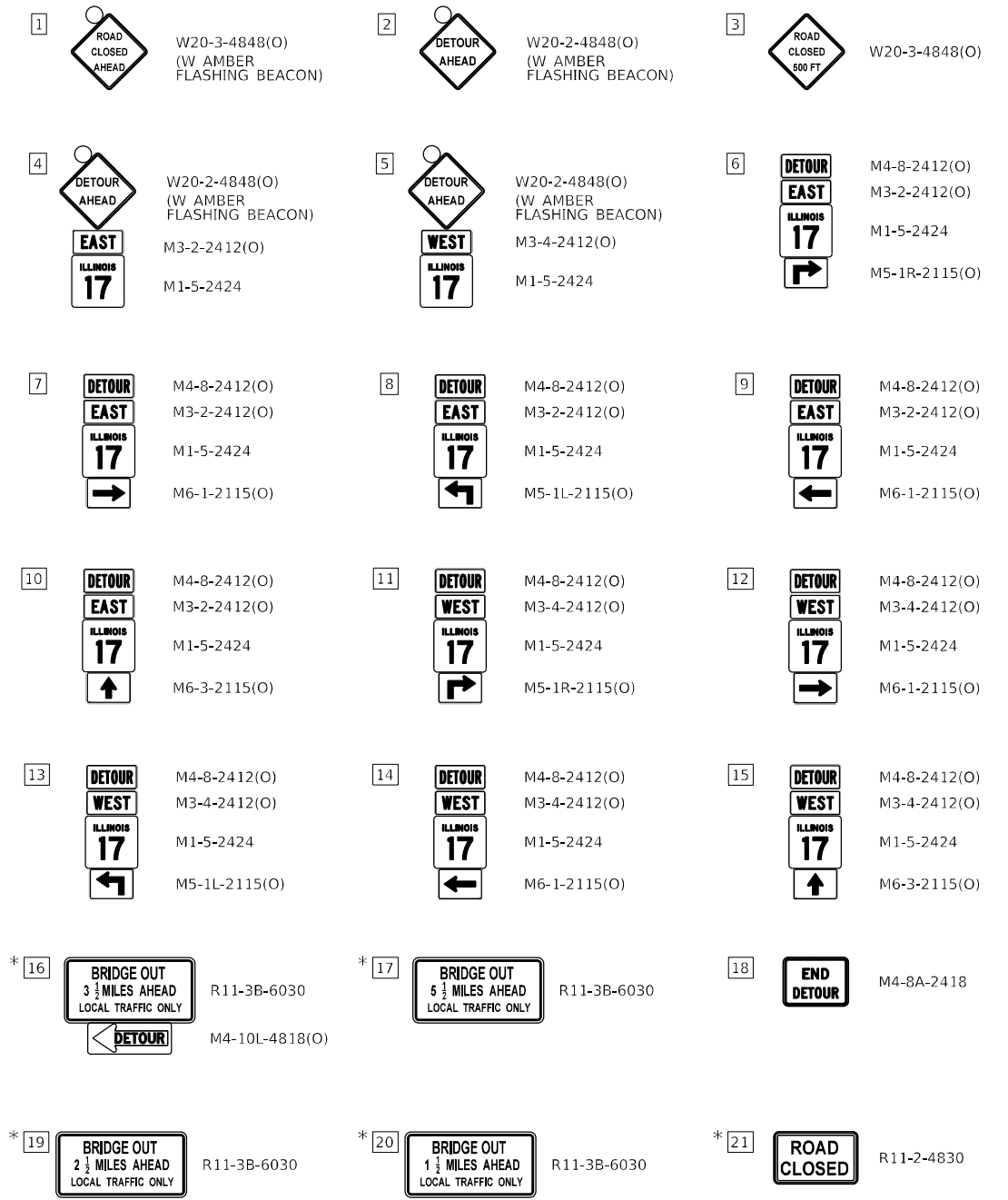
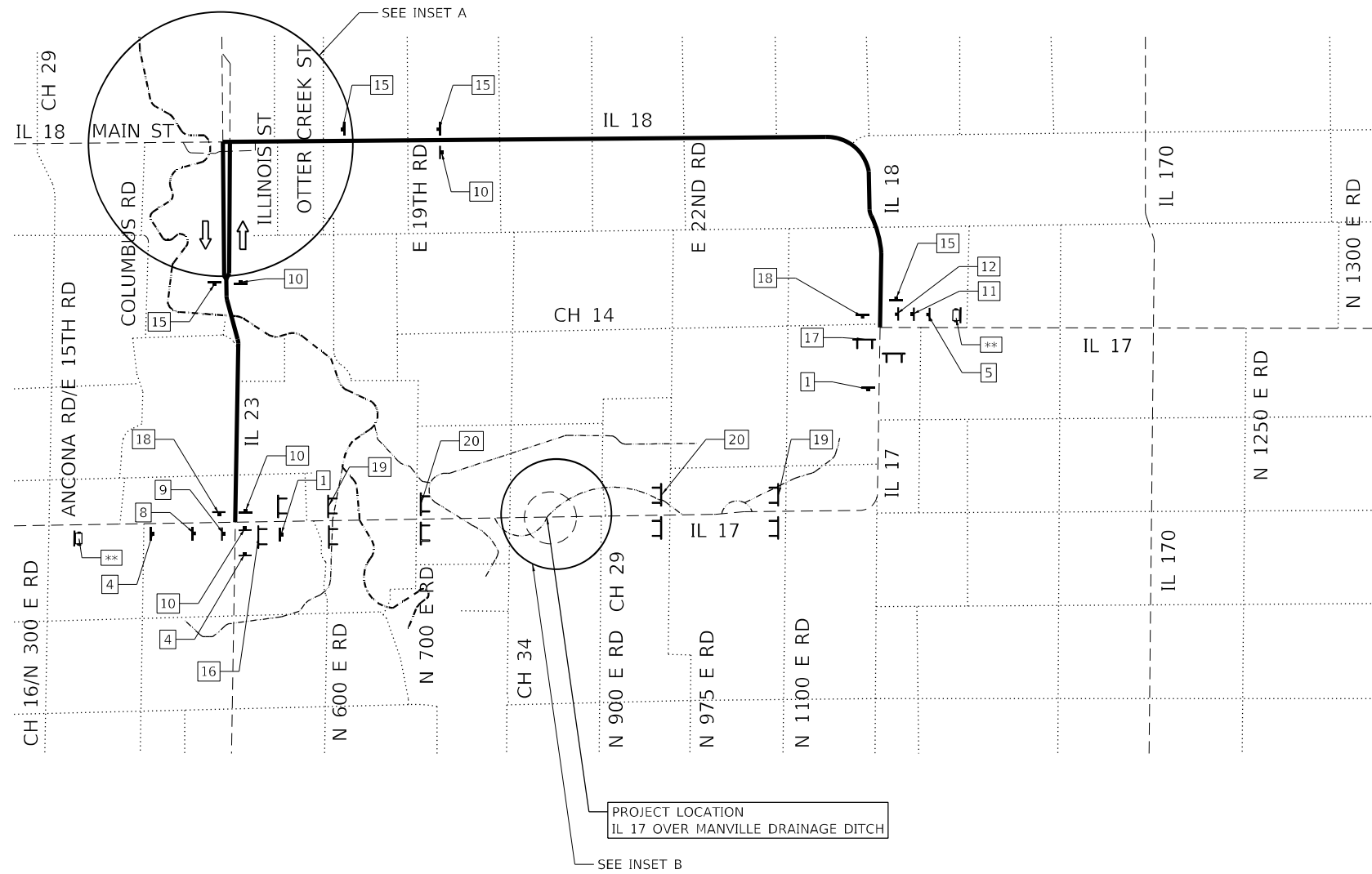


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 BRIDGE REPLACEMENT			
PROPOSED PLAN - GUARDRAIL DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	23
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				



LEGEND

- DIRECTION OF TRAFFIC
- EXISTING TRAFFIC SIGNAL
- TYPE III BARRICADE
- PORTABLE CHANGEABLE MESSAGE SIGN
- PROPOSED PASSENGER VEHICLE DETOUR ROUTE
DETOURED VIA E IL 18 (N 13TH RD) -
IL 23 (PARK ST) -
12.97 MILES
- INTERSTATE, US, OR STATE HIGHWAY
- OTHER MAJOR ROUTE
- WATERWAY

NOTES

1. ITEMS AS SHOWN ON STANDARD BLR 21- TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 21.
2. SIGNS DESIGNATED AS (O) SHALL HAVE FLUORESCENT ORANGE SHEETING MATERIAL.
3. COVER EXISTING CONFLICTING SIGNS. DO NOT PLACE TAPE OR DRILL INTO THE FACE OF THE SIGN WHEN COVERING.
4. TYPE III BARRICADES SHALL BE PLACED IN ADVANCE OF THE LIMITS OF CONSTRUCTION.
5. PORTABLE CHANGEABLE MESSAGE SIGN IS TO BE PLACED TWO WEEKS BEFORE PROJECT START GIVING THE DATE ROAD WILL BE CLOSED TO TRAFFIC.
6. PORTABLE CHANGEABLE MESSAGE SIGN IS TO REMAIN IN USE FOR DURATION OF THE ROAD CLOSURE.

* MOUNTING OF SIGN ON TYPE III BARRICADE SHALL BE NCHRP 350 COMPLIANT.

CHANGEABLE MESSAGE SIGN (TWO WEEKS PRIOR TO START)

** MSG 1: IL 17 CLOSED XX/XX ** MSG 1: IL 17 CLOSED XX/XX

CHANGEABLE MESSAGE SIGN FOR PROJECT DURATION

** MSG 1: RD CLSD 6.5 MILE AHEAD ** MSG 1: RD CLSD 6.5 MILE AHEAD

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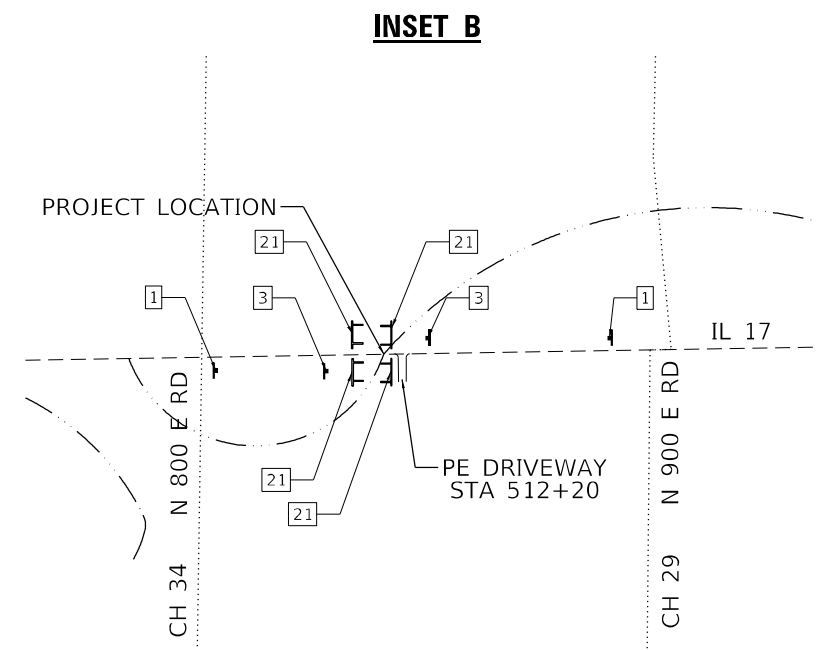
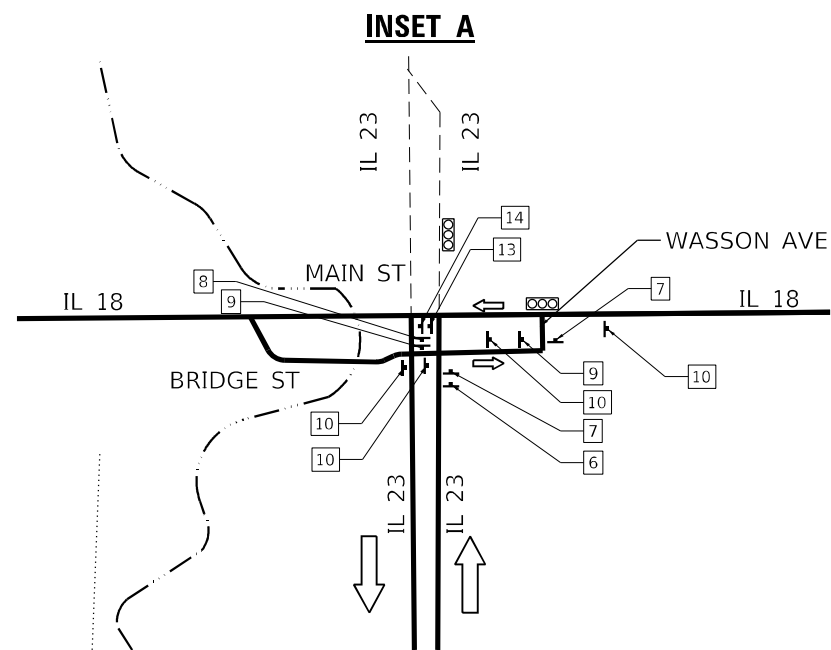
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
DETOUR PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	24
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	



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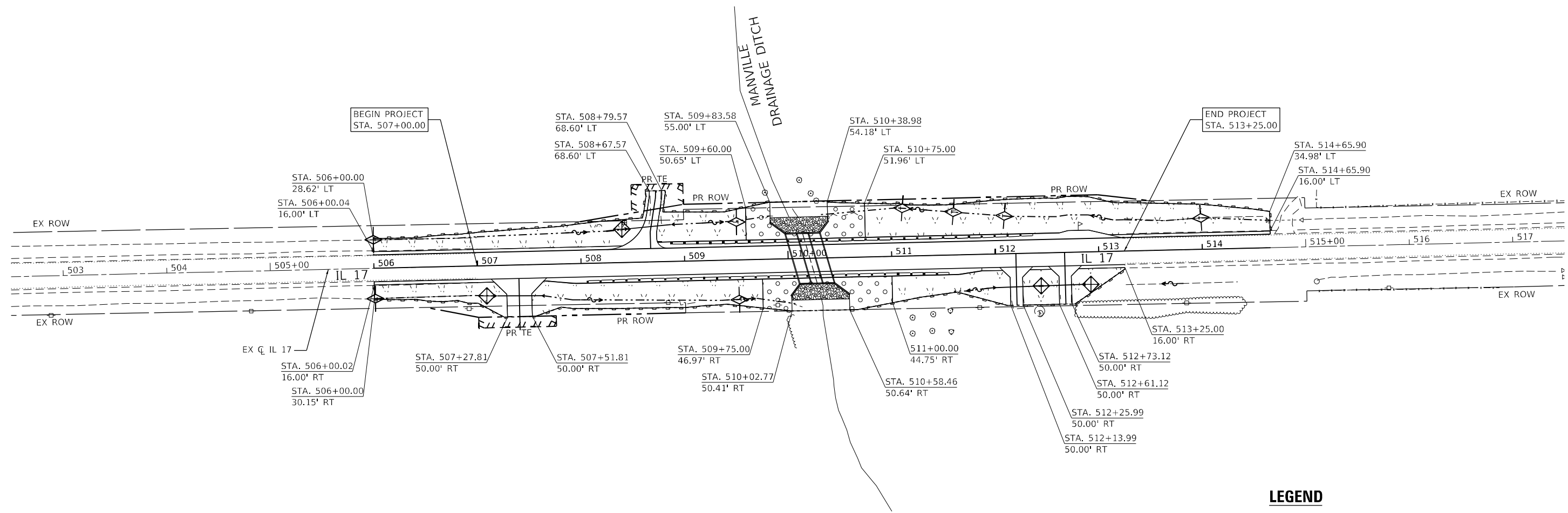
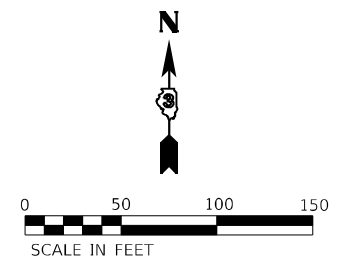
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


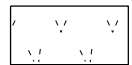




**IL 17 BRIDGE REPLACEMENT
DETOUR PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	25
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMPORARY DITCH CHECKS (28000305)
-  TOPSOIL EXCAVATION AND PLACEMENT (21101505)
SEEDING, CLASS 2A (25000210)
EROSION CONTROL BLANKET (25100630)
-  TOPSOIL EXCAVATION AND PLACEMENT (21101505)
SEEDING, CLASS 2A (25000210)
HEAVY DUTY EROSION CONTROL BLANKET (25100635)
-  PERIMETER EROSION BARRIER (28000400)
-  INLET AND PIPE PROTECTION (28000500)
-  STONE RIPRAP, CLASS A4 (28100107)
FILTER FABRIC (28200200)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

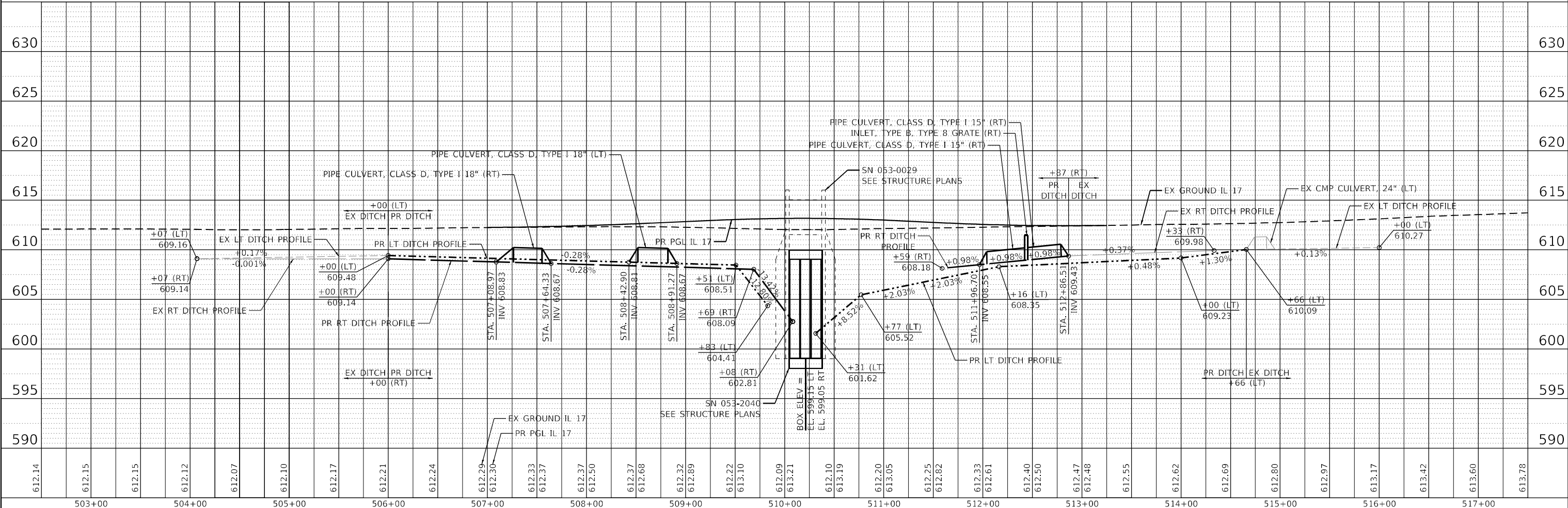
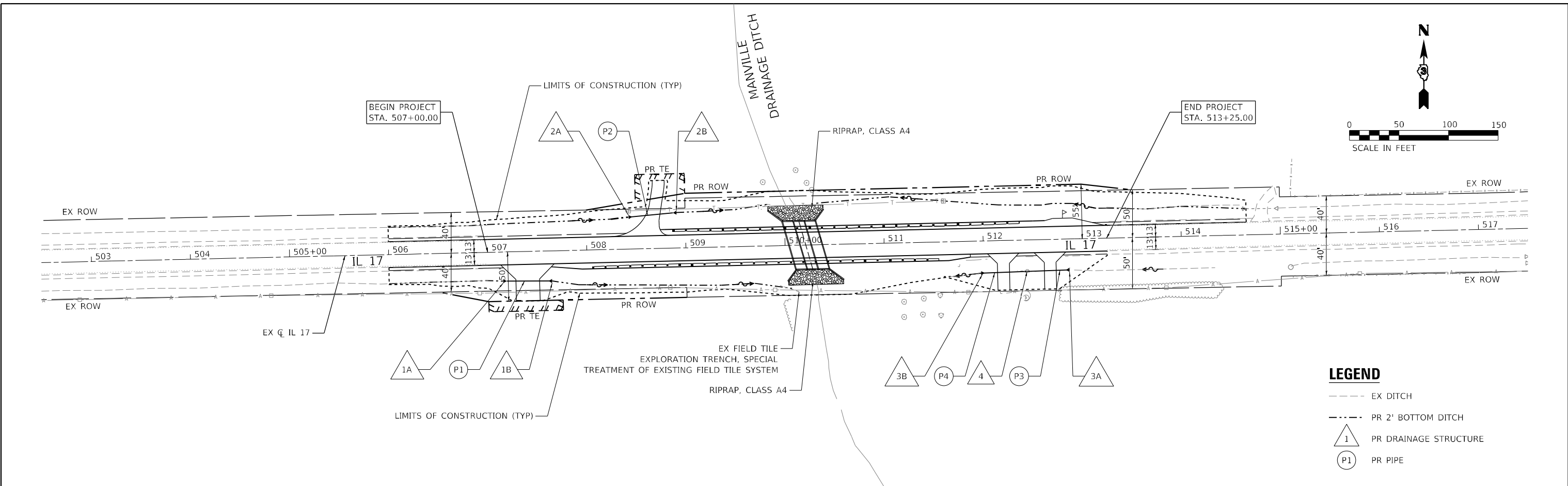
IL 17 BRIDGE REPLACEMENT EROSION CONTROL AND LANDSCAPING PLAN				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F92	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	DATE	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	DATE	
	BY	
	NO.	

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EFK Moen
Civil Engineering Design

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PLOT DATE =	5/25/2022	DATE -	5/25/2022	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
DRAINAGE & UTILITY PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

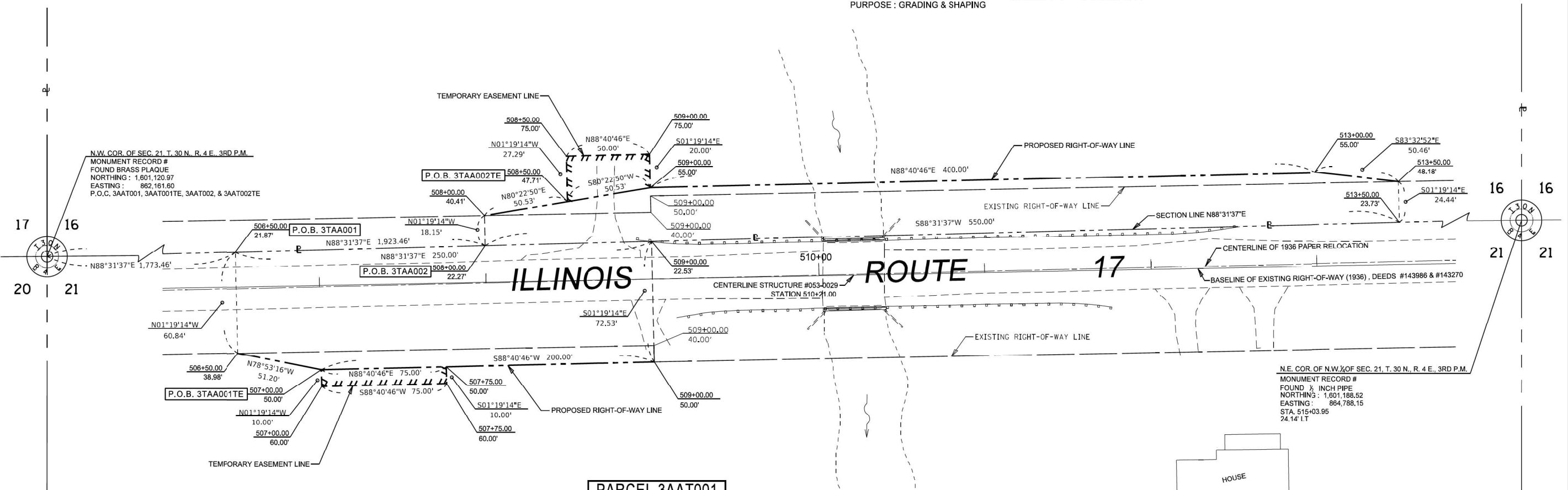
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	28
CONTRACT NO. 66F92			ILLINOIS FED. AID PROJECT	

SOUTHWEST 1/4 OF SEC. 16,
T. 30 N., R. 4 E., 3RD P.M.



PARCEL 3AAT002

TOTAL HOLDING = 160.070 AC. +/- (6,972,649 SQ.FT. +/-)
 TOTAL R.O.W. REQUIRED = 0.383 AC. +/- (16,698 SQ.FT. +/-)
 AREA IN EXISTING R.O.W. = 0.309 AC. (13,462 SQ.FT.)
 NET R.O.W. REQUIRED = 0.074 AC. +/- (3,236 SQ.FT. +/-)
 REMAINDER = 159.687 AC. +/- (6,955,951 SQ.FT. +/-)
 TEMPORARY EASEMENT = 0.027 AC. +/- (1,182 SQ.FT. +/-)
 PURPOSE : GRADING & SHAPING



PARCEL 3AAT001

TOTAL HOLDING = 34.290 AC. +/- (1,493,672 SQ.FT. +/-)
 TOTAL R.O.W. REQUIRED = 0.408 AC. +/- (17,774 SQ.FT. +/-)
 AREA IN EXISTING R.O.W. = 0.354 AC. (15,422 SQ.FT.)
 NET R.O.W. REQUIRED = 0.054 AC. +/- (2,352 SQ.FT. +/-)
 REMAINDER = 33.882 AC. +/- (1,475,898 SQ.FT. +/-)
 TEMPORARY EASEMENT = 0.017 AC. +/- (750 SQ.FT. +/-)
 PURPOSE : RELOCATION OF FIELD ENTRANCE

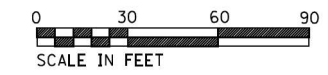
SURVEYOR'S STATEMENT

I, JEFFERY J. CIMEI, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF F.A.P. 649 (ILLINOIS 17) WAS MADE BY ME OR UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



BY Jeffery J. Cimei DATED 5-17-2022
 JEFFERY J. CIMEI, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3733 (EXPIRES NOV. 2022)

NORTHWEST 1/4 OF SEC. 21,
T. 30 N., R. 4 E., 3RD P.M.



NOTE: GRID BEARINGS AND DISTANCES SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, (GRID) EAST ZONE, (NAD-83, 2011 ADJ.).
 ALL AREAS ARE BASED ON GROUND MEASUREMENTS
 COMBINED FACTOR = 0.98996730
 TOTAL HOLDING AREA TAKEN FROM TAX ASSESSOR (NOT SURVEYED)

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	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAT OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)ES	LIVINGSTON		
ILLINOIS 17			CONTRACT NO. 66F92	
R-93-001-22			ILLINOIS FED. AID PROJECT	



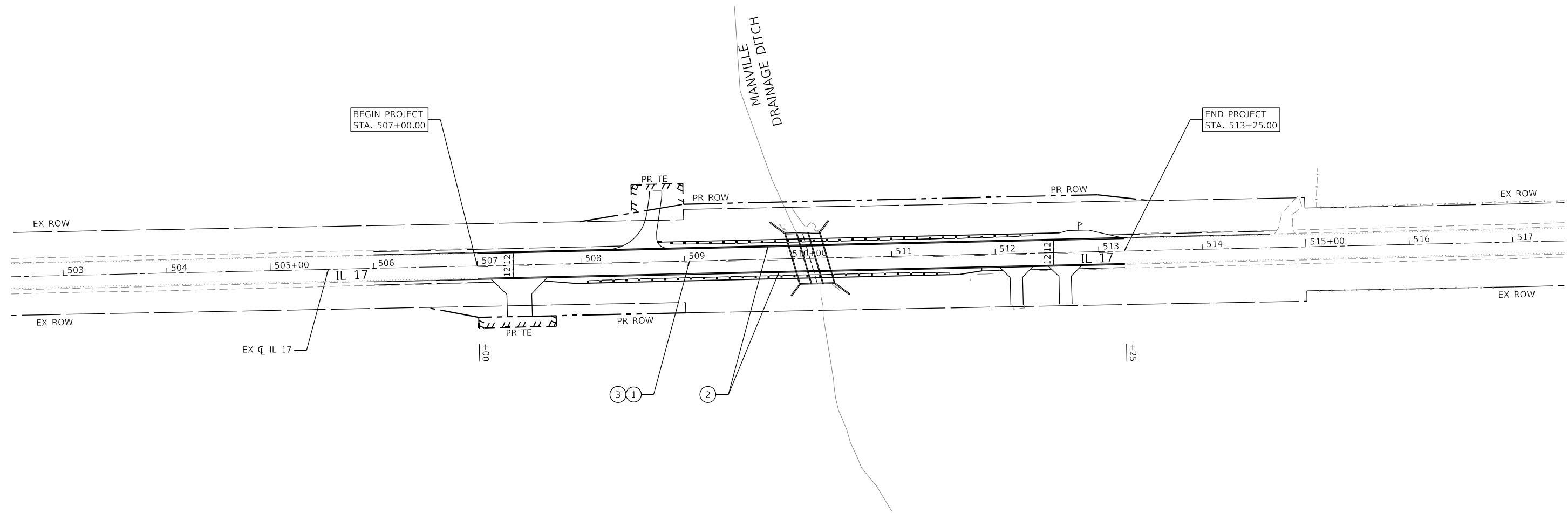
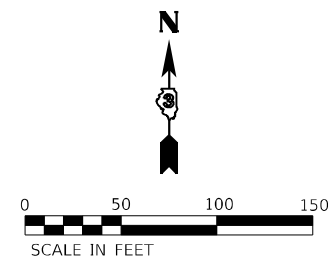
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	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
PLAT OF HIGHWAYS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	29
			CONTRACT NO. 66F92	
			ILLINOIS FED. AID PROJECT	

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LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (10' - DASH, 30' SKIP, YELLOW) - GROOVED
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE) - GROOVED
- ③ RAISED REFLECTIVE PAVEMENT MARKER (80' C-C SPACING, TYP. AMBER)

NOTES

1. TWO SEPARATE APPLICATIONS OF MODIFIED URETHANE PAVEMENT MARKING WILL BE REQUIRED. THE SECOND APPLICATION SHALL BE PLACED A MINIMUM OF 14 DAYS AFTER THE FIRST APPLICATION. THE CONTRACTOR SHALL NOT PLACE ONE THICK APPLICATION IN LIEU OF TWO REGULAR APPLICATIONS. THIS REQUIREMENT SHALL BE INCLUDED IN THE COST OF MODIFIED URETHANE PAVEMENT MARKING OF THE WIDTH SPECIFIED.

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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
PAVEMENT MARKING PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

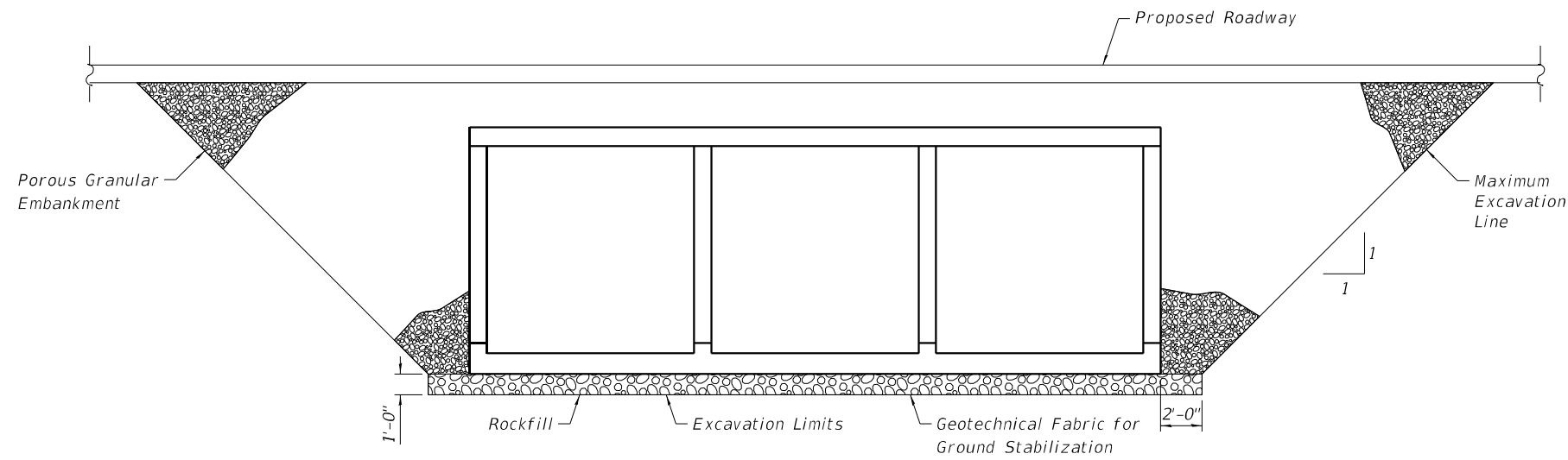
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649	(108BR-4)BR	LIVINGSTON	49	30
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

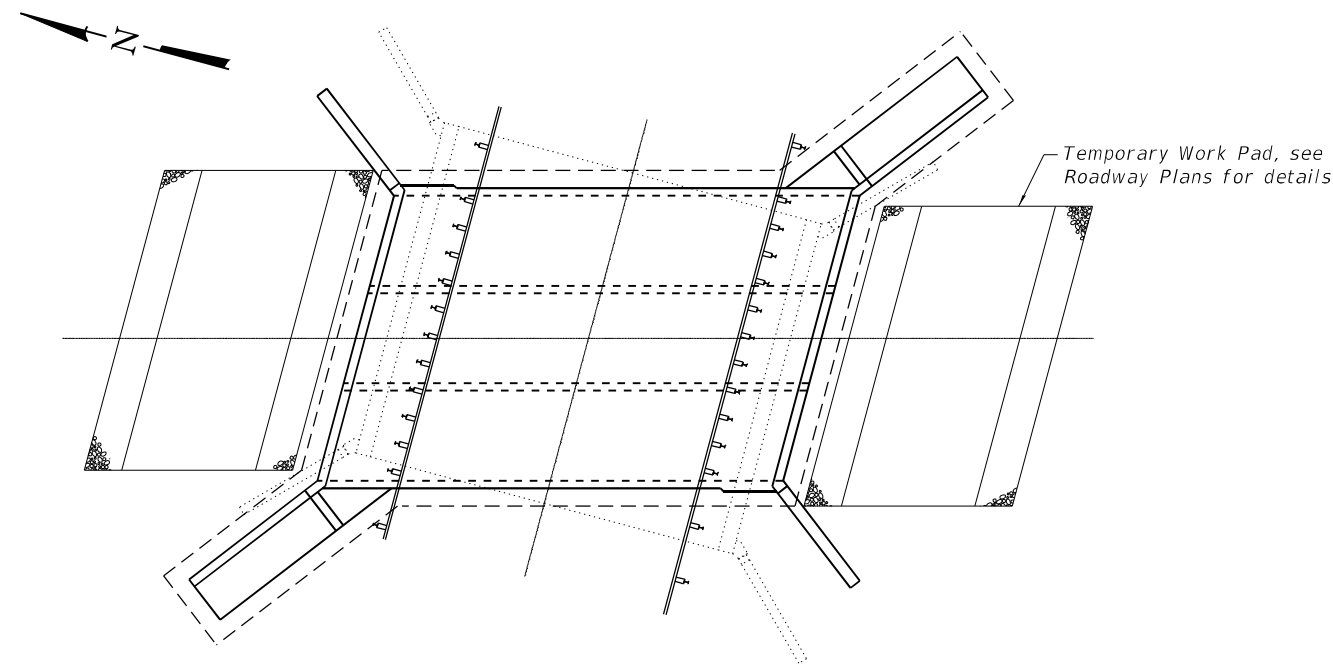
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	552
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	275
Stone Riprap, Class A4	Sq. Yd.	170
Filter Fabric	Sq. Yd.	170
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	92
Reinforcement Bars	Pound	48,120
Reinforcement Bars, Epoxy Coated	Pound	1,980
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	238.9
Geocomposite Wall Drain	Sq. Yd.	205
Strong Post Guardrail Attached to Culvert	Foot	69
Membrane Waterproofing System for Buried Structures	Sq. Yd.	205
Rock Fill	Cu. Yd.	92

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Reinforcement bars designated (E) shall be epoxy coated.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
 Precast alternate is not allowed.



SECTION THRU BARREL



TEMPORARY WORK PAD

STATION 510+21.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE 649 - SEC. (108BR-4)BR
 LOADING HL-93
 STRUCTURE NO. 053-2040

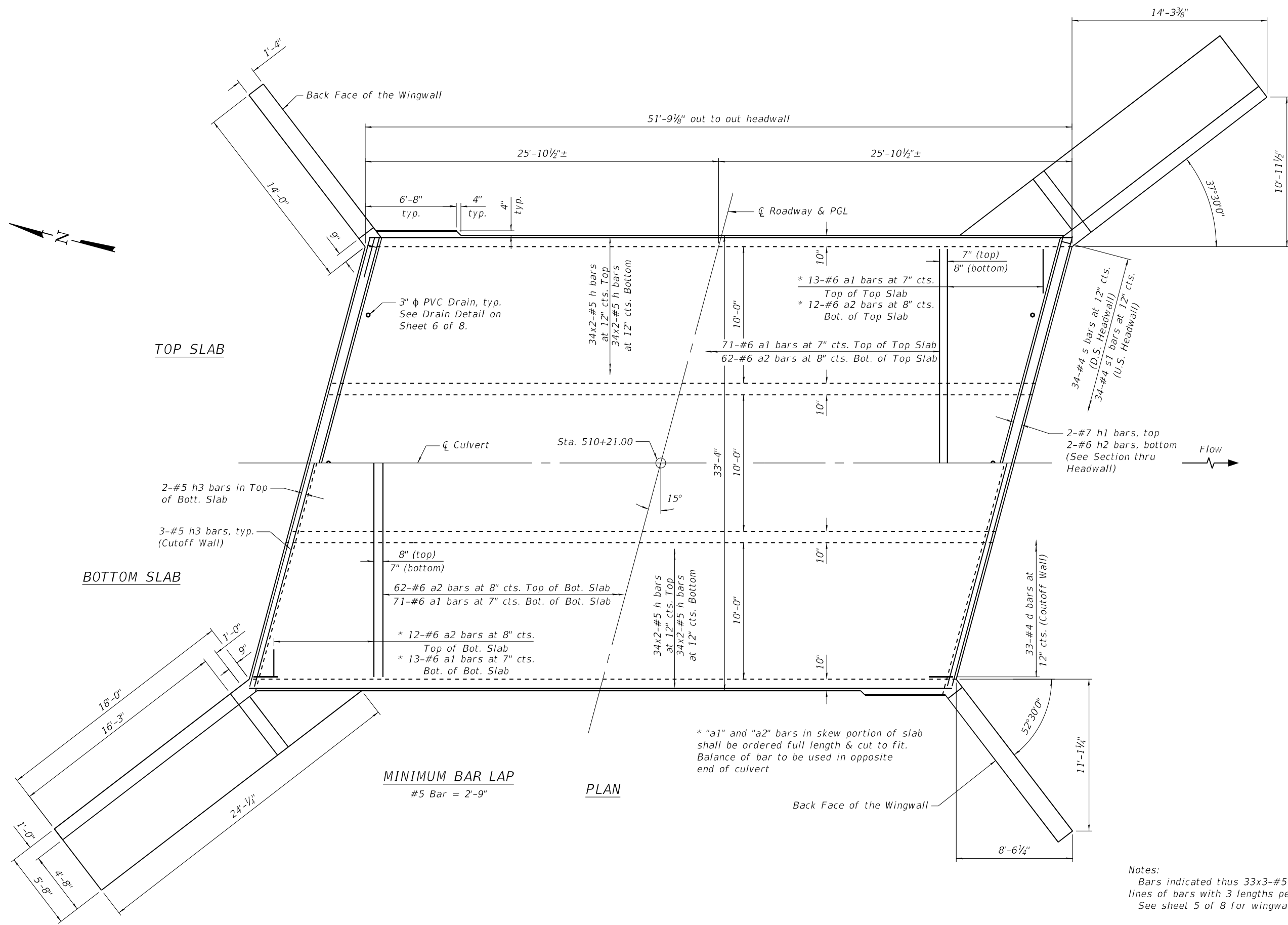
NAME PLATE
 See Std. 515001

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	CHECKED - ACB	REVISED -
PLOT SCALE =	DRAWN - JV	REVISED -
PLOT DATE = 5/12/2022	CHECKED - ACB	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	32
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

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MINIMUM BAR LAP
 #5 Bar = 2'-9"

PLAN

* "a1" and "a2" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert

Notes:
 Bars indicated thus 33x3-#5 etc. indicates 33 lines of bars with 3 lengths per line.
 See sheet 5 of 8 for wingwall details.

EFK Moen
 Civil Engineering Design

USER NAME = acb	DESIGNED - JV	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 5/12/2022	DRAWN - JV	REVISED -
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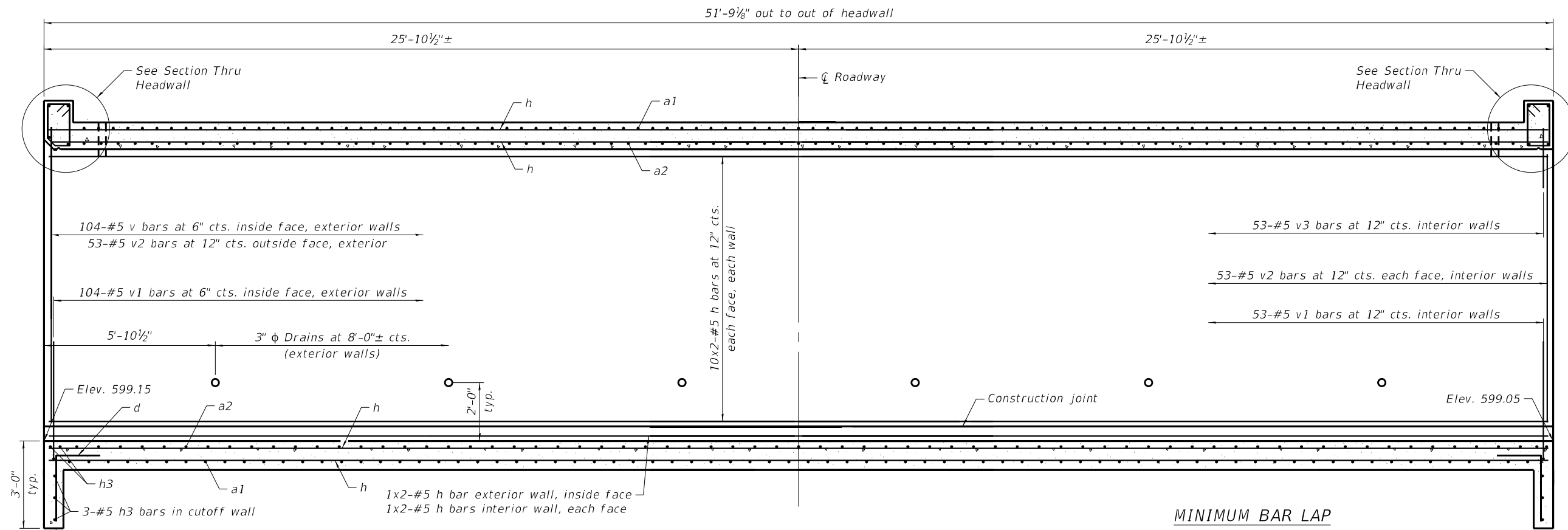
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT TOP & BOTTOM SLAB
STRUCTURE NO. 053-2040

SHEET 3 OF 8 SHEETS

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 33
CONTRACT NO. 66F92				

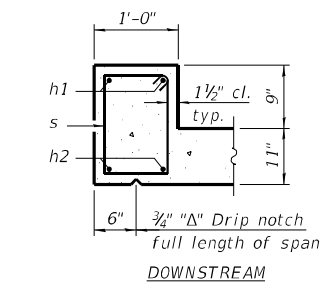
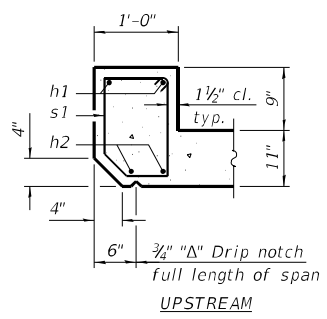
ILLINOIS FED. AID PROJECT



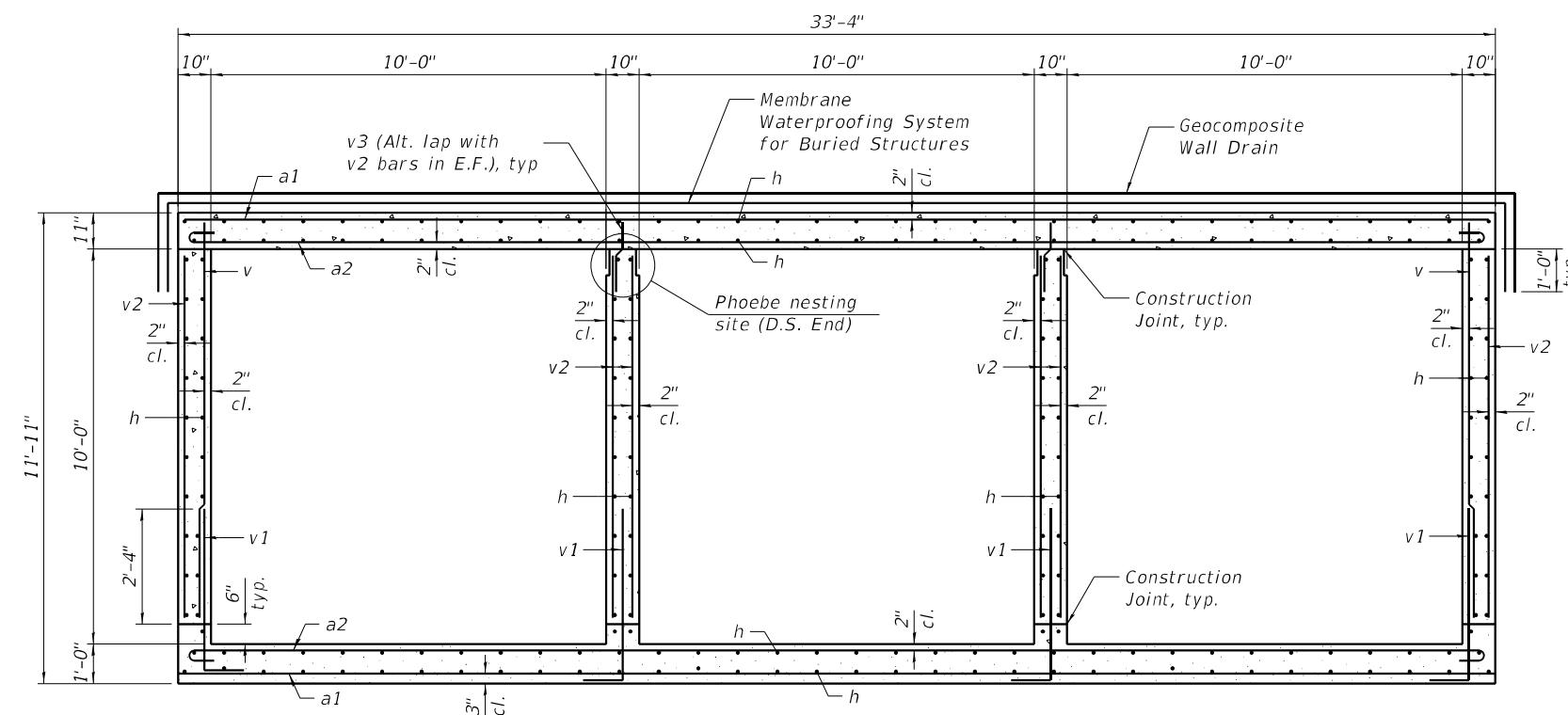
LONGITUDINAL SECTION

MINIMUM BAR LAP
#5 Bar = 2'-9"

* Dimensions at right angles to \bar{C} roadway
3'-0" typ.
3" *
cl.
8" *
typ.

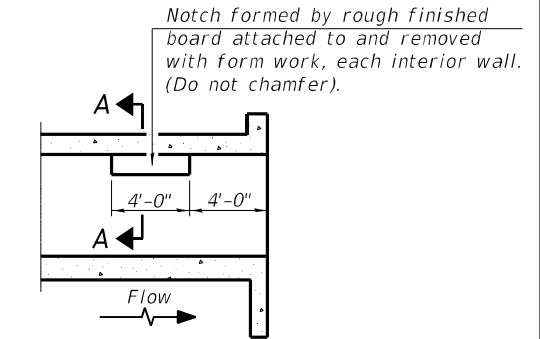


SECTION THRU HEADWALL

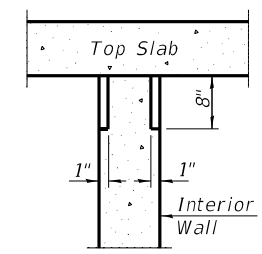


SECTION THRU BARREL

(Horizontal dimensions are at right angles to \bar{C} Culvert)



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

Notes:
At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.
Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

MODEL: Default
FILE NAME: \\SERVER18\Projects\554\20027.11 IDOT D3 PTB 194.WO11 IL 17 Culvert Replacement\DGN\Bridges\Final\Plotsheets\0532040-66F92-004-Culvert_Sections.dgn

EFK Moen
Civil Engineering Design

USER NAME = acb	DESIGNED - JV	REVISED -
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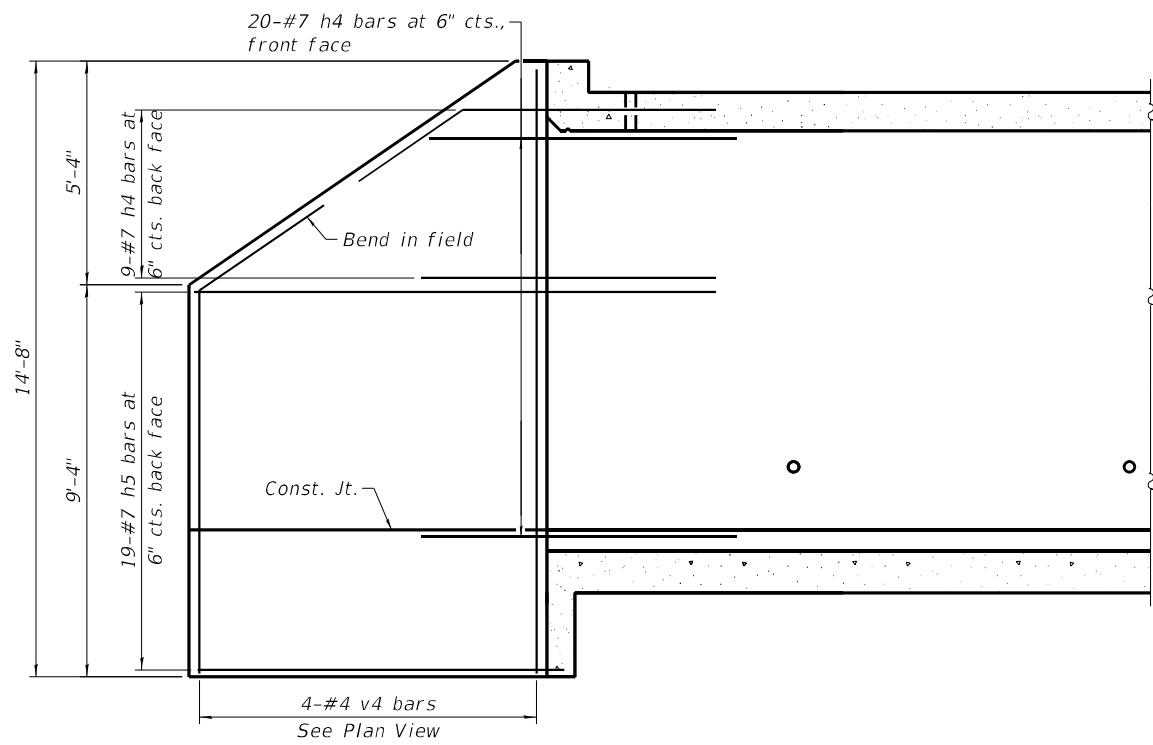
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS
STRUCTURE NO. 053-2040

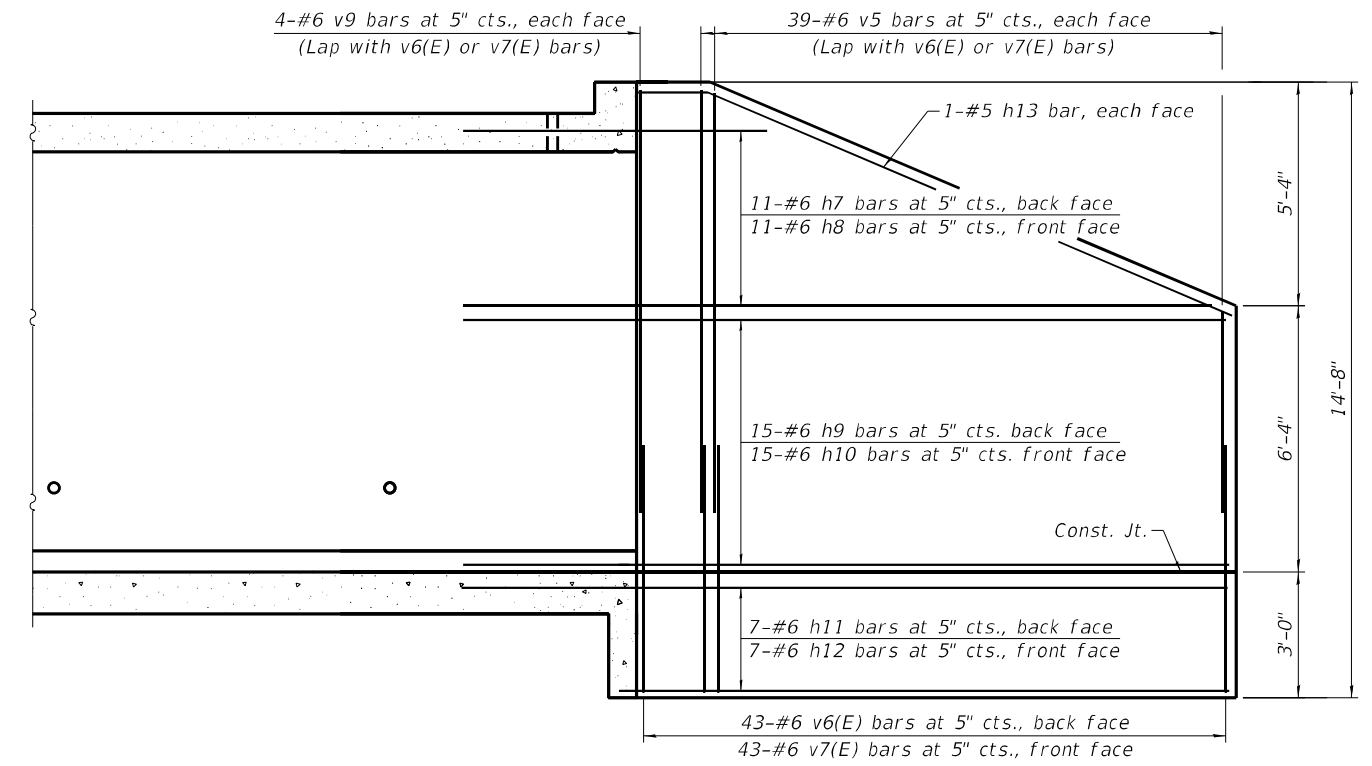
SHEET 4 OF 8 SHEETS

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 34
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

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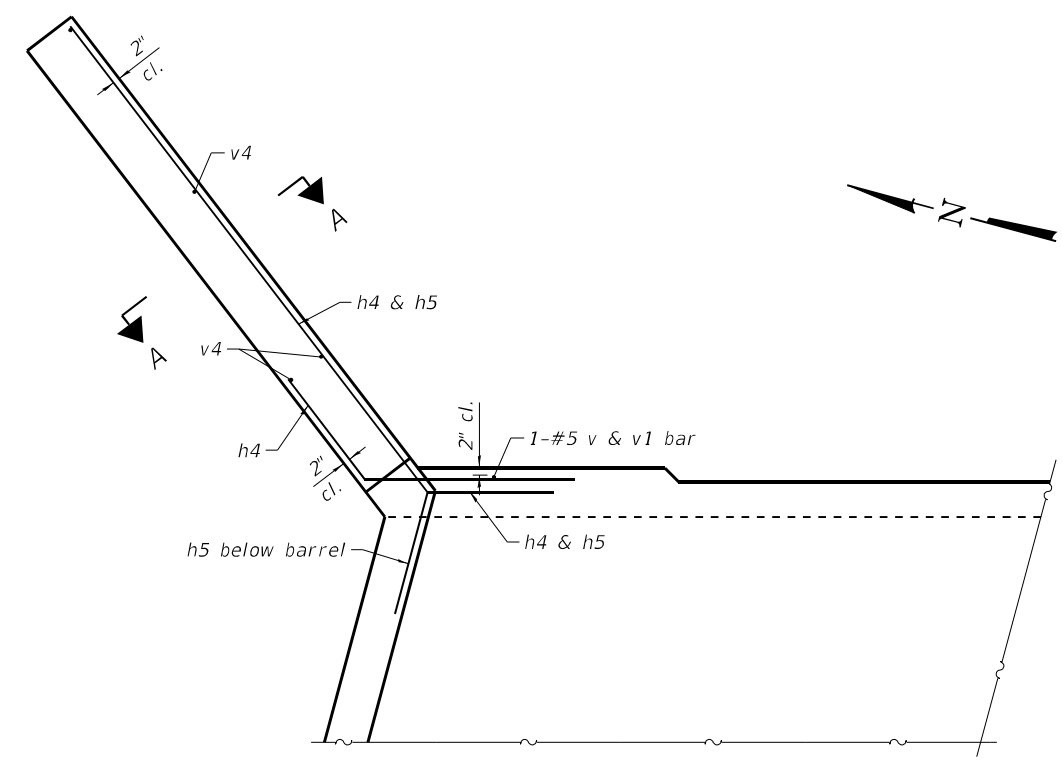


HORIZONTAL CANTILEVERED WINGWALL



L-TYPE TWO-WAY CANTILEVERED WINGWALL

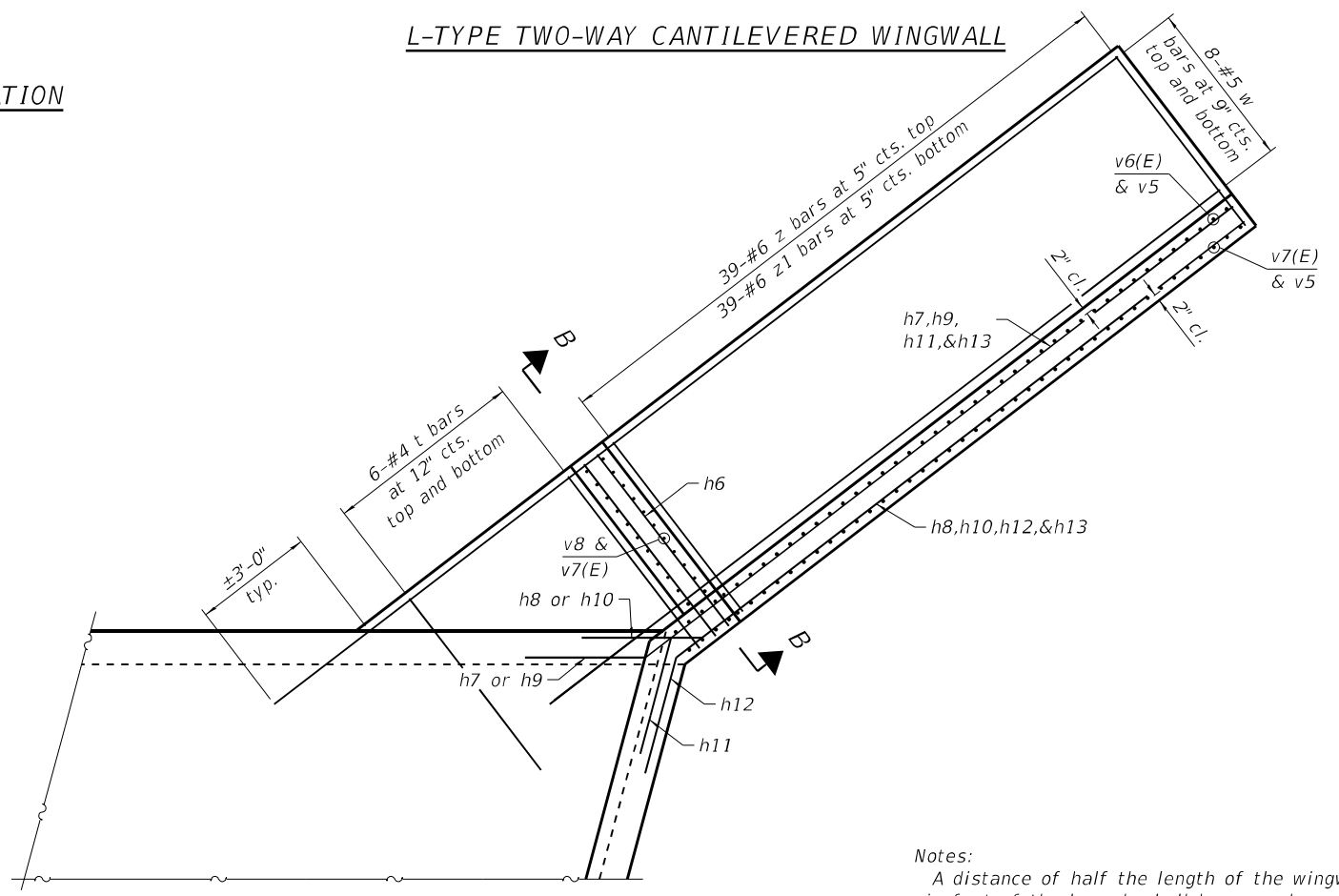
ELEVATION



HORIZONTAL CANTILEVERED WINGWALL

(Northeast wingwall shown, Southwest wingwall similar by 180° rotation)

PLAN



L-TYPE TWO-WAY CANTILEVERED WINGWALL

(Southeast wingwall shown, Northwest wingwall similar by 180° rotation)

Notes:
 A distance of half the length of the wingwall, but not less than six feet of the barrel, shall be poured monolithically with the horizontal cantilevered wingwalls.
 See sheet 6 of 8 for Section A-A and B-B.

USER NAME = acb	DESIGNED - JV	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 5/12/2022	DRAWN - JV	REVISED -
	CHECKED - ACB	REVISED -

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 35
CONTRACT NO. 66F92				



SOIL BORING LOG

Date 10/9/18

ROUTE SBI-118 (IL 17) DESCRIPTION IL 17 over a Drainage Ditch, 3.4 miles East of IL 17 & IL 23 LOGGED BY Larry Myers

SECTION 108-B-1 LOCATION NW 1/4, SEC. 21, TWP. 30N, RNG. 4E, 3rd PM, Latitude 41.062094, Longitude -88.768407

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-0029 Station 510+21

BORING NO. 02 (S.W. Quad.) Station 509+88 Offset 13.0 ft Rt. Ground Surface Elev. 611.96 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
				Surface Water Elev. 600.89 ft				
				Stream Bed Elev. 600.49 ft				
				Groundwater Elev.: First Encounter 597.0 ft				
				Upon Completion 597.0 ft				
				After Hrs.				
				Augered Shoulder Stone, Black Silty Clay Loam Fill	6			
					12			12
609.46				Medium Black & Brown Silty Clay / Silty Clay Loam	12			
	3				14			10
	2	1.0	23	Washed Sample 22.5' to 24.0'	16			
	3	P						
				WH = Weight of Hammer				
					-25			
	WH			Washed Sample 25.0' to 26.5'	12			
	WH	0.5	26		16			10
	2	P			16			
604.96				Very Stiff Brown & Gray Silty Clay Loam Till				
	2				10			
	3	2.0	23		15			10
	4	P			16			
					-30			
	5			Washed Sample 32.5' to 34.0'	11			
	7	4.0	14		16			15
	8	P			12			
599.96				Stiff to Very Stiff Gray Silt with some Silty Clay Layers				
	4				12			
	4	2.0	21	Washed Sample 35.0' to 36.5'	16			18
	4	P			17			
					-35			
	2			Washed Sample 37.5' to 39.0'	10			
	4	2.3	22		15			14
	6	P			14			
594.96				Loose Gray Fine to Medium Sand with Layers of Gray Silty Clay Loam				
	WH				10			
	2		15		14			13
	7				15			
592.46				WH = Weight of Hammer				
					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/9/18

ROUTE SBI-118 (IL 17) DESCRIPTION IL 17 over a Drainage Ditch, 3.4 miles East of IL 17 & IL 23 LOGGED BY Larry Myers

SECTION 108-B-1 LOCATION NW 1/4, SEC. 21, TWP. 30N, RNG. 4E, 3rd PM, Latitude 41.062094, Longitude -88.768407

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-0029 Station 510+21

BORING NO. 02 (S.W. Quad.) Station 509+88 Offset 13.0 ft Rt. Ground Surface Elev. 611.96 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
				Surface Water Elev. 600.89 ft				
				Stream Bed Elev. 600.49 ft				
				Groundwater Elev.: First Encounter 597.0 ft				
				Upon Completion 597.0 ft				
				After Hrs.				
				Medium to Dense Gray Fine to Coarse Sand with Free to Coarse Gravel (continued)	10			
					12			8
				Washed Sample 40.0' to 41.5'	18			
				Washed Sample 42.5' to 44.0'	11			
					14			13
					14			
				Washed Sample 45.0' to 46.5'				
					-45			
	WH			Washed Sample 47.5' to 49.0'	10			
	WH	0.5	16		12			16
	2	P			14			
604.96				Very Stiff Brown & Gray Silty Clay Loam Till				
	2				9			
	3	2.0	10	Washed Sample 50.0' to 51.5'	12			11
	4	P			18			
					18			
					-50			
	5			Washed Sample 52.5' to 54.0'	12			
	7	4.0	14		18			11
	8	P			18			
599.96				Stiff to Very Stiff Gray Silt with some Silty Clay Layers				
	4				14			
	4	2.0	21	Washed Sample 55.0' to 56.5'	16			13
	4	P			18			
					-55			
	2			Limestone Surface	100/2'			
	4	2.3	22	Auger Refusal at 55 Ft.				
	6	P		End of Boring				
594.96								
	WH							
	2		15					
	7							
592.46				WH = Weight of Hammer				
					-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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SOIL BORING 053-0029.GPJ IL_DOT.GDT 10/26/18

SOIL BORING 053-0029.GPJ IL_DOT.GDT 10/26/18

EFK Moen Civil Engineering Design

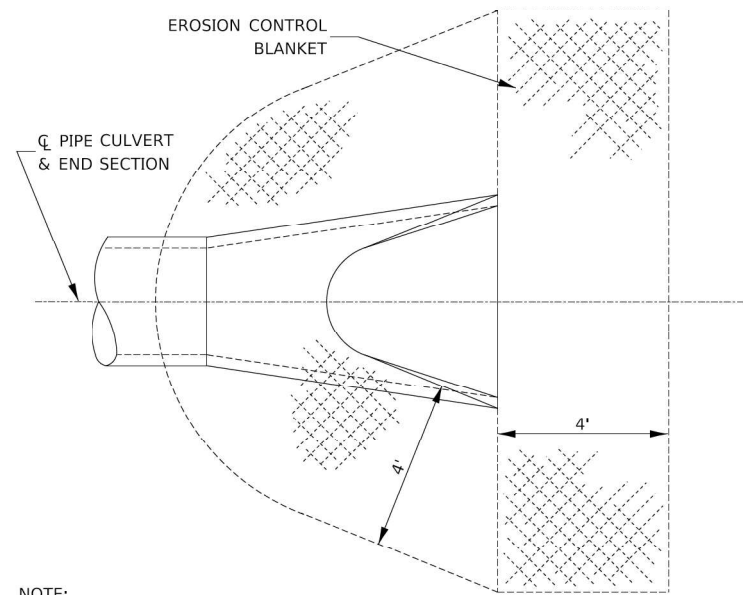
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS STRUCTURE NO. 053-2040

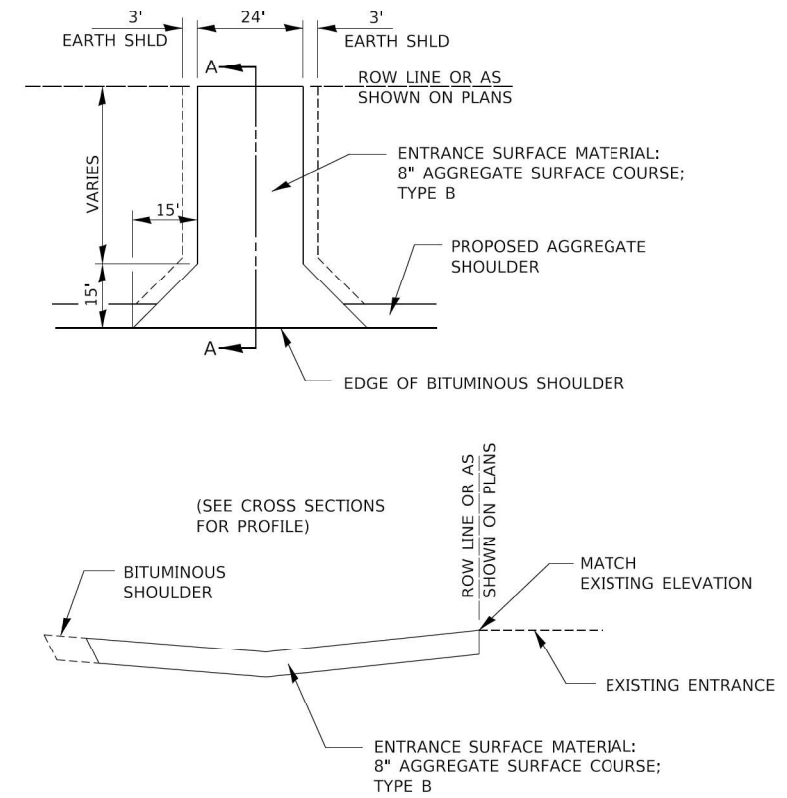
SHEET 8 OF 8 SHEETS

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 38
CONTRACT NO. 66F92				
ILLINOIS		FED. AID PROJECT		

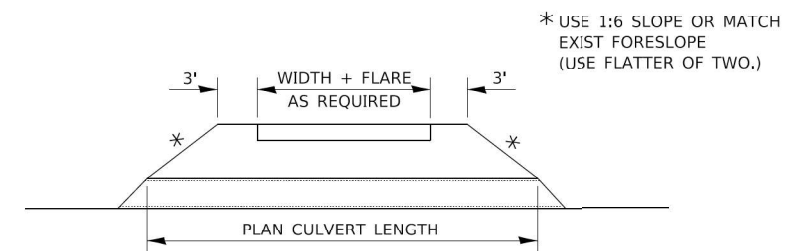
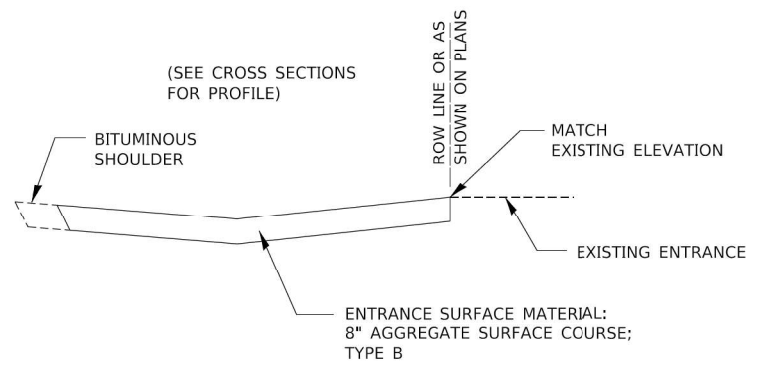


NOTE:
TO BE USED AT ALL END SECTIONS

**DETAIL OF EROSION CONTROL BLANKET
LINING AROUND END SECTION**



SECTION A-A

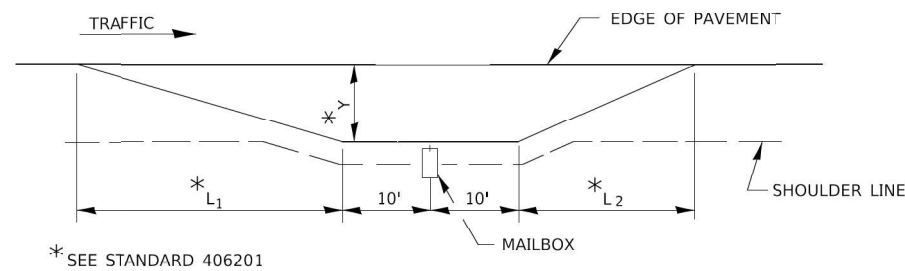


FIELD ENTRANCE DETAIL

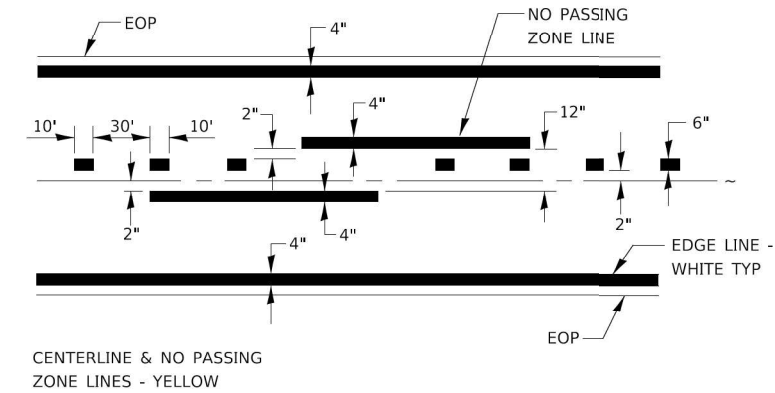
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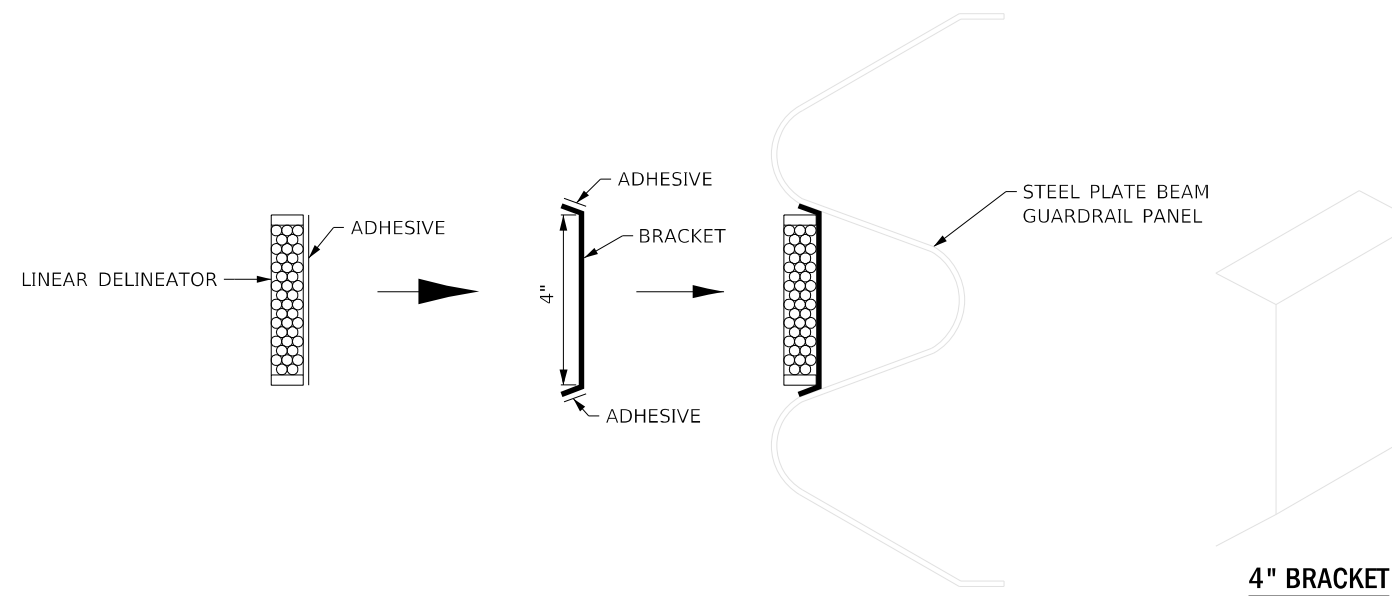
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649	(108BR-4)BR	LIVINGSTON	49	39
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				



RURAL MAILBOX TURNOUT DETAILS



PAVEMENT MARKING



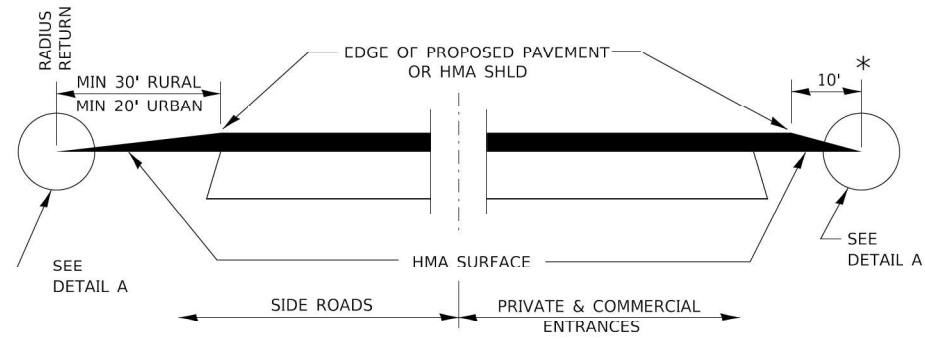
LINEAR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL

LINEAR DELINEATOR SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS

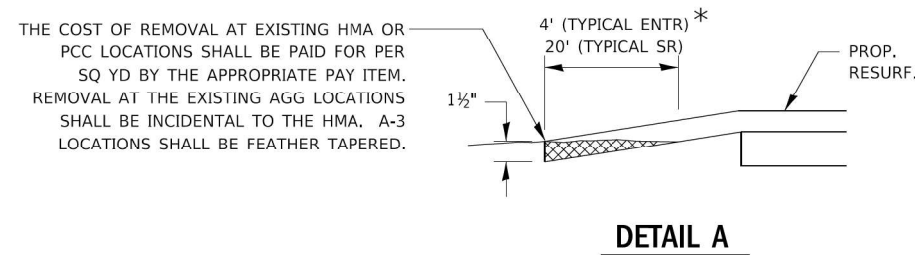
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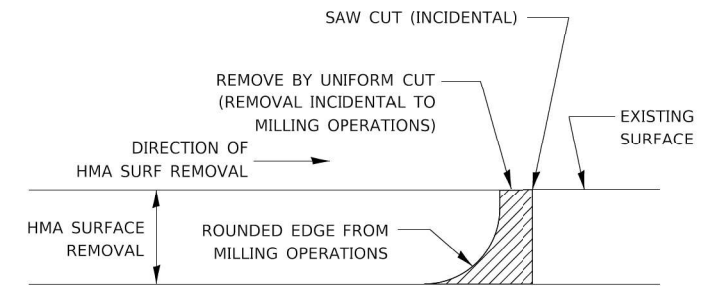
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CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				



SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS

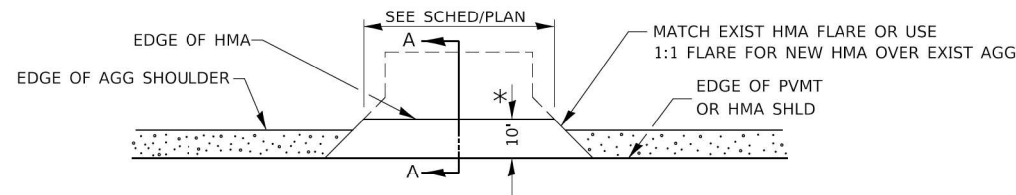


THE COST OF REMOVAL AT EXISTING HMA OR PCC LOCATIONS SHALL BE PAID FOR PER SQ YD BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.



NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS



PLAN AT PRIVATE & COMMERCIAL ENTRANCES

(DO NOT RESURFACE FIELD ENTRANCES)

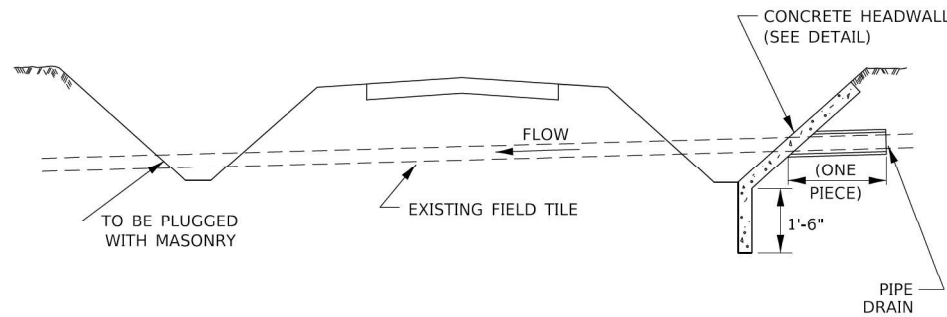
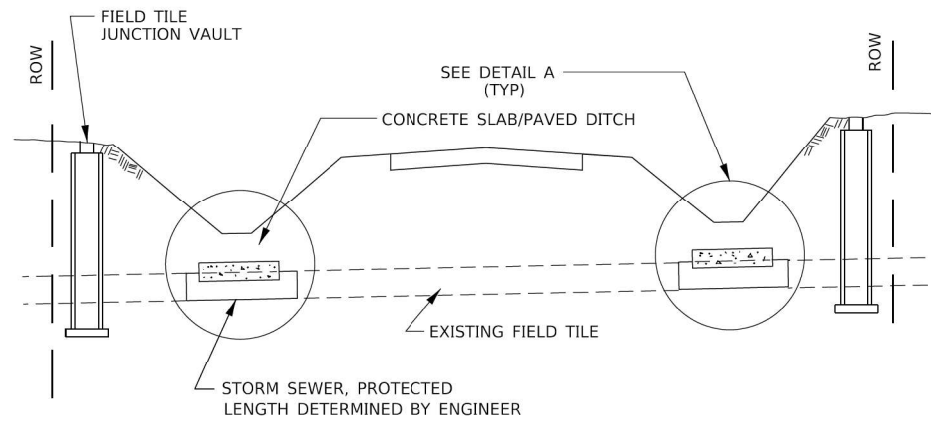
* PROPOSED HMA RESURFACING AT PUBLIC EDUCATIONAL FACILITY ENTRANCES SHALL BE EXTENDED TO THE RIGHT-OF-WAY LIMITS.

MODEL: Defaul; FILE NAME: 23-0007.11.DDOT.D3.PFE194.WO11.IL.17.Civert.ReplacementDesignPrelimPbSheet.D36699.sh-d3detail.cgm

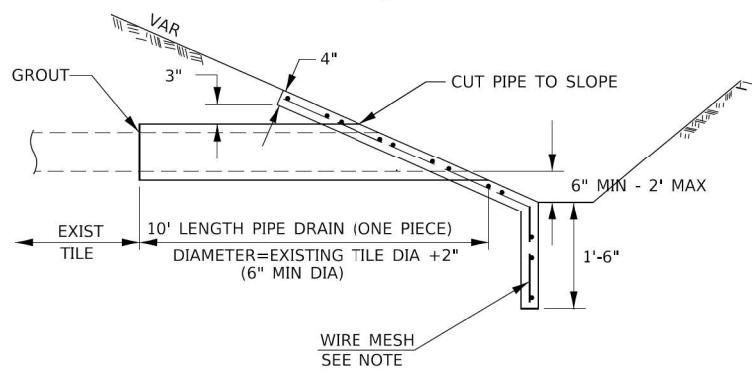
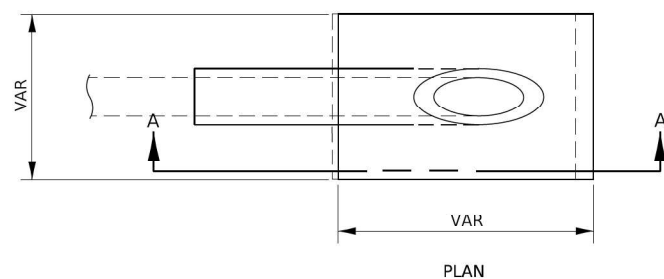
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	DRAWN - SK	REVISED -
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

IL 17 BRIDGE REPLACEMENT			
ENTRANCES AND BUTT JOINT DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 41
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

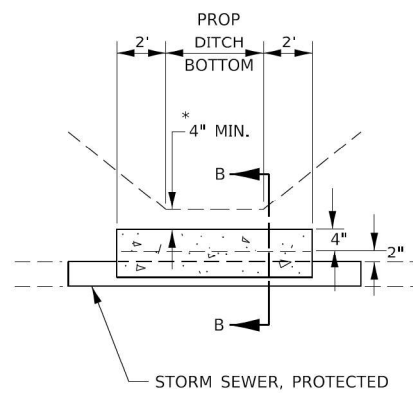


FIELD TILE REPLACEMENT



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

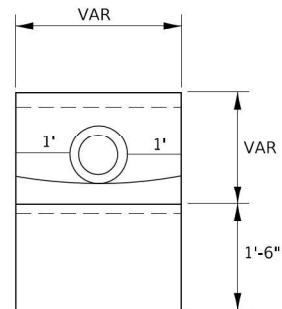
* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

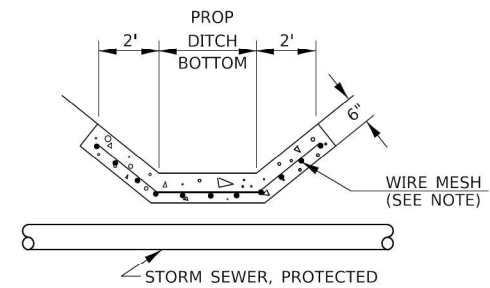
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

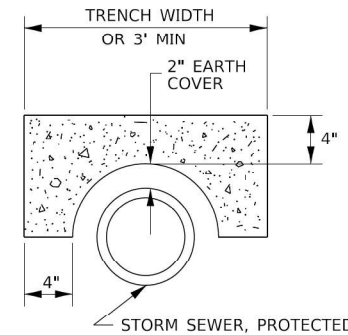


END VIEW

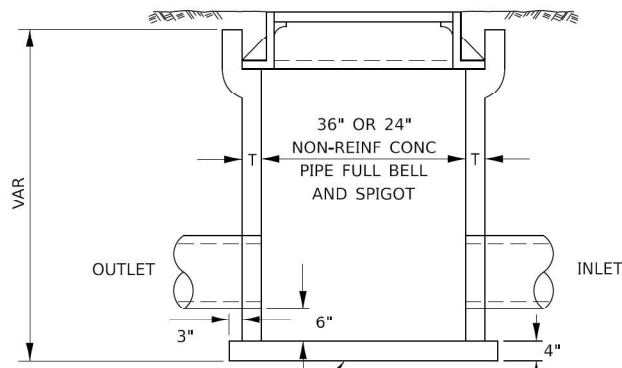


DETAIL C

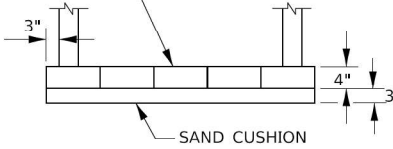
NO SCALE



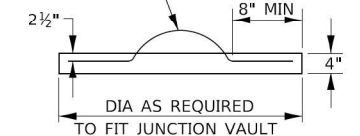
SECTION B-B



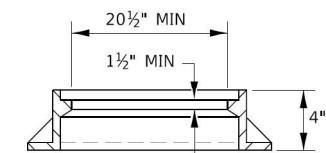
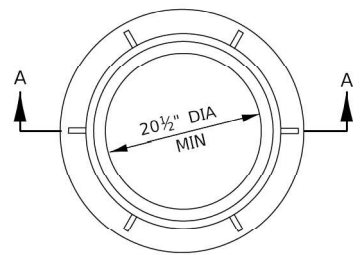
CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



1 NO 4 BAR LIFT LOOP



FIELD TILE JUNCTION VAULT



SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

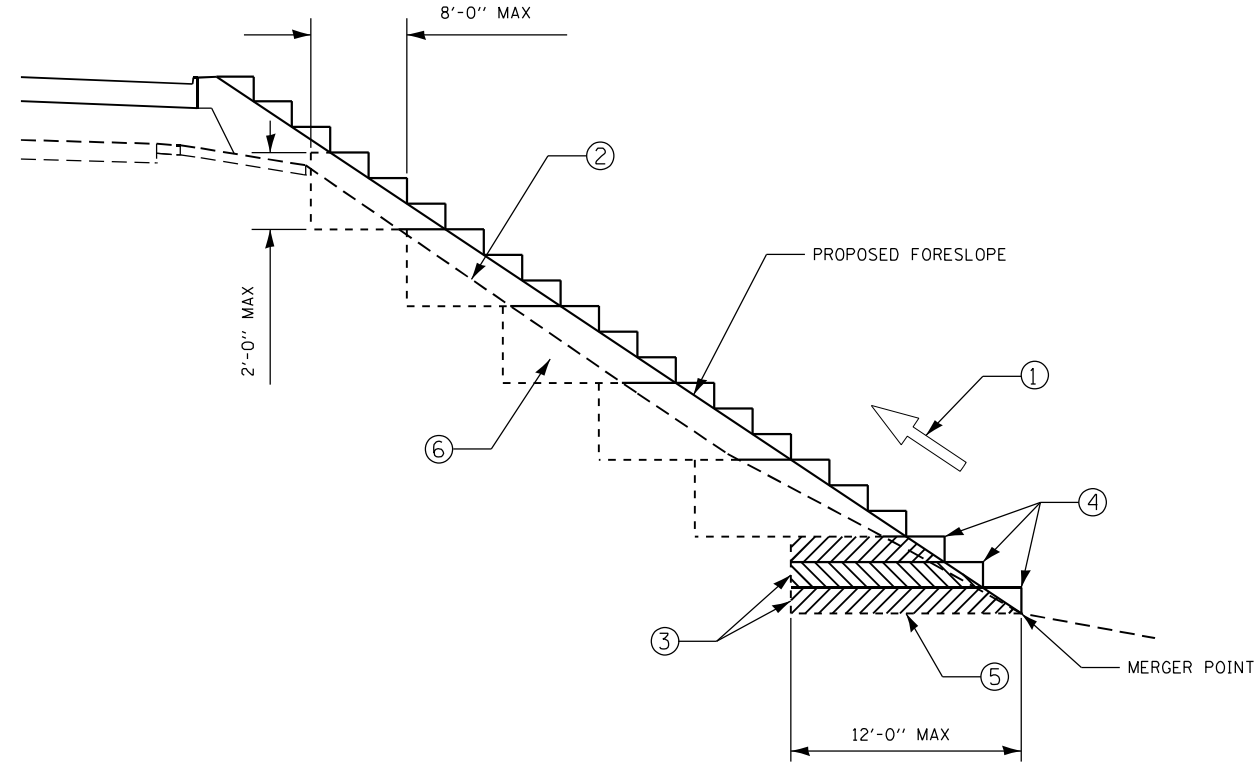
NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

MODEL: Defaul
FILE NAME: 23-20027.11.DDOT.D3.PFB.194.WO.11.IL.17.Culvert_ReplacementDesign.PrelimPbSheet.D366F92.sht-C32detail.cgm

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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

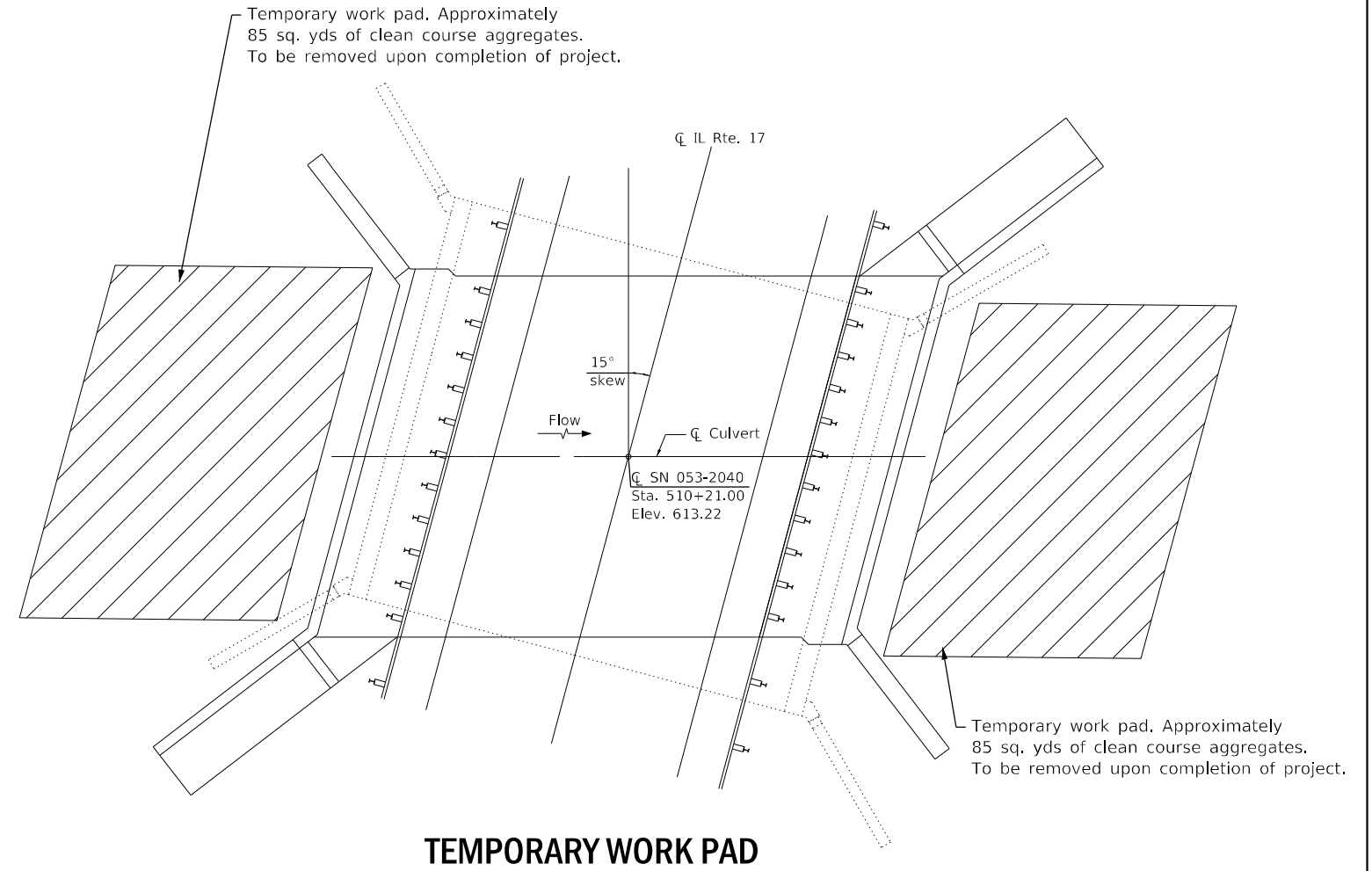
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	42
			CONTRACT NO. 66F92	
ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING FOR EMBANKMENT DETAIL

SCALE: NONE

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03
- ③ BENCH CUT EXISTING FINAL SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION, AND THEIR CONSTRUCTION SHALL BE INCLUDED IN THE PRICES FOR THESE ITEMS.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5'.



TEMPORARY WORK PAD

MODEL: D:\efk\h...
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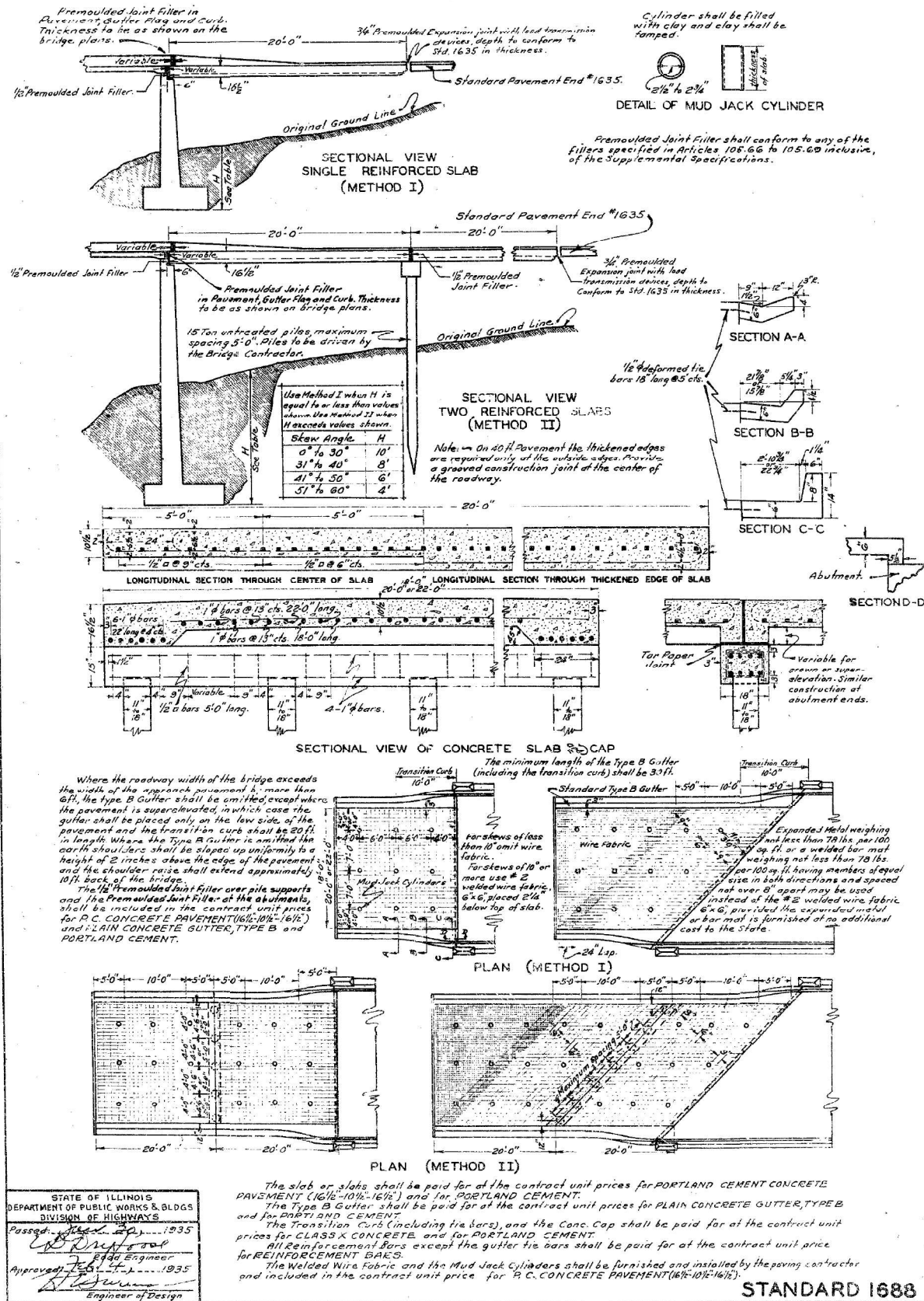
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
BENCHING AND TEMPORARY WORK PAD DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-4)BR	LIVINGSTON	49	43
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

DETAILS OF BRIDGE APPROACHES



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS
DIVISION OF HIGHWAYS

Approved: *[Signature]* 10/25/1935
Approved: *[Signature]* 10/25/1935
Approved: *[Signature]* 10/25/1935

The slab or slabs shall be paid for at the contract unit prices for PORTLAND CEMENT CONCRETE PAVEMENT (16 1/2-10 1/2-16 1/2) and for PORTLAND CEMENT.

The Type B Gutter shall be paid for at the contract unit prices for PLAIN CONCRETE GUTTER, TYPE B and for CEMENT AND CEMENT.

The Transition Curb (including tie bars), and the Conc. Cap shall be paid for at the contract unit prices for CLASS X CONCRETE and for PORTLAND CEMENT.

All Reinforcement Bars except the gutter tie bars shall be paid for at the contract unit price for REINFORCEMENT BARS.

The Welded Wire Fabric and the Mud Jack Cylinders shall be furnished and installed by the paving contractor and included in the contract unit price for P.C. CONCRETE PAVEMENT (16 1/2-10 1/2-16 1/2).

FOR INFORMATION ONLY

MODEL: Definitive
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EFK Moen
Civil Engineering Design

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	DRAWN - SK	REVISED -
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PLOT DATE = 5/25/2022	DATE - 5/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
BRIDGE APPROACH METHOD II - FOR INFORMATION ONLY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 44
CONTRACT NO. 66F92				
ILLINOIS FED. AID PROJECT				

MODEL: EXCL117_2
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EFK•Moen
 Civil Engineering Design

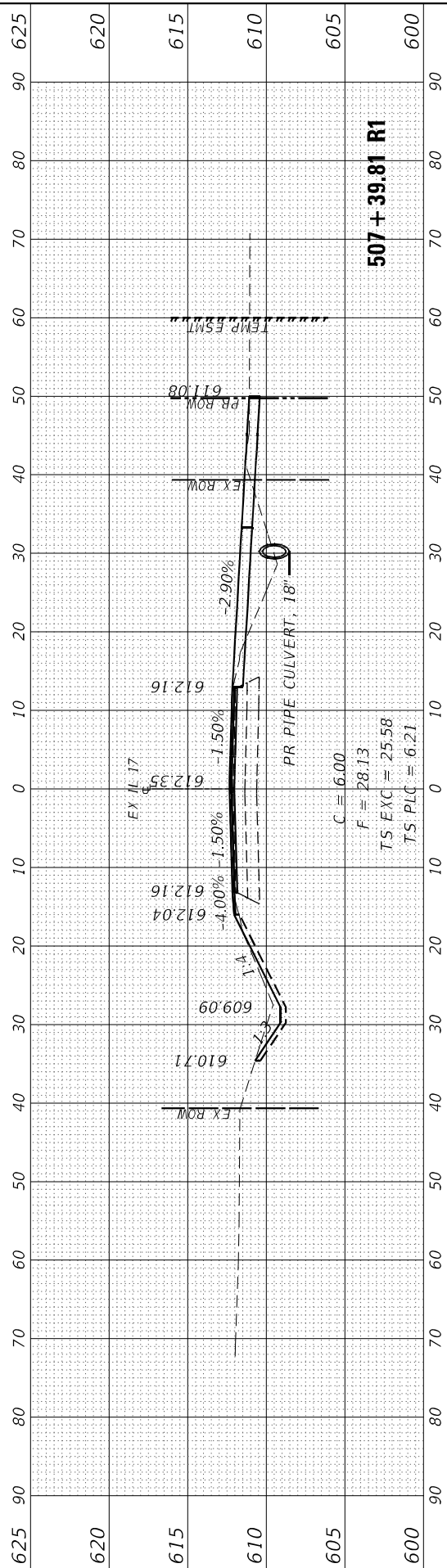
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
 IL 17 CROSS SECTIONS**

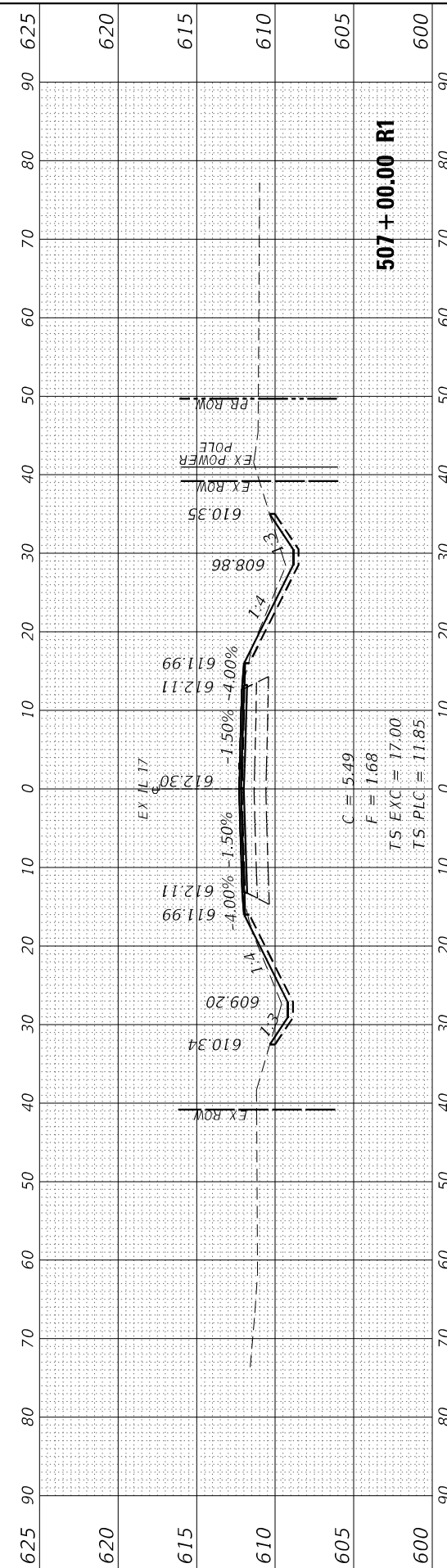
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			CONTRACT NO. 66F92	
ILLINOIS			FED. AID PROJECT	



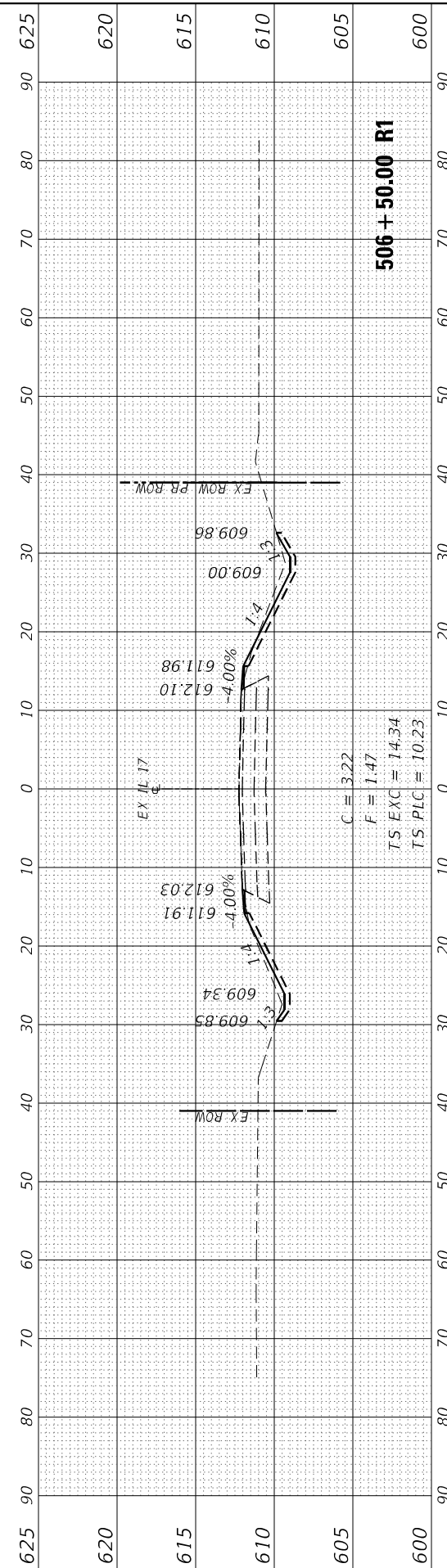
507 + 39.81 R1

C = 6.00
 F = 28.13
 TS EXC = 25.58
 TS PLC = 6.21



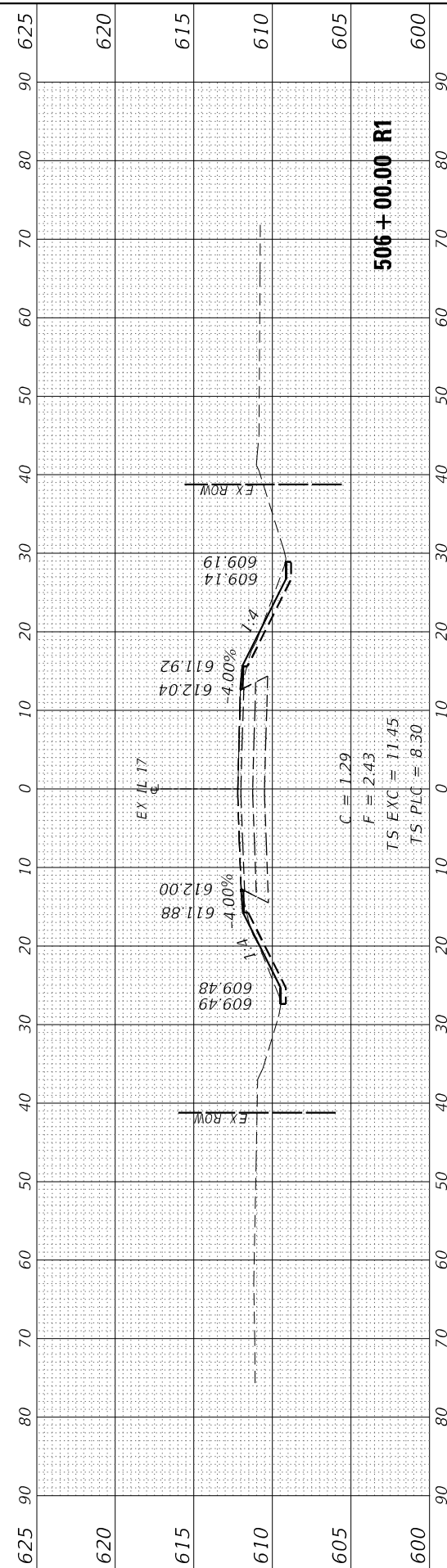
507 + 00.00 R1

C = 5.49
 F = 1.68
 TS EXC = 17.00
 TS PLC = 11.85



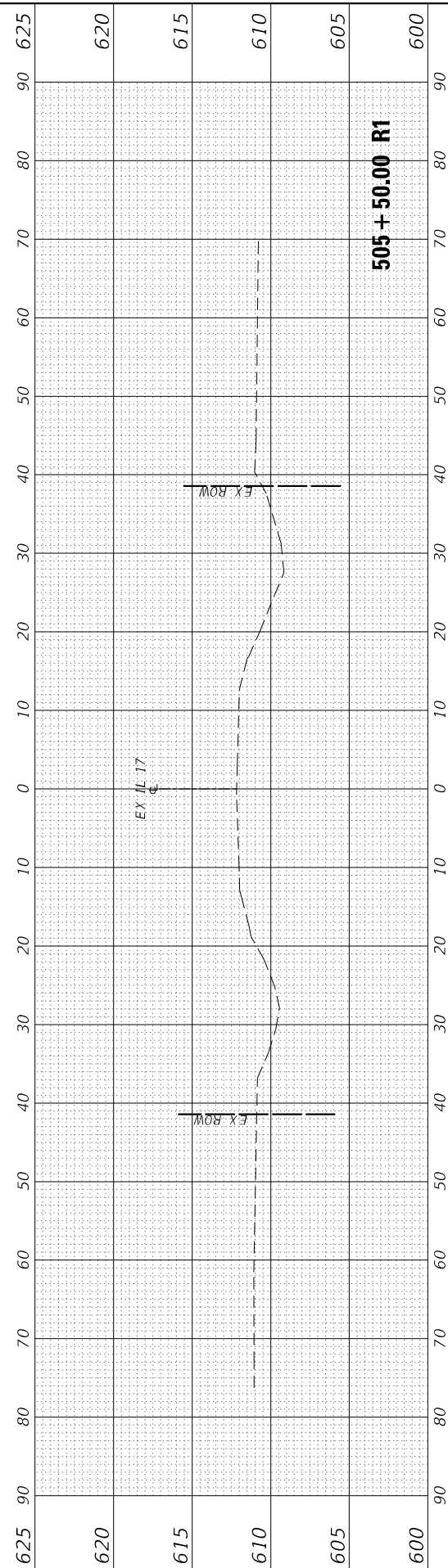
506 + 50.00 R1

C = 3.22
 F = 1.47
 TS EXC = 14.34
 TS PLC = 10.23



506 + 00.00 R1

C = 1.29
 F = 2.43
 TS EXC = 11.45
 TS PLC = 8.30



505 + 50.00 R1

MODEL: EXCL117_2
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EFK•Moen
 Civil Engineering Design

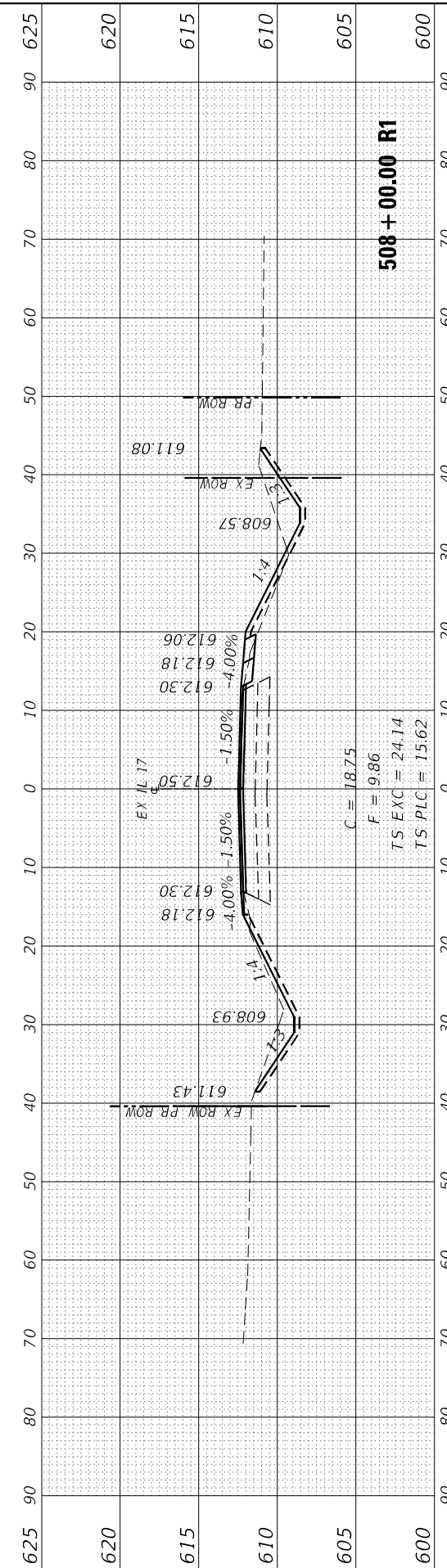
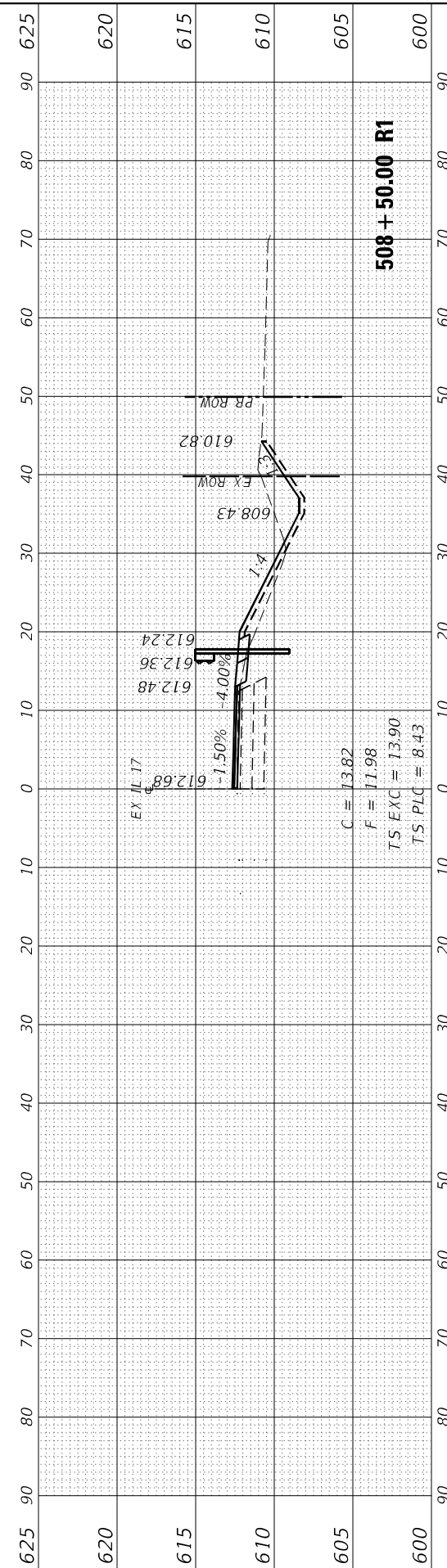
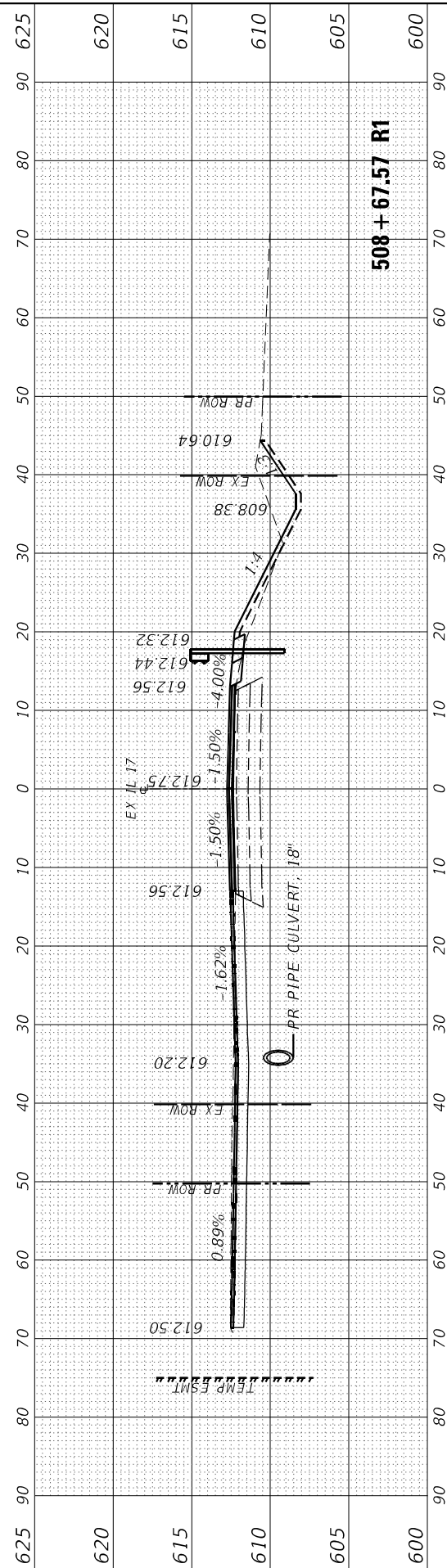
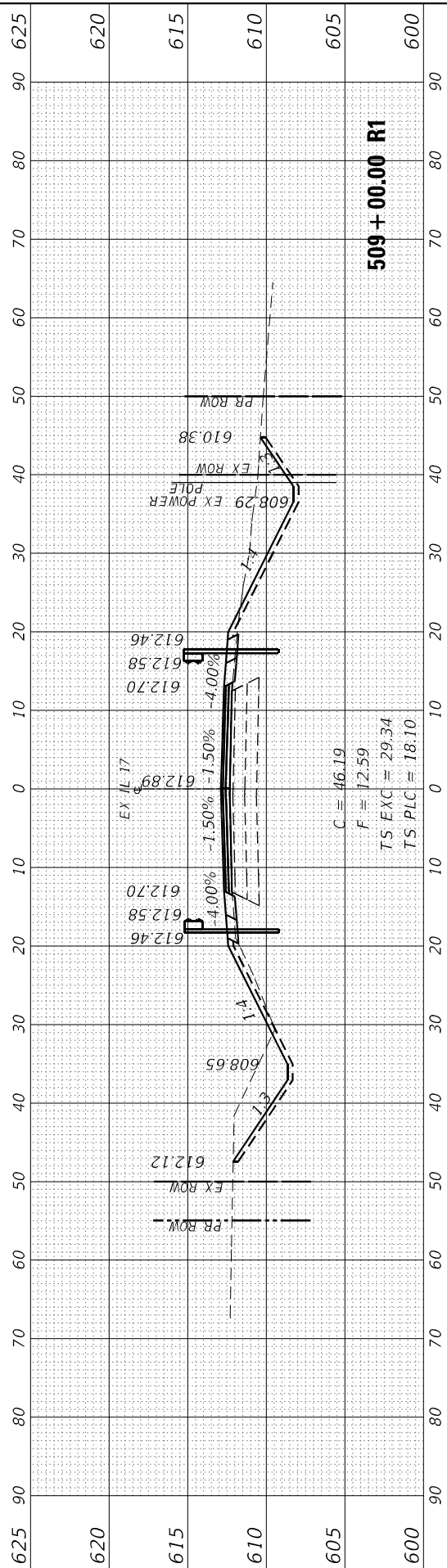
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	DATE - 5/25/2022	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
 IL 17 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 507+50.00 R1 TO STA. 509+00.00 R1

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 46
		CONTRACT NO. 66F92		
		ILLINOIS		FED. AID PROJECT



MODEL: EXCL117_2
 FILE NAME: 2/2007/11 D0T D3 P/B/94 W/11 IL 17 Culvert Rehabilitation/D3/Design/Prelim/Refr/D366932-Cor.dgn

EFK•Moen
 Civil Engineering Design

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PLOT DATE = 5/25/2022	CHECKED - RG
	DATE - 5/25/2022

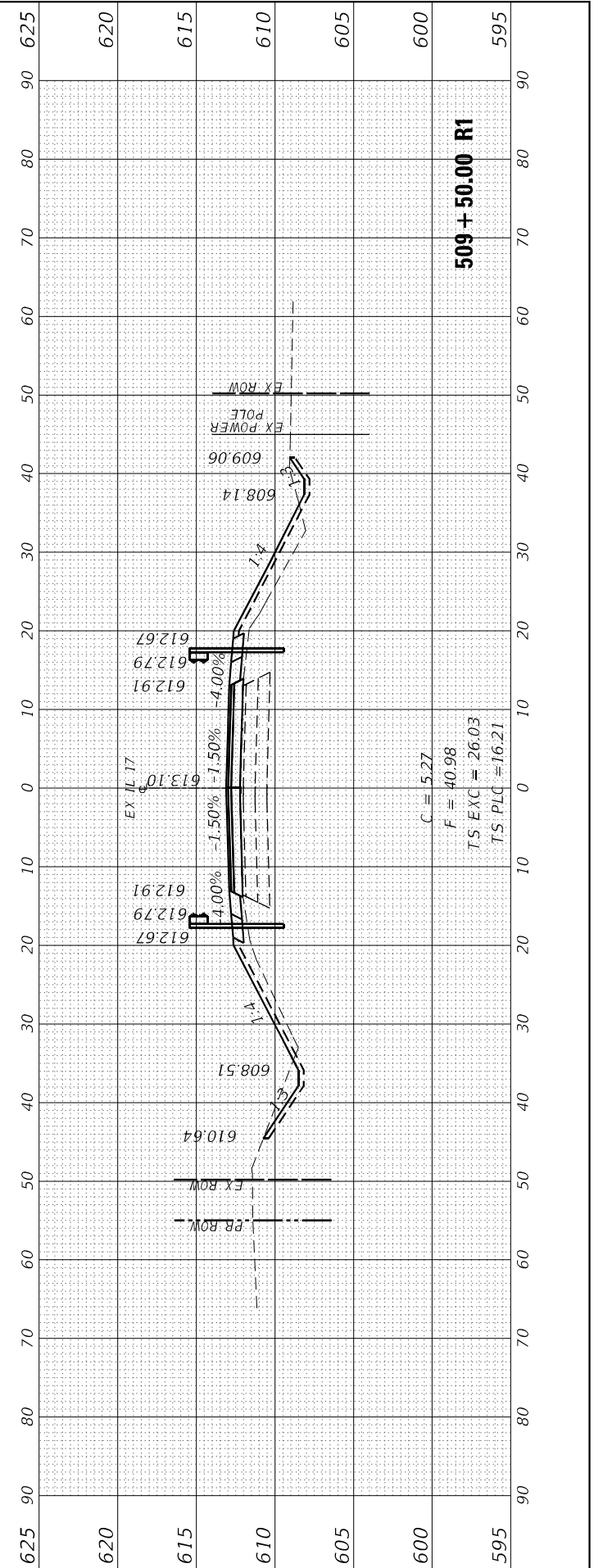
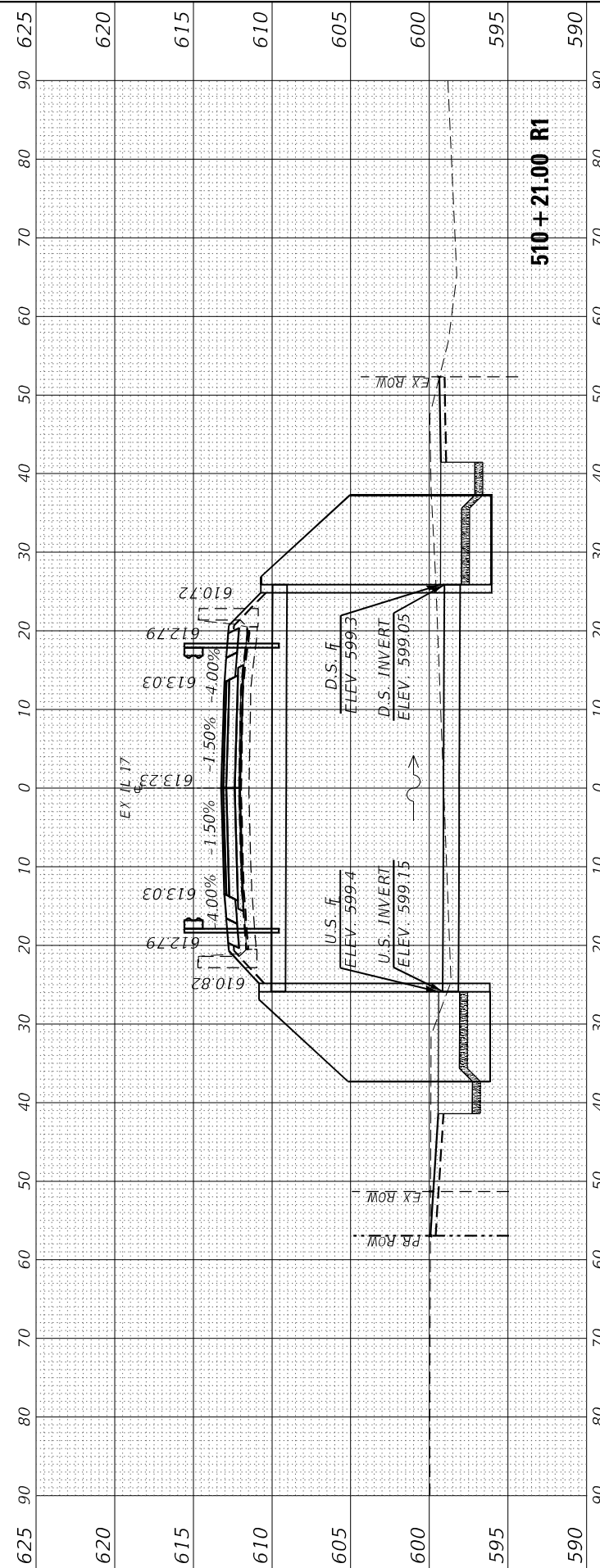
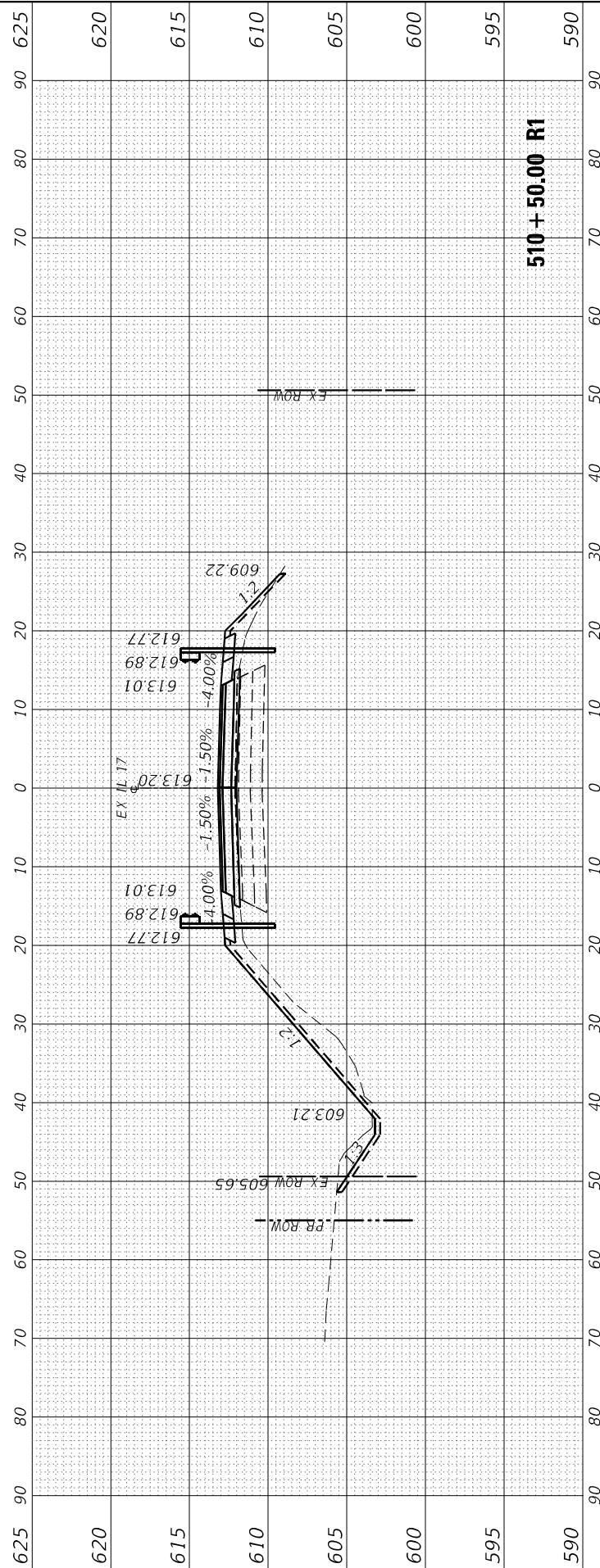
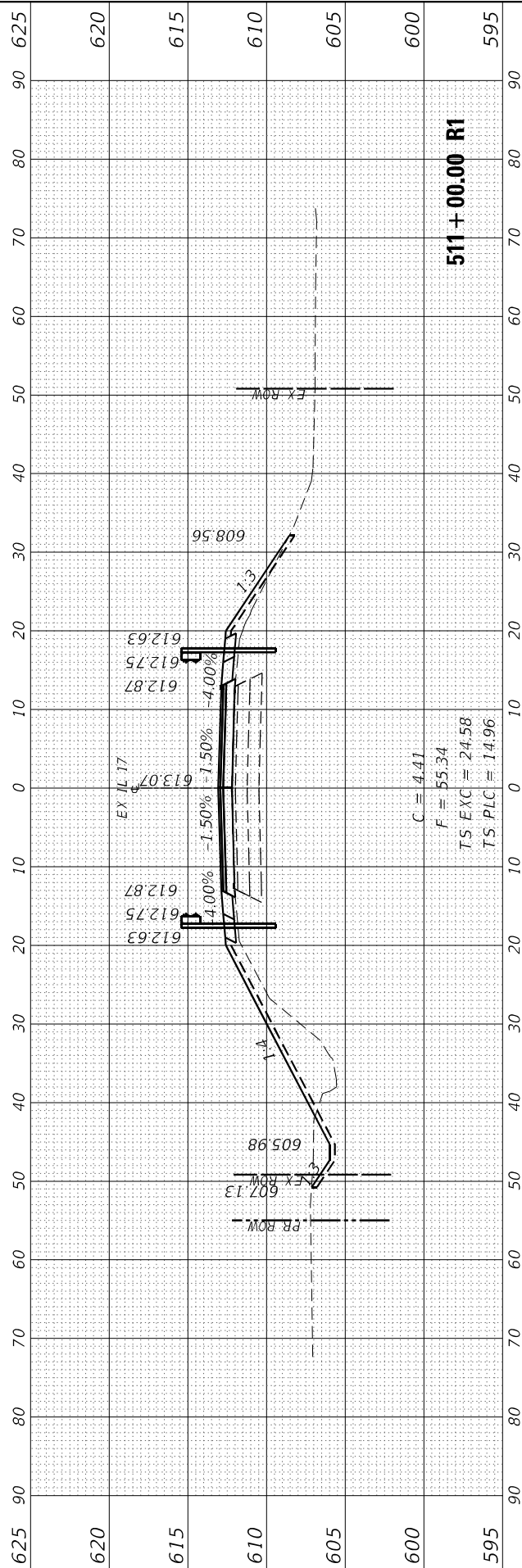
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
 IL 17 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 509+50.00 R1 TO STA. 511+00.00 R1

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 47
			CONTRACT NO. 66F92	
		ILLINOIS FED. AID PROJECT		



MODEL: EXCL117_2
 FILE NAME: 2/2007/11 D0T D3 P1B194 W011 IL 17 Culvert Rehabilitation/D3/Design/Prelim/Refs/D36E932-Cor.dgn



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PLOT DATE = 5/25/2022	CHECKED - RG	REVISIONS
	DATE - 5/25/2022	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 17 BRIDGE REPLACEMENT
 IL 17 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 513+00.00 R1 TO STA. 515+00.00 R1

F.A.P. RTE. 649	SECTION (108BR-4)BR	COUNTY LIVINGSTON	TOTAL SHEETS 49	SHEET NO. 49
			CONTRACT NO. 66F92	
ILLINOIS		FED. AID PROJECT		

