

11-07-2025 LETTING ITEM 036

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FUNCTIONAL CLASSIFICATION

LOCAL ROAD, (NON-URBAN)

DESIGN SPEED: 35 MPH

POSTED SPEED: 35 MPH

ADT = 400 (2023); 450 (2043)

ADTT = 12(2023); 14(2043)

DHV: 45 (2043)

2-WAY TRAFFIC

DIRECTIONAL DISTRIBUTION: 45:55

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

**SBI 2 (OLD US 51) OVER DITCH
SECTION (55)CR
PROJECT STP-B2B4(638)
CULVERT REPLACEMENT
RANDOLPH TOWNSHIP
MCLEAN COUNTY
C-95-007-25**

AT DITCH 0.4 MILE S OF US 136, HEYWORTH

EXISTING S.N. 057-8216 AT STA. 86 + 69.13
SINGLE BARREL (12FT X 7FT) REINFORCED
CONCRETE BOX CULVERT
PROPOSED S.N. 057-2051 AT STA. 86 + 69.13
DOUBLE BARREL (10FT X 7FT) REINFORCED
CONCRETE BOX CULVERT

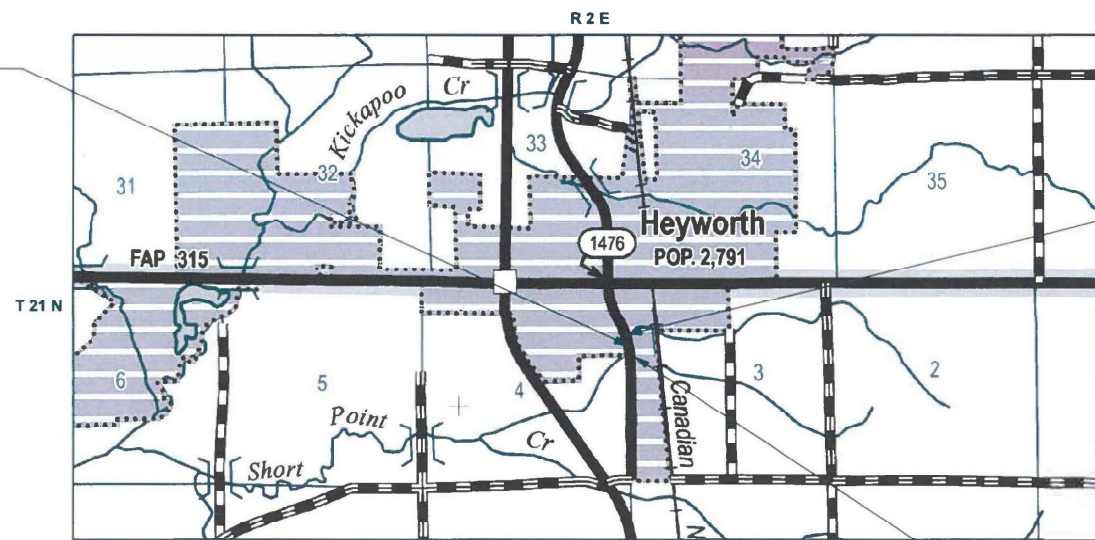


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JASON STULTS, P.E.
PROJECT MANAGER: JASON GOBLE
PHONE: 217-465-4181
CONTRACT NO. 70D72

DATE: 7-29-25
EXPIRES 11/30/25



R 2 E
LOCATION MAP
NOT TO SCALE

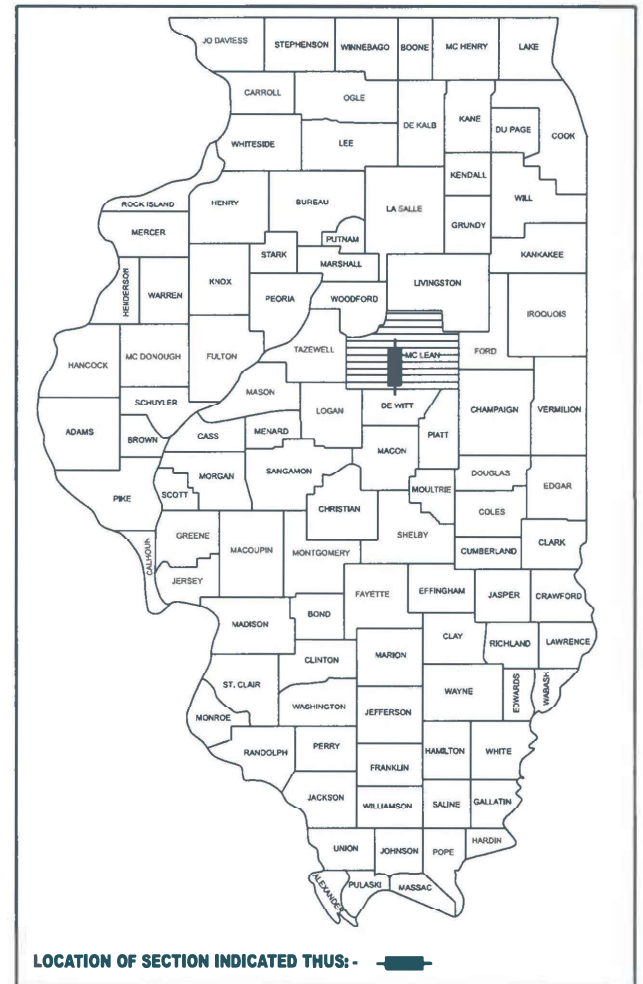
GROSS LENGTH = 105 FT. = 0.02 MILE
NET LENGTH = 105 FT. = 0.02 MILE

END SECTION SBI 2
STA. 87 + 25.00

BEGIN SECTION SBI 2
STA. 86 + 20.00

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	1

CONTRACT NO. 70D72



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 7/31/25
Kenneth A. Barnett, P.E.
REGIONAL ENGINEER
October 3, 2025
S. A. E. T. S.
ENGINEER OF DESIGN AND ENVIRONMENT
October 3, 2025
J. M. A. S.
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

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

G.N.-406H
MIXTURE REQUIREMENTS
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	SBI 2 (OLD US 51)
MIXTURE USE(S):	CLASS D PATCH & SURFACE COURSE (INCIDENTAL)
AC/PG	SBS PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=50
MIXTURE COMP (GRADATION)	IL 9.5
FRICTION AGGREGATE	Mix C
MIXTURE WEIGHT	112
QUALITY MANAGEMENT PROGRAM	QC/QA
SUBLOT SIZE	3000
MATERIAL TRANSFER DEVICE (REQUIRED?)	NO

G.N.-406S
PROJECT POSTED SPEED LIMITS
THE FOLLOWING TABLE IS A LISTING OF POSTED SPEED LIMITS WITHIN THE PROJECT LIMITS
THE ENGINEER SHALL FIELD VERIFY THESE LIMITS:

STATION	TO	STATION	POSTED SPEED LIMIT	DESIGN SPEED LIMIT
86+20		87+30	35 MPH	35 MPH

G.N.-781
THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECIVE PAVEMENT MARKERS.

UTILITY INFORMATION

AMEREN IL (ELECTRIC)
MR. KYLE YOUNG
kyoung@ameren.com
400 Limit St
Lincoln, IL 62526
(217) 361-7359

AMEREN (GAS)
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nseverson@ameren.com
825 N MACARTHUR
SPRINGFIELD, IL
217-206-5461

VILLAGE OF HEYWORTH
DAVID W. SHARWE, P.E. P.L
engineer@heyworth-il.gov
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P.O BOX 439
HEYWORTH, IL
217-402-2737

MEDIACOM
TODD PHEIFER
tpheifer@mediacomcc.com
211 E. SANGAMON AVE.
RANTOUL, IL
217-215-6170
815-549-5059

FRONTIER COMMUNICATION
JESSICA BECKER
jessica.l.ward@ftr.com
109 E Market St
2nd Floor North
Bloomington, IL 61701
(309) 549-7403

HIGHWAY STANDARDS

STANDARD 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
515001-04	NAME PLATE FOR BRIDGES
701006-05	OFF-RD OPERATIONS, 2L,2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701901-10	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
B.L.R 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
B.L.R 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2-LANE 2 WAY RURAL TRAFFIC) (ROAD CLOSED TO THROUGH TRAFFIC)

DISTRICT 5 DETAILS	
61101011A	FIELD TILE SYSTEMS (TREATMENT OF EXISTING)
7800AAAA	PAVEMENT MAKRKINGS AND MARKERS (RURAL AND URBAN APPLICATIONS)

COMMITMENTS

THERE ARE NO COMMITMENTS ON THIS PROJECT.

MODEL: GENERAL NOTES
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO_2_Contract_70D72\CAD_SHEETS\0572051-70D72-shl-Gemnotes.dgn

7/30/2025 10:33:44 AM

SUMMARY OF QUANTITIES

LOCATION OF WORK:			SBI 2 (OLD US 51)
			LOCAL ROAD
			RURAL
			STA. 86+20
			STA 87+30
			MCLEAN
			80% FED/ 20% STATE
FUNDING BREAKOUT:			
CONSTRUCTION CODE:			0004
PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
20200100	EARTH EXCAVATION	CU YD	217
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	22
20300100	CHANNEL EXCAVATION	CU YD	35
20700110	POROUS GRANULAR EMBANKMENT	TON	1,502
25000210	SEEDING, CLASS 2A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	13
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	13
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	13
25100630	EROSION CONTROL BLANKET	SQ YD	662
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70

*= SPECIALTY ITEM

MODEL: SOQ Sheet 1
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72-shl-SOQ.dgn

SUMMARY OF QUANTITIES

LOCATION OF WORK:	SBI 2 (OLD US 51)
	LOCAL ROAD
	RURAL
	STA. 86+20
	STA 87+30
	MCLEAN
FUNDING BREAKOUT:	80% FED/ 20% STATE
CONSTRUCTION CODE:	0004

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
28000305	TEMPORARY DITCH CHECKS	FOOT	60
28000400	PERIMETER EROSION BARRIER	FOOT	189
28100107	STONE RIPRAP, CLASS A4	SQ YD	163
28200200	FILTER FABRIC	SQ YD	163
30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	211
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	41
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	428
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	3
44200911	CLASS B PATCHES, TYPE IV, 6 INCH	SQ YD	153
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	177

* DENOTES SPECIALTY ITEM

MODEL: SOQ Sheet 2
FILE NAME: S:\PROJECTS\2023\1371D23_IDOT25WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72-sh-50Q.dgn



USER NAME	= frank
PLOT SCALE	=
PLOT DATE	= 7/30/2025

DESIGNED	= KM
DRAWN	= DJB
CHECKED	= DCB
DATE	= 09/11/2024

REVISED	=
REVISED	=
REVISED	=
REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	4
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK :	SBI 2 (OLD US 51)
	LOCAL ROAD
	RURAL
	STA. 86+20
	STA 87+30
	MCLEAN
FUNDING BREAKOUT :	80% FED/ 20% STATE
CONSTRUCTION CODE :	0004

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
48203029	HOT-MIX ASPHALT SHOULDERS, 8 "	SQ YD	36
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	31,740
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	166
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	148
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	95
61133100	FIELD TILE JUNCTION VAULIS, 2' DIA.	EACH	10
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	100
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	290

*= SPECIALTY ITEM

MODEL: SOQ Sheet 3
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72-shl-SOQ.dgn



USER NAME = frank	DESIGNED - KM	REVISED -
	DRAWN - DJB	REVISED -
PLOT SCALE =	CHECKED - DCB	REVISED -
PLOT DATE = 8/4/2025	DATE - 09/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	5
CONTRACT NO. 70D72				
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

LOCATION OF WORK :	SBI 2 (OLD US 51)
	LOCAL ROAD
	RURAL
	STA. 86+20
	STA 87+30
	MCLEAN
FUNDING BREAKOUT :	80% FED/ 20% STATE
CONSTRUCTION CODE :	0004

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3
67100100	MOBILIZATION	L SUM	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	360
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	148
X6110073	EXISTING FIELD TILE REMOVAL	FOOT	100

* DENOTES SPECIALTY ITEM

MODEL: SOQ Sheet 4
FILE NAME: S:\PROJECTS\2023\1371D23_IDOT25WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72-shl-SOQ.dgn



WILLETT HOFMANN
ASSOCIATES, INC.
ENGINEERING, ARCHITECTURE, AND SURVEYING
809 EAST 2ND STREET, CHICAGO, IL 60621-0867
T 312.234.4001 FAX 312.234.4009

USER NAME = frank	DESIGNED - KM	REVISED -
	DRAWN - DJB	REVISED -
PLOT SCALE =	CHECKED - DCB	REVISED -
PLOT DATE = 7/30/2025	DATE - 09/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	6
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK :	SBI 2 (OLD US 51)
	LOCAL ROAD
	RURAL
	STA. 86+20
	STA 87+30
	MCLEAN
FUNDING BREAKOUT :	80% FED/ 20% STATE
CONSTRUCTION CODE :	0004

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* DENOTES SPECIALTY ITEM

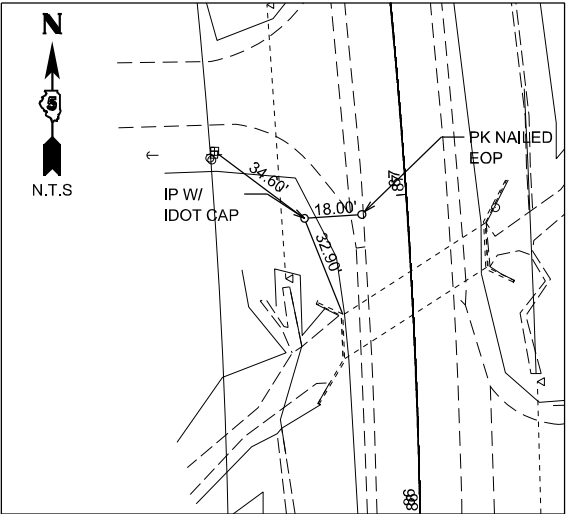
MODEL: SOQ Sheet 5
FILE NAME: S:\PROJECTS\2023\1371D23_IDOT25WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72 sht-SOQ.dgn

CENTERLINE CONTROL

BENCHMARKS

BM: # 4858-1: CHISELED SQUARE ON TOP CENTER OF EAST
HEADWALL OF EXISTING S.N.057-8216, STA. 86+85.73, 23.9
RT. ELEV. 729.34

TIES

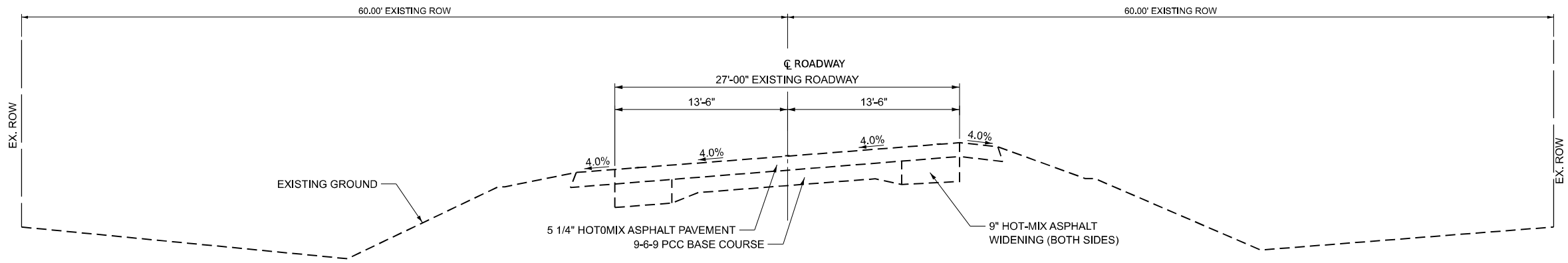


TS 400

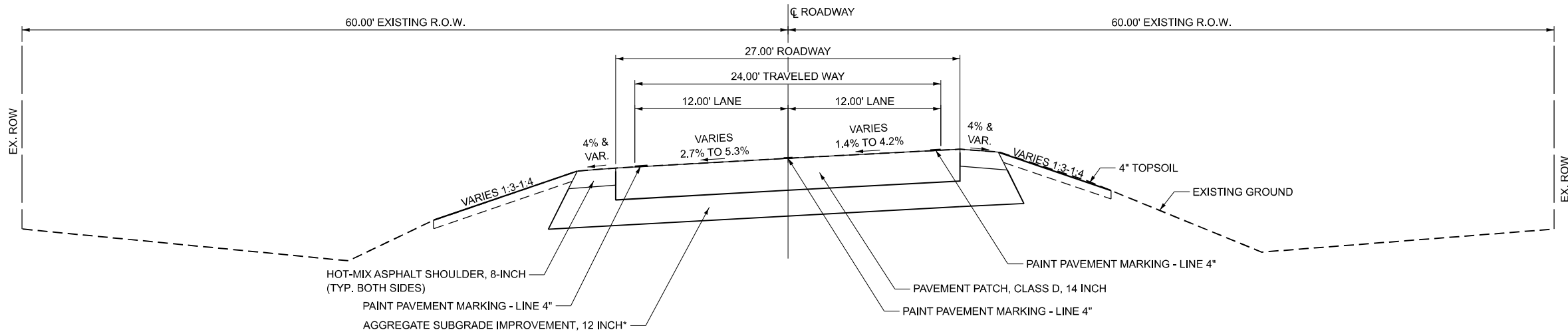
STA. 86+94.73
32.05' LT
ELEV. 728.73'

MODEL: TIES and Benchmarks
FILE NAME: S:\PROJECTS\2023\137\ID23_IDOTD5\WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72-shl-ATB.dgn

 WILLETT HOFMANN ASSOCIATES, INC. ENGINEERING, ARCHITECTURE, AND SURVEYING 809 EAST 2ND STREET, URBANA, IL 61501-0367 T: 815-284-0361 FAX: 815-284-0362	USER NAME = frank	DESIGNED - KM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHMARK, TIES & ALIGNMENTS	SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DJB	REVISED -			2	(55)CR	MCLEAN	35	7
	PLOT SCALE =	CHECKED - DCB	REVISED -			CONTRACT NO. 70D72				
	PLOT DATE = 7/30/2025	DATE - 09/11/2024	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.

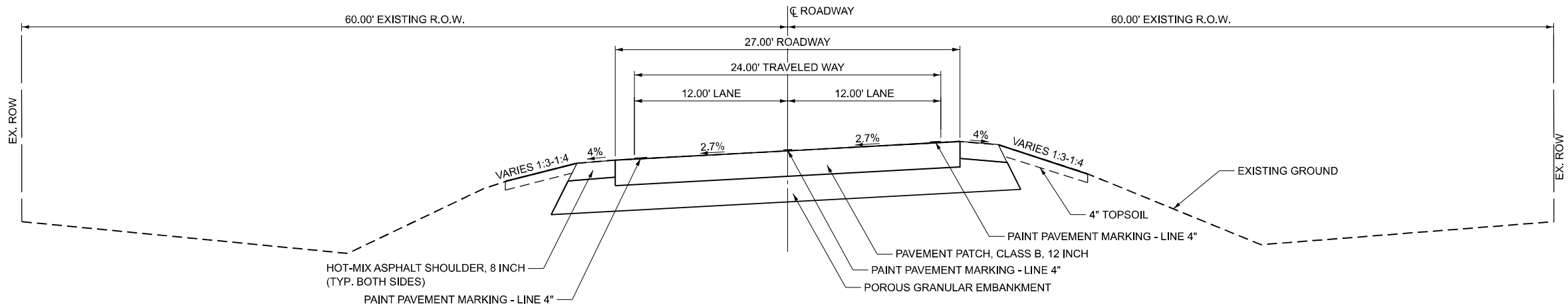


EXISTING TYPICAL CROSS SECTION
SBI 2 (OLD US 51)
STATION 86+20.00 TO STATION 87+30.00



PROPOSED TYPICAL CROSS SECTION
SBI 2 (OLD US 51)
STATION 86+20.00 TO STATION 86+43.63
86+94.63 TO 87+30.00

* NOTE: SUBSTITUTE POROUS GRANULAR EMBANKMENT
WITHIN CULVERT CONSTRUCTION LIMITS



PROPOSED TYPICAL CROSS SECTION
SBI 2 (OLD US 51)
STATION 86+43.63 TO STATION 86+94.63

MODEL: OLDUS51-87+10.00 R3 (Sheet)
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5\WO 2 Contract 70D72\CAD_SHEET\50572051-70D72-Typical Section.dgn



USER NAME =	DESIGNED - AMF	REVISED -
	DRAWN - TJA	REVISED -
	CHECKED - GFS	REVISED -
PLOT DATE = 7/18/2025	DATE - 07/17/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SBI 2 (OLD US 51)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. 86+20.00 TO STA. 87+30.00

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55) CR	MCLEAN	35	9
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

EROSION CONTROL SCHEDULE											
LOCATION				25000210	25000400	25000500	25000600	25100630	28000250	28000305	28000400
				SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
STATION	TO	STATION	LT/RT	ACRE	POUND	POUND	POUND	SQ YD	POUND	FOOT	FOOT
OLD US 51											
86+27	TO	87+30	LT	0.06	5.4	5.4	5.4	285	30		97
86+20	TO	86+46	LT	0.01	0.9	0.9	0.9	42	5		
86+91	TO	87+30	RT	0.02	1.8	1.8	1.8	117	10		19
86+27	TO	86+90	RT	0.05	4.5	4.5	4.5	218	25		73
SUBTOTAL				0.14	12.6	12.6	12.6	662	70		189
STATION			LT/RT								
OLD US 51											
86+20			LT							15	
87+30			RT							15	
86+45			RT							15	
87+30			LT							15	
SUBTOTAL										60	
TOTAL				0.25	13	13	13	662	70	60	189

PERMANENT PAVEMENT MARKING SCHEDULE							
LOCATION						78001110	78100100
						PAINT PAVEMENT MARKING - LINE 4"	RAISED REFLECTIVE PAVEMENT MARKER
STATION	TO	STATION	LOCATION	TYPE	LENGTH	FOOT	EACH
OLD US 51							
86+20	TO	87+30	EDGE LINE, LT & RT	SOLID-WHITE	210	220	
			CENTER LINE	SOLID-YELLOW	105	110	2
				SKIP-DASH	30	30	
TOTAL						360	2

HMA PAVING AND REMOVAL SCHEDULE						
LOCATION				40600275	40800050	48203029
				BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SHOULDERS, 8"
STATION	TO	STATION	LT/RT	POUND	TON	TON
OLD US 51						
86+20	TO	86+95	LT/RT	174		
86+95	TO	87+30	LT/RT	254		
86+20	TO	86+65	RT		2	
86+95	TO	87+30	LT		1	
86+20	TO	87+30	LT			19
86+20	TO	87+30	RT			17
TOTAL				428	3	36
PRIME COAT APPLICATION RATE: 0.25 LB/SQ FT						

PATCHING SCHEDULE								
LOCATION							44201000	44201821
							CLASS B PATCHES, TYPE IV, 12 INCH	CLASS D PATCHES, TYPE IV, 14 INCH
STATION	TO	STATION	LT/RT	NUMBER EACH	WIDTH FT	LENGTH FT	SQ YD	SQ YD
OLD US 51								
86+44	TO	86+95	LT/RT	1	27	51	153	
86+20	TO	86+44	LT/RT	1	27	24		72
86+95	TO	87+30	LT/RT	1	27	35		105
TOTAL							153	177

Field Tile Repair							
LOCATION				61100500	61133100	61140000	X6110073
				EXPLORATION TRENCH 52" DEPTH	FIELD TILE JUNCTION VAULTS, 2' DIAMETER	STORM SEWERS (SPECIAL), 8"	EXISTING FIELD TILE REMOVAL
STATION	TO	STATION	LT/RT	FOOT	EACH	FOOT	FOOT
OLD US 51							
86+23	TO	86+81	LT	45	5	50	50
86+60	TO	87+17	RT	50	5	50	50
SUBTOTAL				95	10	100	100
TRENCH EXPLORATION AND FIELD TILE REPAIR TO BE PERFORMED ALONG RIP RAP AREAS							

AGGREGATE ITEMS SCHEDULE						
LOCATION				20700110	30300011	35102000
				POROUS GRANULAR EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	AGGREGATE BASE COURSE, TYPE B 8"
STATION	TO	STATION	LT/RT	TON	TON	SQ YD
OLD US 51						
86+20	TO	86+42	LT/RT		63	
86+96	TO	87+30	LT/RT		104	
86+20*	TO	87+30	LT/RT		44	
86+20	TO	87+65	RT			24
86+84	TO	87+30	LT			17
86+50	TO	86+88	LT	102		
TOTAL					211	41

*REPLACING REMOVAL OF UNSUITABLE MATERIAL

AGGREGATE BASE COURSE, TYPE B, 8" TO BE PLACED UNDER THE INCIDENTAL HMA ON THE ENTRANCES

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SCHEDULE				
LOCATION				20201200
				REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
STATION	TO	STATION	LT/RT	CUYD
OLD US 51				
86+20	TO	87+25	LT/RT	22
TOTAL				22

MODEL: SOQ Sheet 1
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO 2 Contract 70D72\CAD_SHEETS\0572051-1-70D72-shl-Schedules.dgn



WILLETT HOFMANN
ASSOCIATES INC.
ENGINEERING ARCHITECTURE AND SURVEYING
809 EAST 2ND STREET, URBANA, IL 61521-0367
T. 815-239-1391 DED. C/N R/SAL 2124-000016

USER NAME	= frank
PLOT SCALE	=
PLOT DATE	= 7/30/2025

DESIGNED	-	KM
DRAWN	-	DJB
CHECKED	-	DCB
DATE	-	09/11/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	10
CONTRACT NO. 70D72				
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

EARTHWORK SUMMARY - SBI 2 (OLD US 51)						
LOCATION	[A] EARTH EXCAVATION 20200100	[B] [0.75*A] EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	[C] EMBANKMENT	[D] CHANNEL EXCAVATION	[E] [0.50*D] CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE 50%	[F] [B-C+E] EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
SBI 2(OLD US 51)	217	163	23	142	71	211
PROJECT TOTAL	217	163	23	142	71	211

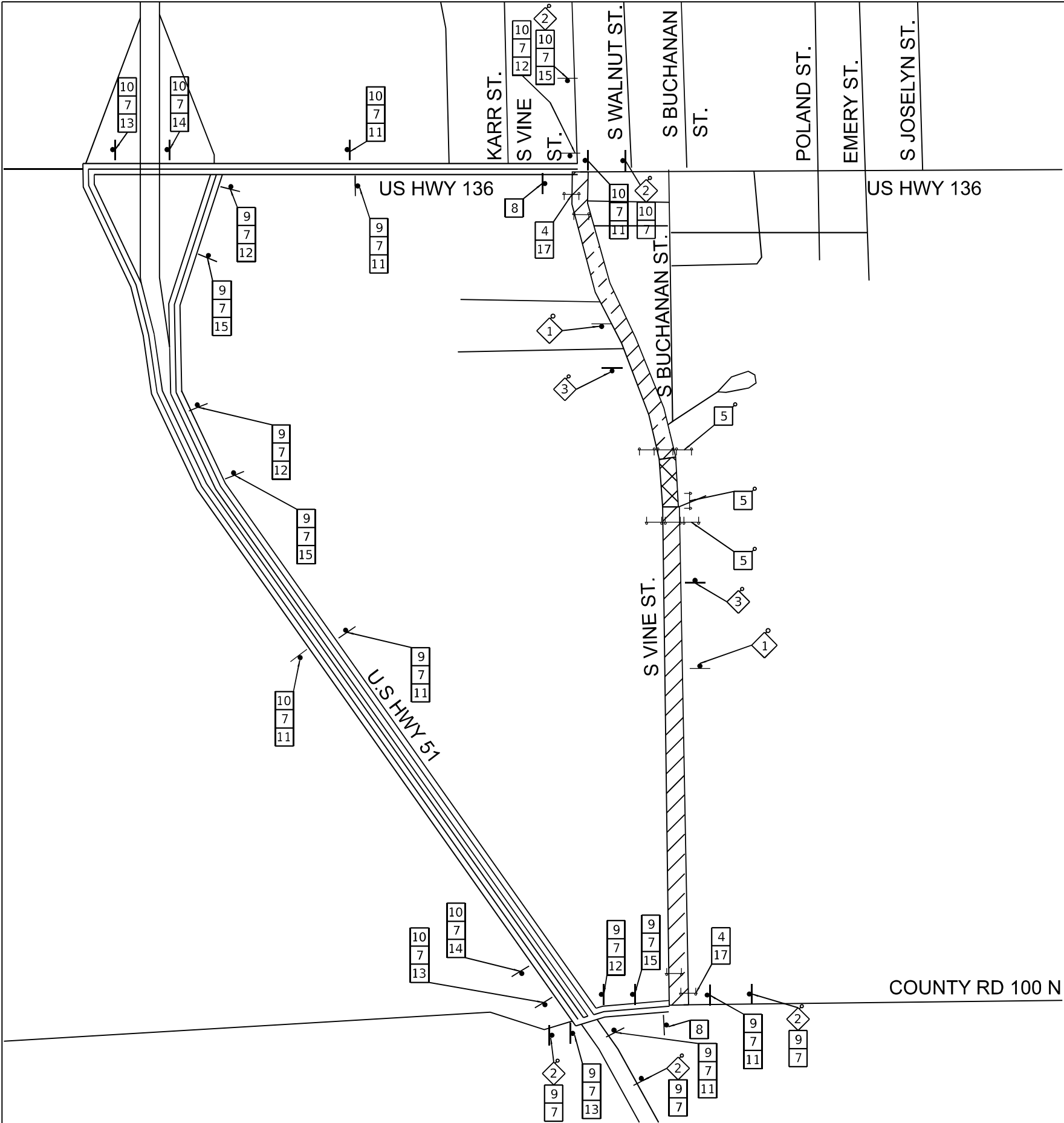
EARTHWORK NOTES

1 EARTHWORK WAS CALCULATED FROM THE CUTS AND FILLS FROM EACH CROSS SECTION.

2. EARTHWORK SUMMARY DOES NOT INCLUDE EXCAVATION FOR STRUCTURES OR PAVEMENT REMOVAL OR PAVMENT REMOVAL WHICH IS INCLUDED WITH PATCHING

MODEL: 500 Sheet 2
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO 2 Contract 70D72\CAD_SHEETS\0572051-1-70D72-shl-Sched\iles.dgn

MODEL: Detour_Sheet_2
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD51WO 2_Contract 70D72\CAD_SHEETS\0572051-1-70D72-Detour.dgn



DETOUR SIGN LAYOUT

SIGN LEGEND

①		W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS.	⑨		M3-1, 24" X 12"
②		W20-2, 48" X 48" WITH AMBER FLASHING LIGHTS.	⑩		M3-3, 24" X 12"
③		W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS.	⑪		M4-9 A, 30" X 24"
④		R11-4, 60" X 30"	⑫		M4-9 R, 30" X 24"
⑤		R11-2, 48" X 30"	⑬		M4-9 L, 30" X 24"
⑥		M4-10L, 48" X 18"	⑭		M4-9 AL, 30" X 24"
⑦		SPECIAL, 30" X 18"	⑮		M4-9 AR, 30" X 24"
⑧		M4-8a, 24" X 18"	⑯		M4-10R, 48" X 18"
			⑰		R11-3a, 60" X 30"

LEGEND



	DETOUR ROUTE
	ROAD CLOSURE PARTIALLY CLOSED PORTION
	ROAD CLOSURE COMPLETELY CLOSED PORTION
	48" X 48" CONSTRUCTION SIGN WITH AMBER FLASHING LIGHT NUMBER DENOTES SIGN TYPE
	TYPE III BARRICADE W/ FLASHING LIGHTS
	OTHER DETOUR SIGNS, NUMBER DENOTES TYPE



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING, ARCHITECTURE, AND SURVEYING
809 EAST 2ND STREET, URBANA, IL 61521-0367
T. 815-239-1391 F. 815-239-1392

USER NAME	= frank	DESIGNED	- KM	REVISED	-
DRAWN	- DJB	REVISIONS	-	REVISIONS	-
PLOT SCALE	=	CHECKED	- DCB	REVISIONS	-
PLOT DATE	= 7/30/2025	DATE	- 09/11/2024	REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	12
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

MODEL: Detour Sheet 1
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO 2 Contract 70D72\CAD_SHEETS\0572051-1-70D72-Detour.dgn

DETOUR GENERAL NOTES:

1. TOTAL LENGTH OF THE DETOUR IS 1.9 MILES.

2. ALL DETOUR SIGNS SHALL BE COMPLETELY COVERED AT ALL TIMES THE ROADWAY IS NOT CLOSED TO TRAFFIC.

3. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED 2022. THE DETAILS IN THESE PLANS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

4. THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT.

5. IF DEEMED NECESSARY BY THE ENGINEER, A MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.

6. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVES FOR THE DETOUR SIGNING PRIOR TO THE START OF WORK. ALL REPRESENTATIVES PROVIDED SHALL BE AVAILABLE 24 HOURS A DAY, SEVEN DAYS A WEEK. THE AGENCY REPRESENTATIVE FOR THE DETOUR WILL BE SET AT THE PRE-CONSTRUCTION MEETING.

7. THE CONTRACTOR SHALL FIELD LOCATE THE POSITIONS OF DETOUR SIGNS, AND THE ENGINEER WILL VERIFY THE PROPOSED LOCATIONS, PRIOR TO THEIR INSTALLATION.

8. LONGITUDINAL DIMENSIONS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

9. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN, INSPECTED, AND APPROVED BY THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.

11. THE CONTRACTOR SHALL MAKE ALL CHANGES IN SIGNING THAT ARE DEEMED NECESSARY BY THE ENGINEER. ANY CHANGES ARE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

12. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.

13. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.

14. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1106.01 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION AND ACCEPTANCE OF THE SIGNS.

15. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

16. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

17. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 9'-0" IN WIDTH EACH, FOR A SINGLE APPROACH LANE.

18. THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED 1 MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3), AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
19. THE ROAD NAME SIGN DETAILS SHALL BE PER THE SIGN DESIGN ON DETOUR PLAN SHEET 2 OF 2.

20. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.

21. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT SECTION 701. OF THE STANDARD SPECIFICATIONS SHALL APPLY.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING. BRUSHING BACK VEGETATION IF DEEMED BY THE ENGINEER.

23. THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS ARE APPLICABLE FOR THIS WORK: STANDARDS 701901, 720001, 720006, 720011, 728001 & 729001.

24. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.



WILLET HOFMANN

ASSOCIATES INC.

ENGINEERING ARCHITECTURE AND SURVEYING

809 EAST 2ND STREET, URBANA, IL 61521-0367

T. 815/294-1391 F. 815/294-0005

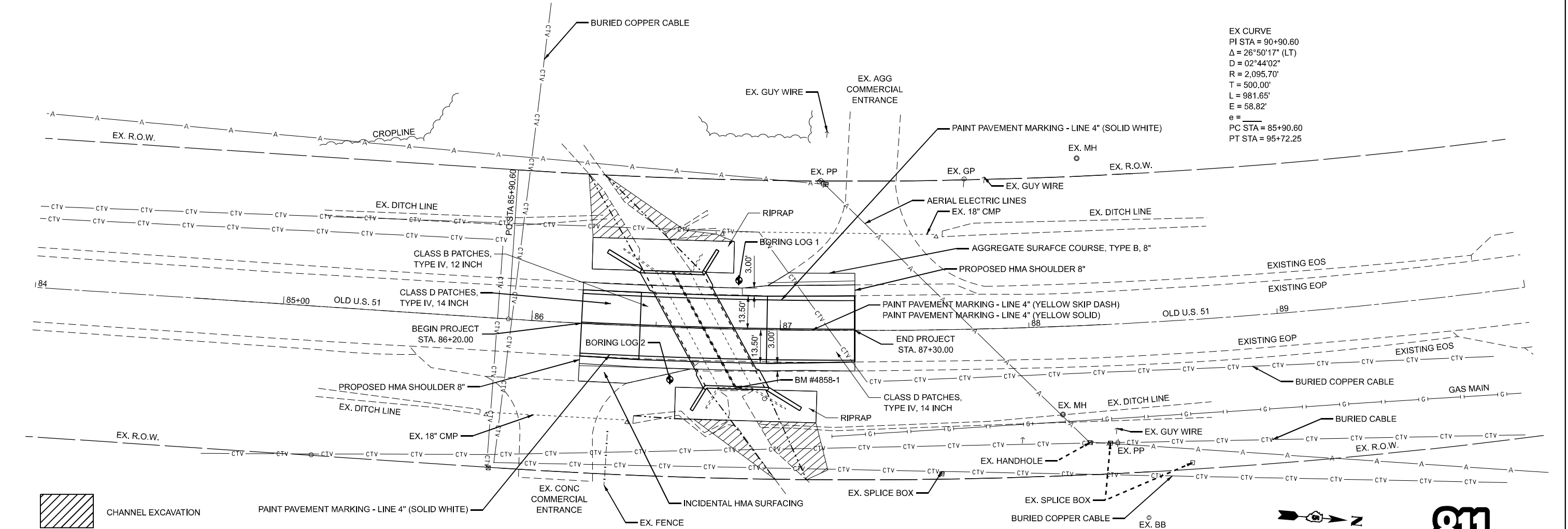
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	DRAWN - DJB	REVISED -
PLOT SCALE =	CHECKED - DCB	REVISED -
PLOT DATE = 7/30/2025	DATE - 09/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	13
CONTRACT NO. 70D72				
		ILLINOIS	FED. AID PROJECT	

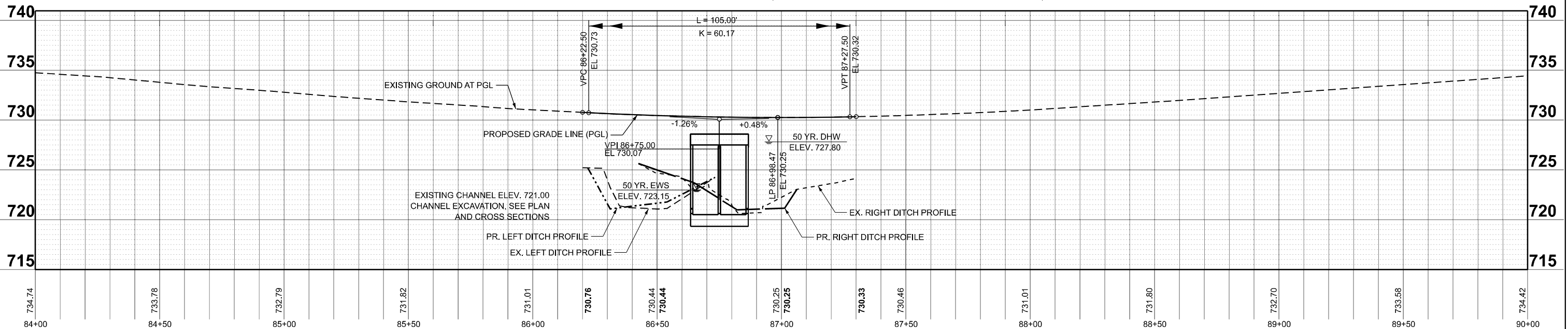
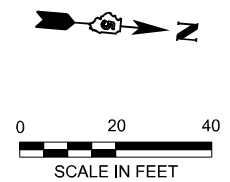
MODEL: EXCLUS51 - Plan 1 (Sheet)
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5WO 2 Contract 70D72CAD_SHEET\0572051-70D72-shd-plan and profiles.dgn



BM: # 4858-1: CHISELED SQUARE ON TOP CENTER OF EAST HEADWALL
OF EXISTING S.N. 057-8216, STA. 86+82.76, 24.0' RT. ELEV. 729.34

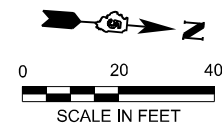
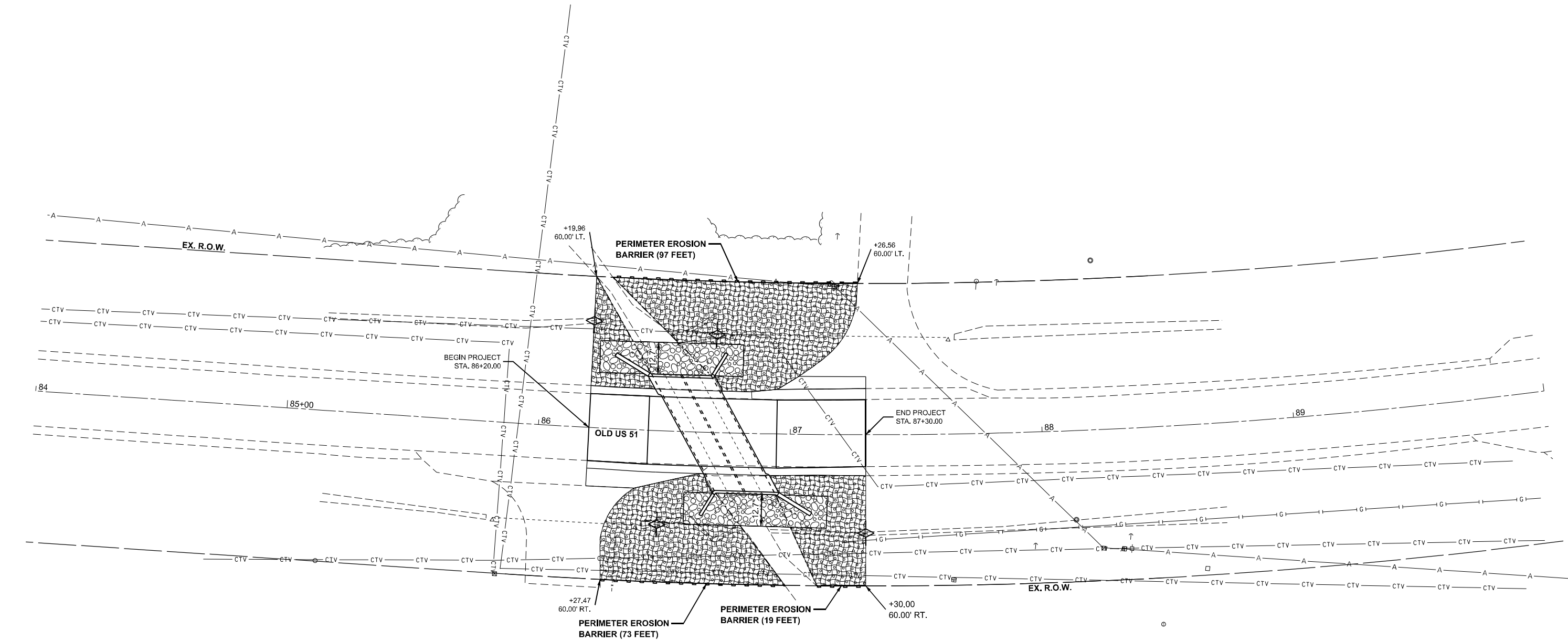
EXISTING STRUCTURE: S.N 057-8216
A SINGLE BARREL (12'-0" x 7'-0") REINFORCED CONCRETE
BOX CULVERT AT STA. 86+69.13, SKEWED 30° RT.

PROPOSED STRUCTURE: S.N 057-2051
A DOUBLE BARREL (10'-0" x 7'-0") REINFORCED CONCRETE
BOX CULVERT AT STA. 86+69.13, SKEWED 30° RT.



 WILLETT HOFMANN ASSOCIATES, INC. ENGINEERING, ARCHITECTURE, LAND SURVEYING 809 EAST 2ND STREET, CHICAGO, IL 60612-0867 P: 312-535-3344 F: 312-535-3344 WWW.WHFA.COM	USER NAME = kmahmood		DESIGNED - AMF	REVISED - ####	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE ####					SBI RTE. 2	SECTION		COUNTY MCLEAN	TOTAL SHEETS 35	SHEET NO. 14
			DRAWN - AJH	REVISED - ####								(55)CR				
			CHECKED - GFS	REVISED - ####												
	PLOT DATE = 7/18/2025		DATE - 07/18/25	REVISED - ####												
					SCALE: 1"=20'	SHEET 1 OF 1 SHEETS		STA. 84+00.00 TO STA. 90+00.00					CONTRACT NO. 70D72			
									ILLINOIS			FED. AID PROJECT				

MODEL: EXCL US51 - Plan 1 (Sheet)
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD5\WO 2 Contract 70D72\CAD_SHEET\50572051-70D72-sh-Erosion Control.dgn



LEGEND	
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET
	TEMPORARY DITCH CHECKS
	SEEDING, CLASS 2A



USER NAME = frank	DESIGNED - AMF	REVISED -
	DRAWN - TJA	REVISED -
	CHECKED - GFS	REVISED -
PLOT DATE = 7/18/2025	DATE - 07/18/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=20' SHEET 1 OF ### SHEETS STA. 84+00.00 TO STA. 90+00.00

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)GR	MCLEAN	35	15
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 057-8216 built in 1957 as a single barrel (12'-0" x 7'-0") reinforced concrete box culvert measuring 46'-8¾" out to out of headwalls at Sta. 86+65, Skewed 30° Rt. Ahead.

BM #4858-1: Chiseled "Square" top of center of East headwall of Existing S.N. 057-8216, Sta. 86+85.73. 23.9' Rt., Elev. 729.43

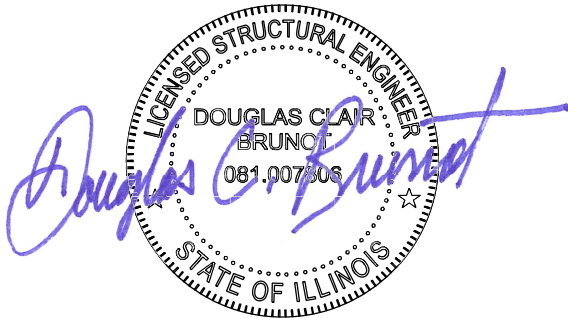
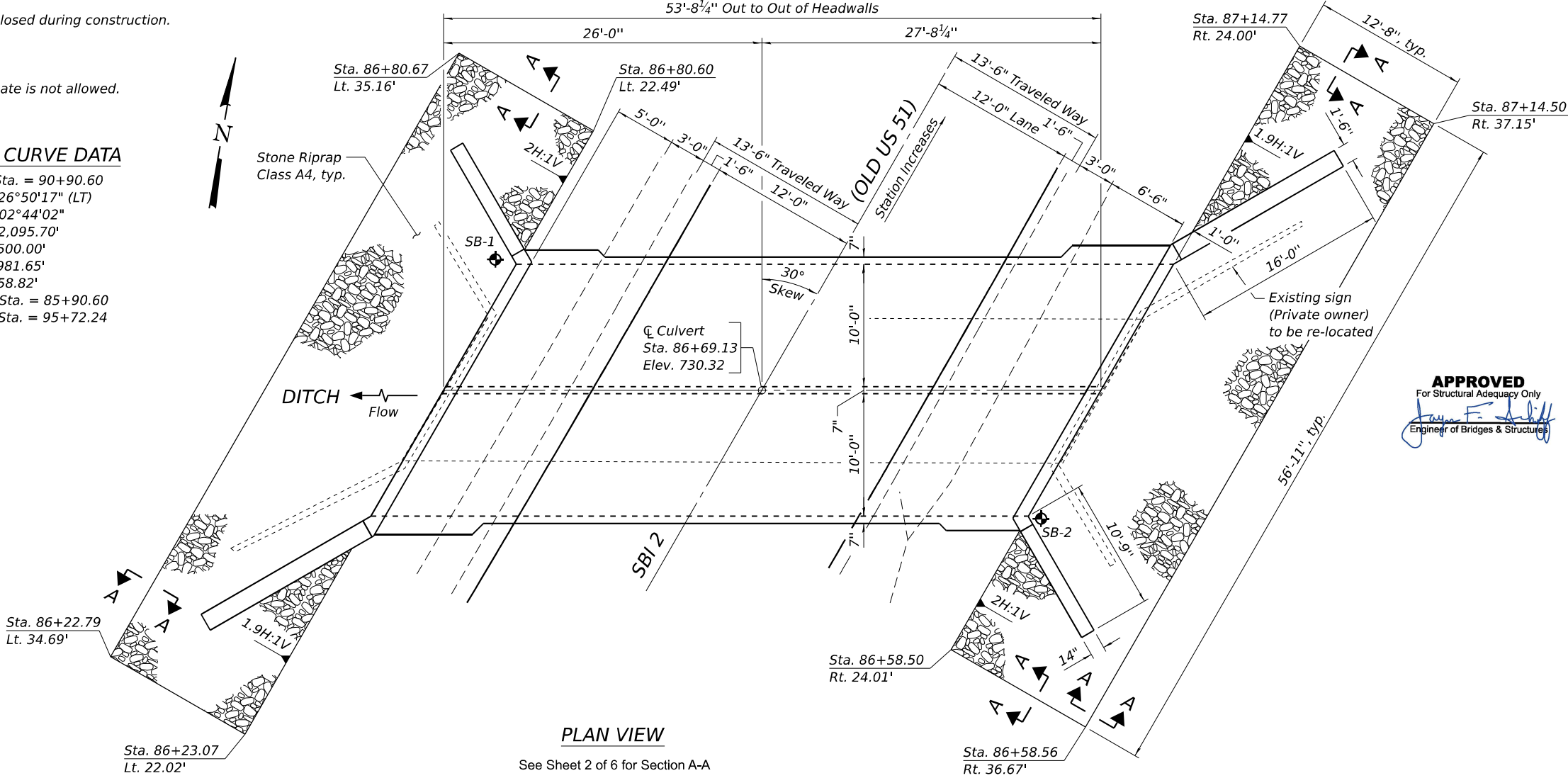
Road will be closed during construction.

No salvage

Precast alternate is not allowed.

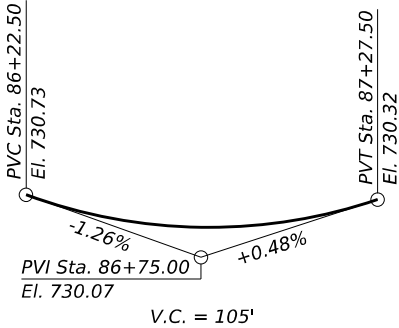
EX. CURVE DATA

P.I. Sta. = 90+90.60
Δ = 26°50'17" (LT)
D = 02°44'02"
R = 2,095.70'
T = 500.00'
L = 981.65'
E = 58.82'
P.C. Sta. = 85+90.60
P.T. Sta. = 95+72.24



DATE: 07/30/2025
EXPIRES 11/30/26

APPROVED
For Structural Adequacy Only
Jay F. Felt
Engineer of Bridges & Structures

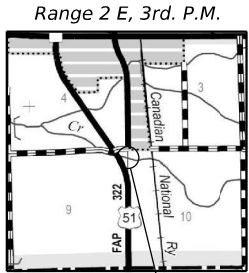
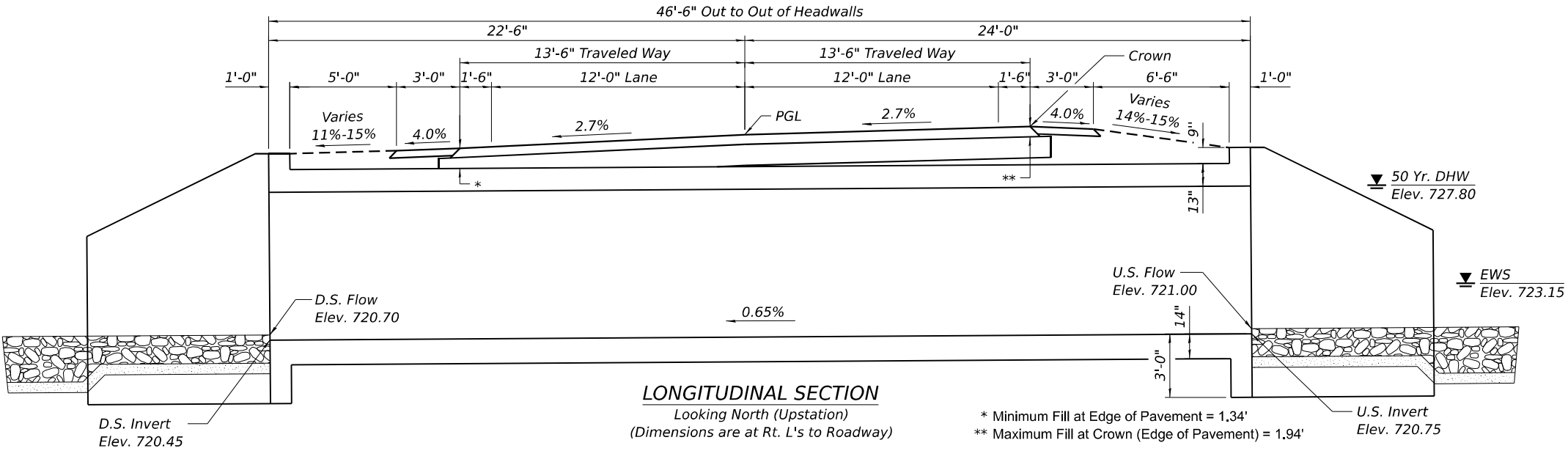


DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design
Specifications, 9th. Edition

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.



GENERAL PLAN & ELEVATION
OLD US 51 OVER DITCH
SBI ROUTE 2 - SECTION (55)CR
MCLEAN COUNTY
STA. 86+69.13
STRUCTURE NUMBER 057-2051



USER NAME =	DESIGNED - JE	REVISED -
	CHECKED - DCB	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - SAB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 057-2051

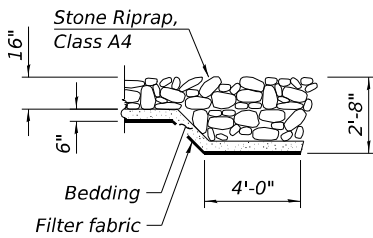
SHEET 1 OF 6 SHEETS

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	16
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

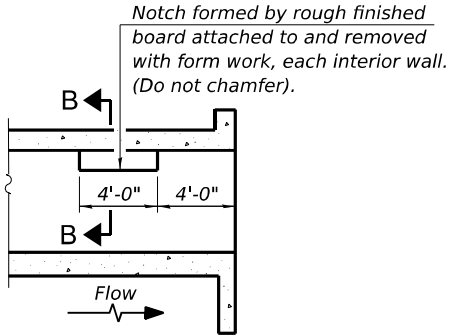
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INDEX OF STRUCTURAL SHEETS

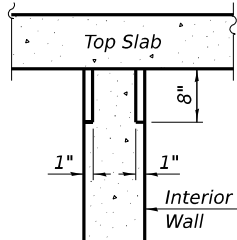
- 1 General Plan & Elevation
- 2 General Data
- 3 - 4 Culvert Details
- 5 - 6 Soil Borings



SECTION A-A



LONGITUDINAL SECTION



SECTION B-B

WATERWAY INFORMATION

Drainage Area = 1.6 Sq. Mi.		Low Grade Elev. 730.42 @ Sta. 86+69.13							
Flood	Freq. Yr.	Q C.F.S.	Opening Ft²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	10	450	84	130	727.5	0.4	0.0	727.9	727.5
Design	50	752	84	140	727.8	1.6	0.4	729.4	728.2
Base	100	891	84	140	728.0	2.3	0.7	730.3	728.7
Overtopping									
Max. Calc.	500	1,230	84	140	728.6	Over	1.5	Over	730.1

10 Year Velocity through existing structure = 5.75 ft/s
10 Year Velocity through proposed structure = 3.45 ft/s

PHOEBE NESTING

SITE DETAILS

(Downstream End Only)

STA. 86+69.13
BUILT BY
STATE OF ILLINOIS
SBI 2 (OLD US 51) SEC. (55)CR
LOADING HL-93
STR. NO. 057-2051

NAME PLATE LETTERING
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Ton	960
Stone Riprap, Class A4	Sq. Yd.	163
Filter Fabric	Sq. Yd.	163
Removal of Existing Structure	Each	1
Reinforcement Bars, Epoxy Coated	Pound	31,740
Name Plate	Each	1
Concrete Box Culverts	Cu. Yd.	166.2
Geocomposite Wall Drain	Sq. Yd.	148
Membrane Waterproofing System for Buried Structures	Sq. Yd.	148

GENERAL NOTES:

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

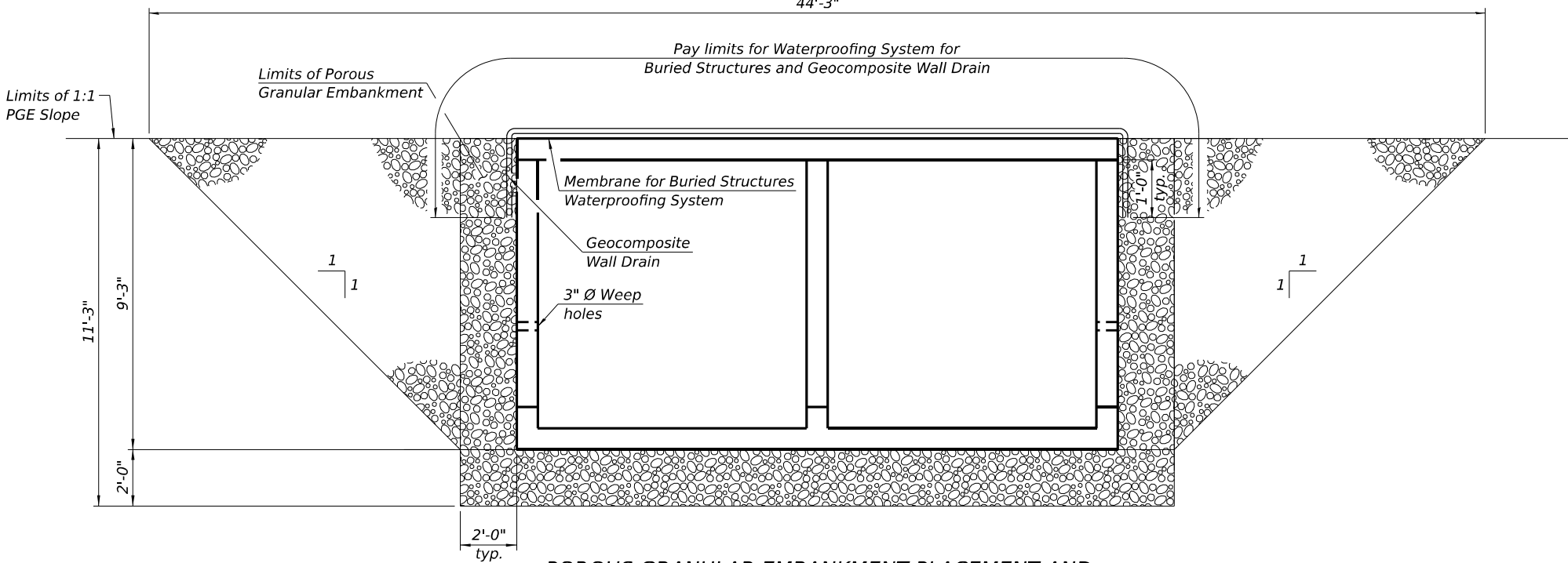
Precast alternative is NOT ALLOWED.

The course aggregate quality shall be Class D or better and the aggregate gradation shall be CA-6 or CA-10.

The area to be excavated for the proposed box culvert shall not be measured for payment. Cost included with Concrete Box Culverts.

Porous granular embankment shall be placed within 1 ft. from ends of wingwalls and shall terminate 1 ft. below the top of the wingwall as shown on Sheet 4 of 6. Porous granular embankment will be measured for payment in tons, to the limits shown. If the Contractor chooses to excavate beyond the limits shown, additional quantities of porous granular embankment will be at their expense.

GENERAL DATA
OLD US 51 OVER DITCH
SBI ROUTE 2 - SECTION (55)CR
MCLEAN COUNTY
STA. 86+69.13
STRUCTURE NUMBER 057-2051



POROUS GRANULAR EMBANKMENT PLACEMENT AND
MEMBRANE WATERPROOFING SYSTEM

Note:
Geocomposite Wall drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Waterproofing System for Buried Structures.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
S.N. 057-2051

SHEET 2 OF 6 SHEETS

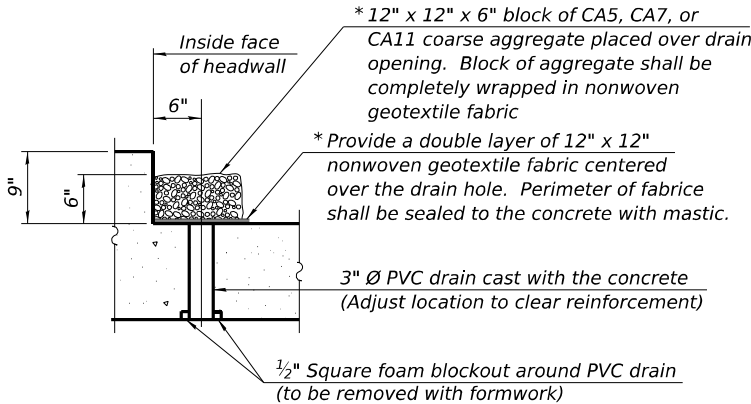
SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	17
		CONTRACT NO. 70D72		
ILLINOIS		FED. AID PROJECT		

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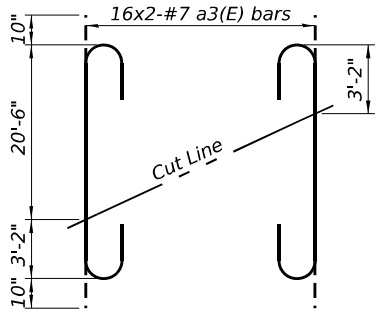
USER NAME =	DESIGNED - JE	REVISED -
	CHECKED - DCB	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - SAB	REVISED -

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



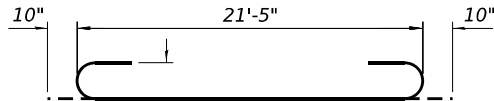
DRAIN DETAIL

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

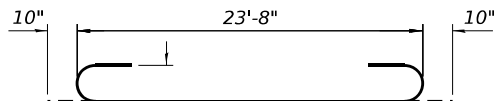


FIELD CUTTING DIAGRAM

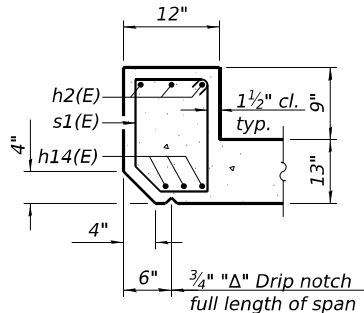
Order a3(E) full length. Cut as shown and use remainder of bars in opposite end of slab.



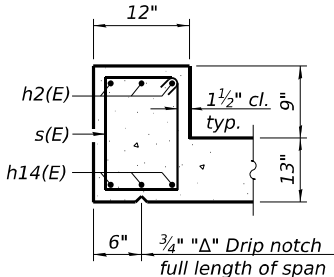
BAR a(E)



BAR a3(E)



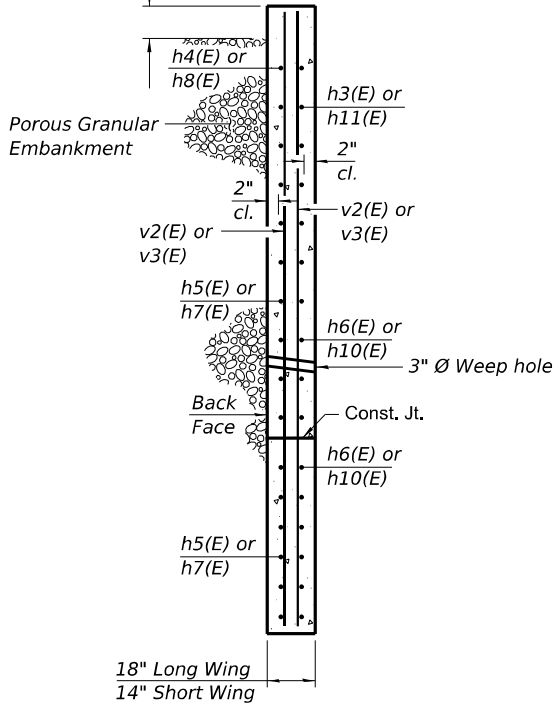
UPSTREAM



DOWNSTREAM

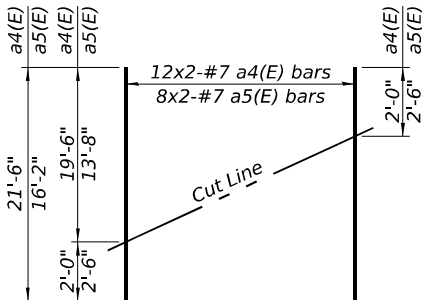
SECTION THRU HEADWALL

1'-0" Limits of Porous Granular Embankment, Typ.



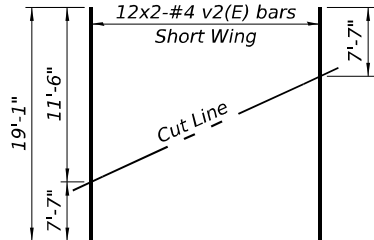
SECTION A-A

h9(E) & h12(E) not shown for clarity



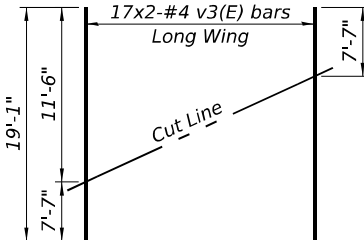
FIELD CUTTING DIAGRAM

Order a4(E) and a5(E) full length. Cut as shown and use remainder of bars in opposite end of slab.



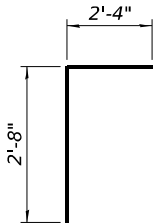
FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

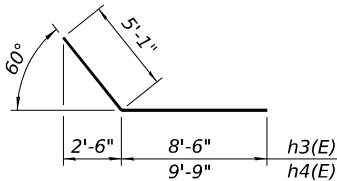


FIELD CUTTING DIAGRAM

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

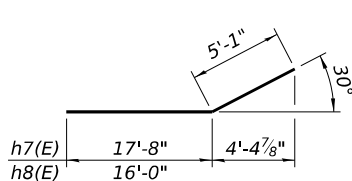


BAR d(E)

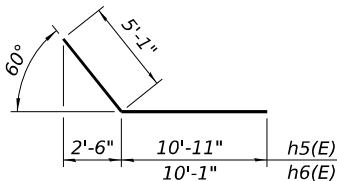


BARS h3(E) & h4(E)

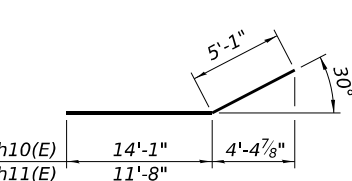
Cut in field to fit



BARS h7(E) & h8(E)

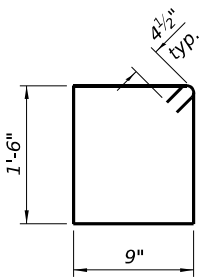


BARS h5(E) & h6(E)

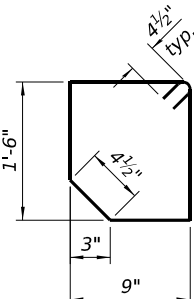


BARS h10(E) & h11(E)

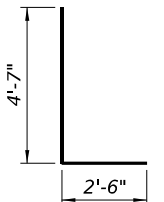
Cut in field to fit



BAR s(E)



BAR s1(E)



BAR v1(E)

MODEL: Culvert Details
FILE NAME: S:\PROJECTS\2023\1371D23_IDOTD51WO 2 Contract 70D72\CAD_SHEETS\0572051-D570D72-004-Culvert Details.dgn



USER NAME =	DESIGNED - DCB	REVISED -
	CHECKED - SAB	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - SAB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 057-2051

SHEET 4 OF 6 SHEETS

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	19
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

Page 1 of 2

Date 3/6/24

ROUTE	SBI 2 (Old US 51)	DESCRIPTION	Culvert over Ditch S of Heyworth	LOGGED BY	KEG
--------------	-------------------	--------------------	----------------------------------	------------------	-----

SECTION (55)CR **LOCATION** 40°18'24.10" N, 88°58'40.13" W

COUNTY McLean DRILLING METHOD HSA HAMMER TYPE AUTO

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

BBS, form 137 (Rev. 8-99)

Page 2 of 2

Date 3/6/24

ROUTE	<u>SBI 2 (Old US 51)</u>	DESCRIPTION	<u>Culvert over Ditch S of Heyworth</u>	LOGGED BY	<u>KEG</u>
--------------	--------------------------	--------------------	---	------------------	------------

SECTION (55)CR **LOCATION** 40°18'24.10" N, 88°58'40.13" W

COUNTY McLean DRILLING METHOD HSA HAMMER TYPE AUTO

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

BBS, form 137 (Rev. 8-99)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

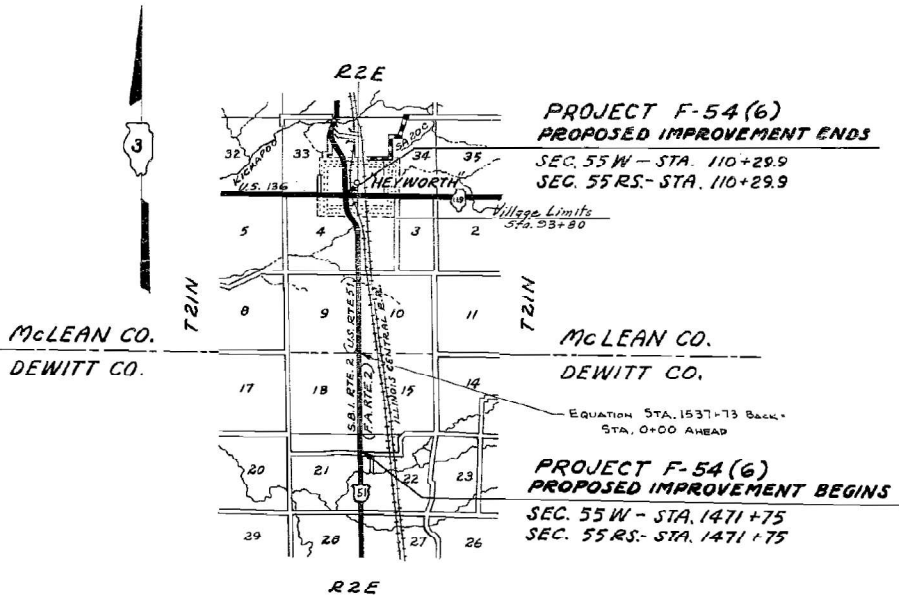
PLAN 1 INCH = 100 FT.
PROFILE HOR. 1 INCH = 100 FT.
PROFILE VERT. 1 INCH = 10 FT.
CROSS-SECTIONS 1 INCH = 5 FT. VERT.
CROSS-SECTIONS 1 INCH = 10 FT. HORIZ.

S.B.I. ROUTE 2 SEC. 55W,RS
DeWITT - McLEAN Co's
PROJECT F-54(6)

ROUTE	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
2	55W	DeWITT	35	1
2	55RS	McLEAN	12	1
F-54(6)				



LOCATION OF SECTION INDICATED THUS:—



APPROXIMATE SCALE 1" = 1 MILE = 5280 FEET
PROJECT NET LENGTH = 17,627.9 FEET = 3.339 MILES.
NET LENGTH SEC. 55W = 17,627.9 FT. = 3.339 MILES
NET LENGTH SEC. 55RS = 17,627.9 FT. = 3.339 MILES

STATE OF ILLINOIS }
COUNTY OF LASALLE }
I, FRANCIS B. SEITZ, REGISTERED PROFESSIONAL ENGINEER No. 18330, DO
HEREBY CERTIFY THAT THE PLANS, SPECIAL PROVISIONS AND ESTIMATE OF COSTS FOR
S.B.I. ROUTE 2, SECTION 55W,RS, DeWITT AND McLEAN COUNTIES WERE DESIGNED,
COMPILED AND DRAWN UNDER MY SUPERVISION IN ACCORDANCE WITH THE
"ILLINOIS PROFESSIONAL ENGINEERING ACT."

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
SUBMITTED: [Signature]
TRAINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]
APPROVED: [Signature]

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER
DATE

681 ROUTE 2 SEC. 55 W, RS DeWITT - McLEAN COUNTY



WILLET HOFMANN
ASSOCIATES, INC.
ENGINEERING, ARCHITECTURE, AND SURVEYING
809 EAST 2ND STREET, UNION, ILLINOIS 61859
TEL: 815/594-1381 FAX: 815/594-1382

USER NAME =	DESIGNED - KM	REVISED -
	CHECKED - DCB	REVISED -
PLOT SCALE =	DRAWN - DJB	REVISED -
PLOT DATE =	CHECKED - SAB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
S.N. 057-8216

SHEET 1 OF 4 SHEETS

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	22
CONTRACT NO. 70D72				

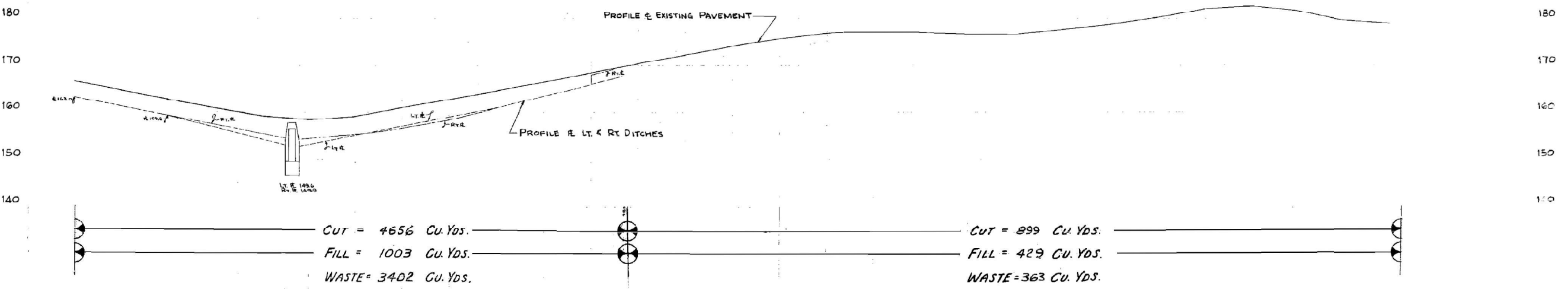
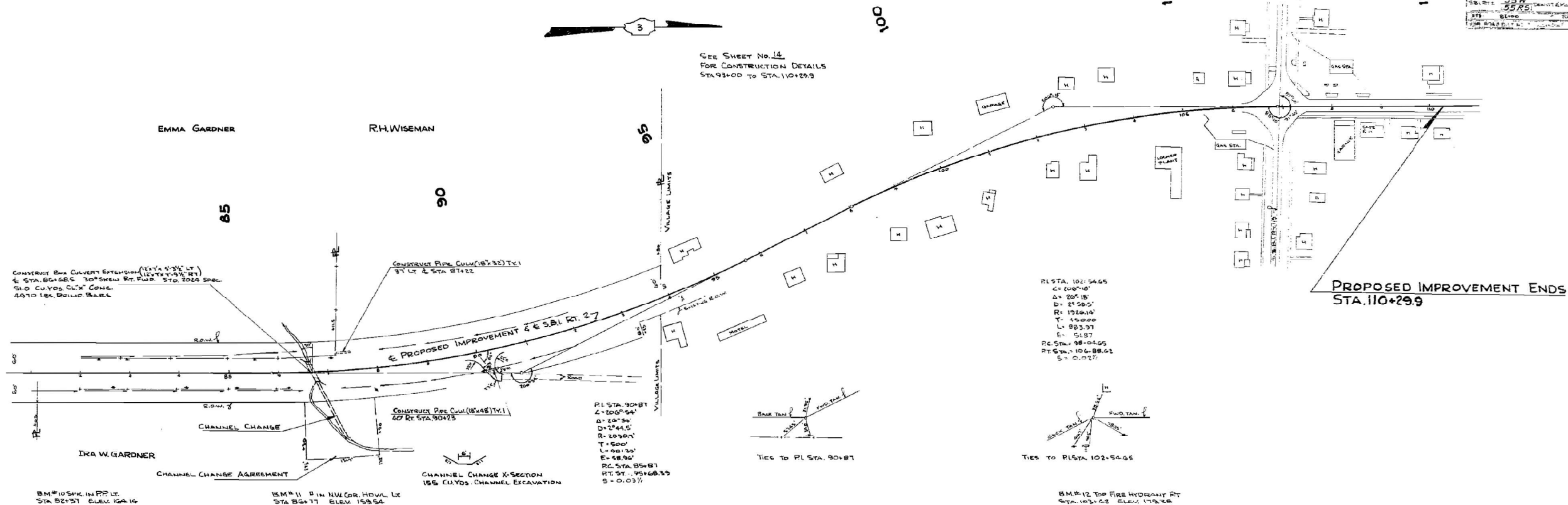
ILLINOIS FED. AID PROJECT

MODEL: EXISTING CULVERT PLANS 1
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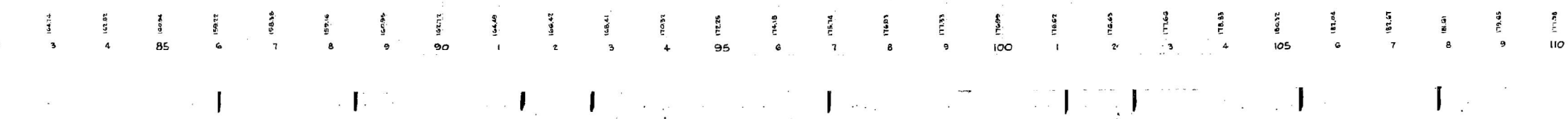
SBI ROUTE 2 SEC. 55 W, RS DEWITT & McLEAN COUNTIES

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55 W	DEWITT & McLEAN	35	23
55 RS		72	10
STS	BLDG	ST	BLDG
CONTRACT NO.	70D72	PROJECT	

SEE SHEET NO. 14
FOR CONSTRUCTION DETAILS
STA 93+00 TO STA 110+29.9



CUT = 4656 Cu. Yds.	CUT = 899 Cu. Yds.
FILL = 1003 Cu. Yds.	FILL = 429 Cu. Yds.
WASTE = 3402 Cu. Yds.	WASTE = 363 Cu. Yds.



MODEL: EXISTING CULVERT PLANS 2
FILE NAME: S:\PROJECTS\2023\137\1D23_IDOTDSIWO 2 Contract 70D72\CAD_SHEETS\0572051-D570D72-Existing Culvert Details.dgn



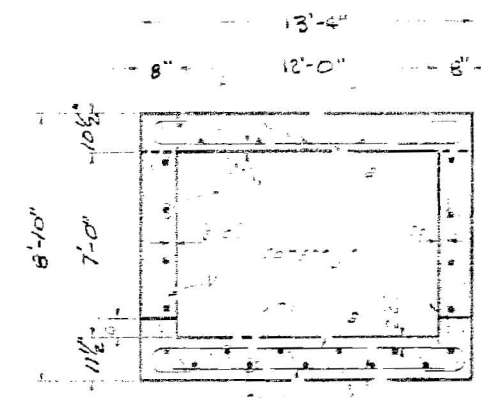
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	CHECKED - DCB	REVISED -
PLOT SCALE =	DRAWN - DJB	REVISED -
PLOT DATE =	CHECKED - SAB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

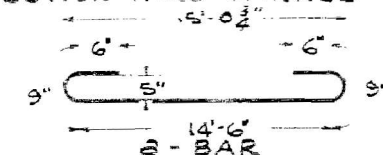
EXISTING PLANS
S.N. 057-8216

SHEET 2 OF 4 SHEETS

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	23
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				



SECTION THRU BARREL



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
5	68	#7	17'-0"
5	5	#6	14'-3"
5	24	#6	5'-5"
-	36/36	#6	6'-6 3/4"
-	17/17	#4	6'-6 3/4"
-	18	#6	8'-3"
-	18	#6	14'-9"
-	4	#7	14'-0"
+			
	34	#4	8'-0"
1/2	52	#5	6'-6"
1/3	22	#4	5'-0"
1/6	26	#4	6'-6"
1/4	14	#3	17'-6"
1/4	14	#3	11'-6"
1	78	#5	7'-9"
Class X Concrete - 510			510
Reinforcement Bars - 5230			5230
EXPANSION BOLTS			44

NOTE: All bars shall be round ASTM A305-C9.
The size number is the number of
1/4 inches in the nominal diameter.

S.B.I. RT.2 SEC. 55W
STA. 86+68.5

STANDARD 2024

GENERAL NOTES

Class X concrete shall be used thru-out.
Exposed edges shall be beveled $3\frac{1}{2}$ ".
For Backfilling and embankment, see standard
Specifications.
Tilt hook of "a" bars, if necessary, to obtain
16" minimum clearance at top of hook.

$f_s = 20,000 \text{ #/s}$
 $f_c = 1200 \text{ #/s}$
 $n = 10$
 H 20 LOADING.

H 20 LOADING.

STANDARD	COMPUTED
	CHECKED
	DRAWN <i>B. H. WOOD</i>
SPECIAL	CHECKED
	ASSEMBLED
	CHECKED

Footings & Reinf. Revised - 11-50 - J. S. M.
Footings Revised 4-47

EXAMINED 10-25 1957
V. M. Lomine
PASSED *[Signature]* BRIDGE ENGINEER
APPROVED *[Signature]* ENGINEER IN CHARGE
1314 *[Signature]* CHIEF OF DISTRICT

EXISTING PLANS
S.N. 057-8216

SHEET 3 OF 4 SHEETS

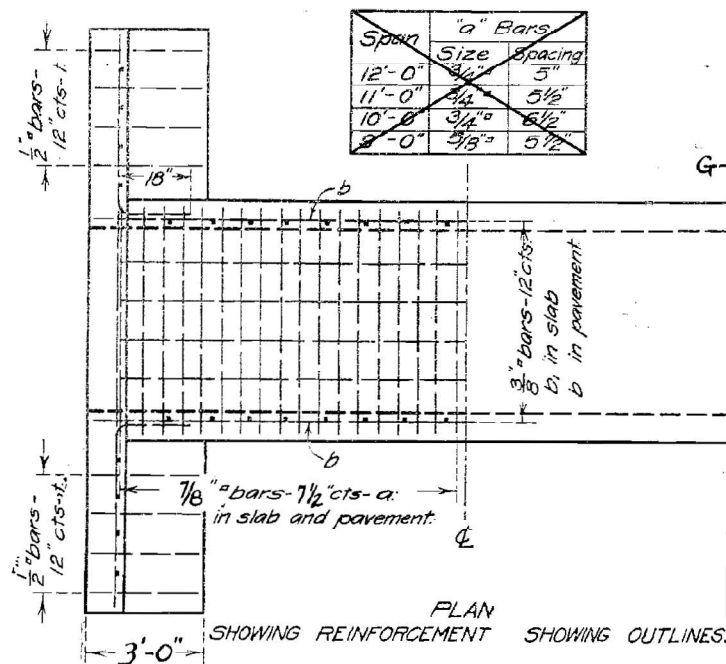
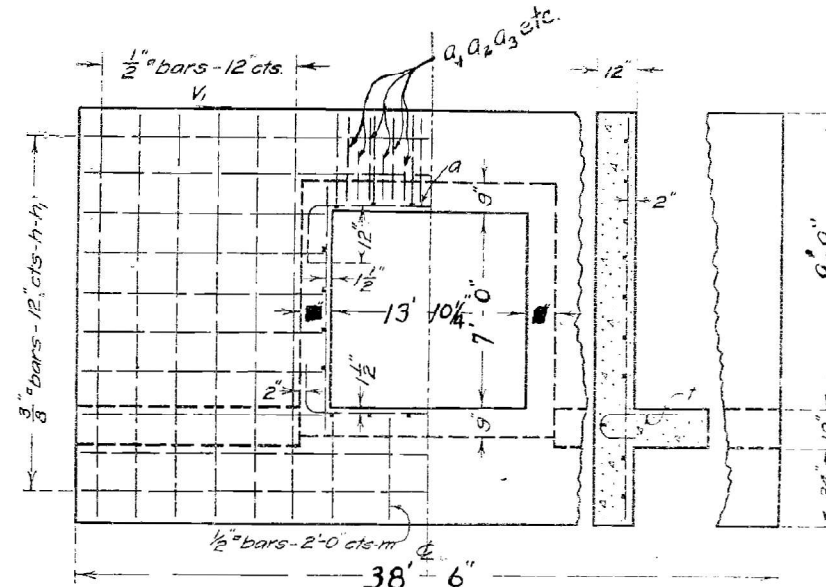
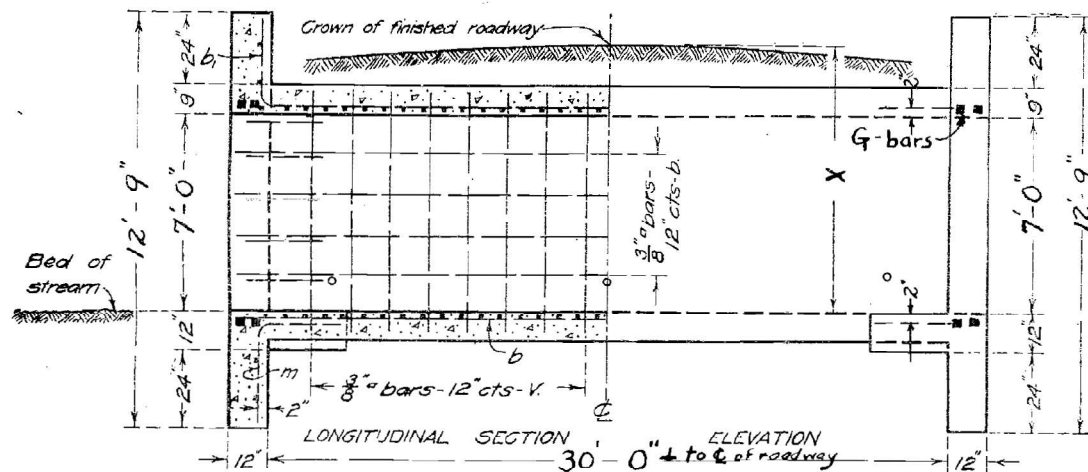
SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	24
		CONTRACT NO. 70D77		
		ILLINOIS	FED. AID PROJECT	

B.M. nail + washer in TP
Rt. Sta. 86 + 50
El. 88.62

STATE OF ILLINOIS
STATE HIGHWAY DEPARTMENT
REINFORCED CONCRETE BOX CULVERT

Note: Bend a_1, a_2 etc. into
head walls.

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
2	DEWITT MCLEAN	55	36	34



Note - Use "m" bars in downstream headwall only.
Box is designed for no fill.
Maximum clearance = 9'-0".

BILL OF MATERIAL

Bars	No.	Size	Length
V	70	3/8"	8'-0"
h	48	1/2"	12'-3"
Q ₃	8	7/8"	11'-6"
h	16	3/8"	20'-0"
h ₁	16	3/8"	14'-6"
h ₂	16	3/8"	12'-6"
a	88	7/8"	15'-0"
b	52	3/8"	19'-0"
b ₁	24	3/8"	21'-0"
Q ₁	8	7/8"	15'-6"
t	48	1/2"	3'-6"
m	7	1/2"	5'-0"
Q ₂	8	7/8"	13'-6"
G	8	7/8"	22'-6"
Steel - Lbs. 7120			
Concrete - Cu. Yds. 72.1			
Q ₄	8	7/8"	9'-0"
Q ₅	8	7/8"	7'-0"

Class A concrete to be used throughout
Prop. 1-2 1/2-4

Sta. 86+65

S.B.I. Route 2

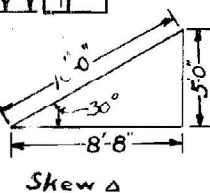
Section 55 - McLean Co.

621

COMPUTED	Walter J. Judd
CHECKED	H. L. Bunch
DRAWN	W. A. J.
CHECKED	W. A. J.
ASSEMBLED	W. A. J.
CHECKED	W. A. J.

EXAMINED
APPROVED
Feb 15, 1923

Passed
Engineer of Design



Skew Sketch

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
S.N. 057-8216

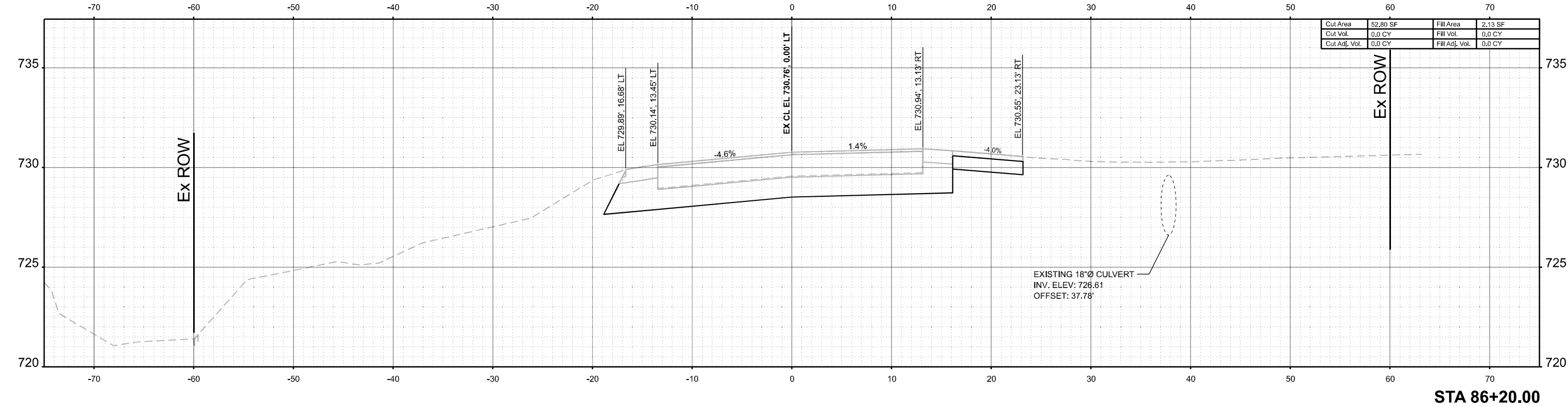
SHEET 4 OF 4 SHEETS

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR		35	25
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

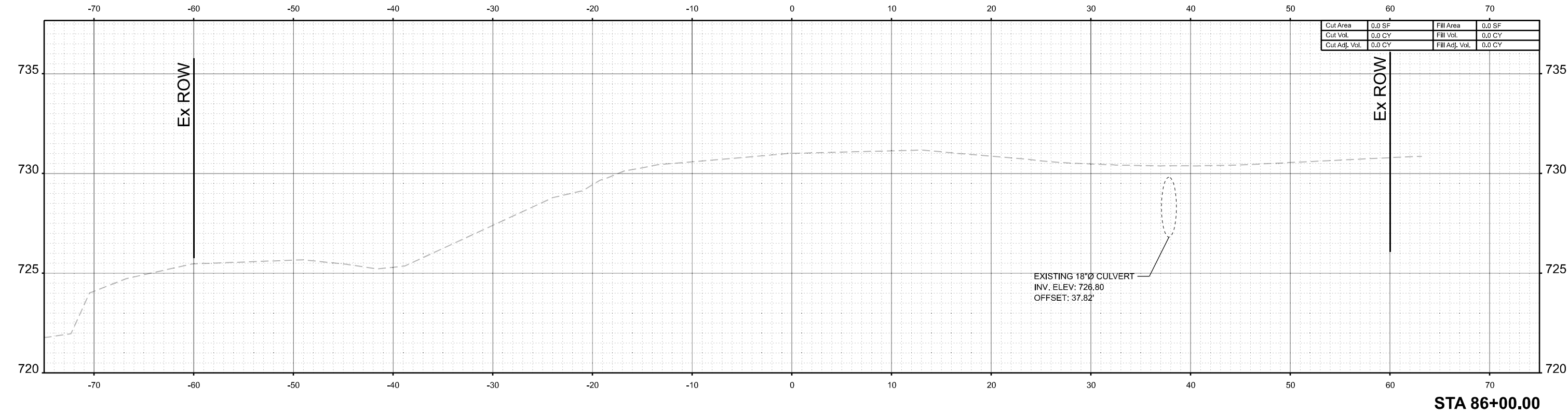
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ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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FILE NAME: S:\PROJECT\2023\137\123 IDOT\51W0 2 Contract 70D72\CAD_SHEET\5072051-70D72-shlCross Sections.dgn



Cut Area	52.80 SF	Fill Area	2.13 SF
Cut Vol.	0.0 CY	Fill Vol.	0.0 CY
Cut Adj. Vol.	0.0 CY	Fill Adj. Vol.	0.0 CY



Cut Area	0.0 SF	Fill Area	0.0 SF
Cut Vol.	0.0 CY	Fill Vol.	0.0 CY
Cut Adj. Vol.	0.0 CY	Fill Adj. Vol.	0.0 CY



USER NAME = kmahmood	DESIGNED -	###	REVISED -	####
	DRAWN -	###	REVISED -	####
	CHECKED -	###	REVISED -	####
	PLOT DATE =	7/18/2025	REVISED -	####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

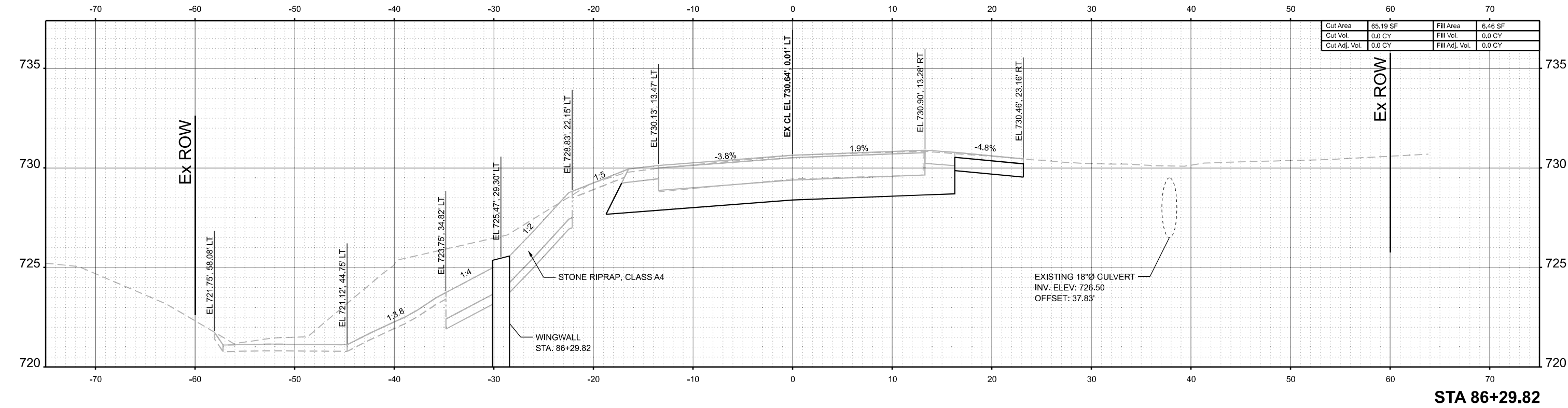
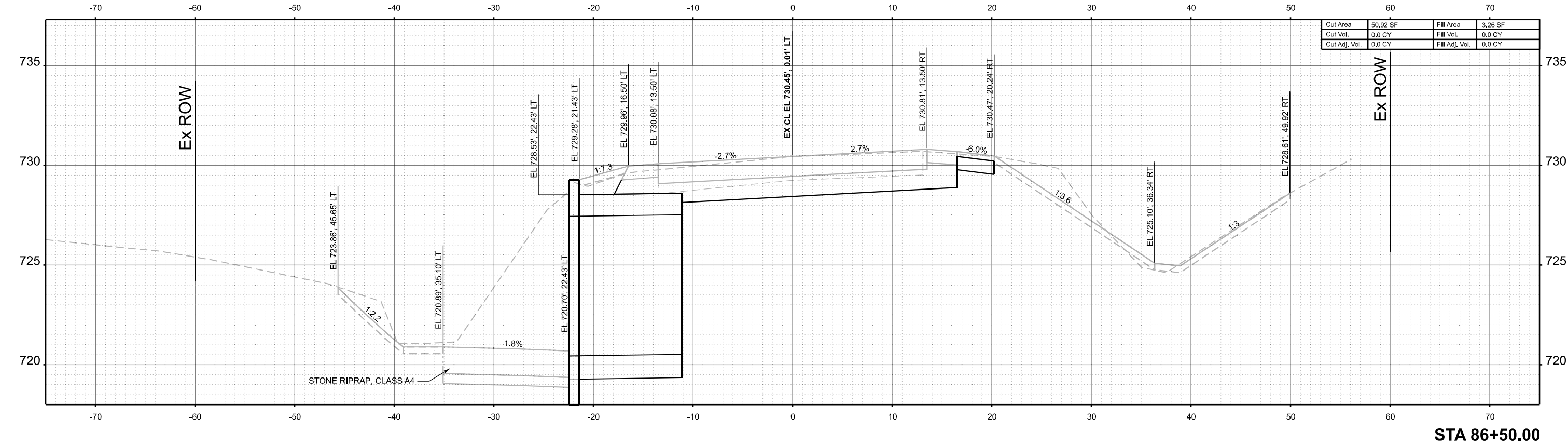
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SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	26
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = kmahmood	DESIGNED ###	REVISED - ####
	DRAWN ###	REVISED - ####
	CHECKED ###	REVISED - ####
PLOT DATE = 7/18/2025	DATE ###/##/2025	REVISED - ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

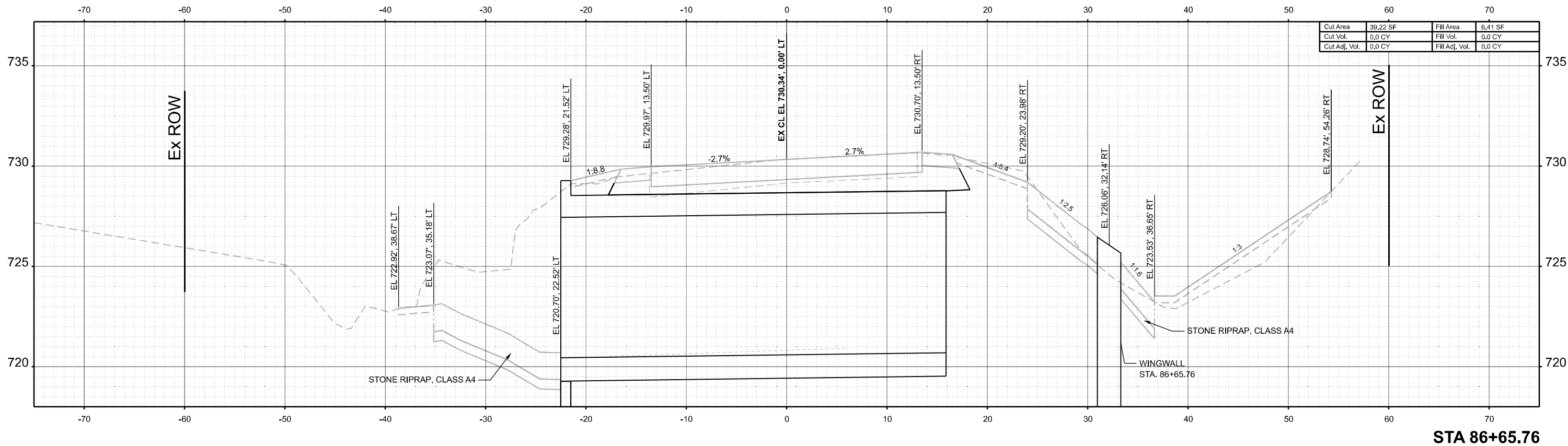
CROSS SECTIONS

SCALE: 1"=5' SHEET 2 OF 5 SHEETS STA. 86+29.82 TO STA. 86+50.00

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	27
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

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

MODEL: ExCLUS51 - 86+65.76 [Sheet]



WILLETT HOFMANN
ASSOCIATES INC.
P.O. BOX 1000, NEW BRIDGE, N.J. 08053-1000 TEL: 609-328-0900 FAX: 609-328-0901
809 S. 25th ST. 2ND FL., DODD, IL 61221 815/221-9367
F: 815-284-3381 TOLL FREE: 1-800-441-0001

USER NAME = kmahmood	DESIGNED - AKK	REVISED - ####
	DRAWN - AKK	REVISED - ####
	CHECKED - AKK	REVISED - ####
PLOT DATE = 7/18/2025	DATE - 07/18/2025	REVISED - ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

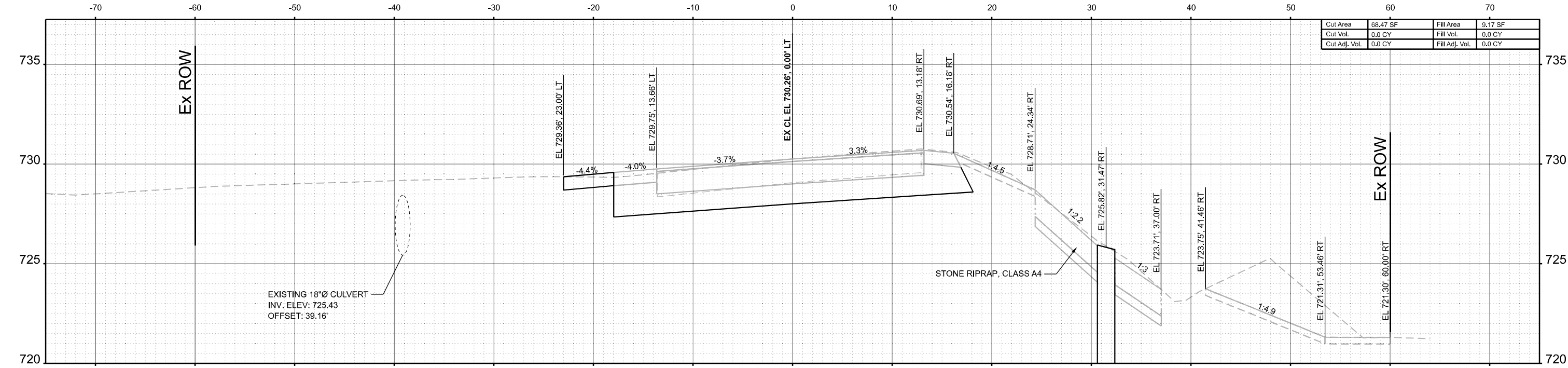
SCALE: 1"=5'	SHEET	3	OF	5	SHEETS	STA. 86+65.76	TO STA. 86+73.46
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SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	28
		CONTRACT NO. 70D72		
ILLINOIS		FED. AID PROJECT		

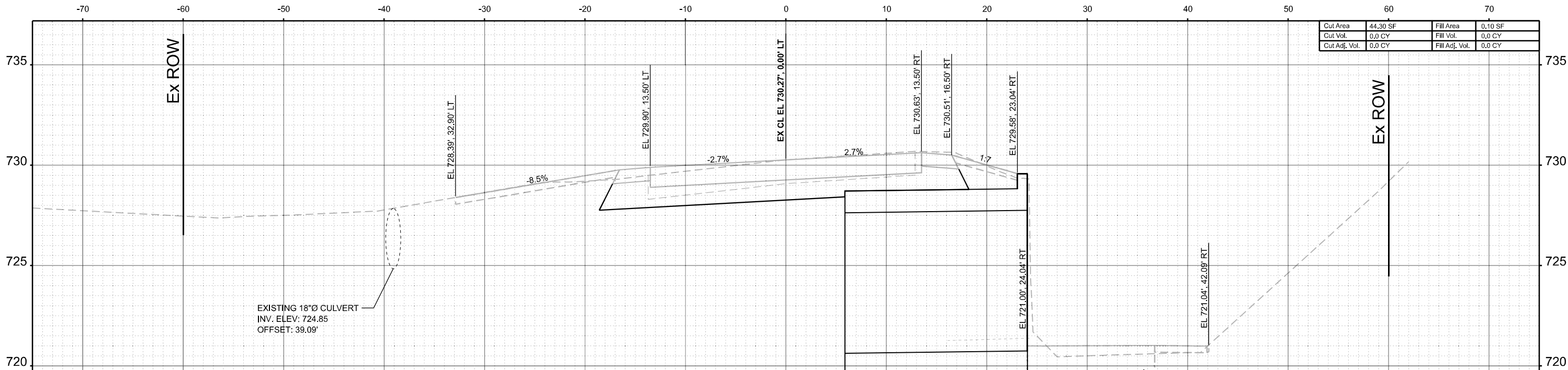
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SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
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	CHECKED		

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

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STA 87+08.12



STA 86+85.00



USER NAME	= frank
DESIGNED	- ###
DRAWN	- ###
CHECKED	- ###
PLOT DATE	= 7/18/2025

REVISED	- ####
REVISED	- ####
REVISED	- ####
REVISED	- ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

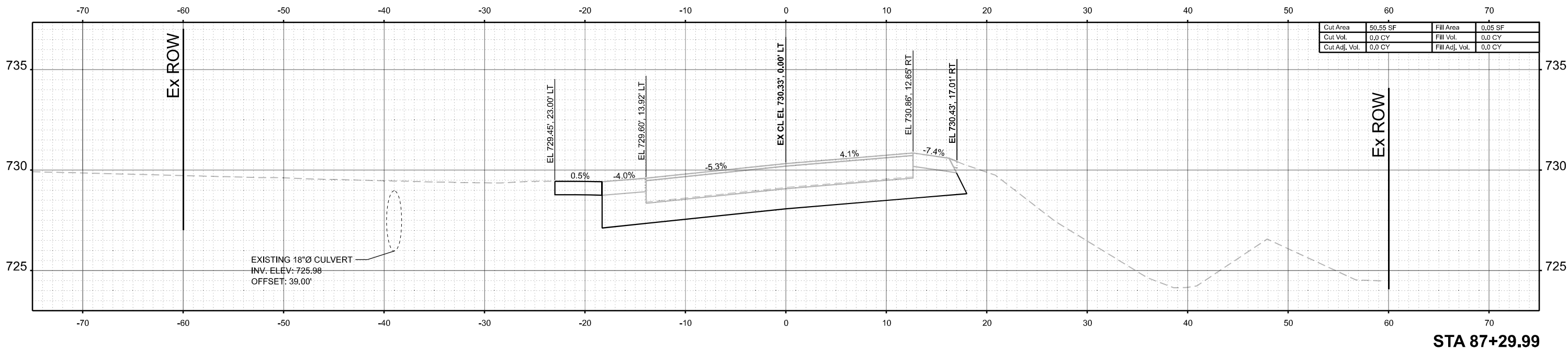
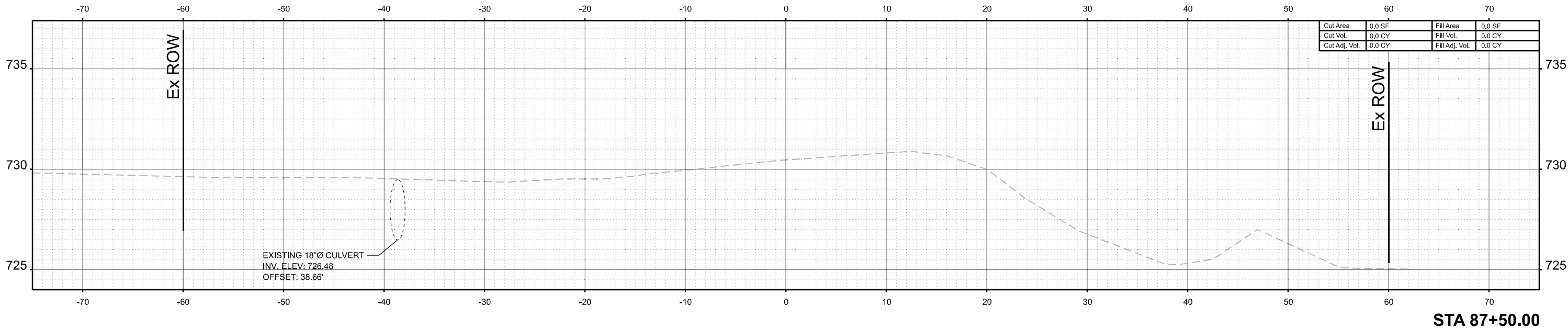
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SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	29
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY	NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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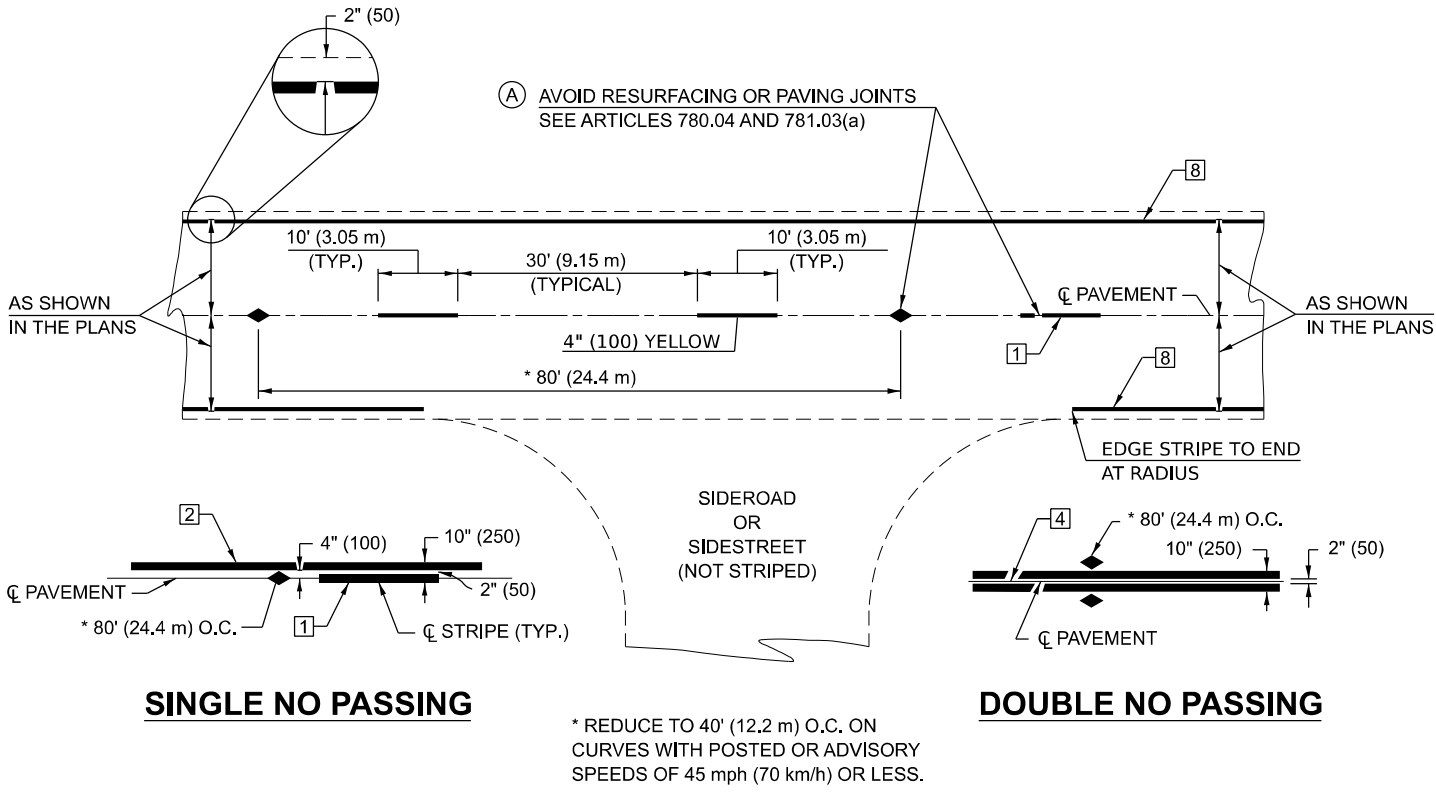
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		CHECKED - ###	REVISED - ####
	DATE - 07/18/2025	REVISED - ####	REVISED - ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5' SHEET 5 OF 5 SHEETS STA. 87+29.99 TO STA. 87+50.00

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	30
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				



SINGLE NO PASSING

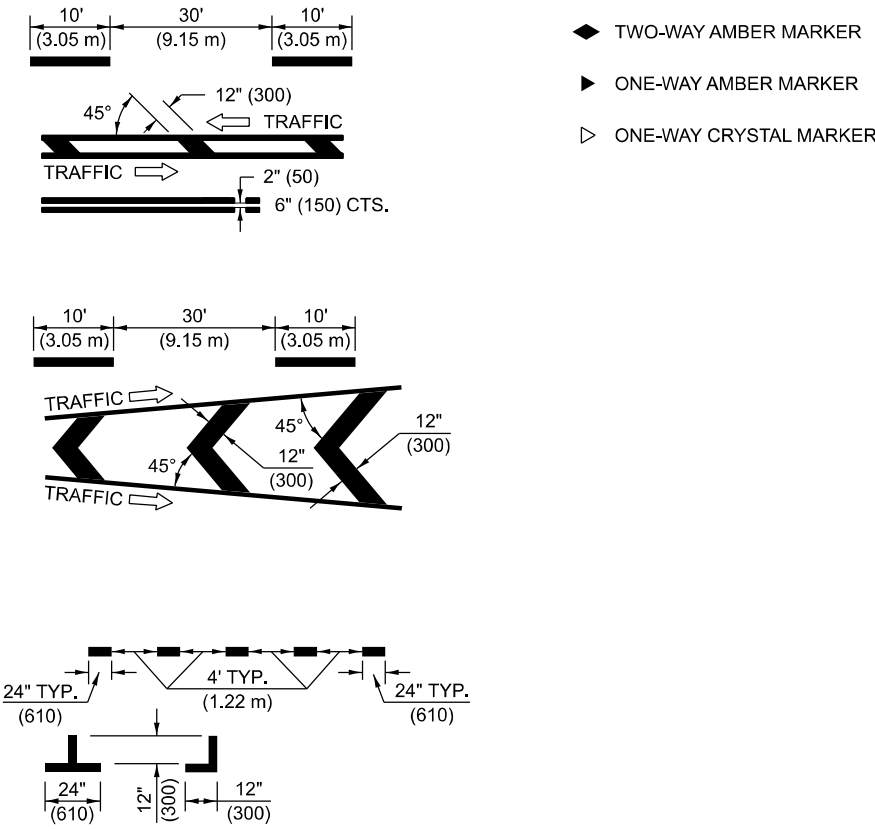
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TWO LANE/TWO WAY

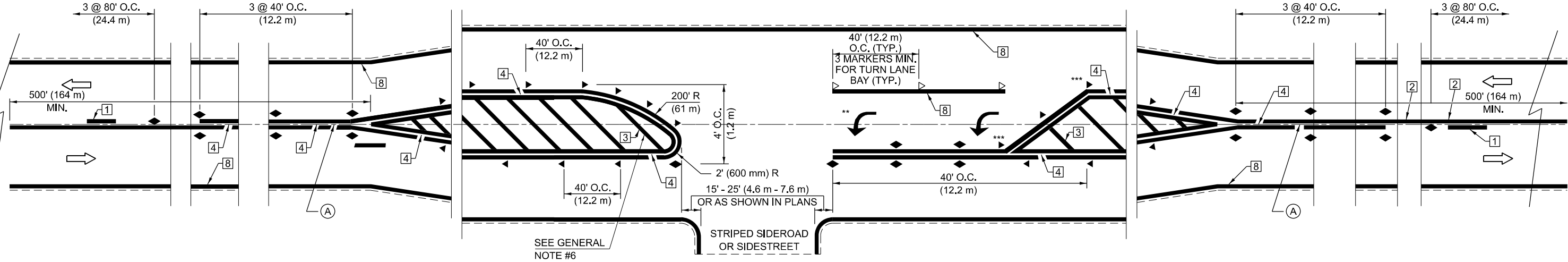
TYPICAL PAVEMENT MARKING LENGEND

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

TYPICAL PAVEMENT MARKERS LENGEND



RURAL LEFT TURN



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

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

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

MODEL: DETAILS 1
FILE: NAME: S:\PROJECTS\70D72\70D72-511-Details.dgn
7/30/2025 10:34:29 AM



USER NAME = frank	DESIGNED - KM	REVISED -
DRAWN - DJB	REVISD -	
PLOT SCALE =	CHECKED - DCB	REVISED -
PLOT DATE = 7/30/2025	DATE - 09/11/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

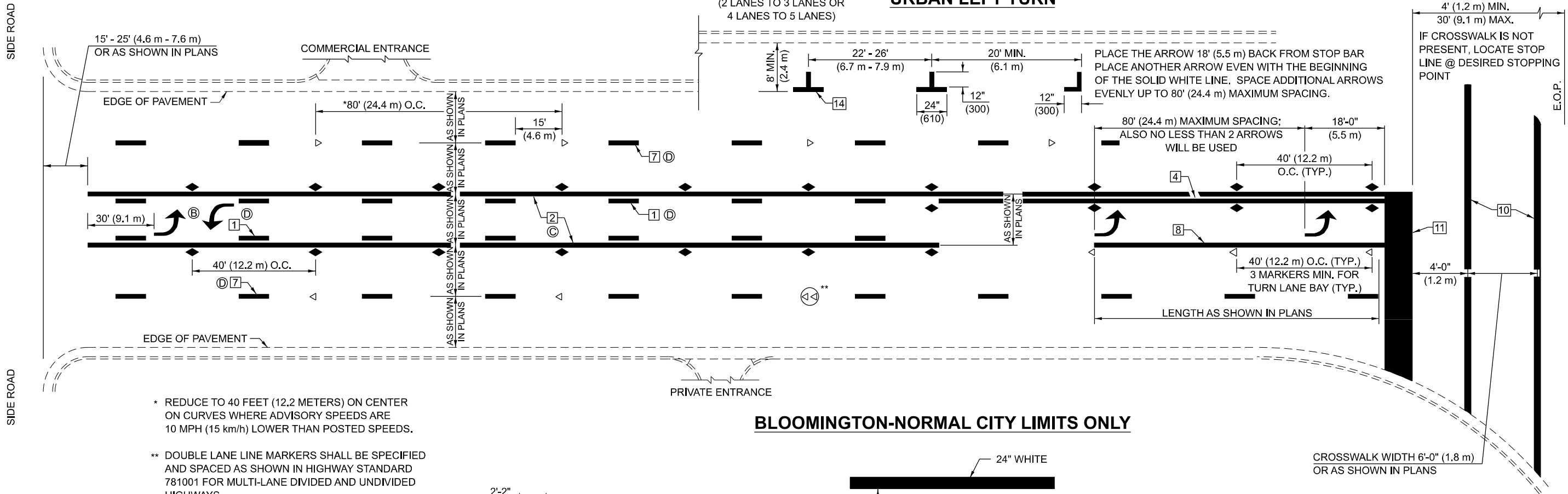
PAVEMENT MARKINGS AND MARKERS (RURAL & URBAN APPLICATIONS)

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	31
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				

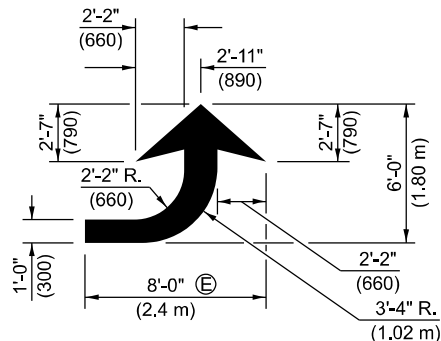
DISTRICT 5 DETAIL 7800AAAA

MODEL: DETAILS 2
FILE NAME: S:\PROJECTS\2023\1371D23_IDOT5WO 2 Contract 70D72\CAD_SHEETS\0572051-70D72-shi-Details.dgn



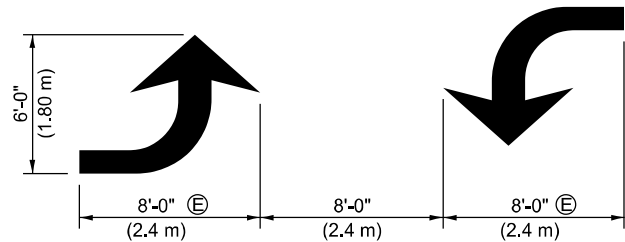
GENERAL NOTES:

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS² SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS¹OR⁷ SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

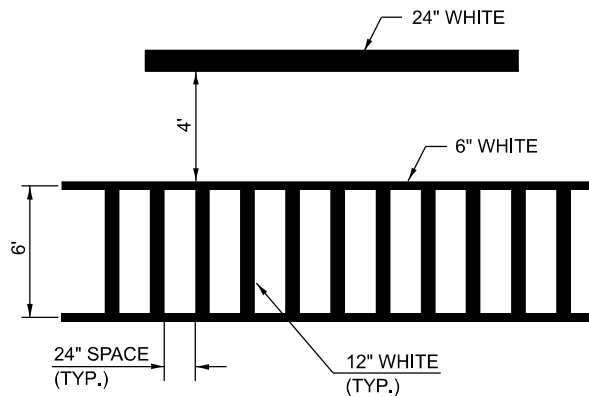


LEFT ARROW

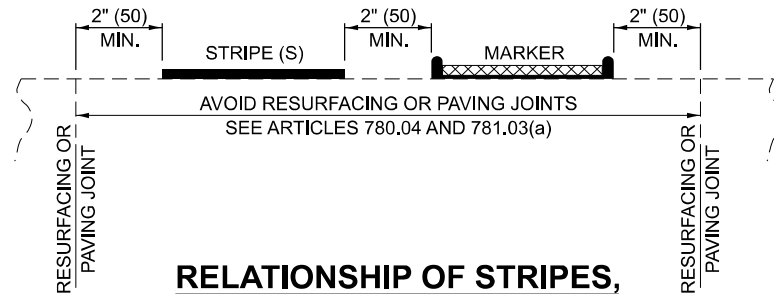
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m)
(WHITE)



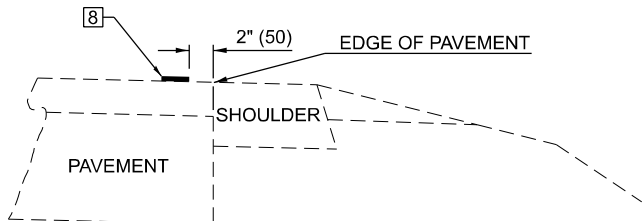
TYPICAL DOUBLE TURN ARROWS (WHITE)



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

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



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USER NAME = frank
PLOT SCALE =
PLOT DATE = 7/30/2025

DESIGNED - KM
DRAWN - DJB
CHECKED - DCB
DATE - 09/11/2024

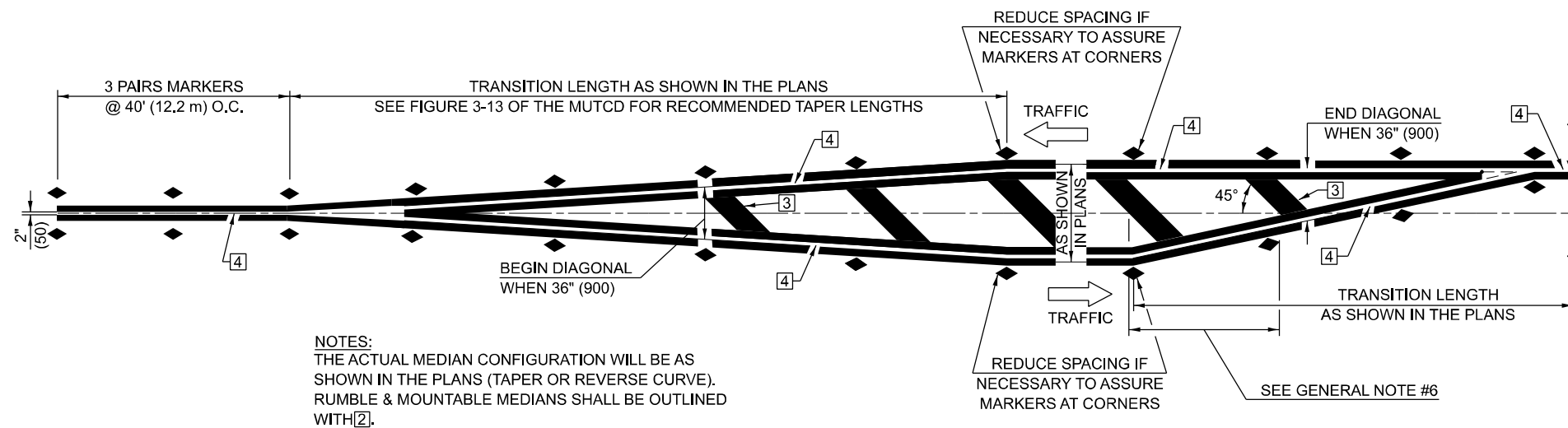
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

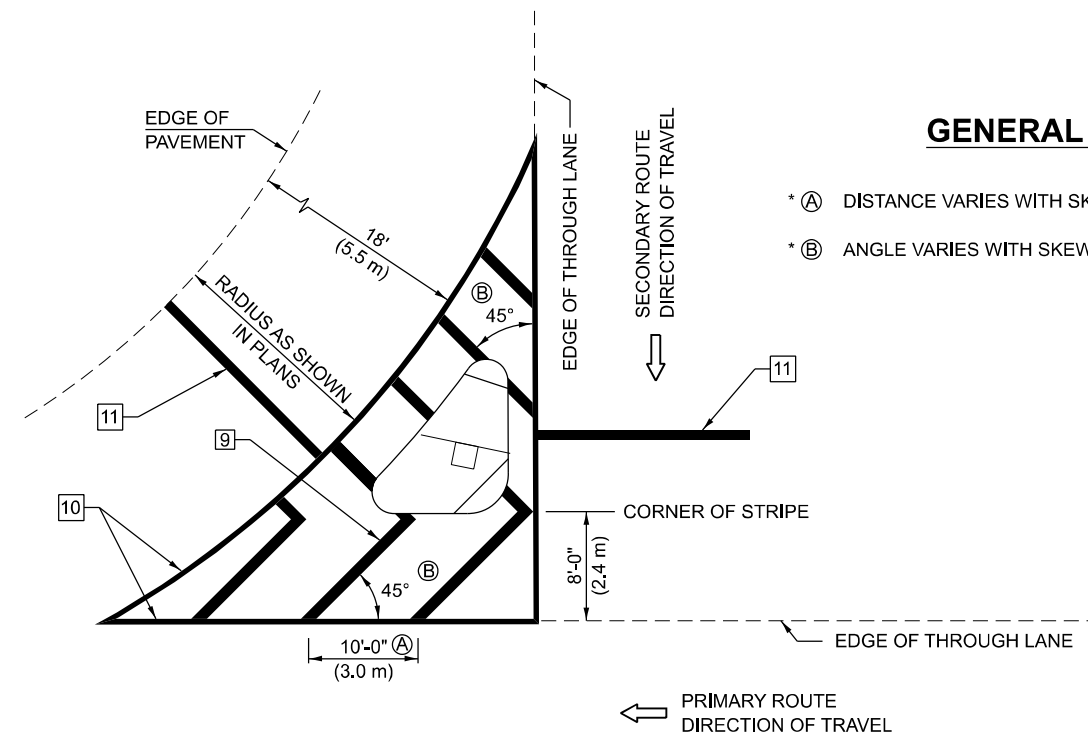
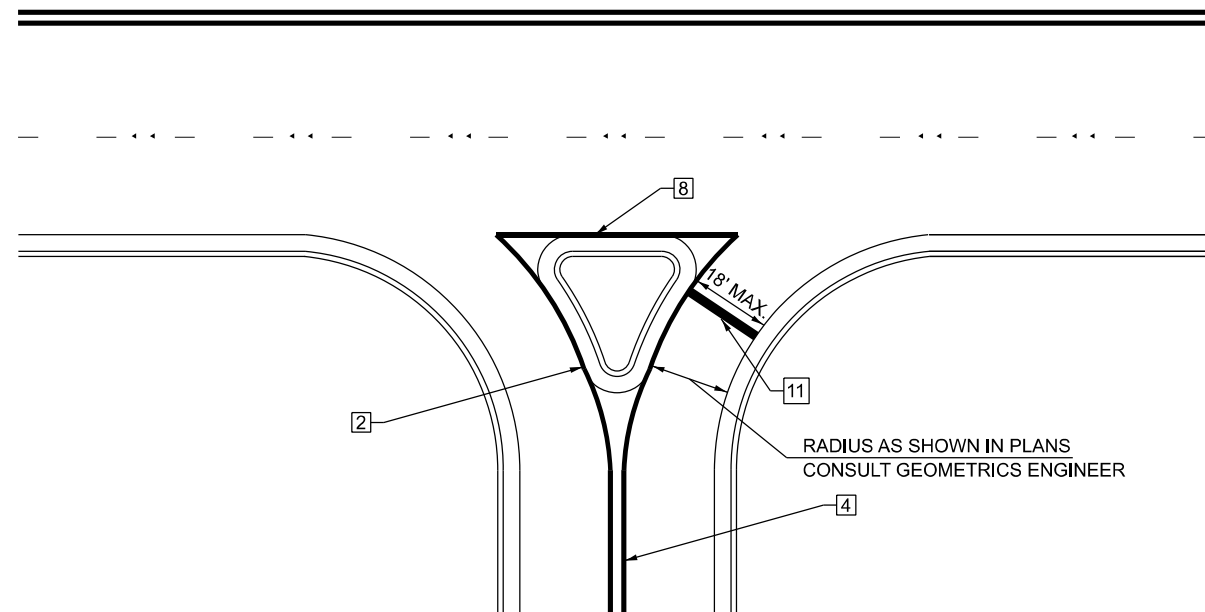
PAVEMENT MARKINGS AND MARKERS (RURAL & URBAN APPLICATIONS)

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	32
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				



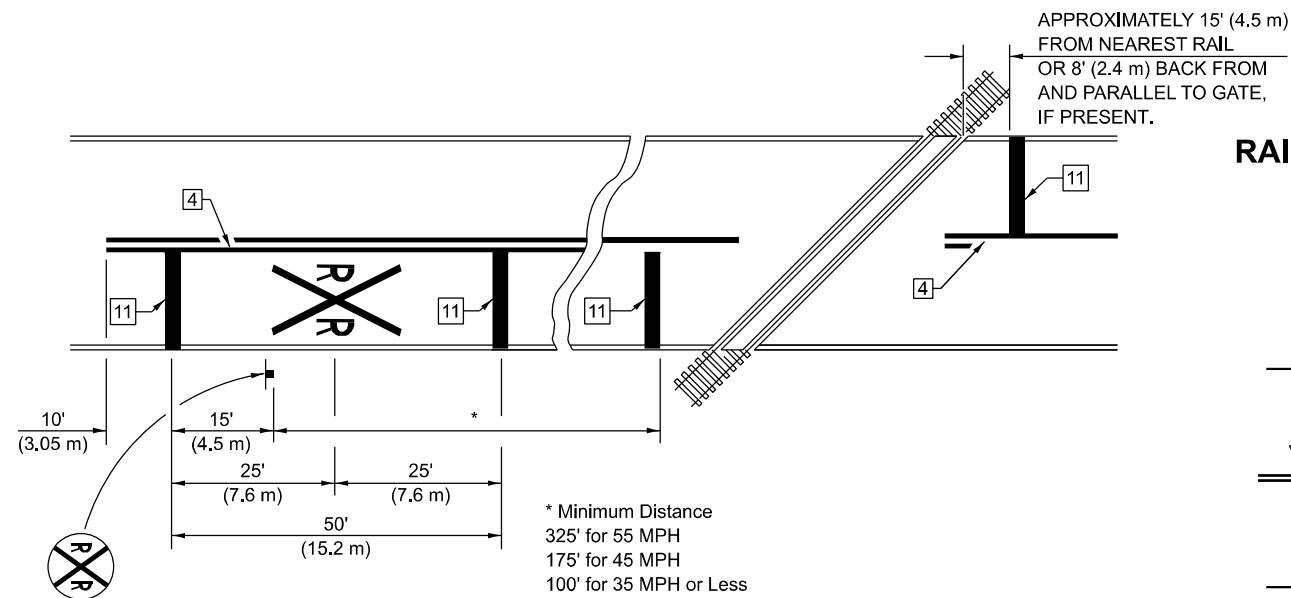
- ## **GENERAL NOTES**
1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
 2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
 3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
 4. A STRIPING KEY IS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



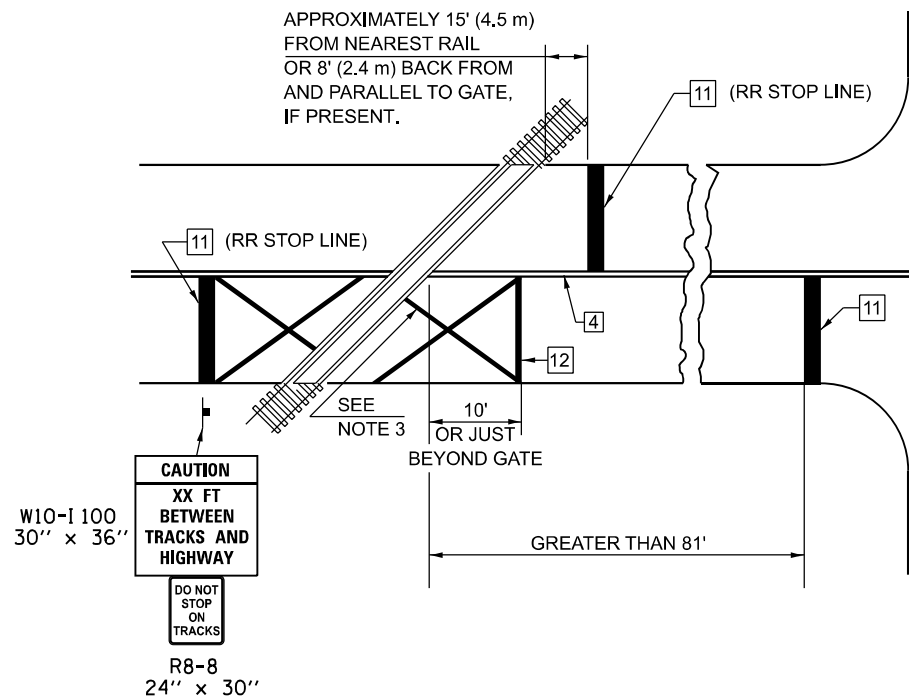
- * (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * (B) ANGLE VARIES WITH SKEW OF INTERSECTION.

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

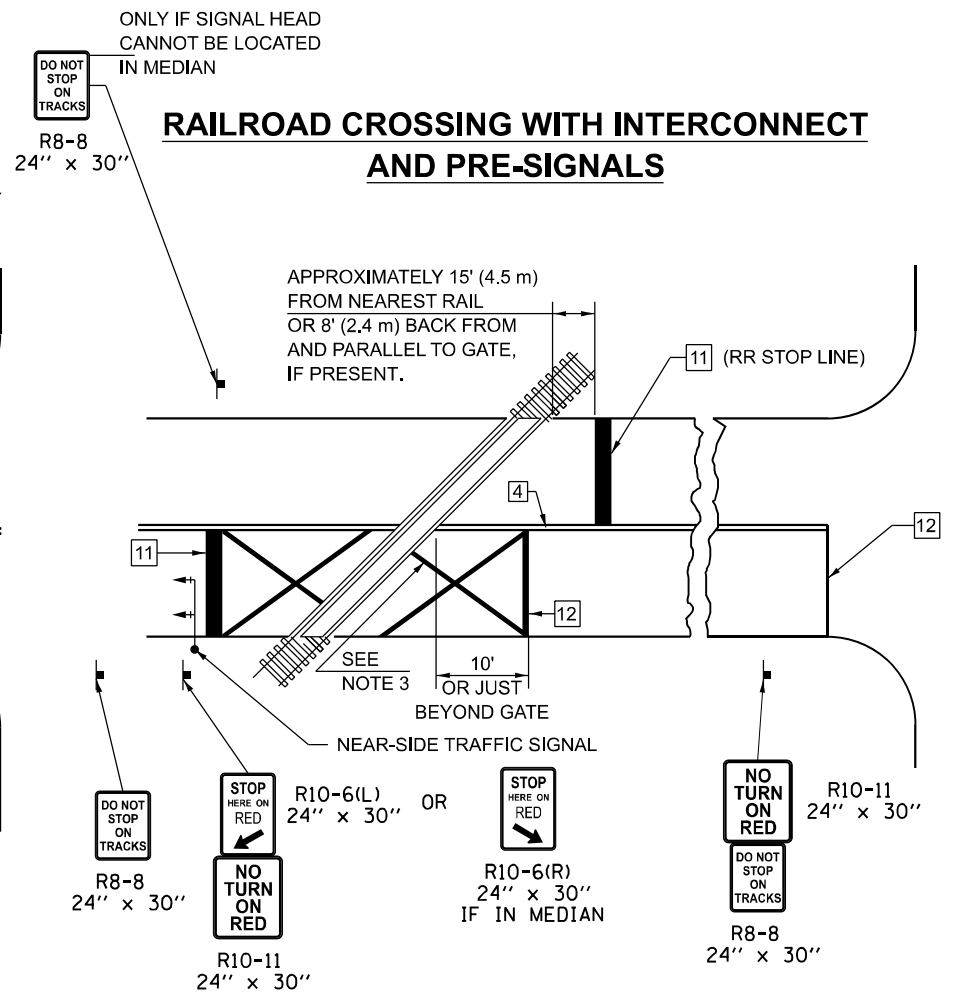
Note: All dimensions are in INCHES
(millimeters) unless otherwise shown.



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

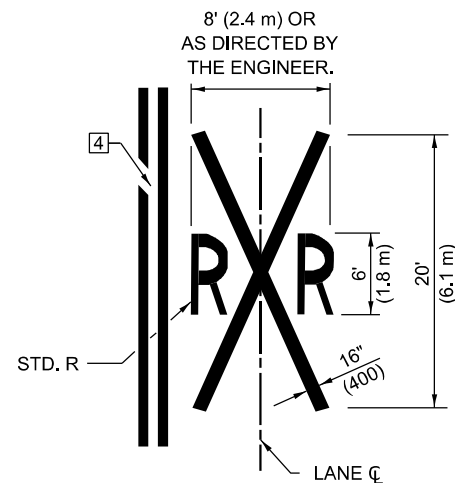


RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



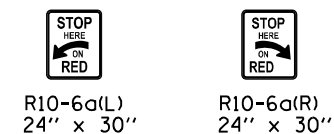
GENERAL NOTES

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



SUPPLEMENT PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

ALTERNATE SIGNS



NOTES

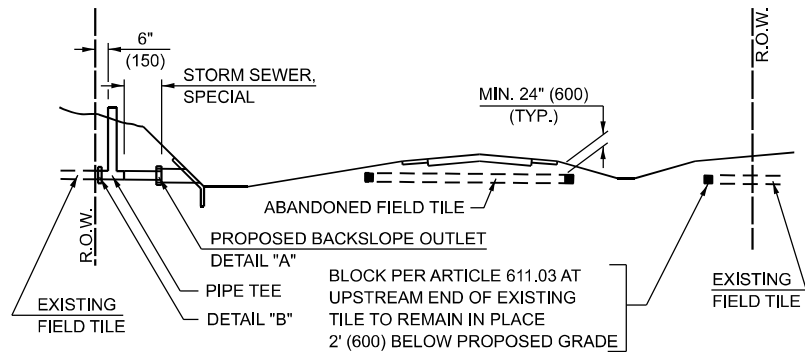
THE TRAVERSE SPREAD OF THE "X"
MAY VARY ACCORDING TO LANE WIDTH.

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

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

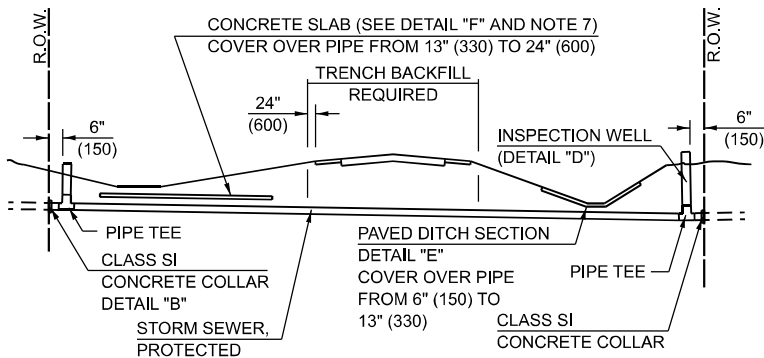
Note: All dimensions are in **INCHES**
(millimeters) unless otherwise shown.

MODEL: DETAILS 5
FILE NAME: S:\PROJECTS\2023\137\ID23_ID05\WO 2 Contract 70D72\CAD_SHEETS\0572051-1-70D72-shi-Details.dgn
7/30/2025 10:34:31 AM



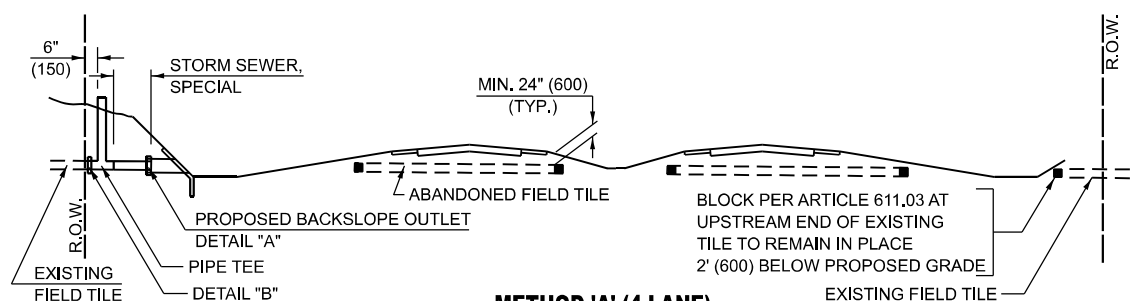
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



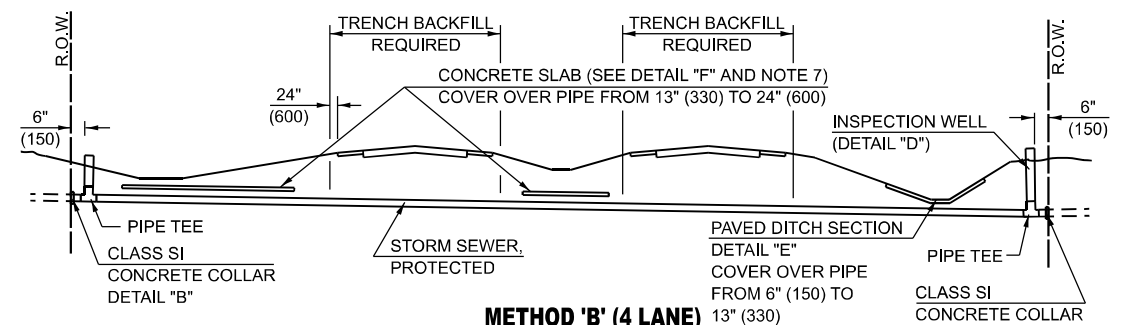
METHOD 'B' (2 LANE)

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



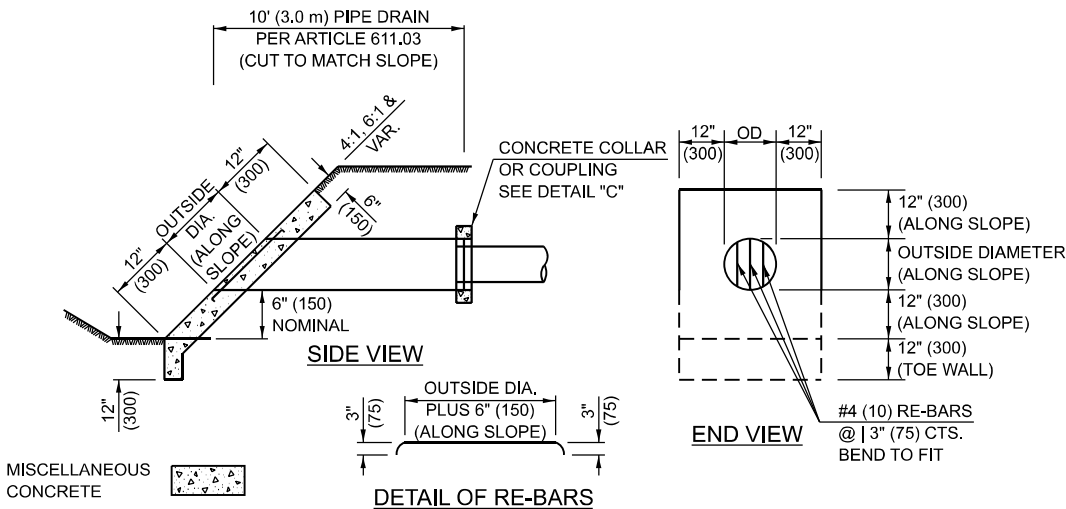
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

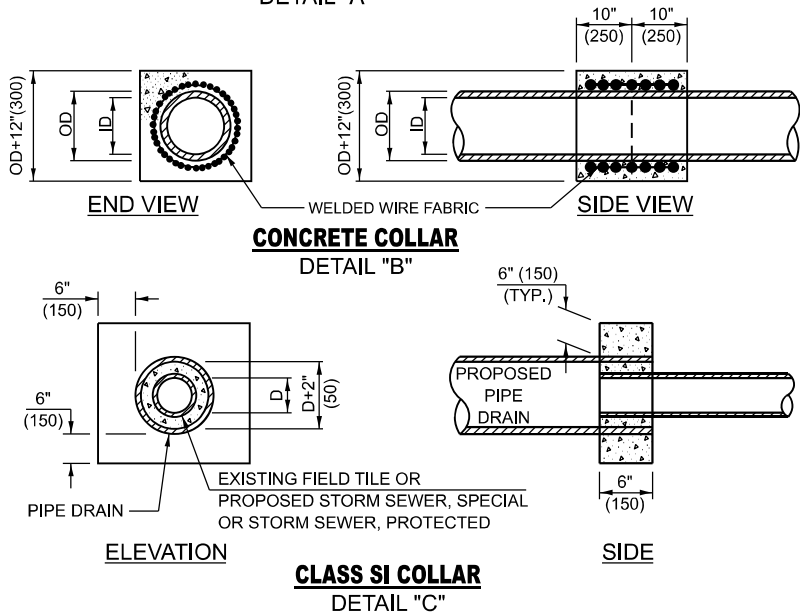


METHOD 'B' (4 LANE)

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

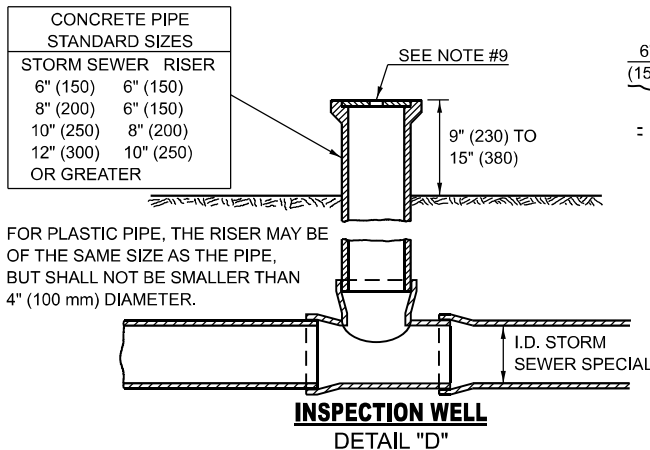


**HEADWALL FOR BACKSLOPE OUTLET
DETAIL "A"**



**CONCRETE COLLAR
DETAIL "B"**

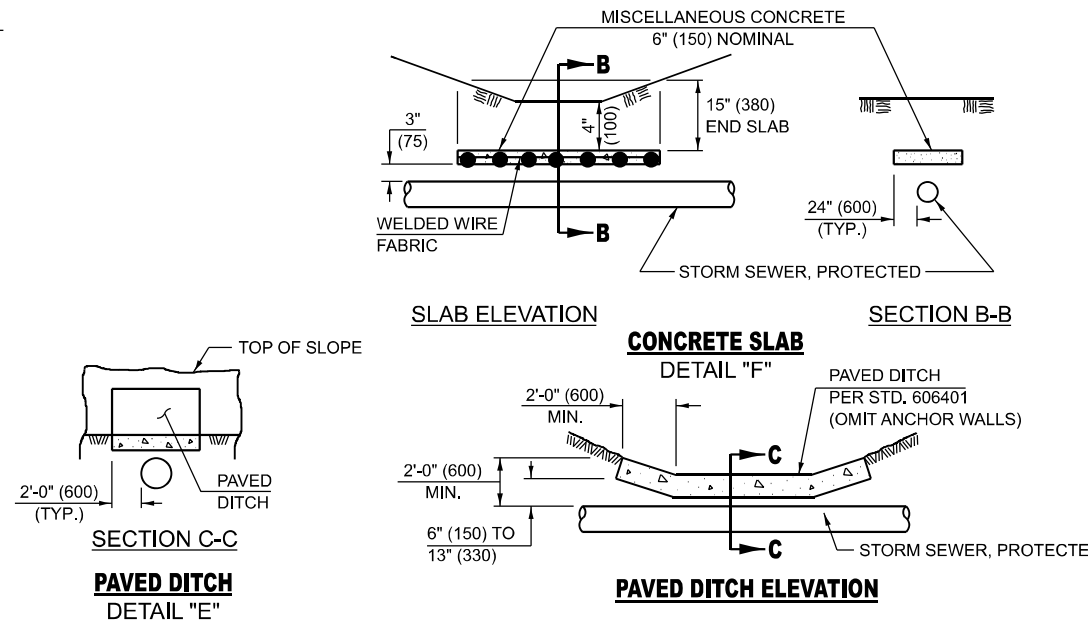
**CLASS SI COLLAR
DETAIL "C"**



**INSPECTION WELL
DETAIL "D"**

GENERAL NOTES

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



SLAB ELEVATION

SECTION B-B

**CONCRETE SLAB
DETAIL "F"**

PAVED DITCH ELEVATION

SECTION C-C

**PAVED DITCH
DETAIL "E"**

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

DISTRICT 5 DETAIL NO. 61101011A



USER NAME	= frank
PLOT SCALE	=
PLOT DATE	= 7/30/2025

DESIGNED	- KM
DRAWN	- DJB
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DATE	- 09/11/2024

REVISED	-
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REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

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

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	(55)CR	MCLEAN	35	35
CONTRACT NO. 70D72				
ILLINOIS FED. AID PROJECT				