06-13-2025 LETTING ITEM 032

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	1
	ILLINOIS	CONTRACT NO. 64M76		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAP ROUTE 694 (US 52)
SECTION 75CR

CULVERT REPLACEMENT – 0.3 MILE SOUTH OF US 30 LOCATED NORTH OF AMBOY
LEE COUNTY

C–92–041–23

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRUCK ROUTE DESIGNATION:
CLASS II TRUCK ROUTE

HIGHWAY CLASSIFICATION:
FAP 694 (US 52)
MINOR ARTERIAL
PV: = 3,780
SU = 165
MU = 210
DESIGN SPEED: 60 MPH+
POSTED SPEED: 55 MPH

TOWNSHIP INFORMATION;
AMBOY; R10E, T20N
(SECTION 3)

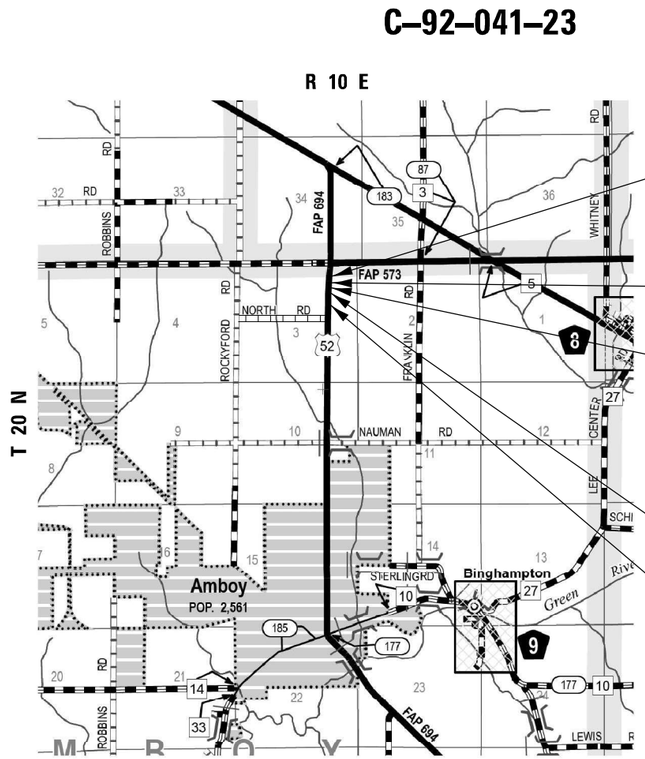
0 100′ 200′ 300′ — 1″ = 100′
0 10′ 20′ 30′ — 1″ = 10′
0 50′ 100′ — 1″ = 50′
0 50′ 100′ — 1″ = 40′
0 50′ 100′ — 1″ = 30′
0 50′ 100′ — 1″ = 20′

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

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

PROJECT ENGINEER: CHAD SPREEMAN
PROJECT MANAGER: CHRIS CONDERMAN (815) 284–5955
E–MAIL: CHRISTOPHER.CONDERMAN@ILLINOIS.GOV

CONTRACT NO. 64M76



LOCATION MAP

0 0.5 1.0 2.0 MILES
SCALE

PROJECT GROSS LENGTH = 500 FT. = 0.095 MILE
PROJECT NET LENGTH = 500 FT. = 0.095 MILE

IMPROVEMENT BEGINS
STA. 833 + 00.00

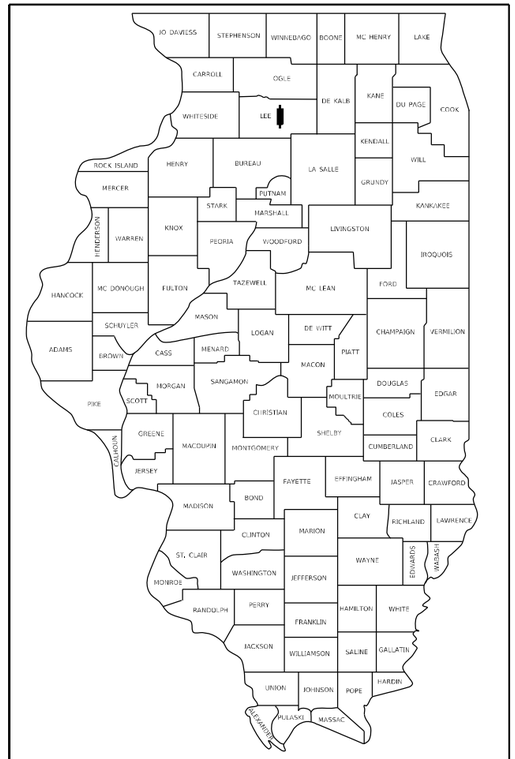
PROJECT BEGINS
STA. 835 + 46.00

STATION 835 + 76.00
PROPOSED CULVERT REPLACEMENT
(EXISTING DOUBLE 24″ CMP'S, EXISTING S.N. 052–1150; REPLACED WITH PROPOSED 8′W X 4′W PRECAST CONCRETE BOX CULVERT, PROPOSED S.N. 052–1154)

PROJECT ENDS
STA. 835 + 96.00

IMPROVEMENT ENDS
STA. 838 + 00.00

D–92–021–18



LOCATION OF SECTION INDICATED THUS: –

JOHN C. NEGANGARD
062-047264
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
5/27/25
EXPIRES 11/30/25

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
403 NORTH COURT STREET MARION, IL 62959 PHONE - 618.997.9190
421 S. GRAND AVENUE WEST SPRINGFIELD, IL 62704 PHONE - 217.679.8254
907 ARROW ROAD, SUITE2 CHAMPAIGN, IL 61821 PHONE - 217.530.4283
WWW.BFWENGINEERS.COM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 6 20 25
Trisha Thompson
REGIONAL ENGINEER

May 9 20 25
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 25
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 4/8/25 REV. 3/27/25

INDEX OF SHEETS, & HIGHWAY STANDARDS

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13-15	SCHEDULE OF QUANTITIES
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18	RIGHT OF WAY PLAN
19	EROSION AND SEDIMENT CONTROL PLAN
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	WORK ZONE SIGNING DETAILS (34.1)
	TYPICAL PAVEMENT MARKINGS (41.1)
44-50	CROSS-SECTIONS

LIST OF HIGHWAY STANDARDS

STD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
442101-09	CLASS B PATCHES
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15"(375MM) THRU 84"(2100MM) DIA.
602401-07	PRECAST MANHOLE TYPE A 4' (1.22M) DIAMETER
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
635001-02	DELINEATORS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24'' (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

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USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 2/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
INDEX OF SHEETS & HIGHWAY STANDARDS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	2
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS A MINIMUM OF 5 WORKING DAYS PRIOR TO PLACING PERMANENT PAVEMENT MARKING OR SIGNING.

2. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1A. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.

3. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.

4. PLACEMENT AND COMPACTION OF THE BACKFILL FOR THE PROPOSED ACROSS ROAD CULVERTS AND EXISTING ACROSS ROAD CULVERTS THAT ARE REMOVED, SHALL CONFORM TO ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE MATERIAL, EITHER PRODUCTION AGGREGATE OR EXCAVATED MATERIAL, SHALL CONFORM TO ARTICLE 208.02 OF THE STANDARD SPECIFICATIONS, AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE TOP ONE FOOT OF TRENCH BACKFILL SHALL BE GRADATION CA06 OR CA10, BENEATH THE PROPOSED PAVEMENT/PATCH.

   THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED PAVEMENT/PATCH. IMPERVIOUS MATERIAL SHALL BE USED ON THE OUTER 3 FEET AT EACH END OF THE CULVERT.

   THE TRENCH BACKFILL MATERIAL WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 502.12, NOT TO EXCEED 2 FEET OUTSIDE THE STRUCTURE.

5. CLOSED EXPANSION JOINTS ON JOINTED PAVEMENTS SHALL BE RE-ESTABLISHED DURING THE PATCHING OPERATIONS. CLASS B PATCHES - WHEN THE PAVEMENT REQUIRES PATCHING AT THE LOCATION OF THE EXPANSION JOINT, A NEW JOINT SHOULD BE ESTABLISHED USING A DOWELLED EXPANSION PATCH AS SHOWN ON HIGHWAY STANDARD 442101. WHEN THE JOINT IS CLOSED, BUT DOES NOT REQUIRE PATCHING, AN EXPANSION JOINT MAY BE FORMED BY SAWING THE PAVEMENT AND FILLING THE SAW CUT WITH A PREFORMED EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF SECTION 1051 OF THE STANDARD SPECIFICATIONS AS SHOWN ON STANDARD 420001.

6. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION AND MIXTURE USE(S):			
	SURFACE		
PG:			
DESIGN AIR VOIDS:	4.0 @ N50		
MIXTURE COMPOSITION:	IL 9.5		
FRICTION AGGREGATE:	"C"		
MIXTURE WEIGHT:	112 LBS/SY-IN		
QUALITY MANAGEMENT PROGRAM:	QC/QA		
SUBLOT SIZE:	N/A		
MATERIAL TRANSFER DEVICE	N/A		

7. THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

8. THE NEW NUMBER FOR THIS STRUCTURE WILL BE S.N. 052-1154.

GENERAL NOTES CONTINUED

9. THE BORING LOGS FOR THIS STRUCTURE INDICATE THAT GROUNDWATER LEVELS MAY ENCROACH ON THE CONSTRUCTION LIMITS OF THIS CULVERT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL THE GROUND WATER AND DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREA FREE OF WATER. THE METHOD OF CONTROLLING THE WATER SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRECAST CONCRETE BOX CULVERTS.

10. CULVERT AND BRIDGE FLOWS MUST BE MAINTIANED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

11. DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180 AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED. DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.

13. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

    1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
    2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
    3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
    4. CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

14. PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1 MILE OR AS DIRECTED BY THE ENGINEER. BRIDGE OR CULVERT PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE. ESTIMATED: 1 EACH.

15. PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2, OR ANOTHER OPTION WOULD BE TO INSTALL A VAULTED STYLE MONUMENT AS DESCRIBED BY NGS AS A 3D MONUMENT (TOP SECURITY SLEEVE ROD MONUMENT), WITH INSTALLATION INSTRUCTIONS PROVIDED BY THE DISTRICT CHIEF OF SURVEYS. IF POURED IN PLACE, THE BOTTOM OF THE MARKER SHALL BE 5'-0" BELOW THE GROUND SURFACE.

16. THE PERMANENT SURVEY MARKERS, IF POSSIBLE, SHALL BE INSTALLED AT THE BEGINNING OF THE JOB AND PROTECTED THROUGHOUT.

17. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED USING AN ELECTRONIC LEVEL. THE META DATA, SUCH AS THE GEOID USED, (NGS ADJUSTMENT IE: 97 HARN, 03, 07), AND THE BASE POINT(S) NAME OR NUMBER SHALL BE SUBMITTED ALONG WITH A COMPLETE COLLECTION LOG. IF COLLECTED USING RTK METHOD, IT WILL REQUIRE EITHER 3 COLLECTIONS (AVERAGED) FROM 2 DIFFERENT BASES, OR A MINIMUM OF 3 COLLECTIONS (AVERAGED), AT LEAST 2 HOURS APART, FROM THE SAME BASE. IF USING A CORS TYPE NETWORK, THE COLLECTION PROCEDURE SHALL INCLUDE LOCALIZING WITH CHECK SHOTS ON AT LEAST 2 DIFFERENT HARN MONUMENTS BOTH BEFORE AND AFTER COLLECTION. THE LEVEL CIRCUIT SHALL BE RUN FROM FURNISHED MARK TO FURNISHED MARK AND THEN ADJUSTED. THE ERROR OF CLOSURE SHALL BE SUBMITTED WITH THE ELECTRONIC LEVEL NOTES IN A RECOGNIZED FORMAT APPROVED BY THE ENGINEER AND/OR THE CHIEF OF SURVEYS. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE DISTRICT CHIEF OF SURVEYS.

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 52 GENERAL NOTES			
		DRAWN -	REVISED -					
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					
	PLOT DATE = 2/14/2025	DATE -	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	3
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

GENERAL NOTES CONTINUED

18. RIGHT-OF-WAY MARKERS WILL BE ERECTED PER HIGHWAY STANDARD 666001 WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE, UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHT-OF-WAY MARKERS WILL BE ERECTED 12 INCHES INSIDE THE NEW RIGHT-OF-WAY LINE. THE METHOD OF INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

19. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

TYPE	COMPANY	ADDRESS	CONTACT	PHONE
CA TV	COMCAST	4450 KISHWAUKEE STREET, ROCKFORD, IL 61109	TOM YUCCAS	(815) 509-8653
COMMUNICATIONS	iFIBER	348 SWANSON ROAD, SYCAMORE, IL 60178	LANCE SANDY	(815) 753-5798
TELEPHONE	FRONTIER (NORTH)	111 SOUTH MAIN STREET, KEWANEE, IL 61443	JASON KLEIN	(309) 853-6297
COMMUNICATIONS	LEVEL 3 LUMEN/ CENTURY LINK	71 CLINTON ROAD, GARDEN CITY, NJ 11530	DAVID VEGA	(516) 265-1764
ELECTRIC	COMMONWEALTH EDISON	1 LINCOLN CENTER, OAKBROOK TERRACE, IL 60181	VINCENT MAZZAFERRO	(779) 231-1027
PETROLEUM	MAGELLAN MIDSTREAM PARTNERS	1 WILLIAMS CENTER (MD27-2), TULSA, OK 74172	JIM RYAN	(918) 753-1005
TELEPHONE	MC/ WORLD COM	2400 N. GLENVILLE (DEPT 41103/107), RICHARDSON, TX 75082	DEAN BOYERS	(972) 729-6016
COMMUNICATIONS	ADESTA	2000 BLOOMINGTON RD (UNIT 245), GLENDALE HEIGHTS, IL 60139	BOB SULLIVAN	(630) 272-9245
TELEPHONE/FO	METRO COMMUNICATIONS/ CONXXUS	8 S. WASHINGTON STREET, SUITE 200, SULLIVAN, IL 61951	TAYLOR RICH	(217) 728-3608

IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.

20. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

21. WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

22. THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:

    STAGE I 835+46 TO 835+96
    STAGE II 835+46 TO 835+96

    THE 2 BARRIERS BEFORE & AFTER THE ABOVE LOCATIONS SHALL BE PINNED AS DESCRIBED IN ARTICLE 704.04 TO PROVIDE A TRANSITION FROM THE PINNED TO UNPINNED BARRIER.

    THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.

23. ALL BORROW / WASTE / USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHWORK ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

24. THE NEW MANHOLE LIDS ON THIS PROJECT SHALL HAVE THE WORD “STORM” ON THE LID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

25. THE CONTRACTOR SHALL DETERMINE/CONFIRM THE FLOWLINES OF EXISTING SEWER LINES BEFORE ORDERING INLETS & MANHOLES.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP CONSTR. CODE 100% STATE ROADWAY 0004 RURAL
20200100	EARTH EXCAVATION	CU YD	740	740
20800150	TRENCH BACKFILL	CU YD	144	144
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3933	3933
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100	100
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
25000310	SEEDING, CLASS 4	ACRE	0.5	0.5
25000750	MOWING	ACRE	0.75	0.75
25100125	MULCH, METHOD 3	ACRE	1.0	1.0
25100630	EROSION CONTROL BLANKET	SQ YD	717	717
25100900	TURF REINFORCEMENT MAT	SQ YD	250	250
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	20	20
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	342	342
28000305	TEMPORARY DITCH CHECKS	FOOT	100	100
28000400	PERIMETER EROSION BARRIER	FOOT	500	500

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP CONSTR. CODE 100% STATE ROADWAY 0004 RURAL
	28000500	INLET AND PIPE PROTECTION	EACH	1	1
	28001000	AGGREGATE (EROSION CONTROL)	TON	30	30
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	60	60
	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	23	23
	44200050	WELDED WIRE REINFORCEMENT	SQ YD	134	134
	44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	134	134
	44201299	DOWEL BARS 1 1/2"	EACH	40	40
	44213200	SAW CUTS	FOOT	122	122
	44213204	TIE BARS 3/4"	EACH	17	17
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	354	354
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1
*	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	78	78
	50800105	REINFORCEMENT BARS	POUND	70	70
	51500100	NAME PLATES	EACH	1	1

*= SPECIALTY ITEM

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
SUMMARY OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	6
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

REV. 5/12/25REV. 4/8/25

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP CONSTR. CODE 100% STATE ROADWAY 0004 RURAL
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	504	504
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54010804	PRECAST CONCRETE BOX CULVERTS 8' X 4'	FOOT	60	60
54248510	CONCRETE COLLAR	CU YD	1.4	1.4
54261424	CONCRETE END SECTION, STANDARD 542001, 24", 1:4	EACH	1	1
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	31	31
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	64	64
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60500060	REMOVING INLETS	EACH	1	1
61100605	MISCELLANEOUS CONCRETE	CU YD	3	3
61101013	STORM SEWERS PROTECTED, CLASS A, 12 "	FOOT	150	150
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	2
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	100	100
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	100	100

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USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
SUMMARY OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	7
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

REV. 4/8/25

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP CONSTR. CODE 100% STATE ROADWAY 0004 RURAL
63500105	DELINEATORS	EACH	4	4
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	10	10
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	136	136
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1028	1028
70307120	TEMPORARY PAVEMENT MARKING - LINE 4"- TYPE IV TAPE	FOOT	2804	2804

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
SUMMARY OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	8
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

REV. 4/8/25

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP CONSTR. CODE 100% STATE ROADWAY 0004 RURAL
	70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	24	24
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350
	70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	36	36
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	70600350	IMPACT ATTENUATORS, RELOCATE (NON=REDIRECTIVE), TEST LEVEL 3	EACH	2	2
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3962	3962
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	403	403
	X2810110	STONE RIPRAP, CLASS A5 (SPECIAL)	SQ YD	100	100
	X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	434	434
	X5510100	STORM SEWER REMOVAL	FOOT	150	150
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
*	Z0025505	PROPERTY MARKERS	EACH	4	4
*	Z0054400	ROCK FILL	CU YD	78	78

*= SPECIALTY ITEM

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP CONSTR. CODE 100% STATE ROADWAY 0004 RURAL
Z0062456	TEMPORARY PAVEMENT	SQ YD	434	434

SPECIALTY ITEM

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

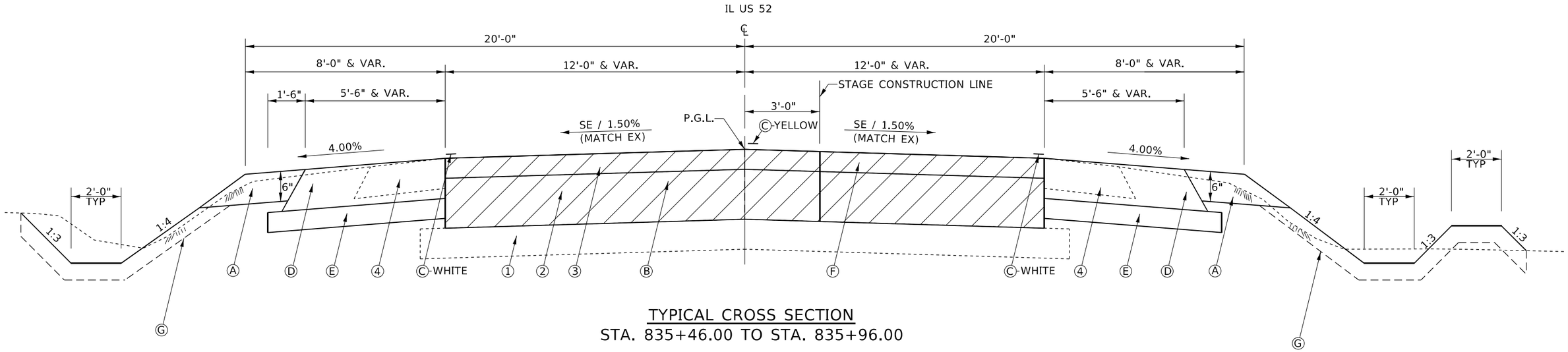
US 52
SUMMARY OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	10
		CONTRACT NO. 64M76		
	ILLINOIS FED. AID PROJECT			

REV. 4/8/25

TYPICAL SECTION



TYPICAL CROSS SECTION
STA. 835+46.00 TO STA. 835+96.00

LEGEND

① EXISTING SUBBASE GRANULAR MATERIAL

② EXISTING P.C.C. PAVEMENT, 10"

③ EXISTING HMA BINDER/SURFACE COURSE, ±3"

④ EXISTING AGGREGATE SHOULDER, TYPE B

PAVEMENT REMOVAL

Ⓐ AGGREGATE SHOULDERS, TYPE B

Ⓑ PAVEMENT PATCH, CLASS B, TYPE IV, 10"

Ⓒ PAVEMENT MARKING - LINE 4"

Ⓓ TEMPORARY PAVEMENT (FILL THE VOID AFTER REMOVAL W/ AGGREGATE SHOULDERS, TYPE B)

Ⓔ SUBBASE GRANULAR MATERIAL, TYPE B

Ⓕ 3" HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N 50

Ⓖ TOPSOIL FURNISH AND PLACE, 4"

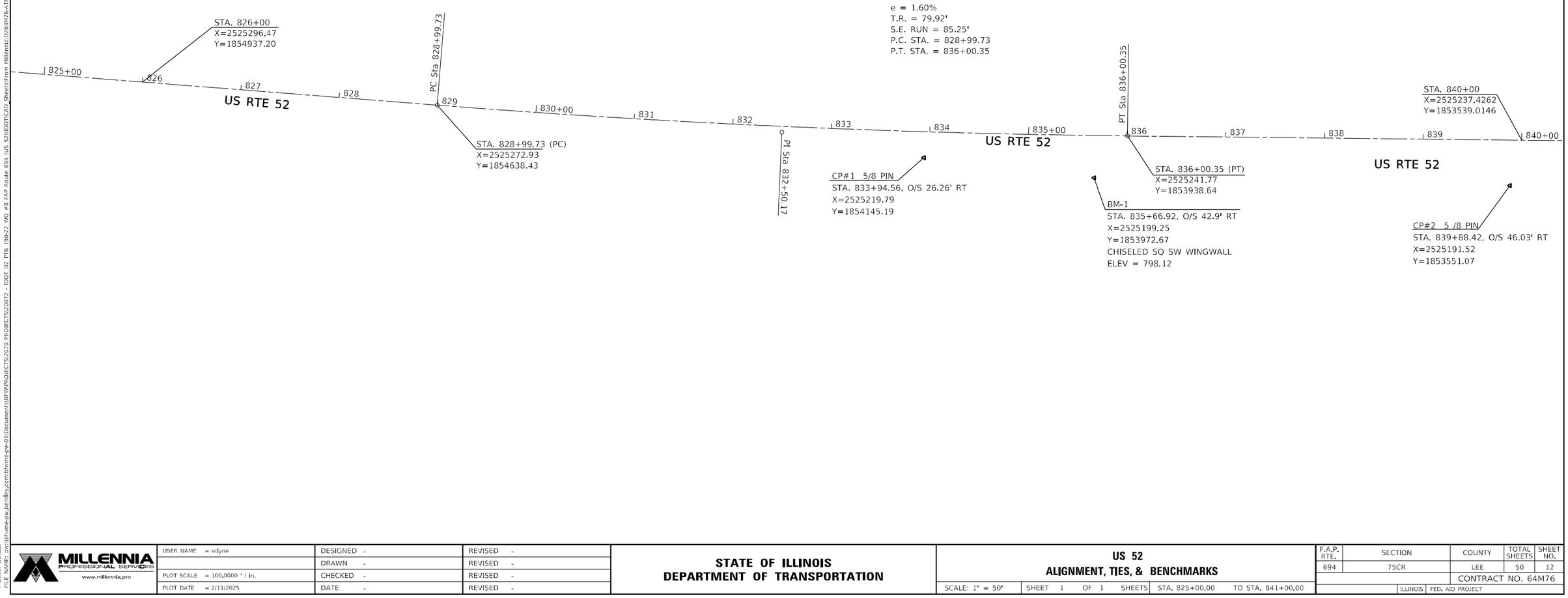
HOT-MIX ASPHALT MIX "C" UNIT WEIGHT: 112 LB/SY-IN

MODEL: Default
FILE NAME: pw:\\bfwm-pw.bentley.com:bfwm-pw-01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-23 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8" x 4" box culvert\0264M76-sht-typicals.dgn

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**US 52 TYPICAL SECTION**
		DRAWN - SPS	REVISED -		SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. 835+46.00 TO STA. 835+96.00
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 2/11/2025	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	11
		CONTRACT NO. 64M76		
		ILLINOIS | FED. AID PROJECT		

HORIZONTAL AND VERTICAL CONTROL



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MILLENNIA PROFESSIONAL SERVICES
www.millennia.pro

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
ALIGNMENT, TIES, & BENCHMARKS

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 825+00.00 TO STA. 841+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	12
		CONTRACT NO. 64M76		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

20800150 TRENCH BACKFILL

LOCATION	CU YD
835+62 & 835+76 (ACROSS ROAD PIPE & BOX CULVERT BACKFILL)	127.9
LT 835+29 TO LT 835+ 60 (12" PIPE CULVERT BACKFILL)	15.9
TOTAL CU YD	144

21101615 TOPSOIL FURNISH AND PLACE, 4"

STA	TO	STA	SQ YD
LT 833+00		LT 838+00	1811.0
RT 833+00		RT 838+00	2122.0
TOTAL SQ YD			3933

21301052 EXPLORATION TRENCH 52" DEPTH

STA	TO	STA	FOOT
LT CONTINGENCY			50
RT CONTINGENCY			50
TOTAL FT			100

25000210 SEEDING, CLASS 2A

STA	TO	STA	ACRE
LT 833+00		LT 838+00	0.32
RT 833+00		RT 838+00	0.39
TOTAL ACRE			0.75

25000310 SEEDING, CLASS 4

STA	TO	STA	ACRE
LT 833+00		LT 838+00	0.20
RT 833+00		RT 838+00	0.23
TOTAL ACRE			0.50

25000750 MOWING

STA	TO	STA	ACRE
LT 833+00		LT 838+00	0.32
RT 833+00		RT 838+00	0.39
TOTAL ACRE			0.75

25100125 MULCH, METHOD 3

STA	TO	STA	ACRE
LT 833+00		LT 838+00	0.41
RT 833+00		RT 838+00	0.53
TOTAL ACRE			1.0

25100630 EROSION CONTROL BLANKET

STA	TO	STA	WIDTH (FT)	SQ YD
RT 834+00		RT 835+50	15.00	250.0
LT 836+00		LT 837+50	15.00	250.0
RT 836+00		RT 837+50	13.00	216.7
TOTAL SQ YD				717

25100900 TURF REINFORCEMENT MAT

STA	TO	STA	WIDTH (FT)	SQ YD
LT 834+00		LT 835+50	15.00	250.0
TOTAL SQ YD				250

26000200 EARTH EXCAVATION FOR EROSION CONTROL

STA	TO	STA	CU YD
CONTINGENCY			20
TOTAL CU YD			20

26000250 TEMPORARY EROSION CONTROL SEEDING

STA	TO	STA	POUND
CONTINGENCY			342.0
TOTAL POUNDS			342

26000305 TEMPORARY DITCH CHECKS

STA	TO	STA	FOOT
CONTINGENCY			100
TOTAL FT			100

28000400 PERIMETER EROSION BARRIER

STA	TO	STA	FOOT
RT 833+00		RT 835+50	275.0
RT 835+90		RT 838+00	225.0
TOTAL FT			500

28000500 INLET AND PIPE PROTECTION

STA	TO	STA	EACH
UPSTREAM END OF BOX CULVERT			1
TOTAL EACH			1

28001000 AGGREGATE (EROSION CONTROL)

STA	TON
CONTINGENCY	30.0
TOTAL TONS	30

40600290 BITUMINOUS MATERIALS (TACK COAT)

STA	TO	STA		POUND
835+46		835+96	PLACED ON PCC PATCH	60.0
TOTAL POUNDS				60

40604050 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50

STA	TO	STA		TON
835+46		835+96	PLACED ON PCC PATCH	22.4
TOTAL TONS				23

44200050 WELDED WIRE REINFORCEMENT

STA	TO	STA	SQ YD
835+46		835+96	133.33
TOTAL SQ YDS			134

44200976 CLASS B PATCHES, TYPE IV, 10 INCH

STA	TO	STA	SQ YD
835+46		835+96	133.33
TOTAL SQ YDS			134

44201299 DOWEL BARS 1 1/2"

STA	TO	STA	EACH
835+46		835+96	40.0
TOTAL EACH			40

44213200 SAW CUTS

STA	TO	STA	FOOT
835+46		835+96	122.0
TOTAL FT			122

44213204 TIE BARS 3/4"

STA	TO	STA	EACH
835+46		835+96	17.0
TOTAL EACH			17

48101200 AGGREGATE SHOULDERS, TYPE B

STA	TO	STA	USE	TON
LT 833+00		LT 838+00	ALONG PERM. & TEMP. PAVT.	77.9
RT 833+00		RT 838+00	ALONG PERM. & TEMP. PAVT.	77.9
LT 833+95		LT 837+50	FILL TEMP. PAVT. REM. VOID	98.8
RT 833+95		RT 837+50	FILL TEMP. PAVT. REM. VOID	98.8
TOTAL TON				354

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

STA	EACH
835+66	1.0
TOTAL EACH	1

50200450 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES

STA	CU YD
835+62 & 835+76 (UNDER PIPE & BOX CULVERT)	78.0
TOTAL CU YDS	78

SCHEDULE OF QUANTITIES

50800105 REINFORCEMENT BARS

STA	DESCRIPTION	POUND
LT 835+29.3	PIPE CULVERT COLLAR	20.5
CONTINGENCY	FIELD TILE COLLAR (2)	41.0
TOTAL POUND		70

51500100 NAME PLATES

STA	EACH
835+76	1.0
TOTAL EACH	1

52200020 TEMPORARY SOIL RETENTION SYSTEM

STA		SQ FT
835+50.5 TO 835+90.7	STAGE I	275.3
835+50.5 TO 835+90.7	STAGE II	228.6
TOTAL SQ FT		504

54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1

STA	EACH
LT 835+76	1.0
RT 835+76	1.0
TOTAL EACH	2

54010804 PRECAST CONCRETE BOX CULVERTS 8' X 4'

STA	FOOT
835+76	60.0
TOTAL FT	60

54248510 CONCRETE COLLAR

STA	DESCRIPTION	CU YD
LT 835+29.3	PIPE CULVERT COLLAR	0.42
CONTINGENCY	FIELD TILE COLLAR (2)	0.91
TOTAL CU YD		1.4

54261424 CONCRETE END SECTION, STANDARD 542001, 24", 1:4

STA	EACH
RT 835+62	1.0
TOTAL EACH	1

542A0217 PIPE CULVERTS, CLASS A, TYPE 1 12"

STA	TO	STA	FOOT
835+29.3		835+60.3	31.0
TOTAL FT			31

542A1069 PIPE CULVERTS, CLASS A, TYPE 2 24"

STA	FOOT
835+62	63.85
TOTAL FT	64

60218400 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID

STA	EACH
LT 835+62	1.0
TOTAL EACH	1

60500060 REMOVING INLETS

STA	DESCRIPTION	EACH
RT 835+62	END OF EXISTING CULVERT	1.0
TOTAL FT		1

61100605 MISCELLANEOUS CONCRETE

STA	DESCRIPTION	CU YD
CONTINGENCY	FIELD TILE REPLACEMENT UNDER DITCH	3.0
TOTAL CU YDS		3.0

61101013 STORM SEWERS PROTECTED, CLASS A, 12 "

STA	DESCRIPTION	FOOT
CONTINGENCY	FIELD TILE REPLACEMENT UNDER ROADWAY	150
TOTAL FT		150

61133200 FIELD TILE JUNCTION VAULT, 3' DIA.

STA	EACH
LT CONTINGENCY	1.0
RT CONTINGENCY	1.0
TOTAL EACH	2

61140000 STORM SEWERS (SPECIAL), 8"

STA	DESCRIPTION	FOOT
CONTINGENCY	FIELD TILE REPLACEMENT NOT UNDER ROADWAY	100
TOTAL FT		100

61140200 STORM SEWERS (SPECIAL), 12 "

STA	DESCRIPTION	FOOT
RT CONTINGENCY	STAND PIPE	6
CONTINGENCY	FIELD TILE REPLACEMENT NOT UNDER ROADWAY	94
TOTAL FT		100

63500105 DELINEATORS

STA	OFFSET	EACH
LT 836+62	24' LT	1.0
RT 836+62	47' RT	1.0
LT 836+76	31' LT	1.0
RT 836+76	33 'RT	1.0
TOTAL EACH		4

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

STA	OFFSET	EACH
LT 833+50.00	60.00' LT	1.0
LT 835+75.00	75.00' LT	1.0
LT 837+50.00	70.00' LT	1.0
LT 838+00.00	60.00' LT	1.0
RT 833+21.92	60.00' RT	1.0
RT 833+50.00	70.00' RT	1.0
RT 835+50.00	85.00' RT	1.0
RT 836+00.00	85.00' RT	1.0
RT 837+50.00	75.00' RT	1.0
RT 838+00.00	60.00' RT	1.0
TOTAL EACH		10

66700305 PERMANENT SURVEY MARKERS, TYPE II

STA	EACH
NEAR BOX CULVERT	1.0
TOTAL EACH	1

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

STA	EACH
CULVERT STAGED CONSTRUCTION	1.0
TOTAL EACH	1

70300100 SHORT TERM PAVEMENT MARKING

STA	FOOT
832+49 TO 838+93 (AFTER EXISTING PVT MRK REMOVAL)	68.0
832+49 TO 838+93 (AFTER TEMPORARY PVT MRK REMOVAL)	68.0
TOTAL FT	136

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

STA		SQ FT
832+49 TO 838+93 (SHORT TERM REMOVAL)	136 * 4/12	45.3
832+21 TO 839+22 (TEMP PVT MRK 4" REMOVAL)	2804 * 4/12	934.7
832+21 TO 839+22 (TEMP PVT MRK 24" REMOVAL)	24 * 24/12	48.0
TOTAL SQ FT		1028

70307120 TEMPORARY PAVEMENT MARKING - LINE 4" -TYPE IV TAPE

STA		FOOT
STAGE I TRAFFIC (LEFT OF BARRIER WALL)	832+21 TO 839+22	701.0
STAGE I TRAFFIC (EDGE OF EXIST/TEMP PAVT)	832+21 TO 839+22	701.0
STAGE II TRAFFIC (RIGHT OF BARRIER WALL)	832+21 TO 839+22	701.0
STAGE II TRAFFIC (EDGE OF EXIST/TEMP PAVT)	832+21 TO 839+22	701.0
TOTAL FT		2804

70307210 TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE

STA	FOOT
RT 832+33	12.0
LT 839+10	12.0
TOTAL FT	24

SCHEDULE OF QUANTITIES

70400100 TEMPORARY CONCRETE BARRIER

STA	TO	STA	DESCRIPTION	FOOT
833+96		835+21	STAGE I TRAFFIC; TAPER 1:12	125.0
835+21		836+21	STAGE I TRAFFIC	100.0
836+21		837+46	STAGE I TRAFFIC; TAPER 1:12	125.0
TOTAL FT				350

70400125 PINNING TEMPORARY CONCRETE BARRIER

STA	TO	STA	DESCRIPTION	EACH
835+21		836+21	STAGE I TRAFFIC	18.0
835+21		836+21	STAGE II TRAFFIC	18.0
TOTAL EACH				36

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STA	TO	STA	DESCRIPTION	FOOT
833+96		835+21	STAGE II TRAFFIC; TAPER 1:12	125.0
835+21		836+21	STAGE II TRAFFIC	100.0
836+21		837+46	STAGE II TRAFFIC; TAPER 1:12	125.0
TOTAL FT				350

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STA	DESCRIPTION	EACH
833+96	USED FOR STAGE I TRAFFIC	1.0
837+46	USED FOR STAGE I TRAFFIC	1.0
TOTAL EACH		2

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

STA	DESCRIPTION	EACH
833+96	USED FOR STAGE II TRAFFIC	1.0
837+46	USED FOR STAGE II TRAFFIC	1.0
TOTAL EACH		2

78001110 PAINT PAVEMENT MARKING-LINE 4"

STA	TO	STA	DESCRIPTION	# APPLIC.	FOOT
CL 832+21		CL 836+20	NB NO PASS YELLOW	2	798.0
CL 832+21		CL 839+22	SKIP-DASH YELLOW	2	360.0
LT 832+21		LT 839+22	LEFT EDGE WHITE	2	1402.0
RT 832+21		RT 839+22	RIGHT EDGE WHITE	2	1402.0
TOTAL FT					3962

78300202 PAVEMENT MARKING REMOVAL - WATER BLASTING

STA	TO	STA	DESCRIPTION	WIDTH (INCH)	LENGTH (FOOT)	AREA (SQ FT)
EXISTING MARKINGS						
CL 832+49		CL 836+20	NB NO PASS YELLOW	4.0	371.0	123.7
CL 832+49		CL 838+95	SKIP-DASH YELLOW	4.0	170.0	56.7
LT 834+05		LT 837+39	LEFT EDGE WHITE	4.0	334.0	111.3
RT 834+05		RT 837+39	RIGHT EDGE WHITE	4.0	334.0	111.3
TOTAL SQ FT						403

X2810110 STONE RIPRAP, CLASS A5 (SPECIAL)

STA	SQ YD
RT 835+62 & 835+76	99.6
TOTAL SQ YDS	100

X4400110 TEMPORARY PAVEMENT REMOVAL

STA	TO	STA	SQ YD
LT 833+95		LT 837+50	216.9
RT 833+95		RT 837+50	216.9
TOTAL SQ YDS			434

X5510100 STORM SEWER REMOVAL

STA	TO	STA	DESCRIPTION	FOOT
LT 835+29.3		LT 835+57	STORM SEWER	40.0
RT 835+35		RT 836+00	FIELD TILE	110.0
TOTAL FT				150

Z0025505 PROPERTY MARKERS

STA	EACH
835+25.00 82.91' RT	1.0
835+30.00 95.00' RT	1.0
836+10.00 115.00' RT	1.0
836+10.00 84.33' RT	1.0
TOTAL EACH	4

Z0054400 ROCK FILL

STA	CU YD
835+62 & 835+76 (UNDER PIPE & BOX CULVERT)	78.0
TOTAL CU YDS	78

Z0062456 TEMPORARY PAVEMENT

STA	TO	STA	SQ YD
LT 833+95		LT 837+50	216.9
RT 833+95		RT 837+50	216.9
TOTAL SQ YDS			434

SE 1/4, NE 1/4, SEC 3, T20N, R10E OF THE 4TH PM

STA. 835+62.00, 0° SKEW
PIPE CULVERT, CLASS A, TYPE 2, 24", 63.85' LENGTH
W/ CONCRETE END SECTION, (STD 542001), 24", 1:4, 1-EACH
LT 21.44' USFL = 795.77
RT 55.41' DSFL = 795.40 (END OF END SECTION)
MANHOLES, TYPE A, 4' DIAMETER,
TYPE 1 FRAME, CLOSED LID, 1-EACH
LT = 22.84'; INV = 795.77; TOL = 803.11
(STD 602406; 602601; 602701; 604001)

STA. 835+76.00, 0° SKEW (PR SN 052-1154)
8'W x 4'H PRECAST CONCRETE BOX CULVERT, LENGTH 60.0'
W/ PRECAST BOX CULVERT END SECTIONS, CULVERT NO.1, 1:4, 2-EACH
TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS, 75.2' (EACH END SECTION)
(IDOT BRIDGE CELL - SBC TES & TPGBC - 25)
LT 53.61' USFL = 795.85 (END OF END SECTION)
LT 28.94' USFL = 795.73 (END OF BOX)
RT 28.94' DSFL = 795.44 (END OF BOX)
RT 55.73' DSFL = 795.32 (END OF END SECTION)

STA 835+63.80
REMOVAL OF EXISTING STRUCTURES NO. 1, 1-EACH
(2 - 24" CMP W/ LINERS, 78' & CONCRETE HEADWALLS;
EX SN 052-1150)

CLASS B PATCH, TYPE IV, 10 INCH (50' LENGTH)
3" HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N 50

GARTH DALLAM & LINDA GILBERT

MICHAEL R. PRATT AND SUSAN K. PRATT

EDNA SULLIVAN

CHRISTINA PARHAS, MARY E. METROU-STEIN, PETER N. METROU

EX 5" FIELD TILE
EX 8" FIELD TILE
EX 8" FIELD TILE
EX R.O.W.
PR R.O.W.
EX R.O.W.
EX 8" SS
CONSTRUCTION LIMITS
EX 12" SS
EX 8" SS
12" PLASTIC
CONSTRUCTION LIMITS
PR R.O.W.
EX 5" FIELD TILE
PR R.O.W.
EX R.O.W.
PI Sta 832+50.17
PROJECT BEGINS
STA. 833+00.00
PT Sta 836+00.35
60'-0"
60'-0"
PROJECT ENDS
STA. 838+00.00
833
834
835+00
836
837
838
CONSTRUCTION LIMITS
STA. 835+29.80
EX A.R. CULVERT W/
ENDS PLUGGED
STA. 835+46.00
STA. 835+96.00
PR AGGREGATE SHOULDERS,
TYPE B (8'-0" WIDTH & VAR.)
EX R.O.W.
EARTH BERM
PR R.O.W.
EARTH BERM
PR R.O.W.
EX R.O.W.
CONSTRUCTION LIMITS
STONE RIPRAP, CLASS A5 (SPECIAL)
W/ FILTER FABRIC, 100 SQ YD
PR T.C.E.
EX ±6" FIELD TILE
B-2
B-1
APPROX.

EXIST. CURVE US52_10
PI STA. = 832+50.17
Δ = 3° 51' 21" (LT)
D = 0° 33' 01"
R = 10,411.10'
T = 350.44'
L = 700.61'
E = 5.90'
e = 1.60%
T.R. = 79.92'
S.E. RUN = 85.25
P.C. STA. = 828+99.73
P.T. STA. = 836+00.35

A PIPE CULVERT, CLASS A, TYPE 1, 12", 31.0'
+29.3, 22.84' LT USFL (MATCH EXISTING - DETERMINE IN FIELD)
+60.3, 22.84' LT DSFL = 796.50
CONCRETE COLLAR (0.4 CU YD)
(SEE DETAILS)
STORM SEWER REMOVAL (40 FOOT)

B FIELD TILE RELOCATION TO BE INVESTIGATED AND
DESIGNED IN FIELD BY ENGINEER; ESTIMATED QUANTITIES:
EXPLORATION TRENCH, 52 IN. DEPTH (100 FOOT)
STORM SEWERS PROTECTED, CLASS A, 12" (150 FOOT)
STORM SEWERS (SPECIAL), 8" (100 FOOT)
STORM SEWERS (SPECIAL), 12" (100 FOOT)
FIELD TILE JUNCTION VAULTS, 3' DIA. (2-EACH)
CONCRETE COLLAR (0.9 CU YD)
REMOVING INLETS (1-EACH)
STORM SEWER REMOVAL (110 FOOT)
FIELD TILE RISER, APPROX. 90' RT STA 835+90

SW 1/4, NE 1/4, SEC 3, T20N, R10E OF THE 4TH PM

MODEL: Default
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BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN - SPS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
PLAN

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 832+00.00 TO STA. 839+00.00

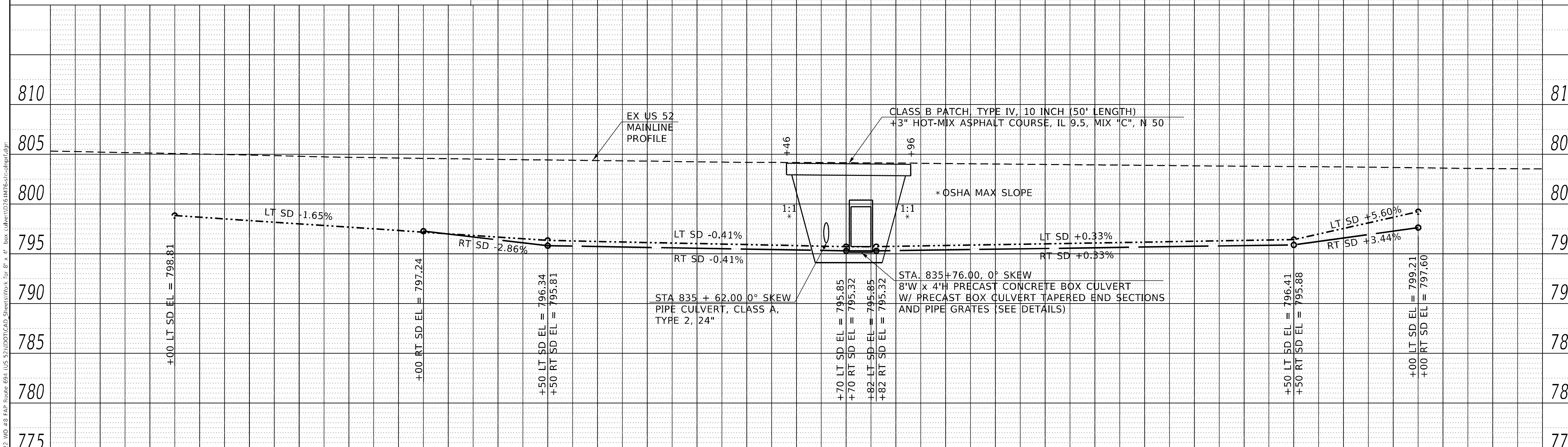
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	16
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

WATERWAY INFORMATION TABLE

Drainage Area = EX: 114.82; PR 92.48 acres
Existing Low Grade Elevation: 799.61 ft. @ Sta. 839+76
Proposed Low Grade Elevation: 799.61 ft. @ Sta. 839+76

Flood	Frequency Year	EX Discharge	PR Discharge	Headwater Elev. (ft) Existing	Headwater Elev. (ft) Proposed
Ten-Year	10	106	84	801.01	798.30
Design	50	159	122	801.38	799.00
Base	100	188	143	801.50	799.37
OVT (EXIST)	<10	29.7		799.61	
OVT (PROP)	105		157		799.61
	500	261	199	801.71	800.17

10-Year Velocity through Existing Culvert = 7.8 fps
10-Year Velocity through Proposed Culvert = 8.1 fps



RIGHT SPECIAL DITCH ————
LEFT SPECIAL DITCH —··—··—

EARTHWORK					
LOCATION	20200100 EARTH EXCAVATION (CUT)		EMBANKMENT (FILL)		EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (25% SHRINKAGE)
	CU YD		CU YD		CU YD
LT 833+00 TO 838+00	525.6		1.9		392.3
RT 833+00 TO 838+00	214.8		131.5		29.6
TOTAL	740		133		422
ADJUSTED TOTAL	740		135		420

QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25%.

EARTHWORK BALANCE (-) = QUANTITY OF FURNISHED EXCAVATION
EARTHWORK BALANCE (+) = QUANTITY OF WASTE

EX 805.31 | EX 805.06 | EX 804.78 | EX 804.56 | EX 804.37 | EX 804.72 | EX 804.10 PR 804.10 | EX 804.06 PR 804.06 | EX 804.02 | EX 803.89 | EX 803.76 | EX 803.66 | EX 803.52 | EX 803.52

+50 | 833+00 | +50 | 834+00 | +50 | 835+00 | +50 | +75 | 836+00 | +50 | 837+00 | +50 | 838+00

PLAN — NOTE BOOK NO.___ SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO.___ SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTAT'NS CH'KD — BY — DATE

SE 1/4, NE 1/4, SEC 3, T20N, R10E OF THE 4TH PM

GARTH DALLAM
&
LINDA GILBERT

EX 5" FIELD TILE

EX 8" FIELD TILE

EX 8" FIELD TILE

833+50.00
60.00' LT

PR R.O.W.

EX R.O.W.

EX 8" SS

CONSTRUCTION
LIMITS

EX 12" SS

PI Sta 832+50.17

PROJECT BEGINS
STA. 833+00.00

833

US 52

834

835+00

835+75.00
75.00' LT

CONSTRUCTION
LIMITS

EX 8" SS

B-2

12" PLASTIC

PT Sta 836+00.35

836

837

MICHAEL R. PRATT
AND SUSAN K. PRATT
PARCEL NO. 20419002

837+50.00
70.00' LT

838+00.00
60.00' LT

EX 5" FIELD TILE

PR R.O.W.

EX R.O.W.

60'-0"

US 52

838

PROJECT ENDS
STA. 838+00.00

CONSTRUCTION
LIMITS

EX R.O.W.

833+21.92
60.00' RT

833+50.00
70.00' RT

PR R.O.W.

EARTH BERM

835+50.00
85.00' RT

B-1

836+00.00
85.00' RT

EARTH BERM

CONSTRUCTION
LIMITS

838+00.00
60.00' RT

PR R.O.W.

837+50.00
75.00' RT

836+10.00
84.33' RT

EDNA SULLIVAN

APPROX.

835+25.00
82.91' RT

PARCEL NO. 20419001

PR T.C.E.

835+30.00
95.00' RT

836+10.00
115.00' RT

PARCEL NO. 20419001 TE

EX ±6" FIELD TILE

CHRISTINA PARHAS,
MARY E. METROU-STEIN,
PETER N. METROU

SW 1/4, NE 1/4, SEC 3, T20N, R10E OF THE 4TH PM

MODEL: Default
FILE NAME: pw:\\bfwmspw.bentley.com:bfwmspw-dgn01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-27 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8' x 4' box culvert\D2764M76-sht-rowplan.dgn

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 52 RIGHT OF WAY PLAN
		DRAWN - SPS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 832+00.00 TO STA. 839+00.00
	PLOT DATE = 2/11/2025	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	18
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

SE 1/4, NE 1/4, SEC 3, T20N, R10E OF THE 4TH PM

EX 5" FIELD TILE

PERMANENT TURF REINFOREMENT MAT
LT 834+00.00 TO 835+50.00, 15.0' WIDE

PERMANENT EROSION CONTROL BLANKET
LT 836+00.00 TO 837+50, 15.0' WIDE

EX 8" FIELD TILE

EX 8" FIELD TILE

CONSTRUCTION LIMITS

EX 5" FIELD TILE

EX R.O.W.

EX 8" SS

PR R.O.W.

PR R.O.W.

EX R.O.W.

CONSTRUCTION LIMITS

PI Sta 832+50.17

TURF REINFOREMENT MAT

EX 12" SS

EX 8" SS

12" PLASTIC

PT Sta 836+00.35

EROSION CONTROL BLANKET

PROJECT BEGINS
STA. 833+00.00

833

US 52

834

835+00

836

837

US 52

838

PROJECT ENDS
STA. 838+00.00

EROSION CONTROL BLANKET

EROSION CONTROL BLANKET

CONSTRUCTION LIMITS

EARTH BERM

PR R.O.W.

B-1

EARTH BERM

PR R.O.W.

CONSTRUCTION LIMITS

EX R.O.W.

PR T.C.E.

APPROX.

PERMANENT EROSION CONTROL BLANKET
RT 834+00.00 TO 835+50.00, 15.0' WIDE

PERMANENT EROSION CONTROL BLANKET
RT 836+00.00 TO 837+50, 13.0' WIDE

NOTE: MULCH METHOD 3 SHALL BE USED ON SEEDED AREAS (CLASS 2A OR 4) THAT DO NOT HAVE TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET

LEGEND:

- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- STONE RIPRAP, CLASS A5 (SPECIAL)
- TURF REINFORCEMENT MAT
- EROSION CONTROL BLANKET
- FLOWLINE

SE 1/4, NE 1/4, SEC 3, T20N, R10E OF THE 4TH PM

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MILLENNIA PROFESSIONAL SERVICES
www.millennia.pro

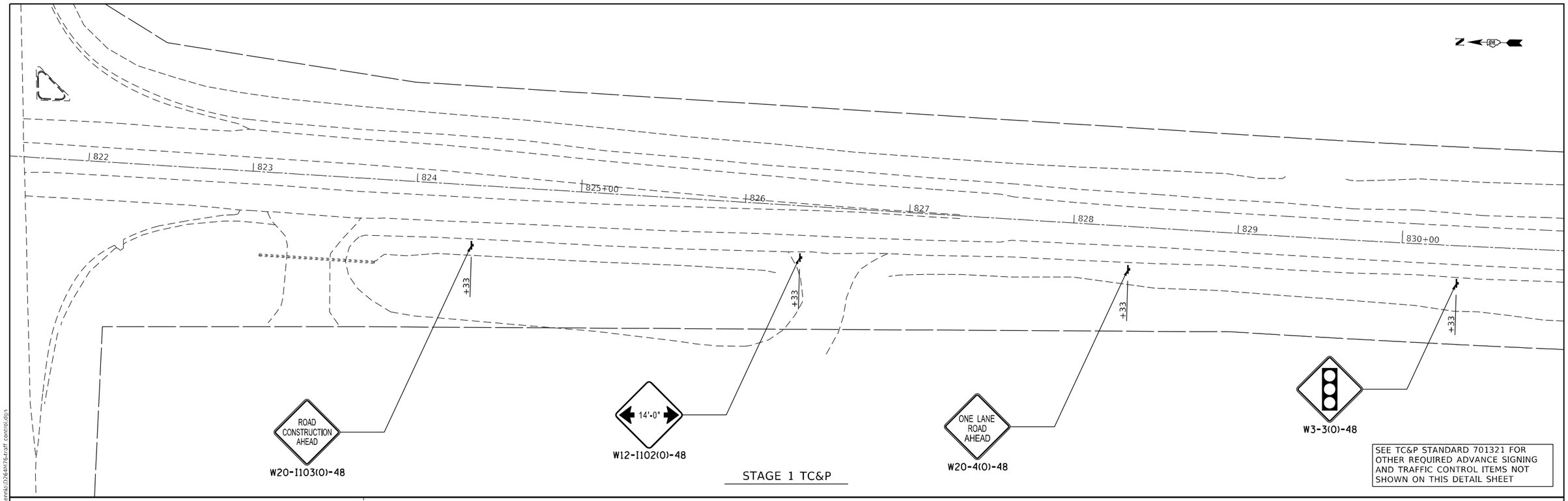
USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
EROSION AND SEDIMENT CONTROL PLAN

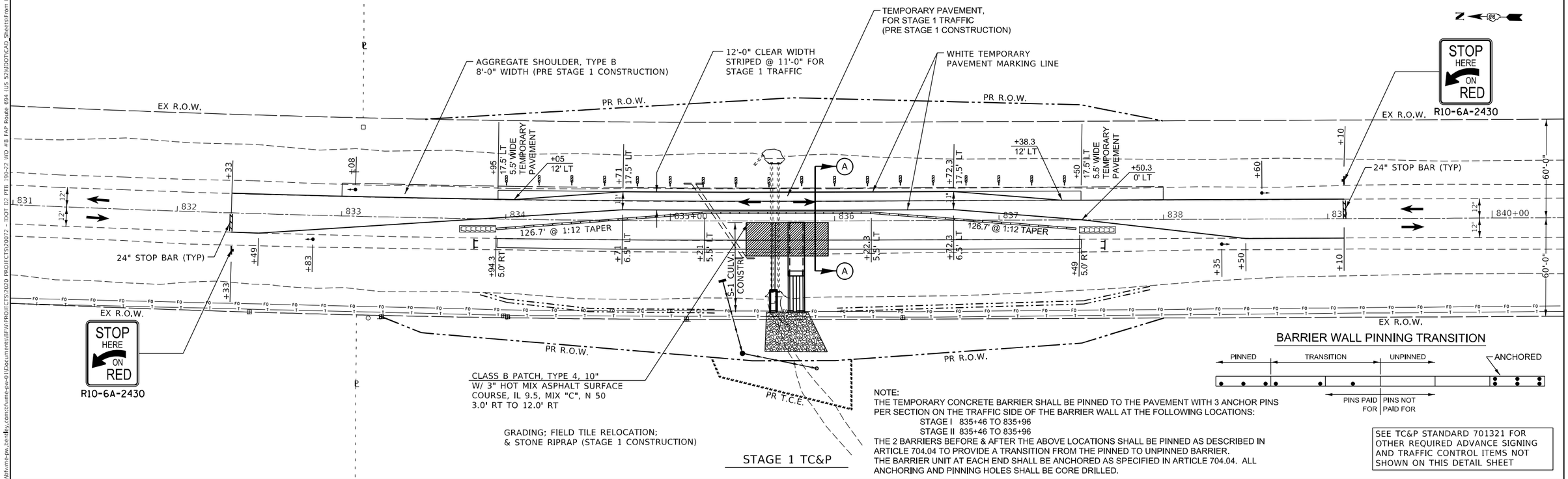
SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 832+00.00 TO STA. 839+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	19
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	



STAGE 1 TC&P

SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS DETAIL SHEET



STAGE 1 TC&P

BARRIER WALL PINNING TRANSITION

NOTE:
THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:
STAGE I 835+46 TO 835+96
STAGE II 835+46 TO 835+96
THE 2 BARRIERS BEFORE & AFTER THE ABOVE LOCATIONS SHALL BE PINNED AS DESCRIBED IN ARTICLE 704.04 TO PROVIDE A TRANSITION FROM THE PINNED TO UNPINNED BARRIER.
THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.

SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS DETAIL SHEET

MILLENNIA PROFESSIONAL SERVICES
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USER NAME = sclyne	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 2/13/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
MAINTENANCE OF TRAFFIC PLAN

SCALE: 1" = 30' | SHEET 1 OF 4 SHEETS | STA. 822+00.00 | TO STA. 840+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	20
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

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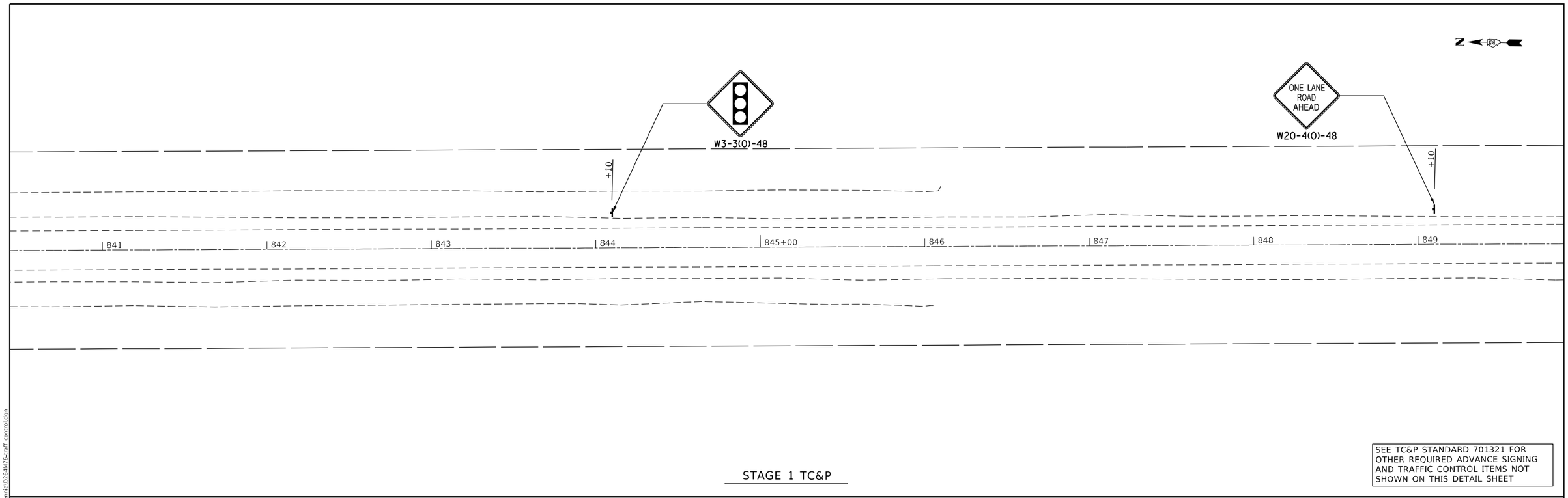
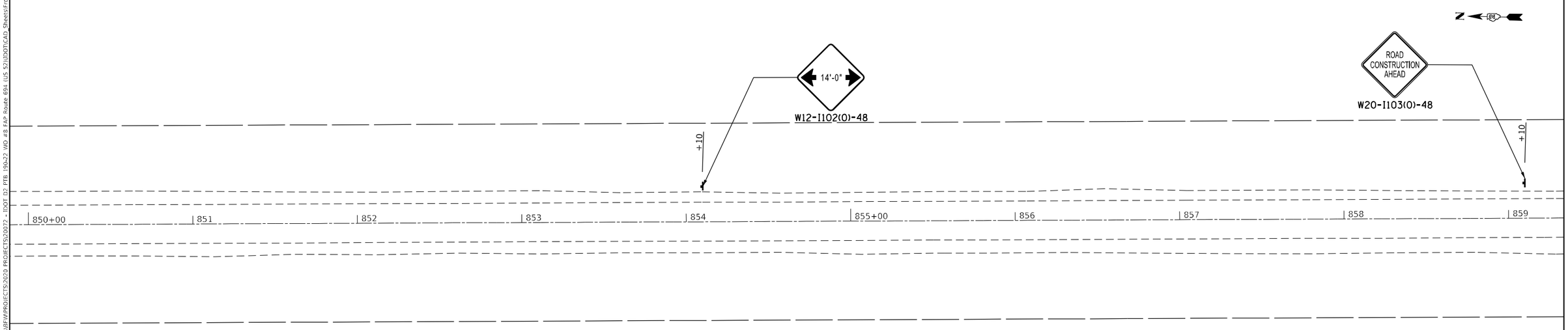


STAGE 1 TC&P

SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS DETAIL SHEET



STAGE 1 TC&P

SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS DETAIL SHEET

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	DRAWN -	REVISED -
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PLOT DATE = 2/13/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
MAINTENANCE OF TRAFFIC PLAN

SCALE: 1" = 30' | SHEET 2 OF 4 SHEETS | STA. 840+00.00 | TO STA. 859+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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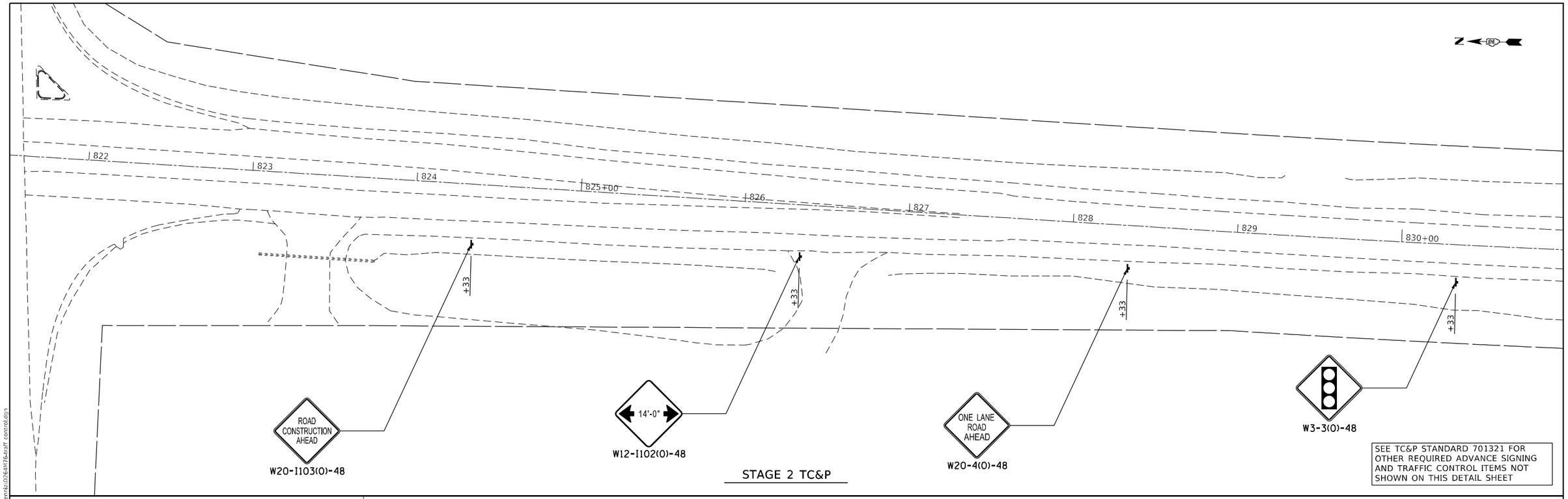
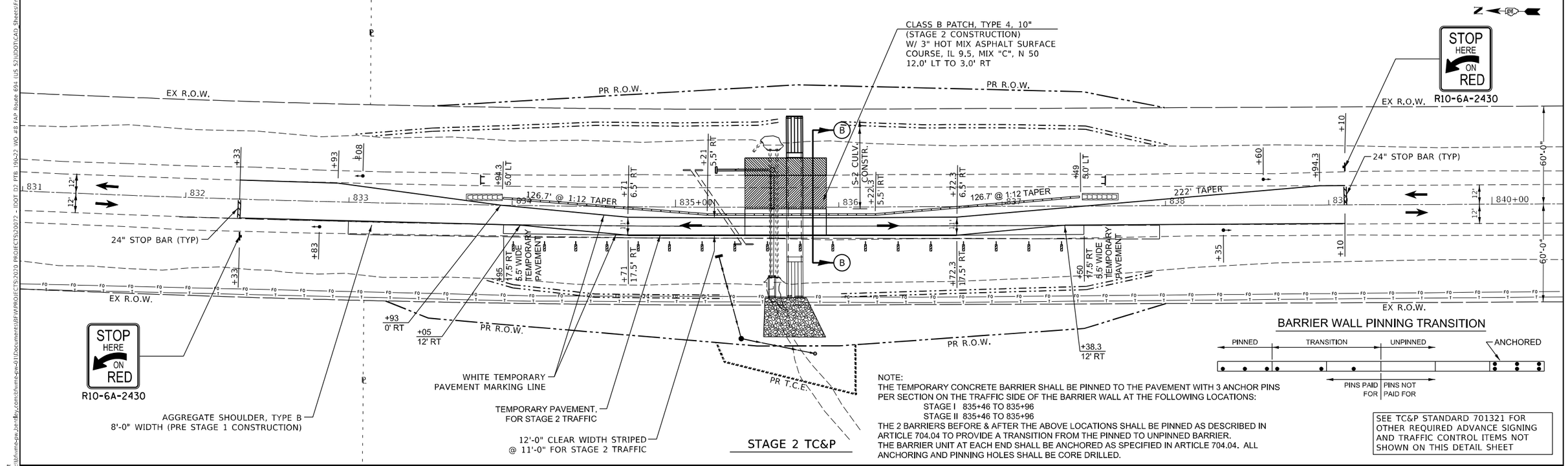
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



STAGE 2 TC&P



STAGE 2 TC&P

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MILLENNIA PROFESSIONAL SERVICES www.millennia.pro	USER NAME = sclyne	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 52 MAINTENANCE OF TRAFFIC PLAN
		DRAWN -	REVISED -		
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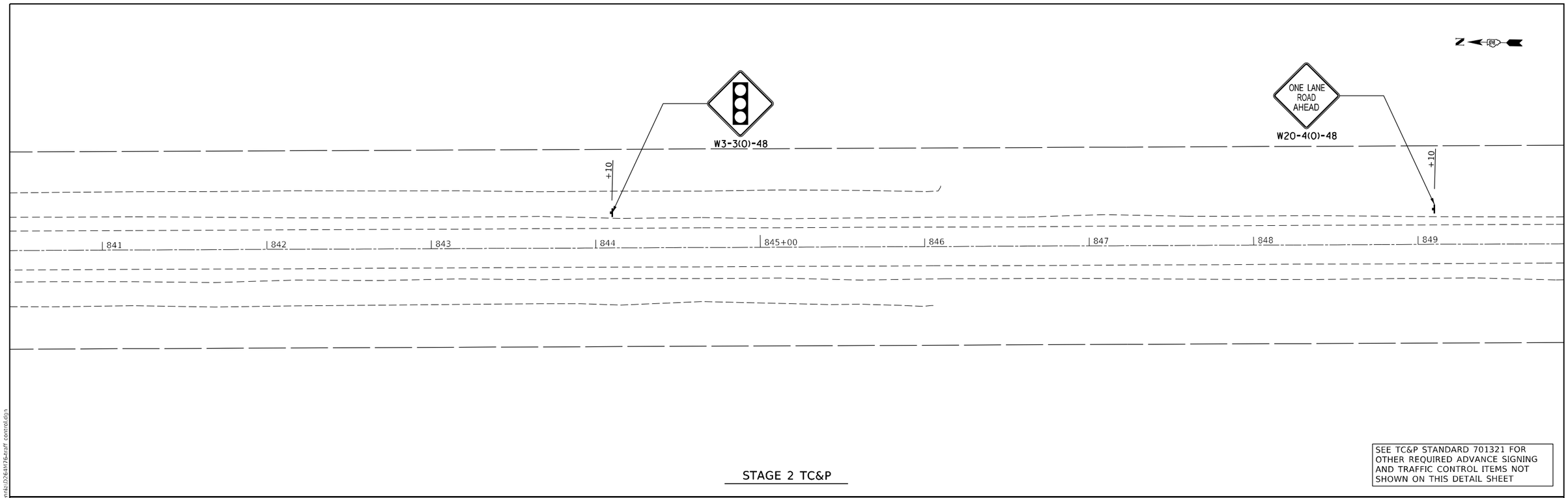
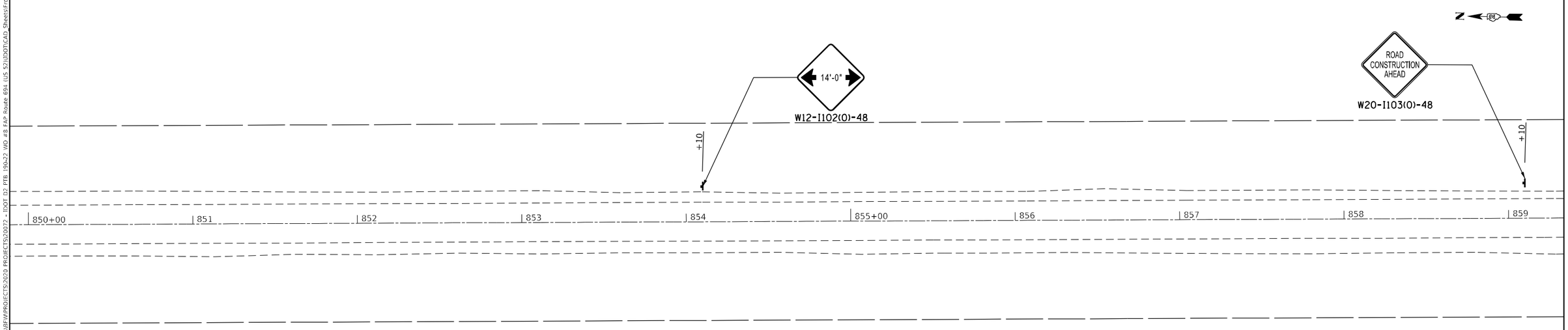
	PLOT DATE = 2/13/2025	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	22
		CONTRACT NO. 64M76		
		ILLINOIS | FED. AID PROJECT		



STAGE 2 TC&P

SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS DETAIL SHEET



STAGE 2 TC&P

SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS DETAIL SHEET

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PLOT DATE = 2/13/2025	DATE -	REVISED -

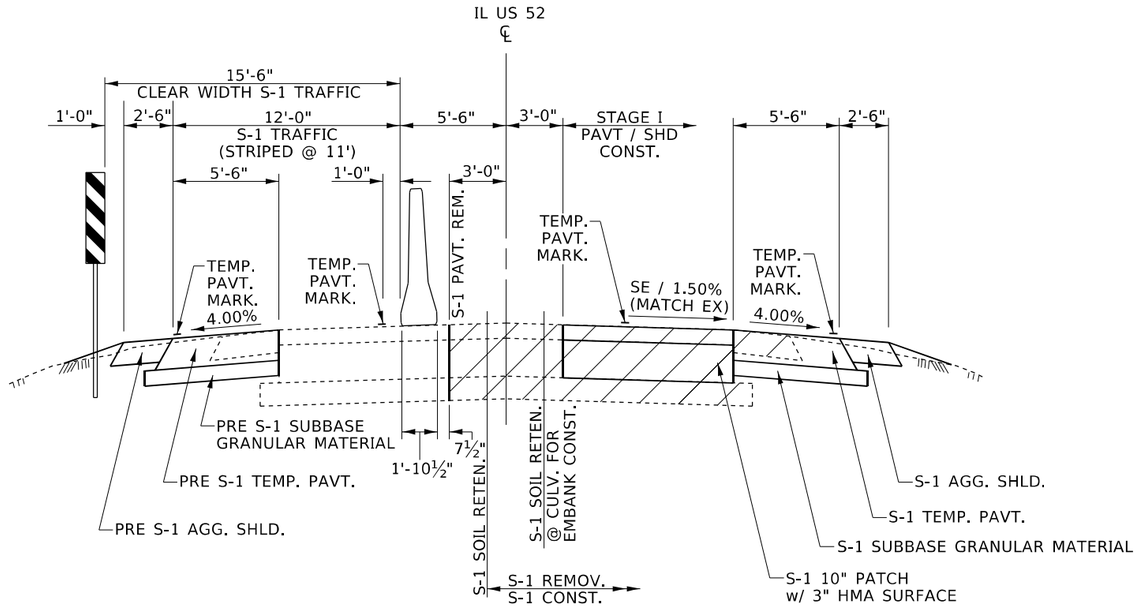
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
MAINTENANCE OF TRAFFIC PLAN

SCALE: 1" = 30' | SHEET 4 OF 4 SHEETS | STA. 840+00.00 | TO STA. 859+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	23
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

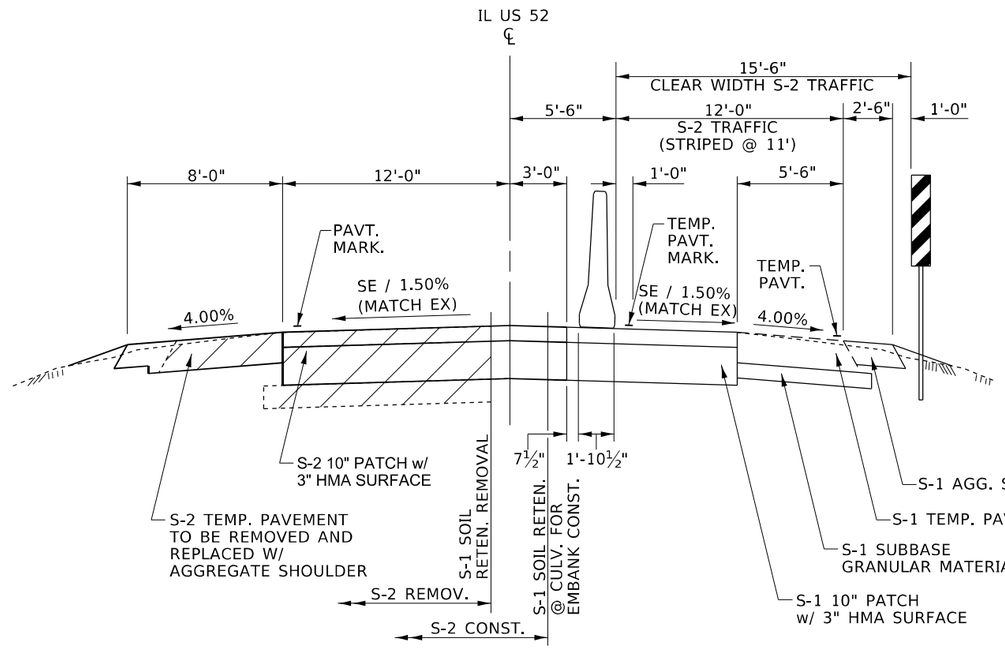
TRAFFIC CONTROL TYPICAL SECTIONS



STAGE 1
SECTION A-A

(S-1 TC&P TYPICAL SECTION)

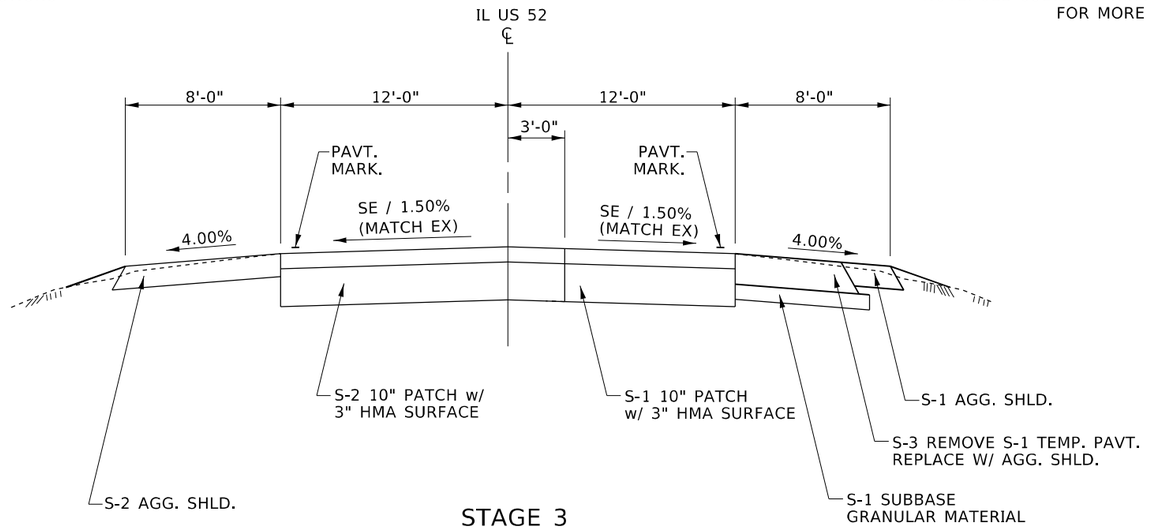
NOTE: SEE CULVERT PROFILES IN CROSS SECTIONS FOR MORE DETAILS



STAGE 2
SECTION B-B

(S-2 TC&P TYPICAL SECTION)

NOTE: SEE CULVERT PROFILES IN CROSS SECTIONS FOR MORE DETAILS



STAGE 3

(S-3 TC&P TYPICAL SECTION)

NOTE: SEE CULVERT PROFILES IN CROSS SECTIONS FOR MORE DETAILS

PAVEMENT REMOVAL

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BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**US 52 TRAFFIC CONTROL TYPICAL SECTIONS**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SPS	REVISED -			694	75CR	LEE	50	24
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 64M76		
	PLOT DATE = 2/11/2025	DATE -	REVISED -		SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

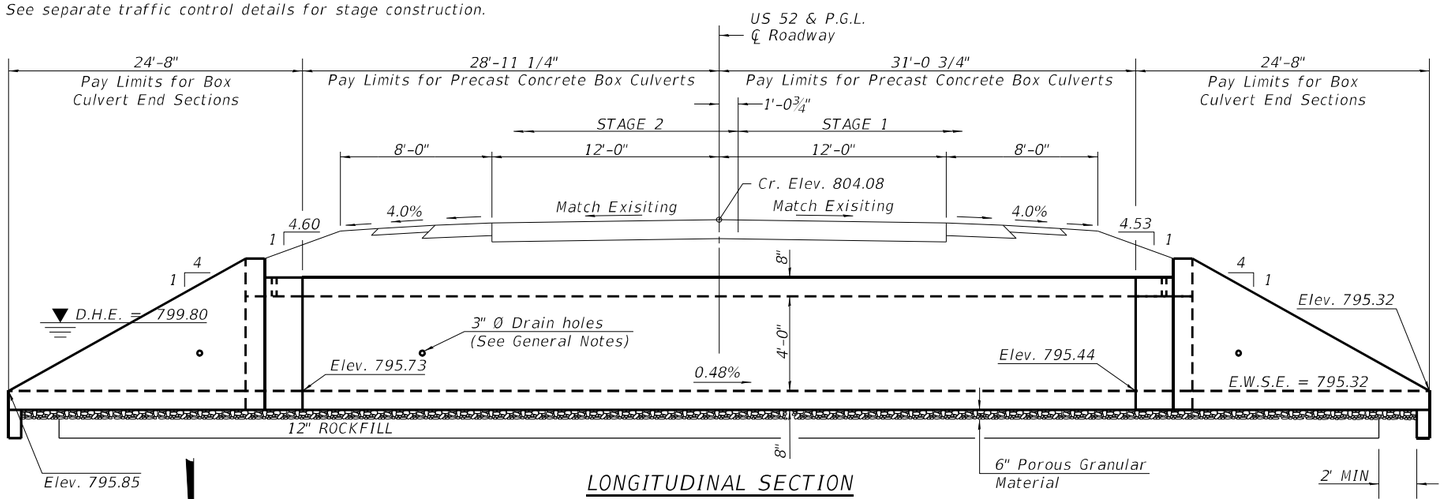
Benchmark: Chiseled "□" in top of SW wingwall of SN 052-1150. 42.9' Right of Station 835+66.92
Elevation = 798.12

Exisiting Structure: SN 052-1150 was orginally constructed in 1964 and consists of 2 - 24" diameter corrugated metal pipes. In 2019, 20" liners were installed to the existing pipes. The existing structure is to be removed.

Salvage: No Salvage

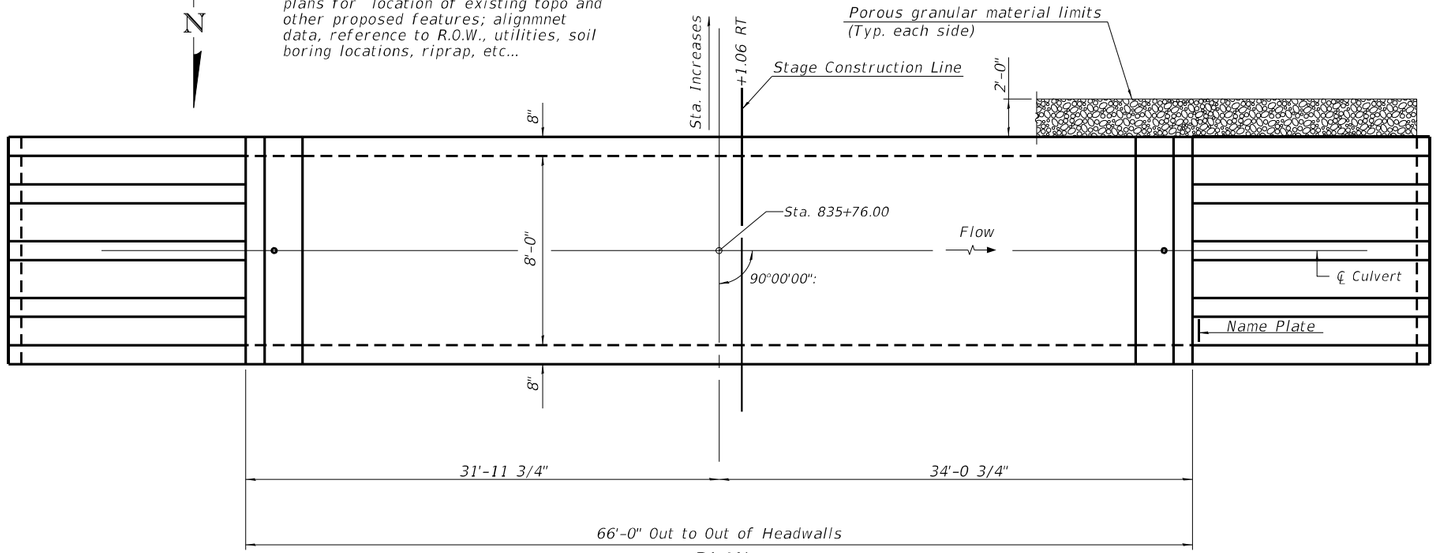
Traffic to be maintained by utilizing stage construction.

See separate traffic control details for stage construction.



LONGITUDINAL SECTION

NOTE: See plan and profile sheet in roadway plans for location of existing topo and other proposed features; alignmnet data, reference to R.O.W., utilities, soil boring locations, riprap, etc...



PLAN

WATERWAY INFORMATION

Drainage Area = EX: 114.82; PR 92.48 acres
Existing Low Grade Elevation: 799.61 ft. @ Sta. 839+76
Proposed Low Grade Elevation: 799.61 ft. @ Sta. 839+76

Flood	Frequency Year	EX Discharge	PR Discharge	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	106	84	801.01	798.30
Design	50	159	122	801.38	799.00
Base	100	188	143	801.50	799.37
OVT (EXIST)	<10	29.7		799.61	
OVT (PROP)	105		157		799.61
	500	261	199	801.71	800.17

10-Year Velocity through Existing Culvert = 7.8 fps
10-Year Velocity through Proposed Culvert = 8.1 fps

SCB-GPE 5-15-2023

GENERAL NOTES

The design fill height for this box is 3.54 ft. (greater than 2.0'). The precast box culvert sections shall conform to the requirements of ASTM C 1577.

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.

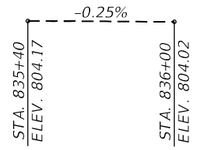
Precast concrete box culverts and box culvert end sections shall be backfilled with Trench Backfill in the required excavation areas on the sides of the box culvert from 1' over the top of the box culvert to the bottom of the box culvert. The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the 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.

Traversable pipe grates will not be paid for separately. The cost shall be included in Box Culvert End Sections, Culvert No. 1

See follow sheets for soil boring information.

PROFILE GRADE

Along ℄ Roadway



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
fy = 65,000 psi (Welded Wire Reinforcement)

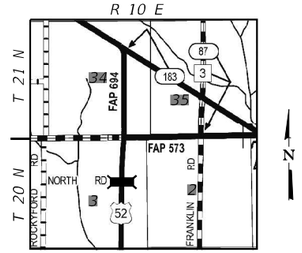
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Trench Backfill*	Cu. Yd.	152
Removal of Existing Structures No. 1	Each	1
Removal and Disposal of Unsuitable Material for Structures*	Cu. Yd.	78
Name Plates	Each	1
Temporary Soil Retention System*	Sq. Ft.	501
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 8'x4'	Foot	60
Stone Riprap, Class A5 (Special)	Sq. Yd.	100
Rock Fill	Cu. Yd.	78

*Includes Quantity for Parallel Pipe Culvert

STATION 835+76
BUILT 2025 BY
STATE OF ILLINOIS
F.A.P. RTE. 694 SEC. 75CR
LOADING HL-93
STR. NO. 052-1154

NAME PLATE
See Std. 515001



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
US RTE. 52 OVER DRAINAGE WAY
F.A.P. RTE. 694 SEC. 75CR
LEE COUNTY
STATION 835+76.00
S.N. 052-1154

MODEL: Default
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BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 6.4000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 052-1154

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	25
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 2/27/17

ROUTE FA 694 (US 52) DESCRIPTION P92-052-CR Culvert .2 m. S. of US 30 LOGGED BY W. Garza

SECTION 75R LOCATION Amboy - NE 3, SEC. , TWP. 20N, RNG. 10E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO. 052-1154
Station 835+76 ~~528+00~~

Latitude 41° 45' 14.02" Northing 1,853,958.0205
Longitude -89° 19' 46.41" Easting 2,524,988.1929

BORING NO. B-1
Station 835+92 ~~528+27~~
Offset 72.00ft Rt CL
Ground Surface Elev. 91.40 ft

Surface Water Elev. 90.60 ft
Stream Bed Elev. 90.50 ft
Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM dark brown SILTY CLAY LOAM with 6.7% ORGANICS			0.5 P	30.0
	89.40			
MEDIUM dark gray SILTY CLAY LOAM		4 5 6	0.9 B	25.0
	87.40			
MEDIUM tan SILTY CLAY LOAM TILL	-5	1 3 3	0.8 B	16.0
	85.40			
MEDIUM tan SILTY CLAY LOAM TILL		2 3 4	0.7 B	15.0
	82.90			
SOFT light gray SILTY CLAY LOAM TILL	-10	2 2 3	0.5 B	15.0
	80.40			
STIFF light gray LOAM TILL		3 5 8	1.7 B	12.0
	77.90			
VERY STIFF light gray LOAM TILL	-15	3 6 9	2.9 B	11.0
	75.40			
VERY STIFF light gray LOAM TILL		4 6 8	2.0 B	11.0
	72.90			
VERY STIFF light gray LOAM TILL	-20	6		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF light gray LOAM TILL (continued)		9 14	3.1 B	10.0
	70.40			
HARD light gray LOAM TILL		9 12 18	5.8 B	10.0
	67.90			
HARD light gray LOAM TILL with SAND lens	-25	6 11 15	5.0 S	11.0
	65.40			
End of Boring				
	-30			
	-35			
	-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 2/27/17

ROUTE FA 694 (US 52) DESCRIPTION P92-052-CR Culvert .2 m. S. of US 30 LOGGED BY W. Garza

SECTION 75R LOCATION Amboy - NE 3, SEC. , TWP. 20N, RNG. 10E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO. 052-1154
Station 835+76 ~~528+00~~

Latitude 41° 45' 15.21" Northing 1,854,082.3752
Longitude -89° 19' 41.34" Easting 2,525,371.4658

BORING NO. B-2
Station 835+49 ~~527+84~~
Offset 44.50ft Lt CL
Ground Surface Elev. 93.80 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 90.50 ft
Groundwater Elev.:
First Encounter 86.8 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM dark brown SILTY CLAY LOAM with 7% ORGANICS			0.5 P	33.0
	91.80			
STIFF tan/brown SILTY CLAY LOAM		5 6 7	1.6 B	30.0
	89.80			
LOOSE tan moist fine SAND	-5	4 3 7		
	87.30			
MEDIUM tan/light gray SILTY CLAY LOAM TILL		2 2 4	0.6 B	14.0
	85.30			
STIFF light gray LOAM TILL	-10	3 3 6	1.1 B	12.0
	82.80			
STIFF light gray LOAM TILL		2 3 6	1.2 B	11.0
	80.30			
STIFF light gray LOAM TILL	-15	2 4 7	1.1 B	12.0
	77.80			
STIFF light gray LOAM TILL		2 5 8	1.2 B	11.0
	75.30			
STIFF light gray LOAM TILL	-20	3		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF light gray LOAM TILL (continued)		5 6	1.7 B	12.0
	72.80			
VERY STIFF light gray LOAM TILL		3 6 8	2.3 B	13.0
	70.30			
STIFF light gray LOAM TILL with moist fine SAND lens	-25	4 6 8	1.7 B	13.0
	67.80			
End of Boring				
	-30			
	-35			
	-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

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

BBS, from 137 (Rev. 8-99)

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

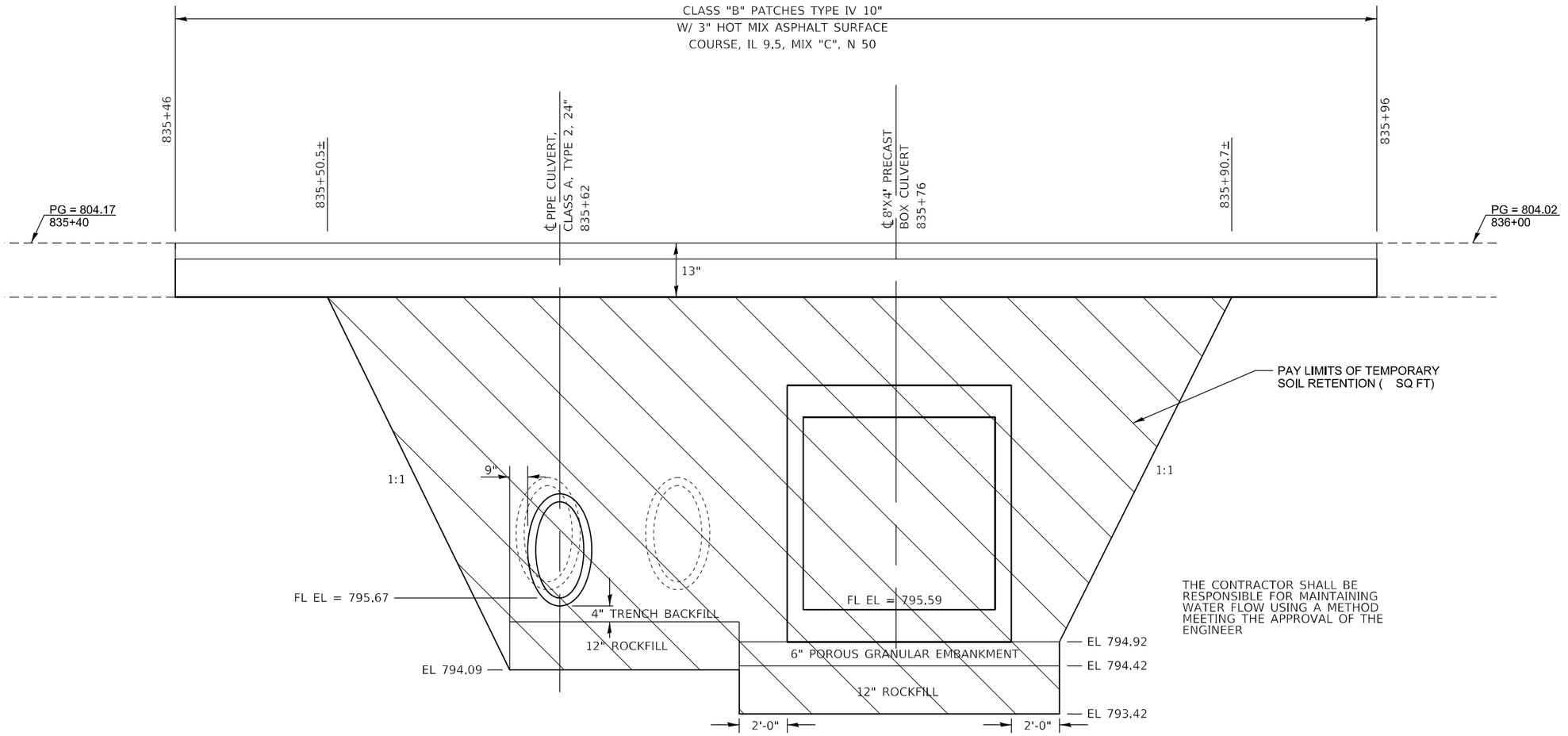
USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
SOIL BORING LOG

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	26
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER FLOW USING A METHOD MEETING THE APPROVAL OF THE ENGINEER

TEMPORARY SOIL RETENTION

(NECESSARY FOR REMOVAL IN STAGE 1
AND FOR CONSTRUCTION IN STAGE 1; SEE
CULVERT PROFILE IN CROSS SECTION)

MODEL: Default
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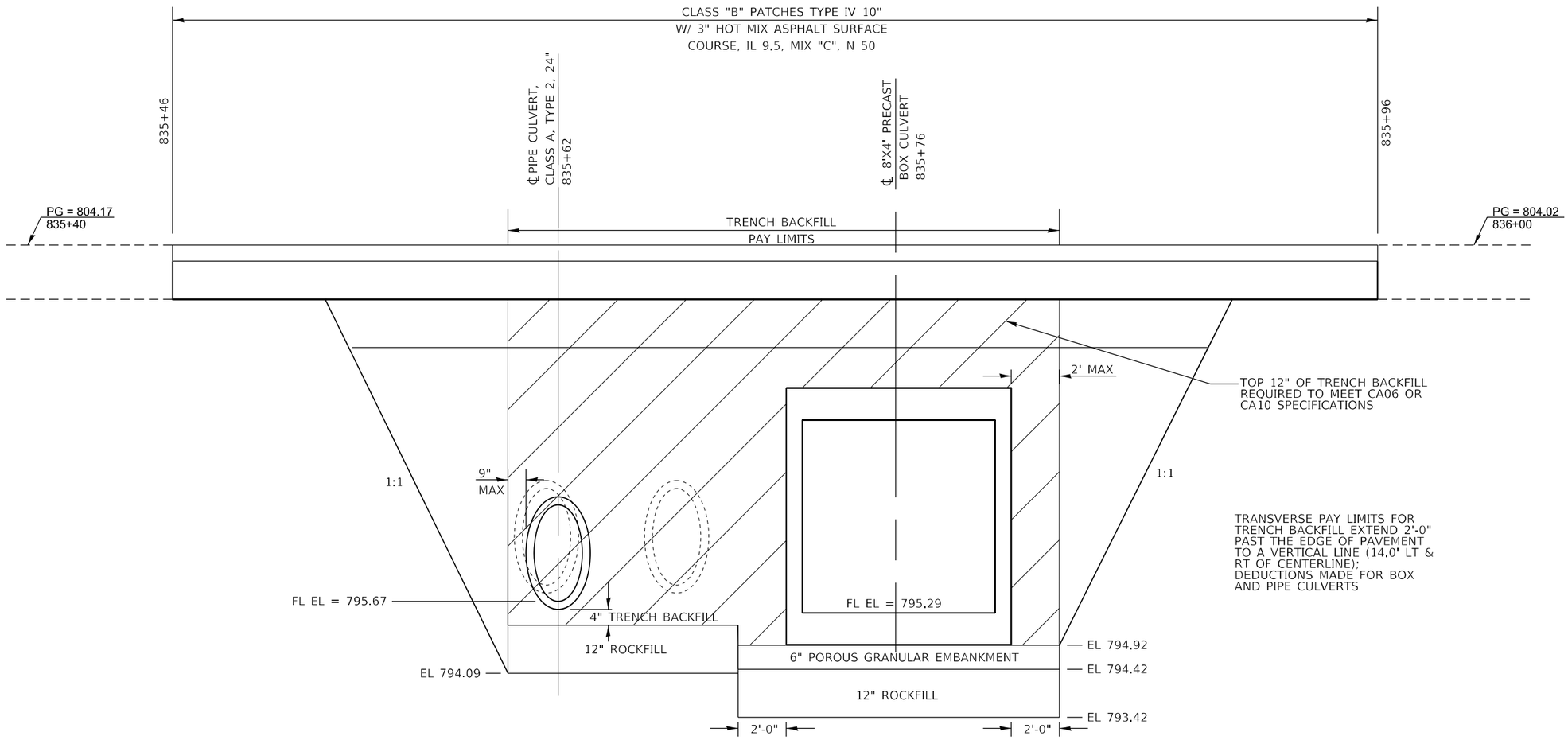
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**US 52 DETAILS TEMPORARY SOIL RETENTION**
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE: N.T.S. | SHEET 1 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	27
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



TRANSVERSE PAY LIMITS FOR TRENCH BACKFILL EXTEND 2'-0" PAST THE EDGE OF PAVEMENT TO A VERTICAL LINE (14.0' LT & RT OF CENTERLINE); DEDUCTIONS MADE FOR BOX AND PIPE CULVERTS

CULVERT FOUNDATION AND BACKFILL

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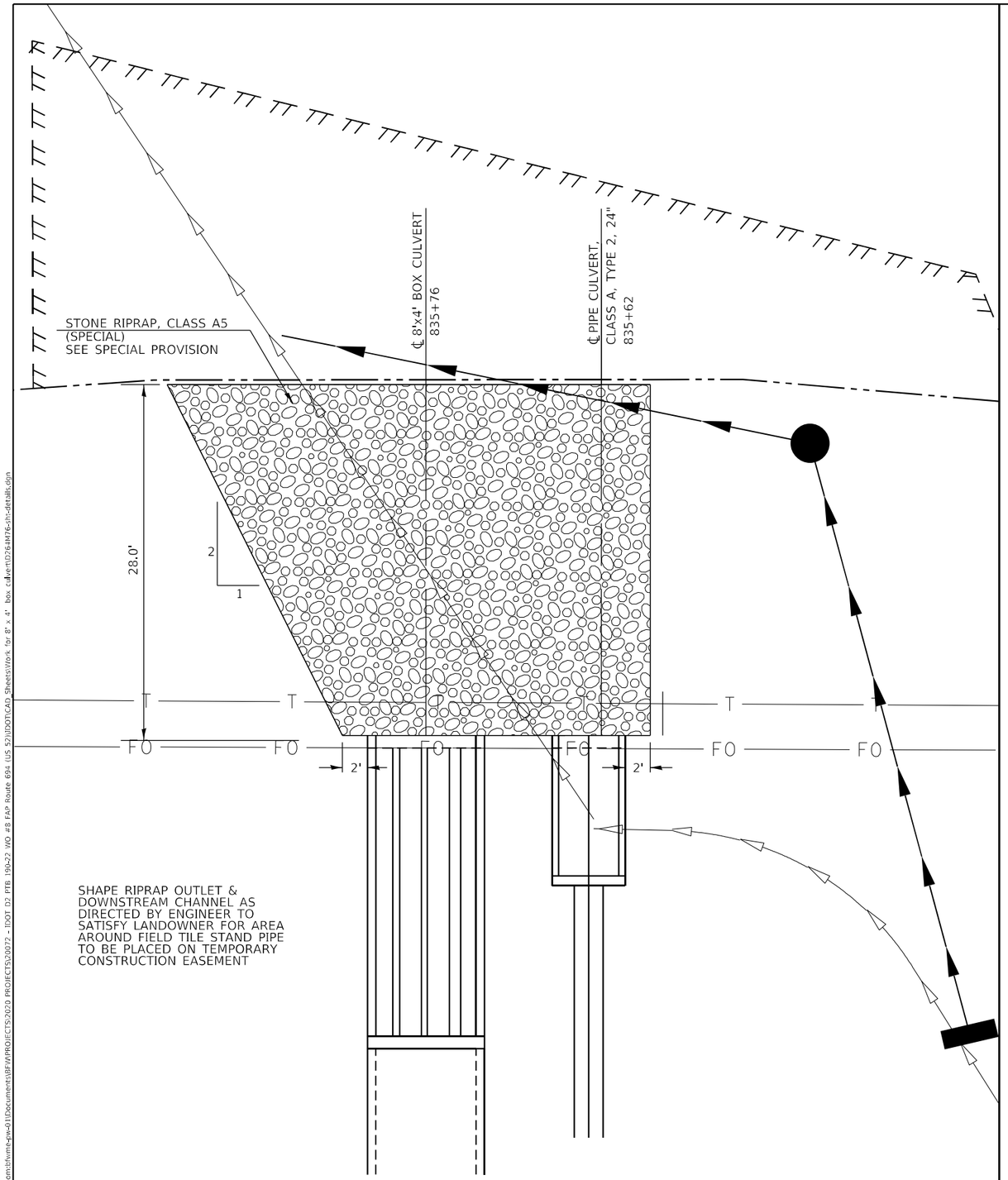
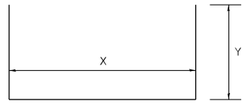
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 52 DETAILS CULVERT FOUNDATION AND BACKFILL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					694	75CR	LEE	50	28
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 64M76		
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE: N.T.S.	SHEET 2 OF 4 SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		



RIPRAP DETAIL FOR OUTLET

Bill of Materials

Location	Size	h bar	U bar dimensions				REINF. BARS	EXPANSION BOLTS 3/4"	CONCRETE COLLAR
Station	Pipe to Pipe	Quantity	X	Y	Length	Quantity	LBS	EACH	Cu. Yds.
LT 835+29.3	12" to 12"	8	24	16	4'-8"	4	20.5		0.42
RT 835±30	8" to 12"	8	24	16	4'-8"	4	20.5		0.45
Contingency	12" to 6"	8	24	16	4'-8"	4	20.5		0.46
					Subtotal		61.5		1.33
						Total	70		1.4



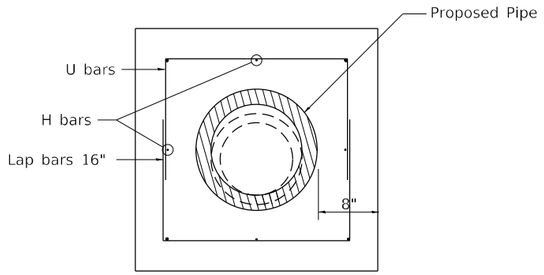
(#4) U bar

General Notes

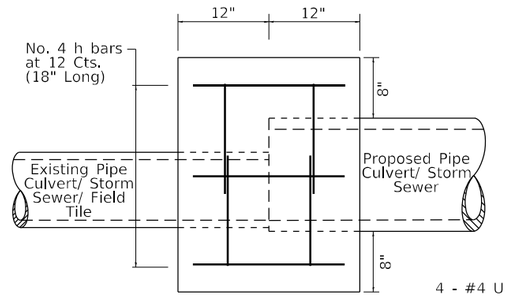
Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

Reinforcement bars shall conform to Section 508 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic yard for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per pound for REINFORCEMENT BARS.



END VIEW



ELEVATION VIEW

CONCRETE COLLAR
PIPE TO PIPE

MODEL: Default
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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/13/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52 DETAILS
RIPRAP & CONCRETE COLLAR DETAILS

SCALE: N.T.S | SHEET 3 OF 4 SHEETS | STA. | TO STA.

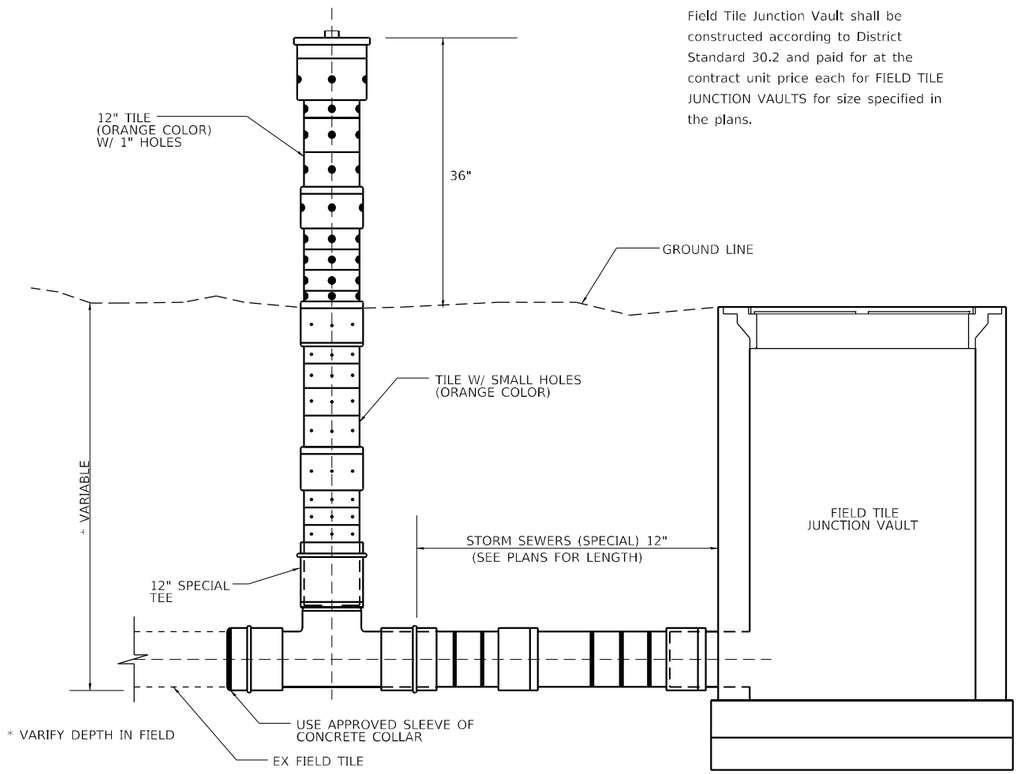
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	29
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

Inlet Stand Pipe

Inlet Stand Pipe shall be included in the contract unit price per FOOT for STORM SEWERS (SPECIAL) 12". Which shall include the following items--one 36" above ground section with 1" holes, one variable depth below ground section with small holes, one 12" tee section, collars (if needed) and end caps (if needed) as directed by the engineer.

Storm Sewer shall be paid for at the contract unit price per foot for STORM SEWERS (SPECIAL) 12". According to Article 611.04.

Field Tile Junction Vault shall be constructed according to District Standard 30.2 and paid for at the contract unit price each for FIELD TILE JUNCTION VAULTS for size specified in the plans.



INLET STAND PIPE

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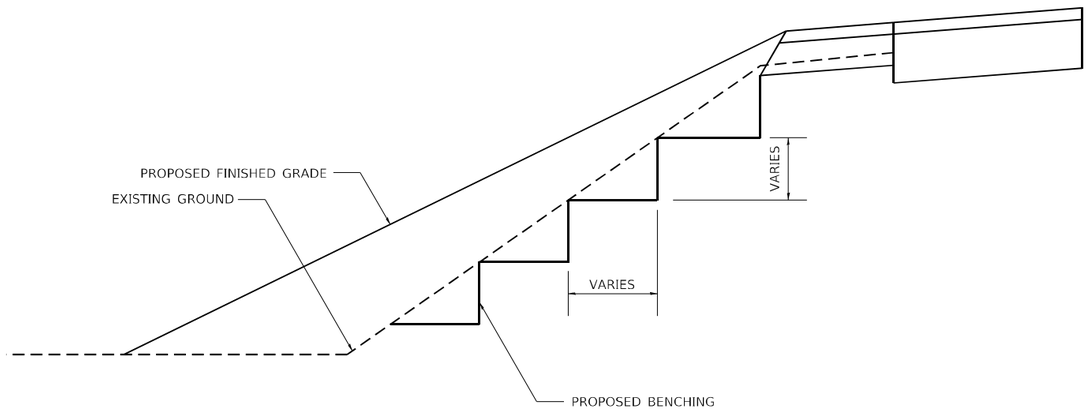
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**US 52 DETAILS INLET STAND PIPE**
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE: N.T.S | SHEET 4 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	30
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

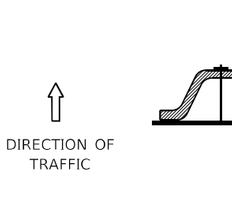
TYPICAL BENCHING ON EXISTING EMBANKMENT

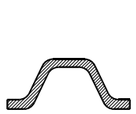


REVISED - 2-22-06

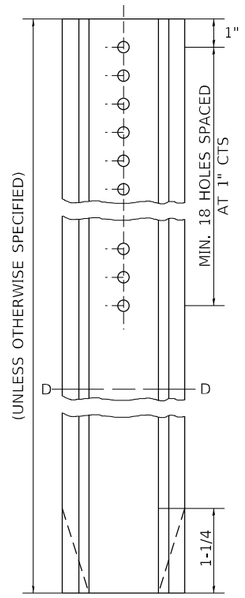
TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

DELINEATOR AND POST ORIENTATION





SECTION D-D



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

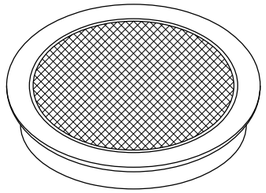
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

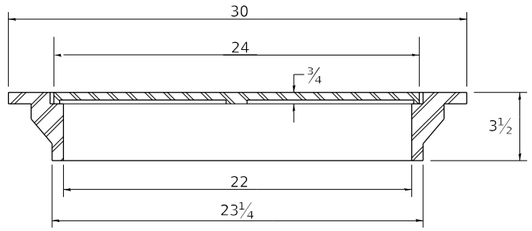
DELINEATOR AND POST ORIENTATION 37.4

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA.

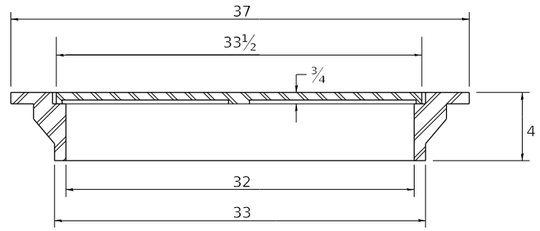
FRAME & LID FOR 2' VAULT



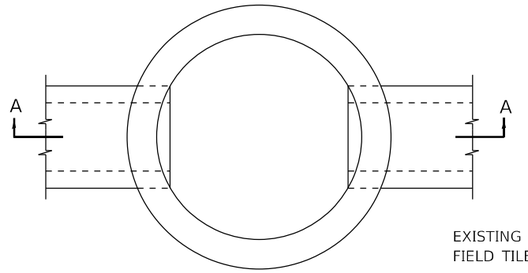
FRAME & LID FOR 3' VAULT



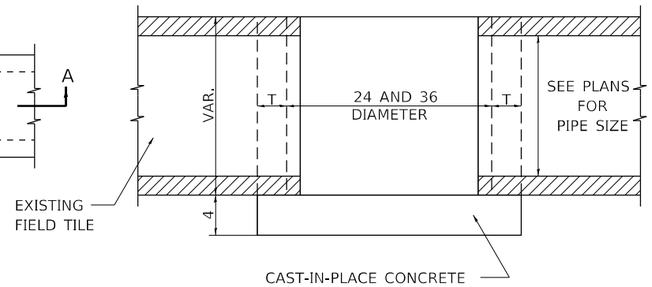
TOTAL WEIGHT: 146 LBS.



TOTAL WEIGHT: 280 LBS.



PLAN



SECTION A-A

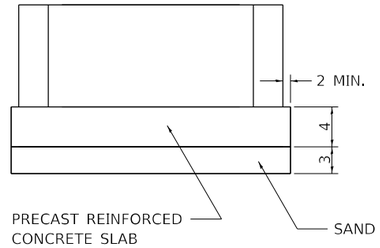
GENERAL NOTES:

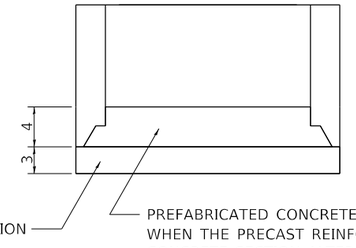
THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.
THE FRAME AND LID SHALL BE INSTALLED FLUSH WITH THE GROUND.

FRAME AND LIDS:

R-6040 OR EQUIVALENT (2')
R-6080 OR EQUIVALENT (3')

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8
CAST-IN-PLACE CONCRETE	6
CONCRETE MASONRY UNIT	5
PRECAST REINFORCED CONCRETE SECTION	3





ALTERNATE METHODS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-03-18
REVISED - 6-27-14
REVISED 10-14-11

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA. 30.2

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/11/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

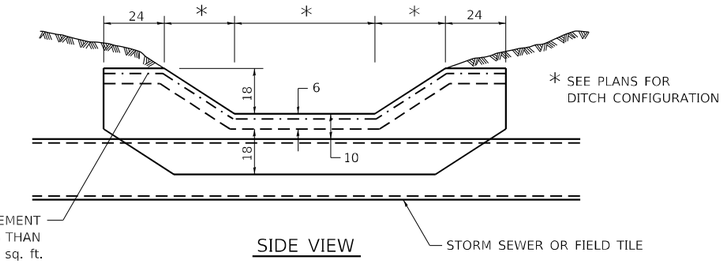
SCALE: | SHEET 1 OF 13 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	31
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

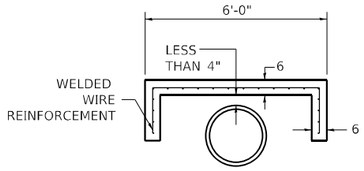
TREATMENT OF FIELD TILE SYSTEMS UNDER DITCHES

PAVED DITCH

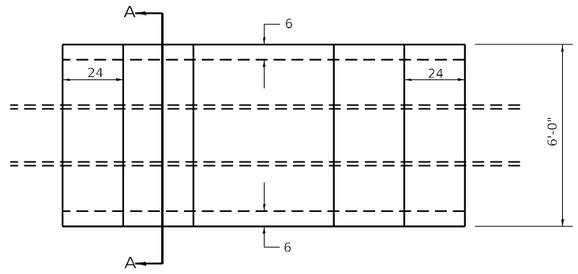
TO BE USED IF COVER OVER THE PIPE AT THE BOTTOM OF THE DITCH IS LESS THAN 10 inches



SIDE VIEW



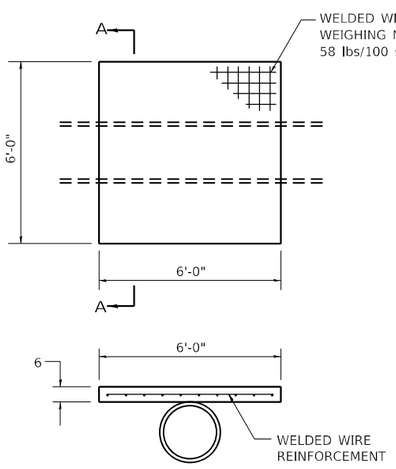
SECTION A-A



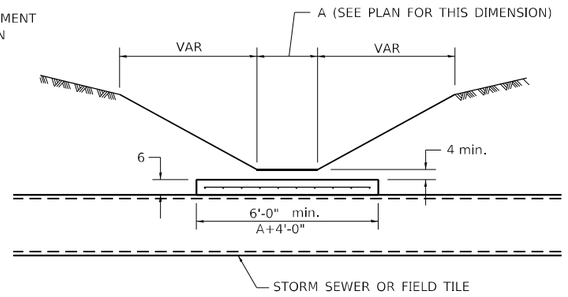
PLAN VIEW

CONCRETE SLAB

TO BE USED IF COVER OVER THE PIPE AT THE BOTTOM OF THE DITCH IS 10 INCHES TO 24 INCHES



SECTION A-A



NOTES

THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 611.04 OF THE STANDARD SPECIFICATION.

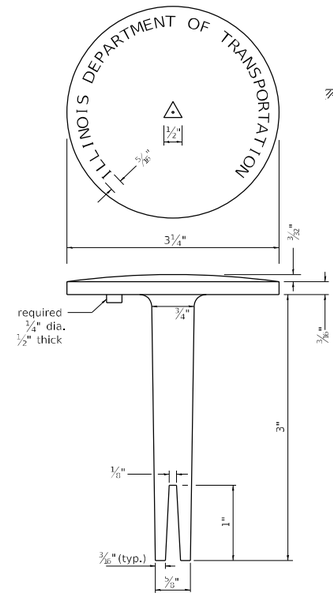
THE CONCRETE SLAB AND PAVED DITCH WILL BE PAID FOR AT THE CONCRETE UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

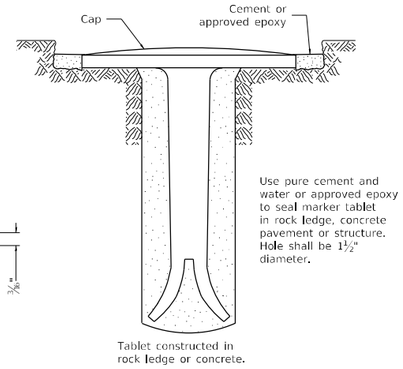
REVISED - 1-05-16
REVISED - 10-14-11

TREATMENT OF FIELD TILE SYSTEMS UNDER DITCHES **31.2**

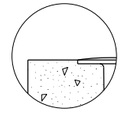
PERMANENT SURVEY MARKERS, TYPE II



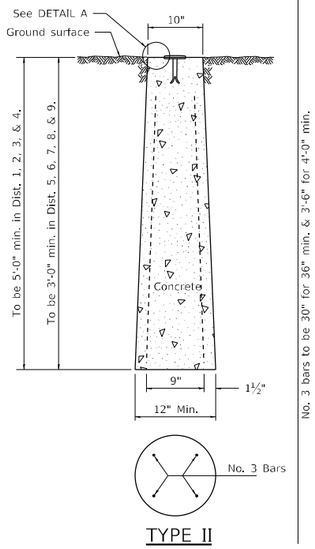
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A

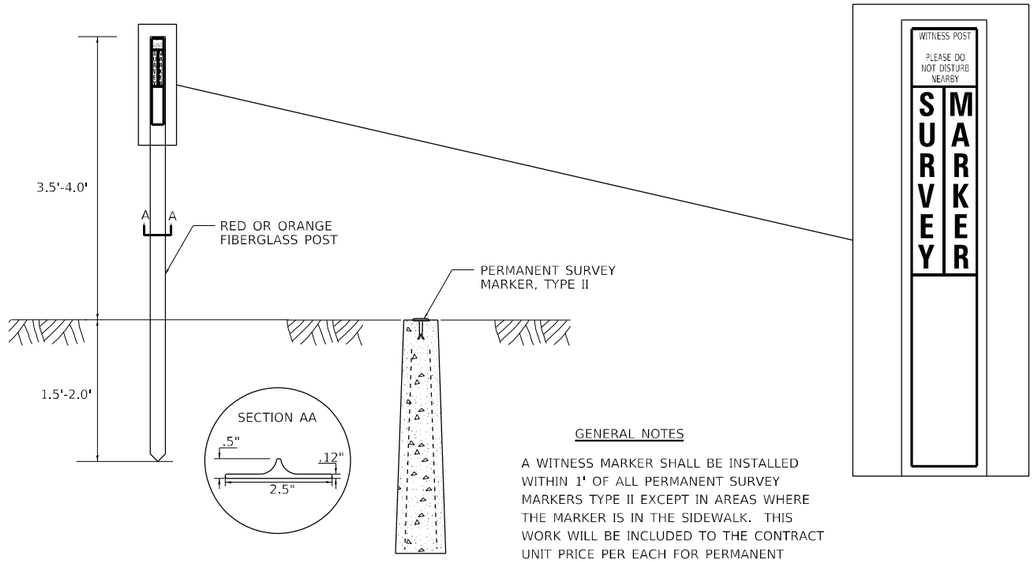


TYPE II

CAST-IN-PLACE MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

REVISED - 6-27-14
REVISED - 10-14-11

PERMANENT SURVEY MARKERS, TYPE II **66.2**

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

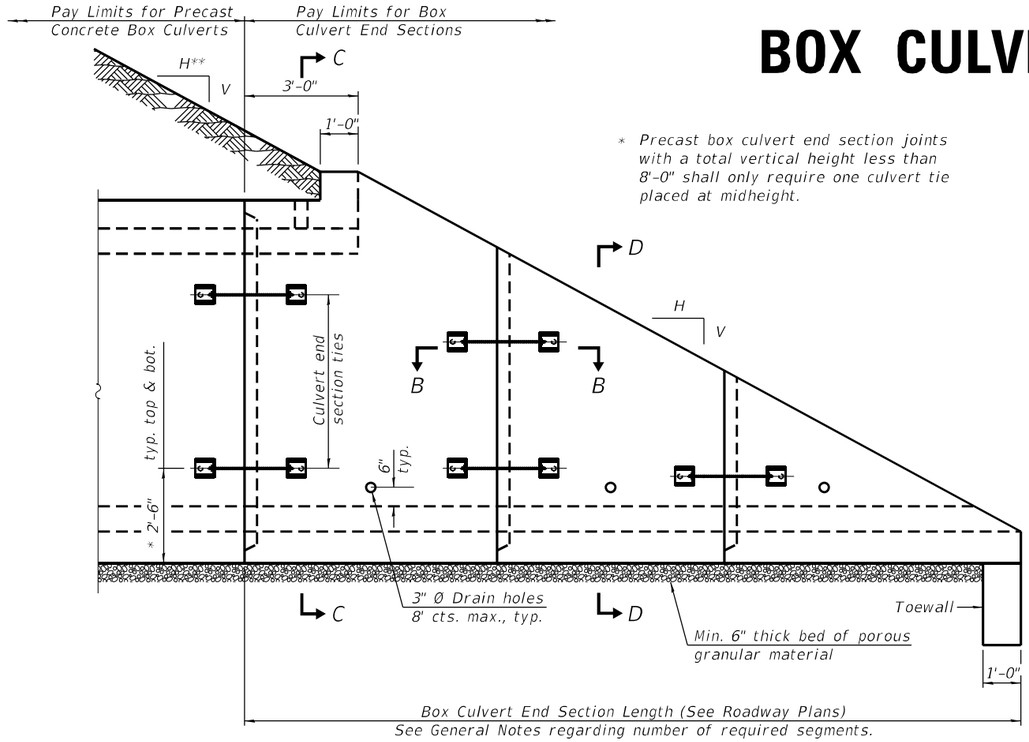
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 2 OF 13 SHEETS | STA. | TO STA.

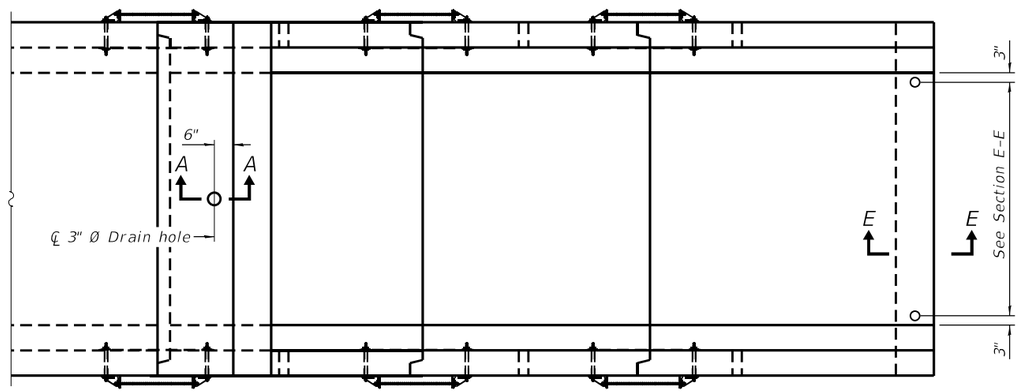
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	32
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

BOX CULVERT END SECTIONS

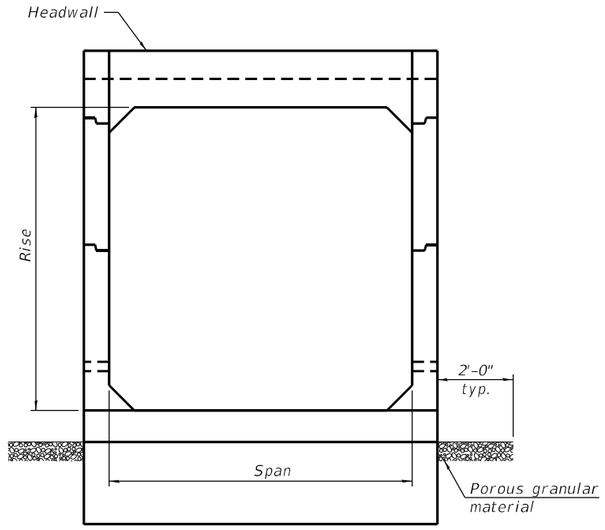


* Precast box culvert end section joints with a total vertical height less than 8'-0" shall only require one culvert tie placed at midheight.

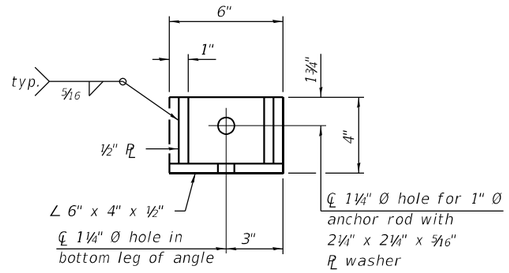
ELEVATION



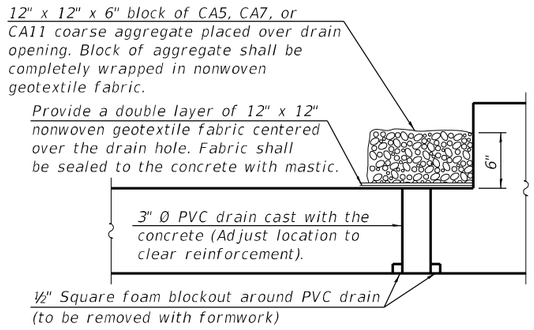
PLAN



END VIEW



RESTRAINT ANGLE DETAIL



SECTION A-A

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

GENERAL NOTES

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

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

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

** See roadway plans for embankment slope (V:H).

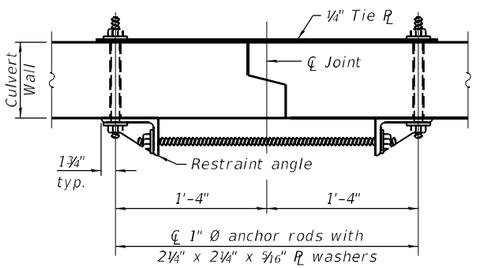
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼" x 2¼" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

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

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

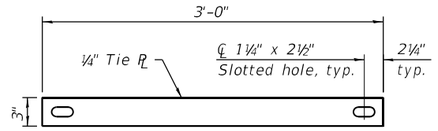
Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



SECTION B-B

(Showing end section tie details)



TIE PLATE DETAIL

BOX CULVERT END SECTIONS 10.1

(Sheet 1 of 2)

SCB-TES 5-15-2023

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BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -	1-10-18
	DRAWN -	REVISED -	1-05-16
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	5-09-14
PLOT DATE = 2/11/2025	DATE -	REVISED -	

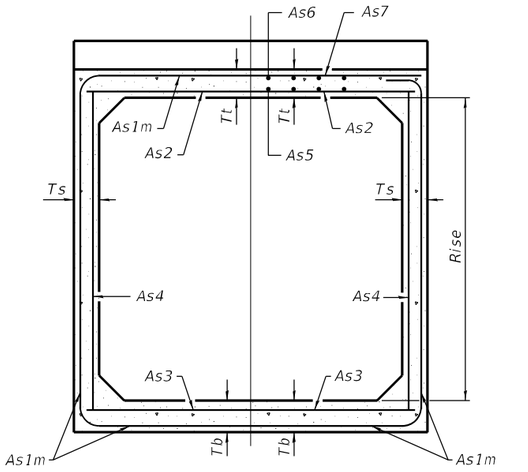
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 3 OF 13 SHEETS | STA. | TO STA.

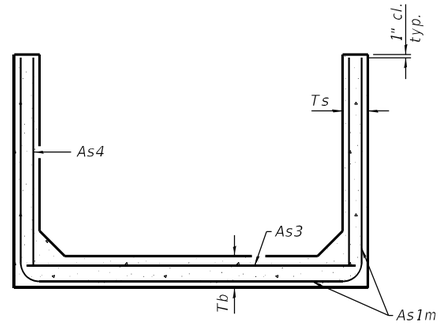
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	33
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

BOX CULVERT END SECTIONS

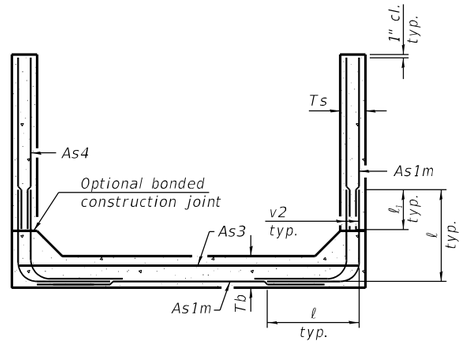


(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)

SECTION C-C



SECTION D-D



ALTERNATE SECTION D-D

As1m REINFORCEMENT
(in.²/ ft)

Ts (in.) \ Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6	0.22	0.26	0.23	0.22							
7	0.25	0.33	0.59	0.27	0.28						
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40				
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48			
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56		
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65	
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

ℓ_1 DIMENSION

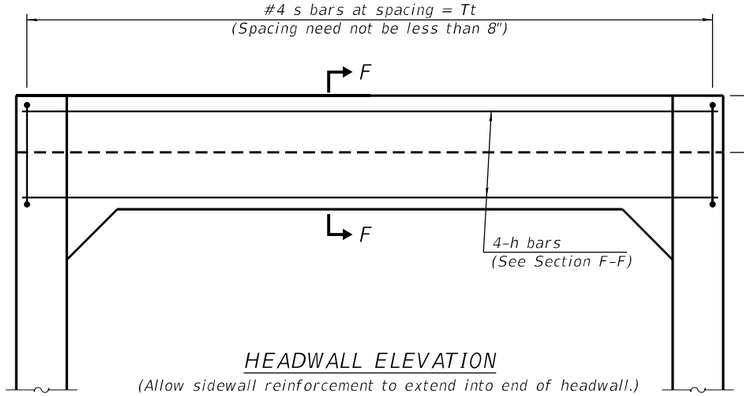
#3 bar = 2'-0"
#4 bar = 2'-8"
#5 bar = 3'-4"
#6 bar = 3'-11"

Notes:

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

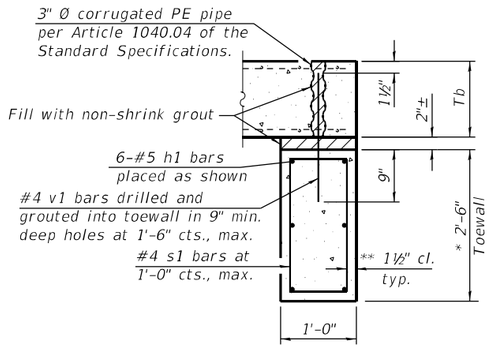
Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



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

BAR s

BAR s1



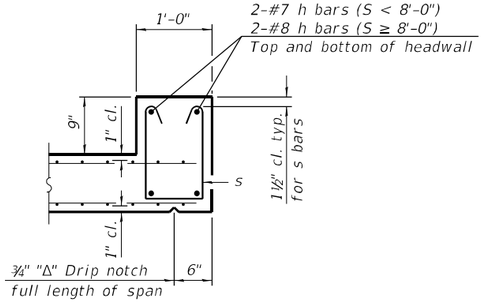
SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION F-F

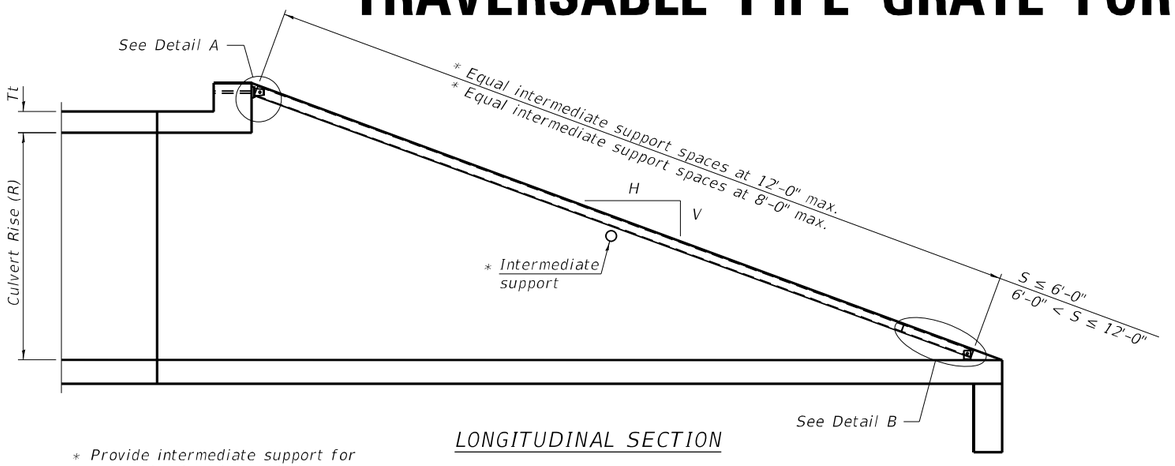
SCB-TES 5-15-2023

BOX CULVERT END SECTIONS **10.1**

(Sheet 2 of 2)

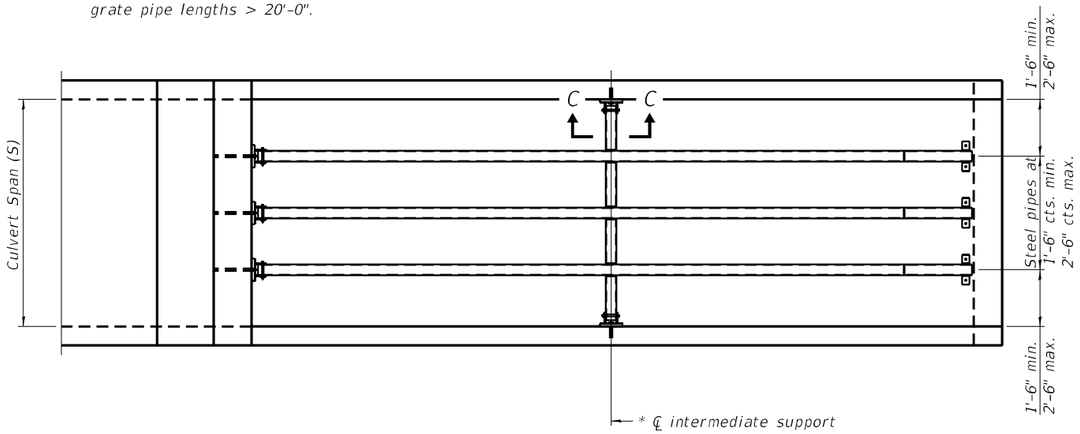
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED - 1-10-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - 1-05-16			694	75CR	LEE	50	34
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - 5-09-14					CONTRACT NO. 64M76		
	PLOT DATE = 2/11/2025	DATE -	REVISED -		SCALE: SHEET 4 OF 13 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS

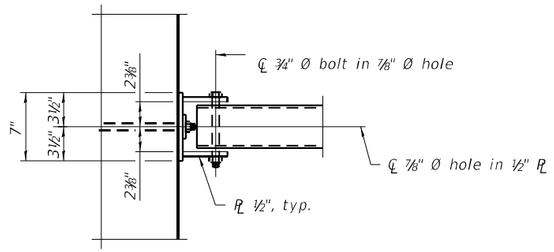


LONGITUDINAL SECTION

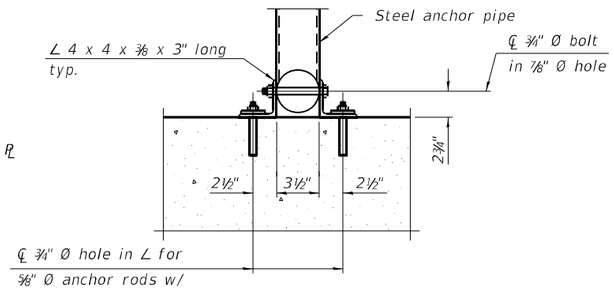
* Provide intermediate support for grate pipe lengths > 20'-0".



PLAN VIEW



VIEW A-A



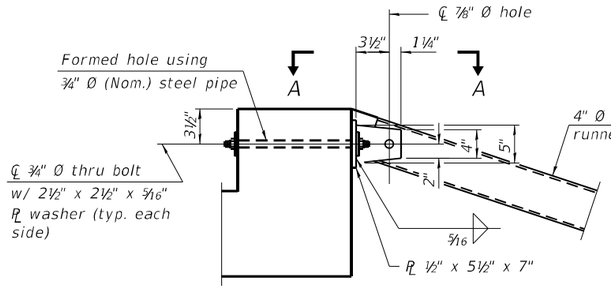
SECTION B-B

GENERAL NOTES

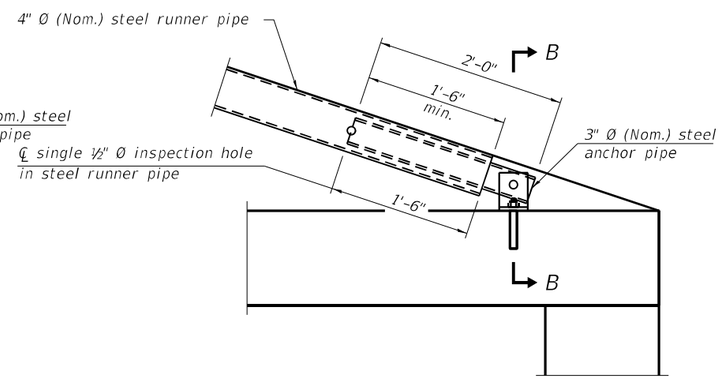
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.

This standard shall only be used on concrete end sections not skewed more than ±15 degrees with roadway.

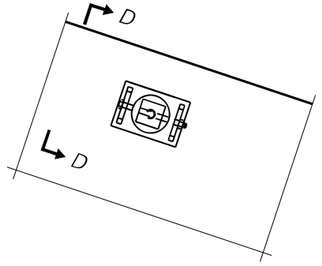
The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completed filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional ⅓ turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.



DETAIL A

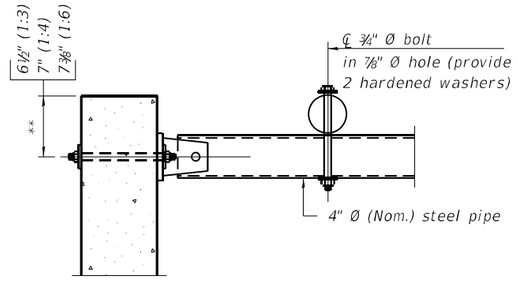


DETAIL B



VIEW C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

TPGBC-ZS

5-15-2023

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS 13.1

(Sheet 1 of 2)

MODEL: Default
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BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -	1-10-18
	DRAWN -	REVISED -	5-09-14
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/11/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 5 OF 13 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	35
		CONTRACT NO. 64M76		
	ILLINOIS FED. AID PROJECT			

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS

PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

Precast Box Culvert Dimensions			Slope of End Section								
			1:3			1:4			1:6		
S (ft)	R (ft)	Tt (in)	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
4	2	7.5	1 @ 8'-10"	N/A	8'-10"	1 @ 11'-7"	N/A	11'-7"	1 @ 17'-2"	N/A	17'-2"
4	2	5	1 @ 8'-2"	N/A	8'-2"	1 @ 10'-8"	N/A	10'-8"	1 @ 15'-11"	N/A	15'-11"
4	3	7.5	1 @ 12'-0"	N/A	12'-0"	1 @ 15'-8"	N/A	15'-8"	1 @ 23'-3"	1 @ 3'-7"	26'-10"
4	3	5	1 @ 11'-4"	N/A	11'-4"	1 @ 14'-10"	N/A	14'-10"	1 @ 22'-0"	1 @ 3'-7"	25'-7"
4	4	7.5	1 @ 15'-2"	N/A	15'-2"	1 @ 19'-10"	1 @ 3'-7"	23'-5"	1 @ 29'-4"	2 @ 3'-7"	36'-6"
4	4	5	1 @ 14'-6"	N/A	14'-6"	1 @ 18'-11"	N/A	18'-11"	1 @ 28'-1"	2 @ 3'-7"	35'-3"
5	2	8	1 @ 8'-11"	N/A	8'-11"	1 @ 11'-9"	N/A	11'-9"	1 @ 17'-5"	N/A	17'-5"
5	2	6	1 @ 8'-5"	N/A	8'-5"	1 @ 11'-1"	N/A	11'-1"	1 @ 16'-5"	N/A	16'-5"
5	3	8	1 @ 12'-1"	N/A	12'-1"	1 @ 15'-10"	N/A	15'-10"	1 @ 23'-6"	1 @ 4'-7"	28'-1"
5	3	6	1 @ 11'-7"	N/A	11'-7"	1 @ 15'-2"	N/A	15'-2"	1 @ 22'-6"	1 @ 4'-7"	27'-1"
5	4	8	1 @ 15'-3"	N/A	15'-3"	1 @ 20'-0"	1 @ 4'-7"	24'-7"	1 @ 29'-7"	2 @ 4'-7"	38'-9"
5	4	6	1 @ 14'-9"	N/A	14'-9"	1 @ 19'-3"	N/A	19'-3"	1 @ 28'-7"	2 @ 4'-7"	37'-9"
5	5	8	1 @ 18'-5"	N/A	18'-5"	1 @ 24'-1"	2 @ 4'-7"	33'-3"	1 @ 35'-8"	3 @ 4'-7"	49'-5"
5	5	6	1 @ 17'-11"	N/A	17'-11"	1 @ 23'-5"	1 @ 4'-7"	28'-0"	1 @ 34'-8"	2 @ 4'-7"	43'-10"
6	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
6	2	7	2 @ 8'-8"	N/A	17'-4"	2 @ 11'-5"	N/A	22'-10"	2 @ 16'-11"	N/A	33'-10"
6	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	1 @ 5'-7"	52'-7"
6	3	7	2 @ 11'-10"	N/A	23'-8"	2 @ 15'-6"	N/A	31'-0"	2 @ 23'-0"	1 @ 5'-7"	51'-7"
6	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	1 @ 5'-7"	45'-7"	2 @ 29'-7"	2 @ 5'-7"	70'-4"
6	4	7	2 @ 15'-0"	N/A	30'-0"	2 @ 19'-8"	1 @ 5'-7"	44'-11"	2 @ 29'-1"	2 @ 5'-7"	69'-4"
6	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	2 @ 5'-7"	59'-4"	2 @ 35'-8"	3 @ 5'-7"	88'-1"
6	5	7	2 @ 18'-2"	N/A	36'-4"	2 @ 23'-9"	2 @ 5'-7"	58'-8"	2 @ 35'-2"	2 @ 5'-7"	81'-6"
6	6	8	2 @ 21'-7"	1 @ 5'-7"	48'-9"	2 @ 28'-3"	2 @ 5'-7"	67'-8"	2 @ 41'-9"	3 @ 5'-7"	100'-3"
6	6	7	2 @ 21'-4"	1 @ 5'-7"	48'-3"	2 @ 27'-11"	2 @ 5'-7"	67'-0"	2 @ 41'-3"	3 @ 5'-7"	99'-3"
7	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
7	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	2 @ 6'-7"	60'-2"
7	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	2 @ 6'-7"	53'-2"	2 @ 29'-7"	3 @ 6'-7"	78'-11"
7	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	3 @ 6'-7"	67'-11"	2 @ 35'-8"	4 @ 6'-7"	97'-8"
7	6	8	2 @ 21'-7"	2 @ 6'-7"	56'-4"	2 @ 28'-3"	3 @ 6'-7"	76'-3"	2 @ 41'-9"	5 @ 6'-7"	116'-5"
7	7	8	2 @ 24'-9"	3 @ 6'-7"	69'-3"	2 @ 32'-4"	4 @ 6'-7"	91'-0"	2 @ 47'-10"	6 @ 6'-7"	135'-2"
8	2	8	3 @ 8'-11"	N/A	26'-9"	3 @ 11'-9"	N/A	35'-3"	3 @ 17'-5"	N/A	52'-3"
8	3	8	3 @ 12'-1"	N/A	36'-3"	3 @ 15'-10"	N/A	47'-6"	3 @ 23'-6"	2 @ 7'-7"	85'-8"
8	4	8	3 @ 15'-3"	N/A	45'-9"	3 @ 20'-0"	2 @ 7'-7"	75'-2"	3 @ 29'-7"	3 @ 7'-7"	111'-6"
8	5	8	3 @ 18'-5"	N/A	55'-3"	3 @ 24'-1"	3 @ 7'-7"	95'-0"	3 @ 35'-8"	4 @ 7'-7"	137'-4"
8	6	8	3 @ 21'-7"	2 @ 7'-7"	79'-11"	3 @ 28'-3"	3 @ 7'-7"	107'-6"	3 @ 41'-9"	5 @ 7'-7"	163'-2"
8	7	8	3 @ 24'-9"	3 @ 7'-7"	97'-0"	3 @ 32'-4"	4 @ 7'-7"	127'-4"	3 @ 47'-10"	6 @ 7'-7"	189'-0"
8	8	8	3 @ 27'-11"	3 @ 7'-7"	106'-6"	3 @ 36'-6"	4 @ 7'-7"	139'-10"	3 @ 53'-11"	6 @ 7'-7"	207'-3"
9	2	9	3 @ 9'-3"	N/A	27'-9"	3 @ 12'-1"	N/A	36'-3"	3 @ 17'-11"	N/A	53'-9"
9	3	9	3 @ 12'-4"	N/A	37'-0"	3 @ 16'-2"	N/A	48'-6"	3 @ 24'-0"	3 @ 8'-7"	97'-9"
9	4	9	3 @ 15'-6"	N/A	46'-6"	3 @ 20'-4"	2 @ 8'-7"	78'-2"	3 @ 30'-1"	3 @ 8'-7"	116'-0"
9	5	9	3 @ 18'-8"	N/A	56'-0"	3 @ 24'-5"	3 @ 8'-7"	99'-0"	3 @ 36'-2"	4 @ 8'-7"	142'-10"
9	6	9	3 @ 21'-10"	2 @ 8'-7"	82'-8"	3 @ 28'-7"	3 @ 8'-7"	111'-6"	3 @ 42'-3"	5 @ 8'-7"	169'-8"
9	7	9	3 @ 25'-0"	3 @ 8'-7"	100'-9"	3 @ 32'-8"	4 @ 8'-7"	132'-4"	3 @ 48'-4"	6 @ 8'-7"	196'-6"
9	8	9	3 @ 28'-2"	3 @ 8'-7"	110'-3"	3 @ 36'-10"	4 @ 8'-7"	144'-10"	3 @ 54'-5"	6 @ 8'-7"	214'-9"
9	9	9	3 @ 31'-4"	3 @ 8'-7"	119'-9"	3 @ 40'-11"	5 @ 8'-7"	165'-8"	3 @ 60'-6"	7 @ 8'-7"	241'-7"
10	2	10	3 @ 9'-6"	N/A	28'-6"	3 @ 12'-5"	N/A	37'-3"	3 @ 18'-5"	N/A	55'-3"
10	3	10	3 @ 12'-8"	N/A	38'-0"	3 @ 16'-6"	N/A	49'-6"	3 @ 24'-6"	3 @ 9'-7"	102'-3"
10	4	10	3 @ 15'-10"	N/A	47'-6"	3 @ 20'-8"	2 @ 9'-7"	81'-2"	3 @ 30'-7"	3 @ 9'-7"	120'-6"
10	5	10	3 @ 19'-0"	N/A	57'-0"	3 @ 24'-9"	3 @ 9'-7"	103'-0"	3 @ 36'-8"	4 @ 9'-7"	148'-4"
10	6	10	3 @ 22'-1"	2 @ 9'-7"	85'-5"	3 @ 28'-11"	3 @ 9'-7"	115'-6"	3 @ 42'-9"	5 @ 9'-7"	176'-2"
10	7	10	3 @ 25'-3"	3 @ 9'-7"	104'-6"	3 @ 33'-0"	4 @ 9'-7"	137'-4"	3 @ 48'-10"	6 @ 9'-7"	204'-0"
10	8	10	3 @ 28'-5"	3 @ 9'-7"	114'-0"	3 @ 37'-2"	4 @ 9'-7"	149'-10"	3 @ 54'-11"	6 @ 9'-7"	222'-3"
10	9	10	3 @ 31'-7"	4 @ 9'-7"	133'-1"	3 @ 41'-3"	5 @ 9'-7"	171'-8"	3 @ 61'-0"	7 @ 9'-7"	250'-1"
10	10	10	3 @ 34'-9"	4 @ 9'-7"	142'-7"	3 @ 45'-5"	5 @ 9'-7"	184'-2"	3 @ 67'-1"	8 @ 9'-7"	277'-11"
11	2	11	4 @ 9'-9"	N/A	39'-0"	4 @ 12'-9"	N/A	51'-0"	4 @ 18'-11"	N/A	75'-8"
11	3	11	4 @ 12'-11"	N/A	51'-8"	4 @ 16'-11"	N/A	67'-8"	4 @ 25'-0"	3 @ 10'-7"	131'-9"
11	4	11	4 @ 16'-1"	N/A	64'-4"	4 @ 21'-0"	2 @ 10'-7"	105'-2"	4 @ 31'-1"	3 @ 10'-7"	156'-1"
11	6	11	4 @ 22'-5"	2 @ 10'-7"	110'-10"	4 @ 29'-3"	3 @ 10'-7"	148'-9"	4 @ 43'-3"	5 @ 10'-7"	225'-11"
11	8	11	4 @ 28'-9"	3 @ 10'-7"	146'-9"	4 @ 37'-6"	4 @ 10'-7"	192'-4"	4 @ 55'-5"	6 @ 10'-7"	285'-2"
11	10	11	4 @ 35'-0"	4 @ 10'-7"	182'-4"	4 @ 45'-9"	5 @ 10'-7"	235'-11"	4 @ 67'-7"	8 @ 10'-7"	355'-0"
11	11	11	4 @ 38'-2"	4 @ 10'-7"	195'-0"	4 @ 49'-10"	6 @ 10'-7"	262'-10"	4 @ 73'-8"	9 @ 10'-7"	389'-11"
12	2	12	4 @ 10'-0"	N/A	40'-0"	4 @ 13'-1"	N/A	52'-4"	4 @ 19'-5"	N/A	77'-8"
12	3	12	4 @ 13'-2"	N/A	52'-8"	4 @ 17'-3"	N/A	69'-0"	4 @ 25'-6"	3 @ 11'-7"	136'-9"
12	4	12	4 @ 16'-4"	N/A	65'-4"	4 @ 21'-4"	2 @ 11'-7"	108'-6"	4 @ 31'-7"	4 @ 11'-7"	172'-8"
12	6	12	4 @ 22'-8"	2 @ 11'-7"	113'-10"	4 @ 29'-7"	3 @ 11'-7"	153'-1"	4 @ 43'-9"	5 @ 11'-7"	232'-11"
12	8	12	4 @ 29'-0"	3 @ 11'-7"	150'-9"	4 @ 37'-10"	4 @ 11'-7"	197'-8"	4 @ 55'-11"	7 @ 11'-7"	304'-9"
12	10	12	4 @ 35'-4"	4 @ 11'-7"	187'-8"	4 @ 46'-1"	5 @ 11'-7"	242'-3"	4 @ 68'-1"	8 @ 11'-7"	365'-0"
12	12	12	4 @ 41'-8"	5 @ 11'-7"	224'-7"	4 @ 54'-4"	6 @ 11'-7"	286'-10"	4 @ 80'-3"	10 @ 11'-7"	436'-10"

GENERAL NOTES

This table is only to be used for cross drainage structures.

TPGBC-ZS

5-15-2023

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS 13.1

(Sheet 2 of 2)

MODEL: Default
FILE NAME: z:\stbfvms-pw.bentley.com:bfvms-pw-01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8" x 4" box culvert\D2764M76-sht-D2 stds.dgn

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED - 1-10-18	
	DRAWN -	REVISED - 5-09-14	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/11/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

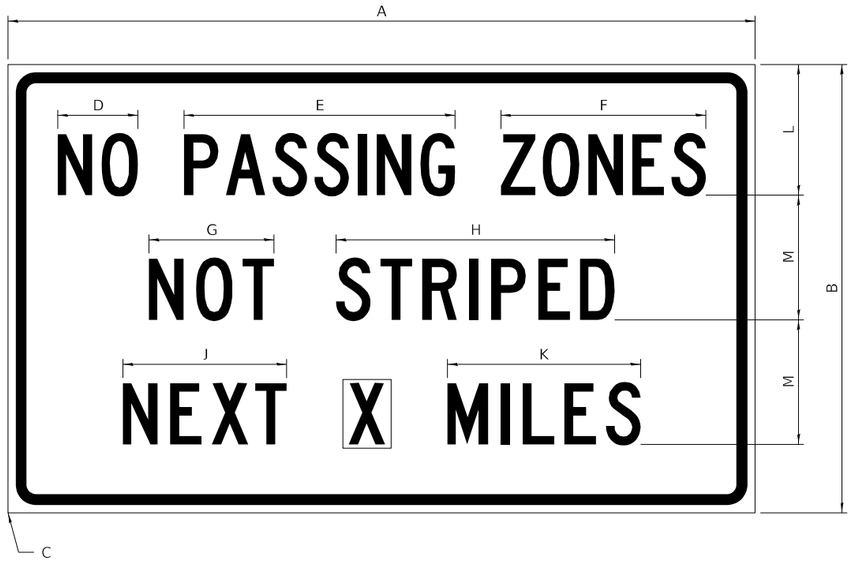
REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 6 OF 13 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	36
		CONTRACT NO. 64M76		
	ILLINOIS FED. AID PROJECT			

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20–I100



COLOR			
	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60,00	36,00	2,25	6,4	21,80	16,40	10,00	22,40	13,20	15,50	10,50	10,00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

GENERAL NOTES

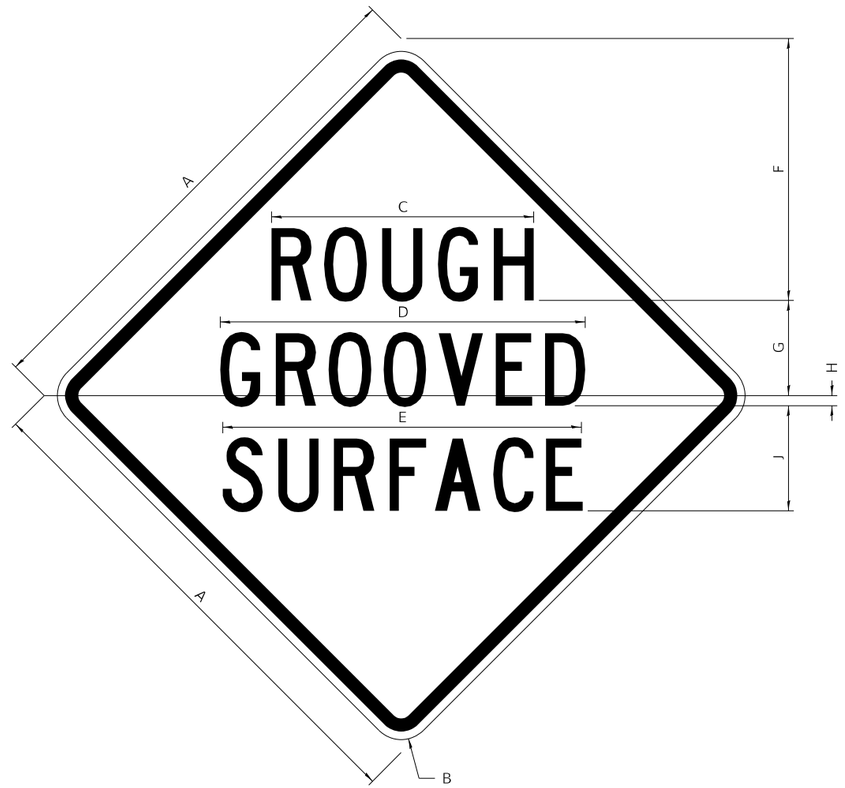
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8–I107



COLOR			
	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

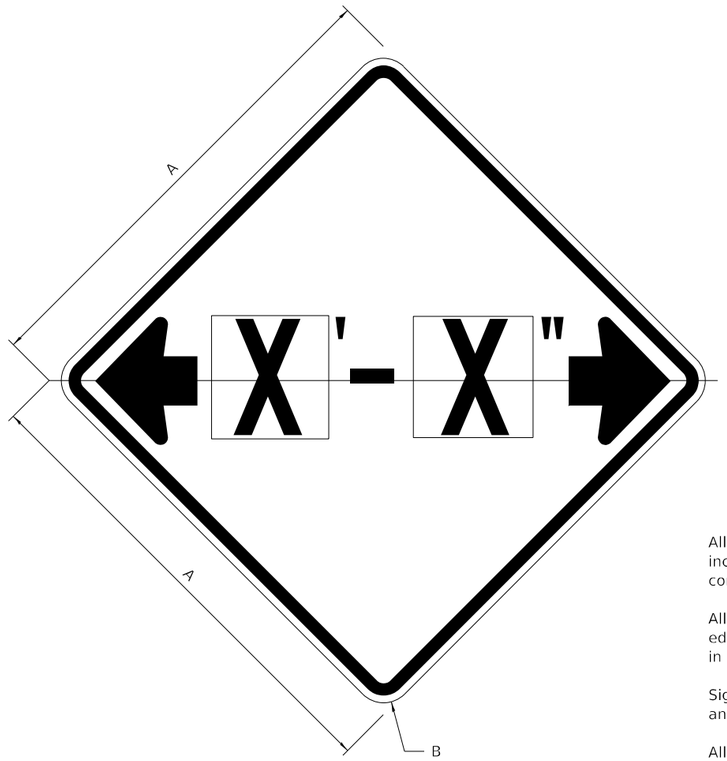
WORK ZONE SIGN DETAILS 34.1

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			694	75CR	LEE	50	37
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 64M76		
	PLOT DATE = 2/11/2025	DATE -	REVISED -		SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12–I102

(1)



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND FL ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

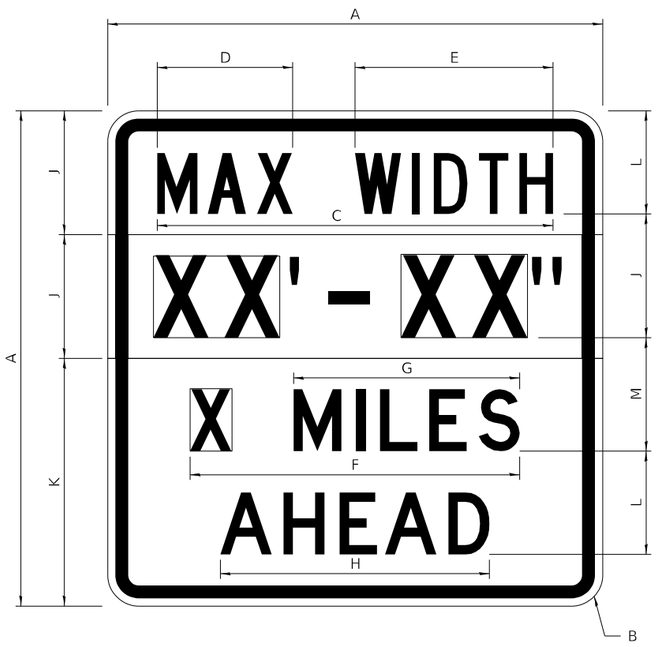
Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

(1) Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

ILLINOIS STANDARD W12–I103

(1)



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND WHITE REFLECTORIZED
BACKGROUND (WIDTH) FL ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE
TOP AND BOTTOM OF BACKGROUND WHITE

WORK ZONE SIGN DETAILS 34.1

MODEL: Default
FILE NAME: z:\sh\home-pw_ie-fly_com\chvms-pw-01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8" x 4" box culvert\D2641M76k-sht-D2-std.dgn

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

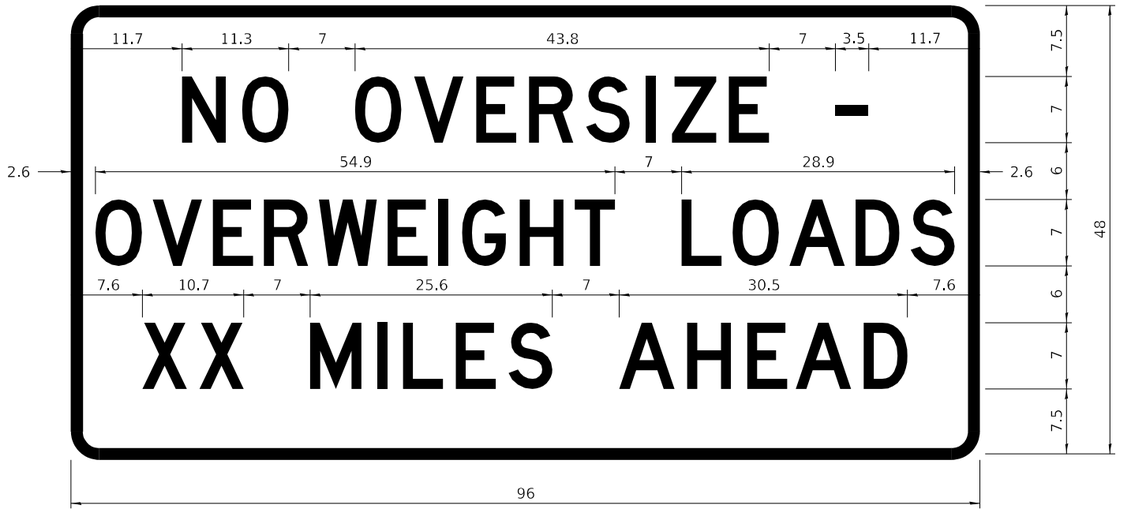
REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 8 OF 13 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	38
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND ORANGE REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
[NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
Table of letter and object lefts.

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

STOP LINE SIGN FOR TEMPORARY SIGNALS

COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND WHITE REFLECTORIZED

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

WORK ZONE SIGN DETAILS 34.1

MODEL: Default
FILE NAME: pw:\\bfwmis-pw.bacon-farmer-workman.com:bfwmis-pw-01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-23 WO #8 FAP Route 694 (US 52)\IDOT\CAD_Sheets\Work for 8" x 4" box culvert\D2364M76-sht-D2-std.dgn

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

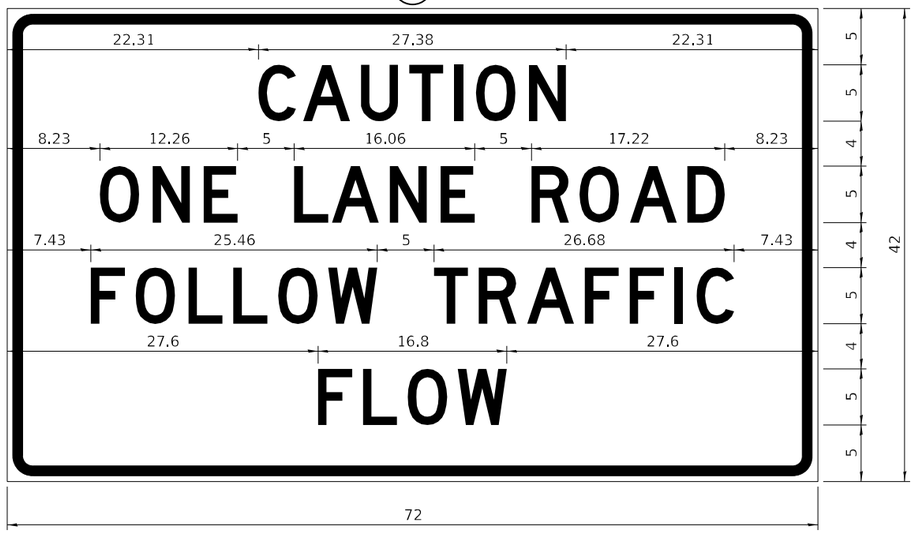
REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 9 OF 13 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	39
		CONTRACT NO. 64M76		
	ILLINOIS FED. AID PROJECT			

WORK ZONE SIGN DETAILS

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS (2)



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" IndenT;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

(2) This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31

8.23	O 3.51	1.17	N 3.36	1.18	E 3.04	

5.00	L 3.05	0.31	A 4.18	0.94	N 3.36	1.17	E 3.05

5.00	R 3.36	0.93	O 3.52	0.94	A 4.18	0.93	D 3.36	8.23

7.43	F 3.04	0.94	O 3.52	1.17	L 3.04	0.94	L 3.05	0.94	O 3.51	0.94	W 4.37

5.00	T 3.05	0.94	R 3.36	0.94	A 4.18	0.93	F 3.05	0.94	F 3.04	0.94	I 0.78	1.18	C 3.35	7.43

27.60	F 3.05	0.94	L 3.04	0.94	O 3.52	0.93	W 4.38	27.60

Sign not to scale

GENERAL NOTES

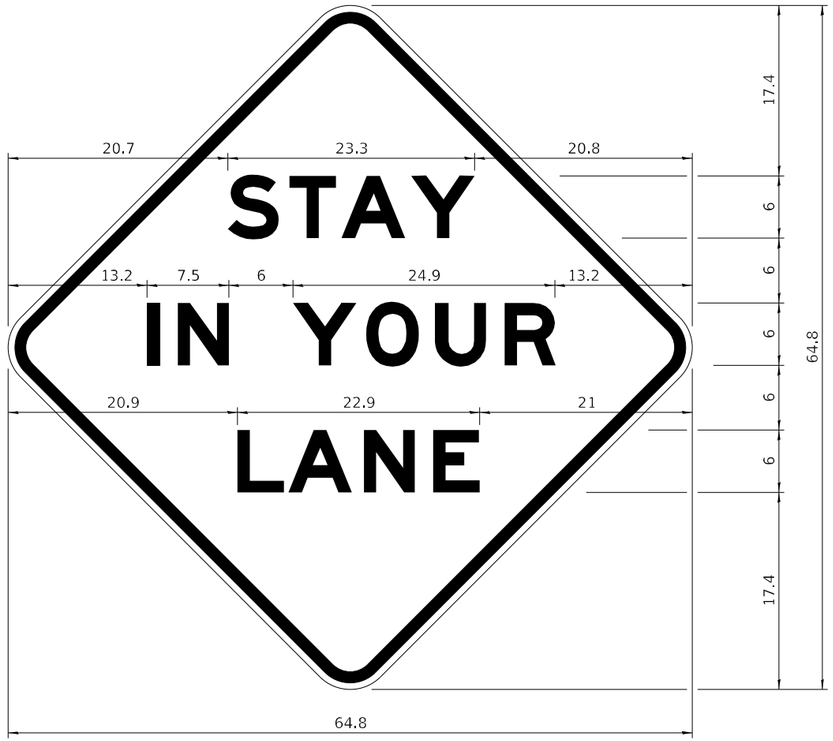
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S 20.7	T 26.8	A 31.6	Y 38.0

I 13.2	N 15.9	Y 26.7	O 33.9	U 40.5	R 46.8

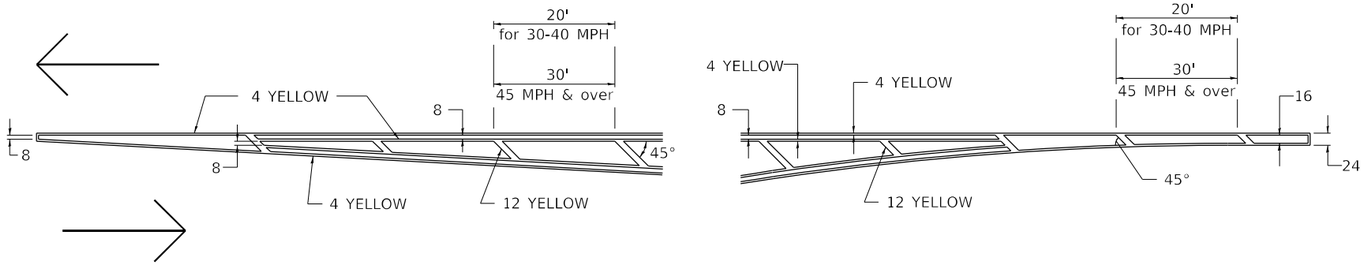
L 20.9	A 25.8	N 33.1	E 39.4

Sign not to scale

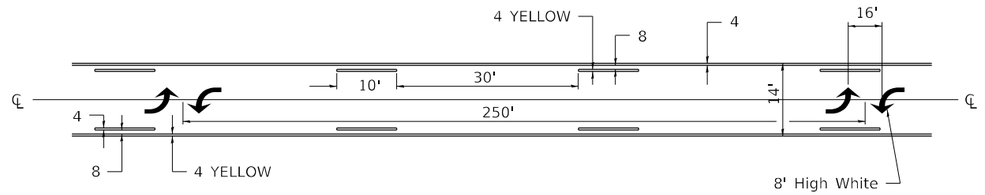
WORK ZONE SIGN DETAILS 34.1

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

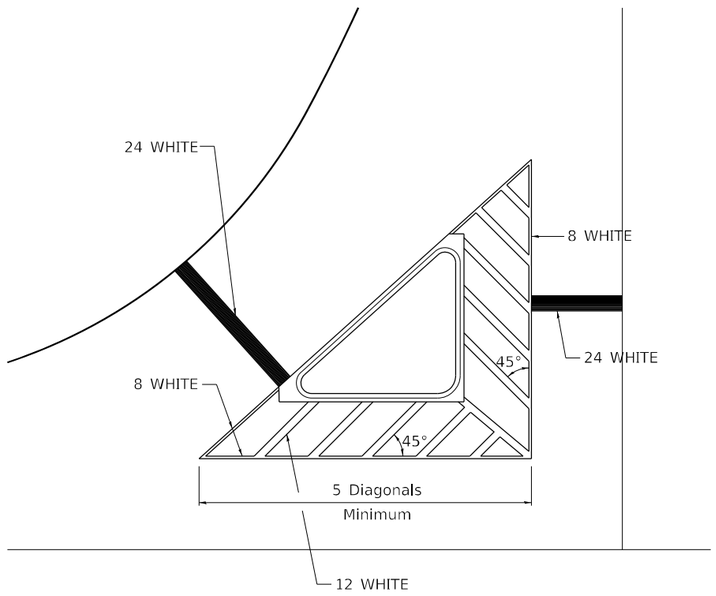


MEDIAN PAVEMENT MARKING



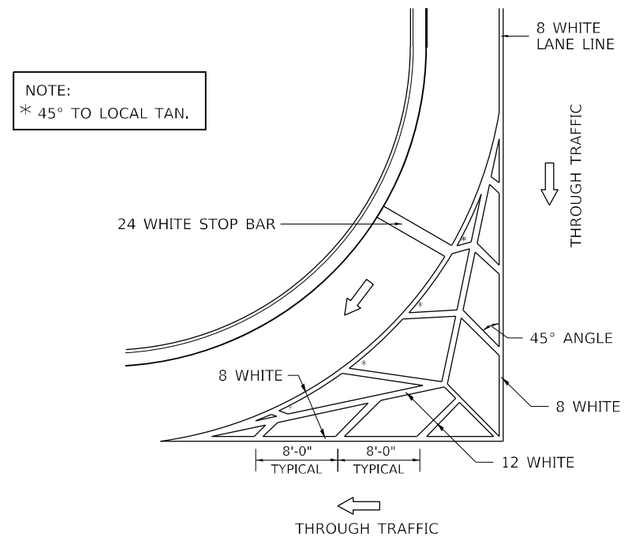
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



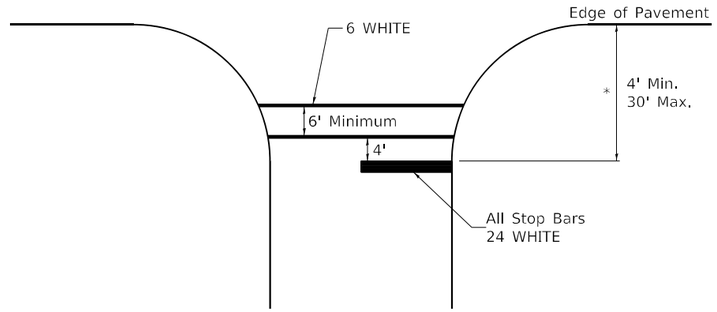
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

TYPICAL PAVEMENT MARKINGS 41.1

(Sheet 1 of 3)

MODEL: Default
FILE NAME: pw:\\bfcms-pw.bentley.com:bfcms-pw-01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8" x 4" box culvert\D2764M76k-sht-D2-stds.dgn

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

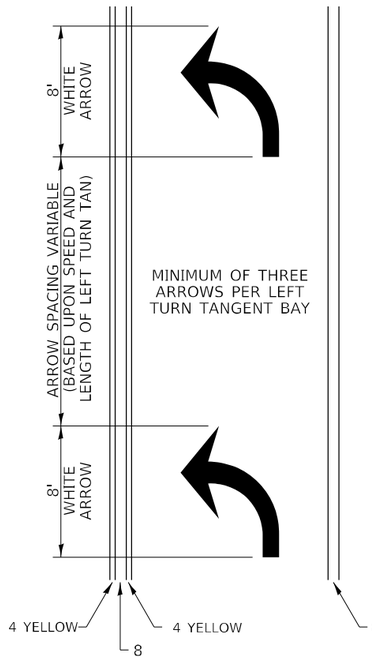
REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 11 OF 13 SHEETS | STA. | TO STA.

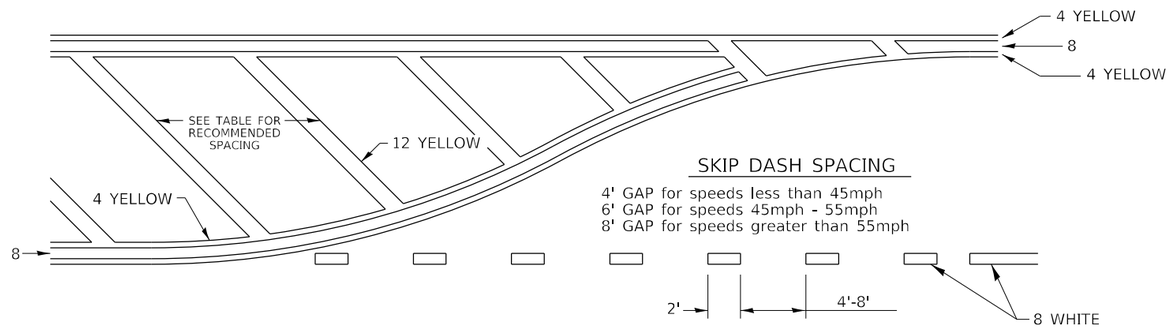
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	41
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.

TYPICAL PAVEMENT MARKINGS 41.1
(Sheet 2 of 3)

MODEL: Default
FILE NAME: pw:\\bfwmke-pw.bentley.com:bfwmke-pw-01\Document\BFWPROJECTS\2020 PROJECTS\20072 - IDOT D2 RTE 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8" x 4" box culvert\D2R4M76k-sh-D2-std.dgn

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -	6-27-14
	DRAWN -	REVISED -	3-05-12
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/11/2025	DATE -	REVISED -	

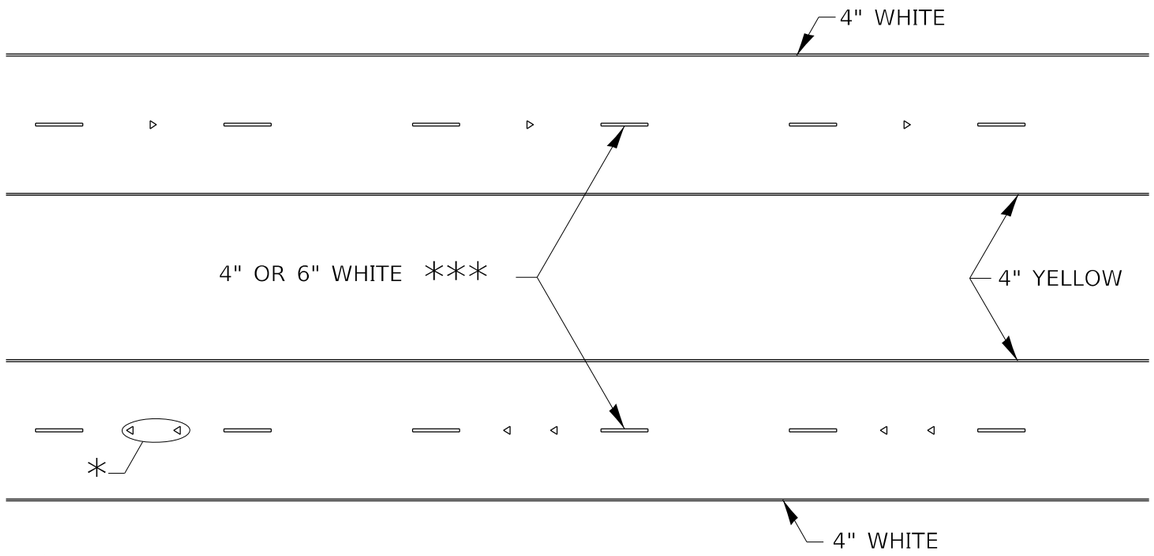
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: | SHEET 12 OF 13 SHEETS | STA. | TO STA.

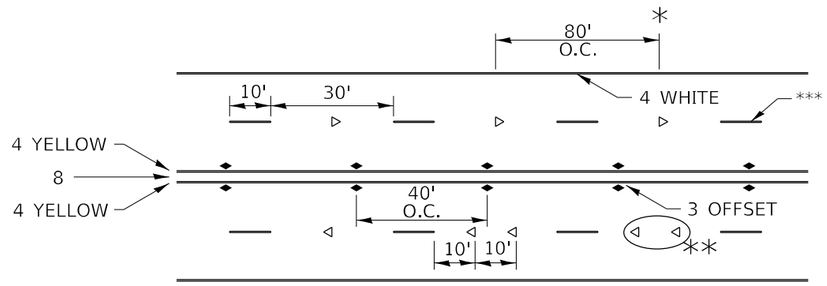
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	42
		CONTRACT NO. 64M76		
		ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI–LANE / DIVIDED



SYMBOLS

* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

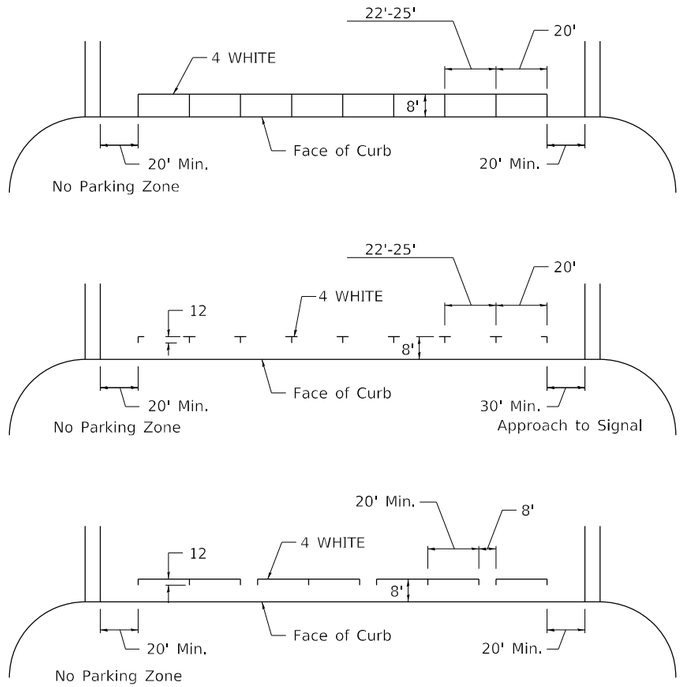
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

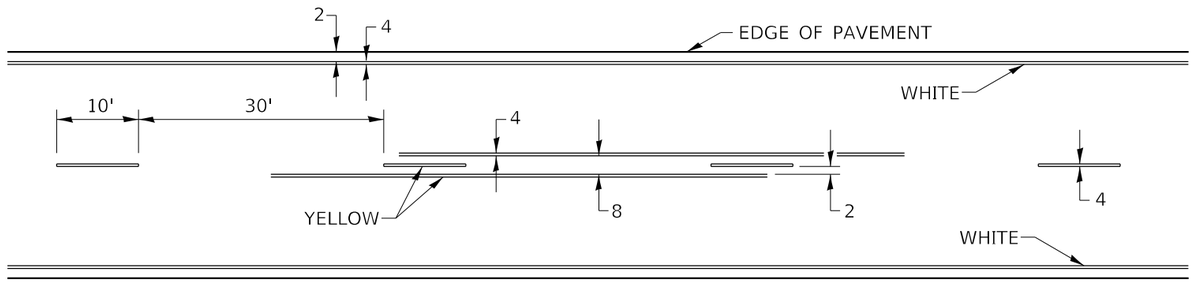
MULTI–LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES

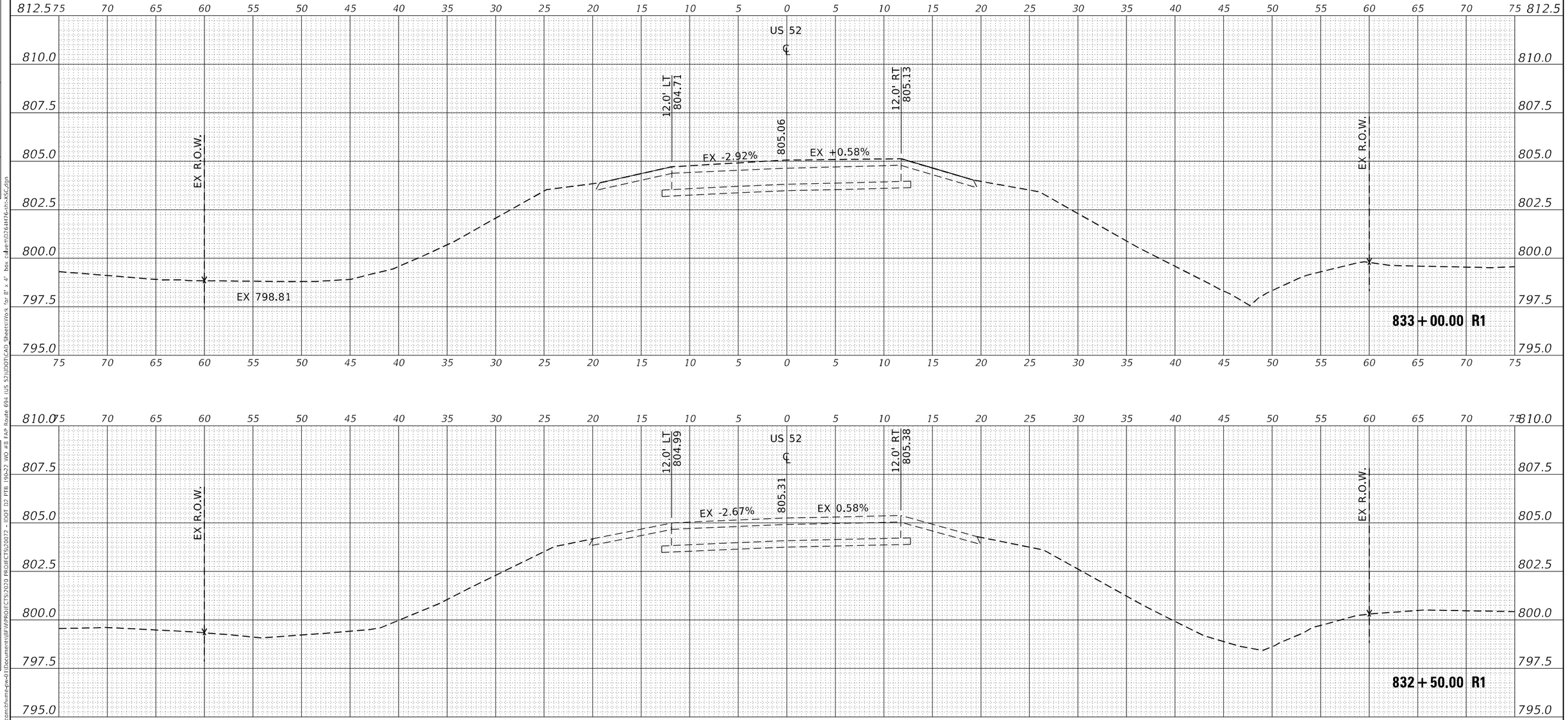


TYPICAL PAVEMENT MARKINGS 41.1

(Sheet 3 of 3)

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARDS
		DRAWN -	REVISED - 8-27-13		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - 11-28-12		SCALE: / SHEET 13 OF 13 SHEETS / STA. / TO STA.
	PLOT DATE = 2/11/2025	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	43
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: PLAN/PROFILE1
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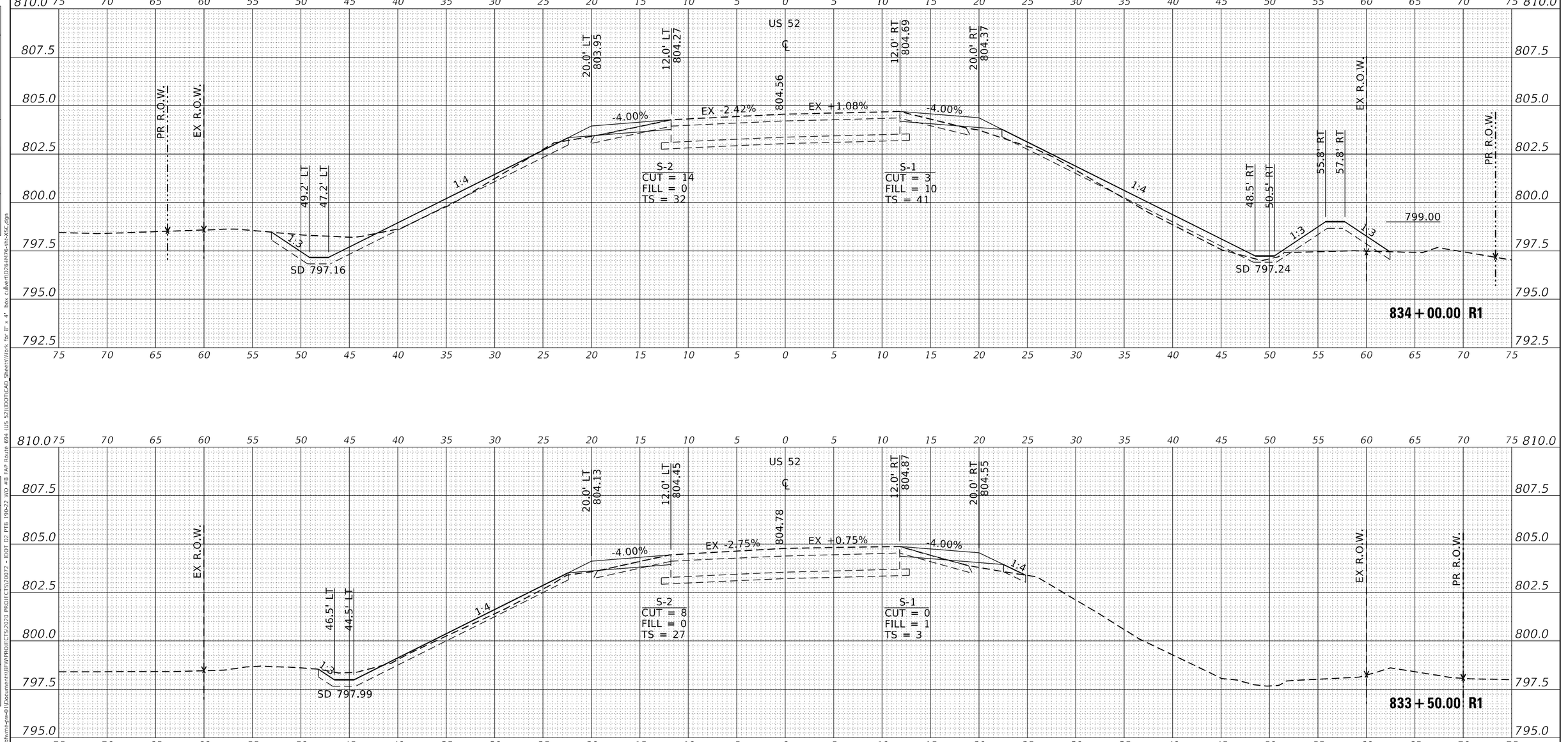
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
CROSS SECTIONS

SCALE: | SHEET 1 OF 7 SHEETS | STA. 832+50.00 R1 TO STA. 833+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	44
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



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BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	
USER NAME = sclyne	DESIGNED -
	DRAWN -
PLOT SCALE = 10.0000 ' / in.	CHECKED -
PLOT DATE = 2/11/2025	DATE -

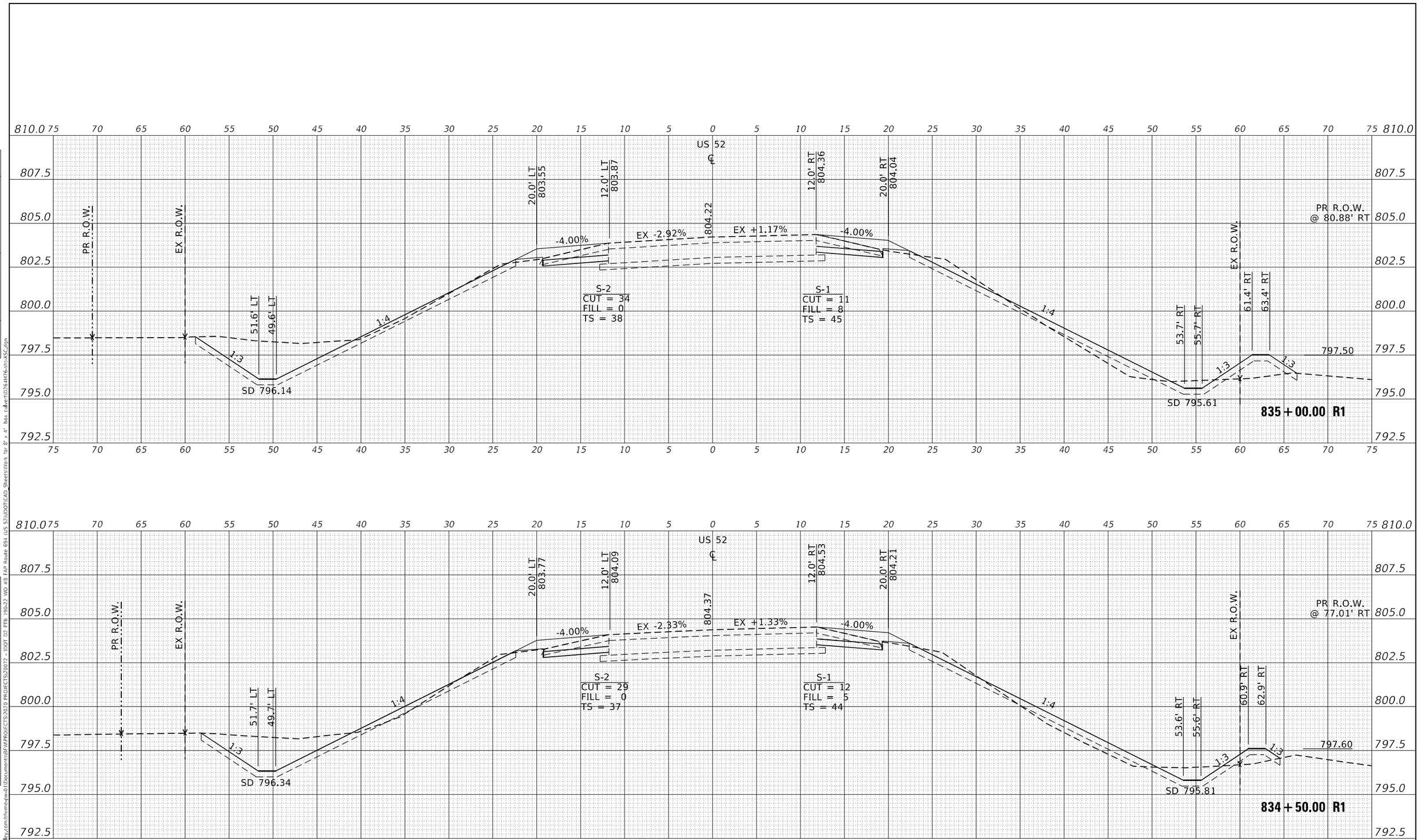
	REVISED	-
	REVISED	-
	REVISED	-
	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
CROSS SECTIONS

SCALE: | SHEET 2 OF 7 SHEETS | STA. 833+50.00 R1 TO STA. 834+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	45
		CONTRACT NO. 64M76		
	ILLINOIS | FED. AID PROJECT			



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

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

MODEL: PLAN/PROFILE1
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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
CROSS SECTIONS

SCALE: | SHEET 3 OF 7 SHEETS | STA. 834+50.00 R1 TO STA. 835+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	46
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		

REMOVAL OF EXISTING STRUCTURE NO.1 (1-EACH)
(DUAL 24" DIA. CULVERTS W/
CONC. LINERS & CONCRETE
WINGWALLS, HEADWALLS) TBR

CLASS B PATCH, 10"
(133 SQ YD) W/ 3"
HOT-MIX ASPHALT
SURFACE COURSE,
IL 9.5, MIX "C", N 50

US 52
℄

PR R.O.W.
EX R.O.W.
MATCH-LINE

17.5' LT
12.0'
S-1 TRAFFIC
12.0'
S-2 TRAFFIC
17.5' RT

3.0' LT STAGE 1 PAVT. REMOVAL
3.0' RT STAGE 1 PAVT. CONSTR.

22.84' LT
TOL = 803.15
20.0' LT
803.55
12.0' LT
803.87
30.94' LT
801.17
804.08
12.0' RT
804.11
20.0' RT
803.79
33.06' LT
800.88
41.74' RT
798.71
83.73' RT
PR R.O.W.
SD 795.35
55.41' RT
795.40

-4.00%
-1.75%
+0.25%
-4.00%
+0.49%

1:4.60
1:3
1:4
1:4.38
1:4
1:3
1:4

53.8' LT
51.8' LT
SD 795.88

STAGE 1 REMOVAL
SOIL RETENTION
STAGE 1 CONSTR.
SOIL RETENTION
AT PIPE CULVERT

21.44' LT
795.77
42.41' RT
795.46

MANHOLES, TYPE A,
4' DIAMETER, TYPE I
FRAME, CLOSE LID (1-EACH)

PIPE CULVERT, CLASS A
TYPE 2, 24", 63.85' LENGTH

S-2 CONSTR.
S-1 CONSTR.

REMOVAL & DISPOSAL OF
UNSUITABLE MATERIAL;
12" ROCKFILL
(SEE SPECIAL PROVISION)

EX ±6"
FIELD TILE
REMOVE INLET
(1-EACH)

835+62.00 R1

812.5 / 810.0 / 807.5 / 805.0 / 802.5 / 800.0 / 797.5 / 795.0 / 792.5 / 790.0

US 52
℄

PR R.O.W.
EX R.O.W.
PR R.O.W.
@ 85.00' RT

20.0' LT
803.52
12.0' LT
803.84
804.10
12.0' RT
804.16
20.0' RT
803.84

-4.00%
-2.17%
+0.50%
-4.00%

1:4
1:3
1:4

52.4' LT
50.4' LT
SD 795.93

S-2
CUT = 36
FILL = 0
TS = 39

S-1
CUT = 30
FILL = 3
TS = 64

PIPE CULVERT, CLASS A,
TYPE 1, (RCCP), 12"

53.76' RT
SD 795.40

835+50.00 R1

810.0 / 807.5 / 805.0 / 802.5 / 800.0 / 797.5 / 795.0 / 792.5

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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

MODEL: PLAN/PROFILE1
FILE NAME: p:\bfwnmspw.bentley.com:bfwnmspw-pw01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work Sheets\box culvert\D2764M76-fm-XSC.dgn

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

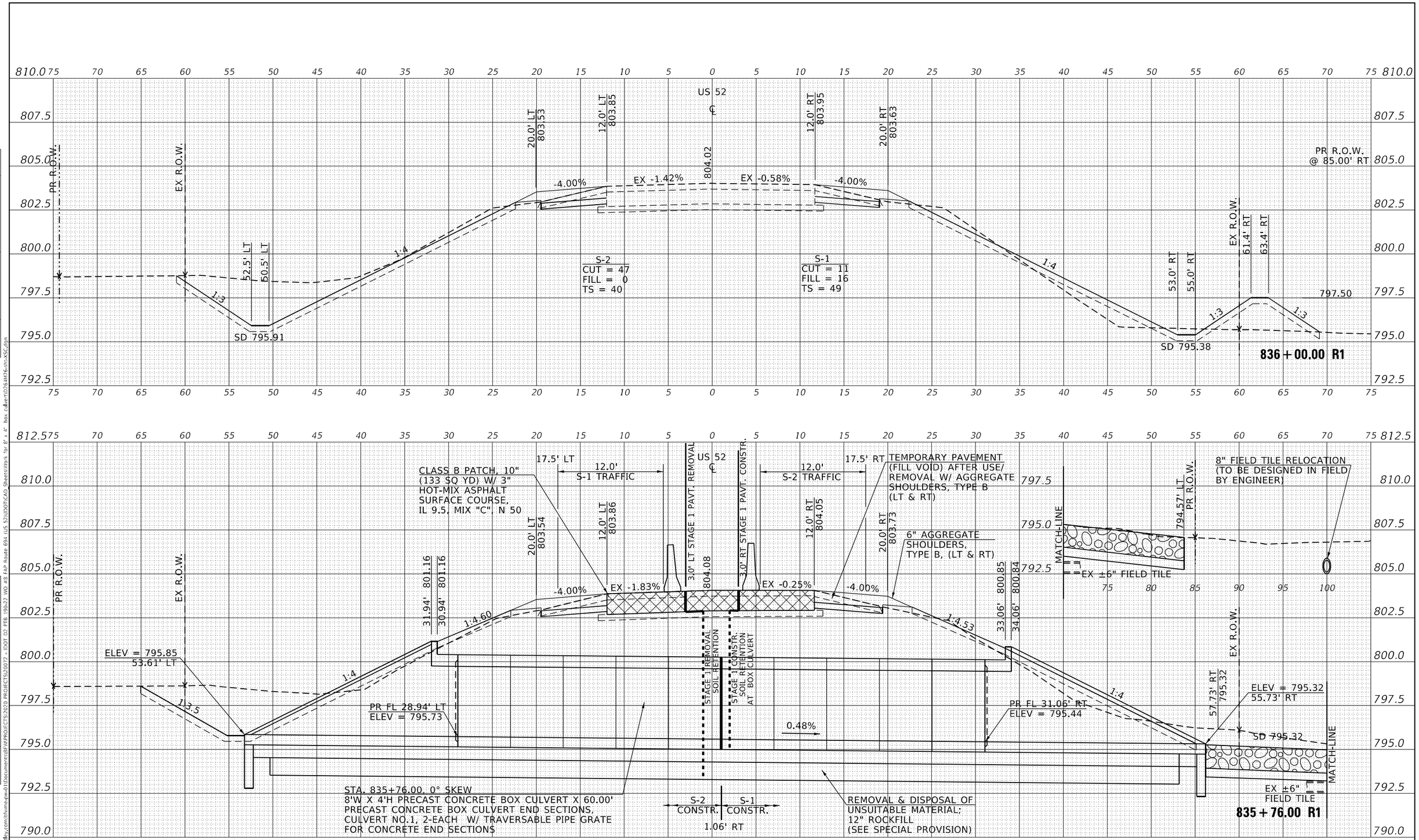
USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
CROSS SECTIONS

SCALE: | SHEET 4 OF 7 SHEETS | STA. 835+50.00 R1 TO STA. 835+62.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	47
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



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

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

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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

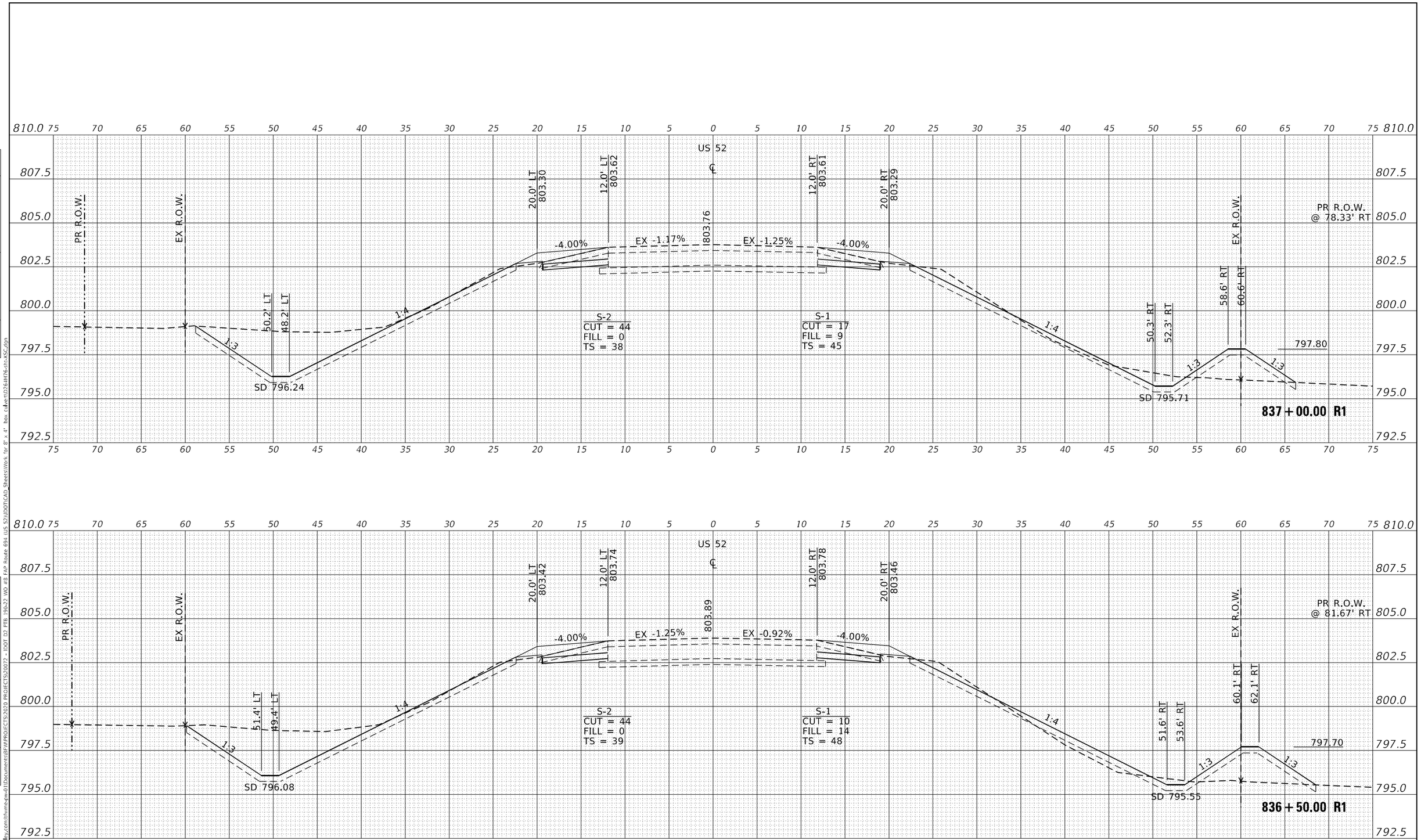
USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
CROSS SECTIONS

SCALE: | SHEET 5 OF 7 SHEETS | STA. 835+76.00 R1 TO STA. 836+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	48
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY / ORIGINAL SURVEY

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

MODEL: PLAN/PROFILE1
FILE NAME: pw:\\bfwvm-pw.bentley.com:bfwvm-pw-01\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8' x 4' box culvert\D2764M76-fm-XSC.dgn

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

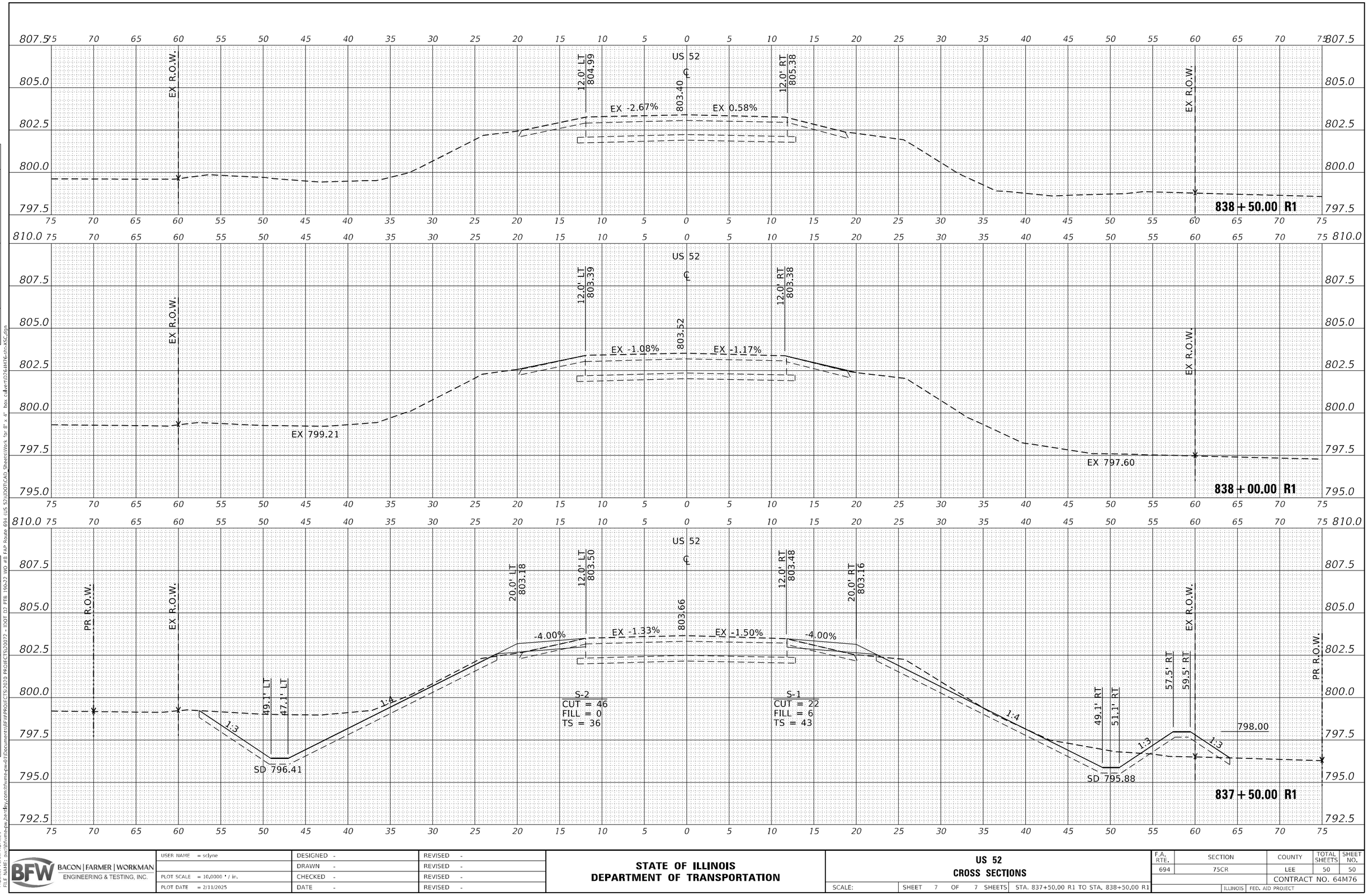
USER NAME = sclyne	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 52
CROSS SECTIONS

SCALE: | SHEET 6 OF 7 SHEETS | STA. 836+50.00 R1 TO STA. 837+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	49
		CONTRACT NO. 64M76		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: PLAN/PROFILE1
FILE NAME: pw:\\bfwmke-pw.bentley.com:bfwmke-pw_Drive\Documents\BFW\PROJECTS\2020 PROJECTS\20072 - IDOT D2 PTB 190-22 WO #8 FAP Route 694 (US 52)\IDOT\CAD Sheets\Work for 8' x 4' box culvert\D2764M76-fm-XSC.dgn

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.	USER NAME = sclyne	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN -	REVISED -	
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
	PLOT DATE = 2/11/2025	DATE -	REVISED -	

US 52
CROSS SECTIONS

SCALE: | SHEET 7 OF 7 SHEETS | STA. 837+50.00 R1 TO STA. 838+50.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
694	75CR	LEE	50	50
		CONTRACT NO. 64M76		
		ILLINOIS | FED. AID PROJECT		