

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	1
		ILLINOIS	CONTRACT NO. 70574	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 - 5

PROPOSED HIGHWAY PLANS

FAP ROUTE 693 (IL 9)
SECTION 21BR-2
PROJECT STP - 97C2(491)
BRIDGE REPLACEMENT
MCLEAN COUNTY
AT STREAM 0.4 MI W OF 3200
EAST RD NW OF ARROWSMITH

CURRENT TRAFFIC DATA
F.A.P. 693 (IL.9)

2025 ADT	2100
PV	87.7% 1841.7
SU	4.8% 100.8
MU	4.3% 90.3

DESIGN DESIGNATION

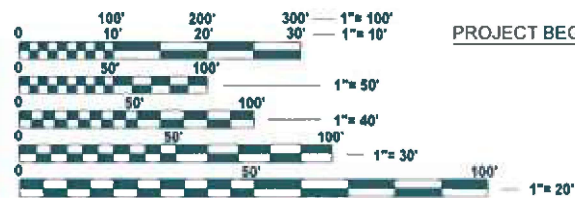
MINOR ARTERIAL

EXISTING S.N. 057-0077 AT STA. 1647+11.60
CARRYING ILLINOIS ROUTE 9 OVER UNNAMED
STREAM TO BE REMOVED AND REPLACED.
PROPOSED S.N. 057-2043 AT STATION 1647+22.00
WILL BE A DOUBLE 12'X4'X48'-6" BOX CULVERT
WITH CAST IN PLACE END SECTIONS AT 20° SKEW

C-95-020-07

PROJECT ENDS: STA. 1647+47.1 +-

PROJECT BEGINS: STA. 1646+93.9 +-

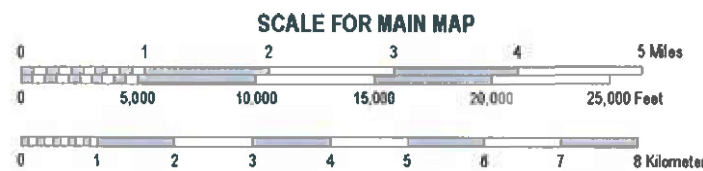
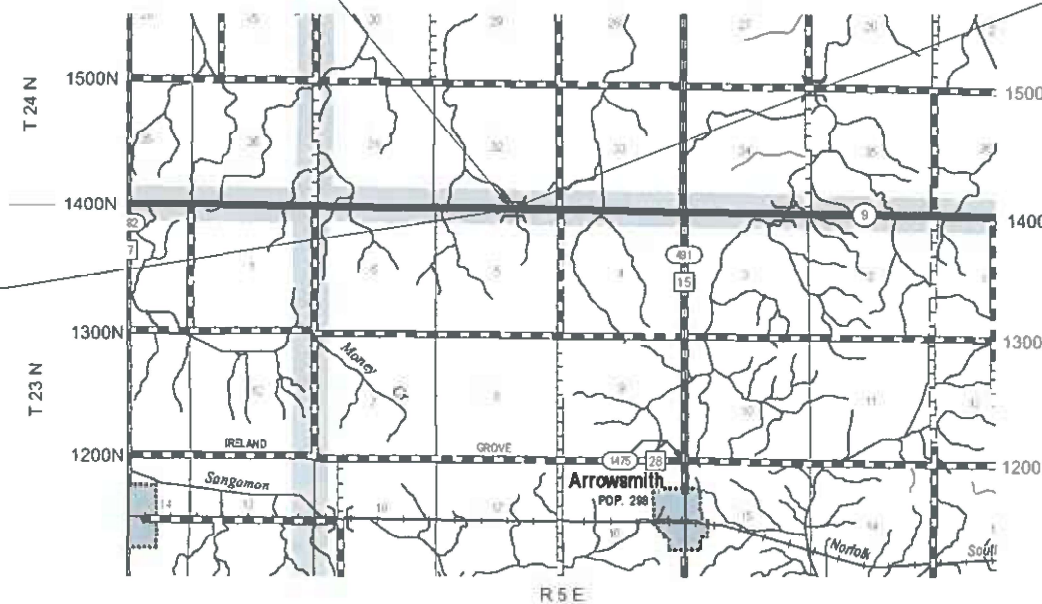


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

TOWNSHIPS: ARROWSMITH, MARTIN
PROJECT ENGINEER: JASON STULTS
SQUAD LEADER: JASON GOBLE
DESIGNER: MATT MURPHY
PHONE: 217-465-4181

CONTRACT NO. 70574



GROSS LENGTH = 53.2 FT. = 0.010 MILE
NET LENGTH = 53.2 FT. = 0.010 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1/7 2026
Kamil A. Bennett *REG*
REGIONAL ENGINEER

March 20 20 26
Scott A. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 20 20 26
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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40-50	IL. RTE. 9 CROSS SECTIONS

LIST OF STANDARDS

STANDARD NO.	NAME OF STANDARD
000001-09	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
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630101-11	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
666001-01	RIGHT-OF-WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-11	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

MODEL: SHT_PLAN
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PLOT DATE = 12/7/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS
LIST OF STANDARDS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCCLEAN	50	2
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

G.N.-100
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.37
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C & OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-280
TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N.-280A
THE MULCH PAY ITEM IN THE PLANS INCLUDES QUANTITIES FOR TEMPORARY MULCH FOR EROSION CONTROL. THE TEMPORARY MULCH INCLUDES MAINTENANCE AND REMOVAL IF NECESSARY PER THE REQUIREMENTS OF ARTICLE 280 OF THE STANDARD SPECIFICATIONS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SOME OR ALL OF THE MULCH USED AS TEMPORARY EROSION CONTROL WILL BE DELETED IF IT IS NOT NECESSARY DUE TO ESTABLISHMENT OF EXISTING PERMANENT SEEDING.

G.N.-540
THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-667
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE AND ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAY OUT OF THESE MARKERS.

G.N.-1004.01
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-20038
AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

COMMITMENTS
THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

BENCH MARK DESCRIPTIONS

BM: 4825-1 ELEVATION: 834.04

CHISELED SQUARE ON TOP OF BRIDGE CURB IN THE CENTER OF THE NORTH SIDE OF S.N. 057-0077
STA. 1647+12.03, 15.83' RT., ELEV. = 834.04

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USER NAME = Eric.Thomas	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
BENCHMARK DESCRIPTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	3
CONTRACT NO. 70574				
			ILLINOIS	FED. AID PROJECT

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAP 693 (IL.9)
 2 LANE RURAL
 COUNTY: MCLEAN COUNTY
 STA. 1646+93.9 +/-
 STA. 1647+47.1 +/-
 FUNDING BREAKOUT: 80% FEDERAL
 20% STATE
 CONSTRUCTION CODE: 0010

LOCATION OF WORK: FAP 693 (IL.9)
 2 LANE RURAL
 COUNTY: MCLEAN COUNTY
 STA. 1646+93.9 +/-
 STA. 1647+47.1 +/-
 FUNDING BREAKOUT: 80% FEDERAL
 20% STATE
 CONSTRUCTION CODE: 0010

CODE #	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	270.0
20400800	FURNISHED EXCAVATION	CU YD	215.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	163.0
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100.0
25000210	SEEDING, CLASS 2A	ACRE	0.8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68.0
25100115	MULCH, METHOD 2	ACRE	1.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100.0
28000305	TEMPORARY DITCH CHECKS	FOOT	72.0
28000400	PERIMETER EROSION BARRIER	FOOT	300.0
28100107	STONE RIPRAP, CLASS A4	SQ YD	231.0
28200200	FILTER FABRIC	SQ YD	231.0

* SPECIALITY ITEM

CODE #	ITEM	UNIT	TOTAL QUANTITY
44200050	WELDED WIRE REINFORCEMENT	SQ YD	162.0
44200964	CLASS B PATCHES TYPE IV, 9 INCH	SQ YD	162.0
44201299	DOWEL BARS 1-1/2"	EACH	44.0
44213200	SAW CUTS	FOOT	55.0
44213204	TIE BARS 3/4"	EACH	25.0
48101500	AGGREGATE SHOULDER, TYPE B, 6"	SQ YD	36.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	44.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
51500100	NAME PLATES	EACH	1.0
54001001	BOX CULVERT END SECTIONS CULVERT NO. 1	EACH	2.0
54011204	PRECAST CONCRETE BOX CULVERTS 12' X 4'	FOOT	72.0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	156.0
61100605	MISCELLANEOUS CONCRETE	CU YD	1.0
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2.0

* SPECIALITY ITEM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	4
CONTRACT NO. 70574				
SCALE:	SHEET 1	OF 2	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	4
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAP 693 (IL.9)
 2 LANE RURAL
 COUNTY: MCLEAN COUNTY
 STA. 1646+93.9 +/-
 STA. 1647+47.1 +/-
 FUNDING BREAKOUT: 80% FEDERAL
 20% STATE
 CONSTRUCTION CODE: 0010

LOCATION OF WORK: FAP 693 (IL.9)
 2 LANE RURAL
 COUNTY: MCLEAN COUNTY
 STA. 1646+93.9 +/-
 STA. 1647+47.1 +/-
 FUNDING BREAKOUT: 80% FEDERAL
 20% STATE
 CONSTRUCTION CODE: 0010

CODE #	ITEM	UNIT	TOTAL QUANTITY
61140600	STORM SEWERS (SPECIAL), 18"	FOOT	70.0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	325.0
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	100.0
* 63000030	STRONG POST GUARDRAIL ATTACHED TO STRUCTURE	FOOT	60.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0
63200310	GUARDRAIL REMOVAL	FOOT	360.0
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3.0
67100100	MOBILIZATION	L SUM	1.0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14.0
* 72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	4.0
* 78001110	PAINT PAVEMENT MARKING LINE 4"	FOOT	1238.0
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	14.0
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	156.0

* SPECIALITY ITEM

CODE #	ITEM	UNIT	TOTAL QUANTITY
X7010216	TRAFFIC CONTROL & PROTECTION, (SPECIAL)	L SUM	1.0
X7200203	DETOUR SIGNING	L SUM	1.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0
Z0038700	PERMANENT BENCH MARKS	EACH	1.0

* SPECIALITY ITEM

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PLOT DATE	= 12/7/2022	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

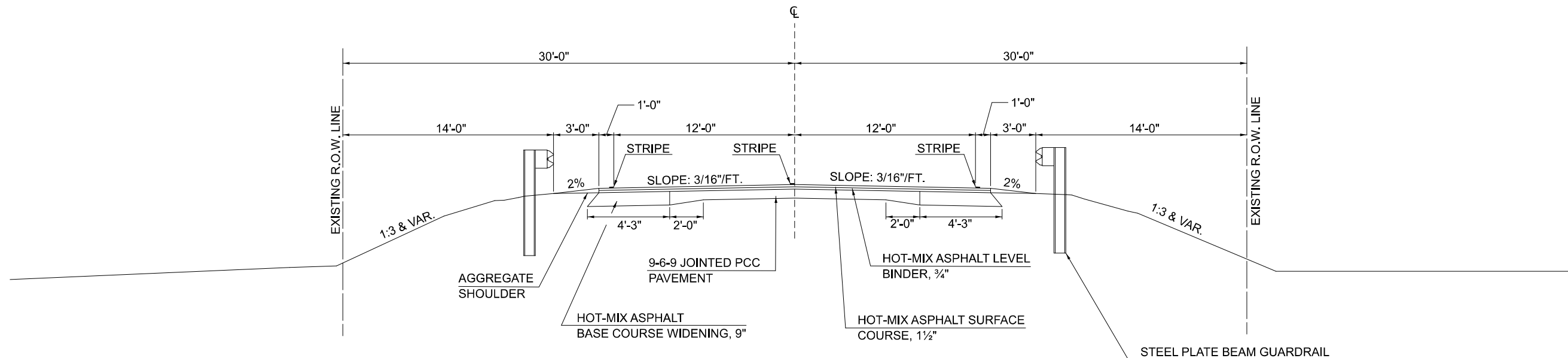
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693	21BR-2	MCLEAN	50	5
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

STEEL PLATE BEAM GUARDRAIL LIMITS
 STA. LT. 1646+08.92 TO LT. 1646+98.42
 STA. LT. 1647+24.34 TO LT. 1648+90.14

A EXISTING ROADWAY TYPICAL SECTION

STATION 1644+00.00 TO STATION 1646+95.90 (B)
 (B) STATION 1647+44.50 TO STATION 1650+50.00

STEEL PLATE BEAM GUARDRAIL LIMITS
 STA. RT. 1646+08.57 TO RT. 1646+98.47
 STA. RT. 1647+24.87 TO RT. 1648+14.48

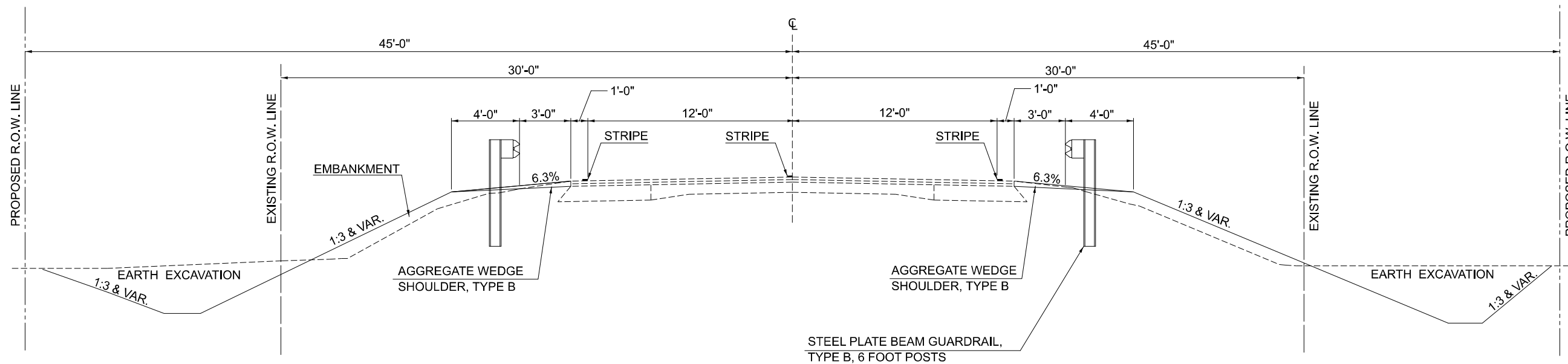


STEEL PLATE BEAM GUARDRAIL LIMITS
 STA. LT. 1645+91.00 TO LT. 1647+01.00
 STA. LT. 1647+31.00 TO LT. 1649+03.00

1 PROPOSED ROADWAY TYPICAL SECTION

STATION 1644+50.00 TO STATION 1646+93.90 (2)
 (2) STATION 1647+47.10 TO STATION 1650+50.00

STEEL PLATE BEAM GUARDRAIL LIMITS
 STA. RT. 1645+31.00 TO RT. 1647+12.00
 STA. RT. 1647+42.00 TO RT. 1648+43.00



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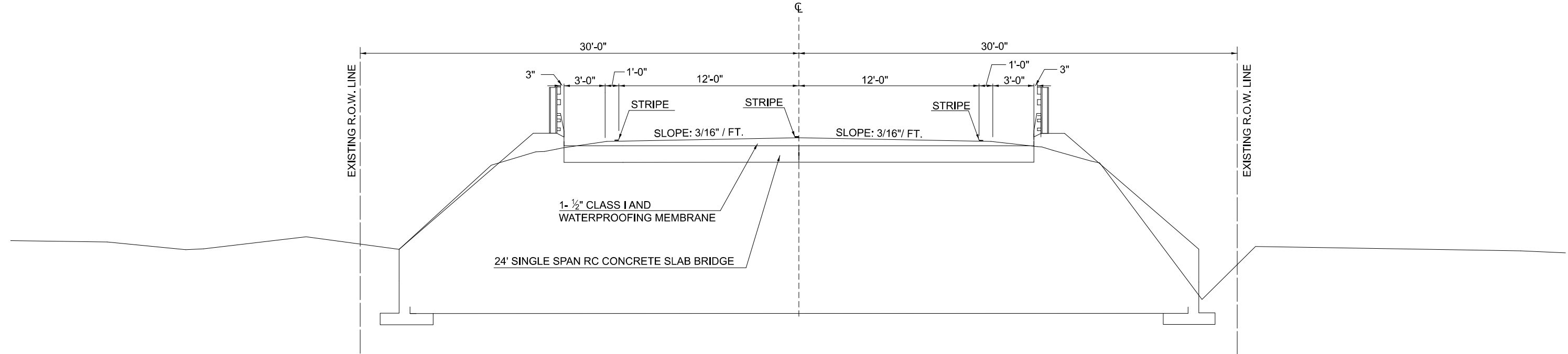
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	6
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

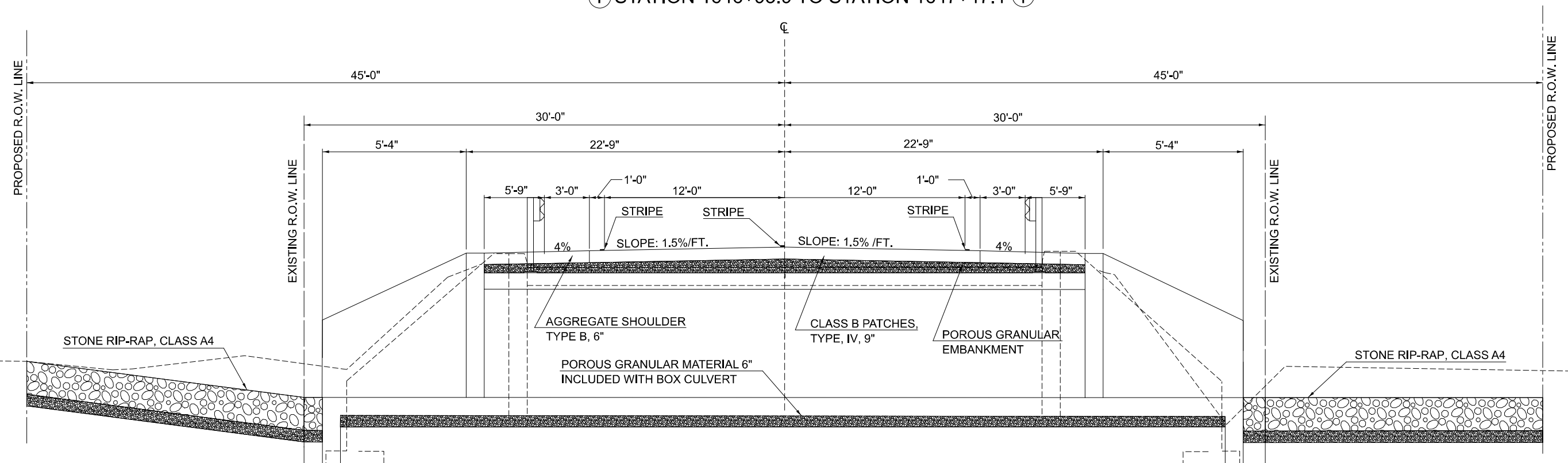
B EXISTING ROADWAY TYPICAL SECTION AT BRIDGE

A STATION 1646+95.90 TO STATION 1647+44.50 A



2 PROPOSED ROADWAY TYPICAL SECTION AT BOX CULVERT

1 STATION 1646+93.9 TO STATION 1647+47.1 1



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STATE OF ILLINOIS
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EXISTING ROADWAY TYPICAL SECTION AT BRIDGE
PROPOSED ROADWAY TYPICAL SECTION AT BOX CULVERT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	7
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

20700220 POROUS GRANULAR EMBANKMENT

STATION	TO	STATION	CU YDS
1646+93.74		1647+46.93	163.0

21301052 EXPLORATORY TRENCH 52"

STATION	TO	STATION	OFF SET	FOOT
1647+07.22		1647+57.22	40.0' RT.	50.0
1646+86.76		1647+36.77	40.0' LT.	50.0
			TOTAL:	100.0

25000210 SEEDING CLASS 2A

STATION	TO	STATION	ACRE
1644+50		1650+50.00	0.8

25000400 NITROGEN FERTILIZER NUTRIENT

STATION	TO	STATION	POUND
1644+50.00		1650+50.00	68.0

25000500 PHOSPHORUS FERTILIZER NUTRIENT

STATION	TO	STATION	POUND
1644+50.00		1650+50.00	68.0

25000600 POTASSIUM FERTILIZER NUTRIENT

STATION	TO	STATION	POUND
1644+50.00		1650+50.00	68.0

25100115 MULCH METHOD 2

STATION	TO	STATION	ACRE
1644+50.00		1650+50.00	1.6

28000250 TEMPORARY EROSION CONTROL SEED

STATION	TO	STATION	POUND
1644+50.00		1650+50.00	100.0

28000305 TEMPORARY DITCH CHECKS

STATION	OFF SET	FOOT
1645+00	LT. 28.0'	6.0'
1645+00	RT. 28.0'	6.0'
1646+00	LT. 35.0'	6.0'
1646+00	RT. 35.0'	6.0'
1646+79	LT. 35.0'	6.0'
1646+97	RT. 35.0'	6.0'
1647+51	LT. 35.0'	6.0'
1647+68	RT. 35.0'	6.0'
1648+75	LT. 35.0'	6.0'
1649+75	RT. 35.0'	6.0'
1649+93	LT. 22.0'	6.0'
1649+93	RT. 22.0'	6.0'
TOTAL:		72.0'

28000400 PERIMETER EROSION CONTROL BARRIER

STATION	TO	STATION	OFF SET	FOOT
1646+19.07		1647+69.07	LT. 45.0'	150.0'
1646+80.93		1648+30.93	RT. 45.0'	150.0'
			TOTAL:	300.0'

28100107 STONE RIPRAP CLASS A 4

STATION	TO	STATION	OFF SET	SQ YD
1647+01.00		1647+62.35	28.0' Rt.	115.24
1646+81.65		1647+43.02	28.0' Lt.	115.24
			TOTAL:	230.48
			USE:	231.0

28200200 FILTER FABRIC

STATION	TO	STATION	OFF SET	SQ YD
1647+01.00		1647+62.35	28.0' Rt.	115.24
1646+81.65		1647+43.02	28.0' Lt.	115.24
			TOTAL:	230.48
			USE:	231.0

44200050 WELDED WIRE REINFORCEMENT

STATION	TO	STATION	SQ YDS
1646+93.74		1647+46.93	TOTAL: 161.6
			USE: 162.0

44200964 CLASS B PATCH TYPE 4, 9"

STATION	TO	STATION	SQ YDS
1646+93.74		1647+46.93	TOTAL: 161.6
			162.0

44201299 DOWEL BARS 1-1/2"

STATION	TO	STATION	TOTAL: EACH
1646+93.74		1647+46.93	44.0
			USE: 44.0

44213200 SAW CUTS

STATION	TO	STATION	FOOT
1646+93.74		1647+46.93	TOTAL: 55.0

44213204 TIE BARS 3/4

STATION	TO	STATION	EACH
1646+93.74		1647+46.93	TOTAL: 25.0

48102100 AGGREGATE WEDGE SHOULDERS TYPE B

STATION	TO	STATION	OFF SET	TON
1644+50.00		1646+98.53	13.0' Rt.	10.94
1644+50.00		1646+89.25	13.0' Lt.	10.53
1647+51.72		1649+00.00	13.0' Rt.	10.92
1647+42.44		1649+00.00	13.0' Lt.	11.33
			TOTAL:	43.72
			USE:	44.0

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USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET 1	OF 2	SHEETS

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 8
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

48101500 AGGREGATE SHOULDER, TYPE B, 6"

STATION	TO	STATION	SQ.YD
RT. 1646+98.53		RT. 1647+51.72	17.7
LT. 1646+89.25		LT. 1647+42.44	17.7
TOTAL:			35.4
USE:			36.0

50100100 REMOVE EXISTING STRUCTURE

STATION	TO	STATION	EACH
1646+95.91		1647+27.29	1.0

51500100 NAME PLATES

STATION	EACH
27.3' Lt. 1646+27.28	1.0

54001001 BOX CULVERT END SECTION C1

STATION	EACH
1647+22.00	2.0

54011204 PRECAST CONCRETE BOX CULVERT 12' X 4'

STATION	FOOT
1647+22.00	72.0

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT. POSTS

OFF SET	STATION	TO	OFF SET	STATION	FOOT
Rt.	1645+75.79		Rt.	1646+87.79	112.0
Rt.	1647+67.85		Rt.	1648+30.35	62.5
Lt.	1646+36.00		Lt.	1646+86.00	50
Lt.	1647+56.20		Lt.	1648+53.83	100.0
TOTAL:					324.5
USE:					325.0

63000007 STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FT. POSTS

OFF SET	STATION	TO	OFF SET	STATION	FOOT
Rt.	1646+87.79		Rt.	1647+12.79	25.0
Rt.	1647+42.85		Rt.	1647+67.85	25.0
Lt.	1646+86.00		Lt.	1647+01.14	25.0
Lt.	1647+31.20		Lt.	1647+56.20	25.0
TOTAL:					100.0

63000030 STRONG POST GUARDRAIL ATTACHED TO STRUCTURE

OFF SET	STATION	TO	STATION	FOOT
Rt.	1647+12.79		1647+42.85	30
Lt.	1647+01.14		1647+31.21	30
TOTAL:				60.0

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

OFF SET	STATION	TO	STATION	EACH
Rt.	1645+31.12		1645+75.79	1.0
Rt.	1647+93.61		1648+43.62	1.0
Lt.	1645+91.33		1646+41.33	1.0
Lt.	1648+53.83		1649+03.83	1.0
TOTAL:				4.0

63200310 GUARDRAIL REMOVAL

OFF SET	STATION	TO	OFF SET	STATION	FOOT
16.87' Rt.	1646+08.57		16.0' Rt.	1646+98.47	89.90
17.55' Lt.	1646+08.92		16.0' Lt.	1646+98.42	89.50
16.0' Rt.	1647+24.87		18.25' Lt.	1648+14.48	89.61
16.0' Lt.	1647+24.34		17.80' Rt.	1648+14.75	90.41
TOTAL:					359.42
USE:					360.0

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

OFF SET	STATION	EACH
30.0' Lt.	1644+50.00	1.0
45.0' Lt.	1644+50.00	1.0
45.0' Lt.	1650+00.00	1.0
30.0' Lt.	1650+00.00	1.0
30.0' Rt.	1644+50.00	1.0
45.0' Rt.	1644+50.00	1.0
45.0' Rt.	1650+00.00	1.0
30.0' Rt.	1650+00.00	1.0
TOTAL:		8.0

78001110 PAINT PAVEMENT MARKING-LINE 4"

EDGE LINE	STATION	OFF SET	TO	STATION	OFF SET	FOOT
	1644+50.00	Rt.		1650+00.00	Rt.	550.0
	1644+50.00	Lt.		1650+00.00	Lt.	550.0
SKIP DASH	1644+50.00	CL		1650+50.00	CL	137.5
TOTAL:						1237.5
USE:						1238.0

78200005 GUARDRAIL REFLECTORS, TYPE A

STATION	OFF SET	TO	STATION	OFF SET	EACH
1645+31.11	Rt.		1648+43.62	Rt.	7.0
1645+91.33	Lt.		1649+03.84	Lt.	7.0
TOTAL:					14.0

72501000 TERMINAL MARKER DIRECT APPLIED

STATION	OFF SET	EACH
1645+31.11	Rt.	1.0
1645+91.33	Lt.	1.0
1648+43.62	Rt.	1.0
1649+03.84	Lt.	1.0
TOTAL:		4.0

Z0038700 PERMANANT BENCH MARKS

STATION	OFF SET	EACH
1647+13.88	Lt. 22.25'	1.0
TOTAL:		1.0

EARTHWORK TABLE

LOCATION	20200100 EARTH EXCAVATION (CUT)	SHRINKAGE 25%	EMBANKMENT (FILL)	20400800 FURNISHED EXCAVATION (FILL)
RT. 1644+50.00 TO RT. 1647+25.00	79.00	59.25	90.00	-30.75
RT. 1647+25.00 TO RT. 1650+00.00	91.10	68.33	157.00	-88.67
LT. 1644+50.00 TO LT. 1647+25.00	79.90	59.92	79.00	-19.08
LT. 1647+25.00 TO LT. 1650+00.00	19.90	14.93	91.10	-76.17
TOTAL CU. YDS.=		269.9	TOTAL CU. YDS.=	
USE:		270.0	USE:	
			215.0	

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT10\10\Organization-Civil\DOT_Standards\Ce\IDOT_Sheets.cel

USER NAME	= Eric.Thomas	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/7/2022	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

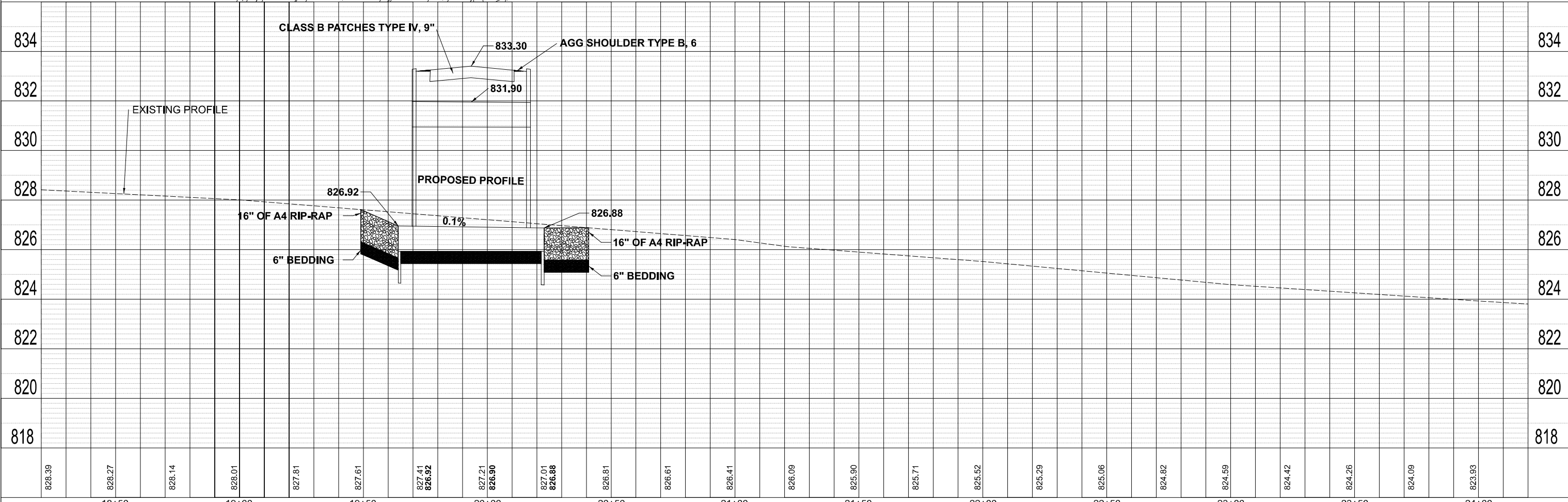
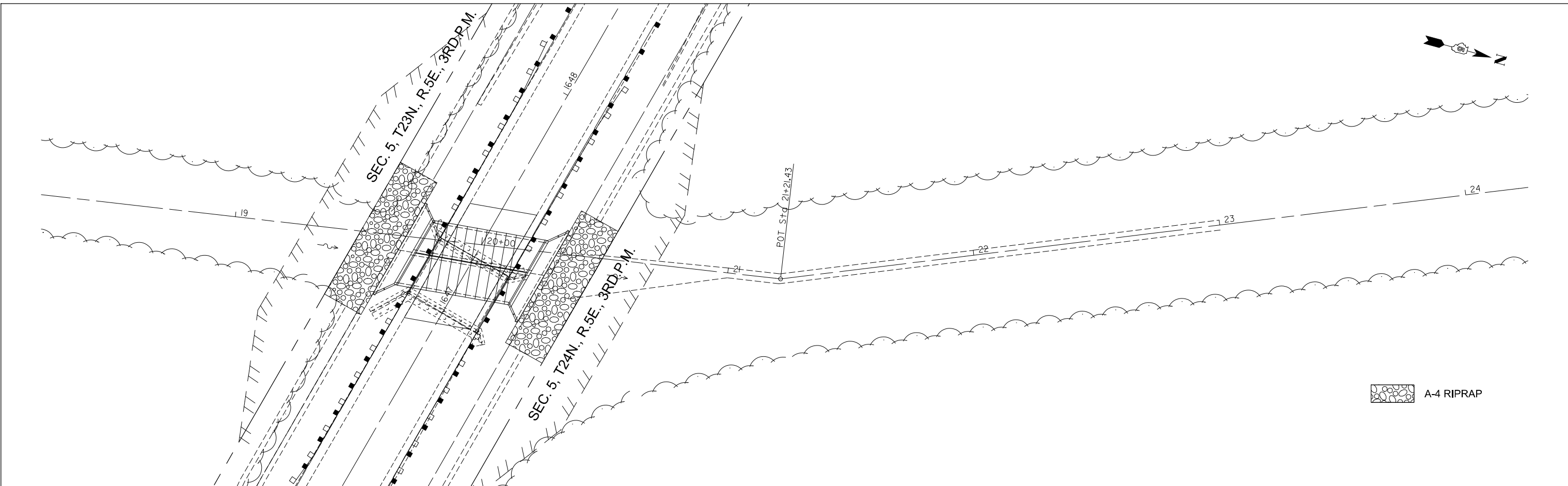
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	9
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		

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

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USER NAME = Biddette, Pierson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 11/24/2025	CHECKED -	REVISED -
	DATE -	REVISED -

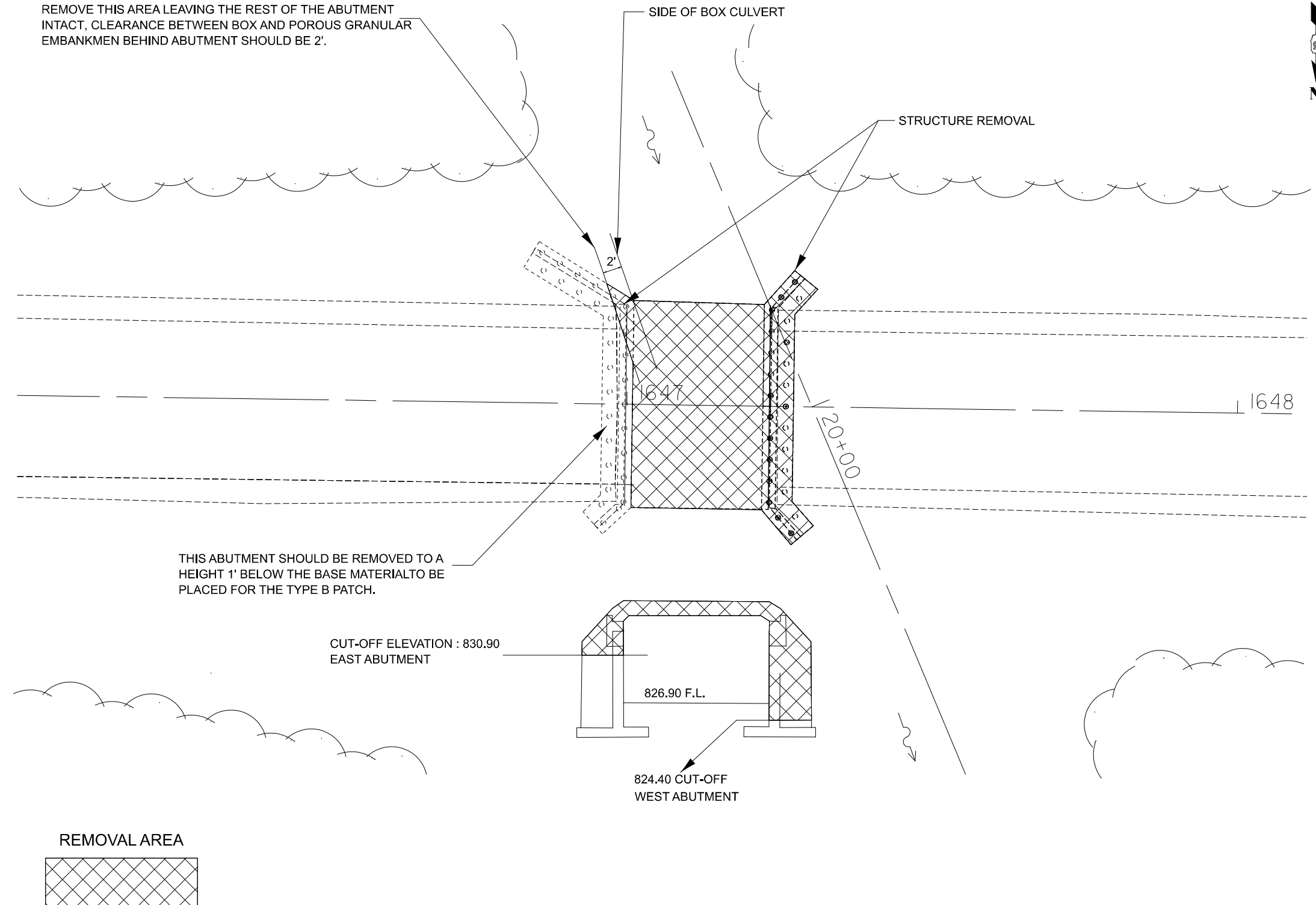
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN PROFILE SHEET
ALONG STREAM
SCALE: 1" = 20'
SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 13
CONTRACT NO. 70574			ILLINOIS FED. AID PROJECT	

STRUCTURE REMOVAL DETAIL

SEC. 5, T23N., R.5E., 3RD.P.M.



SEC. 5, T24N., R.5E., 3RD.P.M.

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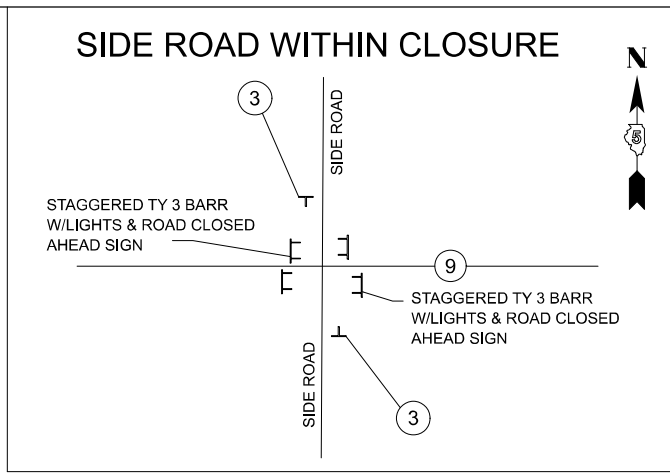
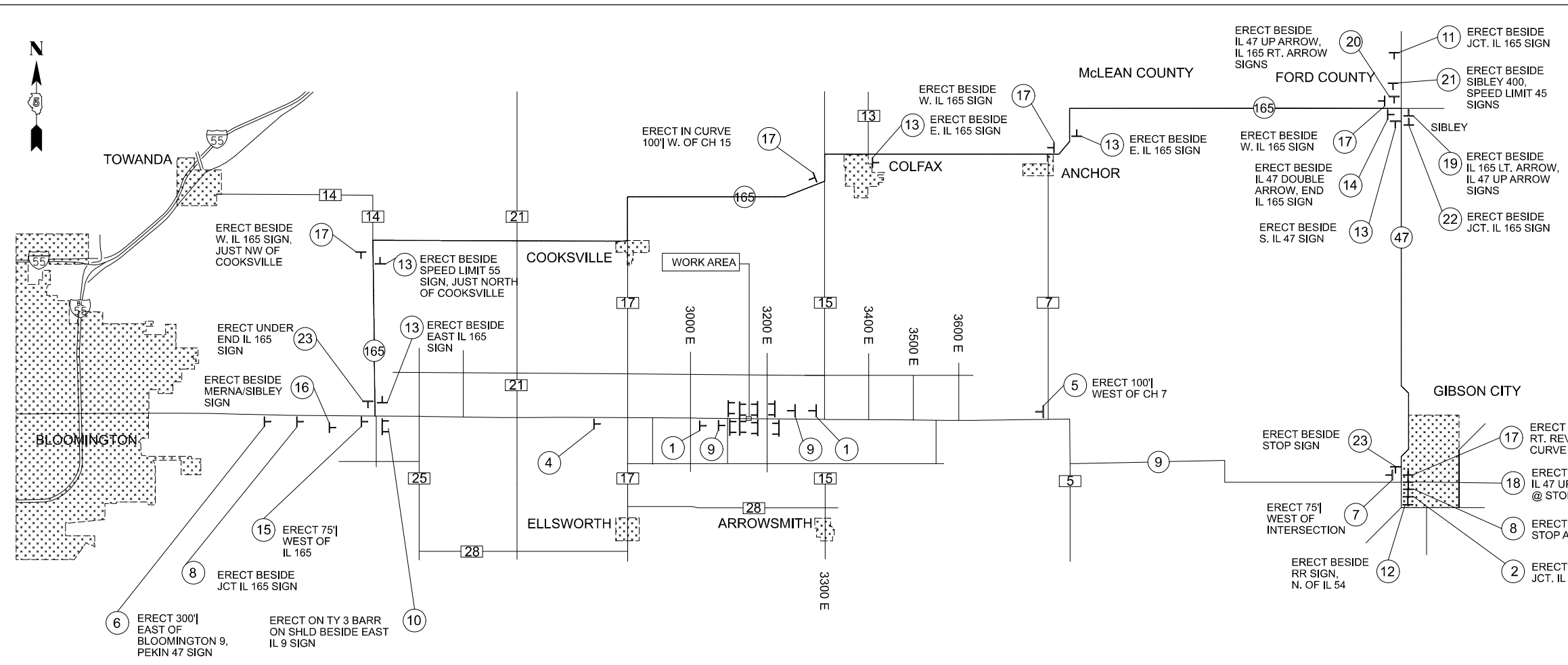
USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE REMOVAL DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCCLEAN	50	14
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				



W20-3(0)-48
POST MOUNTED
W/LIGHT
SIGN PANEL 1



W20-3(0)-48
M5-1R
POST MOUNTED
SIGN PANEL 2



W20-3(0)-48
M5-1R
POST MOUNTED
SIGN PANEL 3



W20-3(0)-48
W16-3A(0)
POST MOUNTED
SIGN PANEL 4



W20-3(0)-48
W16-3A(0)
POST MOUNTED
SIGN PANEL 5



W20-3(0)-48
W16-3A(0)
POST MOUNTED
SIGN PANEL 6



W20-3(0)-48
W16-3A(0)
POST MOUNTED
SIGN PANEL 7



W20-2(0)-48
POST MOUNTED
SIGN PANEL 8



W21-1100(0)-48
POST MOUNTED
W/LIGHT
SIGN PANEL 9

ROAD CLOSED
10 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3A 6030(0)
MOUNTED TO NCHRP-350
APPROVED DEVICE &
TYPE III BARRICADE
SIGN PANEL 10

IL 9
CLOSED
14 MILES WEST
OF GIBSON CITY

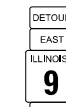
R11-3A 6030(0)
MOUNTED TO NCHRP-350
APPROVED DEVICE &
TYPE III BARRICADE
SIGN PANEL 11

IL 9
CLOSED
14 MILES WEST
FOLLOW DETOUR

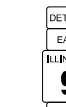
R11-3A 6030(0)
MOUNTED TO NCHRP-350
APPROVED DEVICE &
TYPE III BARRICADE
SIGN PANEL 12



M4-8
M3-2
M3-2
M1-5
M1-5
POST MOUNTED
SIGN PANEL 13



M4-8
M3-2
M1-5
M6-1
POST MOUNTED
SIGN PANEL 14



M4-8
M3-2
M1-5
M6-1
POST MOUNTED
SIGN PANEL 15



M4-8
M3-2
M1-5
M5-1L
POST MOUNTED
SIGN PANEL 16



M4-8
M3-4
M1-5
M3-4
POST MOUNTED
SIGN PANEL 17



M4-8
M3-4
M1-5
M6-3
POST MOUNTED
SIGN PANEL 18



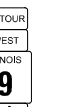
M4-8
M3-4
M1-5
M6-1
POST MOUNTED
SIGN PANEL 19



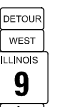
M4-8
M3-4
M1-5
M6-1
POST MOUNTED
SIGN PANEL 20



M4-8
M3-4
M1-5
M6-1
POST MOUNTED
SIGN PANEL 21



M4-8
M3-4
M1-5
M5-1R
POST MOUNTED
SIGN PANEL 22



M4-8
M3-4
M1-5
M5-1L
POST MOUNTED
SIGN PANEL 23

END
DETOUR

M4-8E
POST MOUNTED
SIGN PANEL 23

NOTES:

- IL 9 SHALL NOT BE CLOSED UNTIL ALL DETOUR SIGNING IS ERECTED AND APPROVED BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR. COSTS FOR COVERING EXISTING SIGNS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE DETOUR SIGNING SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS PER ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
- ALL TYPE III BARRICADES SHALL BE IN ACCORDANCE WITH STD 701901 AND SHALL BE EQUIPPED WITH TWO (2) APPROPRIATE R11-2 AND R11-3 SIGNS AND FLASHING AMBER LIGHTS.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE SIGNING OF THE ROAD CLOSURE AS SHOWN ON THIS SHEET. PRIOR TO CLOSING THE ROAD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROAD CLOSURE WITH THE DISTRICT BUREAU OF OPERATIONS.
- TRAFFIC CONTROL SHOWN WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- SEE DISTRICT DETAIL 70200000 - TRAFFIC CONTROL & PROTECTION (ROAD & SIDEROAD/STREET CLOSURES) FOR ADDITIONAL INFORMATION.

MODEL - SHT_PLAN
FILE NAME: C:\Bentley\CONNECT101\Organization\Civil\DOT_Standards\Civil\DOT_Sheets.dwg

USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

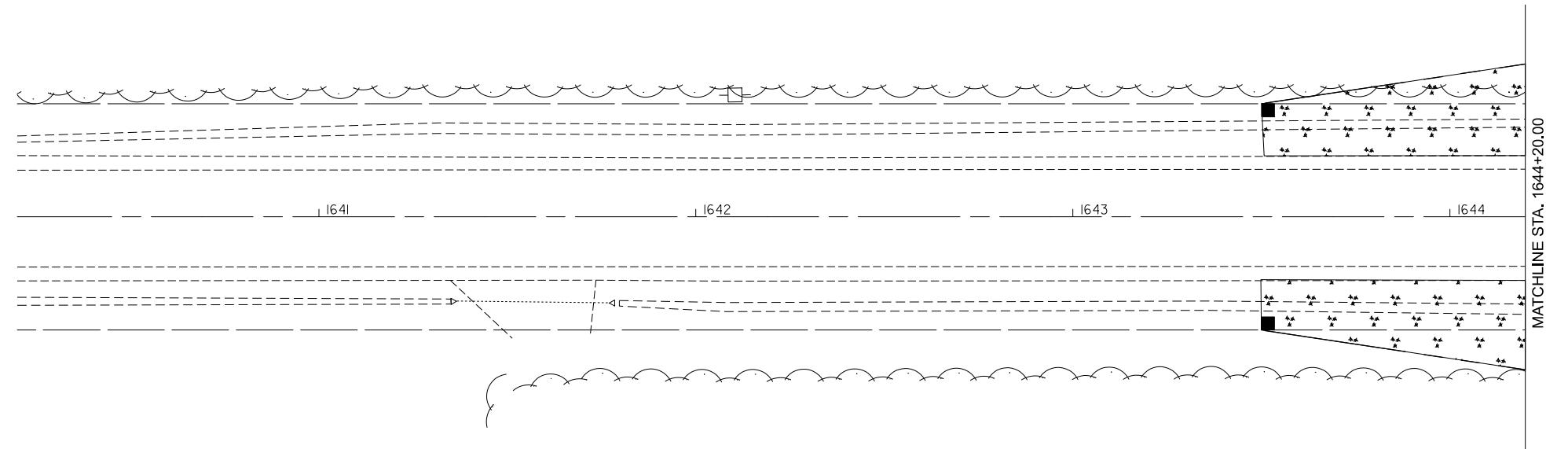
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	15
CONTRACT NO. 70574				
		ILLINOIS	FED. AID PROJECT	

SEEDING AND EROSION CONTROL PLAN



MODEL: SHT_PLAN
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USER NAME =	DESIGNED -	REVISED -
	DRAWN - BBP	REVISED -
	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SEEDING AND EROSION
CONTROL PLAN**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	16
CONTRACT NO. 70574				
		ILLINOIS	FED. AID PROJECT	

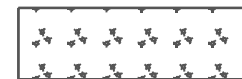
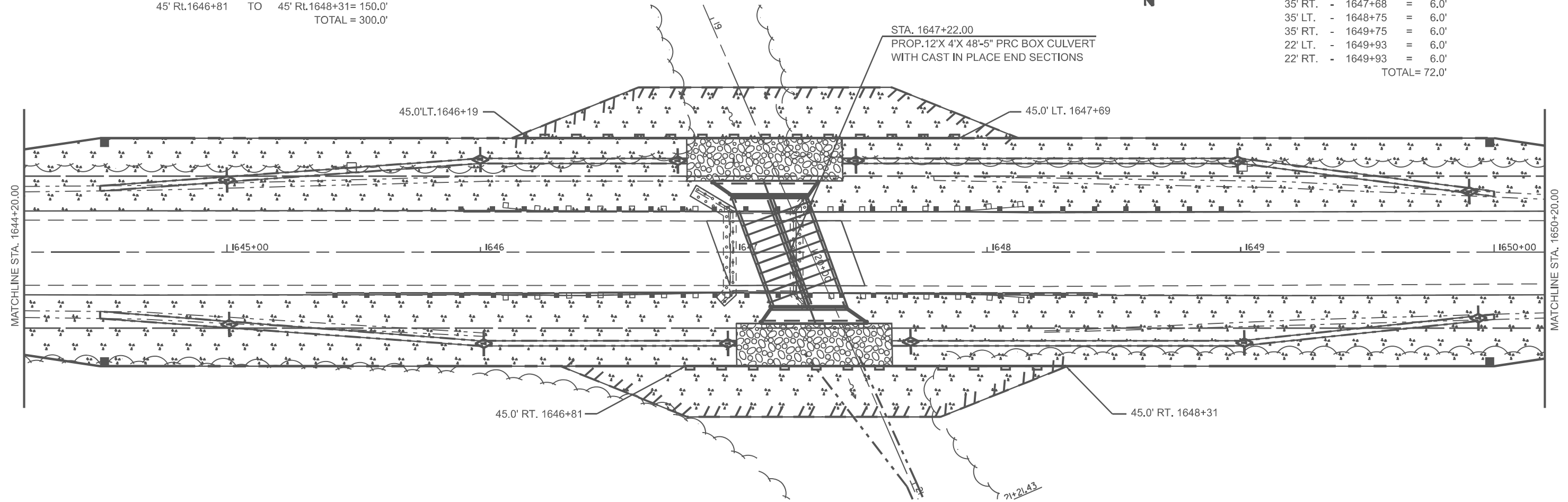
SEEDING AND EROSION CONTROL PLAN

PERIMETER EROSION CONTROL BARRIER

STATION	TO	STATION	
45' Lt.1646+19	TO	45' Lt.1647+69	= 150.0'
45' Rt.1646+81	TO	45' Rt.1648+31	= 150.0'
			TOTAL = 300.0'

TEMPORARY DITCH CHECKS

28' LT.	-	1645+00	=	6.0'
28' RT.	-	1645+00	=	6.0'
35' LT.	-	1646+00	=	6.0'
35' RT.	-	1646+00	=	6.0'
35' LT.	-	1646+79	=	6.0'
35' RT.	-	1646+97	=	6.0'
35' LT.	-	1647+51	=	6.0'
35' RT.	-	1647+68	=	6.0'
35' LT.	-	1648+75	=	6.0'
35' RT.	-	1649+75	=	6.0'
22' LT.	-	1649+93	=	6.0'
22' RT.	-	1649+93	=	6.0'
				TOTAL= 72.0'



MULCH METHOD 2



STONE RIPRAP CLASS A4



PERIMETER EROSION CONTROL BARRIER

AREAS FOR SEEDING BY ACRE

STATION	TO	STATION	
RT. 1643+50		RT. 1651+00	= 0.28 ACRES
LT. 1643+50		LT. 1651+00	= 0.28 ACRES
			TOTAL: 0.56 ACRES
			USE: 0.80 ACRES

CLASS 2 A SEEDING SHALL BE USED FOR LONG TERM SEEDING.

CLASS 7 SEEDING WILL BE USED AS TEMPORARY COVER SEEDING UNTIL PERMANENT SEEDING CAN BE SPREAD.

MULCH METHOD 2 AREAS ARE THE SAME SIZE AS THE SEEDING AREAS.

ALL AREAS CALCULATED WITH CADD.

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT101\Organization\Civil\DOT_Standards\Civil\DOT_Sheets.cad

USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN - BBP	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

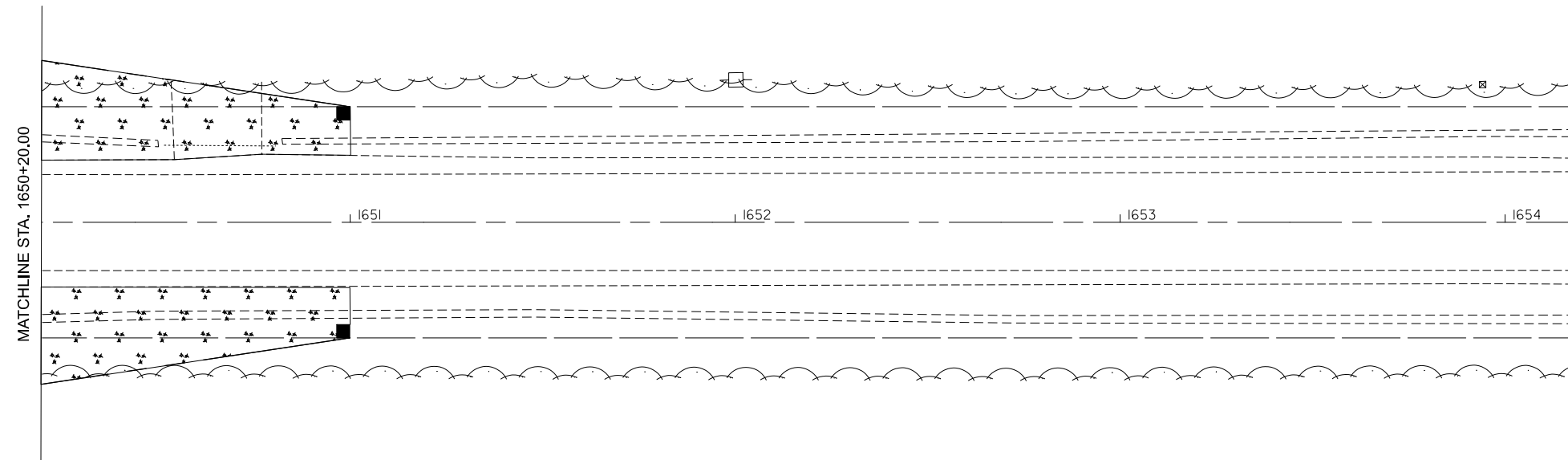
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SEEDING AND EROSION
CONTROL PLAN**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	17
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

SEEDING AND EROSION CONTROL PLAN



MODEL: SHT_PLAN
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USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN - BBP	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SEEDING AND EROSION
CONTROL PLAN**

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

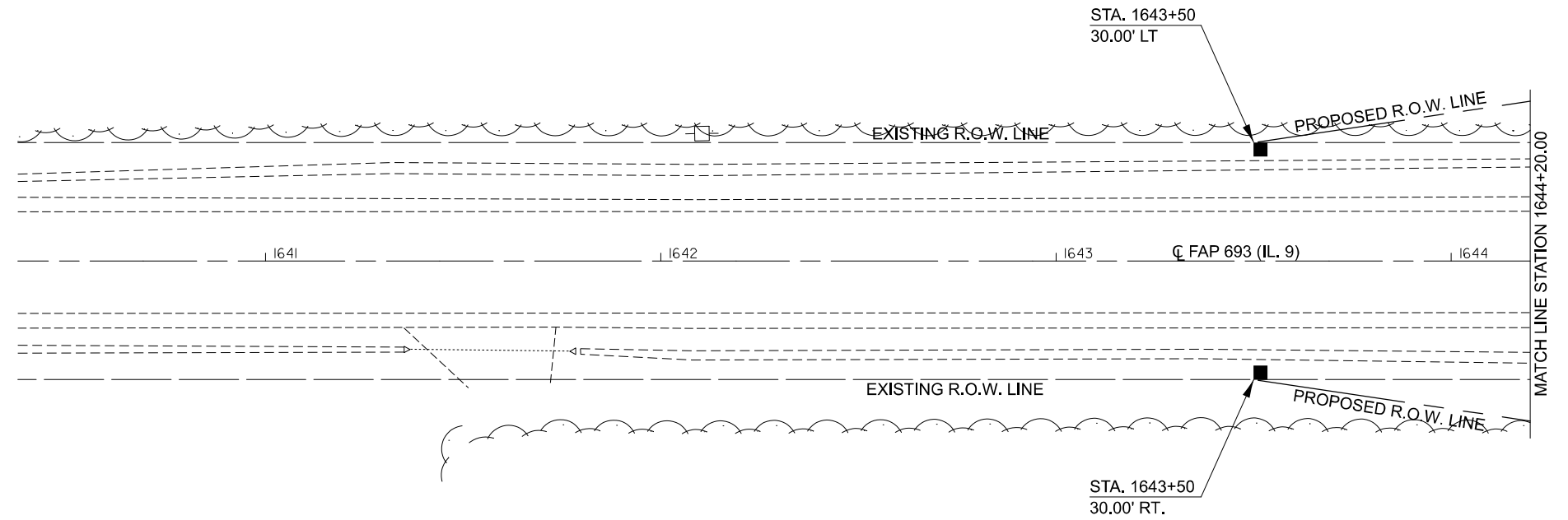
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	18
CONTRACT NO. 70574				
		ILLINOIS	FED. AID PROJECT	

RIGHT OF WAY PLAN

SEC. 5, T23N., R.5E., 3RD.P.M.



*Morefield, Floyd & Carol
Parcel No. 24-05-200-001*



*DRM Family Farms, Inc.
Parcel No. 17-32-300-002*

■ R.O.W. MONUMENT TO BE SET

SEC. 5, T24N., R.5E., 3RD.P.M.

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT\1011\Organization\Chil\DOT_Standards\Civil\DOT_Sheets.dwg

USER NAME =	DESIGNED -	REVISED -
	DRAWN - BBP	REVISED -
	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLAN

SCALE: 1" = 20'

SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCCLEAN	50	19
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

RIGHT OF WAY PLAN

SEC. 5, T23N., R.5E., 3RD.P.M.

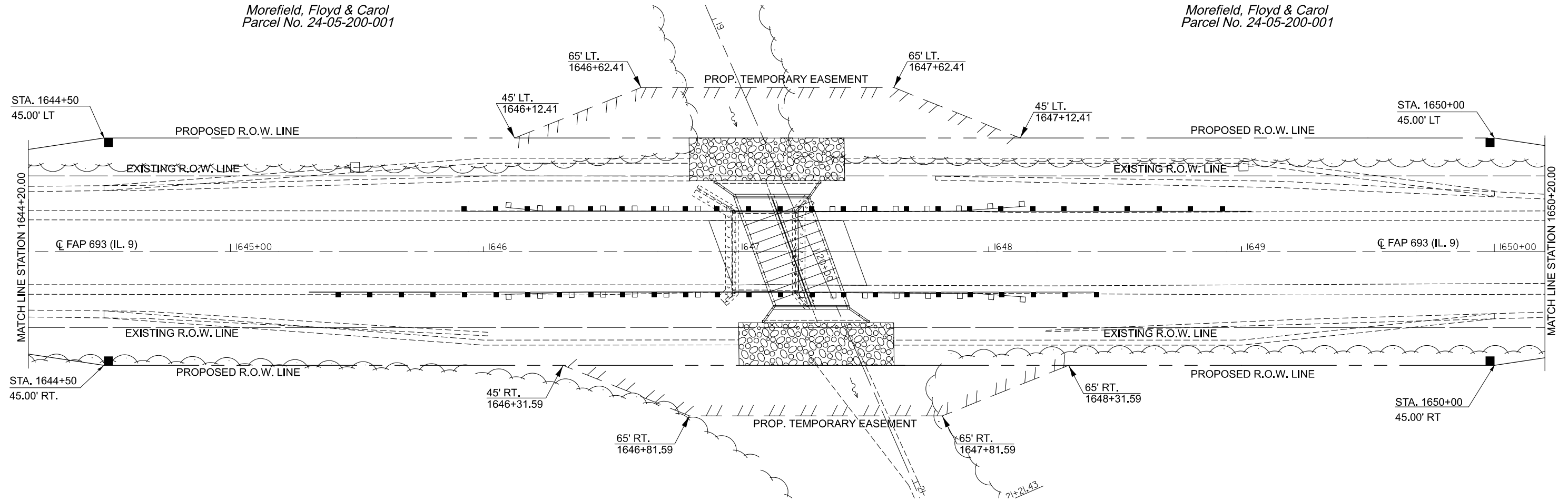


66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

OFF SET	STATION	EACH
30.0' LT.	1644+50.00	1.0
45.0' LT.	1644+50.00	1.0
45.0' LT.	1650+00.00	1.0
30.0' LT.	1650+00.00	1.0
30.0' RT.	1644+50.00	1.0
45.0' RT.	1644+50.00	1.0
45.0' RT.	1650+00.00	1.0
30.0' RT.	1650+00.00	1.0
TOTAL:		8.0

Morefield, Floyd & Carol
Parcel No. 24-05-200-001

Morefield, Floyd & Carol
Parcel No. 24-05-200-001



DRM Family Farms, Inc.
Parcel No. 17-32-300-002

SEC. 5, T24N., R.5E., 3RD.P.M.

■ R.O.W. MONUMENT TO BE SET

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT\10110\organizational\civil\DOT_Standards\Civil\DOT_Sheets.dwg

USER NAME =	DESIGNED -	REVISED -
	DRAWN - BBP	REVISED -
	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

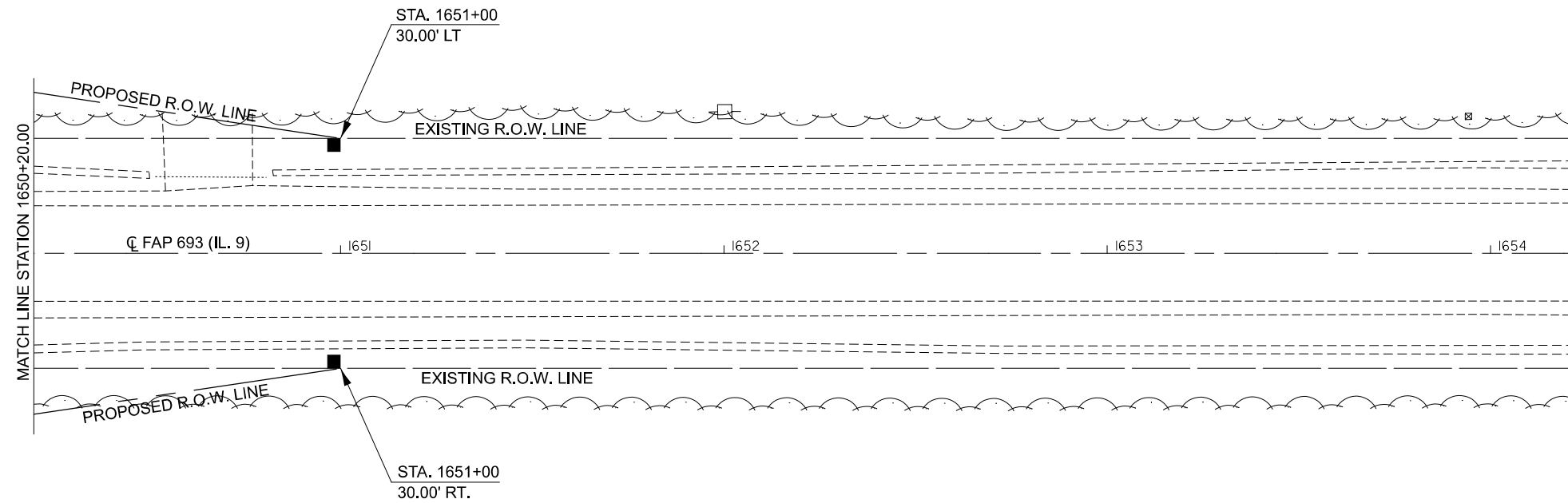
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCCLEAN	50	20
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

RIGHT OF WAY PLAN

SEC. 5, T23N., R.5E., 3RD.P.M.



Morefield, Floyd & Carol
Parcel No. 24-05-200-001



DRM Family Farms, Inc.
Parcel No. 17-32-300-002

SEC. 5, T24N., R.5E., 3RD.P.M.

■ R.O.W. MONUMENT TO BE SET

MODEL: SHT_PLAN
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USER NAME =	DESIGNED -	REVISED -
	DRAWN - BBP	REVISED -
	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCCLEAN	50	21
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

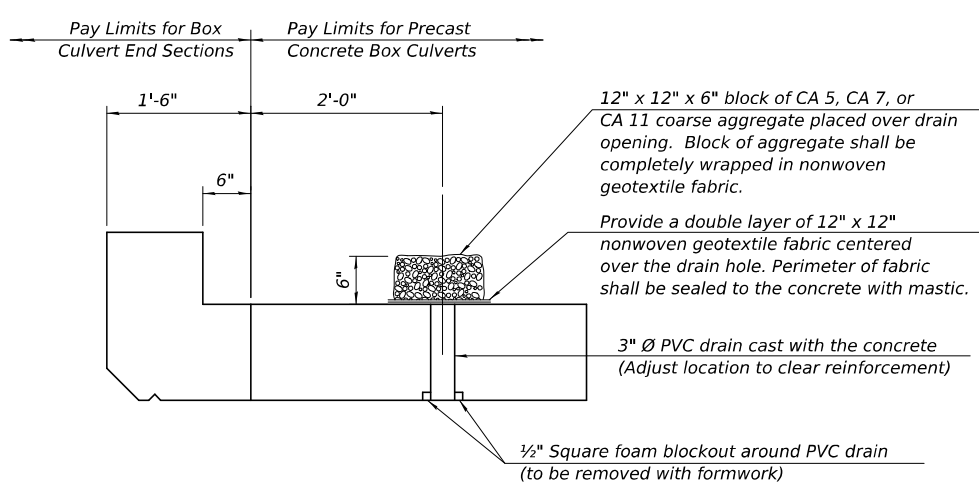
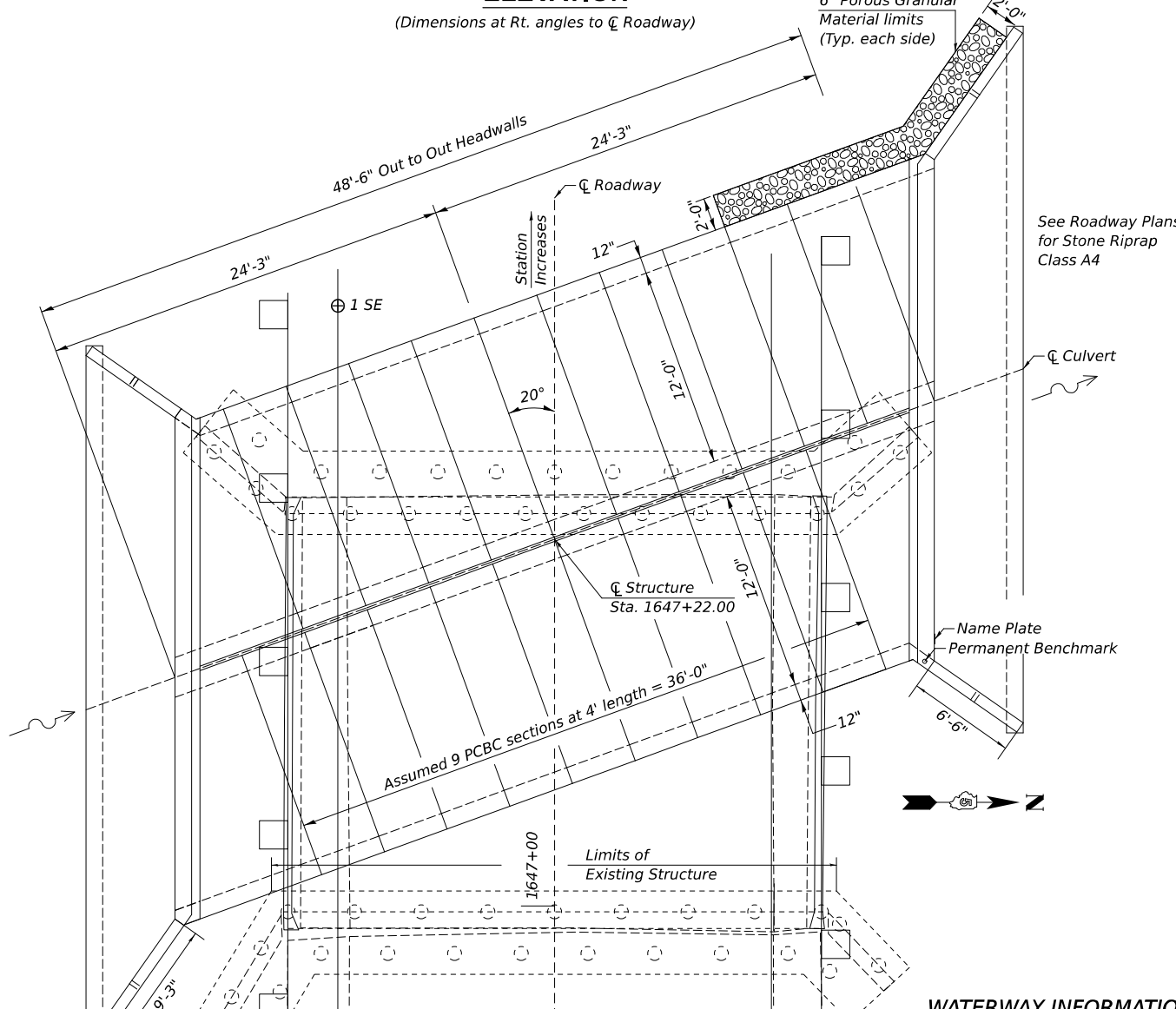
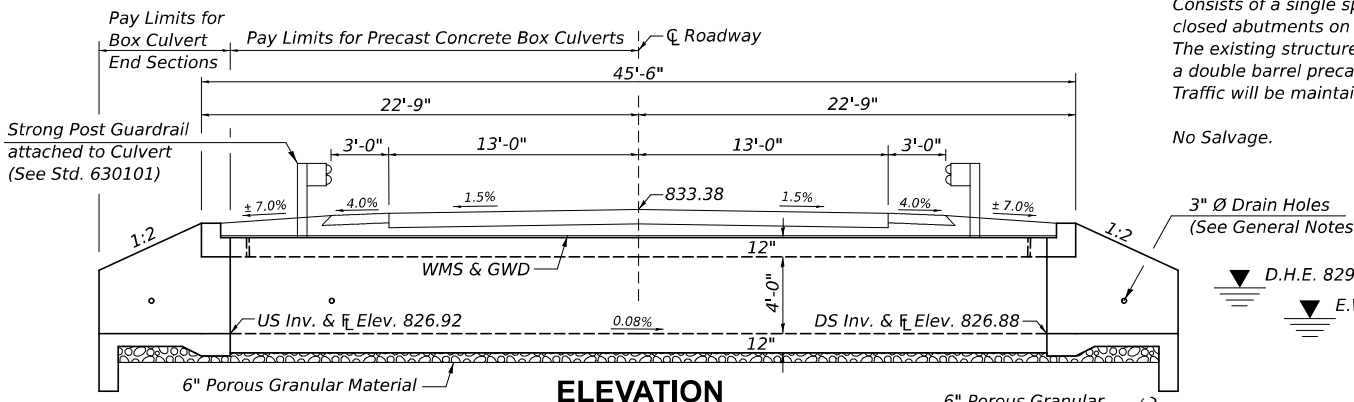
Benchmark: Chiseled square on top of curb in center of north side of S.N. 057-0077; Sta. 1647+12.03; Rt. 15.83 ft.; Elev. 834.04.

Existing Structure: S.N. 057-0077 was built in 1925 and superstructure replaced in 1979 as SBI Rte. 9, Section 21BR-1 at Sta. 1647+16. Consists of a single span reinforced concrete slab supported by closed abutments on spread footing with timber piles. The existing structure is to be removed and replaced with a double barrel precast concrete box culvert. Traffic will be maintained with road closure.

No Salvage.

GENERAL NOTES

The design fill height for this box is 1.3 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification. Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard. Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required. Excavation behind the abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The removal of existing approach slabs (if any) are included in the cost of Removal of Existing Structures.



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

DESIGN SPECIFICATIONS

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

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS

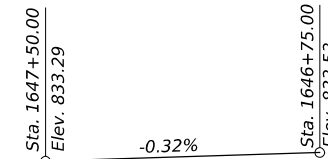
$f_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

FIELD UNITS

$f_c = 3,500$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

INDEX OF SHEETS

1. General Plan and Elevation
- 2.-3. Multi-cell Precast Concrete Box Culvert Apron End Section Details
4. Porous Granular Embankment



PROFILE GRADE

Along C.L. Rte. 9

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts 12' x 4'	Foot	72
Porous Granular Embankment	Cu. Yd.	163
Stone Riprap, Class A1	Ton	110
Geocomposite Wall Drain	Sq. Yd.	156
Membrane Waterproofing System for Buried Structures	Sq. Yd.	156

WATERWAY INFORMATION

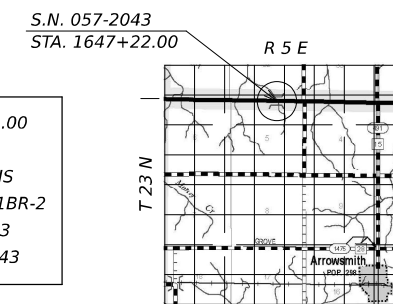
Drainage Area = 0.3 sq. mi. Low Grade Elev. = 833.1 @ Sta. 1648+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	210	38	50	829.0	0.6	0.1	829.6	829.1	
Design	50	364	46	57	829.3	1.2	0.5	830.5	829.8
Base	100	437	48	60	829.4	1.5	0.8	830.9	830.2
Overtopping									
Max. Calc.	500	620	55	67	829.7	2.0	1.4	831.7	831.1

10-year velocity existing bridge = 8.1 ft/s 10-year velocity proposed culvert = 5.5 ft/s

STATION 1647+22.00
BUILT 20-- BY
STATE OF ILLINOIS
F.A.P. RTE. 9 SEC. 21BR-2
LOADING HL-93
STR. NO. 057-2043

NAME PLATE
See Std. 515001



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
IL RTE. 9 OVER STREAM
F.A.P. ROUTE 693 - SEC. 21BR-2
MCLEAN COUNTY
STATION 1647+22.00
S.N. 057-2043**

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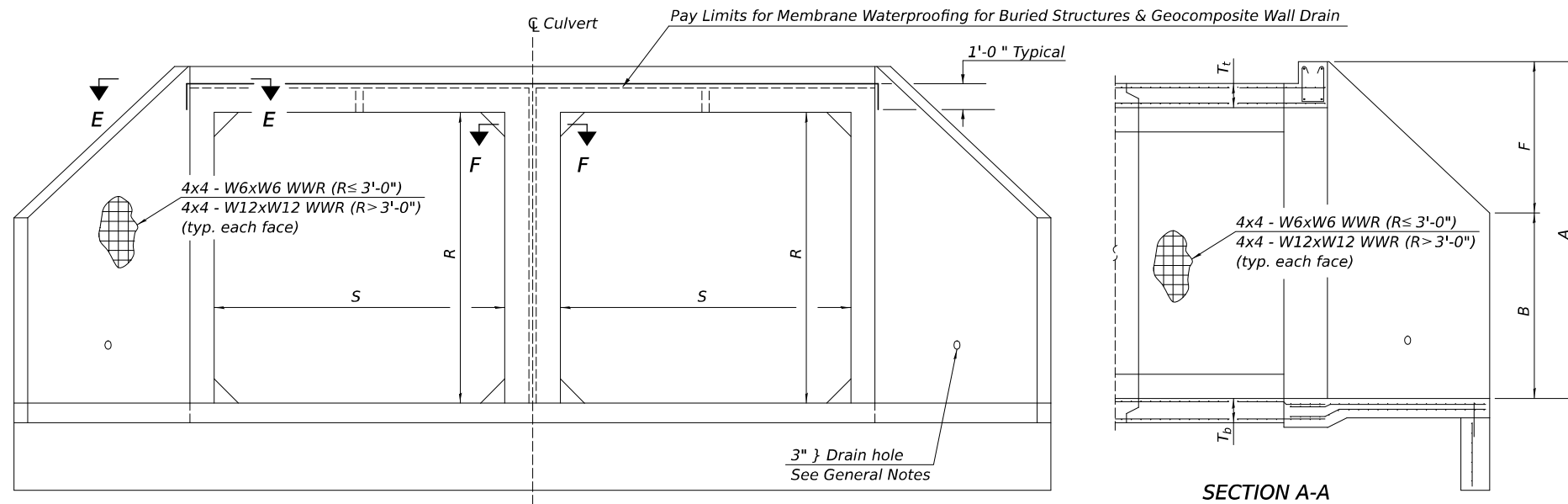
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	DRAWN -	REVISD -
	CHECKED -	REVISD -
PLOT DATE = 7/29/2025	DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
S.N. 057-2043**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	22
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

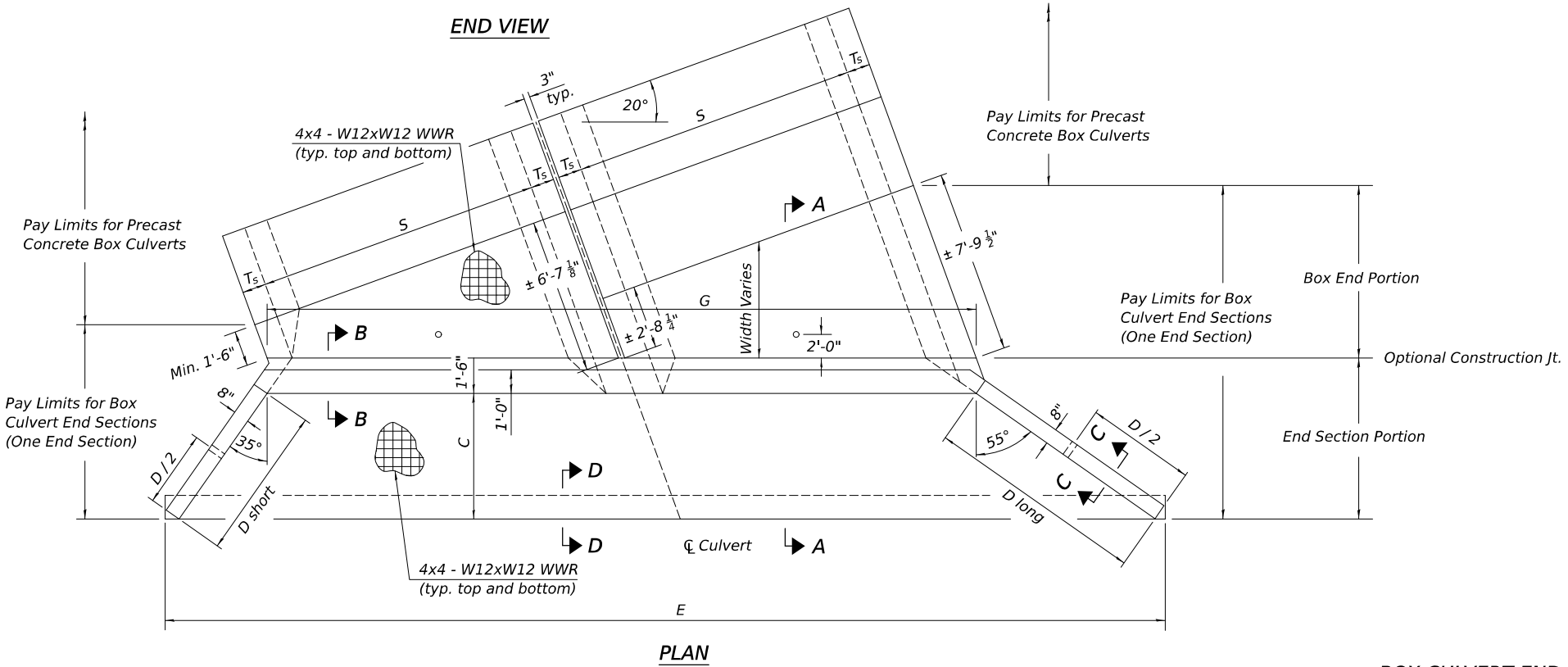
The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the concrete box culverts and box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



BOX CULVERT END SECTIONS (One End Section) - Includes End Section and Box End Portions

DIMENSIONS AND QUANTITIES														BILL OF MATERIAL		
DESIGN: DOUBLE CELL 4FT RISE PRECAST CONCRETE BOX CULVERT WITH 1:2 FORESLOPE; 20° SKEW														For Information Only (One End Section)		
WELDED WIRE REINFORCEMENT END SECTIONS MAY BE FURNISHED PRECAST OR BUILT IN THE FIELD USING CIP CONSTRUCTION METHODS														CONCRETE	WELDED WIRE	REINFORCEMENT
DIMENSIONS														BOX CULVERTS	REINFORCEMENT	BARS
(S) SPAN	(R) RISE	(Tt) TOP	(Tb) BOTDOM	(Ts) WALL	WINGWALL	A	B	C	D long	D short	E	F	G	(Cu. Yd.)	(Sq. Ft.)	(Pound)
(ft)	(ft)	(inches)	(inches)	(inches)	SLOPE											
12	4	12	12	12	1:2	5'-9"	3'-4"	5'-4"	9'-3"	6'-6"	42'-4"	2'-5"	30'-1"	15.8	1017	540

REINFORCEMENT BARS						
For Information Only (One End Section)						
Bar	No.	Size	Length	Shape	Weight/Ft	Pounds
h	4	#8	30'-1"	straight	2.67	321
s	31	#4	4'-4"	u-shaped	0.668	90
s1	31	#4	4'-3"	u-shaped	0.668	88
v	29	#4	2'-0"	straight	0.668	39
Total						538
Use (Nearest 10 pounds)						540

BILL OF MATERIAL	
For Information Only	
(Box End Portion)	
CONCRETE	WELDED WIRE
BOX CULVERTS	REINFORCEMENT
(Cu. Yd.)	(Sq. Ft.)
13.1	897

MCB-AES - MODIFIED

USER NAME = timothy.brandenburg	DESIGNED - TJB 8/20/2015	REVISED - TJB 3/31/2025
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/29/2025	DATE -	REVISED -

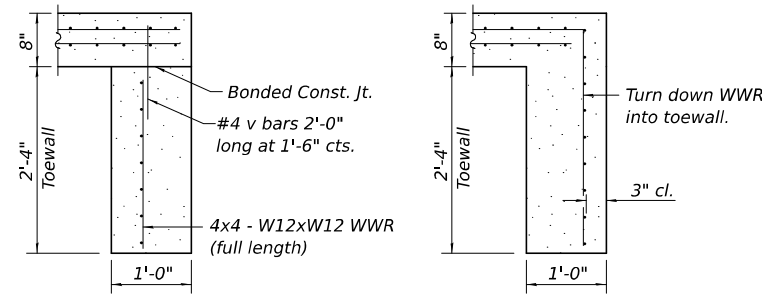
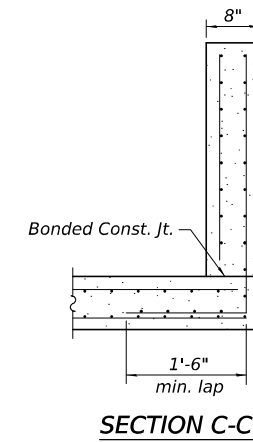
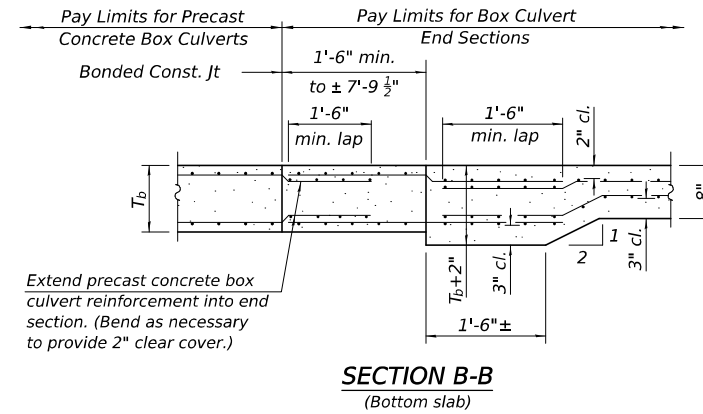
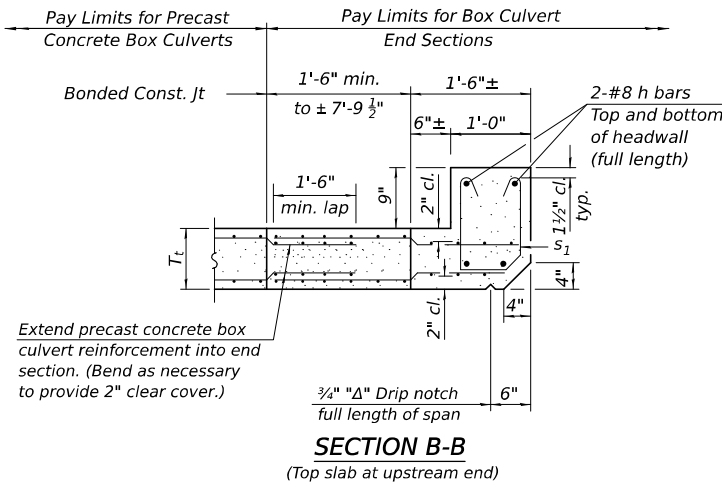
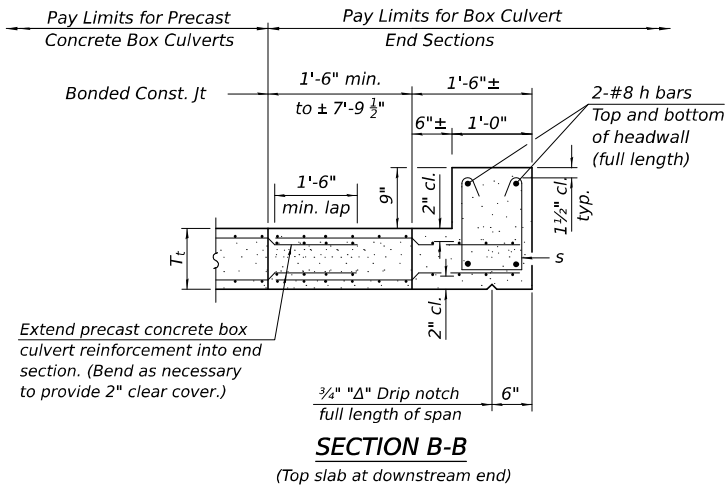
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKEWED MULTI-CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS - S.N. 057-2043

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	23
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

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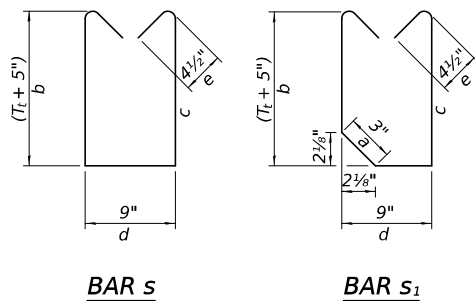
SECTION D-D

ALT. SECTION D-D

TOEWALL CONSTRUCTION SEQUENCE

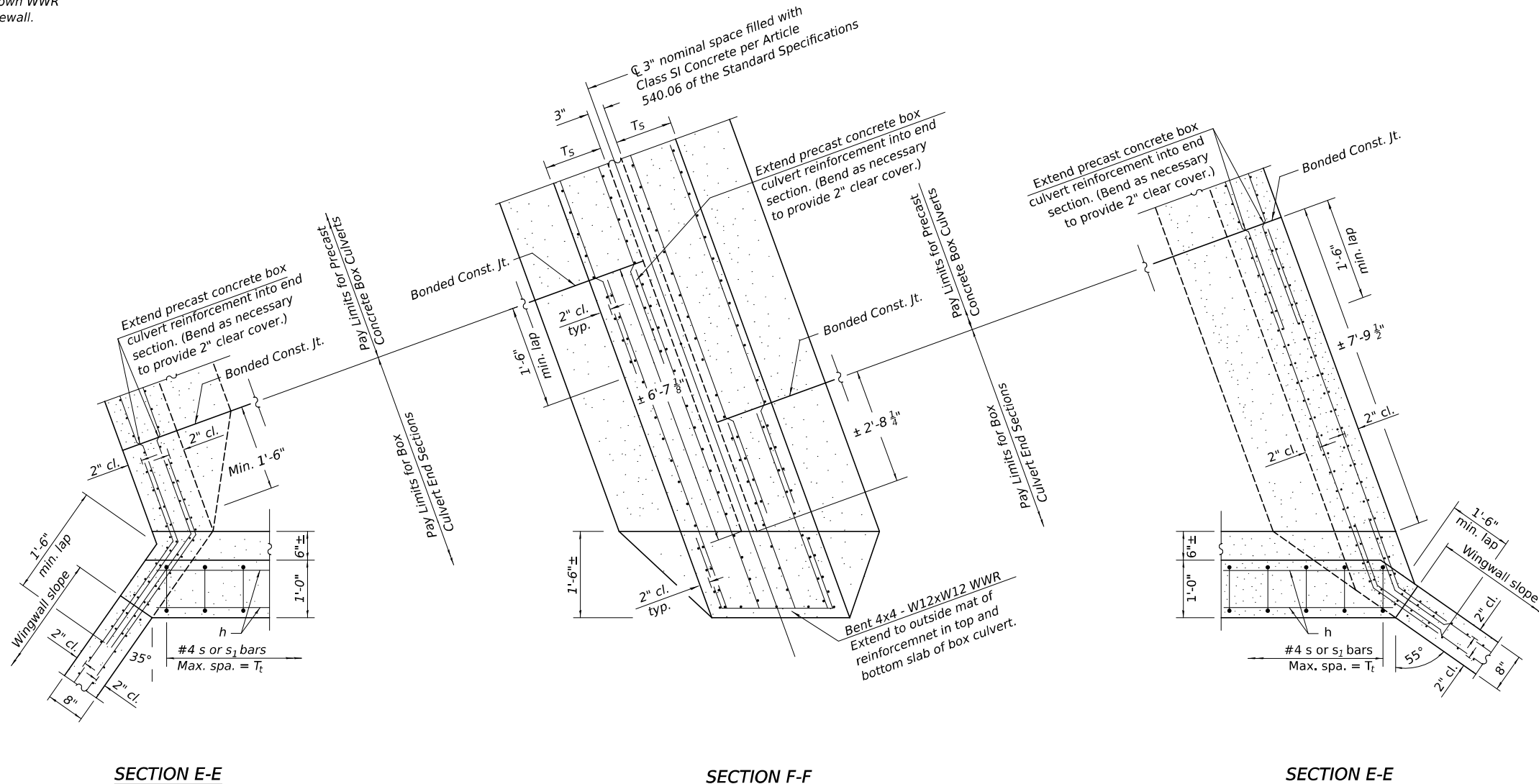
1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:
If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



BAR S

BAR S1



SECTION E-E

SECTION F-F

SECTION E-E

MCB-AES - MODIFIED

USER NAME = timothy.brandenburg	DESIGNED - TJB 8/20/2015	REVISED - TJB 3/31/2025
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/29/2025	DATE -	REVISED -

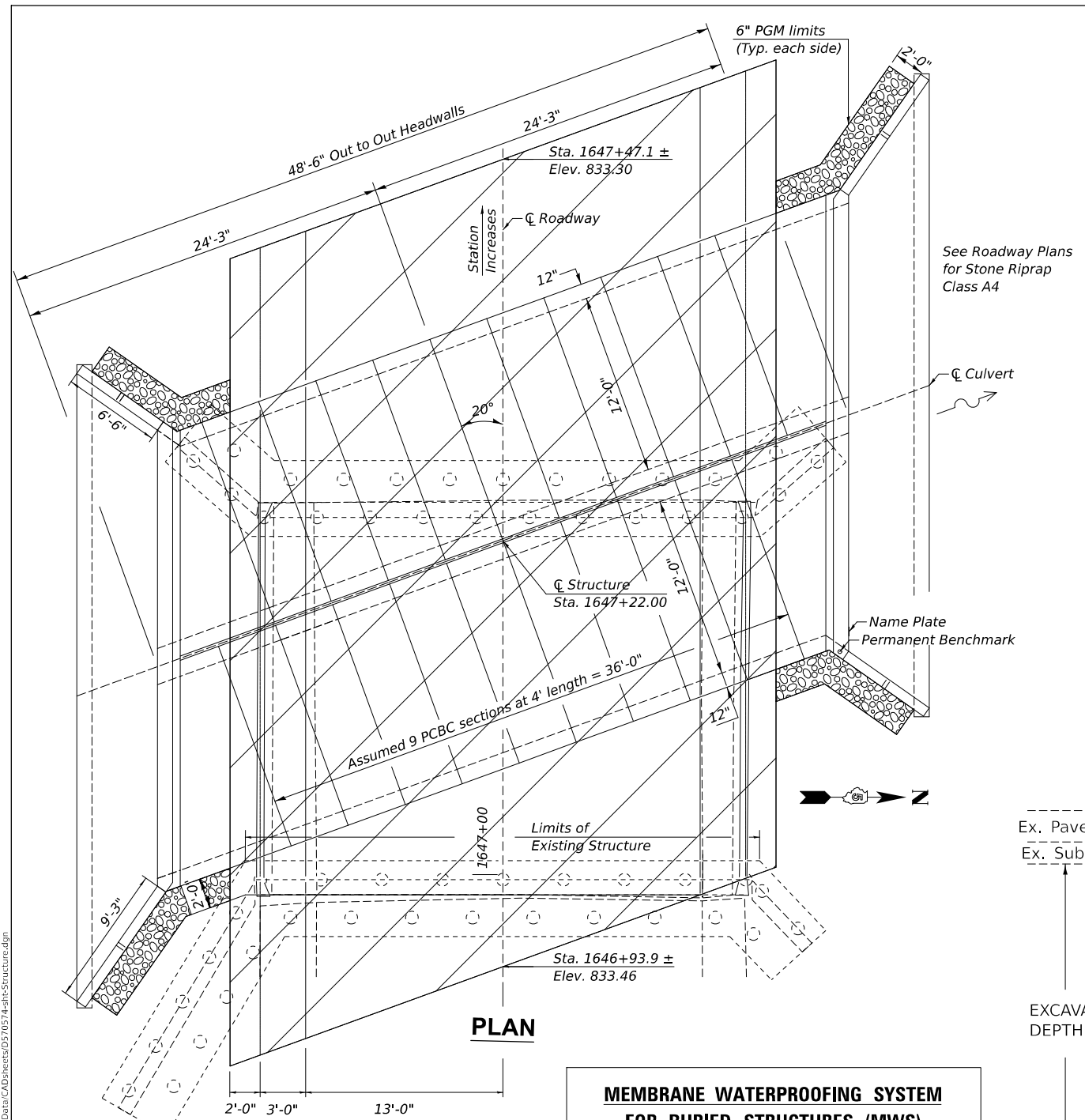
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKewed MULTI-CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS S.N. 057-2043

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCCLEAN	50	24
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

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PLAN

MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES (MWS)
SEE SPECIAL PROVISIONS

GEOCOMPOSITE WALL DRAIN (GWD)
PER SECTION 591, EXCEPT CONCRETE NAILS NOT USED WHERE MWS & GWD OVERLAP

FILL HEIGHTS ≤ 3': MWS & GWD REQ.
FILL HEIGHTS > 3': MWS & GWD NOT REQ.
SEE ABD 19.2.

- ① POROUS GRANULAR MATERIAL (PGM) (CA-7)
(Cost included with PCBC per Article 540.06)
- ② POROUS GRANULAR EMBANKMENT (PGE) SEE ABD 21.1.
- STONE RIPRAP, CLASS A1
- ④ MIN. 6" COVER UNDER FLEXIBLE PAVEMENT. FILL HEIGHTS ≤ 3' PGE REQ. FILL HEIGHTS > 3' PGE NOT REQ. NO COVER REQUIRED UNDER RIGID PAVEMENT. WHEN RIGID PAVEMENT PLACED ON TOP OF PCBC THE MWS AND GWD ARE NOT REQ. SEE ABD 21.1.

****STONE RIPRAP, CLASS A1 (IF REQUIRED)**

STONE RIPRAP, CLASS A1 SHALL BE USED TO ADDRESS UNSTABLE SOIL CONDITIONS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

THE WORK SHALL BE PERFORMED PER APPLICABLE PORTIONS OF SECTION 281.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1.

THE EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL SHALL NOT BE MEASURED FOR PAYMENT, COST INCLUDED WITH STONE RIPRAP, CLASS A1.

EXCAVATION DEPTHS	* SLOPES
5'-0" < EXCAVATION DEPTH ≤ 8'-0"	3/4' : 1'
8'-0" < EXCAVATION DEPTH ≤ 12'-0"	1' : 1'
12'-0" < EXCAVATION DEPTH ≤ 20'-0"	1' : 1'

MUST BE SLOPED FROM EXCAVATION BOTTOM OR SPECIAL DESIGN BY S.E. SEE ARTICLE 522.07 FOR TEMPORARY SOIL RETENTION SYSTEM

POROUS GRANULAR EMBANKMENT (PGE)

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

THE WORK SHALL BE PERFORMED PER APPLICABLE PORTIONS OF SECTIONS 207 AND 540.

THE COARSE AGGREGATE QUALITY SHALL BE CLASS D OR BETTER AND THE GRADATION SHALL BE CA-6 OR CA-10.

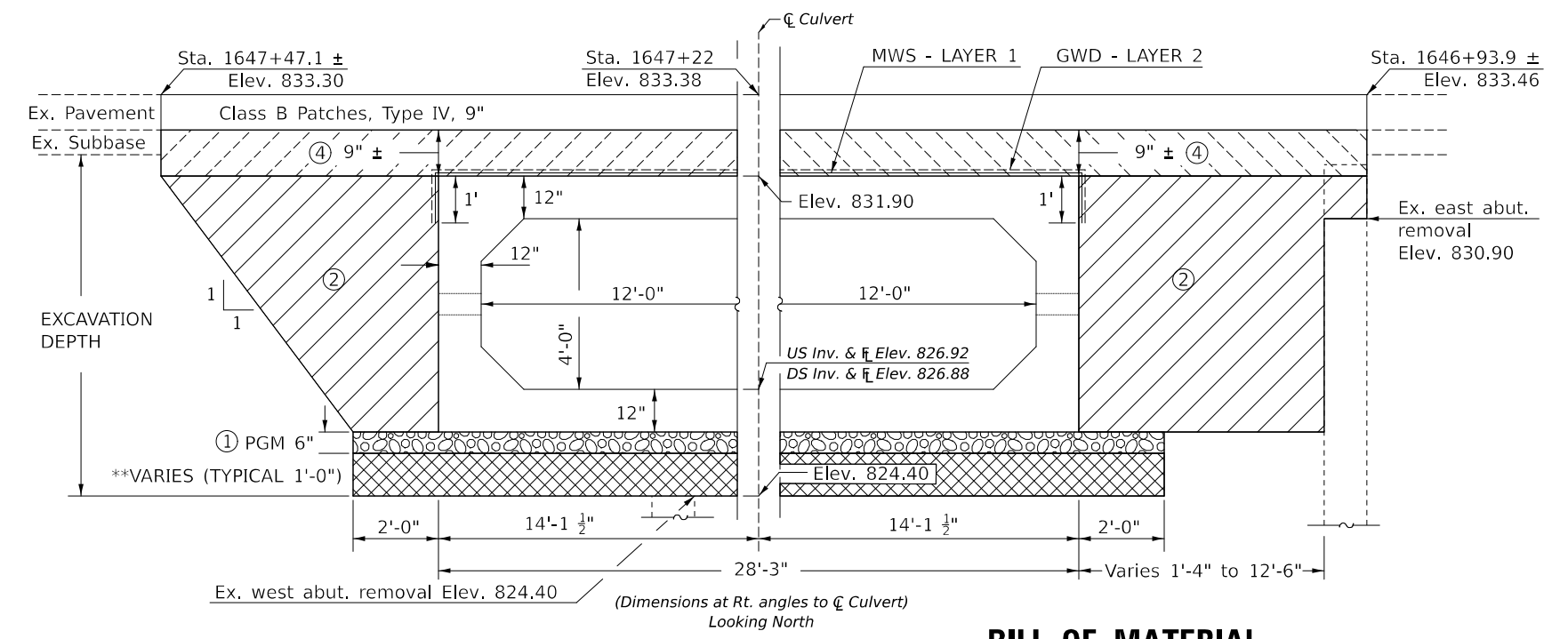
POROUS GRANULAR EMBANKMENT WILL BE MEASURED FOR PAYMENT IN CU. YDS. IN PLACE AS SHOWN. IF THE CONTRACTOR CHOOSES TO EXCAVATE BEYOND THE LIMITS SHOWN, ADDITIONAL QUANTITIES OF POROUS GRANULAR EMBANKMENT WILL BE AT THEIR EXPENSE.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT AND END SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH PRECAST CONCRETE BOX CULVERTS.

*SLOPED EXCAVATION IN TYPE A SOIL SHOWN PER APPENDIX B OF OSHA CFR LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

OPTIONAL CONFIGURATIONS MAY BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS CONTAINED IN THE CODE OF FEDERAL REGULATIONS LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.



BILL OF MATERIAL

ITEM	UNIT	TOTAL
POROUS GRANULAR EMBANKMENT	CU YD	163
STONE RIPRAP, CLASS A1	TON	110
GEOCOMPOSITE WALL DRAIN	SQ YD	156
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	156

REVISED PER ALL BRIDGE DESIGNERS MEMORANDUMS (ABD) 19.2 AND 21.1.

USER NAME = Bridgette Pierson	DESIGNED - TJB	REVISED - TJB
	DRAWN - TJB	REVISED - TJB
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/24/2025	DATE - 10/17/2016	REVISED - 4/5/2025

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**POROUS GRANULAR EMBANKMENT
S.N. 057-2043**

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

D5 DETAIL NO. 20700220 - MODIFIED

F.A.P. R.E. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 25
CONTRACT NO. 70574			ILLINOIS FED. AID PROJECT	

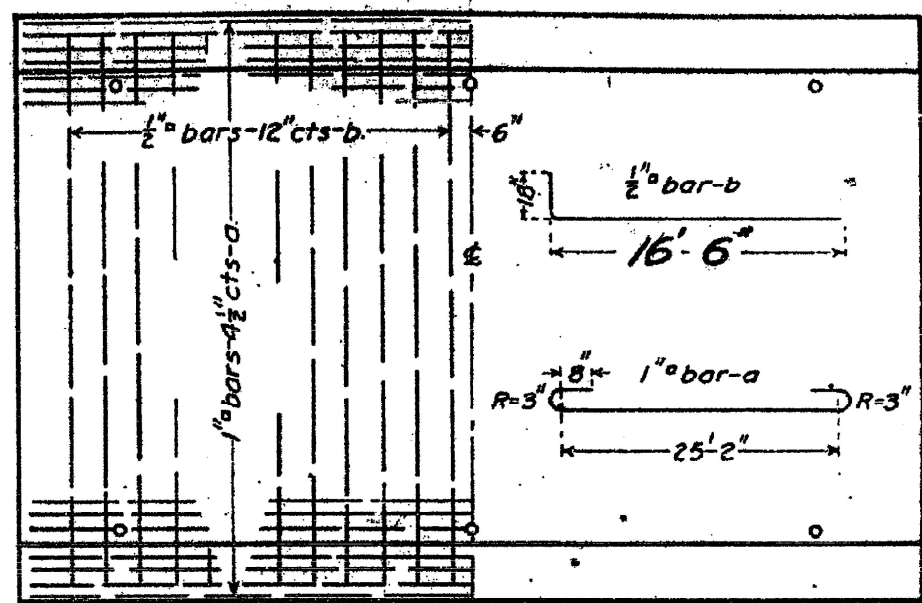
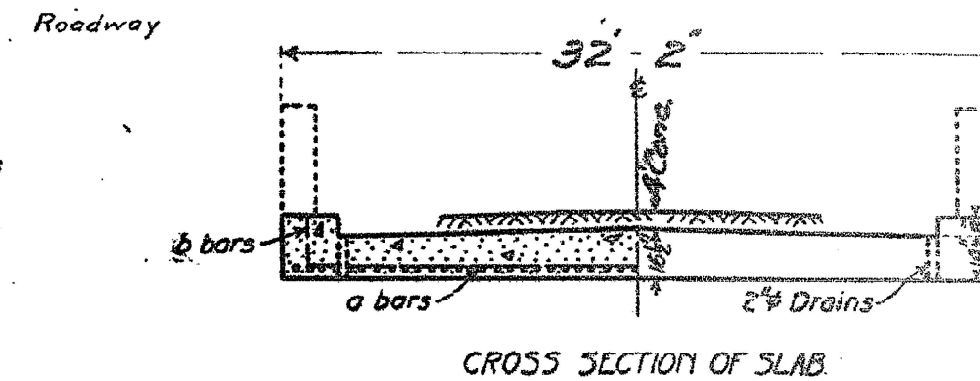
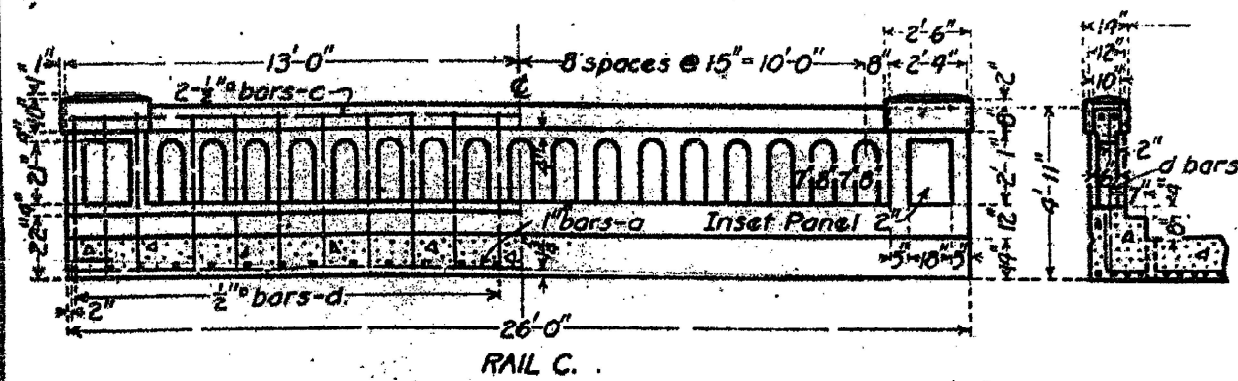
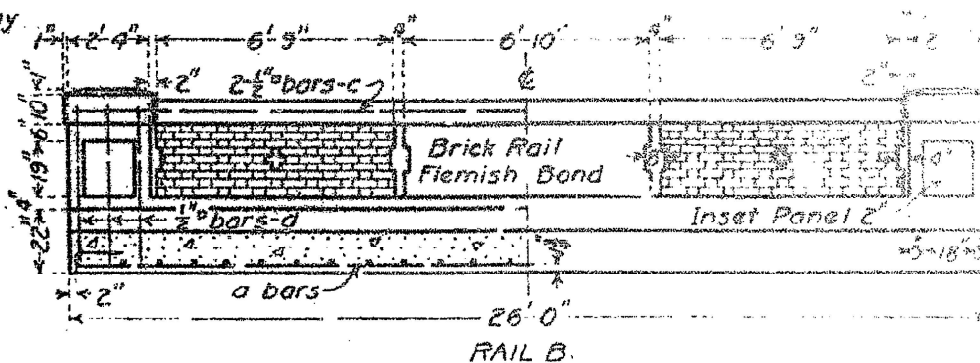
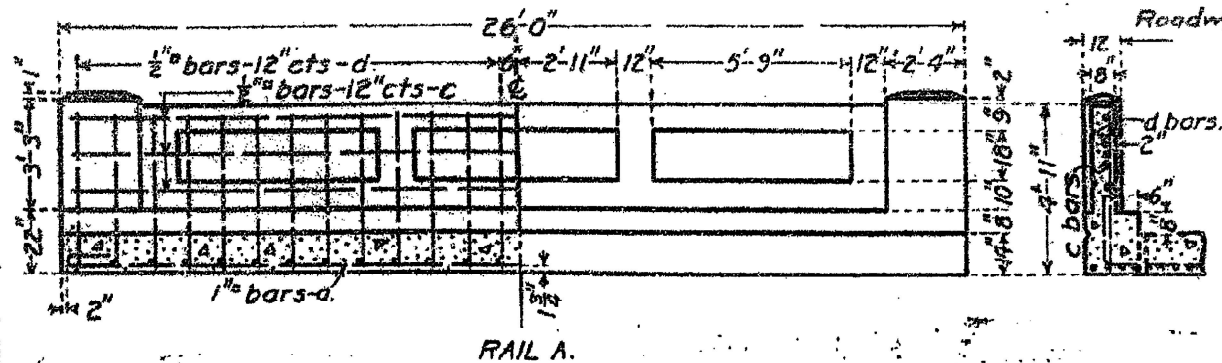
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DIST. NO.	PROJ. NO.	YEAR	NO. SHEETS
7	ILL 97	1924	26 28

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

ROUTE NO.	COUNTY	SECTION
9	MCLEAN	21B

REINFORCED CONCRETE SLAB
SPAN - TWENTY FOUR FEET



BILL OF MATERIAL

	16 FT. ROADWAY				18 FT. ROADWAY				20 FT. ROADWAY				24 FT. ROADWAY				30 FT. ROADWAY								
	Bars	No.	Size	Length	Bars	No.	Size	Length	Bars	No.	Size	Length	Bars	No.	Size	Length	Bars	No.	Size	Length					
RAIL A	a	48	1"	28'-0"	a	53	1"	28'-0"	a	58	1"	28'-0"	a	69	1"	28'-0"	a	85	1"	28'-0"					
	b	24	1/2"	20'-0"	b	24	1/2"	22'-0"	b	24	1/2"	24'-0"	b	24	1/2"	28'-0"	b	48	1/2"	18'-0"					
	c	6	1/2"	25'-6"	c	6	1/2"	25'-6"	c	6	1/2"	25'-6"	c	4	1/2"	25'-6"	c	6	1/2"	25'-6"					
	d	52	1/2"	4'-6"	d	52	1/2"	4'-6"	d	52	1/2"	4'-6"	d	52	1/2"	4'-6"	d	52	1/2"	4'-6"					
	Steel-Lbs.	5910				Steel-Lbs.	5820				Steel-Lbs.	6340				Steel-Lbs.	7970				Steel-Lbs.	9160			
	Concrete-Cu.Yds.	280				Concrete-Cu.Yds.	304				Concrete-Cu.Yds.	329				Concrete-Cu.Yds.	378				Concrete-Cu.Yds.	452			
RAIL B	a	48	1"	28'-0"	a	53	1"	28'-0"	a	58	1"	28'-0"	a	69	1"	28'-0"	a	85	1"	28'-0"					
	b	24	1/2"	20'-0"	b	24	1/2"	22'-0"	b	24	1/2"	24'-0"	b	24	1/2"	28'-0"	b	48	1/2"	18'-0"					
	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"					
	d	12	1/2"	4'-6"	d	12	1/2"	4'-6"	d	12	1/2"	4'-6"	d	12	1/2"	4'-6"	d	12	1/2"	4'-6"					
	Steel-Lbs.	5110				Steel-Lbs.	5630				Steel-Lbs.	6150				Steel-Lbs.	7270				Steel-Lbs.	8860			
	Concrete-Cu.Yds.	266				Concrete-Cu.Yds.	291				Concrete-Cu.Yds.	315				Concrete-Cu.Yds.	364				Concrete-Cu.Yds.	437			
	Brick Rail-Cu.Yds.	2.0				Brick Rail-Cu.Yds.	2.0				Brick Rail-Cu.Yds.	2.0				Brick Rail-Cu.Yds.	2.0				Brick Rail-Cu.Yds.	2.0			
RAIL C	a	48	1"	28'-0"	a	53	1"	28'-0"	a	58	1"	28'-0"	a	69	1"	28'-0"	a	85	1"	28'-0"					
	b	24	1/2"	20'-0"	b	24	1/2"	22'-0"	b	24	1/2"	24'-0"	b	24	1/2"	28'-0"	b	48	1/2"	18'-0"					
	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"	c	4	1/2"	25'-6"					
	d	44	1/2"	4'-6"	d	44	1/2"	4'-6"	d	44	1/2"	4'-6"	d	44	1/2"	4'-6"	d	44	1/2"	4'-6"					
	Steel-Lbs.	5230				Steel-Lbs.	5750				Steel-Lbs.	6270				Steel-Lbs.	7900				Steel-Lbs.	9080			
	Concrete-Cu.Yds.	274				Concrete-Cu.Yds.	298				Concrete-Cu.Yds.	323				Concrete-Cu.Yds.	372				Concrete-Cu.Yds.	445			

Use class A Concrete Throughout.
Proportions-1:2 1/2:4.

USE RAIL B, 30 FT ROADWAY.

COMPUTED	Walter J. Todd
CHECKED	Don L. ...
DRAWN	H.B. ...
CHECKED	...
SPECIAL	ASSEMBLED
CHECKED	...

DESIGNED *Aug 9 1924*
G.F. ...
...
...

Sta. 1647+16
S.B. Issue Route No. 1
Sec. 21B McLean Co
Illinois.

MODEL: Default
FILE NAME: c:\pwwork\pwwork\projects\0964963\0570574\slab\asbuilt.dgn

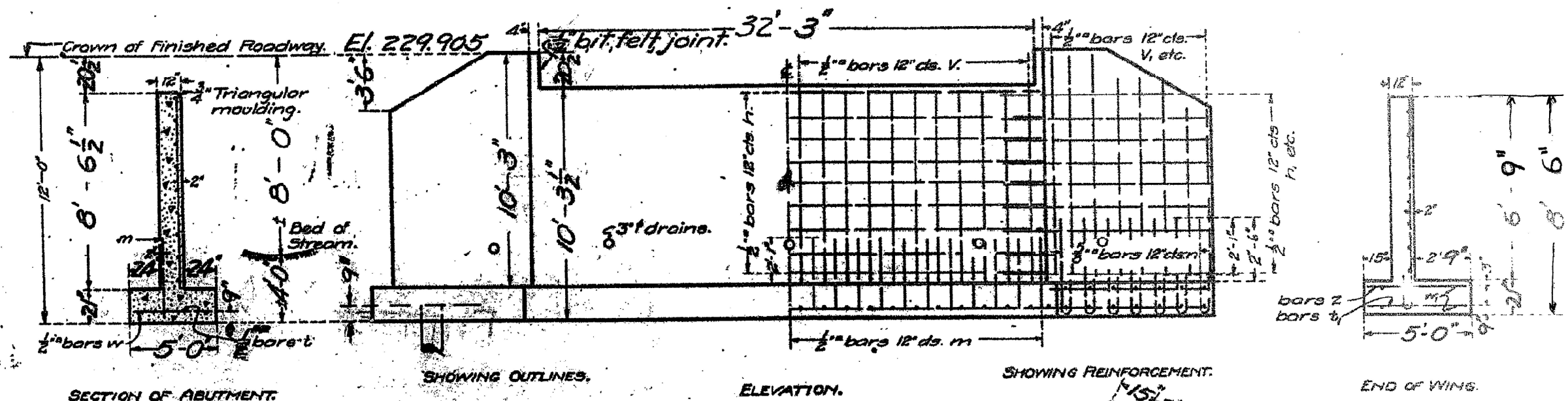
Existing I-beam span to be removed by bridge contractor.
 B.M. "208 N&N in Root 24"
 Maple Lt. Sta. 1649+48 Elev. 228.21

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

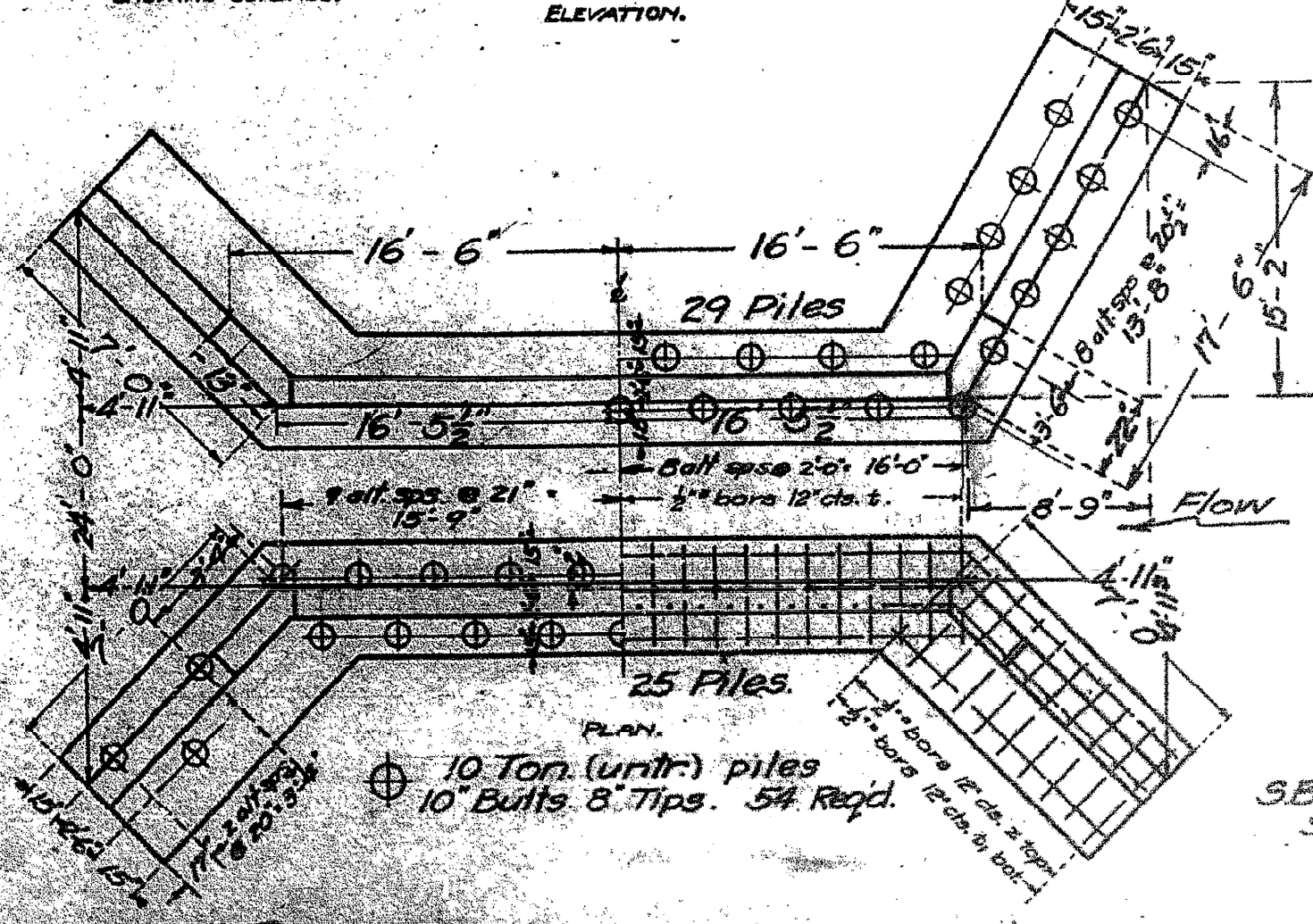
R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 12 FEET

ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
9	MCLEAN	21B	28	26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
7	ILL	97	1924	26



Class A concrete shall be used throughout.
 Proportions: 1-2 1/2-4.
 All reinforcing steel shall be securely wired in place before concrete is poured.



W₂ 4 1/2" 18'-0"

BILL OF MATERIAL.

Bars	No	Size	Length
v	66	1/2"	8'-8"
v	6	1/2"	9'-0"
v	16	1/2"	7'-6"
v	16	1/2"	6'-0"
h	32	1/2"	17'-0"
h	21	1/2"	9'-0"
h	9	1/2"	5'-0"
b	66	1/2"	4'-9"
b	38	1/2"	4'-9"
z	38	1/2"	4'-9"
w	8	1/2"	17'-0"
w	12	1/2"	8'-0"
m	66	1/2"	3'-0"
n	38	1/2"	3'-0"

Reinforcing Steel - Lbs 2700
 Concrete Cu. Yds. 65.50
 h₁ 3 1/2" 12'-0"
 h₂ 7 1/2" 19'-5"

COMPUTED -	H.P. Duffell
CHECKED -	ED. Leary
DRAWN -	J.R.Z.
DESIGNED -	H.P.D.
APPROVED -	[Signature]
CAREER -	[Signature]

DESIGNED - [Signature]
 DRAWN - [Signature]
 CHECKED - [Signature]

USER NAME =	DESIGNED -	REVISED -
BRIDGETTE.PIerson	-	-
	DRAWN -	REVISED -
	-	-
	CHECKED -	REVISED -
	-	-
PLOT DATE =	DATE -	REVISED -
7/15/2025	-	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	28
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 9	*	MCLEAN	65	58
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

* 21, 22 (A, W & H), 21BR, 21BR-1 & 22BR

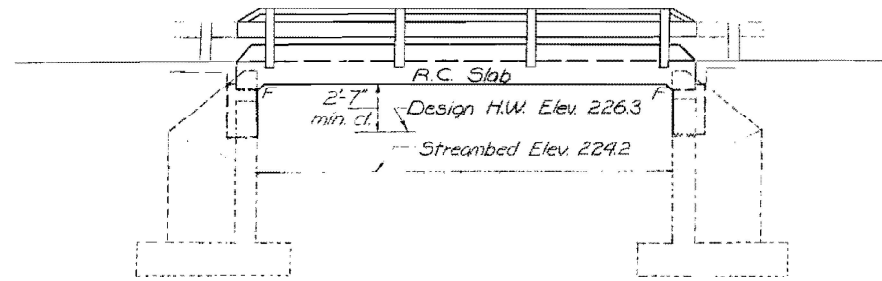
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering materials.
Expansion bolts shall consist of self drilling expansion anchors and 3/4" diameter x 12" hooked bolts.
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
For Waterproofing Membrane System see Special Provisions.

BENCHMARK: 'D' cut in NW wing. Elev 229.93

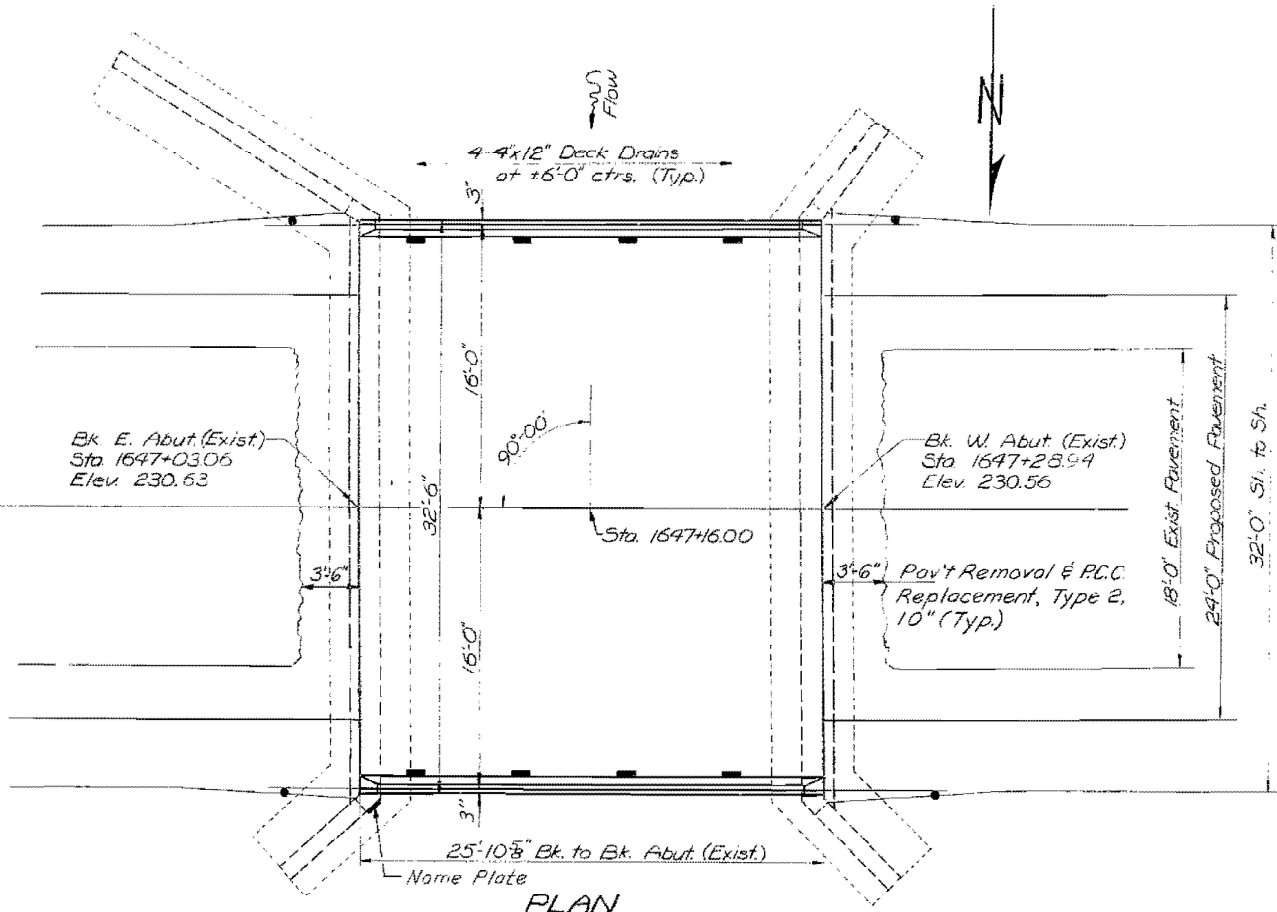
EXISTING STRUCTURE: Built in 1925 as SBI 9, Sec 21B at Sta. 1647+16.
#057-0077
Consists of a single span R.C. slab on R.C. closed abutments.
Contractor shall replace superstructure and rebuild substructure during construction. No salvage.
Traffic to be detoured during construction.



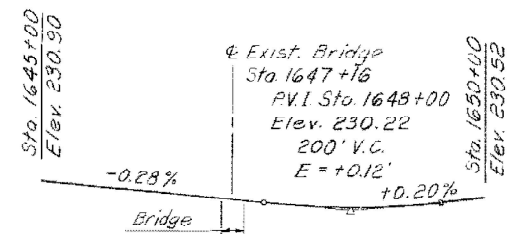
ELEVATION

STATION 1647+16.00
REBUILT 197 BY
STATE OF ILLINOIS
S.B.I. RTE. 9 SEC. 21 BR-1
LOADING HS 20

NAME PLATE
See Std 2113



PLAN



PROFILE GRADE S.B.I. RTE. 9

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Protective Coat	Sq Yd	3		3
Concrete Removal	Cu Yds		3	3
Class X Concrete	Cu Yds	42.5	7.4	49.9
Steel Reinforcing Type T	Lin. Ft.	52		52
Reinforcement Bars	Lbs	3959	1166	11125
Waterproofing Membrane System	Sq Yds	98		98
Name Plate	Each		1	1
Bituminous Concrete Surface Course Mixture D, Class I	Tons	9		9
Expansion Bolts, 3/4" Dia.	Each		42	42
Pavement Removal & P.C.C. Replacement Type 2, 10"	Sq Yds	14		14
Removal of Existing Superstructure	Each	1		1

DESIGNED	G. Kogut
CHECKED	J. Buba
DRAWN	G. Sebastian
CHECKED	G. Kogut

WATERWAY INFORMATION

Drainage Area 218 acres
Character level to rolling, cultivated
Present Opening 50 sq. ft.
Required Opening 50 sq. ft.
Proposed Opening 50 sq. ft.
Design Q(50) 384 cfs.
Q(100) 510 cfs.

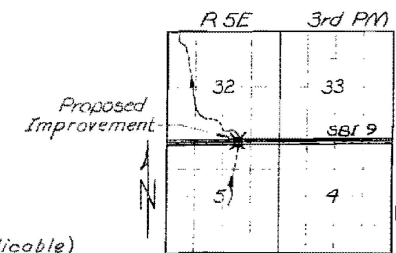
DESIGN STRESSES

f_c = 1400 psi
f_s = 20,000 psi
n = 10

DESIGN SPECIFICATIONS: 1973 AASHTO 1974 and 1975 Interim Specifications (as applicable)

DESIGN LOADING: HS 20-44 (new construction)

Allow 25 PSF for future wearing surface



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
SBI RTE 9 OVER A CREEK
SBI RTE 9, SEC 21BR-1
MCLEAN COUNTY
STATION 1647+16.00

MODEL: Default
FILE NAME: c:\pwworking\projects\09849631D570574-shl-A-B\illinois.dgn

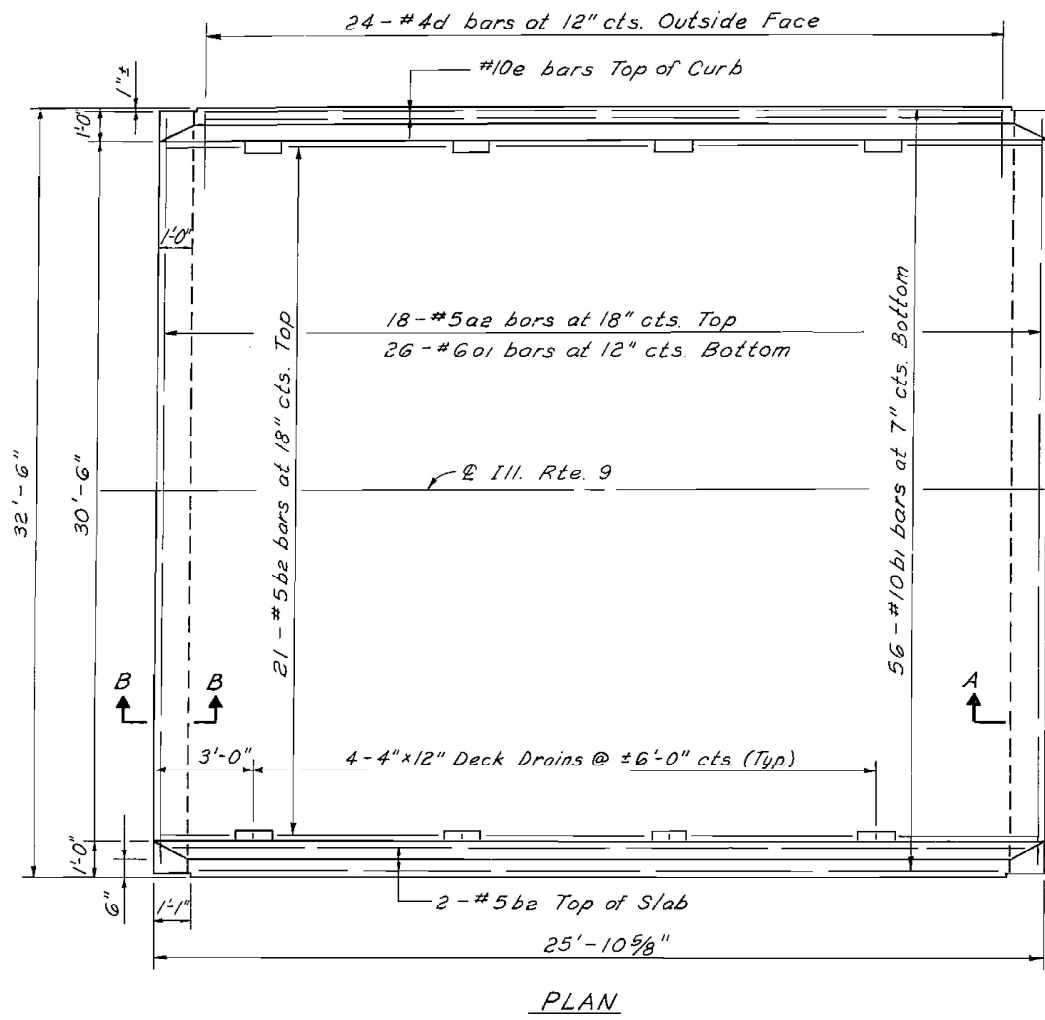
USER NAME = Bridgette.Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

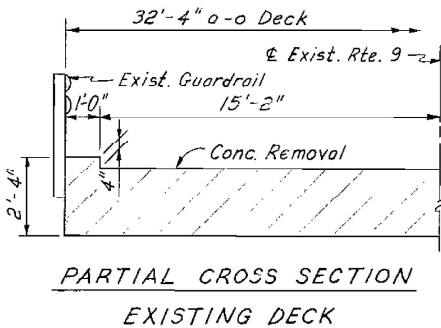
AS BUILT PLANS

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

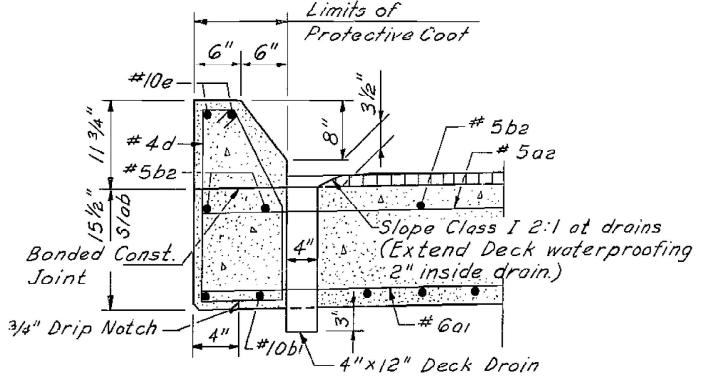
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	29
				CONTRACT NO. 70574
ILLINOIS FED. AID PROJECT				



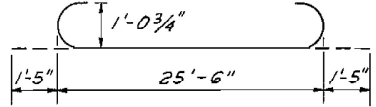
PLAN



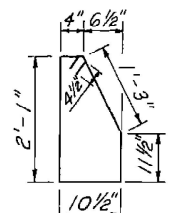
PARTIAL CROSS SECTION EXISTING DECK



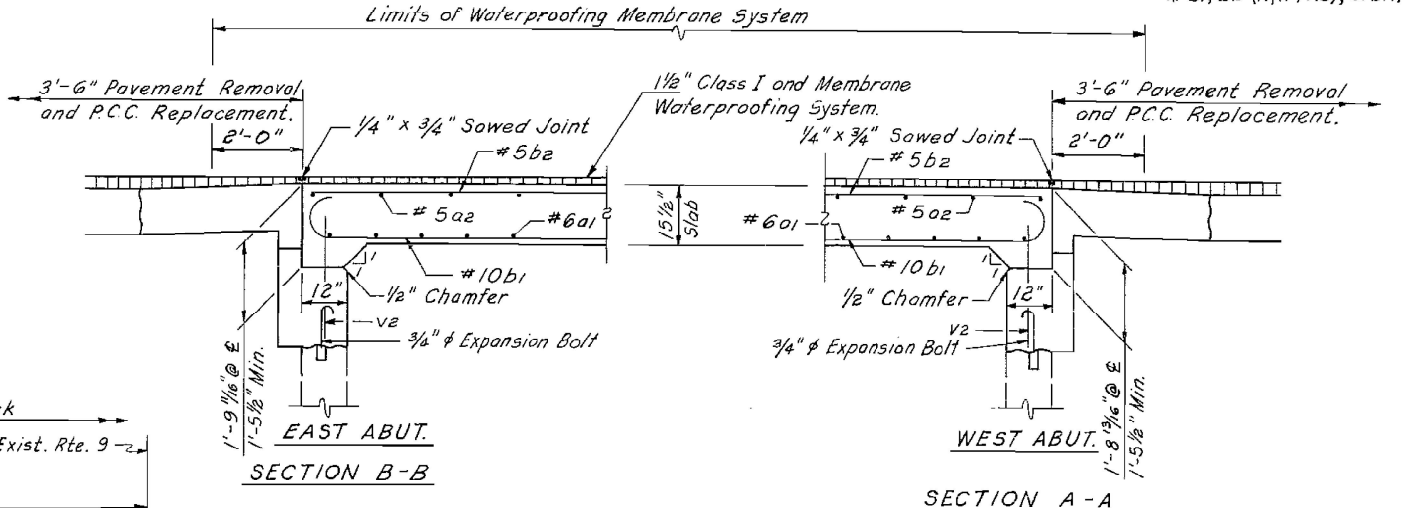
CURB SECTION



BAR b1

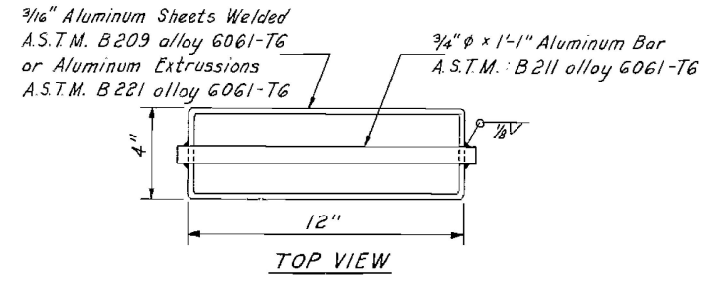


BAR d



EAST ABUT. SECTION B-B

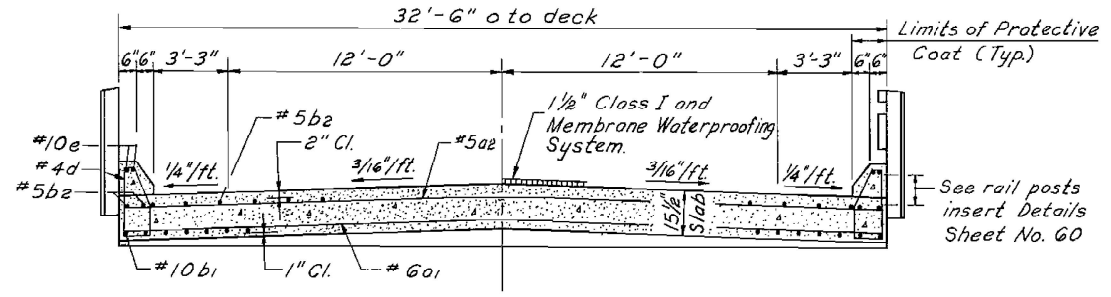
WEST ABUT. SECTION A-A



DECK DRAIN (Cost Incidental)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
a1	#6	32'-2"	—
a2	#5	32'-2"	—
b1	#10	28'-4"	⊔
b2	#5	25'-6"	—
d	#4	6'-3"	⊔
Reinforcement Bars			Lbs. 9552
Class X Concrete			Cu. Yds. 41.0
Protective Coat			Sq. Yd. 9



CROSS SECTION NEAR ABUTMENT

DESIGNED	G. Kogut
CHECKED	J. Buba
DRAWN	G. Sebastian
CHECKED	G. Kogut

Note: The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DECK
S.B.I. RTE. 9 OVER A CREEK
SECTION 21 BR-1
MCLEAN COUNTY

Scale: As Shown
Date: Jan. 1976

Drawn By: _____
Checked By: _____

KNOERLE, BENDER, STONE & ASSOCIATES, INC.
Consulting Engineers - Chicago, Illinois

USER NAME = Bridgette.Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

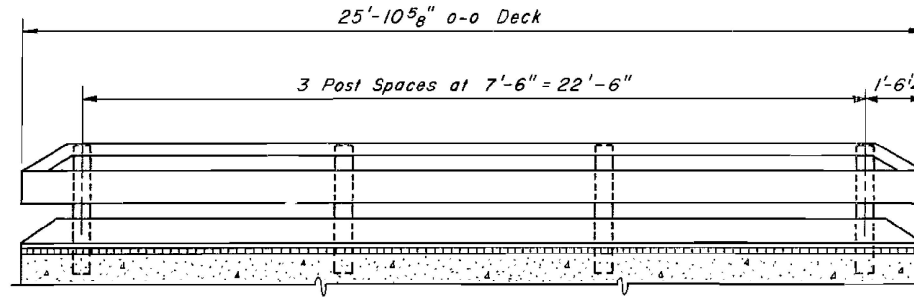
F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 30
			CONTRACT NO. 70574	
		ILLINOIS FED. AID PROJECT		

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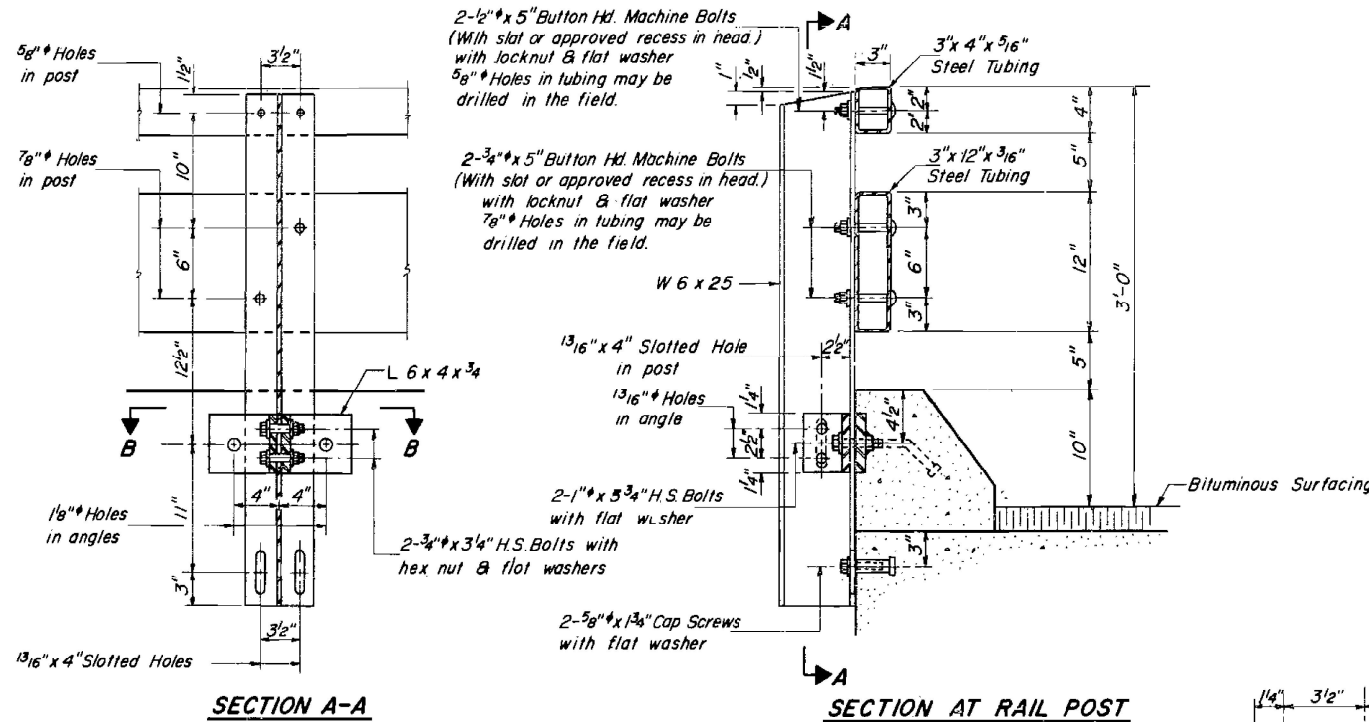
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 9	*	McLEAN	65	60
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* 21, 22 (R, W&RS), 21BR, 21BR-1 & 22BR

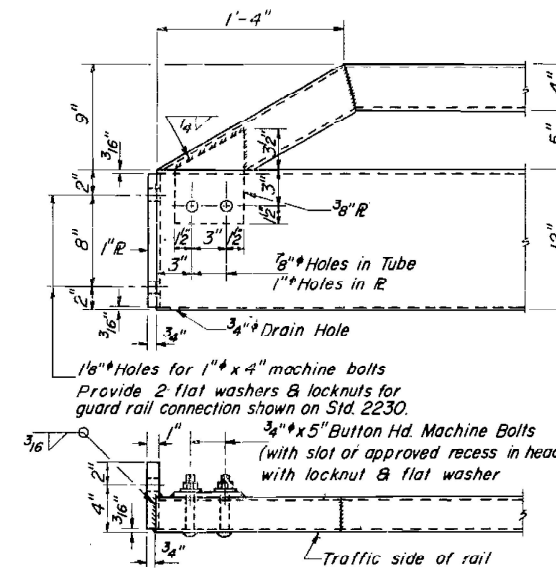


ELEVATION



SECTION A-A

SECTION AT RAIL POST



END OF RAIL DETAILS

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO designation M183 except posts shall conform to AASHTO M188 Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO designation M232.

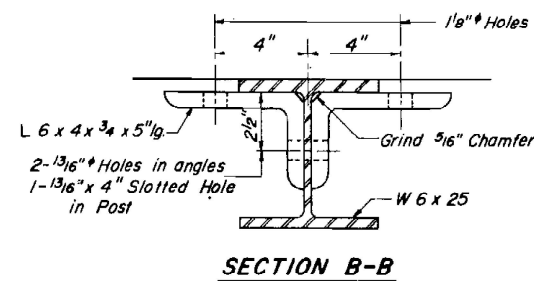
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO designation M111 and ASTM A385 Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE T.

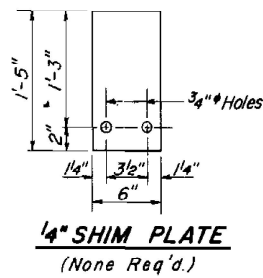
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

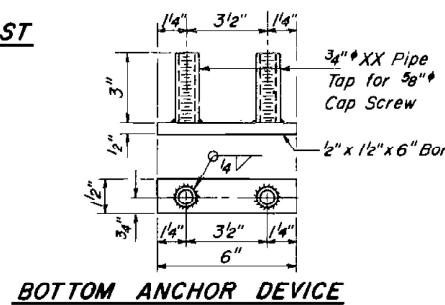
The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 50704(g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn.



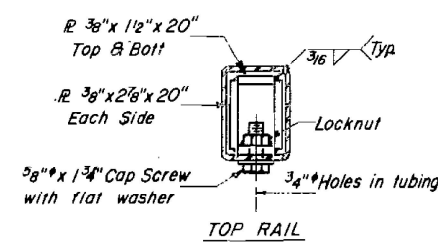
SECTION B-B



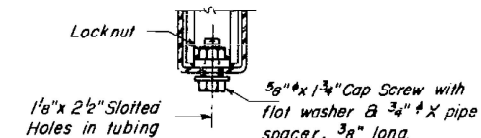
1/4" SHIM PLATE
(None Req'd.)



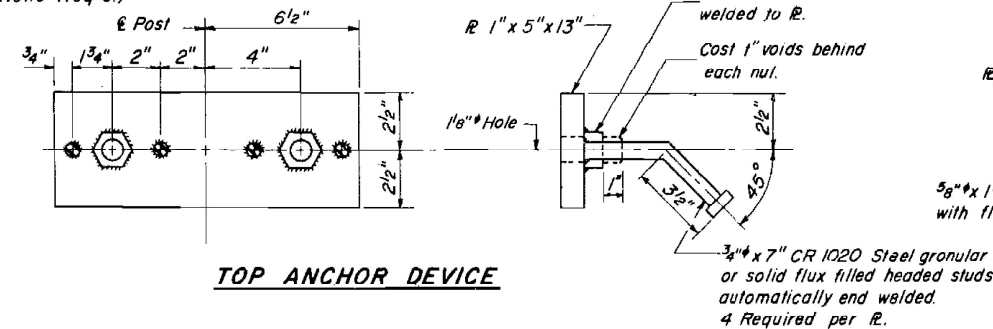
BOTTOM ANCHOR DEVICE



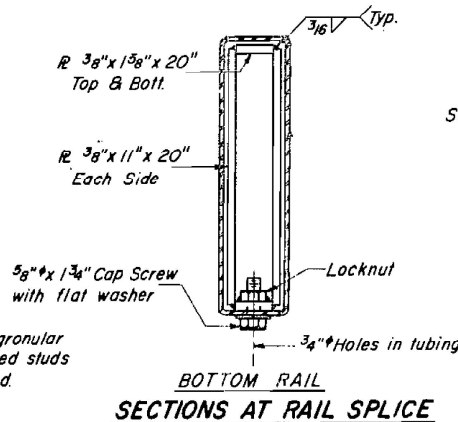
TOP RAIL



RAIL SPLICE CONNECTION
AT EXPANSION JT.



TOP ANCHOR DEVICE



BOTTOM RAIL
SECTIONS AT RAIL SPLICE

CURB & RAIL
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	4	#10	23'-8"	
Reinforcement Bars			Lbs.	407
Glass X Concrete			Cu. Yds.	1.5
Steel Railing, Type T			Lin. Ft.	52'-0"

TYPE T
STEEL RAILING
S.B.I. RTE. 9 OVER A CREEK
SECTION 21 BR-1
MCLEAN COUNTY

DESIGNED	G. Kogut
CHECKED	J. Buba
DRAWN	G. Sebastian
CHECKED	G. Kogut

(9'-0" Maximum Post Spacing)

USER NAME	DESIGNED	REVISIONS
= Bridgette.Pierson	-	-
	-	-
	-	-
	-	-
	-	-
PLOT DATE = 7/15/2025	DATE	REVISED

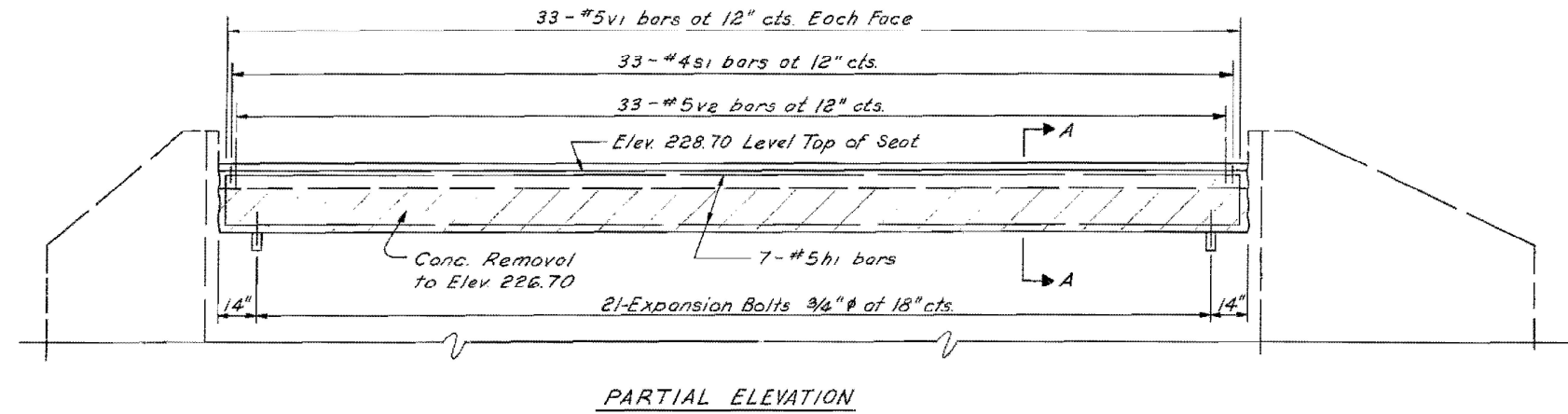
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS

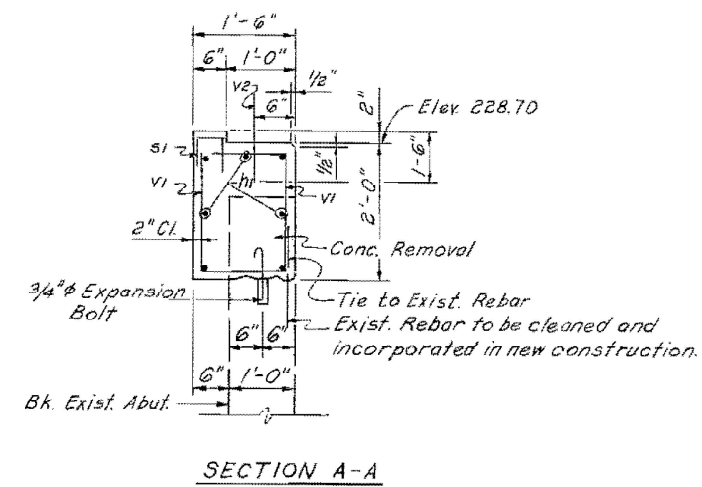
SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	31
				CONTRACT NO. 70574
ILLINOIS FED. AID PROJECT				

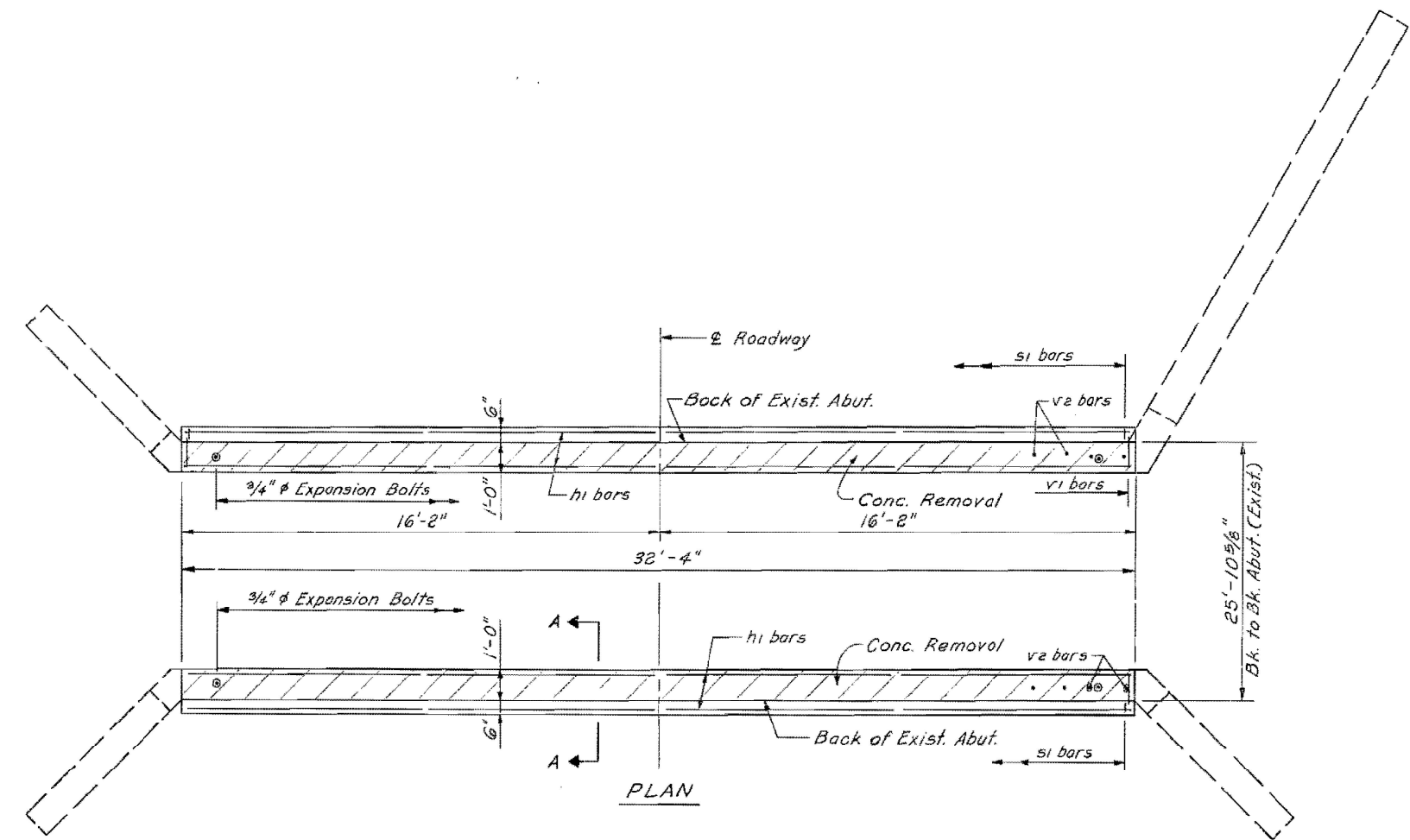
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3.B.I. 9	*	McLEAN	65	61
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 21, 22 (R, W & RS), 21BR, 21BR-1 & 22BR				



PARTIAL ELEVATION



SECTION A-A

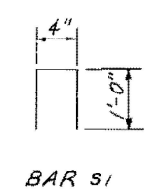
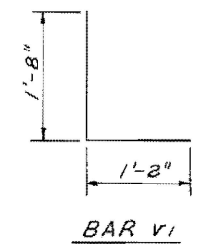


PLAN

BILL OF MATERIAL FOR TWO ABUTMENTS

Bar No.	Size	Length	Shape
h1 14	#5	32'-0"	—
v1 132	#5	2'-10"	L
v2 66	#5	3'-0"	—
s1 66	#4	2'-4"	□
Class X Concrete		Cu. Yd.	7.4
Reinforcement Bars		Lbs.	1166
Concrete Removal		Cu. Yd.	3.0
Expansion Bolts, 3/4"		Each	42

DESIGNED	G. Kogut
CHECKED	J. Buba
DRAWN	G. Sebastian
CHECKED	G. Kogut



REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ABUTMENTS
S.B.I. RTE. 9 OVER A CREEK
SECTION 21 BR-1
MCLEAN COUNTY

Scale: As Shown
Date: Jan. 1978

Drawn By: _____
Checked By: _____

KNOERLE, BENDER, STONE & ASSOCIATES, INC.
Consulting Engineers - Chicago, Illinois

USER NAME = Bridgette.Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS	
SCALE:	SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	32
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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GUARDRAIL PLAN

SEC. 5, T23N., R.5E., 3RD.P.M.

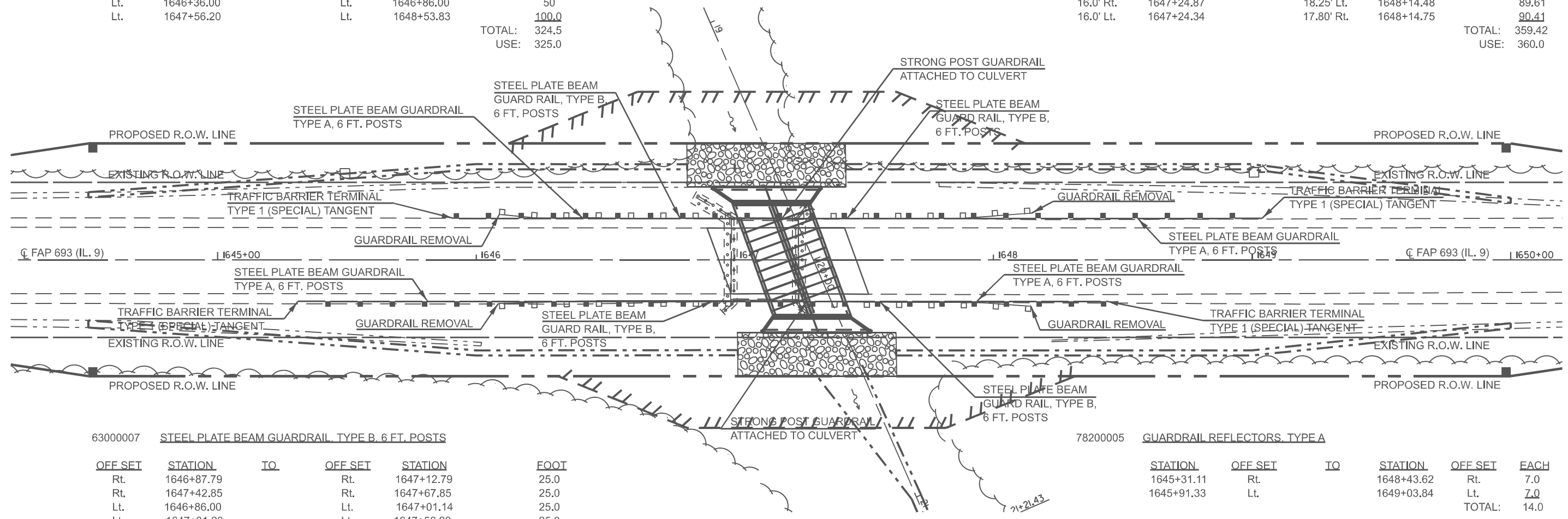


63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT. POSTS

OFF SET	STATION	TO	OFF SET	STATION	FOOT
Rt.	1645+75.79		Rt.	1646+87.79	112.0
Rt.	1647+67.85		Rt.	1648+30.35	62.5
Lt.	1646+36.00		Lt.	1646+86.00	50
Lt.	1647+56.20		Lt.	1648+53.83	100.0
					TOTAL: 324.5
					USE: 325.0

63200310 GUARDRAIL REMOVAL

OFF SET	STATION	TO	OFF SET	STATION	FOOT
16.87' Rt.	1646+08.57		16.0' Rt.	1646+98.47	89.90
17.55' Lt.	1646+08.92		16.0' Lt.	1646+98.42	89.50
16.0' Rt.	1647+24.87		18.25' Lt.	1648+14.48	89.61
16.0' Lt.	1647+24.34		17.80' Rt.	1648+14.75	90.41
					TOTAL: 359.42
					USE: 360.0



63000007 STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FT. POSTS

OFF SET	STATION	TO	OFF SET	STATION	FOOT
Rt.	1646+87.79		Rt.	1647+12.79	25.0
Rt.	1647+42.85		Rt.	1647+67.85	25.0
Lt.	1646+86.00		Lt.	1647+01.14	25.0
Lt.	1647+31.20		Lt.	1647+56.20	25.0
					TOTAL: 100.0

78200005 GUARDRAIL REFLECTORS, TYPE A

STATION	OFF SET	TO	STATION	OFF SET	EACH
1645+31.11	Rt.		1648+43.62	Rt.	7.0
1645+91.33	Lt.		1649+03.84	Lt.	7.0
					TOTAL: 14.0

63000030 STRONG POST GUARDRAIL ATTACHED TO STRUCTURE

OFF SET	STATION	TO	STATION	FOOT
Rt.	1647+12.79		1647+42.85	30
Lt.	1647+01.14		1647+31.21	30
				TOTAL: 60.0

72501000 TERMINAL MARKER DIRECT APPLIED

STATION	OFF SET	EACH
1645+31.11	Rt.	1.0
1645+91.33	Lt.	1.0
1648+43.62	Rt.	1.0
1649+03.84	Lt.	1.0
		TOTAL: 4.0

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

OFF SET	STATION	TO	STATION	EACH
Rt.	1645+31.12		1645+75.79	1.0
Rt.	1647+93.61		1648+43.62	1.0
Lt.	1645+91.33		1646+41.33	1.0
Lt.	1648+53.83		1649+03.83	1.0
				TOTAL: 4.0

SEC. 5, T24N., R.5E., 3RD.P.M.

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT_0110\Organization=Civil\IDOT_Standards\Civil\IDOT_Sheets.dwg

USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL PLAN

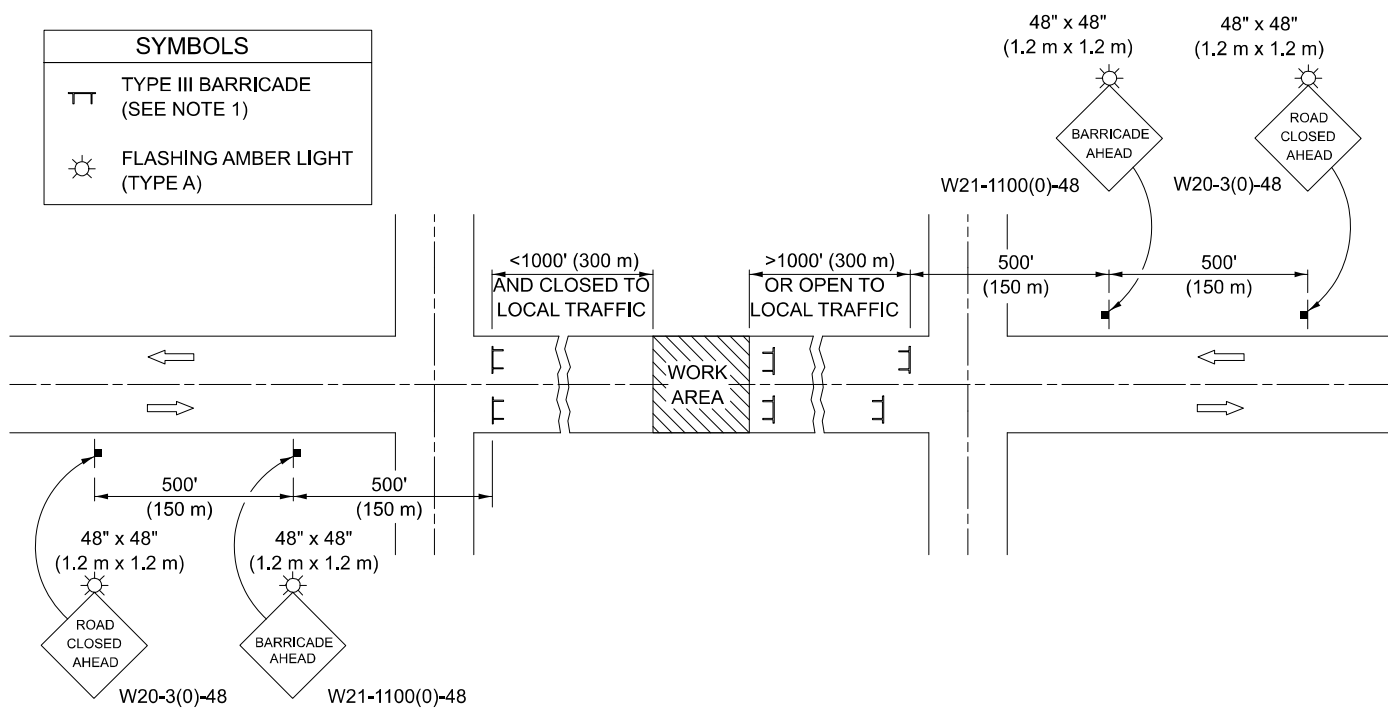
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 33
				CONTRACT NO. 70574
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

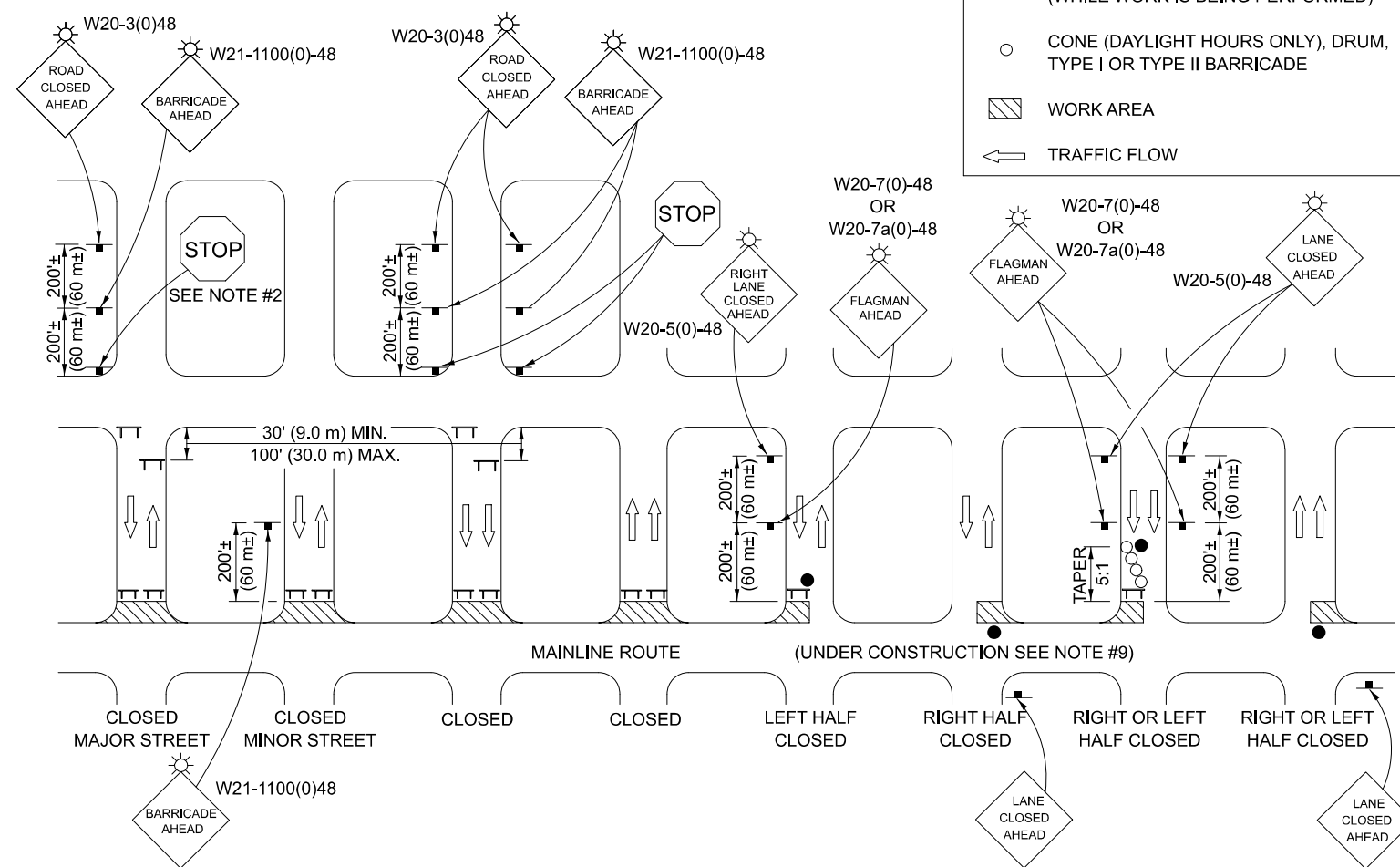
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7020000

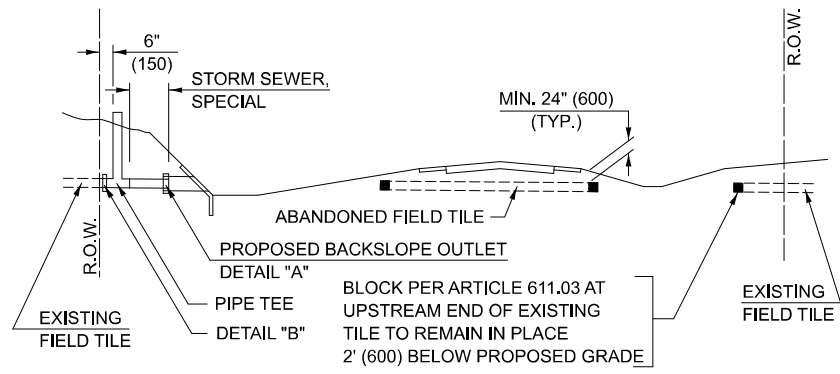
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	DRAWN -	REVISED - 12/07
PLOT SCALE = 0.06333300' / in.	CHECKED -	REVISED - 09/09 KJT
PLOT DATE = 12/7/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD / STREET CLOSURES)**

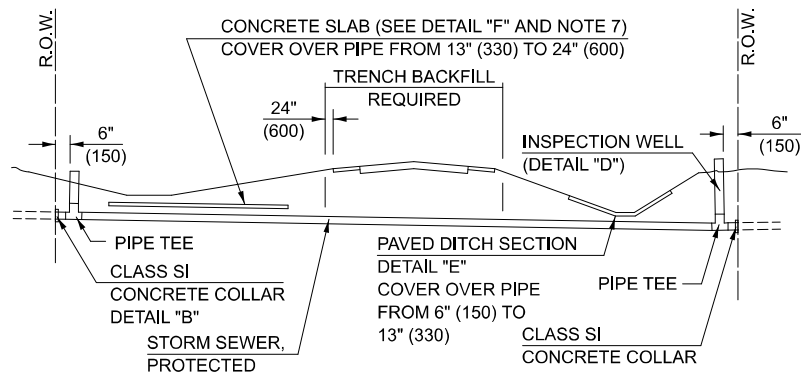
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	34
CONTRACT NO. 70574			ILLINOIS FED. AID PROJECT	



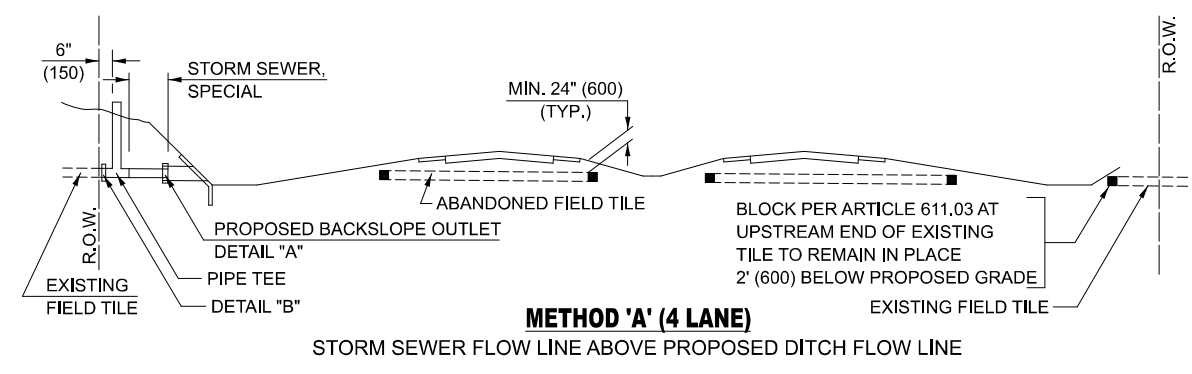
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



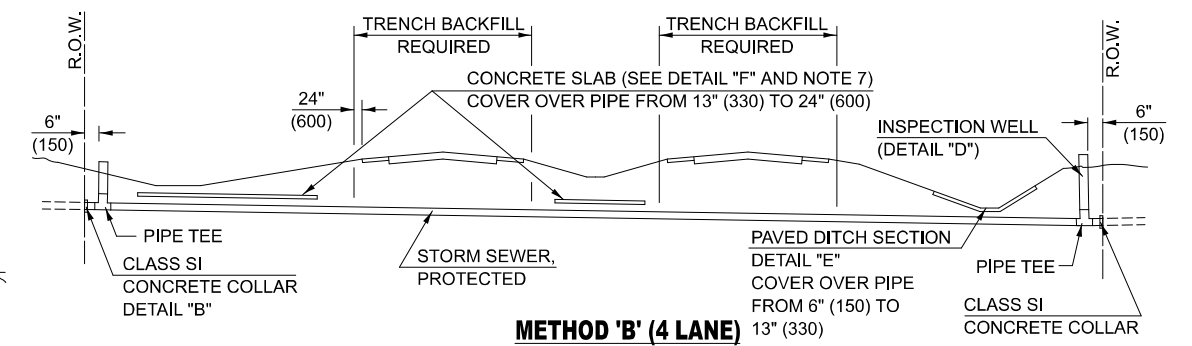
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



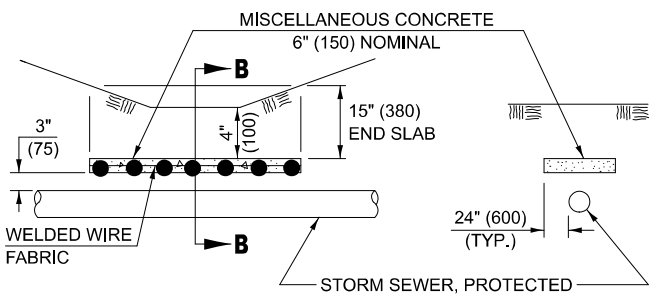
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



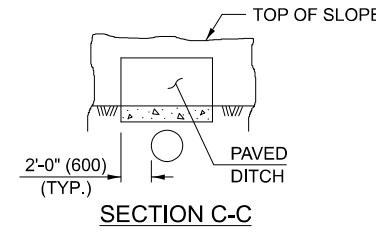
METHOD 'B' (4 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



SLAB ELEVATION

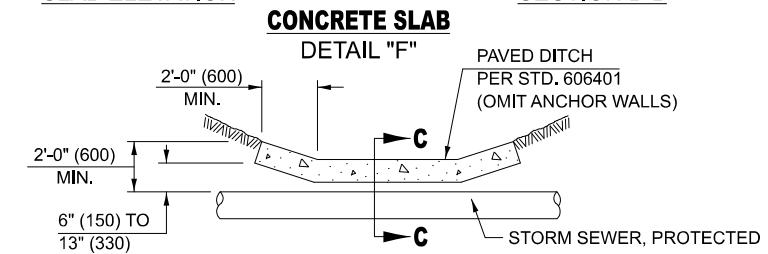
SECTION B-B



SECTION C-C

PAVED DITCH

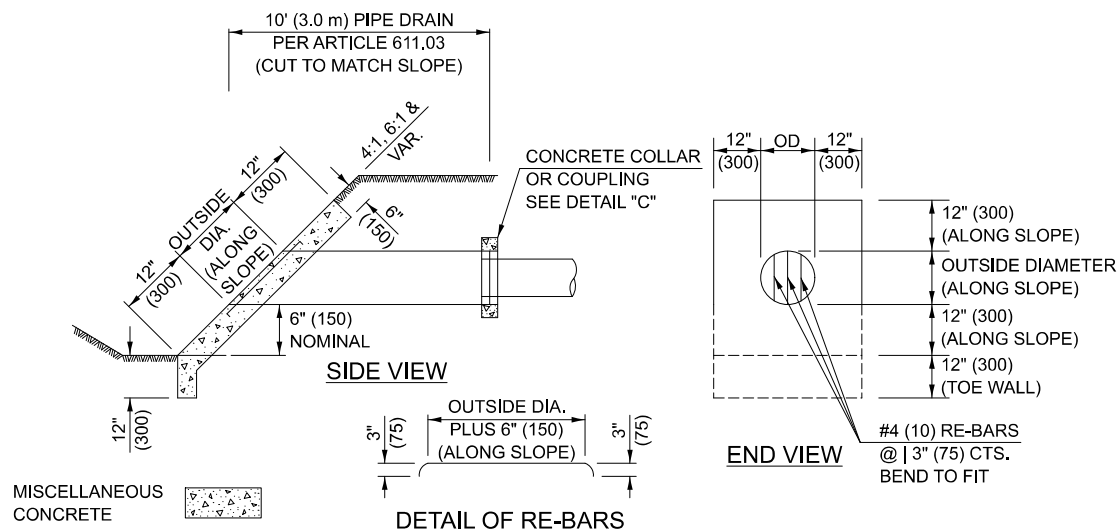
DETAIL 'E'



CONCRETE SLAB

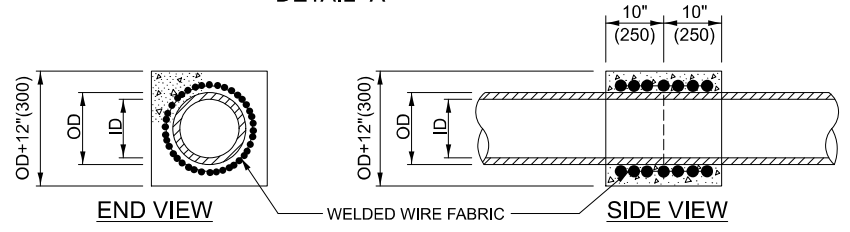
DETAIL 'F'

PAVED DITCH ELEVATION



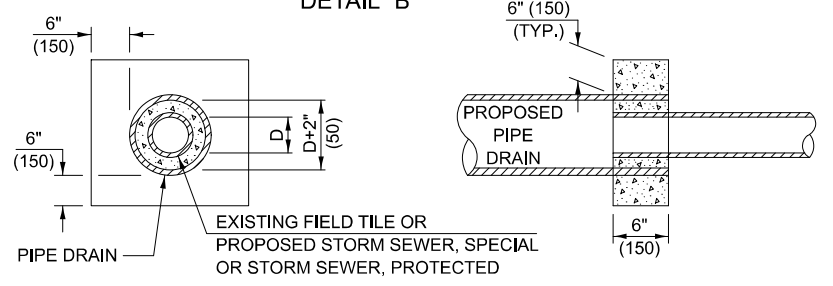
HEADWALL FOR BACKSLOPE OUTLET

DETAIL 'A'



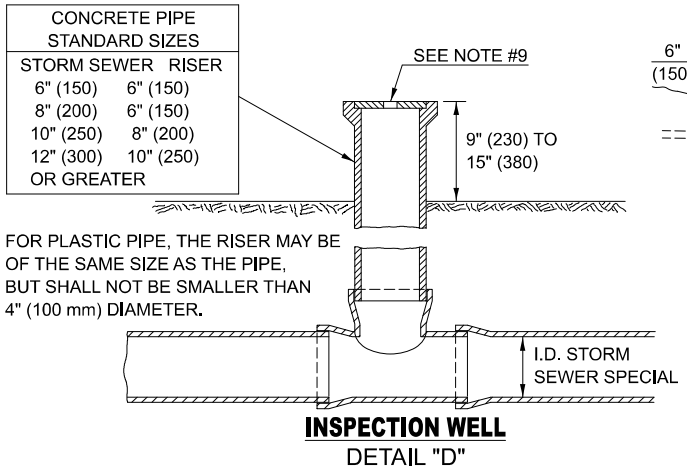
CONCRETE COLLAR

DETAIL 'B'



CLASS SI COLLAR

DETAIL 'C'



INSPECTION WELL

DETAIL 'D'

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.

GENERAL NOTES

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 61101011A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

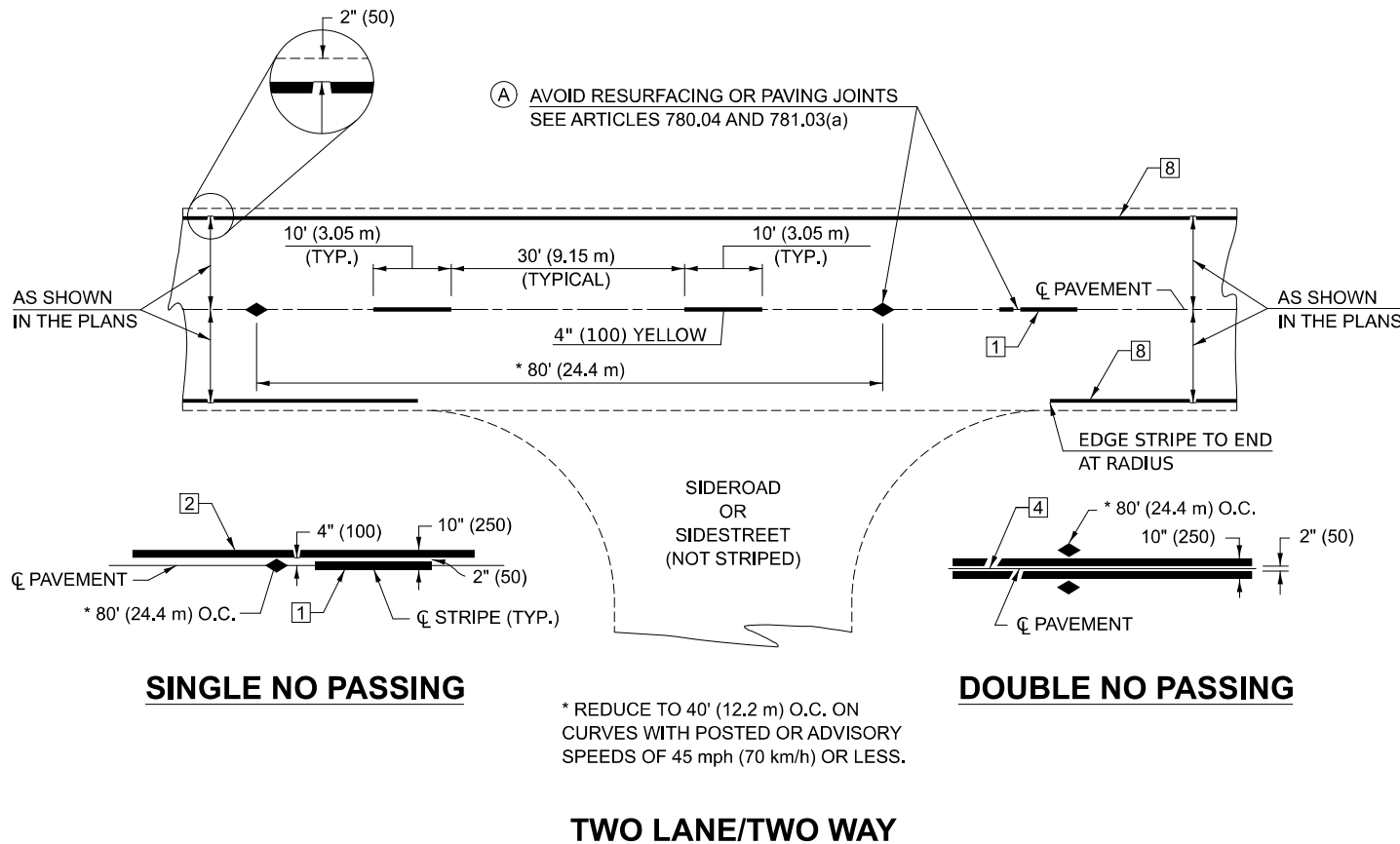
FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

USER NAME = Bridgette,Plerson	DESIGNED -	REVISED - 11/06
PLOT SCALE = 0.06333333' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2025	CHECKED -	REVISED -
	DATE -	REVISED -

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

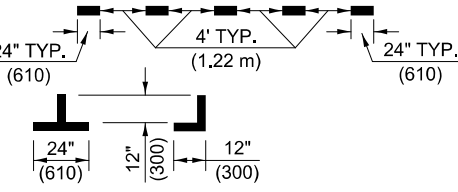
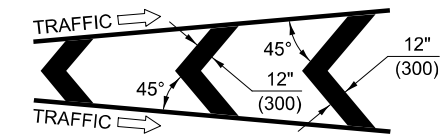
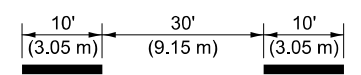
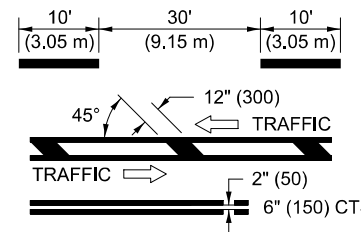
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	35
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

MODEL: 61101011A
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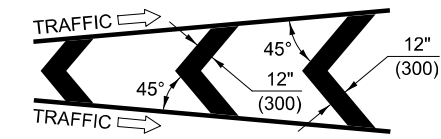
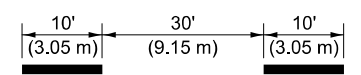
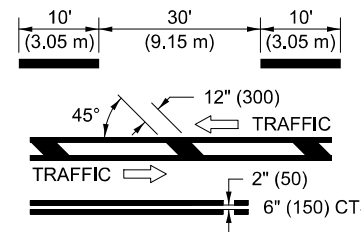
TYPICAL PAVEMENT MARKING LENGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

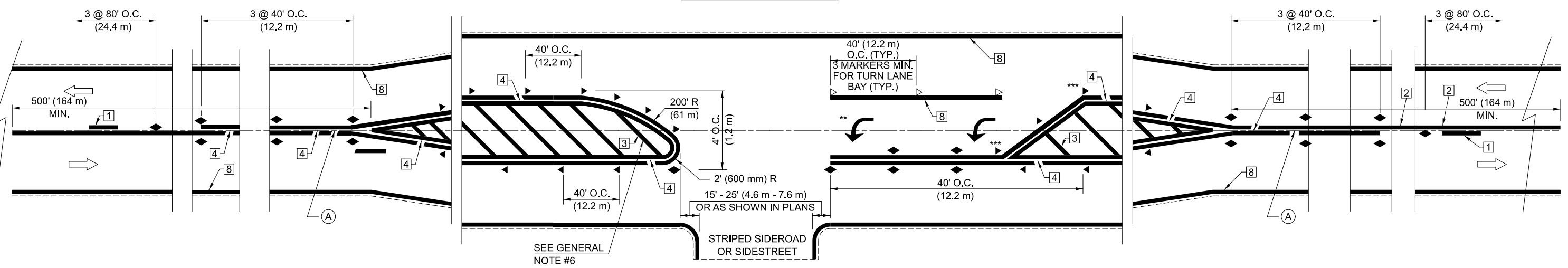


TYPICAL PAVEMENT MARKERS LENGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN OF SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

MODEL - SHT_PLAN
FILE NAME: C:\Bentley\CONNECT\10110\organizational\chil\DOT_Standards\Civil\DOT_Sheets.cad

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 4/2014 JLA
	DRAWN -	REVISED - 3/2019 SWN
PLOT SCALE = 0.06333300' / in.	CHECKED -	REVISED - 8/2022 JLA
PLOT DATE = 12/7/2022	DATE -	REVISED - 9/2022 JWS

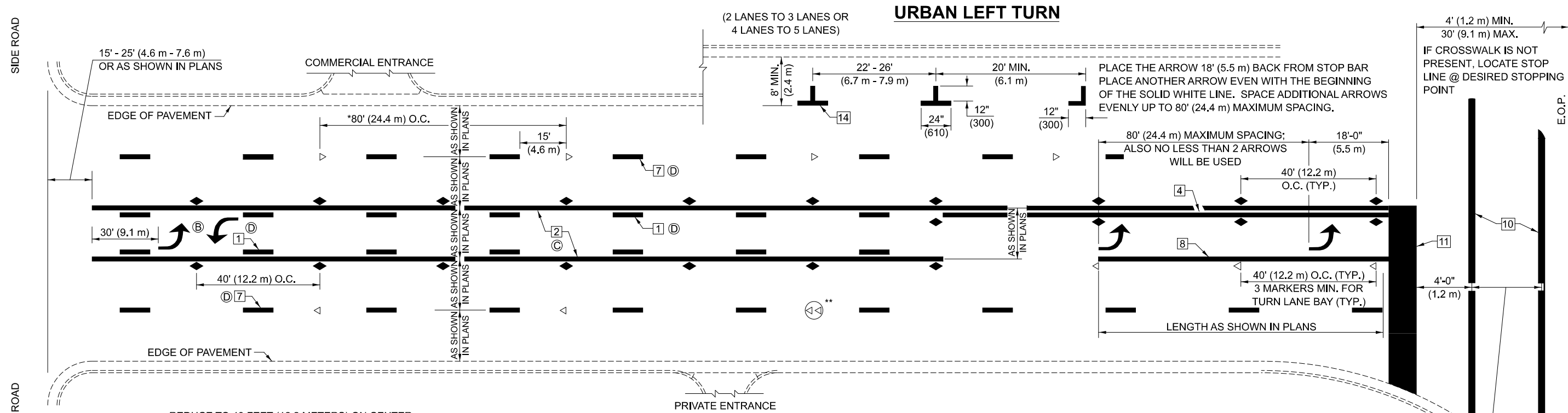
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	36
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

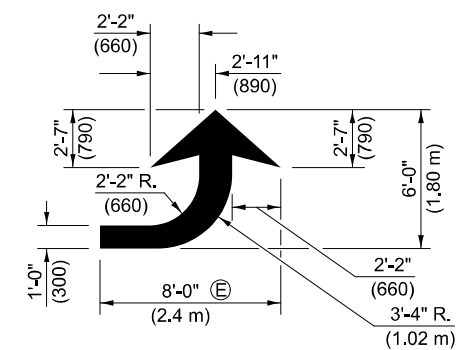
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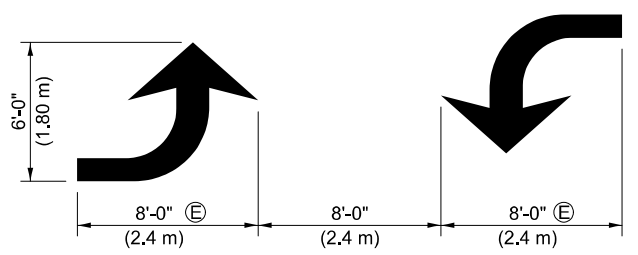
- * REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.
- ** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

GENERAL NOTES:

- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- (C) THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- (D) THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- (E) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

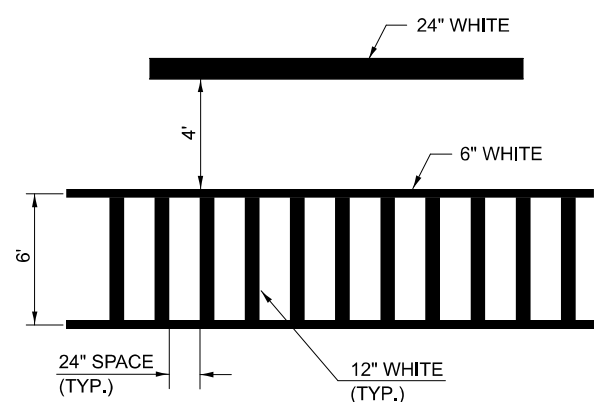


LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m)
(WHITE)

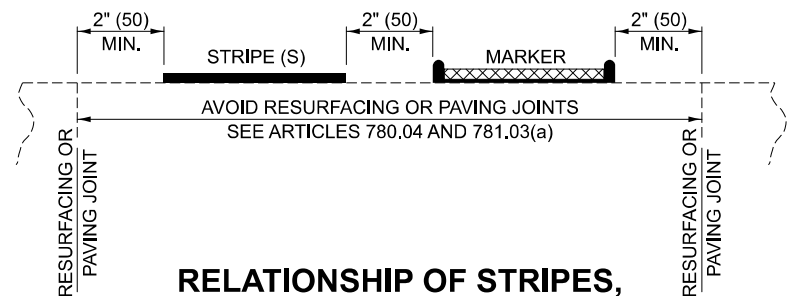


TYPICAL DOUBLE TURN ARROWS (WHITE)

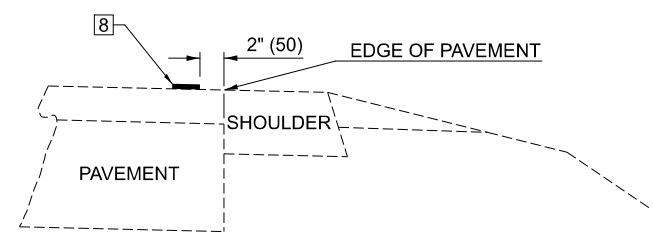
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 4/2014 JLA
	DRAWN -	REVISED - 3/2019 SWN
PLOT SCALE = 0.06333300' / in.	CHECKED -	REVISED - 8/2022 JLA
PLOT DATE = 12/7/2022	DATE -	REVISED - 9/2022 JWS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

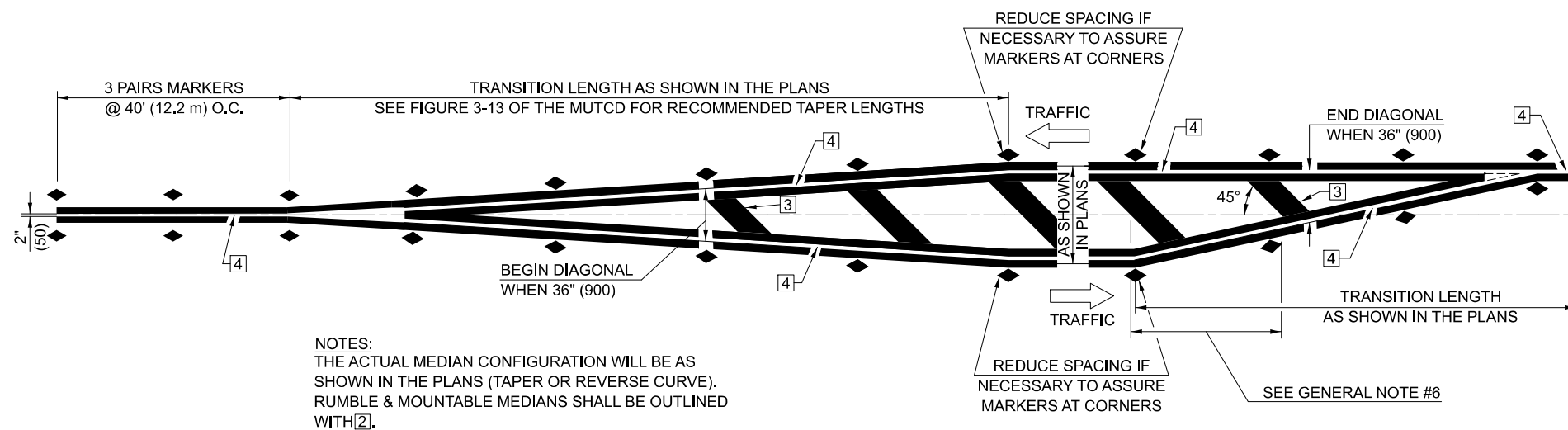
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Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

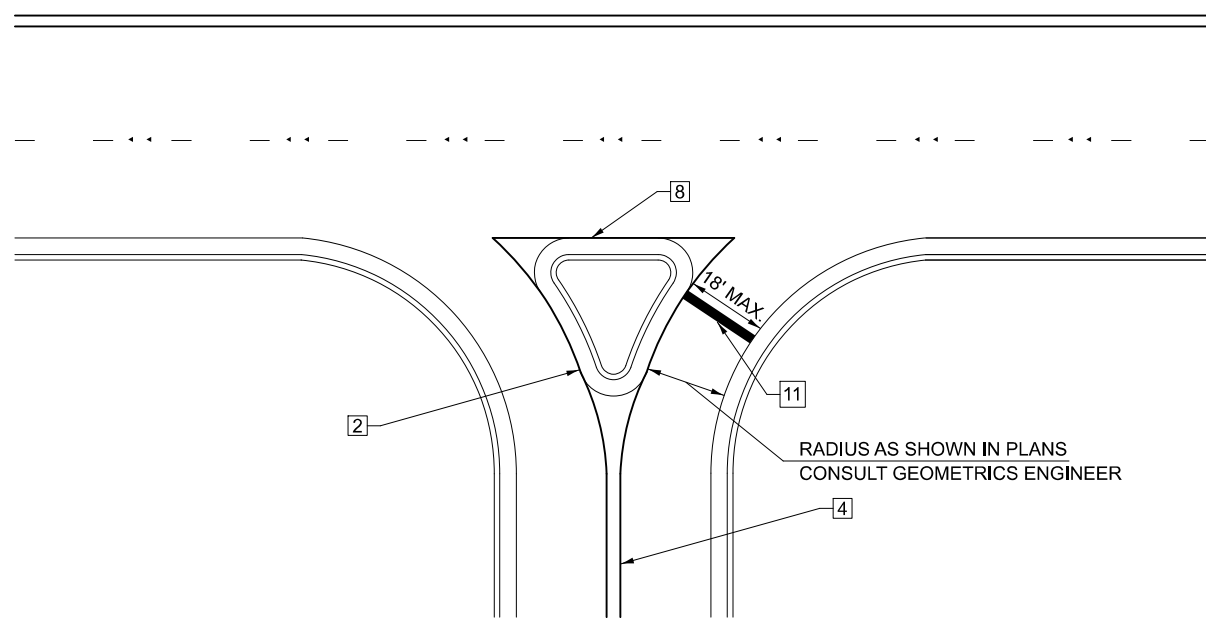
DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	37
			CONTRACT NO. 70574	
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

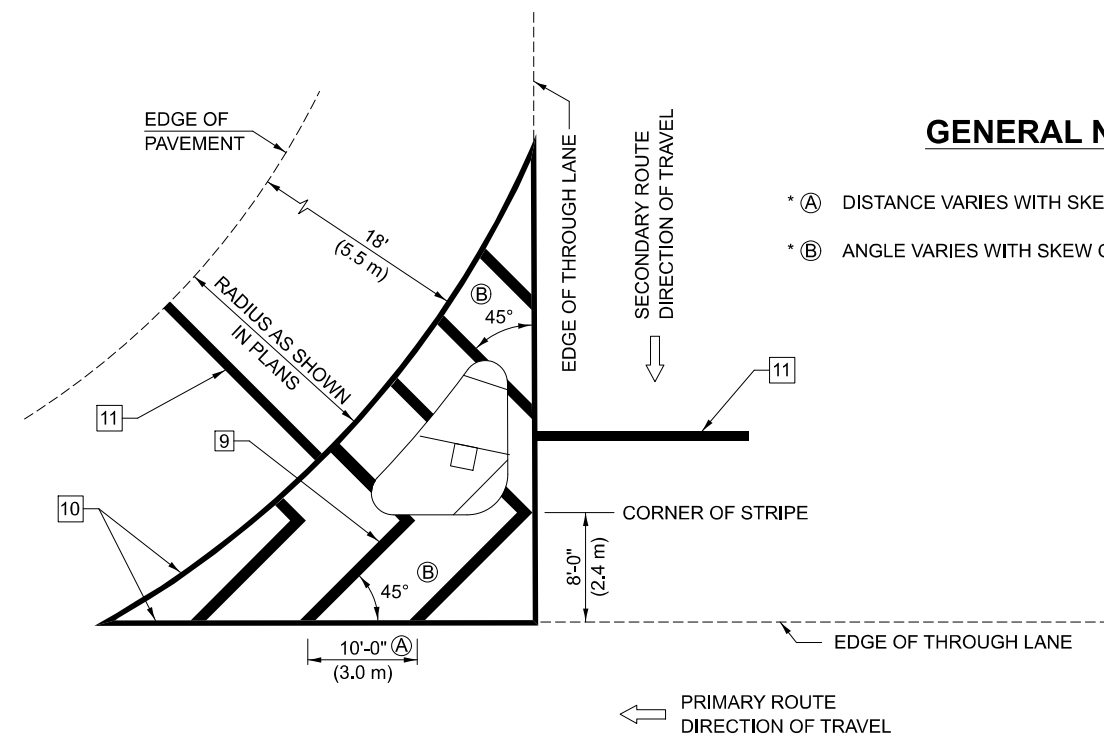
1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 - <30 MPH USE 15' (<50 km/h USE 4.5 m)
 - 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 - >45 MPH USE 30' (>75 km/h USE 9.0 m)



TYPICAL MEDIAN TRANSITIONS



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- * (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * (B) ANGLE VARIES WITH SKEW OF INTERSECTION.

ISLAND

* FOR RIGHT TURN LANE AND ISLAND STRIPING CONSULT GEOMETRICS ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

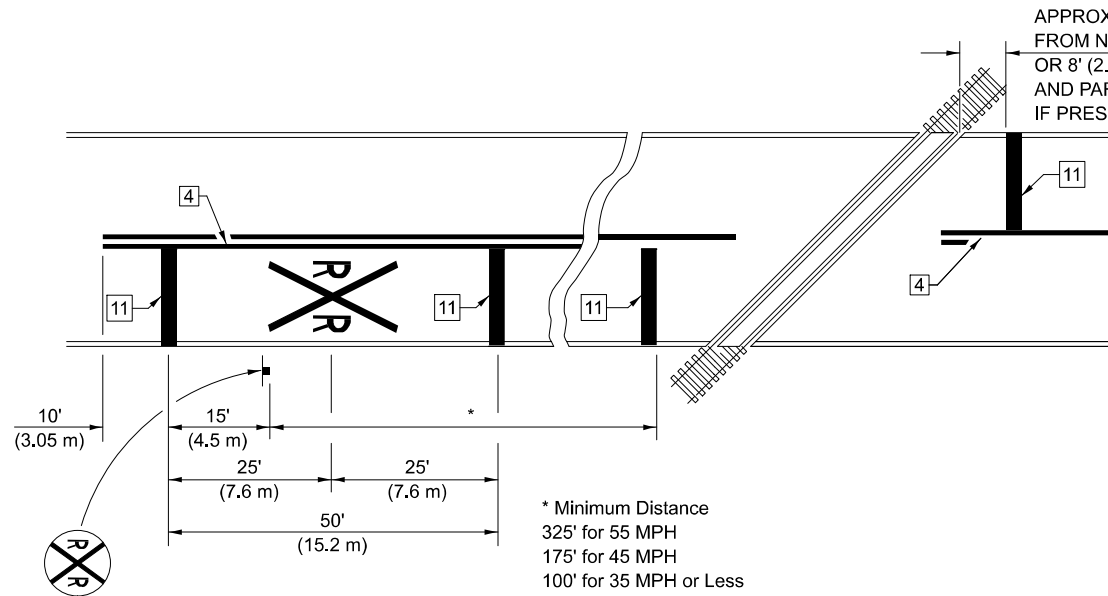
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	DRAWN -	REVISED - 3/2019 SWN
PLOT SCALE = 0.06333300" / in.	CHECKED -	REVISED - 8/2022 JLA
PLOT DATE = 12/7/2022	DATE -	REVISED - 9/2022 JWS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

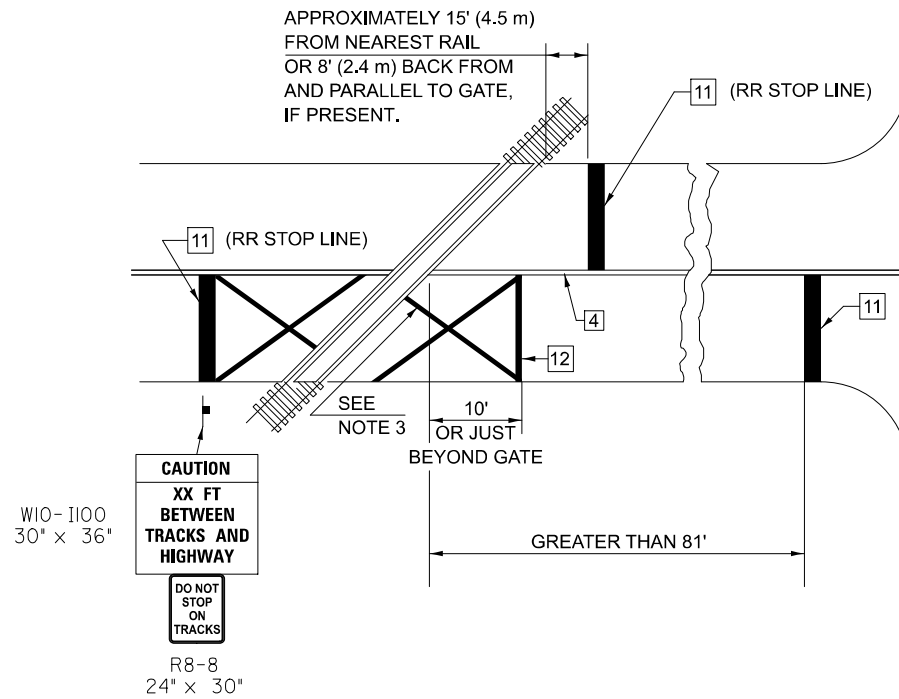
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	38
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

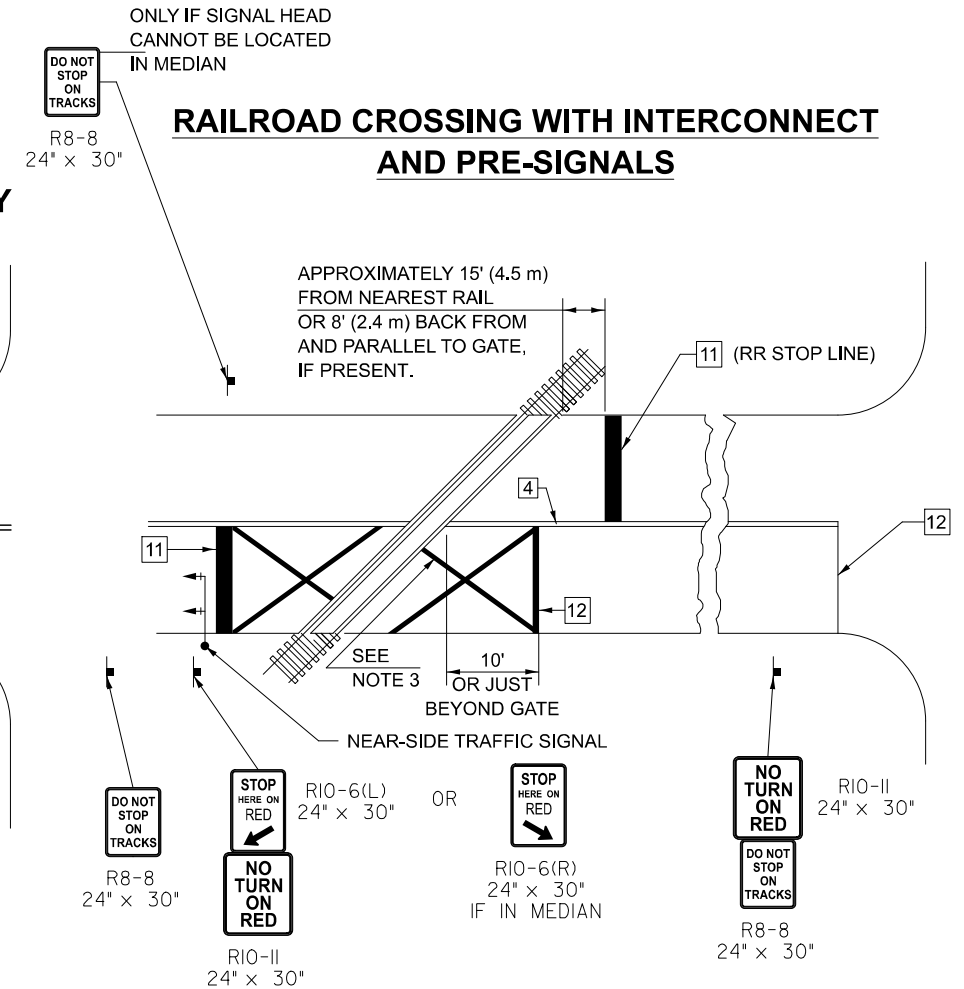


PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
4. XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

SUPPLEMENT PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

ALTERNATE SIGNS



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	39
				CONTRACT NO. 70574

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

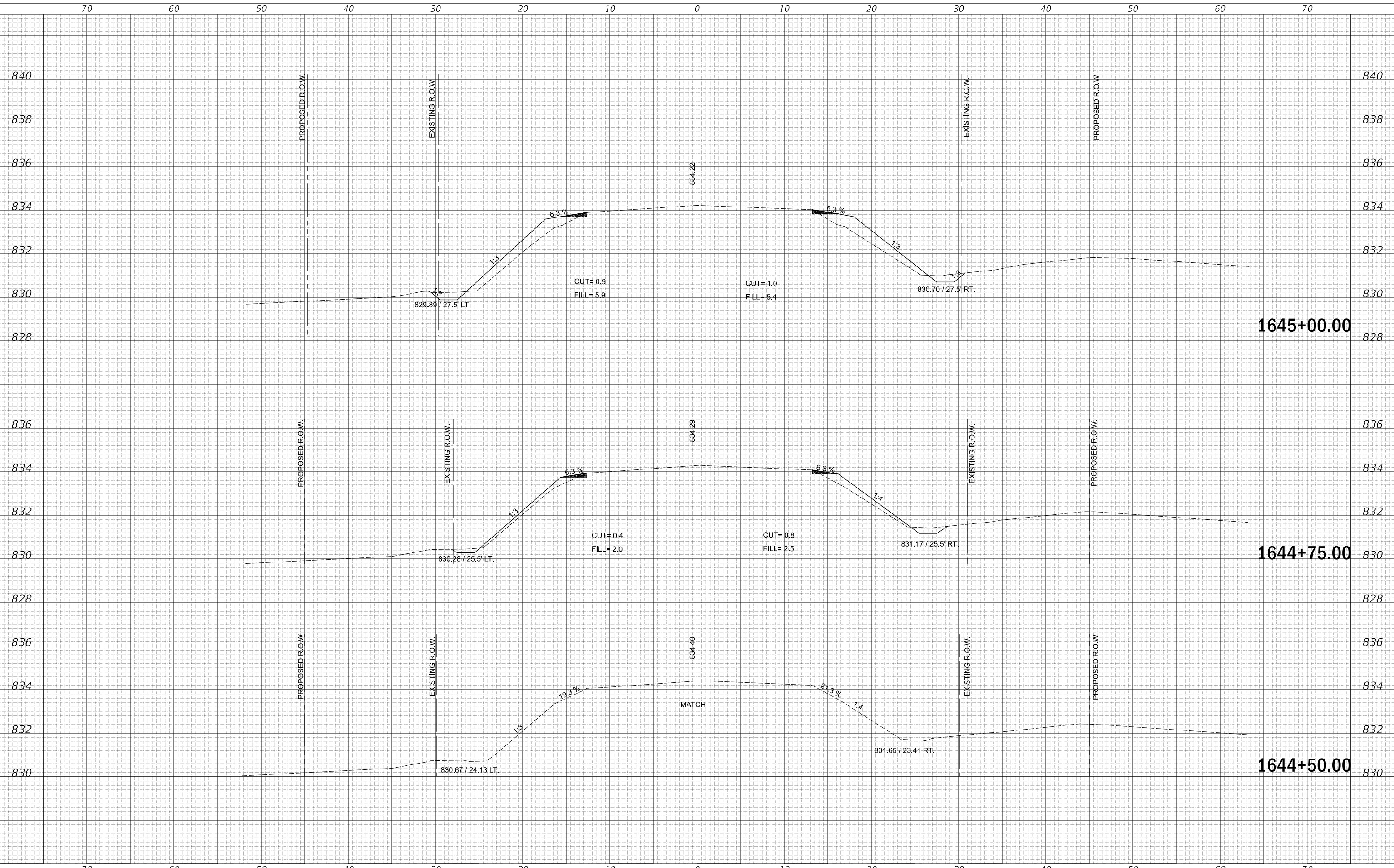
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 4/2014 JLA
	DRAWN -	REVISED - 3/2019 SWN
PLOT SCALE = 0.06333300' / in.	CHECKED -	REVISED - 8/2022 JLA
PLOT DATE = 12/7/2022	DATE -	REVISED - 9/2022 JWS

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

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

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USER NAME =	Bridgette.Pierson	DESIGNED -	REVISD -
		DRAWN -	REVISD -
PLOT SCALE =	0.5000 ' / in.	CHECKED -	REVISD -
PLOT DATE =	11/24/2025	DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

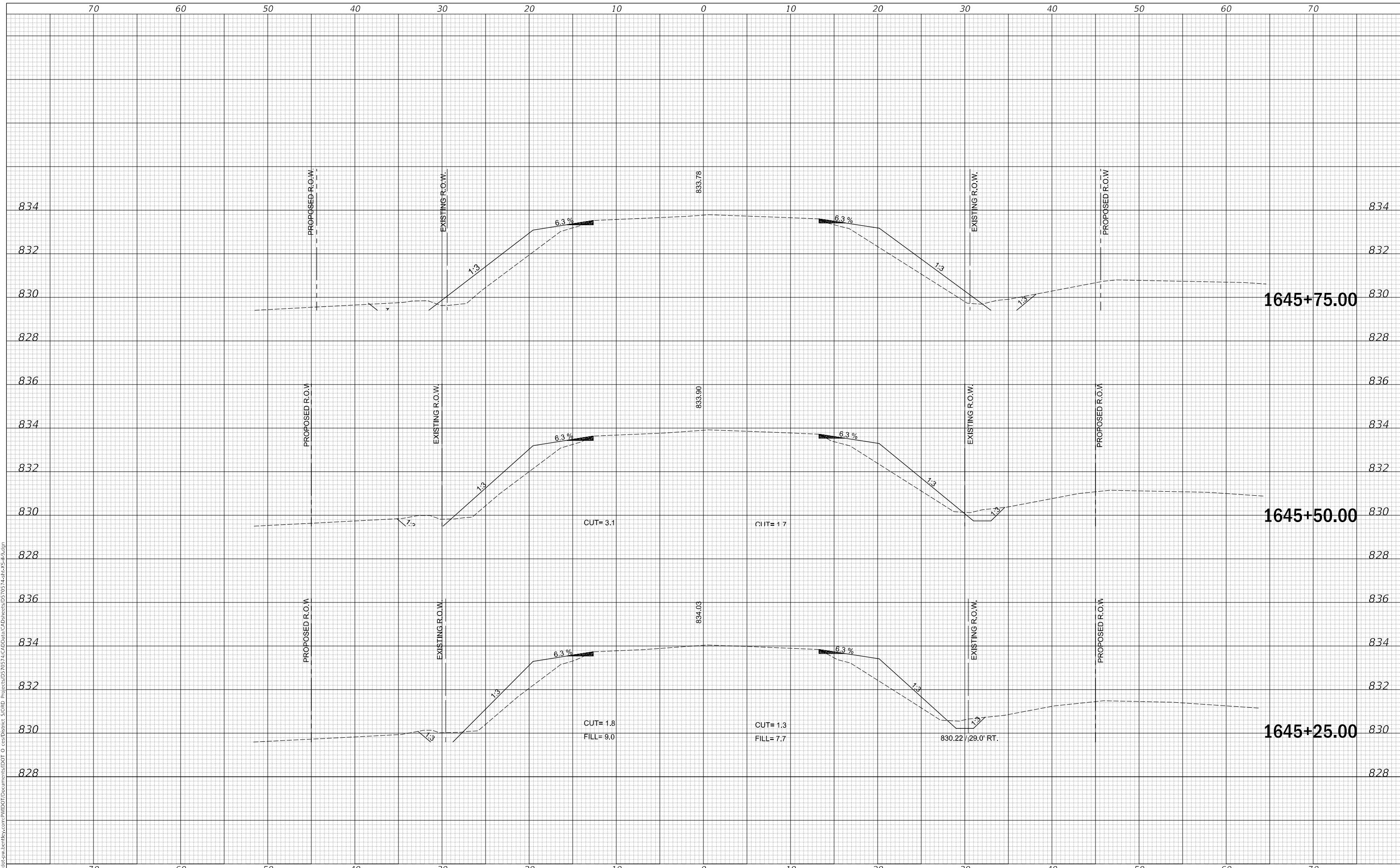
ROUTE 9 CROSS SECTIONS	
SCALE: 20	SHEET 1 OF 11 SHEETS
STA. 1644+50.00 TO STA. 1645+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	40
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: S:\06\1645\1645.MXD
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 PROJECT: 1645+25.00 TO 1645+75.00
 USER: bpierson



USER NAME =	Bridgette.Pierson	DESIGNED -	REVISED -
		DRAWN -	REVISED -
PLOT SCALE =	0.5000' / in.	CHECKED -	REVISED -
PLOT DATE =	11/24/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE 9 CROSS SECTIONS

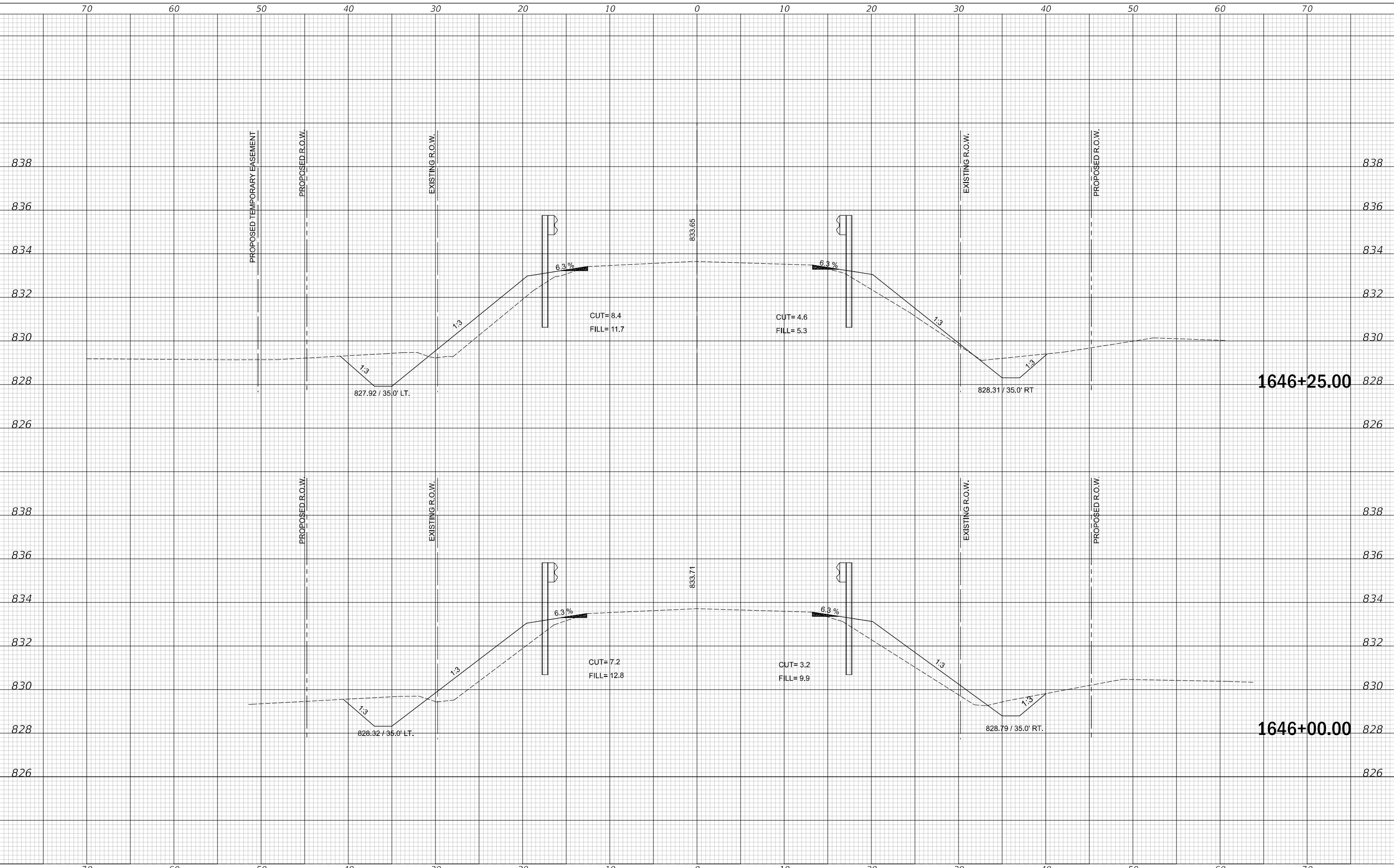
SCALE: 20 SHEET 2 OF 11 SHEETS STA. 1645+25.00 TO STA. 1645+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	41
				CONTRACT NO. 70574
		ILLINOIS	FED. AID PROJECT	

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

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

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 PROJECT: 1646+00.00 TO 1646+25.00
 USER: B.Pierson
 DATE: 11/24/2025



USER NAME = Biddette, Pierson	DESIGNED -	REVISED -
PLOT SCALE = 0.5000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/24/2025	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

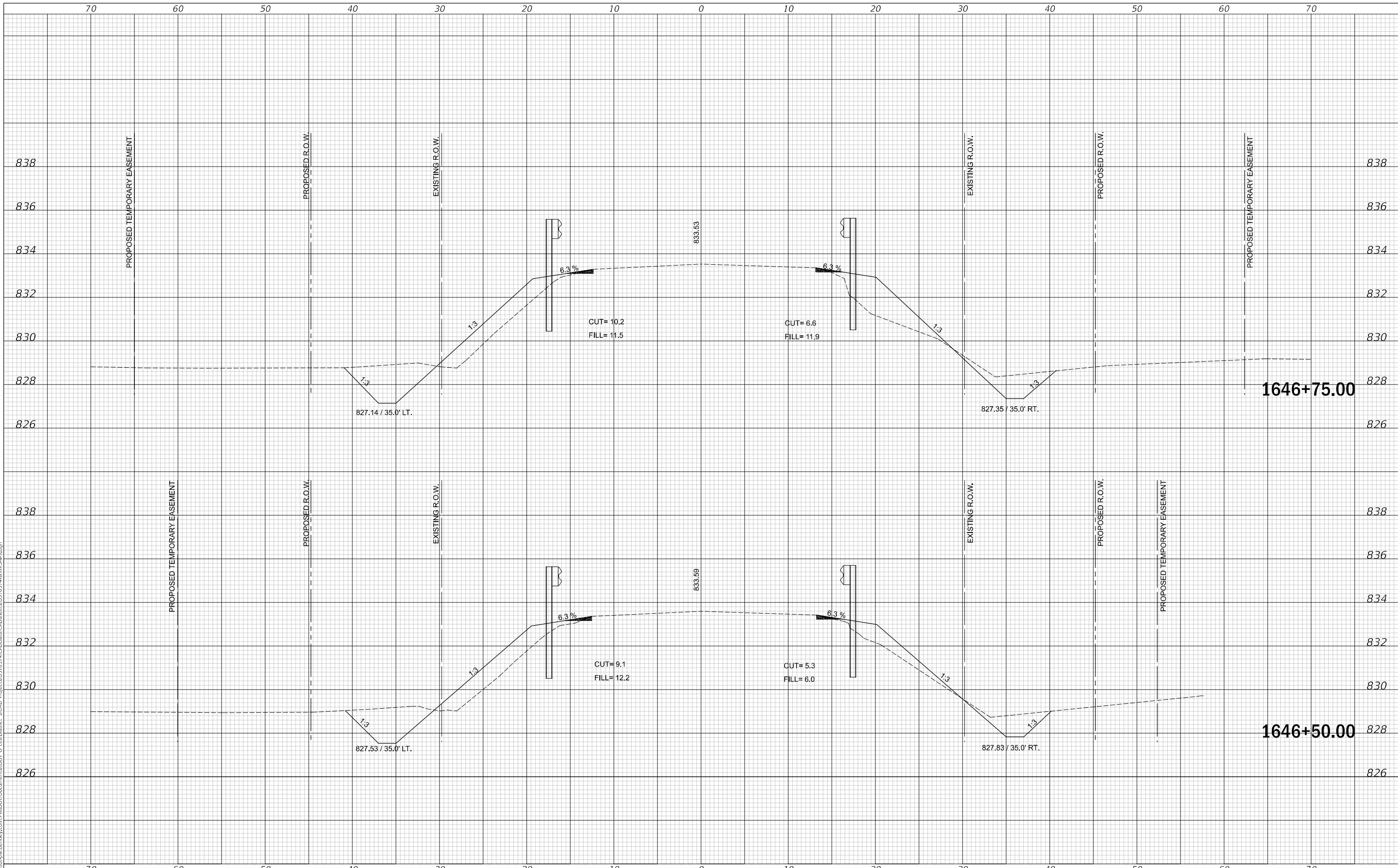
ROUTE 9 CROSS SECTIONS	
SCALE: 20	SHEET 3 OF 11 SHEETS
STA. 1646+00.00 TO STA. 1646+25.00	

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 42
CONTRACT NO. 70574				ILLINOIS FED. AID PROJECT

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

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

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USER NAME = Bridgette Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.5000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/24/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE 9 CROSS SECTIONS

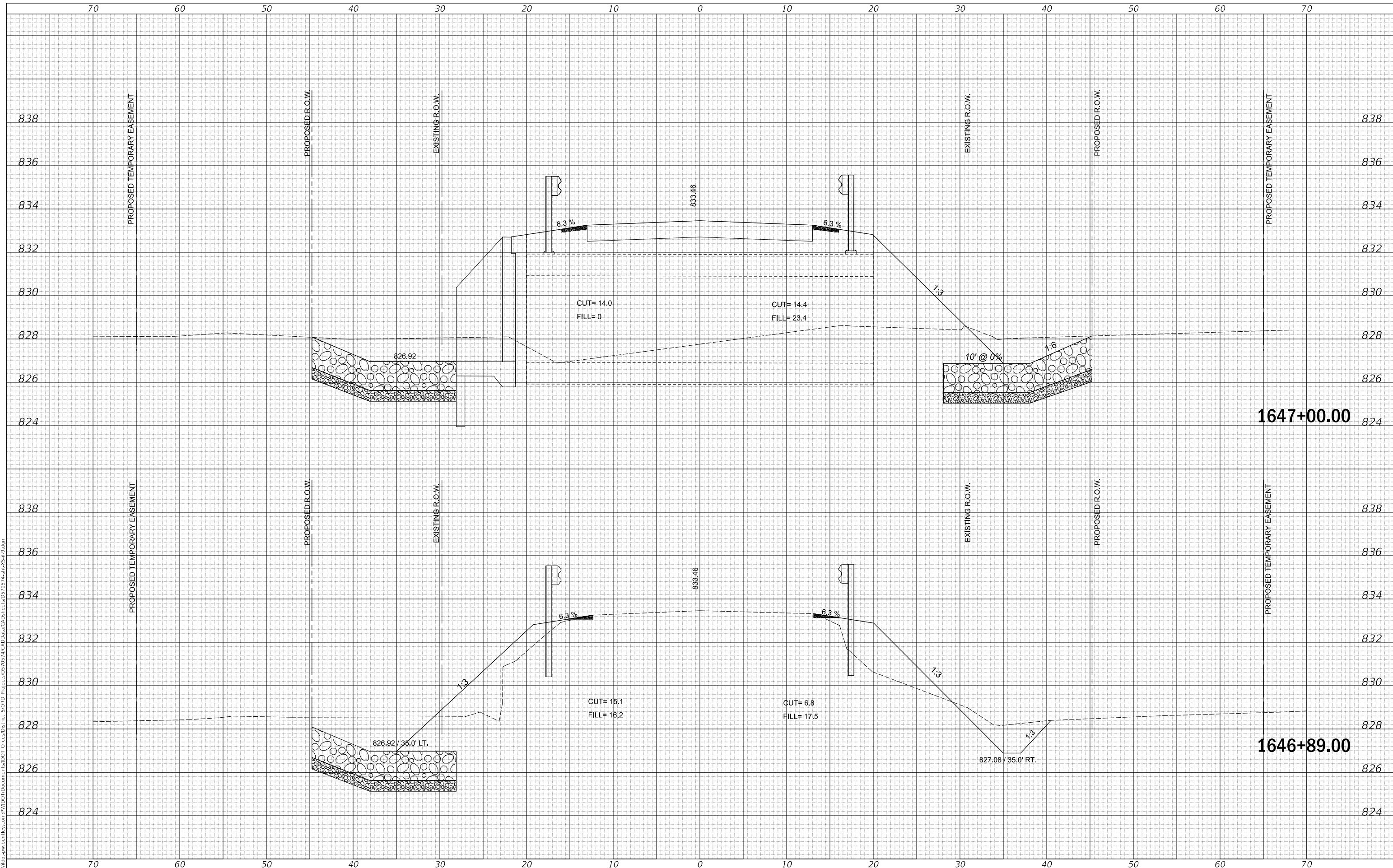
SCALE: 20 SHEET 4 OF 11 SHEETS STA. 1646+50.00 TO STA. 1646+75.00

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 43
			CONTRACT NO. 70574	
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = Bidgette, Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.5000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/24/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE 9 CROSS SECTIONS

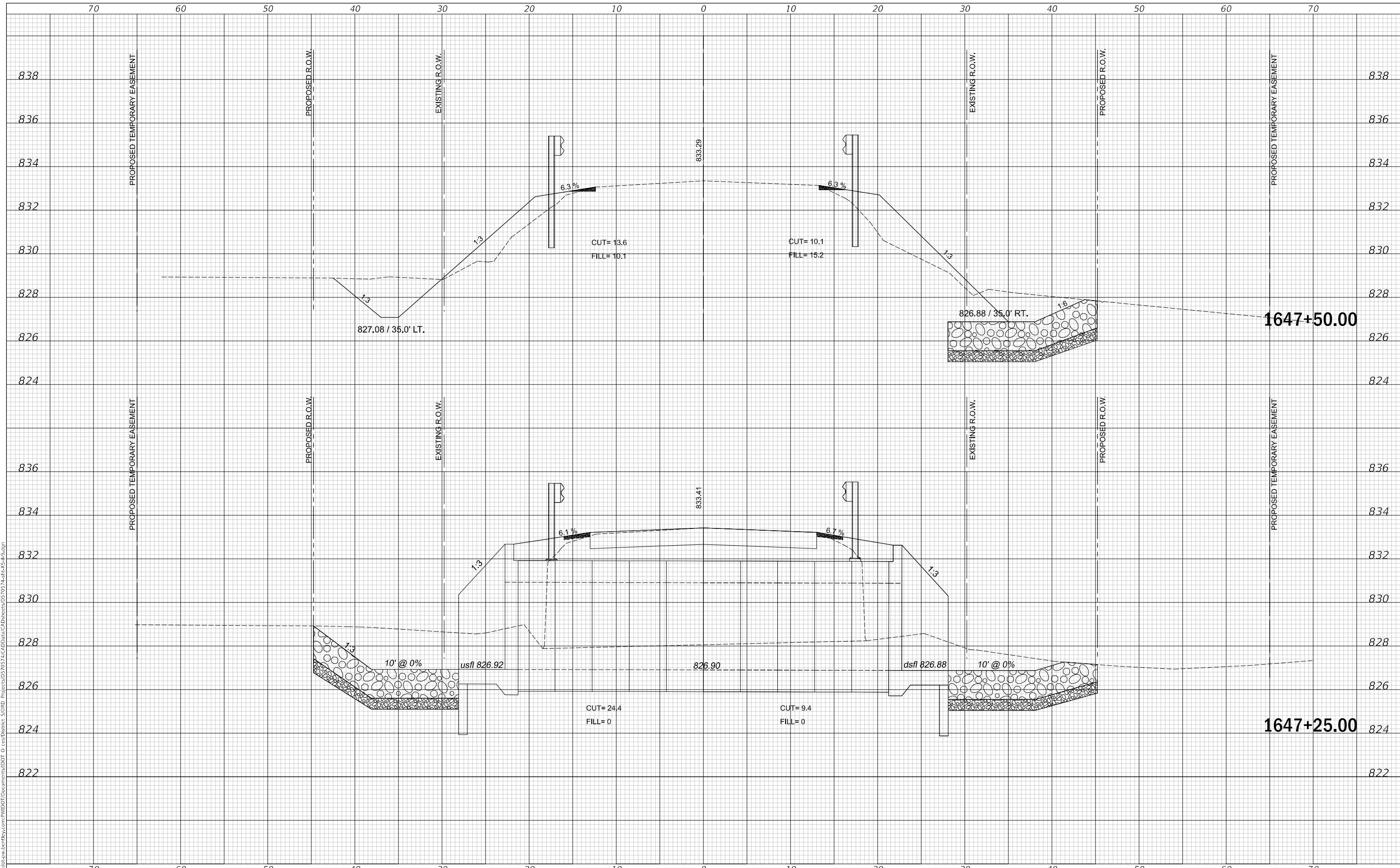
SCALE: 20 SHEET 5 OF 11 SHEETS STA. 1646+89.00 TO STA. 1647+00.00

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 44
			CONTRACT NO. 70574	
		ILLINOIS FED. AID PROJECT		

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

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

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USER NAME	= Biddette, Pierson	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 0.5000' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 11/24/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

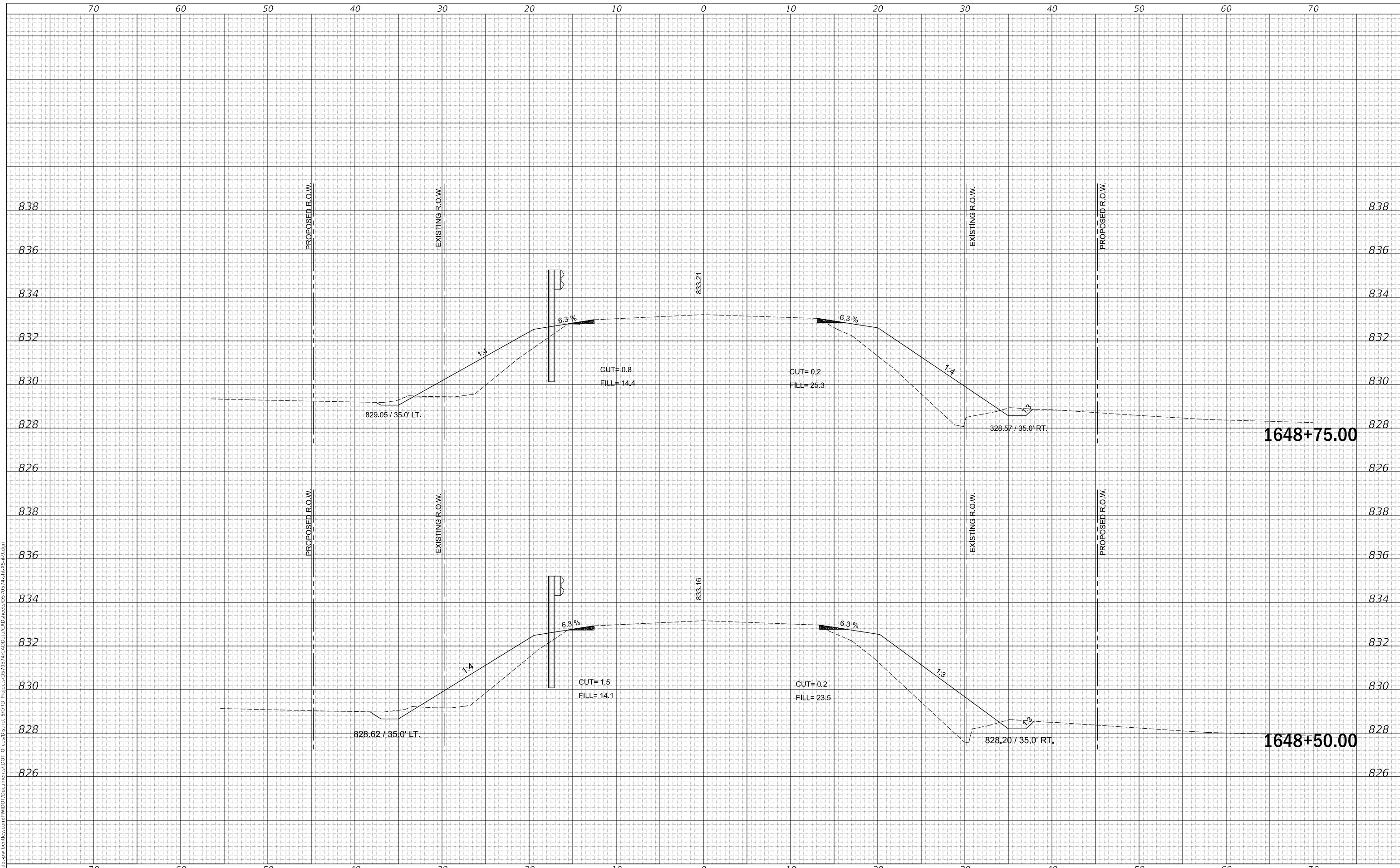
ROUTE 9 CROSS SECTIONS
 SCALE: 20 SHEET 6 OF 11 SHEETS STA. 1647+25.00 TO STA. 1647+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	45
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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 PROJECT: 21BR-2
 SHEET: 9 OF 11



USER NAME = Biddette, Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.5000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/24/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

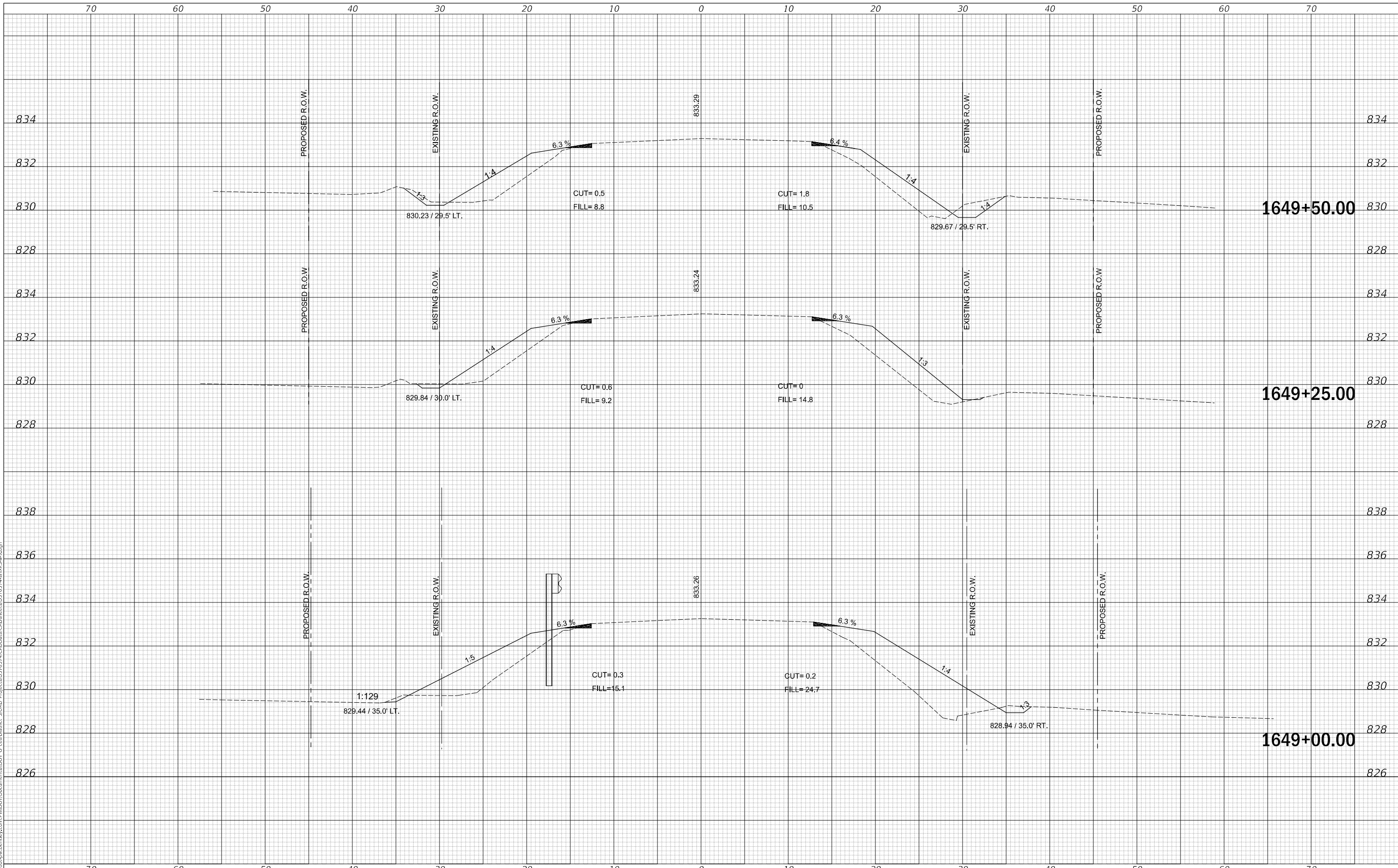
ROUTE 9 CROSS SECTIONS	
SCALE: 20	SHEET 9 OF 11 SHEETS
STA. 1648+50.00 TO STA. 1648+75.00	

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 48
CONTRACT NO. 70574				ILLINOIS FED. AID PROJECT

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

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

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USER NAME	= Bridgette.Pierson
DESIGNED	-
DRAWN	-
PLLOT SCALE	= 0.5000 ' / in.
PLLOT DATE	= 11/24/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE 9 CROSS SECTIONS

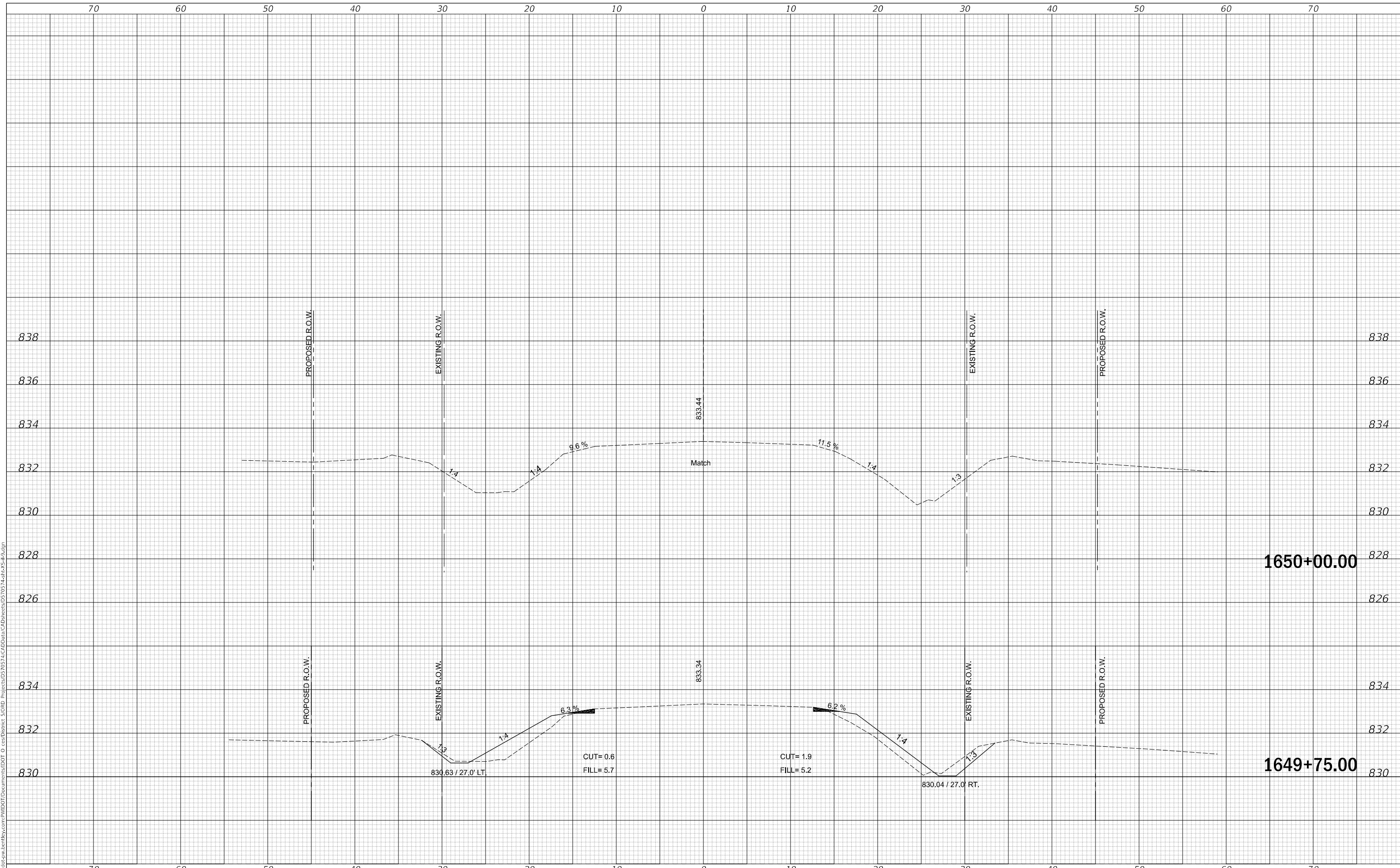
SCALE: 20 SHEET 10 OF 11 SHEETS STA. 1649+00.00 TO STA. 1649+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	21BR-2	MCLEAN	50	49
CONTRACT NO. 70574				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = Bidgette, Pierson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.5000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/24/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE 9 CROSS SECTIONS

SCALE: 20 SHEET 11 OF 11 SHEETS STA. 1649+75.00 TO STA. 1650+00.00

F.A.P. RTE. 693	SECTION 21BR-2	COUNTY MCLEAN	TOTAL SHEETS 50	SHEET NO. 50
CONTRACT NO. 70574			ILLINOIS FED. AID PROJECT	