06–13–2025 LETTING ITEM 221

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	129	1
	ILLINOIS	CONTRACT NO. 68510		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

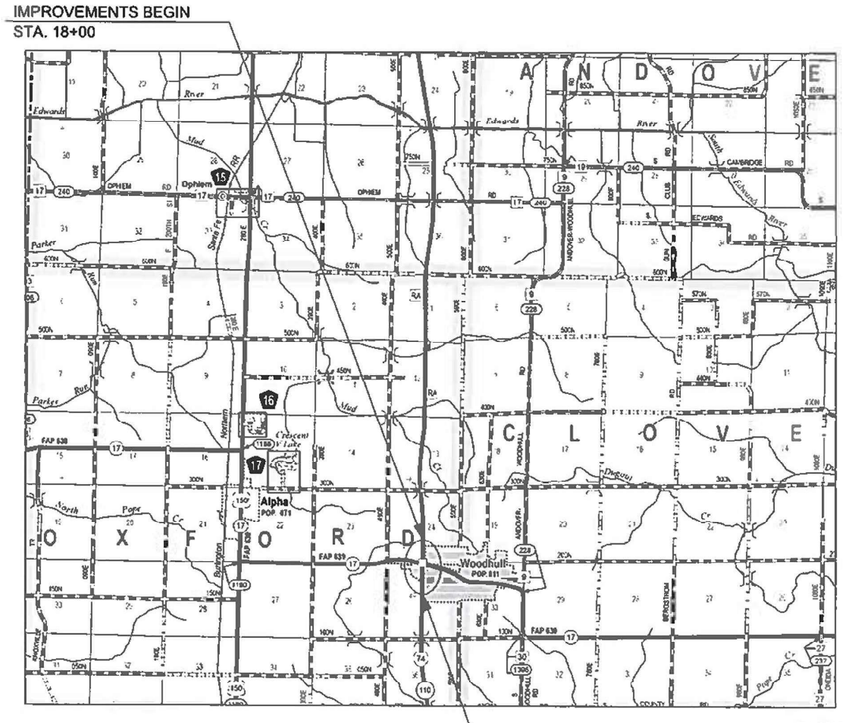
FAI ROUTE I74 (INTERSTATE 74)
SECTION (37-24HVB)BR
PROJECT NHPP-6D6N(743)
BRIDGE REPLACEMENT
HENRY COUNTY

C-94-118-05

D-94-102-05

LOCATION OF SECTION INDICATED THUS:-

IMPROVEMENTS BEGIN
STA. 18+00



N

IMPROVEMENTS END
STA. 26+00

GROSS LENGTH = 800 FT. = 0.15 MILE

NET LENGTH = 800 FT. = 0.15 MILE

PROJECT DESCRIPTION:
REPLACEMENT OF SN 037-0019 (EB) & 037-0020 (WB) WITH SN 037-0049 (EB) & 037-0053 (WB) CARRYING I-74 OVER IL 17, PAVEMENT TAPERS, CROSSOVERS TO MAINTAIN TRAFFIC, MINOR DRAINAGE IMPROVEMENTS, AND ANY OTHER COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT.

HIGHWAY STANDARDS

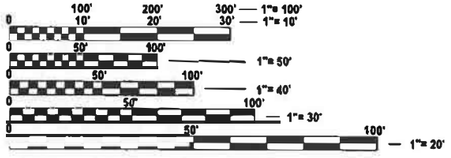
000001–08	542546–01	701101–05	720001–01
001001–02	601001–05	701106–02	720006–04
001006	601101–02	701400–12	720011–01
280001–07	630001–13	701401–13	725001–01
420001–10	630301–09	701406–13	729001–01
420401–13	631011–10	701411–09	780001–05
420701–03	631026–06	701416–11	781001–04
515001–04	631031–18	701426–09	782006–01
542301–03	666001–01	701456–05	830026–01
542411	667101–02	701901–10	
542521–02	701006–05	704001–08	

DISTRICT STANDARDS

205001–D4 406101–D4 667101–D4
205101–D4 630101–D4

DESIGN DESIGNATION (I–74)

INTERSTATE (2021)
ADT = 15,000
MU = 28.67%
SU = 3.17%



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 LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: DAVID BROVIAK 309-671-3493
PROJECT MANAGER: ELIAS ELDERZI 309-671-3482

CATALOG NO. 032264-02D
CONTRACT NO. 68510

DUSTIN M. SLIWA
062-067055
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

DUSTIN M. SLIWA
ILLINOIS P.E. 062-067055
DATE: 04/03/2025
EXPIRES: 11/30/2025
SHEETS: 1-55, 109-127

PLANS PREPARED BY:

VEENSTRA & KIMM INC.
552 W. BOUGHTON ROAD
BOLINGBROOK, IL 60440
PHONE: 630-755-0290

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 17 2025
Kenneth A Barnett KSD
REGIONAL ENGINEER

May 9 2025
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2025
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 4/28/25

GENERAL NOTES

DISTRICT 4

105.06 AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

107.00 COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

201.00 TREE REMOVAL RESTRICTIONS

DUE TO THE POTENTIAL PRESENCE OF ENDANGERED BATS, NO TREE REMOVAL WILL BE ALLOWED ON THIS PROJECT BETWEEN APRIL 1 AND SEPTEMBER 30.

204.00 ENVIRONMENTAL REVIEWS

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

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

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

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

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

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

406.03 PAVEMENT STATION NUMBERS & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQURED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY $\frac{3}{4}$ INCH (20 MM) WIDE, 5 INCHES (125 MM) HIGH AND $\frac{5}{8}$ INCH (15 MM) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

- INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)
- BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING
- LOCATION:
  - 2, 3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
  - MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
  - RAMPS - ALONG BASELINE EDGE OF PAVEMENT
- POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
- FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+X00)", WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY ITEMS.

INDEX OF SHEETS

1	COVER SHEET
2-3	GENERAL NOTES
4	STATUS OF UTILITIES AND MIX DESIGN
5-15	SUMMARY OF QUANTITIES
16-24	SCHEDULE OF QUANTITIES
25-27	TYPICAL SECTIONS
28	ALIGNMENTS AND TIES
29	REMOVAL PLAN
30-31	ROADWAY PLAN AND PROFILE - I-74
32	DRAINAGE PLAN AND PROFILE - IL 17
33	GUARDRAIL PLAN
34	R.O.W. PLAN
35-36	EROSION CONTROL PLAN
37-46	TRAFFIC CONTROL PLAN
47-48	CROSSOVER PLAN AND PROFILE
49	PAVEMENT MARKING PLAN
50-52	GROUND IMPROVEMENT PLAN
53-55	DETAILS
56-64	ELECTRICAL PLAN
65-98	STRUCTURE PLANS
99-108	RECORD PLANS - EXISTING STRUCTURES
109-121	CROSS SECTIONS
122-127B	DISTRICT STANDARDS

406.05 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.08 LB/SF
FOG COAT (BETWEEN LIFTS)	0.08 LB/SF

406.18 BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

503.00 CROSSING EXISTING STRUCTURES WITH EQUIPMENT

THE FOLLOWING STRUCTURES, SN 072-0074(40 TONNAGE), SN 072-0075(40 TONNAGE), MAY BE CROSSED WITH AN EMPTY MTD OR WITH THE MAXIMUM TONNAGE LISTED.

ANY STRUCTURES NOT LISTED ABOVE SHALL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.

542.00 ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

780.00 GROOVING FOR RECESSED PAVEMENT MARKINGS

GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE OMITTED FROM ALL BRIDGE DECKS AND APPROACH PAVEMENTS.

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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	2
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES (CONTINUED)

PROJECT SPECIFIC

RAISED REFLECTIVE PAVEMENT MARKERS

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE OMITTED FROM ALL BRIDGE DECKS AND APPROACH PAVEMENTS.

LIME SOIL MODIFICATION

LIME SOIL MODIFICATION SHALL BE USED AT THE NOTH ABUTMENT EMBANKMENTS FOR BOTH EASTBOUND AND WESTBOUND STAGES TO ACCELERATE PLACEMENT OF EMBANKMENT, IN ORDER TO DRIVE PROPOSED PILING WITHIN THE AMEREN POWER SHUTDOWN WINDOW. LIME SOIL MODIFICATION SHALL BE CONSTRUCTED ACCORDING TO SECTION 302 OF THE STANDARD SPECIFICATIONS, EXCEPT COSTS TO ACCELERATE EMBANKMENT CONSTRUCTION SHALL BE INCLUDED IN THE PAY ITEMS FOR EARTHWORK.

EMBANKMENT SETTLEMENT AND COMPLETION - NORTH ABUTMENTS

AT THE NORTH ABUTMENTS IN BOTH STAGE 1 AND STAGE 2, EMBANKMENT OPERATIONS SHALL BE COMPLETED NO LATER THAN JUNE 15, UNLESS OTHERWISE APPROVED BY THE ENGINEER. DUE TO EXISTING SOILS AND PROPOSED FILL HEIGHT, 95% PRIMARY SETTLEMENT, EQUAL TO 4.9 INCHES, MUST BE ACHIEVED PRIOR TO DRIVING PILES FOR THE ABUTMENTS. ALL ACCELERATION IN ORDER TO COMPLETE EMBANKMENT OPERATIONS AND SETTLEMENT BY THE REQUIRED DATE SHALL BE INCLUDED IN THE PAY ITEMS FOR EARTHWORK AND THE VARIOUS ITEMS IN THE GROUND IMPROVEMENT PLANS.

AMEREN UTILITY COORDINATION - AERIAL ELECTRICAL CABLE

THE CONTRACTOR SHALL NOTIFY AMEREN AT LEAST THREE MONTHS PRIOR TO ANY PROPOSED WORK NEAR THE AMEREN AERIAL ELECTRICAL UTILITY. SYSTEM CONSTRAINT LIMITS TIME FRAMES WHEN WORK CAN BE DONE. NO SYSTEM OUTAGES CAN BE PERFORMED FROM JUNE 1 THROUGH SEPTEMBER 1, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN COORDINATION WITH AMEREN.

AMEREN UTILITY LOCATING - UNDERGROUND GAS MAIN

THE CONTRACTOR SHALL NOTIFY AMEREN AT LEAST THREE MONTHS PRIOR TO ANY PROPOSED WORK NEAR THE AMEREN UNDERGROUND GAS MAIN UTILITY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE THE GAS MAIN BY SOFT DIGGING IN THE PRESENCE OF THE ENGINEER AND A REPRESENTATIVE OF AMEREN. AN ESTIMATED QUANTITY HAS BEEN PROVIDED USING THE PAY ITEM EXPLORATION TRENCH, SPECIAL, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS TO PROPERLY LOCATE THE UNDERGROUND GAS MAIN. FURTHER DETAIL IS GIVEN IN THE CONTRACT SPECIAL PROVISIONS.

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STATUS OF UTILITIES

68510 STATUS OF UTILITIES

ROUTE	LOCATION(S)	MIN DEPTH	COMPANY	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
IL 17	NORTH OF IL 17, RUNNING PARALLEL TO IL 17	24"	WOODHULL TELEPHONE CO.	FIBER OPTIC (2)	EQUIPMENT/ PILE DRIVING BRIDGE CONSTRUCTION	UTILITY TO RELOCATE
IL 17	SOUTH OF IL 17, RUNNING PARALLEL TO IL 17	24"	WOODHULL TELEPHONE CO.	FIBER OPTIC	EQUIPMENT/ UNDER SLOPECALL CONSTRUCTION	TBD
IL 17	NORTH OF IL 17, RUNNING PARALLEL TO IL 17	36"	WOODHULL WATER	WATER MAIN	EQUIPMENT/ PILE DRIVING BRIDGE CONSTRUCTION	UTILITY TO RELOCATE
IL 17	APPROX. 56' FEET NORTH OF IL 17, RUNNING PARALLEL TO IL 17	54"	MEDIACOM	FIBER OPTIC	EQUIPMENT/ UNDER PROPOSED RCP CULVERT	UTILITY TO RELOCATE
IL 17	NORTH OF IL 17, RUNNING PARALLEL TO IL 17	30"	AMEREN	GAS MAIN	EQUIPMENT/ UNDER PROPOSED RCP CULVERT	LOCATE VIA EXPLORATION TRENCH, SPECIAL
IL 17	APPROX 100' NORTH OF IL 17, WITHIN R.O.W. RUNNING PARALLEL TO IL 17	AERIAL	AMEREN	ELECTRICAL	EQUIPMENT/ PILE DRIVING BRIDGE CONSTRUCTION	UTILITY TO TEMPORARILY RELOCATE LOWER LINES; DE-ENERGIZE UPPER LINES WITHIN ACCEPTABLE WINDOW MUST COORDINATE W/ UTILITY
IL 17	SOUTH OF IL 17, RUNNING PARALLEL TO IL 17, EAST OF GRADING LIMIT	UNKNOWN	BLUEBIRD NETWORK	FIBER OPTIC	NONE ANTICIPATED	N/A
I-74	EAST OF I-74, RUNNING PARALLEL TO I-74, NEAR/OUTSIDE TOE OF SLOPE	UNKNOWN	CMS	FIBER OPTIC	NONE ANTICIPATED	N/A
IL 17	SOUTH OF IL 17, RUNNING PARALLEL TO IL 17	UNKNOWN	IDOT	LIGHTING	EQUIPMENT/ UNDER SLOPECALL CONSTRUCTION	SEE ELECTRICAL PLANS
I-74 & IL 17	WEST OF I-74, RUNNING PARALLEL TO I-74, THEN TURNING AND RUNNING TO THE WEST ALONG IL 17, SOUTH OF IL 17	UNKNOWN	IDOT	LIGHTING	NEAR GRADING LIMIT	N/A

MIX DESIGN

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICALE FOR THIS PROJECT:

68510 MIX DESIGN

LOCATION(S)	MAINLINE I-74 & SHOULDERS	MAINLINE I-74 & SHOULDERS	MAINLINE I-74 & SHOULDERS RECONSTRUCT	CROSSOVERS & TEMP PAVT	CROSSOVERS & TEMP PAVT
MIXTURE USE(S):	POLYMER HMA SURFACE, 2"	POLYMER HMA BINDER, 2.25"	HMA BASE COURSE, 11"	POLYMER SURFACE, 2"	POLYMER LOWER LIFTS
AC/PG:	SBS OR SBR 70-28	SBS OR SBR 70-28	PG 58-28	SBS OR SBR 70-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N = 70	4.0% @ N = 70	4.0% @ N = 50	4.0% @ N = 70	4.0% @ N = 50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-9.5	IL-19.0	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIX E	N/A	N/A	MIX D	N/A
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA
MTD:	YES	YES	YES	YES	YES

NOTE: 1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER

2) FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LB/SY-IN, UNLESS OTHERWISE NOTED.

3) SUBLOT SIZES FOR QCP MIXES WILL BE 600 TONS, UNLESS OTHERWISE AGREED TO BY THE ENGINEER AND PAVING CONTRACTOR.

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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATUS OF UTILIES AND MIX DESIGN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	4
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE			
				90/10	90/10	90/10	90/10
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE	SAFETY
				0004	0010	0010	0021
				RURAL	EB SN 037-0049	WB SN 037-0053	RURAL
20100500	TREE REMOVAL, ACRES	ACRE	0.31	0.31			
20200100	EARTH EXCAVATION	CU YD	1991	1991			
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	124	124			
20400800	FURNISHED EXCAVATION	CU YD	19337	19337			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	15072	15072			
25000300	SEEDING, CLASS 3	ACRE	3.18	3.18			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	287	287			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	287	287			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	287	287			
25000750	MOWING	ACRE	12.74	12.74			
25100115	MULCH, METHOD 2	ACRE	3.18	3.18			
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	15420	15420			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	318	318			
28000305	TEMPORARY DITCH CHECKS	FOOT	940	940			

* = SPECIALTY ITEM

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VEENSTRA & KIMM INC.

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	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	5
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

REV. 4/28/25

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
28000400	PERIMETER EROSION BARRIER	FOOT	2433	2433			
28000500	INLET AND PIPE PROTECTION	EACH	2	2			
28100107	STONE RIPRAP, CLASS A4	SQ YD	259	259			
28200200	FILTER FABRIC	SQ YD	404	404			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	9360	9360			
35501328	HOT-MIX ASPHALT BASE COURSE, 11"	SQ YD	1039	1039			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	17801	17801			
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	23990	23990			
40600405	MATERIAL TRANSFER DEVICE	TON	5673	5673			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	212	212			
40603208	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	689	689			
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	947	947			
42000060	WELDED WIRE REINFORCEMENT	SQ YD	453	453			
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	453	453			

* = SPECIALTY ITEM

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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 2 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	6
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
44000100	PAVEMENT REMOVAL	SQ YD	527	527			
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	1624	1624			
44004250	PAVED SHOULDER REMOVAL	SQ YD	1882	1882			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	97	97			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1	
50157300	PROTECTIVE SHIELD	SQ YD	713		330	383	
50200100	STRUCTURE EXCAVATION	CU YD	1036.2		490.4	545.8	
50300225	CONCRETE STRUCTURES	CU YD	223.1		104.4	118.7	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	682		324	358	
50300300	PROTECTIVE COAT	SQ YD	2642		1241	1401	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	277.3		130.3	147	
50401350	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL72	FOOT	2299		1073	1226	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	271500		126630	144870	

* = SPECIALTY ITEM

MODEL: Default
FILE NAME: \\vkdfs-fs\Projects\0500\0523-IL_DOT_District_4\0523-0008-0004_PTB205_I027_W04_FAI74_over_IL17_Prj2_PS_E\CADD_Bentley_ORD_Sheets\General\68510-sht-SOQ.dgn

VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 3 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	7
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
51100100	SLOPE WALL 4 INCH	SQ YD	1574		787	787	
51200963	FURNISHING METAL SHELL PILES 16" X 0.375"	FOOT	2111		1215	896	
51202305	DRIVING PILES	FOOT	2111		1215	896	
51203200	TEST PILE METAL SHELLS	EACH	4		2	2	
51204650	PILE SHOES	EACH	36		20	16	
51500100	NAME PLATES	EACH	2		1	1	
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	288	288			
5421D018	PIPE CULVERTS, CLASS D, TYPE 1 18" (TEMPORARY)	FOOT	586	586			
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2			
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1	1			
54245005	INLET BOX, STANDARD 542521	EACH	1	1			
54260718	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 18", 1:6	EACH	4	4			
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	782		372	410	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	334		159	175	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 4 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	8
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 0021 RURAL
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4		2	2	
	60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	83	83			
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	392		190	202	
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1725	1725			
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1			
*	63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2			
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2			
	63200310	GUARDRAIL REMOVAL	FOOT	2233	2233			
	63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	7588		3794	3794	
	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	15387	15387			
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4			
*	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2		1	1	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 5 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	9
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

REV. 4/28/25

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	28		14	14	
	67000600	ENGINEER'S FIELD LABORATORY	CAL MO	28		14	14	
	67100100	MOBILIZATION	L SUM	1		0.5	0.5	
	70100410	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416	EACH	2	2			
	70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2			
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1			
	70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1			
	70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1			
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	270	270			
	70106700	TEMPORARY RUMBLE STRIPS	EACH	12		6	6	
	70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	2370		1185	1185	
	70107009	PAVEMENT MARKING BLACKOUT TAPE, 9"	FOOT	914		457	457	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 6 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	10
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

REV. 4/28/25

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90/10	90/10	90/10	90/10
				ROADWAY	BRIDGE	BRIDGE	SAFETY
				0004	0010	0010	0021
				RURAL	EB SN 037-0049	WB SN 037-0053	RURAL
70107012	PAVEMENT MARKING BLACKOUT TAPE, 12"	FOOT	33		16.5	16.5	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56		28	28	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	28129		14064.5	14064.5	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	3018		1509	1509	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	291		145.5	145.5	
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	47290		23645	23645	
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	2621		1310.5	1310.5	
70307160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE IV TAPE	FOOT	637		318.5	318.5	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	7275		3637.5	3637.5	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	33		16.5	16.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4038		2019	2019	
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	75	75			
70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1	1			
70500672	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 7 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	11
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3		1	2	
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		2	2	
*	72400210	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1		1		
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3			
	73000100	WOOD SIGN SUPPORT	FOOT	17		17		
*	78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	18204		9102	9102	
*	78004640	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 8"	FOOT	681		340.5	340.5	
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	18204		9102	9102	
*	78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	681		340.5	340.5	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	27		14	13	
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	36	36			
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	25		13	12	
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	9976		4988	4988	
	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2				2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 8 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	12
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

REV. 4/28/25

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
X0325833	WICK DRAINS	FOOT	19656		9828	9828	
X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	325		163	162	
X2600002	RECOVERABLE DELINEATORS	EACH	6		3	3	
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	6687	6687			
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	SQ YD	224	224			
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	4435	4435			
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2609		1216	1393	
X5080530	BAR TERMINATORS	EACH	1052		484	568	
X5510010	STORM SEWER CONNECTION	EACH	1	1			
X6010001	CONNECTION OF EXISTING PIPE UNDERDRAIN	EACH	2	2			
X6015015	REMOVE AND REPLACE CONCRETE HEADWALLS FOR PIPE UNDERDRAINS	EACH	2	2			
X6050702	MEDIAN INLET BOX REMOVAL	EACH	2	2			
X6350120	DELINEATOR REMOVAL	EACH	6		3	3	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 9 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	13
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90/10 ROADWAY 0004 RURAL	90/10 BRIDGE 0010 EB SN 037-0049	90/10 BRIDGE 0010 WB SN 037-0053	90/10 SAFETY 0021 RURAL
X7040305	TEMPORARY CONCRETE BARRIER, TERMINAL SECTION (SPECIAL)	EACH	1		0.5	0.5	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	138		69	69	
X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	138		69	69	
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1				1
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	389	389			
Z0004552	APPROACH SLAB REMOVAL	SQ YD	410	410			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2497		1160	1337	
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	83	83			
Z0056100	SAND DRAINAGE BLANKET	CU YD	937		468.5	468.5	
Z0062456	TEMPORARY PAVEMENT	SQ YD	7787	7787			
Z0065100	SETTLEMENT PLATFORMS	EACH	2		1	1	
Z0065765	SLOTTED DRAIN 18" WITH VARIABLE SLOT	FOOT	401	401			

* = SPECIALTY ITEM

					CONSTRUCTION CODE			
					90/10	90/10	90/10	90/10
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE	SAFETY
					0004	0010	0010	0021
					RURAL	EB SN 037-0049	WB SN 037-0053	RURAL
	Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	2	2			
Ø	Z0076600	TRAINEES	HOUR	2,000	2,000			
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	2,000	2,000			

EARTHWORK TABLE

LOCATION					TOPSOIL FURNISH AND PLACE, 4"	EARTH EXCAVATION	FURNISHED EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	INFORMATION ONLY: EARTH EXCAVATION ADJUST FOR SHRINKAGE (75%)	INFORMATION ONLY: EMBANKMENT	INFORMATION ONLY: EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	INFORMATION ONLY: PROPOSED TOPSOIL REQUIRED	INFORMATION ONLY: TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-)
					SQ YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
CROSSOVERS													
NORTH	STA.	23+66.2	TO	30+09.9	0.0	639.7	1113.8	0.0	479.8	1593.6	-1113.8	0.0	473.5
SOUTH	STA.	31+74.3	TO	41+11.9	0.0	688.7	790.9	0.0	516.5	1307.4	-790.9	0.0	457.6
N-REM	STA.	23+66.2	TO	30+09.9	4261.5	0.0	0.0	0.0	0.0	0.0	0.0	473.5	-473.5
S-REM	STA.	31+74.3	TO	41+11.9	4118.7	0.0	0.0	0.0	0.0	0.0	0.0	457.6	-457.6
CROSSOVER - SUBTOTAL					8380.2	1328.4	1904.6	0.0					0.0
I-74 EB													
		N LIMIT	TO	IL 17	1871.1	108.4	5961.7	8.3	81.3	6043.0	-5961.7	207.9	8.3
		IL 17	TO	S LIMIT	495.0	169.0	59.9	13.4	126.8	186.7	-59.9	55.0	13.4
I-74 WB													
		N LIMIT	TO	IL 17	2684.7	101.1	6802.6	19.7	75.8	6878.4	-6802.6	298.3	19.7
		IL 17	TO	S LIMIT	463.5	219.0	-25.0	4.2	164.3	139.3	25.0	51.5	4.2
IL 17 & BRIDGE CONES													
		N OF IL 17			748.8	13.1	4253.4	73.0	9.8	4263.2	-4253.4	83.2	73.0
		S OF IL 17			428.4	52.0	379.7	5.2	39.0	418.7	-379.7	47.6	5.2
SUBTOTAL					*15071.7*	*1991.0*	*19336.9*	*123.8*					
TOTAL					**15072**	**1991**	**19337**	**124**					

EROSION CONTROL TABLE

LOCATION		AREA	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
		SQ FT	ACRE	POUND	FOOT	FOOT	EACH
NORTH OF BRIDGE							
	WB OUTSIDE	23018.4	0.53	53.0	20.0	492.1	1.0
	MEDIAN	8780.6	0.20	20.0	70.0	507.8	
	EB OUTSIDE	16066.6	0.37	37.0	30.0	524.6	1
SOUTH OF BRIDGE							
	WB OUTSIDE	4015.8	0.09	9.0	20.0	310.3	
	MEDIAN & NORTH CROSSOVER	33304.9	0.76	76.0	330.0	52.1	
	SOUTH CROSSOVER	49127.4	1.13	113.0	460.0	105.2	
	EB OUTSIDE	4458.6	0.10	10.0	10.0	441.2	
SUBTOTAL			*3.18*	*318.0*	*940.0*	*2433.3*	*2.0*
TOTAL			**3.18**	**318**	**940**	**2433**	**2**

RUMBLE STRIPS TABLE

LOCATION					SHOULDER RUMBLE STRIPS, 16 INCH
					FOOT
WESTBOUND					
INSIDE SHOULDER					
	STA.	-1+84.1	TO	-0+84.1	100.0
	STA.	8+57.5	TO	21+46.9	1289.4
	STA.	24+03.2	TO	51+83.0	2779.8
OUTSIDE SHOULDER					
	STA.	4+95.8	TO	21+46.9	1651.2
	STA.	28+24.8	TO	38+76.5	1051.7
	STA.	44+97.6	TO	56+33.9	1136.3
EASTBOUND					
INSIDE SHOULDER					
	STA.	-8+12.1	TO	-0+87.5	724.8
	STA.	8+49.6	TO	21+24.2	1274.6
	STA.	23+79.1	TO	42+11.9	1832.7
OUTSIDE SHOULDER					
	STA.	-3+81.5	TO	21+24.2	2505.8
	STA.	26+91.9	TO	37+32.0	1040.1
SUBTOTAL					*15386.4*
TOTAL					**15387**

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VEENSTRA & KIMM INC.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 1 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	16
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING TABLE

LOCATION					PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -LINE 6"				GROOVING FOR RECESSED PAVEMENT MARKING 7"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -LINE 8"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RECOVERABLE DELINEATORS	DELINEATOR REMOVAL
					WHITE SOLID	YELLOW SOLID	WHITE SKIP	WHITE MINI-SKIP		WHITE GORE					
					FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH
WESTBOUND															
		WEST LIMIT	TO	-3+50.0											
	STA.	-3+50.0	TO	11+50.0	654.2	1334.1			1988.3						
	STA.	11+50.0	TO	26+50.0	1449.8	1500.0	200.0	183.8	3333.6	266.7	266.7	10.0	9.0		
	STA.	26+50.0	TO	41+50.0	1050.8	1500.0			2550.8	174.8	174.8			2.0	2.0
	STA.	41+50.0	TO	EAST LIMIT	1187.5	1033.0		64.8	2285.3						
EASTBOUND															
		WEST LIMIT	TO	-3+50.0	31.5	462.2			493.7						
	STA.	-3+50.0	TO	11+50.0	1500.0	1500.0			3000.0						
	STA.	11+50.0	TO	26+50.0	148.2	1500.0	200.0	93.9	1942.1	196.8	196.8	17.0	16.0		
	STA.	26+50.0	TO	41+50.0	1048.3	1500.0			2548.3	41.9	41.9			4.0	4.0
	STA.	41+50.0	TO	EAST LIMIT		61.9			61.9						
SUBTOTAL					*7070.3*	*10391.2*	*400.0*	*342.5*	*18204.0*	*680.2*	*680.2*	*27.0*	*25.0*	*6.0*	*6.0*
TOTAL					**18204**				**18204**	**681**	**681**	**27**	**25**	**6**	**6**

CROSSOVER & TEMPORARY PAVEMENT TABLE

LOCATION					AREA	PAVED SHOULDER REMOVAL	AGGREGATE SUBGRADE IMPROVEMENT, 12"	TEMPORARY PAVEMENT	MATERIAL TRANSFER DEVICE	TEMPORARY PAVEMENT REMOVAL	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	POLY HMA SURFACE COURSE, IL-9.5, MIX "E", N70 (3")
					SQ FT	SQ YD	SQ YD	SQ YD	TON	SQ YD	POUND	POUND	SQ YD	TON
WEST (NORTH) CROSSOVER														
	STA.	23+66.2	TO	30+09.9	28064.1	568.1	3118.2	3118.2	1484.3	3118.2	6735.4	7016.0		
EAST (SOUTH) CROSSOVER														
	STA.	31+74.3	TO	41+11.9	35376.7	792.1	3930.7	3930.7	1871.0	3138.6	8490.4	8844.2		
CROSSOVER SLOPE ADJUSTMENT SHOULDER ADJACENT TO CROSSOVER														
WB	STA.	30+09.9	TO	31+74.3	666.1						53.3		74.0	12.4
EB	STA.	30+09.9	TO	31+74.3	611.7						48.9		68.0	11.4
WB	STA.	41+11.9	TO	42+11.9	336.2						26.9		37.4	6.3
EB	STA.	41+11.9	TO	42+11.9	366.2						29.3		40.7	6.8
TEMPORARY PAVEMENT - STAGE 1														
	STA.	2027+91.9	TO	2029+96.2	2776.3	187.2	308.5	308.5	146.8	121.3	666.3	694.1		
TEMPORARY PAVEMENT - STAGE 2														
	STA.	1027+60.5	TO	1029+88.9	3865.6	121.0	429.5	429.5	204.4	308.5	927.7	966.4		
SUBTOTAL						*1668.4*	*7786.9*	*7786.9*	*3706.5*	*6686.6*	*16978.2*	*17520.7*	*220.1*	*36.9*
TOTAL						**SEE REMOVALS**	**SEE PAVT**	**7787**	**SEE PAVT**	**6687**	**SEE PAVT**	**SEE PAVT**	**SEE REMOV**	**SEE PAVT**

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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 2 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	17
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

PAVEMENT TABLE

LOCATION						AREA	POLY HMA SURFACE COURSE, IL-9.5, MIX "E", N70 (2")	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	POLY HMA BINDER COURSE, IL-9.5, N70 (2.25")	HMA BASE COURSE, 11"	MATERIAL TRANSFER DEVICE	AGGREGATE SUBGRADE IMPROVEMENT, 12"	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	WELDED WIRE REINFORCEMENT
						SQ FT	TON	SQ YD	TON	SQ YD	TON	SQ YD	POUND	POUND	SQ YD	SQ YD
EASTBOUND																
INSIDE SHLD	RESURFACE	STA.	1018+00.0	TO	1020+40.0	941.4	11.7	13.3	13.2		24.9		122.4			
INSIDE SHLD	RECONSTRUCT	STA.	1020+40.0	TO	1021+24.2	450.1	5.6	4.7	6.3	50.0	42.7	59.4	23.7	14.8		
OUTSIDE SHLD	RESURFACE	STA.	1018+00.0	TO	1020+40.0	2358.1	29.3	13.3	33.0		62.4		306.6			
OUTSIDE SHLD	RECONSTRUCT	STA.	1020+40.0	TO	1021+24.2	1054.8	13.1	4.7	14.8	117.2	100.1	126.6	50.6	31.6		
PAVEMENT	RESURFACE	STA.	1018+00.0	TO	1020+40.0	5760.0	71.7	13.3	80.6		152.3		748.8			
PAVEMENT	RECONSTRUCT	STA.	1020+40.0	TO	1021+24.2	2020.8	25.1	4.7	28.3	224.5	191.8	233.9	93.6	58.5		
CONNECTOR	CONNECTOR	STA.	1021+24.2	TO	1021+45.6	937.3						104.1			104.1	104.1
CONNECTOR	CONNECTOR	STA.	1023+59.8	TO	1023+79.1	945.9						105.1			105.1	105.1
PAVEMENT	RECONSTRUCT	STA.	1023+79.1	TO	1024+00.0	500.7	6.2	1.2	7.0	55.6	47.5	58.0	23.2	14.5		
PAVEMENT	RESURFACE	STA.	1024+00.0	TO	1026+00.0	4800.0	59.7	11.1	67.2		126.9		624.0			
RAMP LANE	RECONSTRUCT	STA.	1023+79.1	TO	1024+00.0	187.3	2.3	1.2	2.6	20.8	17.8	23.1	9.3	5.8		
RAMP LANE	RESURFACE	STA.	1024+00.0	TO	1026+00.0	3377.1	42.0	11.1	47.3		89.3		439.0			
INSIDE SHLD	RECONSTRUCT	STA.	1023+79.1	TO	1024+00.0	110.5	1.4	1.2	1.5	12.3	10.5	14.6	5.8	3.6		
INSIDE SHLD	RESURFACE	STA.	1024+00.0	TO	1026+00.0	824.9	10.3	11.1	11.5		21.8		107.2			
OUTSIDE SHLD	RECONSTRUCT	STA.	1023+79.1	TO	1024+00.0	164.0	2.0	1.2	2.3	18.2	15.6	20.5	8.2	5.1		
OUTSIDE SHLD	RESURFACE	STA.	1024+00.0	TO	1025+97.4	1565.9	19.5	11.0	21.9		41.4		203.6			
ADDITIONAL FOR LONGITUDINAL JOINT TRIMMING							11.5				11.5		98.8			
WESTBOUND																
INSIDE SHLD	RESURFACE	STA.	2018+00.0	TO	2020+80.0	1176.2	14.6	15.6	16.5		31.1		152.9			
INSIDE SHLD	RECONSTRUCT	STA.	2020+80.0	TO	2021+46.9	389.2	4.8	3.7	5.4	43.2	36.9	50.7	20.3	12.7		
OUTSIDE SHLD	RESURFACE	STA.	2018+00.0	TO	2020+80.0	2403.6	29.9	15.6	33.7		63.6		312.5			
OUTSIDE SHLD	RECONSTRUCT	STA.	2020+80.0	TO	2021+46.9	707.4	8.8	3.7	9.9	78.6	67.1	86.0	34.4	21.5		
PAVEMENT	RESURFACE	STA.	2018+00.0	TO	2020+80.0	6720.0	83.6	15.6	94.1		177.7		873.6			
PAVEMENT	RECONSTRUCT	STA.	2020+80.0	TO	2021+46.9	1605.0	20.0	3.7	22.5	178.3	152.3	185.8	74.3	46.4		
RAMP LANE	RESURFACE	STA.	2018+00.0	TO	2020+80.0	1378.6	17.2	15.6	19.3		36.5		179.2			
RAMP LANE	RECONSTRUCT	STA.	2020+80.0	TO	2021+46.9	545.1	6.8	3.7	7.6	60.6	51.7	68.0	27.2	17.0		
CONNECTOR	CONNECTOR	STA.	2021+46.9	TO	2021+66.2	1096.1						121.8			121.8	121.8
CONNECTOR	CONNECTOR	STA.	2023+80.4	TO	2024+03.2	1096.1						121.8			121.8	121.8
PAVEMENT	RECONSTRUCT	STA.	2024+03.2	TO	2024+35.0	762.9	9.5	1.8	10.7	84.8	72.4	88.3	35.3	22.1		
PAVEMENT	RESURFACE	STA.	2024+35.0	TO	2026+00.0	3960.0	49.3	9.2	55.4		104.7		514.8			
RAMP LANE	RECONSTRUCT	STA.	2024+03.2	TO	2024+35.0	455.8	5.7	1.8	6.4	50.6	43.3	54.2	21.7	13.5		
RAMP LANE	RESURFACE	STA.	2024+35.0	TO	2026+00.0	2656.4	33.1	9.2	37.2		70.2		345.3			
INSIDE SHLD	RECONSTRUCT	STA.	2024+03.2	TO	2024+35.0	168.0	2.1	1.8	2.4	18.7	15.9	22.2	8.9	5.5		
INSIDE SHLD	RESURFACE	STA.	2024+35.0	TO	2026+00.0	660.1	8.2	9.2	9.2		17.5		85.8			
OUTSIDE SHLD	RECONSTRUCT	STA.	2024+03.2	TO	2024+35.0	231.3	2.9	1.8	3.2	25.7	21.9	29.2	11.7	7.3		
OUTSIDE SHLD	RESURFACE	STA.	2024+35.0	TO	2025+99.6	1262.7	15.7	9.1	17.7		33.4		164.2			
ADDITIONAL FOR LONGITUDINAL JOINT TRIMMING							13.5				13.5		116.0			
SUBTOTAL ABOVE						*53273.3*	*637.3*	*223.8*	*688.8*	*1039.2*	*1966.2*	*1573.2*	*5842.8*	*280.1*	*452.8*	*452.8*
FROM STAGING TABLE							*272.9*						*1168.9*			
FROM CROSSOVER TABLE							*36.9*				*3706.5*	*7786.9*	*16978.2*	*17520.7*		
SUBTOTAL							*947.1*	*223.8*	*688.8*	*1039.2*	*5672.7*	*9360.1*	*23990.0*	*17800.8*	*452.8*	*452.8*
TOTAL							**947**	**224**	**689**	**1039**	**5673**	**9360**	**23990**	**17801**	**453**	**453**

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VEENSTRA & KIMM INC.

DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 3 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	18
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

GUARDRAIL TABLE

LOCATION					LENGTH OF NEED STATION		GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 2	SPBGR TYPE A 6 FT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL AGGREGATE EROSION CONTROL
					ALIGNMENT	STA.	FOOT	EACH	EACH	FOOT		EACH	EACH	EACH	TON
WESTBOUND															
LT	STA.	17+76.0	TO	21+75.8	I-74	EX SPBGR	346.7			400.0			6		69.2
	STA.	21+75.8	TO	21+89.0		PARAPET					1				
LT	STA.	23+73.0	TO	24+09.9	I-74	PARAPET	241.0					1	4		40.3
	STA.	24+09.9	TO	26+22.1		EX SPBGR				212.5					
RT	STA.	23+61.1	TO	23+98.0	I-74	PARAPET	382.2					1	4		59.4
	STA.	23+98.0	TO	26+22.9						225.0					
	STA.	26+22.9	TO	26+72.9		26+48.3		1						1	
EASTBOUND															
LT	STA.	18+28.1	TO	18+78.1	I-74	18+53.9	414.8	1					8	1	63.8
	STA.	18+78.1	TO	21+28.1						250.0					
	STA.	21+28.1	TO	24+65.0		PARAPET						1			
RT	STA.	17+80.6	TO	21+17.5	I-74	EX SPBGR	290.0			337.5			5		63.1
	STA.	21+17.5	TO	21+54.4		PARAPET						1			
RT	STA.	23+38.4	TO	23+51.7	I-74	PARAPET	175.4				1		5		58.8
	STA.	23+51.7	TO	26+50.7						300.0					
	STA.	26+50.7	TO	26+63.1		26+22.8			1						
IL 17															
LT	STA.	51+89.8	TO	54+38.5	IL 17		248.8								
RT	STA.	51+65.6	TO	52+35.1	IL 17		69.6								
RT	STA.	52+74.6	TO	53+39.0	IL 17		64.5								
SUBTOTAL							*2233.0*	*2*	*1*	*1725.0*	*2*	*4*	*32*	*2*	*354.6*
TEMPORARY GUARDRAIL TABLE SUBTOTAL													*4*	*1*	*34.8*
TOTAL							**2233**	**2**	**1**	**1725**	**2**	**4**	**36**	**3**	**389**

TEMPORARY GUARDRAIL TABLE

LOCATION					LENGTH OF NEED STATION		TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6B	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL AGGREGATE EROSION CONTROL
					ALIGNMENT	STA.	EACH	FOOT	EACH	EACH	EACH	TON
STAGE 1 - WESTBOUND												
		NONE										
STAGE 2 - WESTBOUND												
RT	STA.	2020+24.2	TO	2020+65.2	I-74	2020+38.1	1.0				1.0	34.8
	STA.	2020+65.2	TO	2021+40.2				75.0		4.0		
	STA.	2021+40.2	TO	2021+77.1		PARAPET			1.0			(TO REMAIN)
SUBTOTAL							*1.0*	*75.0*	*1.0*	*4.0*	*1.0*	*34.8*
TOTAL							**1**	**75**	**1**	**SEE GUARDRAIL TABLE**		

NOTE: TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT AND TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1 ARE ASSUMED TO BE 50 FT IN LENGTH WITH 37.5 FT ALLOTTED TOWARDS THE LENGTH OF NEED. THE CONTRACTOR SHALL ADJUST ACCORDINGLY IF THE LENGTH OF NEED DIFFERS PER MANUFACTURER SPECIFICATIONS.

AGGREGATE SHOULDER TABLE

LOCATION					AREA	AGGREGATE SHOULDERS, TYPE B
					SQ FT	TON
I-74						
WB INSIDE SHOULDER						
	STA.	2018+00.0	TO	2019+81.2	725.0	32.4
EB INSIDE SHOULDER						
	STA.	1023+48.9	TO	1026+00.0	1005.0	44.9
IL 17						
WB	STA.	51+32.0	TO	52+16.6	168.7	7.5
WB	STA.	53+75.6	TO	54+40.1	129.6	5.8
EB	STA.	51+96.8	TO	52+30.8	58.8	2.6
EB	STA.	53+89.8	TO	54+27.5	76.0	3.4
SUBTOTAL						*96.6*
TOTAL						**97**

STAGING TABLE

LOCATION	AREA	TEMPORARY CONCRETE BARRIER	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	TEMPORARY CONCRETE BARRIER, TERMINAL SECTION (SPECIAL)	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	TEMPORARY RUMBLE STRIPS	RUMBLE STRIP PATCHING		
										HOT-MIX ASPHALT SURFACE REMOVAL, 3"	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70
	SQ FT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	SQ YD	POUND	TON
WINTER SHUTDOWN 1												
CROSS-OVERS												
STA. 23+84.8 TO 28+13.9		475.0										
STA. 34+91.7 TO 37+94.5		312.5										
I-74 STAGE 1												
BARRIER												
WB ENTRANCE RAMP		262.5			33.0	1.0	1.0					
STA. 1+31.5 TO 39+19.9		3012.5	3800.0	787.5								
WESTBOUND												
STA. -1+84.1 TO -0+84.1	133.3									14.8	10.7	2.5
STA. 42+11.9 TO 51+83.0	1294.9									143.9	103.6	24.2
ADVANCE OF CLOSURE									3.0			
EASTBOUND												
ADVANCE OF CLOSURE									3.0			
STA. -3+81.5 TO 20+72.6	3272.2									363.6	261.8	61.1
STA. 8+49.6 TO 20+82.6	1643.9									182.7	131.5	30.7
STA. 26+91.9 TO 37+32.0	1386.9									154.1	111.0	25.9
WINTER SHUTDOWN 2												
CROSS-OVERS												
STA. 2+34.8 TO 5+37.6				312.5								
STA. 23+84.8 TO 28+13.9				475.0								
STA. 34+91.7 TO 37+94.5				312.5								
I-74 STAGE 2												
BARRIER												
STA. 1+16.5 TO 38+97.4		2687.5	3787.5	1100.0								
WESTBOUND												
STA. 4+95.8 TO 18+00.0	1739.0									193.2	139.1	32.5
STA. 8+57.5 TO 18+00.0	1256.7									139.6	100.5	23.5
STA. 28+22.5 TO 38+76.5	1402.3									155.8	112.2	26.2
STA. 44+97.6 TO 56+33.9	1515.0									168.3	121.2	28.3
ADVANCE OF CLOSURE									3.0			
EASTBOUND												
ADVANCE OF CLOSURE									3.0			
STA. -8+12.1 TO -0+87.5	966.4									107.4	77.3	18.0
IL 17 STAGE 1												
STA. 52+00.0 TO 54+62.5		262.5					1.0					
STA. 51+37.5 TO 54+00.0		262.5					1.0					
IL 17 WINTER SHUTDOWN												
STA. 52+00.0 TO 54+62.5				262.5				1.0				
STA. 51+37.5 TO 54+00.0				262.5				1.0				
IL 17 STAGE 2												
STA. 52+00.0 TO 54+62.5				262.5				1.0				
STA. 51+37.5 TO 54+00.0				262.5				1.0				
SUBTOTAL		*7275.0*	*7587.5*	*4037.5*	*33.0*	*1.0*	*3.0*	*4.0*	*12.0*	*1623.4*	*1168.9*	*272.9*
TOTAL		**7275**	**7588**	**4038**	**33**	**1**	**3**	**4**	**12**	**1624**	**SEE PAVT**	**SEE PAVT**

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VEENSTRA & KIMM INC.

DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 5 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	20
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

SHORT TERM PAVEMENT MARKING TABLE

LOCATION		PAVEMENT MARKING REMOVAL - WATER BLASTING	PAVEMENT MARKING BLACKOUT TAPE, 7"	PAVEMENT MARKING BLACKOUT TAPE, 9"	PAVEMENT MARKING BLACKOUT TAPE, 12"	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	SHORT TERM PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
		SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH
PRE-STAGE													
WESTBOUND													
	TC LANE SHIFT		162.5			850.0						9.0	
EASTBOUND													
	TC LANE SHIFT		162.5			850.0						9.0	
WINTER SHUTDOWN 1													
WESTBOUND													
	TC LANE SHIFT - REMOVAL										519.8		9.0
EASTBOUND													
	TC LANE SHIFT - REMOVAL										519.8		9.0
I-74 STAGE 1													
	WESTBOUND MOT	2293.6	616.3	243.0		12033.4	1207.5	398.7				31.0	
	EASTBOUND MOT	1947.7	547.4	105.6	32.8	9784.2	210.0	37.3				30.0	
WINTER SHUTDOWN 2													
	WESTBOUND MOT								2572.6	216.7	7762.2		31.0
	EASTBOUND MOT								445.0	73.6	5500.7		30.0
I-74 STAGE 2													
	WESTBOUND MOT	4659.0	458.8	564.8		11934.8	982.2	126.0				43.0	
	EASTBOUND MOT	1074.8	421.9			11837.2	221.0	74.6				16.0	
I-74 FINAL													
	WESTBOUND MOT										7439.4		43.0
	EASTBOUND MOT										6386.6		16.0
SUBTOTAL		*9975.1*	*2369.4*	*913.4*	*32.8*	*47289.6*	*2620.7*	*636.6*	*3017.6*	*290.3*	*28128.5*	*138.0*	*138.0*
TOTAL		**9976**	**2370**	**914**	**33**	**47290**	**2621**	**637**	**3018**	**291**	**28129**	**138**	**138**

SIGNING TABLE

LOCATION				DESCRIPTION	DIMENSIONS	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE B	WOOD SIGN SUPPORT	NOTES
						EACH	FOOT	
WESTBOUND								
WB ENTRANCE RAMP GORE								
	STA.	28+68.5	68' LT	W4-1 (MERGE)	48 IN X 48 IN	1.0	17.0	IN CONFLICT WITH STAGE 1 TEMPORARY PAVEMENT. REMOVE DURING STAGING AND RELOCATE TO SAME LOCATION.
SUBTOTAL						*1.0*	*17.0*	
TOTAL						**1**	**17**	

MODEL: Default
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LANDSCAPING TABLE

LOCATION		AREA	SEEDING, CLASS 3	HEAVY DUTY EROSION CONTROL BLANKET	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	STONE RIPRAP, CLASS A4	FILTER FABRIC
		SQ FT	ACRE	SQ YD	POUND	POUND	POUND	SQ YD	SQ YD
NORTH OF BRIDGE									
	WB OUTSIDE	23018.4	0.53	2557.6	47.7	47.7	47.7	48.8	74.4
	MEDIAN	8780.6	0.20	975.6	18.0	18.0	18.0	38.2	62.3
	EB OUTSIDE	16066.6	0.37	1785.2	33.3	33.3	33.3	50.6	77.1
SOUTH OF BRIDGE									
	WB OUTSIDE	4015.8	0.09	446.2	8.1	8.1	8.1	36.0	55.8
	MEDIAN & NORTH CROSSOVER	33304.9	0.76	3700.5	68.4	68.4	68.4	38.2	62.3
	SOUTH CROSSOVER	49127.4	1.13	5458.6	101.7	101.7	101.7		
	EB OUTSIDE	4458.6	0.10	495.4	9.0	9.0	9.0	47.2	72.1
SUBTOTAL			*3.18*	*15419.1*	*286.2*	*286.2*	*286.2*	*259.0*	*404.0*
TOTAL			**3.18**	**15420**	**287**	**287**	**287**	**259**	**404**

GROUND IMPROVEMENT TABLE

LOCATION					WICK DRAINS	SAND DRAINAGE BLANKET	SETTLEMENT PLATFORMS
					FOOT	CU YD	EACH
WESTBOUND							
STAGE 1							
	STA.	21+53.0	TO	22+40.4	12831.0	585.8	1.0
EASTBOUND							
STAGE 2							
	STA.	21+70.2	TO	21+98.0	6825.0	351.0	1.0
SUBTOTAL					*19656.0*	*936.8*	*2.0*
TOTAL					**19656**	**937**	**2**

REMOVAL TABLE

LOCATION					HMA SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	APPROACH SLAB REMOVAL	TREE REMOVAL, ACRES
					SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	ACRE
WESTBOUND										
FULL WIDTH	STA.	2018+00.0	TO	2018+10.0	43.4					
PAVT & SHLDRS	STA.	2018+10.0	TO	2020+80.0		1254.2				
PAVEMENT	STA.	2020+80.0	TO	APPR			61.0			
LT SHLDR	STA.	2020+80.0	TO	APPR				21.1		
RT SHLDR	STA.	2020+80.0	TO	APPR				8.9		
APPROACH	STA.	2020+96.7	TO	2021+22.7					106.7	0.17
APPROACH	STA.	2023+59.7	TO	2023+79.7					114.3	
LT SHLDR	STA.	APPR	TO	2024+35.0				36.9		
RT SHLDR	STA.	APPR	TO	2024+35.0				31.1		
PAVEMENT	STA.	APPR	TO	2024+35.0			222.8			
PAVT & SHLDRS	STA.	2024+35.0	TO	2025+90.0		889.2				
FULL WIDTH	STA.	2025+90.0	TO	2026+00.0	59.6					
EASTBOUND										
FULL WIDTH	STA.	1018+00.0	TO	1018+10.0	41.9					
PAVT & SHLDRS	STA.	1018+10.0	TO	1020+40.0		964.7				
PAVEMENT	STA.	1020+40.0	TO	APPR			93.2			
LT SHLDR	STA.	1020+40.0	TO	APPR				22.8		
RT SHLDR	STA.	1020+40.0	TO	APPR				35.5		
APPROACH	STA.	1020+76.2	TO	1020+96.2					91.2	0.10
APPROACH	STA.	1023+39.1	TO	1023+59.0					97.5	0.04
LT SHLDR	STA.	APPR	TO	1024+00.0				18.2		
RT SHLDR	STA.	APPR	TO	1024+00.0				39.4		
PAVEMENT	STA.	APPR	TO	1024+00.0			149.5			
PAVT & SHLDRS	STA.	1024+00.0	TO	1025+90.0		1106.8				
FULL WIDTH	STA.	1025+90.0	TO	1026+00.0	67.4					
SUBTOTAL ABOVE					*212.3*	*4214.9*	*526.5*	*213.9*	*409.7*	0.31
FROM CROSSOVER SCHEDULE						*220.1*		*1668.4*		
SUBTOTAL					*212.3*	*4435.0*	*526.5*	*1882.3*	*409.7*	0.31
TOTAL					**212**	**4435**	**527**	**1882**	**410**	**0.31**

MOWING TABLE

LOCATION	AREA	NUMBER OF MOWINGS	MOWING
	SQ FT	EACH	ACRE
SEASON 1			
MEDIAN	91212.9	2	4.19
OUTSIDE SLOPES	47559.4	2	2.18
SEASON 2			
MEDIAN	91212.9	2	4.19
OUTSIDE SLOPES	47559.4	2	2.18
SUBTOTAL			*12.74*
TOTAL			**12.74**

DRAINAGE TABLE

LOCATION	PIPE CULVERTS, CLASS A, TYPE 2 36"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	PIPE CULVERTS, CLASS D, TYPE 1 18" (TEMPORARY)	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 18", 1:6	SLOTTED DRAIN 18" WITH VARIABLE SLOT	MEDIAN INLET BOX REMOVAL	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	STORM SEWER CONNECTION	INLET BOX, STANDARD 542521
	FOOT	EACH	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH
IL 17									
RT STA. 51+41.94 TO 54+30.09	288.2	2.0							
WEST (NORTH) CROSSOVER)									
STA. 22+66.20 TO 30+09.90			292.0	2.0	178.0				
EAST (SOUTH) CROSSOVER)									
STA. 31+74.30 TO 41+11.90			294.0	2.0	223.0	2.0	1.0	1.0	1.0
SUBTOTAL	*288.2*	*2.0*	*586.0*	*4.0*	*401.0*	*2.0*	*1.0*	*1.0*	*1.0*
TOTAL	**288**	**2**	**586**	**4**	**401**	**2**	**1**	**1**	**1**

PIPE UNDERDRAIN TABLE

LOCATION	REMOVE AND REPLACE CONCRETE HEADWALLS FOR PIPE DRAINS	PIPE UNDERDRAINS 4" (SPECIAL)	CONNECTION OF EXISTING PIPE UNDERDRAIN	UNDERDRAIN CONNECTION TO STRUCTURE	PIPE UNDERDRAIN REMOVAL	CONCRETE HEADWALLS FOR PIPE DRAINS
	EACH	FOOT	EACH	EACH	FOOT	EACH
SOUTH MEDIAN CROSSOVER						
WB, NORTH OF CROSSOVER	1.0	57.0	1.0	1.0	57.0	
EB, NORTH OF CROSSOVER	1.0	26.0	1.0	1.0	26.0	
SN 037-0049 (EB)						2.0
SN 037-0053 (WB)						2.0
SUBTOTAL	*2.0*	*83.0*	*2.0*	*2.0*	*83.0*	*4.0*
TOTAL	**2**	**83**	**2**	**2**	**83**	**4**

ELECTRICAL TABLE

LOCATION	RELOCATE EXISTING LIGHTING UNIT	TEMPORARY LIGHTING SYSTEM
	EACH	L SUM
ELECTRICAL ITEMS	2.0	1.0
SUBTOTAL	*2.0*	*1.0*
TOTAL	**2**	**1**

RIGHT-OF-WAY TABLE

LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	PERMANENT SURVEY MARKERS, TYPE I
	EACH	EACH
R.O.W. NORTH OF IL 17		
STA. 20+98.1 140.00' RT	1.0	
STA. 21+49.4 140.00' RT	1.0	
STA. 21+36.3 22.96' LT	1.0	
STA. 21+87.6 23.04' LT	1.0	
BRIDGE MOUNTED		
SN 037-0049 (EB)		1.0
SN 037-0053 (WB)		1.0
SUBTOTAL	*4.0*	*2.0*
TOTAL	**4**	**2**

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TRAFFIC CONTROL TABLE								
LOCATION	CHANGEABLE MESSAGE SIGN	TRAFFIC CONTROL SURVEILLANCE	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
	CAL DAY	CAL DA	L SUM	L SUM	EACH	EACH	L SUM	L SUM
TRAFFIC CONTROL ITEMS	56	270	1	1	2	2	1	1
SUBTOTAL	*56.0*	*270.0*	*1.0*	*1.0*	*2.0*	*2.0*	*1.0*	*1.0*
TOTAL	**56**	**270**	**1**	**1**	**2**	**2**	**1**	**1**

JOBSITE TABLE										
LOCATION	MOBILIZATION	ENGINEER'S FIELD OFFICE, TYPE A	ENGINEER'S FIELD LABORATORY	CONSTRUCTION LAYOUT	TRAINEES	TRAINEES TRAINING PROGRAM GRADUATE	EXPLORATION TRENCH (SPECIAL)	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	REGULATED SUBSTANCES MONITORING
	LSUM	CAL MO	CAL MO	L SUM	HOURS	HOURS	FOOT	L SUM	L SUM	CAL DA
JOBSITE	1	28	28	1	1000	1000	325	1	1	10
SUBTOTAL	*1.0*	*28.0*	*28.0*	*1.0*	*1000.0*	*1000.0*	*325.0*	*1.0*	*1.0*	*10.0*
TOTAL	**1**	**28**	**28**	**1**	**1000**	**1000**	**325**	**1**	**1**	**10**

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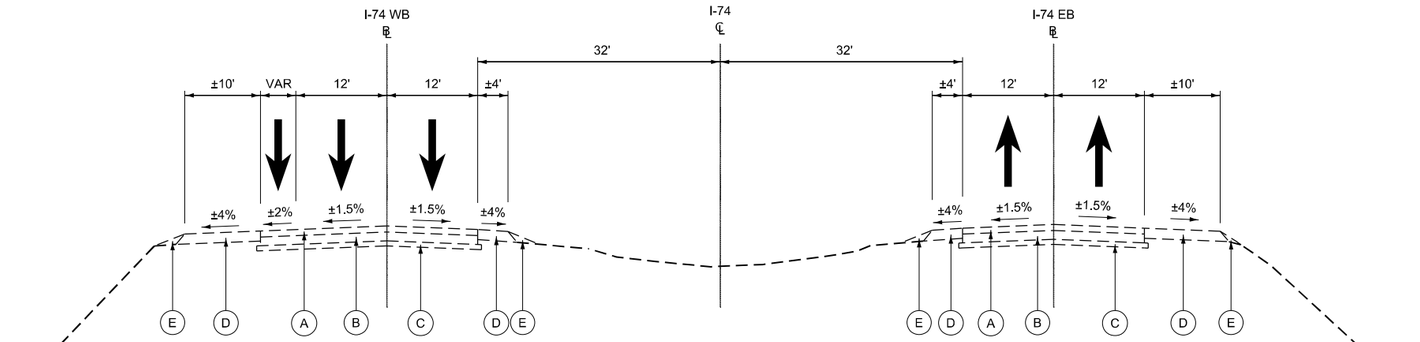
VEENSTRA & KIMM INC.

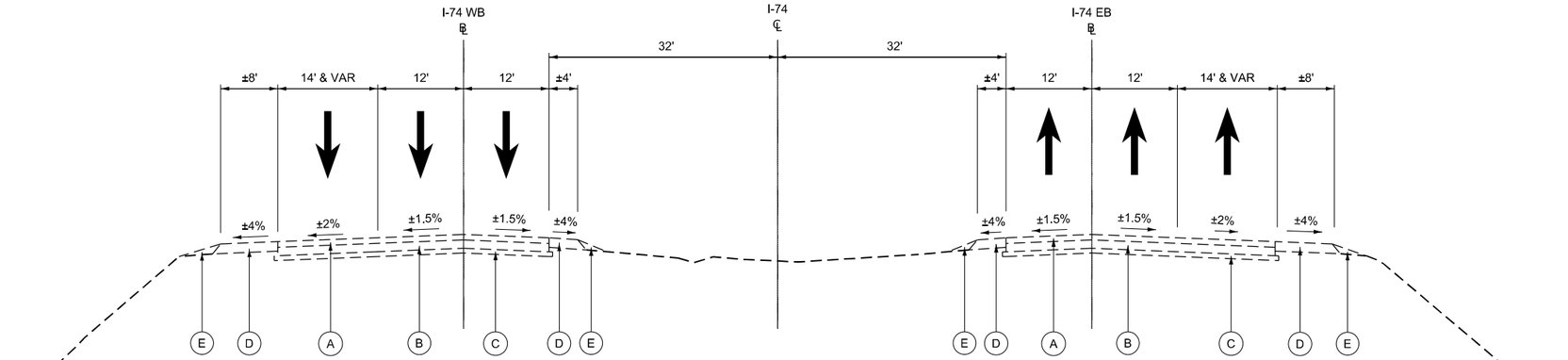
DESIGNED - PMO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	24
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



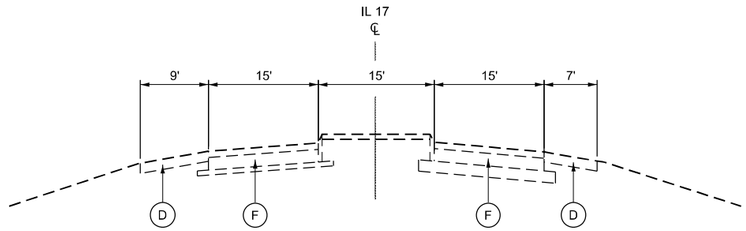
EXISTING TYPICAL CROSS SECTION

I-74 - NORTH OF BRIDGE



EXISTING TYPICAL CROSS SECTION

I-74 - SOUTH OF BRIDGE



EXISTING TYPICAL CROSS SECTION

IL 17

LEGEND

EXISTING

- (A) BITUMINOUS PAVEMENT, 4 ¾"
- (B) PCC PAVEMENT, 7"
- (C) STABILIZED SUBBASE
- (D) BITUMINOUS SHOULDER
- (E) AGGREGATE SHOULDER
- (F) BITUMINOUS PAVEMENT

PROPOSED

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90 (2")
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 (2 ¼")
- (3) HOT-MIX ASPHALT BASE COURSE, 11"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) GUARDRAIL AGGREGATE EROSION CONTROL (8")
- (6) AGGREGATE SHOULDERS, TYPE B (8")
- (7) SEEDING, CLASS 3
  TOPSOIL FURNISH AND PLACE, 4"
- (8) HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL) (SEE DETAIL)

MODEL: Typical Sections [Sheet]
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VEENSTRA & KIMM INC.

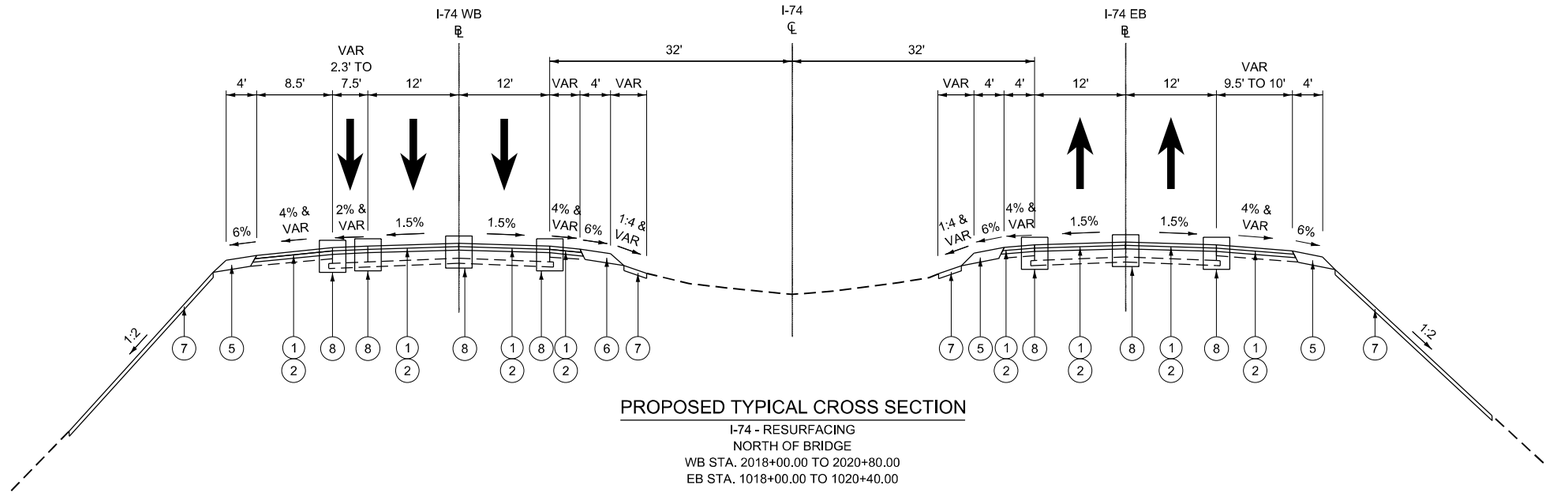
	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

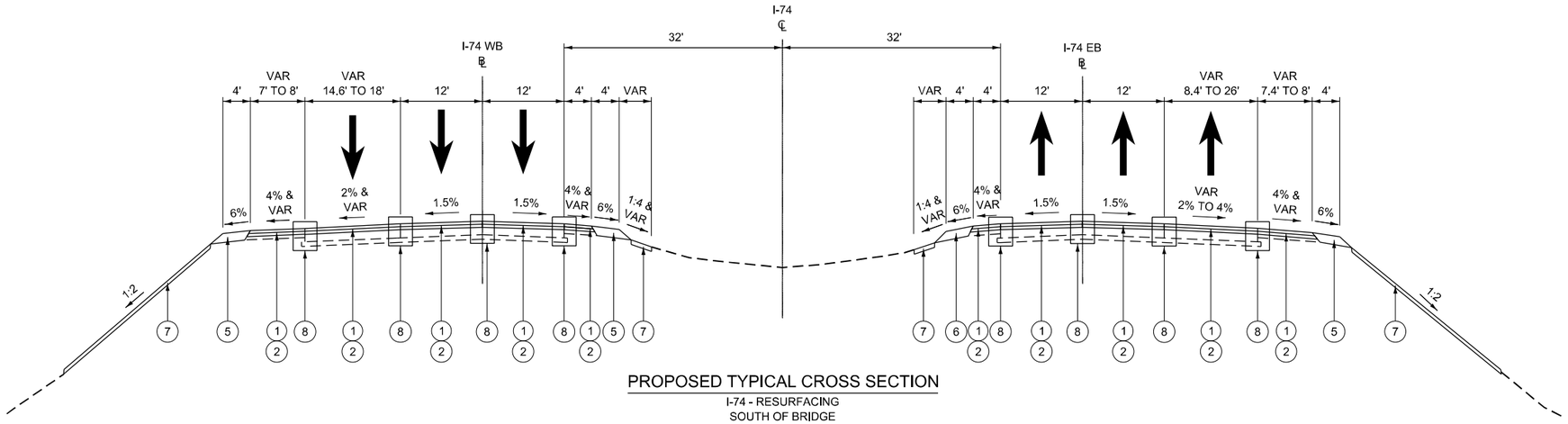
SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	25
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL CROSS SECTION

I-74 - RESURFACING
NORTH OF BRIDGE
WB STA. 2018+00.00 TO 2020+80.00
EB STA. 1018+00.00 TO 1020+40.00



PROPOSED TYPICAL CROSS SECTION

I-74 - RESURFACING
SOUTH OF BRIDGE
WB STA. 2024+35.00 TO 2026+00.00
EB STA. 1024+00.00 TO 1026+00.00

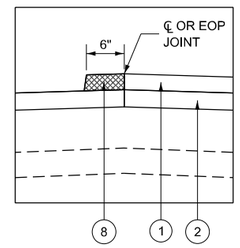
LEGEND

EXISTING

- (A) BITUMINOUS PAVEMENT, 4 ¾"
- (B) PCC PAVEMENT, 7"
- (C) STABILIZED SUBBASE
- (D) BITUMINOUS SHOULDER
- (E) AGGREGATE SHOULDER
- (F) BITUMINOUS PAVEMENT

PROPOSED

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90 (2")
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 (2 ¼")
- (3) HOT-MIX ASPHALT BASE COURSE, 11"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) GUARDRAIL AGGREGATE EROSION CONTROL (8")
- (6) AGGREGATE SHOULDERS, TYPE B (8")
- (7) SEEDING, CLASS 3
  TOPSOIL FURNISH AND PLACE, 4"
- (8) HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL) (SEE DETAIL)



NOTE:
SEE CONSTRUCTION SEQUENCE FOR MILLING AND PAVING SPECIAL PROVISION

HMA SURFACE REMOVAL (SPECIAL)
DETAIL

MODEL: Typical Sections-1 [Sheet]
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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

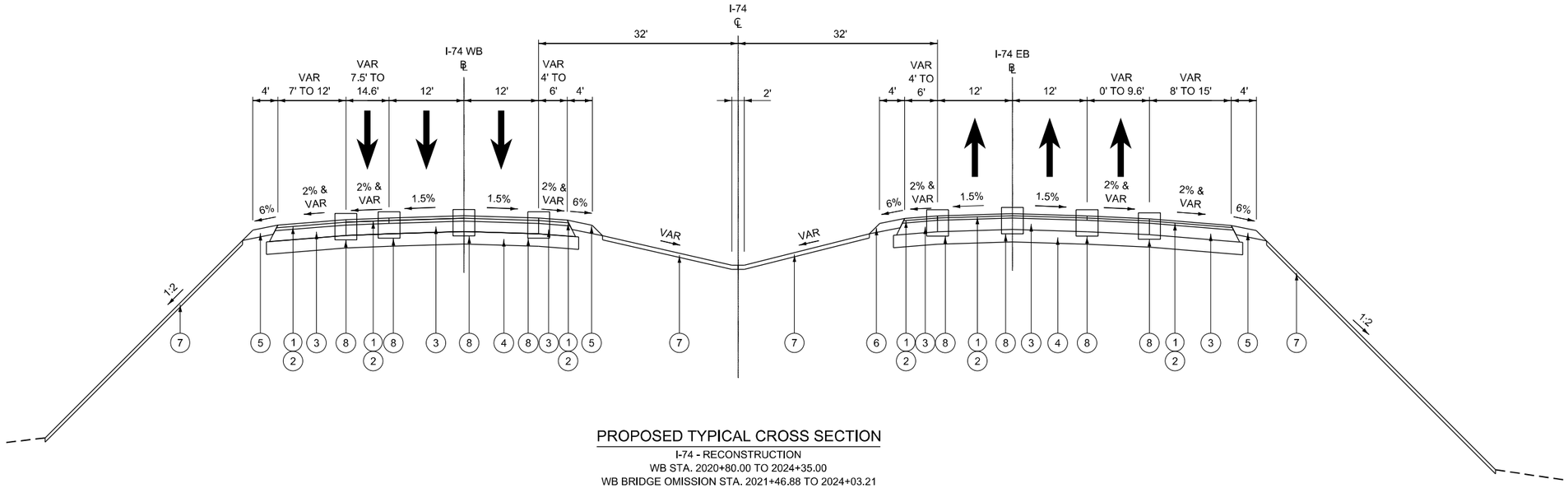
TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	26

CONTRACT NO. 68510

ILLINOIS | FED. AID PROJECT



LEGEND

EXISTING

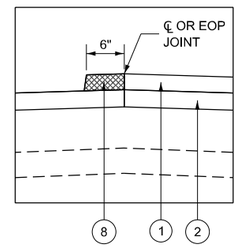
- (A) BITUMINOUS PAVEMENT, 4 ¾"
- (B) PCC PAVEMENT, 7"
- (C) STABILIZED SUBBASE
- (D) BITUMINOUS SHOULDER
- (E) AGGREGATE SHOULDER
- (F) BITUMINOUS PAVEMENT

PROPOSED

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90 (2")
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 (2 ¼")
- (3) HOT-MIX ASPHALT BASE COURSE, 11"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) GUARDRAIL AGGREGATE EROSION CONTROL (8")
- (6) AGGREGATE SHOULDERS, TYPE B (8")
- (7) SEEDING, CLASS 3
  TOPSOIL FURNISH AND PLACE, 4"
- (8) HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL) (SEE DETAIL)

PROPOSED TYPICAL CROSS SECTION

I-74 - RECONSTRUCTION
WB STA. 2020+80.00 TO 2024+35.00
WB BRIDGE OMISSION STA. 2021+46.88 TO 2024+03.21
EB STA. 1020+40.00 TO 1024+00.00
EB BRIDGE OMISSION STA. 1021+24.20 TO 1023+79.13



NOTE:
SEE CONSTRUCTION SEQUENCE FOR MILLING AND PAVING SPECIAL PROVISION

HMA SURFACE REMOVAL (SPECIAL)
DETAIL

MODEL: Typical Sections-2 [Sheet]
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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

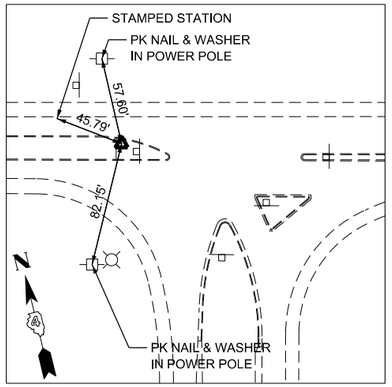
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	27

CONTRACT NO. 68510

ILLINOIS | FED. AID PROJECT

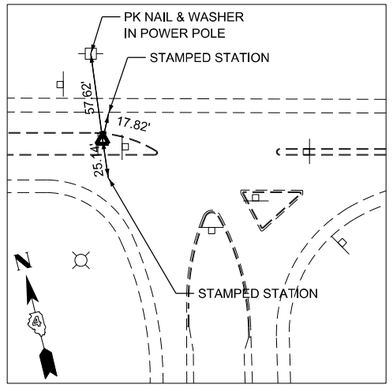
ALIGNMENT COORDINATES - I-74				
	POINT	STATION	N	E
WB ℄	POB	2000+00.00	1646205.990	2251038.633
	POT	2072+00.00	1639006.623	2250943.151
℄	POB	0+00.00	1646206.573	2250994.637
	POT	72+00.00	1639007.207	2250899.155
EB ℄	POB	1000+00.00	1646207.157	2250950.641
	POT	1072+00.00	1639007.790	2250855.159

ALIGNMENT COORDINATES - IL 17			
POINT	STATION	N	E
POB	49+47.80	1644026.854	2250622.450
POT	56+52.20	1643857.438	2251306.164



CONTROL POINT #10

SET CHISELED "X" WITH DRILL HOLE
STA. 20+90.50, 733.74 RT
N 1644125.986
E 2250233.234
ELEV. 810.594



CONTROL POINT #11

SET CHISELED "X" WITH DRILL HOLE
STA. 24+19.50, 678.38 LT
N 1643778.289
E 2251640.875
ELEV. 815.488

BENCHMARK PSM #8

N 1644132.812
E 2250971.230
ELEV. 836.574

BRASS DISK SET IN CONCRETE
IN GRASS MEDIAN OF I-74
ON NORTH SIDE OF IL 17

N

0 200 400 600
SCALE IN FEET

MODEL: Default
FILE NAME: \\vktfs-fs\Illinois\0500\0523-IL_DOT_District_4\0523-0008-0004_PTB205_027_WO4_FAI74_over_IL17_Ph2_PS_E\CADD_Bentley_ORDI_Sheets\Align-Ties\68510-sht-Align-Ties.dgn

VEENSTRA & KIMM INC.

DESIGNED	-	PMO	REVISED -
DRAWN	-	PMO	REVISED -
CHECKED	-	DMS	REVISED -
DATE	-	04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	28
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

EX ROW

GUARDRAIL REMOV

STA. 54+38.52

STA. 2021+22.65

± STA. 2021+16.7

± STA. 2020+96.7

STA. 2020+80.00

STA. 2018+10.00

STA. 2018+00.00

STA. 2017+76.02

GUARDRAIL REMOV

EXISTING UNDERPASS LIGHTING TO BE RELOCATED
(SEE ELECTRICAL PLANS)

GUARDRAIL REMOV

± STA. 2023+59.7

STA. 2023+81.19

± STA. 2023+79.7

STA. 2024+35.00

STA. 2025+90.00

STA. 2026+24.26

STA. 2026+00.00

2014 | 2015+00 | 2016 | 2017 | 2018 | 2019 | 2020+00 | 2021 | 2022 | 2023 | 2024 | 2025+00 | 2026 | 2027 | 2028 | 2029

14 | 15+00 | 16 | 17 | 18 | 19 | 20+00 | 21 | 22 | 23 | 24 | 25+00 | 26 | 27 | 28 | 29

I74

STA. 1016+72.53

STA. 1020+87.30

STA. 53+39.02

GUARDRAIL REMOV

STA. 52+74.56

STA. 2023+70.10

STA. 2027+52.27

GUARDRAIL REMOV

1014 | 1015+00 | 1016 | 1017 | 1018 | 1019 | 1020+00 | 1021 | 1022 | 1023 | 1024 | 1025+00 | 1026 | 1027 | 1028 | 1029

STA. 1018+00.00

STA. 1018+10.00

GUARDRAIL REMOV

STA. 1020+40.00

± STA. 1020+76.2

STA. 1020+70.57

± STA. 1020+96.2

EX ROW

STA. 1024+00.00

± STA. 1023+59.1

± STA. 1023+39.1

STA. 1023+47.22

STA. 1026+00.00

STA. 1025+90.00

STA. 1025+21.95

GUARDRAIL REMOV

STA. 52+35.08

GUARDRAIL REMOV

STA. 51+89.84

STA. 51+65.63

EX ROW

50+00

IL-17

55+00

54

53

52

51

LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- APPROACH SLAB REMOVAL
- LINEAR REMOVAL ITEM (AS NOTED)

0 50 100 150

SCALE IN FEET

MODEL: Removal Plan [Sheet]
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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	29
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

RIPRAP DETAIL

LEGEND

PAVEMENT RECONSTRUCTION
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70
HMA BASE CSE 11
AGG SUBGR IMPR 12

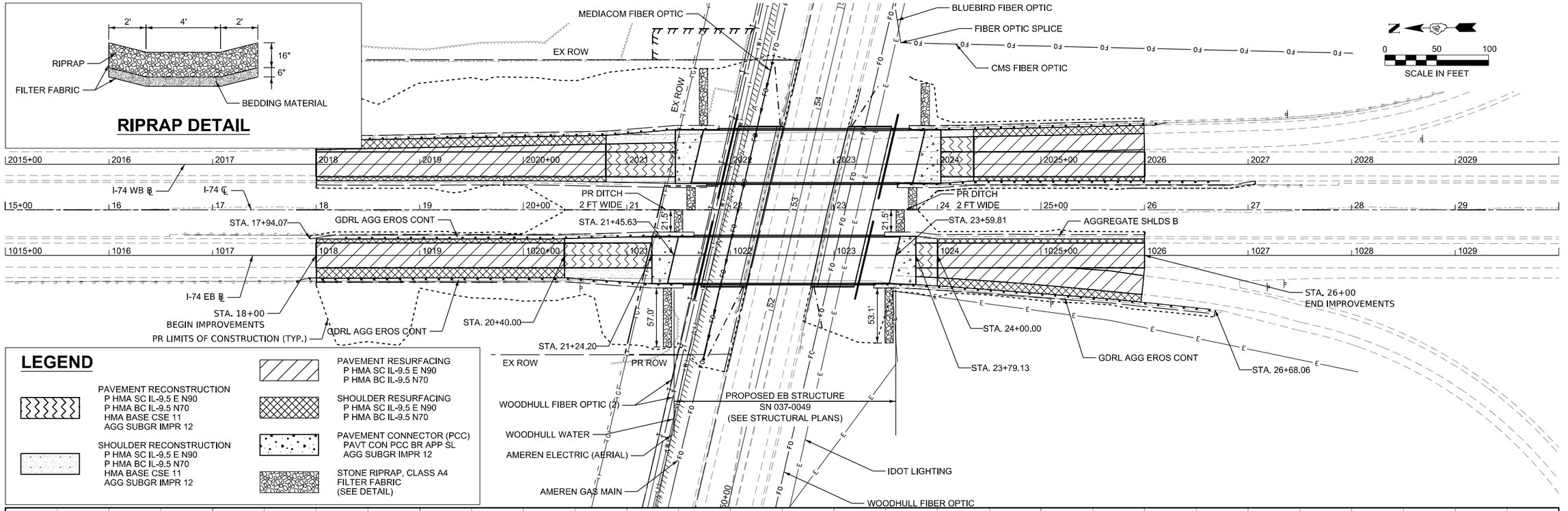
SHOULDER RECONSTRUCTION
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70
HMA BASE CSE 11
AGG SUBGR IMPR 12

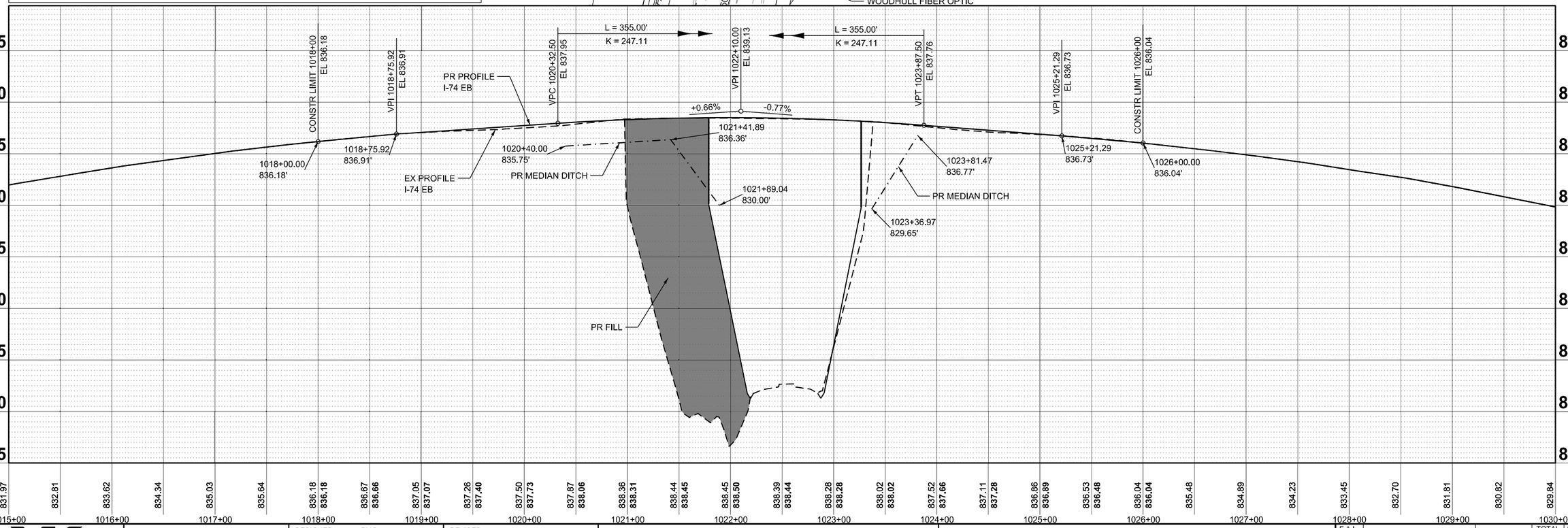
PAVEMENT RESURFACING
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70

SHOULDER RESURFACING
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70

PAVEMENT CONNECTOR (PCC)
PAVT CON PCC BR APP SL
AGG SUBGR IMPR 12

STONE RIPRAP, CLASS A4
FILTER FABRIC
(SEE DETAIL)





VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
I–74 EB

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 1015+00.00 | TO STA. 1030+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	30
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

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LEGEND

PAVEMENT RECONSTRUCTION
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70
HMA BASE CSE 11
AGG SUBGR IMPR 12

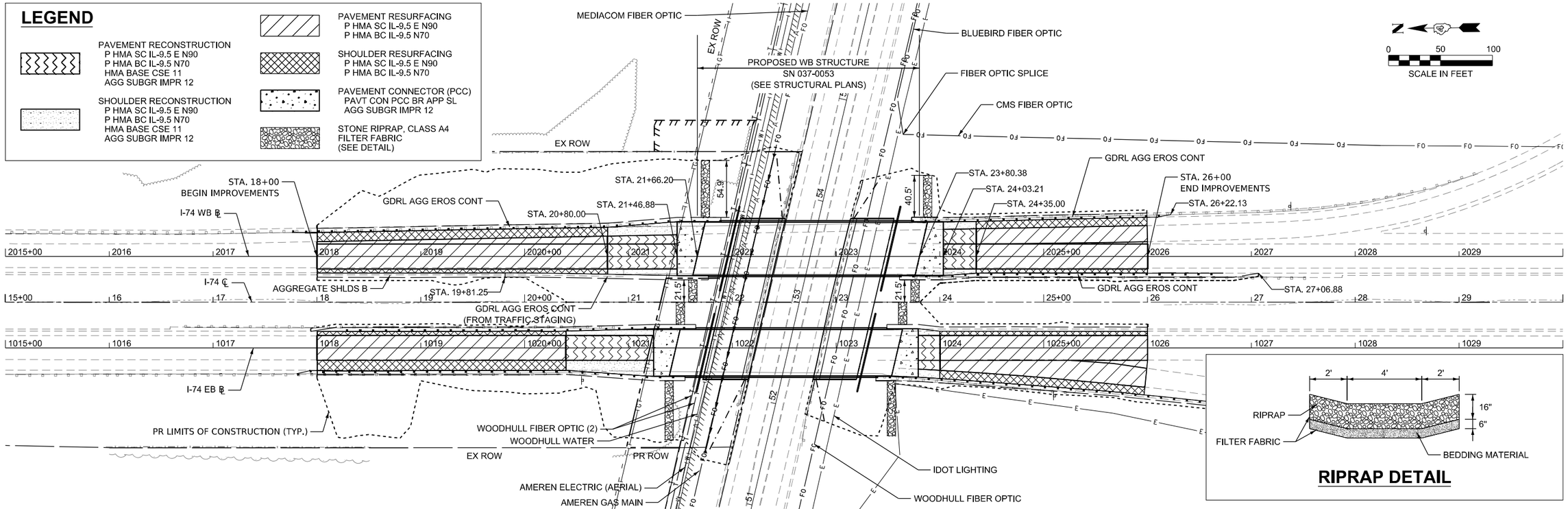
SHOULDER RECONSTRUCTION
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70
HMA BASE CSE 11
AGG SUBGR IMPR 12

PAVEMENT RESURFACING
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70

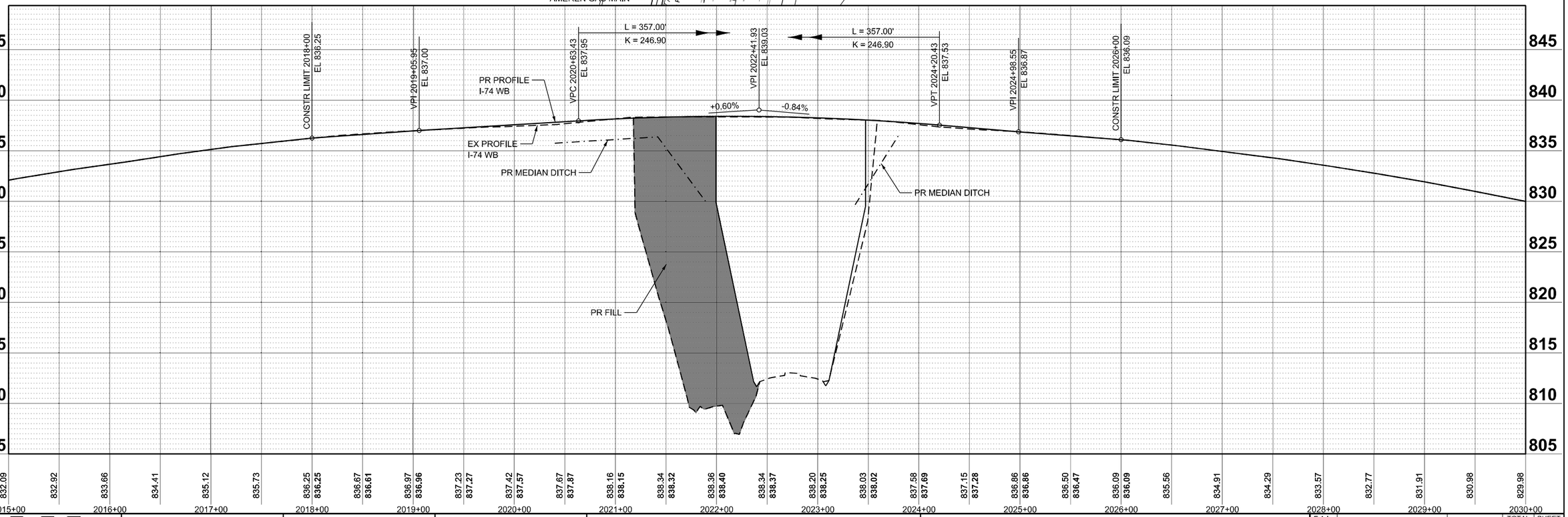
SHOULDER RESURFACING
P HMA SC IL-9.5 E N90
P HMA BC IL-9.5 N70

PAVEMENT CONNECTOR (PCC)
PAVT CON PCC BR APP SL
AGG SUBGR IMPR 12

STONE RIPRAP, CLASS A4
FILTER FABRIC
(SEE DETAIL)



RIPRAP DETAIL



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VEENSTRA & KIMM INC.

DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
I–74 WB

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. 2015+00.00 | TO STA. 2030+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	31
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

WOODHULL FIBER OPTIC (2)
WOODHULL WATER
AMEREM ELECTRIC (AERIAL)
MEDIACOM FIBER OPTIC
PR V-DITCH
PRC FLAR END SEC 36
STA. 51+41.94, 55.4' LT
INV ELEV. 806.16
AGGREGATE SHLDS B
STA. 52+16.58
OFF. 31.26' LT.
SLOPE WALL 4
(SEE STRUCTURE PLANS)
P CUL A 2 36
STA. 53+75.57
OFF. 31.30' LT.
AGGREGATE SHLDS B
STA. 54+40.13
OFF. 30.89' LT.
PR V-DITCH
PRC FLAR END SEC 36
STA. 54+30.09, 55.9' LT
INV ELEV. 807.02
EX ROW
IL 17 ℄
STA. 51+31.98
OFF. 31.19' LT.
STA. 52+30.81
OFF. 29.62' RT.
AGGREGATE SHLDS B
STA. 51+96.75
OFF. 29.74' RT.
SLOPE WALL 4
(SEE STRUCTURE PLANS)
STA. 53+89.82
OFF. 29.63' RT.
AGGREGATE SHLDS B
STA. 54+27.49
OFF. 30.85' RT.
PR V-DITCH
WOODHULL FIBER OPTIC
IDOT LIGHTING
PR V-DITCH
PR LIMITS OF CONSTRUCTION (TYP.)
BLUEBIRD FIBER OPTIC
FIBER OPTIC SPLICE
CMS FIBER OPTIC
1022
1023
2022
2023
22
23
50+00
51
52
53
54
55+00
0 20 40
SCALE IN FEET

EX PROFILE
IL 17
PR PROFILE
RIGHT SIDE V-DITCH
PR PROFILE
LEFT SIDE V-DITCH
51+94.11
809.85'
52+15.87
811.12'
52+31.51
811.14'
3.15%
6.53%
51+41.94
806.16'
P CUL CL A 2 36 - 0.30%
53+90.52
811.86'
53+74.87
811.78'
1.81%
8.18%
54+37.07
810.96'
54+30.09
807.02'
PR PROFILE
RIGHT SIDE V-DITCH
PR PROFILE
LEFT SIDE V-DITCH
815
810
805
800
50+00
50+50
51+00
51+50
52+00
52+50
53+00
53+50
54+00
54+50
55+00
55+50
56+00

MODEL: IL 17 - Plan 1 [Sheet]
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VEENSTRA & KIMM INC.

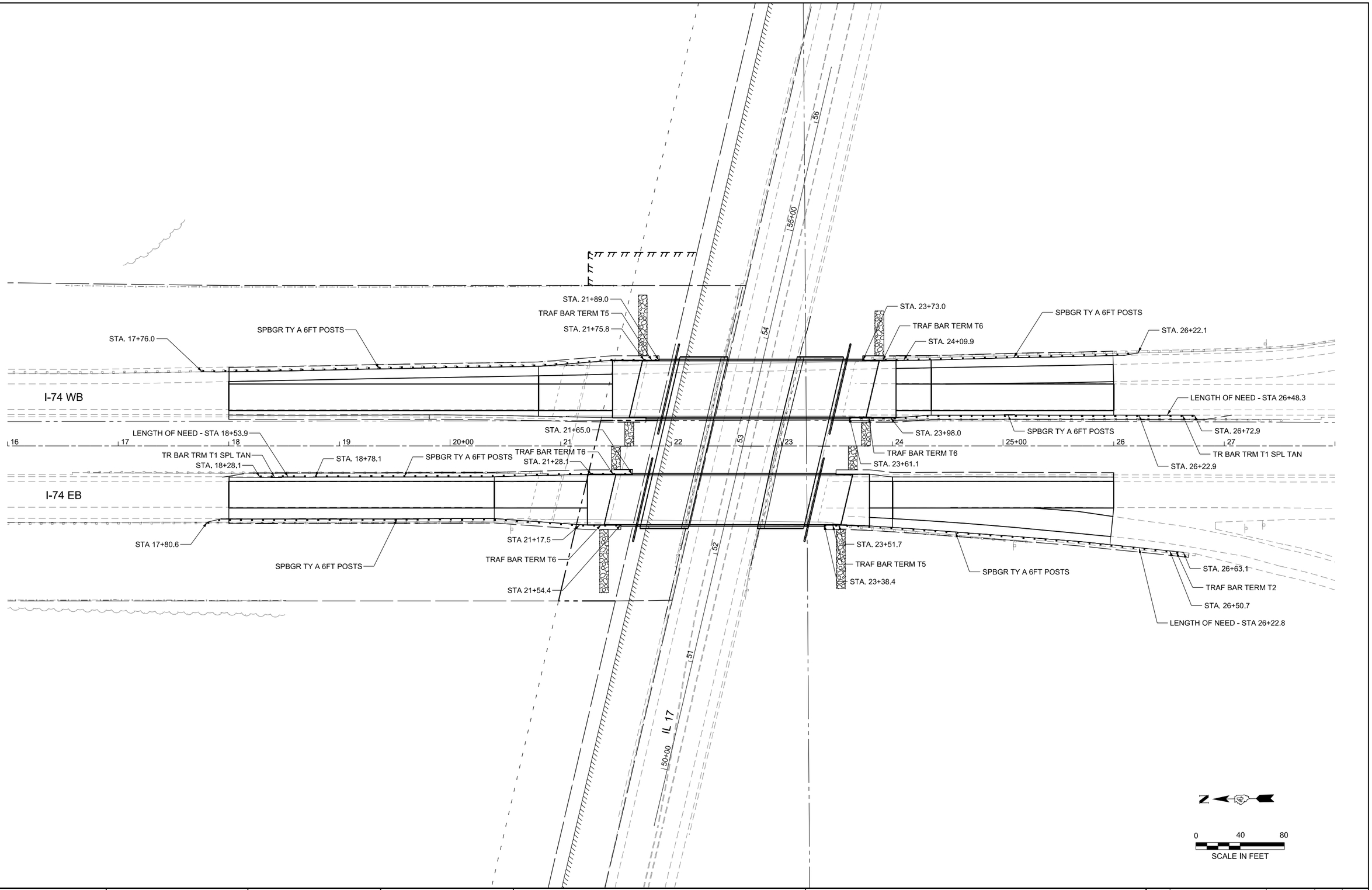
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILE
IL 17

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 50+00.00 | TO STA. 56+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	32
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



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VEENSTRA & KIMM INC.

DESIGNED -	PMO	REVISED	-
DRAWN -	PMO	REVISED	-
CHECKED -	DMS	REVISED	-
DATE -	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL PLAN

SCALE: 1"=40' | SHEET 1 OF 1 SHEETS | STA. 16+00.00 | TO STA. 28+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	33
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

0 50 100
SCALE IN FEET

EX PROP LINE
EX ROW
156
55+00
54
53
52
51
50+00

STA. 22+23.24
175.00' LT
STA. 21+25.00
175.00' LT
TEMP EASEMENT
STA. 21+25.00
145.00' LT
EX ROW
STA. 21+87.64
23.04' LT
FUR ERECT ROW MARKERS
STA. 21+36.26
22.96' LT
FUR ERECT ROW MARKERS
I-74 WB ℄
I-74 ℄
PR ROW

2015+00 2016 2017 2018 2019 2020+00 2021 2022 2023 2024 2025+00 2026 2027 2028 2029

15+00 16 17 18 19 20+00 21 22 23 24 25+00 26 27 28 29

1015+00 1016 1017 1018 1019 1020+00 1021 1022 1023 1024 1025+00 1026 1027 1028 1029

I-74 EB ℄
PR ROW
STA. 20+98.09
140.00' RT
FUR ERECT ROW MARKERS
EX ROW
PR ROW
STA. 21+49.44
140.00' RT
FUR ERECT ROW MARKERS
IL 17 ℄
EX ROW
EX PROP LINE

MODEL: I74 - Plan 1-1 [Sheet]
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VEENSTRA & KIMM INC.

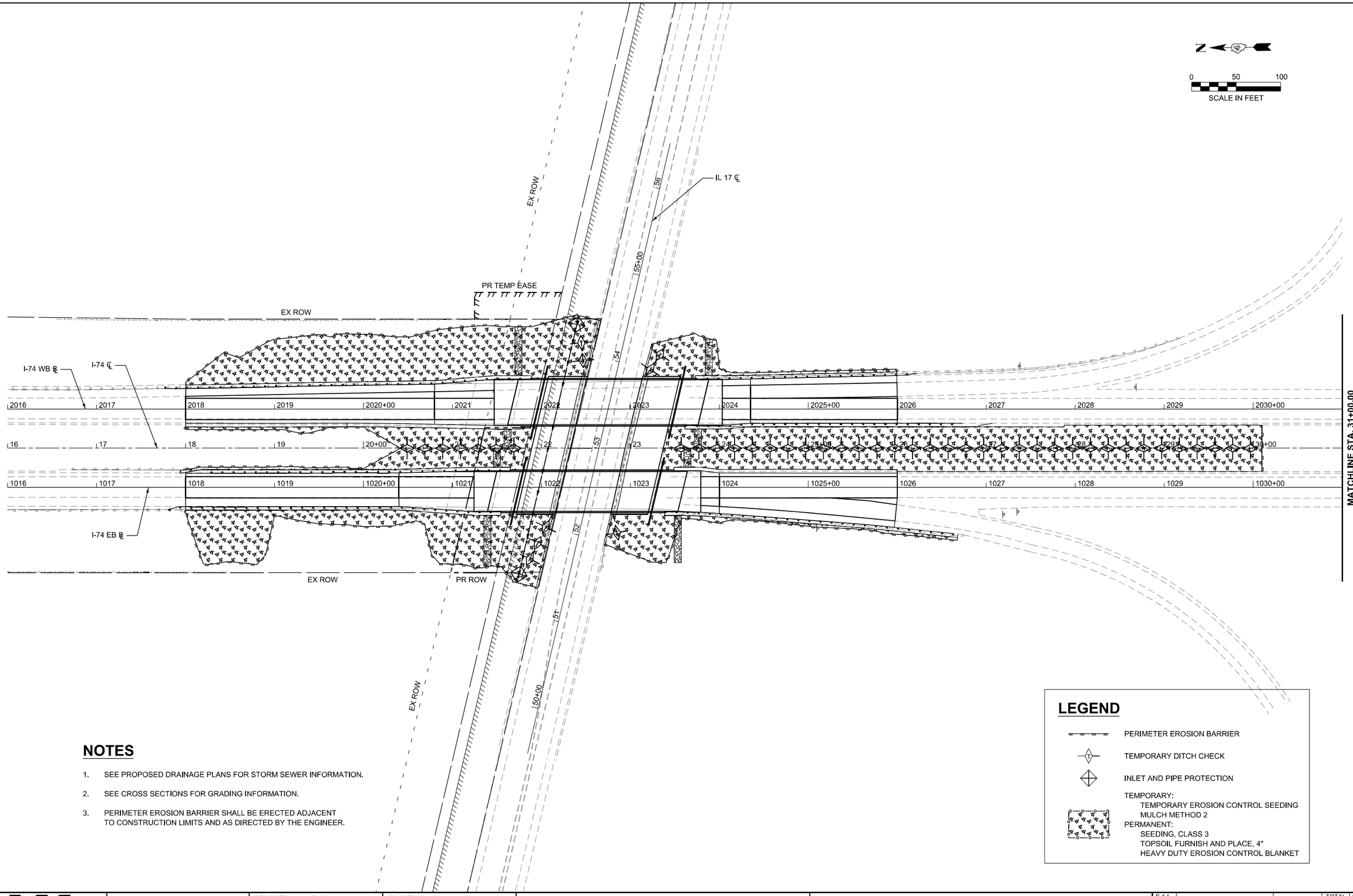
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

R.O.W. PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 15+00.00 | TO STA. 30+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	34
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. SEE PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. SEE CROSS SECTIONS FOR GRADING INFORMATION.
3. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- TEMPORARY:
  - TEMPORARY EROSION CONTROL SEEDING
  - MULCH METHOD 2
- PERMANENT:
  - SEEDING, CLASS 3
  - TOPSOIL FURNISH AND PLACE, 4"
  - HEAVY DUTY EROSION CONTROL BLANKET

VEENSTRA & KIMM INC.

DESIGNED	PMO	REVISED	-
DRAWN	PMO	REVISED	-
CHECKED	DMS	REVISED	-
DATE	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 16+00.00 | TO STA. 31+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	35
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

MODEL: I74 - Plan 1 [Sheet]
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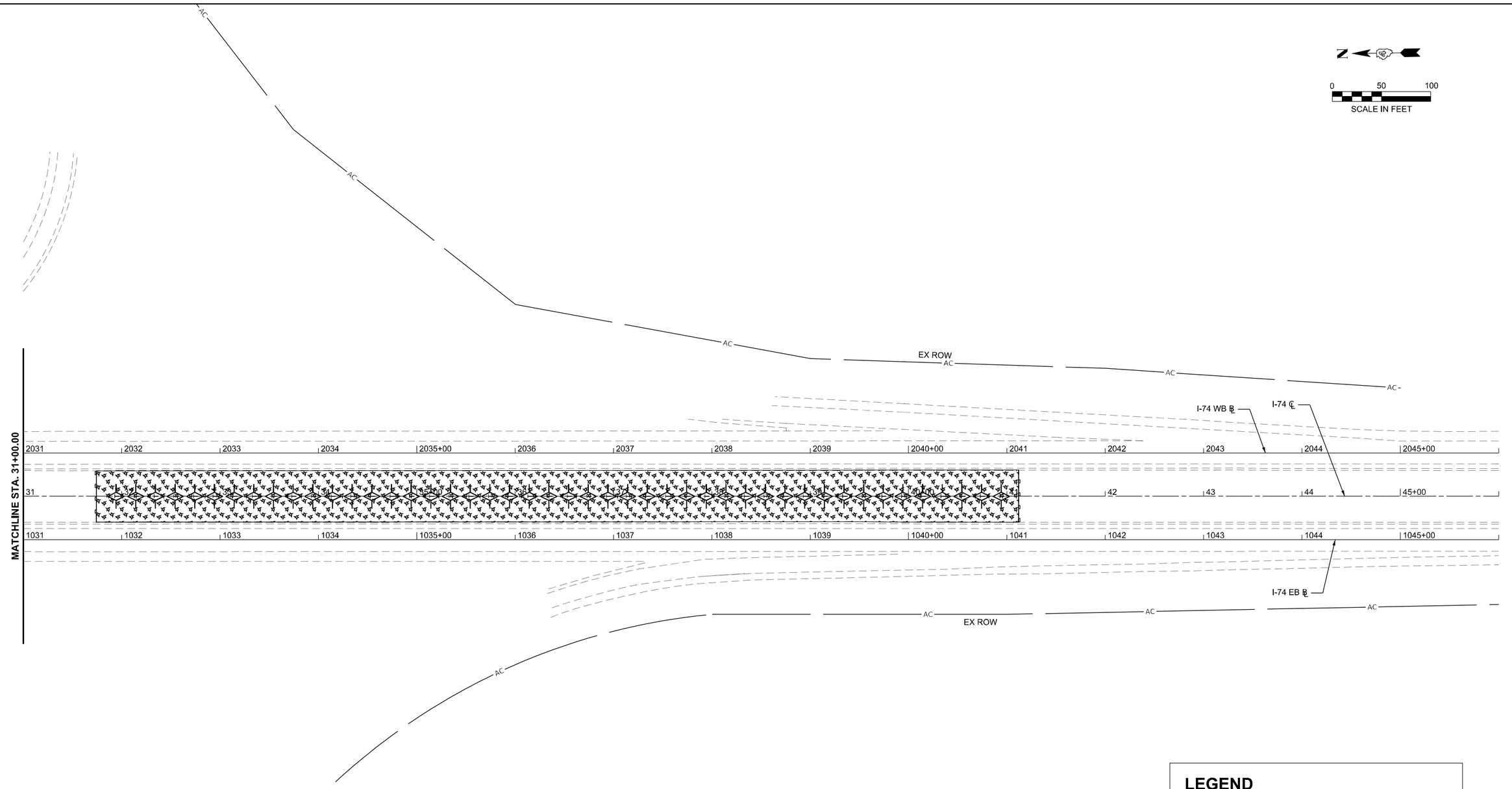

NOTES

1. SEE PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. SEE CROSS SECTIONS FOR GRADING INFORMATION.
3. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- TEMPORARY:
  - TEMPORARY EROSION CONTROL SEEDING
  - MULCH METHOD 2
- PERMANENT:
  - SEEDING, CLASS 3
  - TOPSOIL FURNISH AND PLACE, 4"
  - HEAVY DUTY EROSION CONTROL BLANKET

MODEL: I74 - Plan 2 [Sheet]
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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. 31+00.00 | TO STA. 46+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	36
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

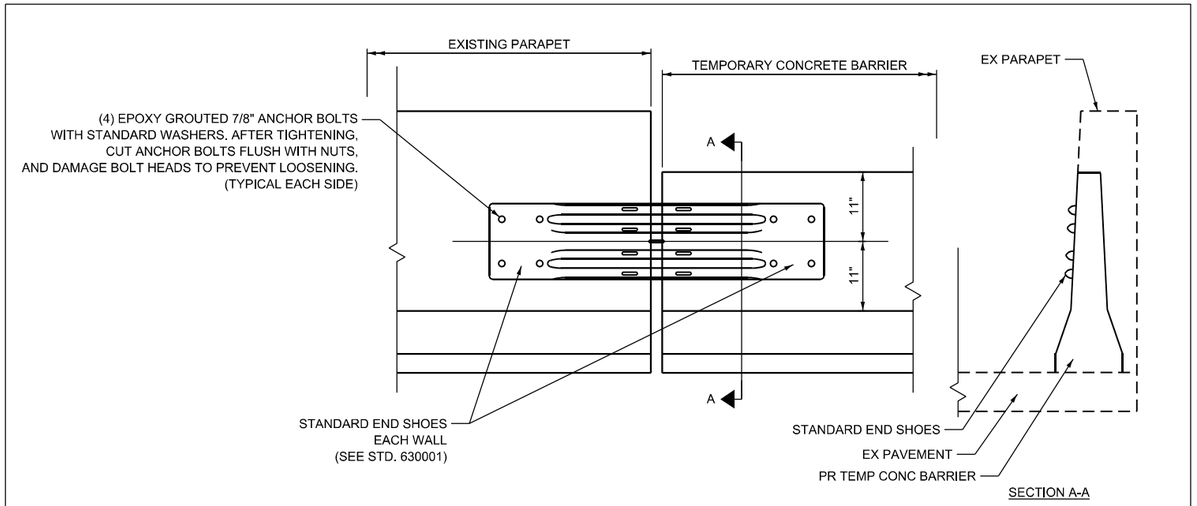
GENERAL NOTES - MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN. THESE NOTES, APPLICABLE SPECIAL PROVISIONS, AND SECTION 701 OF THE STANDARD SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISION FOR WORK ZONE TRAFFIC CONTROL.

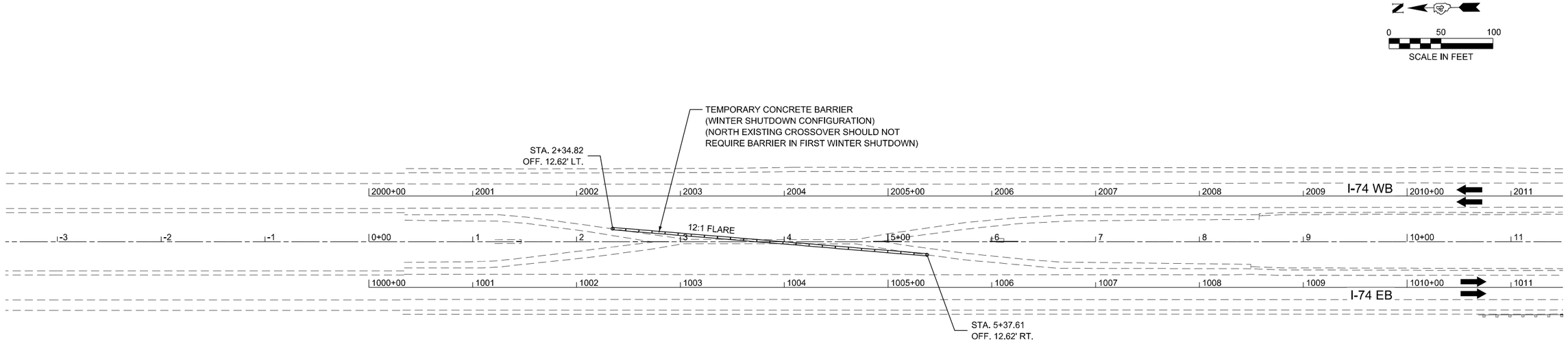
2. TEMPORARY PAVMENT MARKINGS PLACED FOR WINTER SHUTDOWN SHALL BE PAINT. ALL OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE TYPE IV TAPE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED BY WATERBLASTING WHEN LOCATED CONTINUOUSLY IN A WHEELPATH OF STAGED TRAFFIC, OR PRIOR TO WINTER SHUTDOWN. ALL OTHER CONFLICTING PAVEMENT MARKINGS SHALL BE COVERED WITH BLACKOUT TAPE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901, UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.



TEMPORARY CONCRETE BARRIER, TERMINAL SECTION (SPECIAL)



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VEENSTRA & KIMM INC.

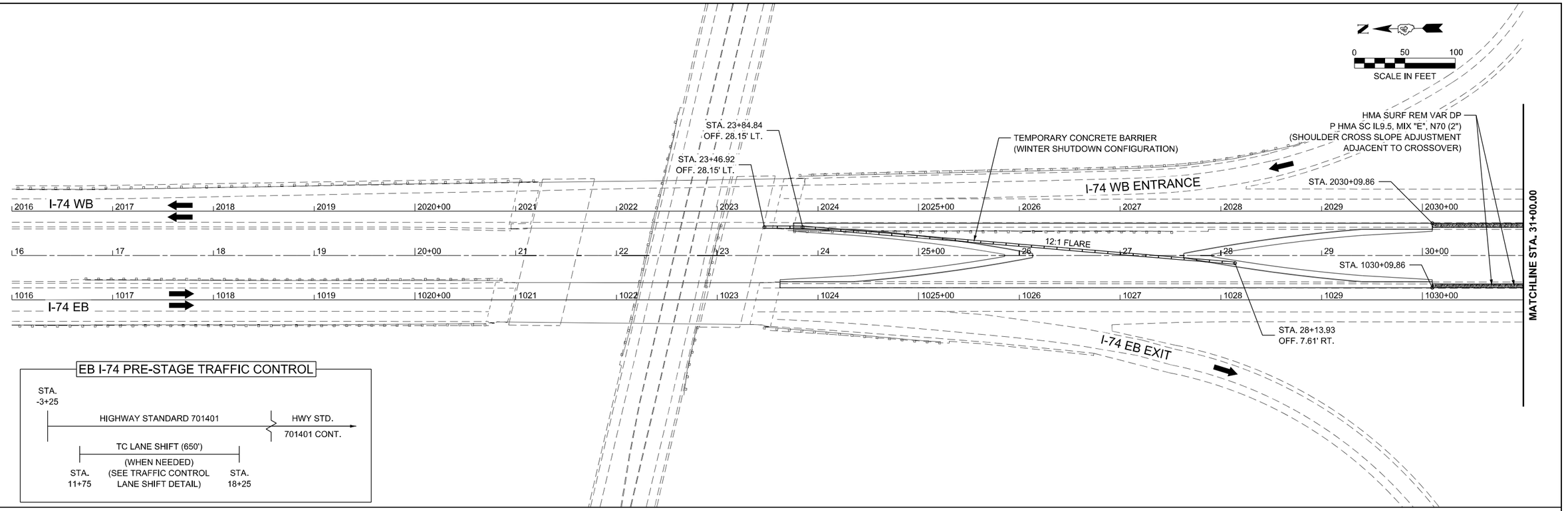
	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
GENERAL NOTES, DETAIL, AND I–74 WINTER SHUTDOWN

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. -3+50 | TO STA. 11+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	37
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 PRE–STAGE AND WINTER SHUTDOWN

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 16+00.00 TO STA. 46+00.00

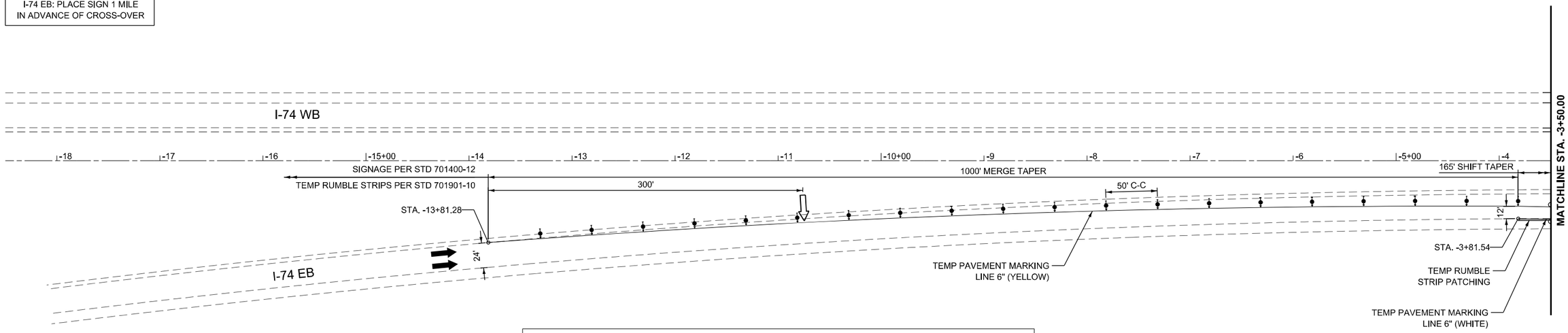
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	38
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

W6-3(O)-4848

NEXT 2 MILES W7-3aP(O)-4848

I-74 EB: PLACE SIGN 1 MILE
IN ADVANCE OF CROSS-OVER

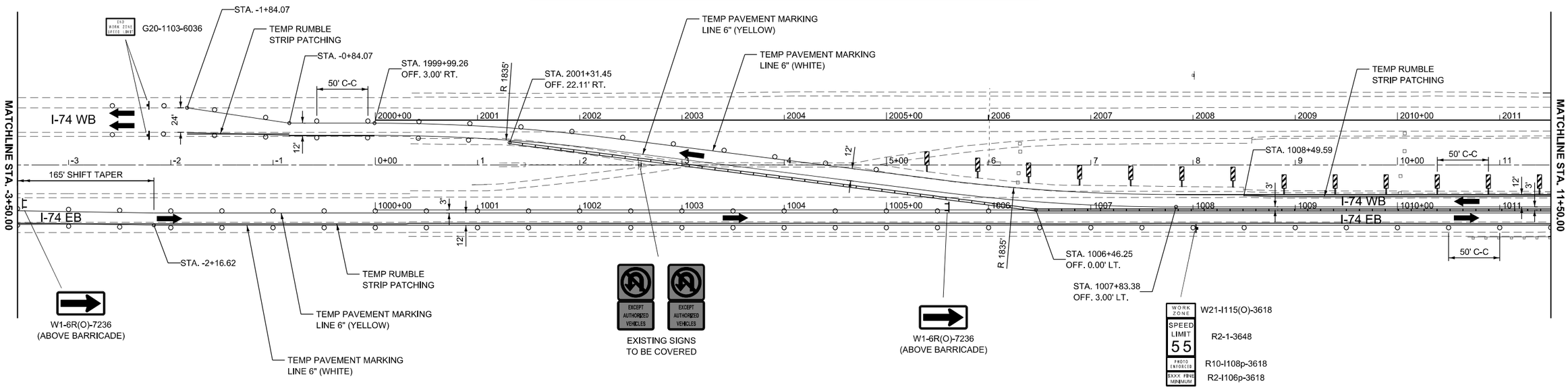
0 50 100
SCALE IN FEET



LEGEND

- ARROW BOARD
- CONSTRUCTION SIGN
- DIRECTION INDIACTOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER WITH MODULAR GLARE SCREEN
- WORK ZONE
- TEMP RUMBLE STRIP PATCHING HMA SURFACE REMOVAL, 3" P HMA SC IL9.5, MIX "E", N70 (3")

0 50 100
SCALE IN FEET



MODEL: ExCL_MOT_Sheets - MOT-01 Plan 1 [Sheet]
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VEENSTRA & KIMM INC.

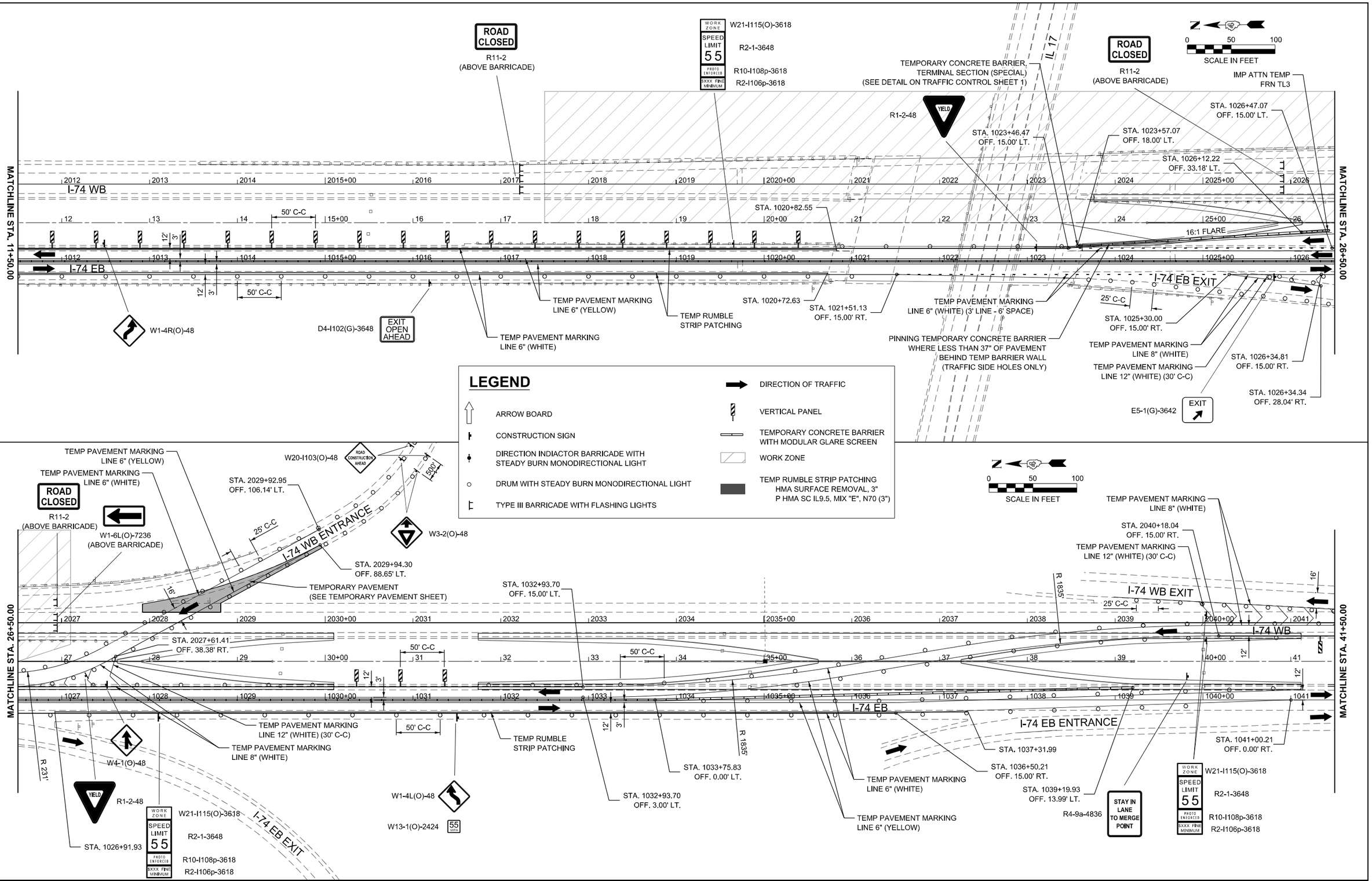
DESIGNED -	PMO	REVISED	-
DRAWN -	PMO	REVISED	-
CHECKED -	DMS	REVISED	-
DATE -	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 STAGE 1

SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. -18+50.00 | TO STA. 11+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	39
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

VEENSTRA & KIMM INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 STAGE 1

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 11+50.00 TO STA. 41+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	40
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

MODEL: ExCL_MOT_Sheets - MOT-01 Plan 3 [Sheet]
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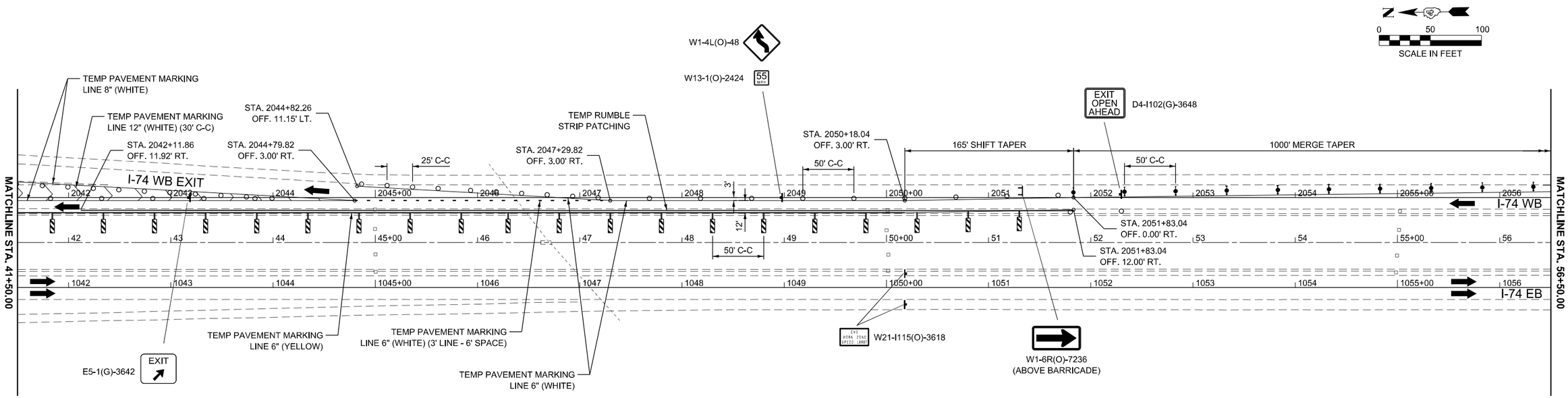
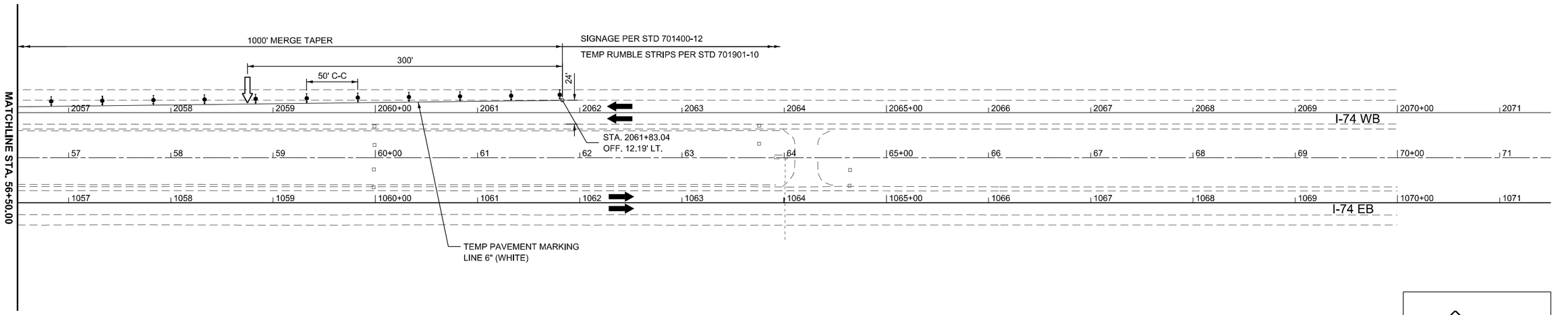


LEGEND

- ARROW BOARD
- CONSTRUCTION SIGN
- DIRECTION INDIACTOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER WITH MODULAR GLARE SCREEN
- WORK ZONE
- TEMP RUMBLE STRIP PATCHING HMA SURFACE REMOVAL, 3" P HMA SC IL9.5, MIX "E", N70 (3")



W6-3(O)-4848

NEXT 2 MILES W7-3aP(O)-4848

I-74 WB: PLACE SIGN 1 MILE IN ADVANCE OF CROSS-OVER

MODEL: ExCL_MOT_Sheets - MOT-01 Plan 5 [Sheet]
FILE NAME: \\vkdfs-fs\dfs\chesharo\550\00523-IL_DOT_District_4\00523-0008-0004_PTB205_027_W04_FAI74_over_IL17_Ph2_PS_E\CADD_BentWay_ORDs_Sheets\MOT\68510-afd-MOT_Plan_I74_Stg-01.dgn

VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 STAGE 1

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 41+50.00 | TO STA. 71+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	41
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

W6-3(O)-4848

NEXT 2 MILES W7-3aP(O)-4848

I-74 EB: PLACE SIGN 1 MILE IN ADVANCE OF CROSS-OVER

0 50 100

SCALE IN FEET

WORK ZONE SPEED LIMIT 55 PHOTO ENFORCED $XXX FINE MINIMUM — W21-I115(O)-3618, R2-1-3648, R10-I108p-3618, R2-I106p-3618

1 MILE WORK ZONE SPEED LIMIT — W21-I115(O)-3618

W1-6L(O)-7236 (ABOVE BARRICADE)

TEMP PAVEMENT MARKING LINE 6" (YELLOW)

TEMP RUMBLE STRIP PATCHING

50' C-C

I-74 WB

-18 -17 -16 -15+00 -14 -13 -12 -11 -10+00 -9 -8 -7 -6 -5+00 -4

STA. -8+12.09

STA. -8+11.59

12'

MATCHLINE STA. -3+50.00

STA. -18+06.48

I-74 EB

24'

300'

1000' MERGE TAPER

50' C-C

165' SHIFT TAPER

50' C-C

W1-4L(O)-48

55 MPH W13-1(O)-2424

TEMP PAVEMENT MARKING LINE 6" (WHITE)

SIGNAGE PER STD 701400-12

TEMP RUMBLE STRIPS PER STD 701901-10

LEGEND

- ARROW BOARD
- CONSTRUCTION SIGN
- DIRECTION INDIACTOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER WITH MODULAR GLARE SCREEN
- WORK ZONE
- TEMP RUMBLE STRIP PATCHING HMA SURFACE REMOVAL, 3" P HMA SC IL9.5, MIX "E", N70 (3")

0 50 100

SCALE IN FEET

EXISTING SIGNS TO BE COVERED — SPEED LIMIT 70 MINIMUM 45

TEMP PAVEMENT MARKING LINE 6" (WHITE)

STA. 2006+60.75 OFF. 15.00' LT.

STA. 2006+60.75 OFF. 3.00' LT.

STA. 2006+60.75 OFF. 0.00' LT.

STA. 2008+57.48 OFF. 12.43' RT.

TEMP RUMBLE STRIP PATCHING

STA. 2004+95.75 OFF. 11.36' LT.

STA. 2004+95.75 OFF. 0.00' RT.

TEMP PAVEMENT MARKING LINE 6" (YELLOW)

STA. 2001+16.53 OFF. 13.59' RT.

12' 50' C-C R 1835'

3' 12'

MATCHLINE STA. -3+50.00

I-74 WB

24'

2000+00 2001 2002 2003 2004 2005+00 2006 2007 2008 2009 2010+00 2011

-3 -2 -1 0+00 1 2 3 4 5+00 6 7 8 9 10+00 11

50' C-C

STA. 1000+15.57 OFF. 15.00' LT.

STA. 1999+95.75 OFF. 12.00' RT.

STA. 2007+50.11 OFF. 3.00' RT.

MATCHLINE STA. 11+50.00

I-74 EB

1000+00 1001 1002 1003 1004 1005+00 1006 1007 1008 1009 1010+00 1011

50' C-C

R 1835'

STA. -0+87.52 OFF. 31.00' RT.

EXISTING CROSSOVER TO REMAIN

TEMP RUMBLE STRIP PATCHING

TEMP RUMBLE STRIP PATCHING

WORK ZONE SPEED LIMIT 55 PHOTO ENFORCED $XXX FINE MINIMUM — W21-I115(O)-3618, R2-1-3648, R10-I108p-3618, R2-I106p-3618

MODEL: ExCL_MOT_Sheets - MOT-02 Plan 1 [Sheet]
FILE NAME: \\vkdfs\Skokie\shared\05009\0523-IL_DOT_District4_4\0523-0008-0004_PTB205_027_WO4_FAI74_over_IL17_PH2_PS_E\CADD_Bentley_ORD_Sheets\MOT\68510-sht-MOT_Plan_I74_Stg-02.dgn

VEENSTRA & KIMM INC.

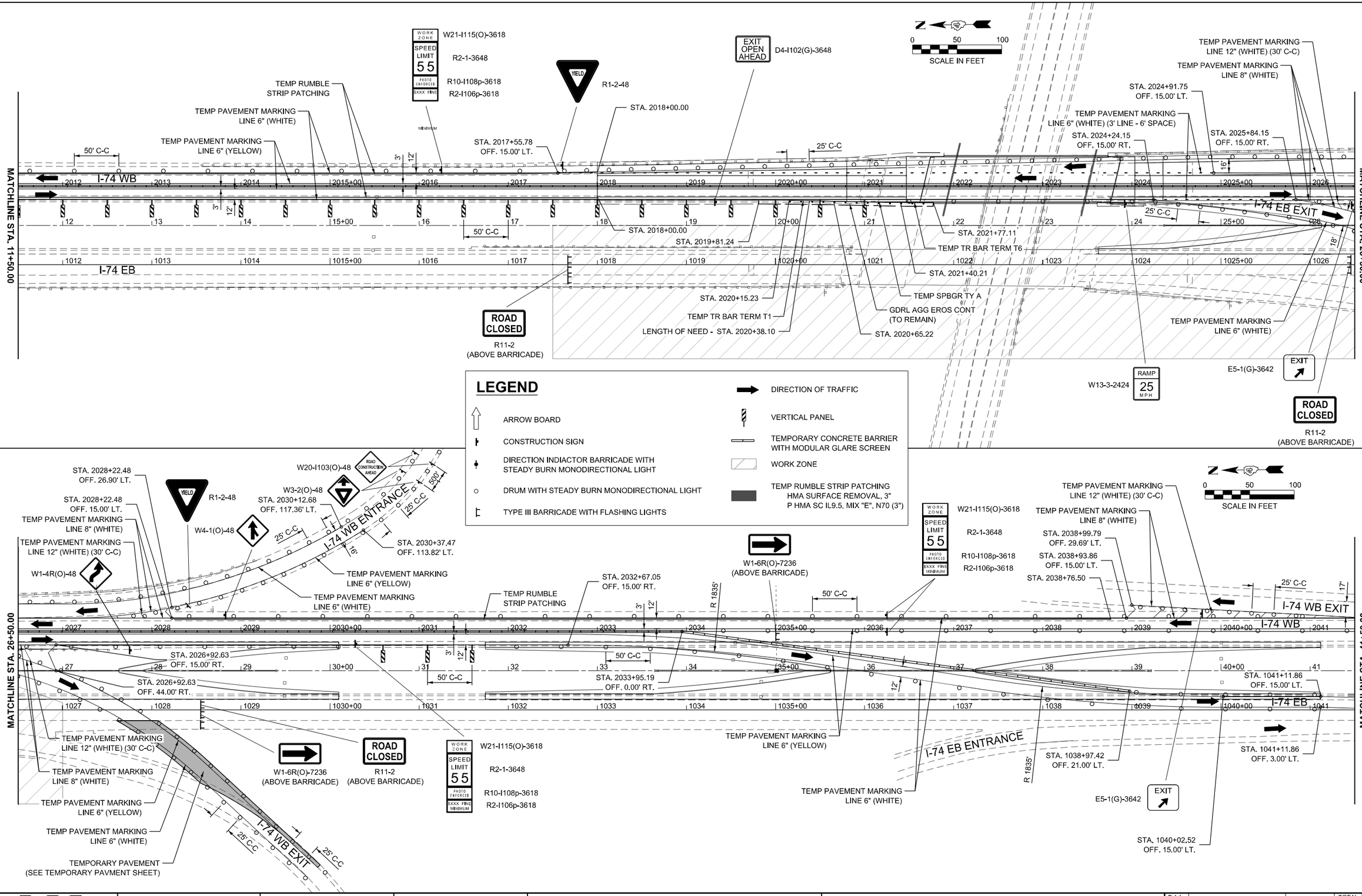
	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 – STAGE 2

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. -18+50.00 TO STA. 11+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	42
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- ARROW BOARD
- CONSTRUCTION SIGN
- DIRECTION INDIACTOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER WITH MODULAR GLARE SCREEN
- WORK ZONE
- TEMP RUMBLE STRIP PATCHING HMA SURFACE REMOVAL, 3" P HMA SC IL9.5, MIX "E", N70 (3")

VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 – STAGE 2

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 11+50.00 TO STA. 41+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	43
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

MODEL: ExCL_MOT_Sheets - MOT-02 Plan 3 [Sheet]
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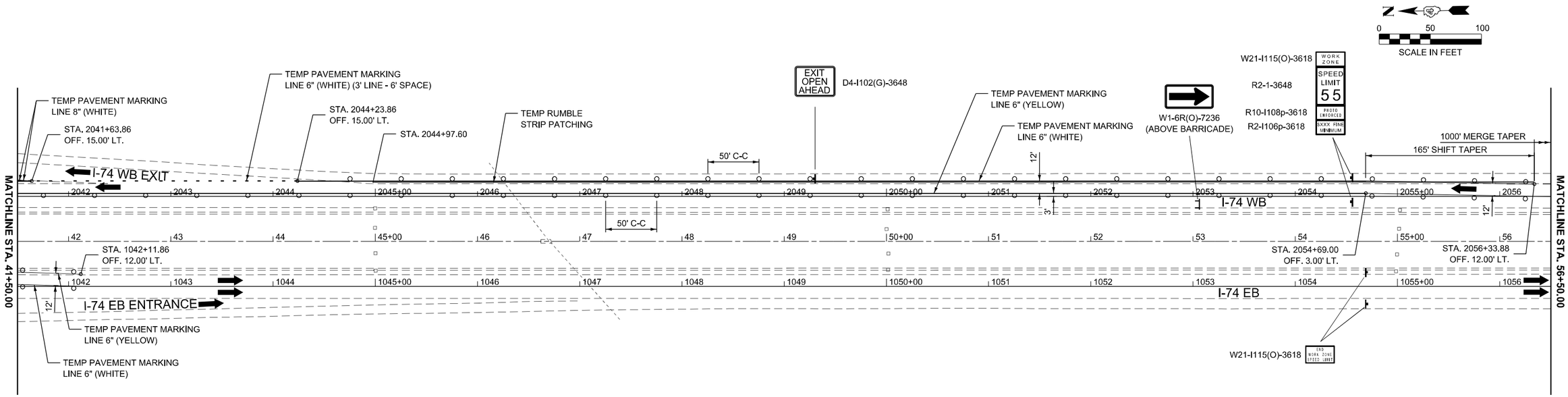
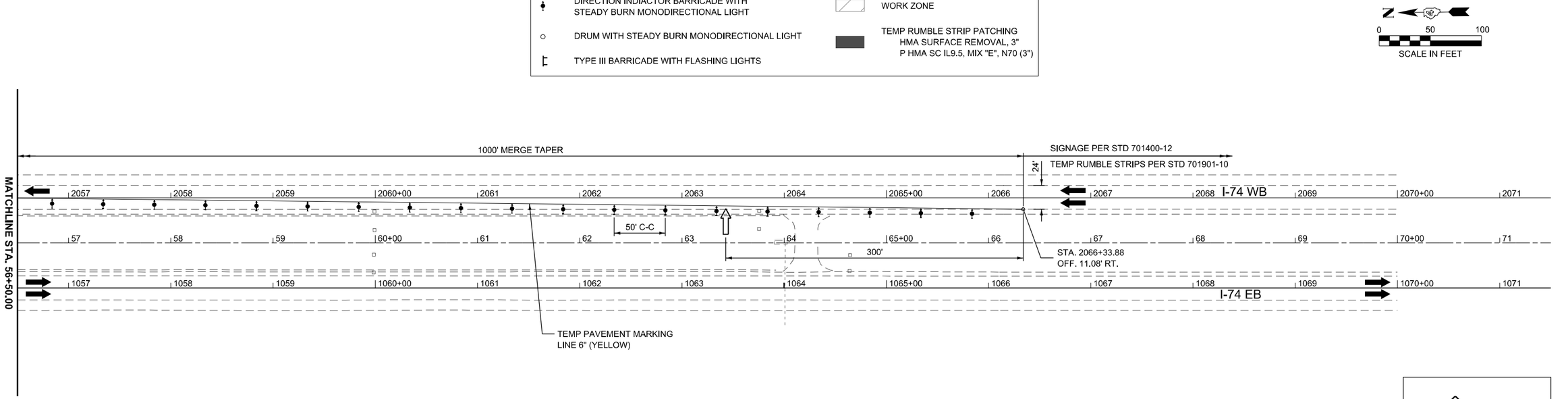


LEGEND

- ARROW BOARD
- CONSTRUCTION SIGN
- DIRECTION INDIACTOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER WITH MODULAR GLARE SCREEN
- WORK ZONE
- TEMP RUMBLE STRIP PATCHING HMA SURFACE REMOVAL, 3" P HMA SC IL9.5, MIX "E", N70 (3")



W6-3(O)-4848

NEXT 2 MILES W7-3aP(O)-4848

I-74 WB: PLACE SIGN 1 MILE IN ADVANCE OF CROSS-OVER

VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
I–74 – STAGE 2

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 41+50.00 | TO STA. 71+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	44
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

MODEL: ExCL_MOT_Sheets - MOT-02 Plan 5 [Sheet]
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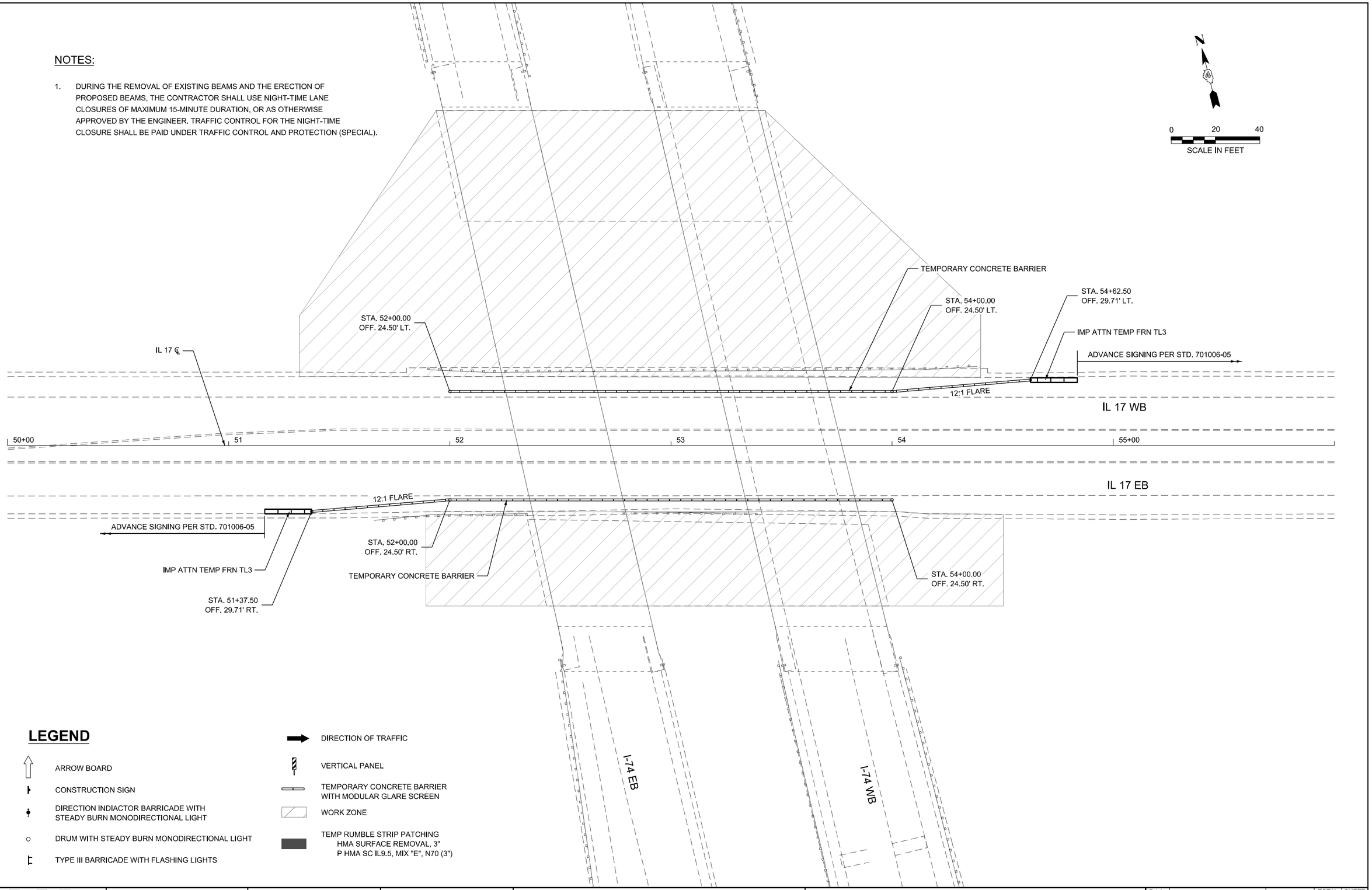
NOTES:

1. DURING THE REMOVAL OF EXISTING BEAMS AND THE ERECTION OF PROPOSED BEAMS, THE CONTRACTOR SHALL USE NIGHT-TIME LANE CLOSURES OF MAXIMUM 15-MINUTE DURATION, OR AS OTHERWISE APPROVED BY THE ENGINEER. TRAFFIC CONTROL FOR THE NIGHT-TIME CLOSURE SHALL BE PAID UNDER TRAFFIC CONTROL AND PROTECTION (SPECIAL).



LEGEND

- ARROW BOARD
- CONSTRUCTION SIGN
- DIRECTION INDIACTOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER WITH MODULAR GLARE SCREEN
- WORK ZONE
- TEMP RUMBLE STRIP PATCHING HMA SURFACE REMOVAL, 3" P HMA SC IL9.5, MIX "E", N70 (3")

MODEL: IL17 - MOT-IL-17-01 Plan 1 [Sheet]
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VEENSTRA & KIMM INC.

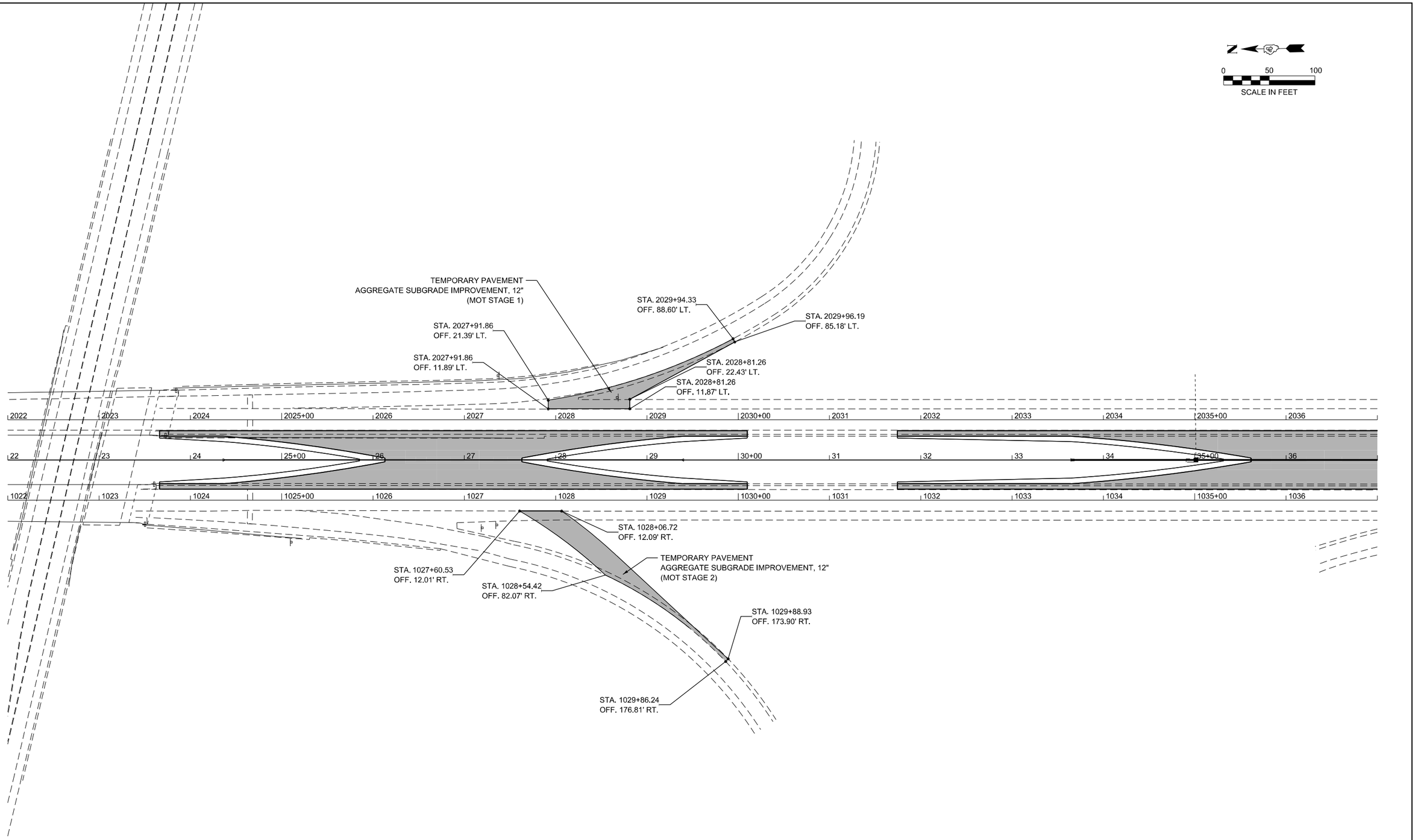
	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
IL 17

SCALE: 1"=20' | SHEET 9 OF 10 SHEETS | STA. 50+00.00 | TO STA. 56+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	45
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



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VEENSTRA & KIMM INC.

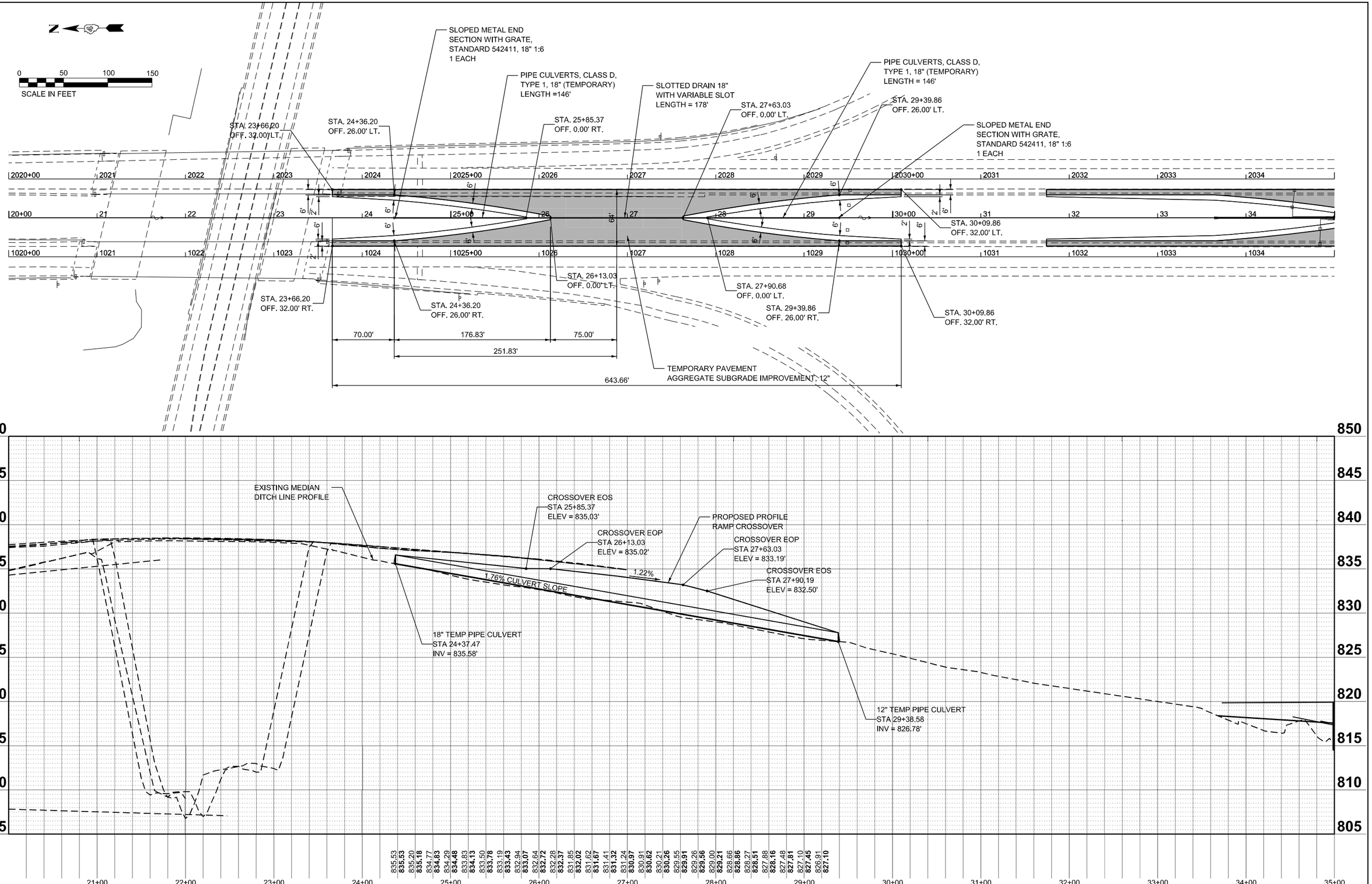
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
TEMPORARY PAVEMENT

SCALE: | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	46
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



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VEENSTRA & KIMM INC.

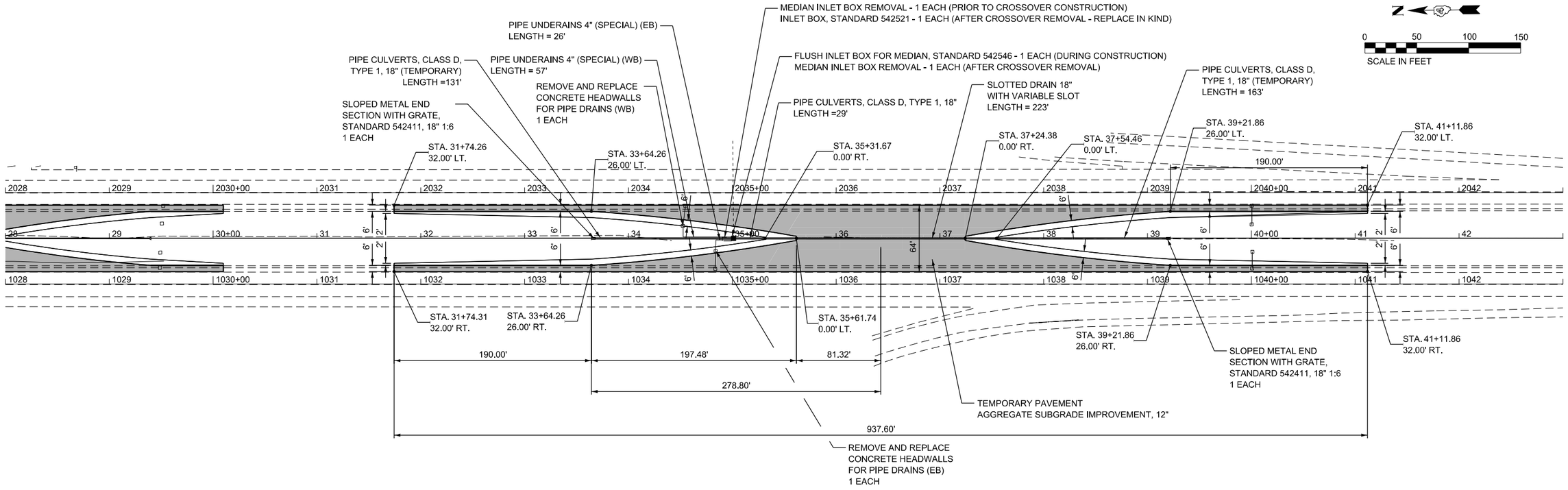
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSSOVER PLAN AND PROFILE
WEST CROSSOVER

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	47
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



MODEL: I74 - EastCrossOver-Plan[Sheet]
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VEENSTRA & KIMM INC.

DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

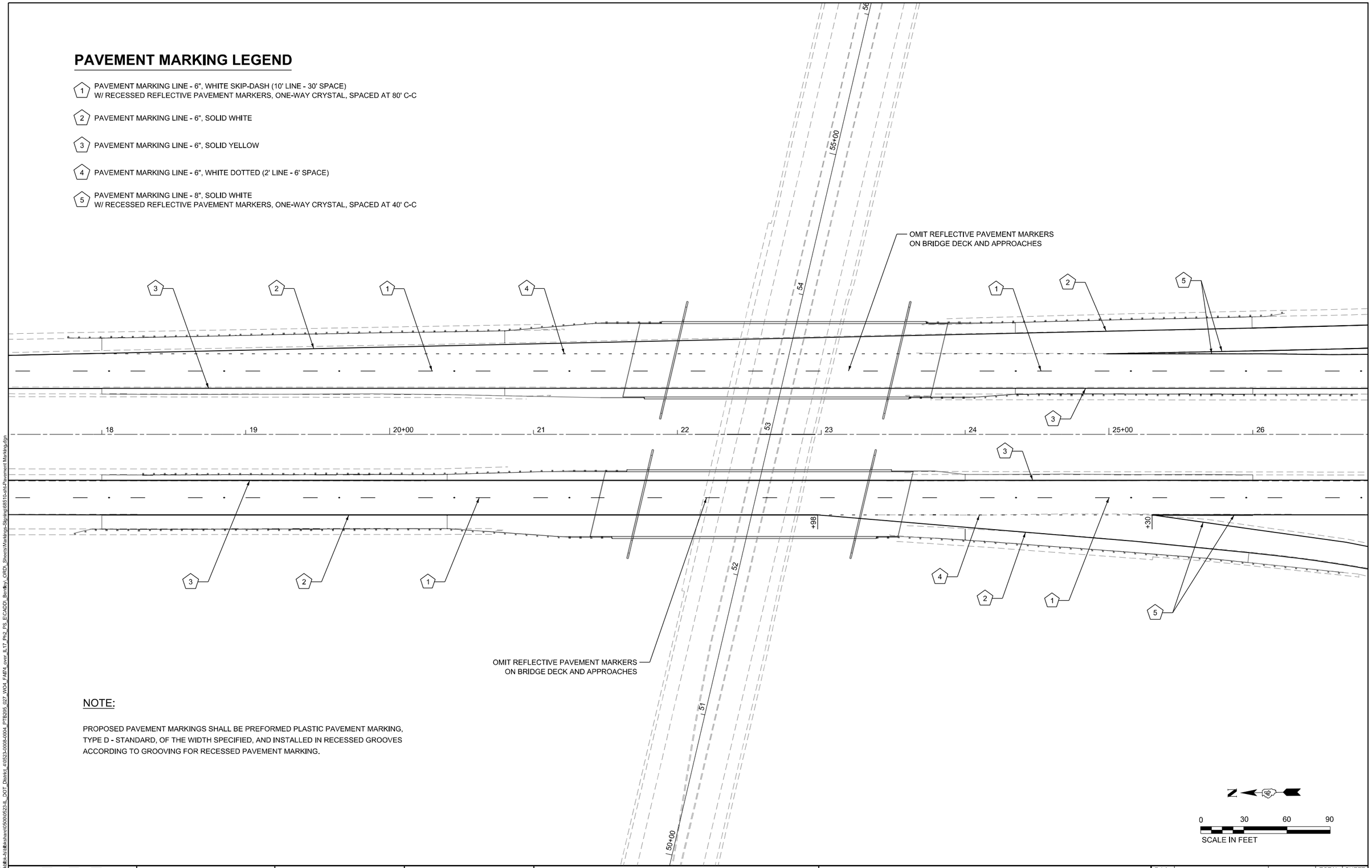
CROSSOVER PLAN AND PROFILE
EAST CROSSOVER

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	48
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING LINE - 6", WHITE SKIP-DASH (10' LINE - 30' SPACE)
   W/ RECESSED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL, SPACED AT 80' C-C
2. PAVEMENT MARKING LINE - 6", SOLID WHITE
3. PAVEMENT MARKING LINE - 6", SOLID YELLOW
4. PAVEMENT MARKING LINE - 6", WHITE DOTTED (2' LINE - 6' SPACE)
5. PAVEMENT MARKING LINE - 8", SOLID WHITE
   W/ RECESSED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL, SPACED AT 40' C-C



NOTE:

PROPOSED PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD, OF THE WIDTH SPECIFIED, AND INSTALLED IN RECESSED GROOVES ACCORDING TO GROOVING FOR RECESSED PAVEMENT MARKING.

MODEL: Default
FILE NAME: \\vkdfs-fs\Shared\5500\0523-IL_DOT_District_4\0523-0008-0004_PTB205_027_WO4_FAP74_over_IL17_PH2_PS_E\CADD_Bentley_ORD_Sheets\Markings-Signing\68510-sht-Pavement Markings.dgn

VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

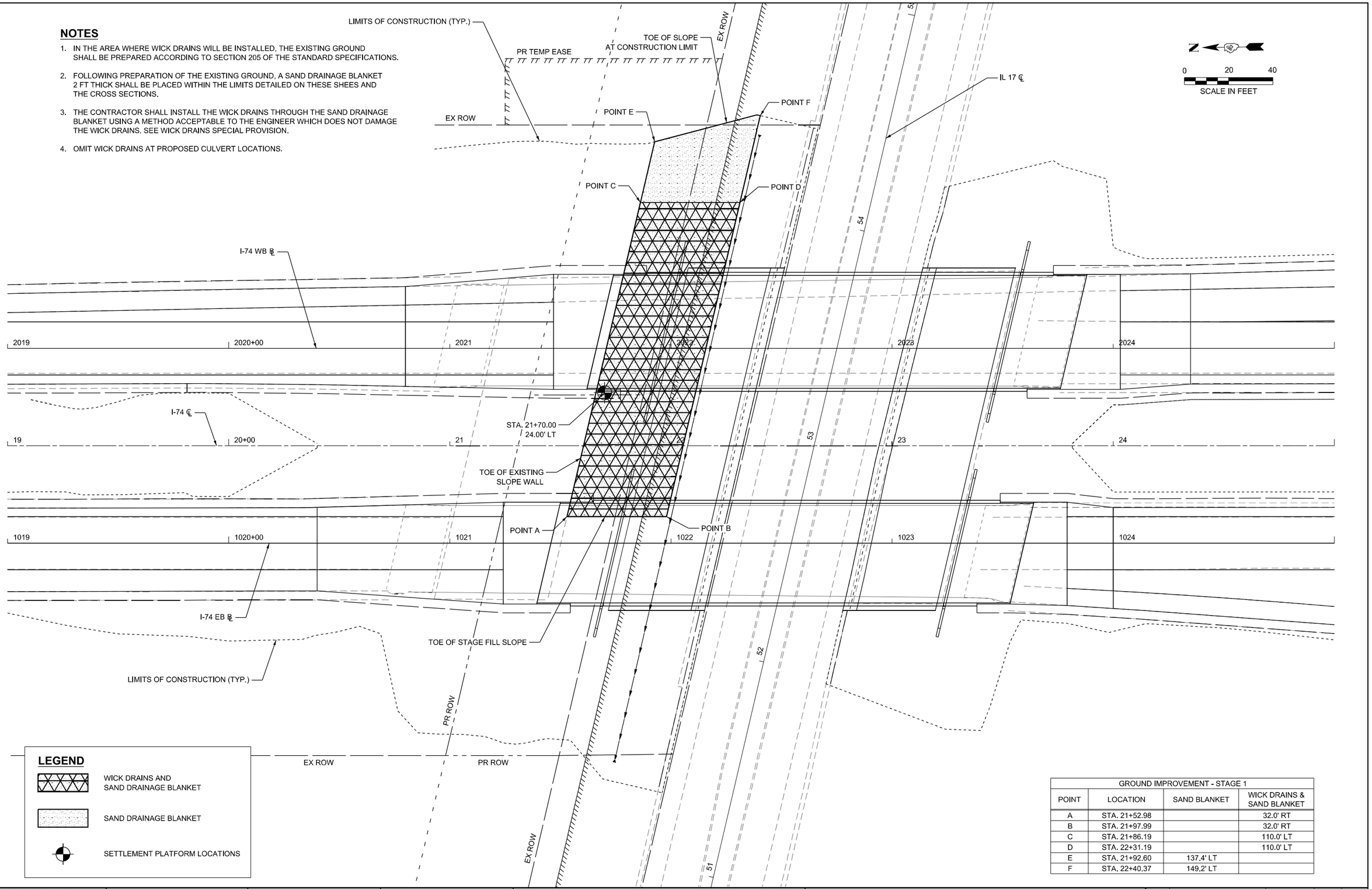
PAVEMENT MARKING PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	49
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

NOTES

1. IN THE AREA WHERE WICK DRAINS WILL BE INSTALLED, THE EXISTING GROUND SHALL BE PREPARED ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATIONS.
2. FOLLOWING PREPARATION OF THE EXISTING GROUND, A SAND DRAINAGE BLANKET 2 FT THICK SHALL BE PLACED WITHIN THE LIMITS DETAILED ON THESE SHEES AND THE CROSS SECTIONS.
3. THE CONTRACTOR SHALL INSTALL THE WICK DRAINS THROUGH THE SAND DRAINAGE BLANKET USING A METHOD ACCEPTABLE TO THE ENGINEER WHICH DOES NOT DAMAGE THE WICK DRAINS. SEE WICK DRAINS SPECIAL PROVISION.
4. OMIT WICK DRAINS AT PROPOSED CULVERT LOCATIONS.



LEGEND

- WICK DRAINS AND SAND DRAINAGE BLANKET
- SAND DRAINAGE BLANKET
- SETTLEMENT PLATFORM LOCATIONS

GROUND IMPROVEMENT - STAGE 1			
POINT	LOCATION	SAND BLANKET	WICK DRAINS & SAND BLANKET
A	STA. 21+52.98		32.0' RT
B	STA. 21+97.99		32.0' RT
C	STA. 21+86.19		110.0' LT
D	STA. 22+31.19		110.0' LT
E	STA. 21+92.60	137.4' LT	
F	STA. 22+40.37	149.2' LT	

MODEL: Ground-Imp'_Plan-01 [Sheet]
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VEENSTRA & KIMM INC.

DESIGNED	PMO	REVISED	-
DRAWN	PMO	REVISED	-
CHECKED	DMS	REVISED	-
DATE	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

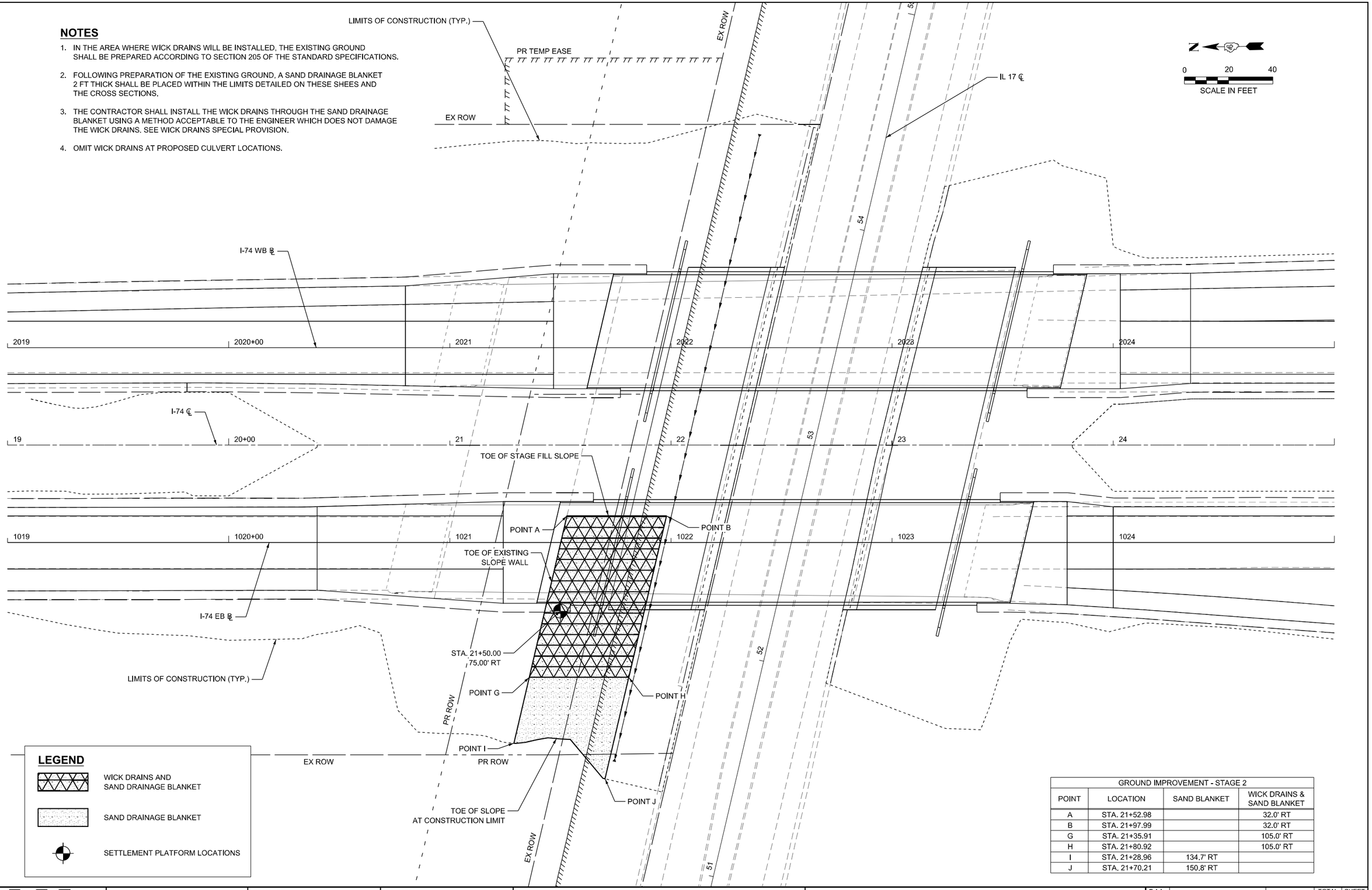
GROUND IMPROVEMENT PLAN
STAGE 1

SCALE: 1"=20' | SHEET 1 OF 3 SHEETS | STA. 19+00.00 | TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	50
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

NOTES

1. IN THE AREA WHERE WICK DRAINS WILL BE INSTALLED, THE EXISTING GROUND SHALL BE PREPARED ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATIONS.
2. FOLLOWING PREPARATION OF THE EXISTING GROUND, A SAND DRAINAGE BLANKET 2 FT THICK SHALL BE PLACED WITHIN THE LIMITS DETAILED ON THESE SHEES AND THE CROSS SECTIONS.
3. THE CONTRACTOR SHALL INSTALL THE WICK DRAINS THROUGH THE SAND DRAINAGE BLANKET USING A METHOD ACCEPTABLE TO THE ENGINEER WHICH DOES NOT DAMAGE THE WICK DRAINS. SEE WICK DRAINS SPECIAL PROVISION.
4. OMIT WICK DRAINS AT PROPOSED CULVERT LOCATIONS.



LEGEND

- WICK DRAINS AND SAND DRAINAGE BLANKET
- SAND DRAINAGE BLANKET
- SETTLEMENT PLATFORM LOCATIONS

GROUND IMPROVEMENT - STAGE 2			
POINT	LOCATION	SAND BLANKET	WICK DRAINS & SAND BLANKET
A	STA. 21+52.98		32.0' RT
B	STA. 21+97.99		32.0' RT
G	STA. 21+35.91		105.0' RT
H	STA. 21+80.92		105.0' RT
I	STA. 21+28.96	134.7' RT	
J	STA. 21+70.21	150.8' RT	

VEENSTRA & KIMM INC.

DESIGNED	PMO	REVISED	-
DRAWN	PMO	REVISED	-
CHECKED	DMS	REVISED	-
DATE	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GROUND IMPROVEMENT PLAN
STAGE 2

SCALE: 1"=20' | SHEET 2 OF 3 SHEETS | STA. 19+00.00 TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	51
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

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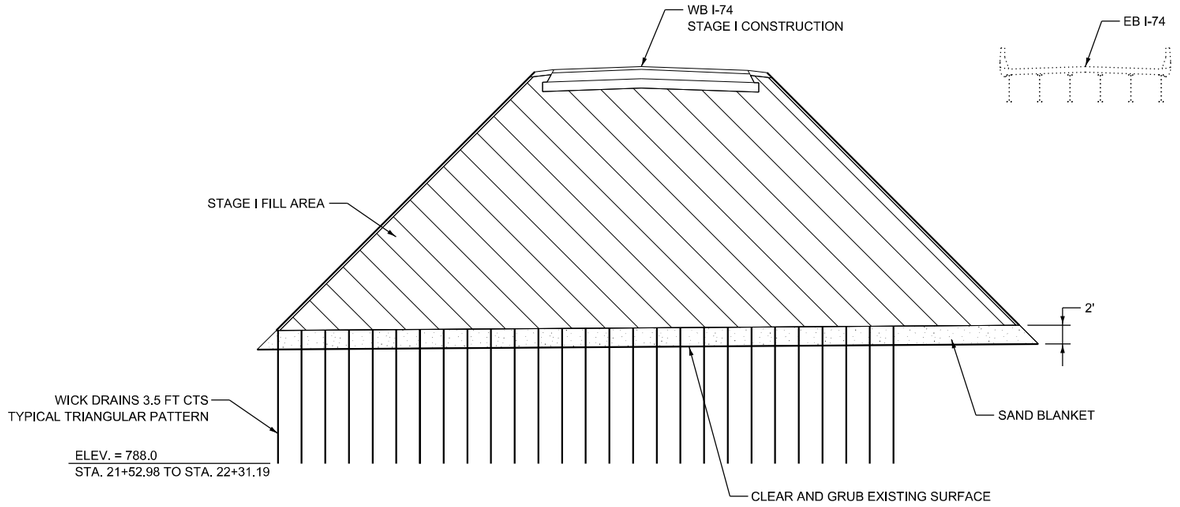
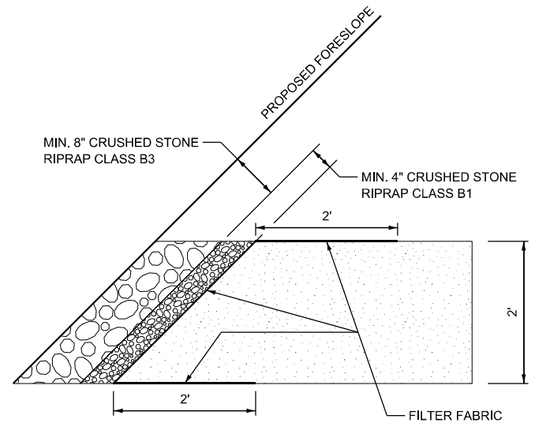


STAGE 1 DETAIL - SAND DRAINAGE BLANKET - CROSS SECTION

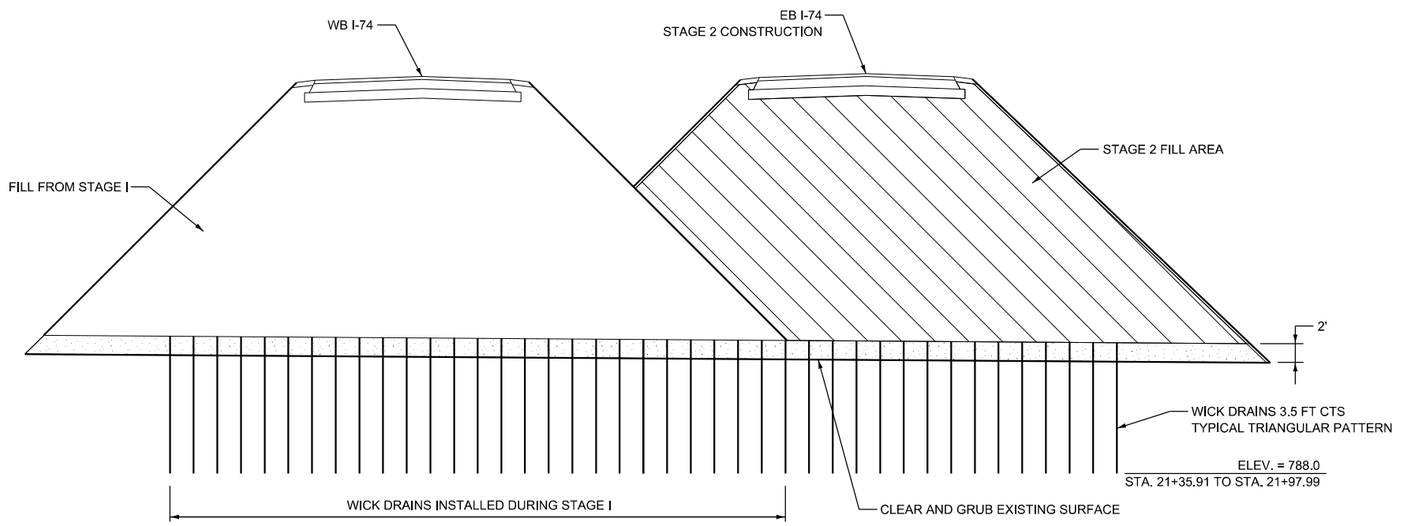
RECOMMENDED SETTLEMENT PLATFORM LOCATIONS				
LOCATION NUMBER	STATION	OFFSET	NEAREST BORING	APPROX. BASE ELEV.
1	21+70	24' LT	B2	809.0
2	21+50	75' RT	B4	809.0

BILL OF MATERIAL

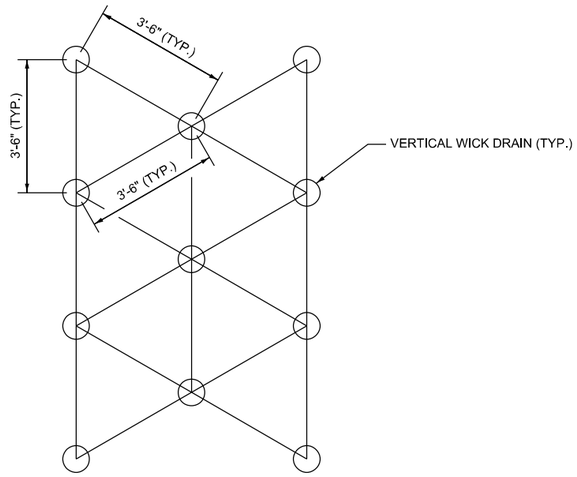
ITEM	UNIT	TOTAL
WICK DRAINS	FEET	19,656
SAND DRAINAGE BLANKET	CU YD	937
SETTLEMENT PLATFORMS	EACH	2



DRAINAGE BLANKET PROTECTION



STAGE 2 DETAIL - SAND DRAINAGE BLANKET - CROSS SECTION



WICK DRAIN PATTERN

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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

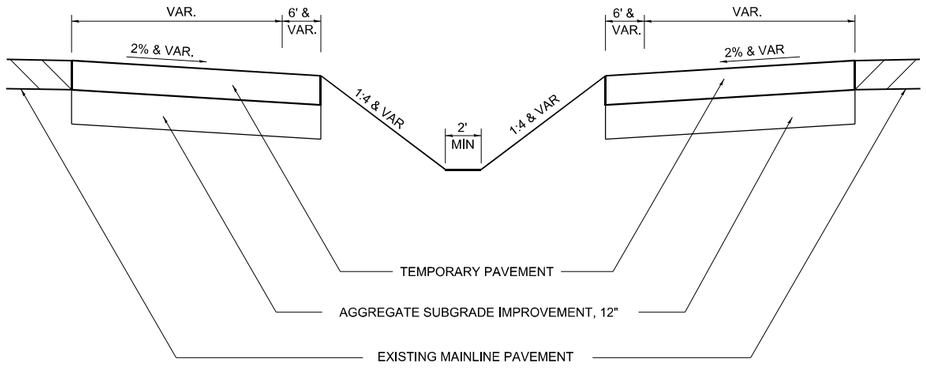
GROUND IMPROVEMENT DETAILS

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

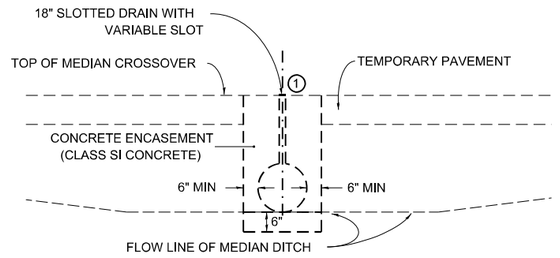
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	52
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

64' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)



TYPICAL SECTION



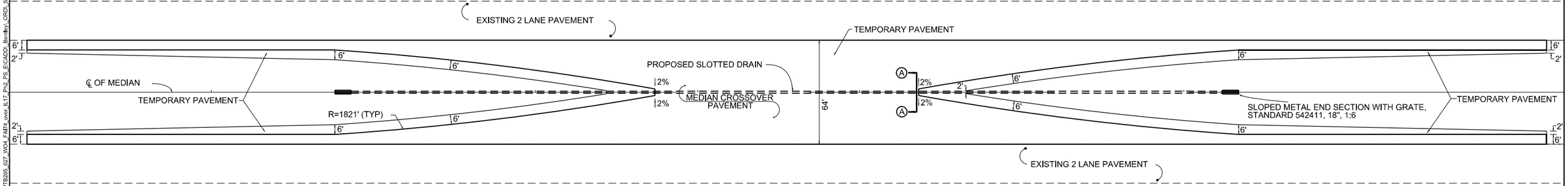
SECTION A-A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)

① DUCT TAPE OR WOOD BLOCKS SHALL BE USED TO COVER SLOTTED DRAIN DURING CONSTRUCTION OF CROSSOVER PAVING

NOTES:

1. CONSTRUCTION OF MEDIAN CROSSOVER SHALL CONFORM TO THE REQUIREMENT OF CURRENT STANDARD SPECIFICATIONS.
2. SLOTTED DRAIN SHALL BE CONSTRUCTED OF 14 OR 16 GAUGE CORRUGATED METAL ROADWAY PIPE MODIFIED TO ACCOMMODATE SLOTTED DRAIN AS SHOWN.
3. THE CROSSOVER IS DESIGNED USING A 55MPH DESIGN SPEED.
4. THE END OF THE METAL END SECTION SHALL BE SET WHERE A MINIMUM 1:6 FRONT SLOPE CAN BE CONSTRUCTED FROM EACH SIDE OF THE END SECTION TO THE EDGE OF THE SHOULDER.
5. THE REMOVAL OF TEMPORARY PIPE CULVERTS AND END SECTIONS USED FOR CROSSOVER DRAINAGE SHALL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS, CLASS D, TYPE 1 (TEMPORARY). SLOTTED DRAIN REMOVAL SHALL BE INCLUDED IN THE COST OF TEMPORARY PAVEMENT REMOVAL.
6. SEE SPECIAL PROVISION FOR TEMPORARY PAVEMENT, TEMPORARY PAVEMENT REMOVAL, AND SLOTTED DRAIN.
7. IF PCC IS THE CHOSEN MATERIAL FOR THE TEMPORARY PAVEMENT, EXCAVATION AND SUBBASE QUANTITIES SHALL BE ADJUSTED ACCORDINGLY.
8. WHEN THE MEDIAN CROSSOVER IS TO BE REMOVED, THE CONTRACTOR SHALL BE REQUIRED TO SAW FULL-DEPTH ALONG THE SHOULDER LINE 8' FROM EDGE OF PAVEMENT. THE 8' TO THE EDGE OF PAVEMENT SHALL REMAIN IN PLACE AND BE USED AS SHOULDERS. THE COST OF SAWING SHALL BE INCLUDED IN THE COST OF TEMPORARY PAVEMENT REMOVAL.
9. TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL.



TYPICAL PLAN

(NOT TO SCALE)

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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL
TWO LANE MEDIAN CROSSOVER

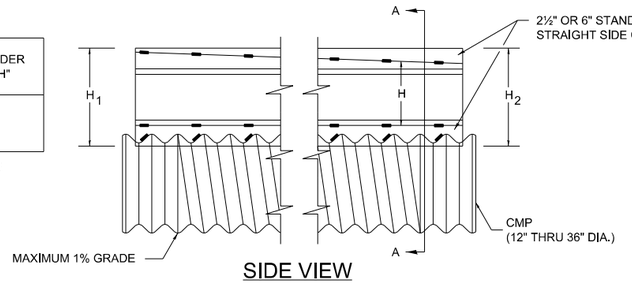
SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	53
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

SLOTTED DRAIN PIPE

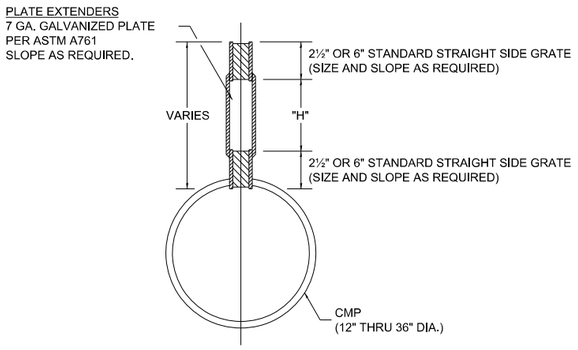
LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 * 750 PSI CONCRETE	19"

* 125 PSI TIRE PRESSURE



SIDE VIEW

DETAIL WITH VARIABLE HEIGHT GRATE



SECTION A-A

GENERAL

Class SI Concrete shall be used throughout.
This specification covers Slottted Drain used for the removal of water as shown on the plans.
The Slotted Drain shall be Corrugated Pipe Culvert with Integral Slotted Drains.
Before placing the concrete adjacent to the pipe, the slot shall be covered by either thin, flat metal sheeting or by a board notched to fit over the grate bars. This covering must fit closely in the slot to prevent entry of concrete into the pipe. Paving over the slotted drain will then be one continuous operation over the protected drain. The protection for the drain slot shall then be removed. The pipe shall drain into the side of the inlet. The opening where the slot is removed shall be covered to prevent concrete from entering the pipe.
The Corrugated Steel Pipe used in the Slotted Drain shall meet the requirements of AASHTO M36/ASTM A760.
The CMP shall be ALUMINIZED STEEL Type 2.
The diameter shall be as shown on the plans.
Steel grating shall meet the galvanizing requirements of AASHTO M111.
This work will be paid for at the contract unit price per foot for SLOTTED DRAIN of the pipe diameter specified WITH VARIABLE SLOT,or SLOTTED DRAIN, of the pipe diameter specified, WITH 6" SLOT, and shall include concrete and grating for depth specified on plans.
Use approved end cap to prevent concrete entry into the pipe during gutter construction on the upstream end of the pipe.

CONNECTIONS

The Corrugated Steel Pipe shall have a minimum of two rerolled annular ends.
The Slotted Drain bands shall be modified HUGGER Bands to secure the pipe and prevent infiltration of the backfill.
When the Slotted Drain is banded together, the adjacent grates shall have a maximum 3" gap.

GRATES

The grates shall be manufactured from ASTM A670, Grade 36 steel. The spacers and bearing bars (sides) shall be 3/16 " material ±0.008".
The spacers shall be on 6" centers and welded on both sides to each bearing bar (sides) with four (4) 1- 1/4 " long 3/16 " fillet welds on each side of the bearing bar.
The plate extender shall be 7 gage steel meeting ASTM A761.
The engineer may call for tensile strength tests on the grate if the grate is not in compliance with the above spacer specifications. If tensile strength tests are called for, minimum results for an in-place spacer pulled perpendicular to the bearing bar shall be:
T= 12,000 pounds for 2- 1/2 " grate
T= 15,000 pounds for 6" grate

GALVANIZING

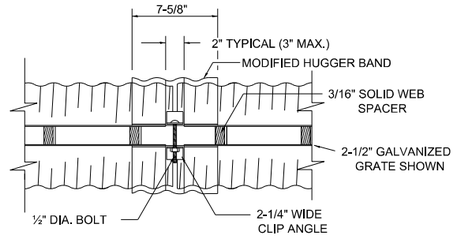
The grate and plate extenders shall be galvanized in accordance with ASTM A123 except with a 2 oz. galvanized coating.

GRATE ATTACHED TO CSP

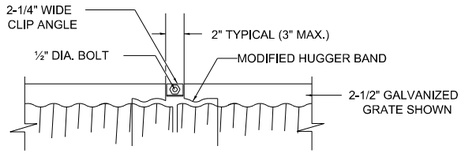
The grate shall be fillet welded with a minimum weld 1" long to the CSP on each side of the grate at every other corrugation.

TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTHS

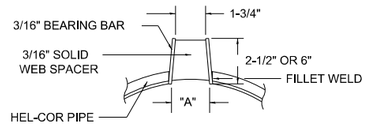
Vertical Bow= ± 3/8 "
Horizontal Bow= ± 5/8 "
Twist= ± 1/2 "



TOP VIEW

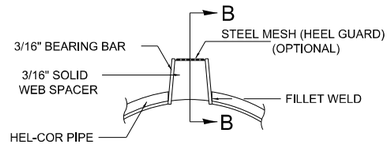


SIDE VIEW



SECTION A-A

STANDARD DETAIL



SECTION A-A

DETAIL WITH MESH

(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

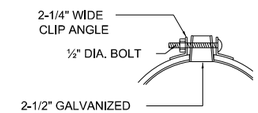
STANDARD SIZES						
GAGE OF PIPE	DIAMETER OF PIPE					
	12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X
14	X	X	X	X	X	X
12	N.A.	N.A.	N.A.	N.A.	X	X

GRATE TYPE		"A"
VERT	2-1/2"	1-3/4"
VERT	6"	1-3/4"
TRAP	2-1/2"	2-1/4"
TRAP	6"	3"

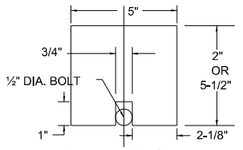
VERT = VERTICAL
TRAP = TRAPIZOIDAL

SLOTTED DRAIN NOTES

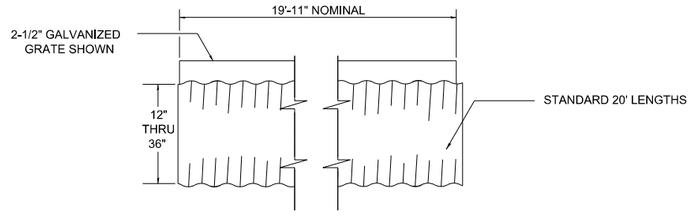
1. GRATING IS AVAILABLE IN DEPTHS OF 2-1/2" AND 6".
2. VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
3. FOR 6" VERTICAL & TRAPIZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
5. DIMENSIONS FOR H_1 AND H_2 AS REQUIRED.
6. H_1 AND H_2 MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.



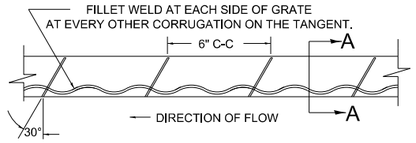
END VIEW



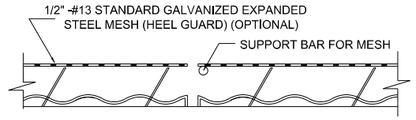
GAP PLATE (OPTIONAL)
MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING.



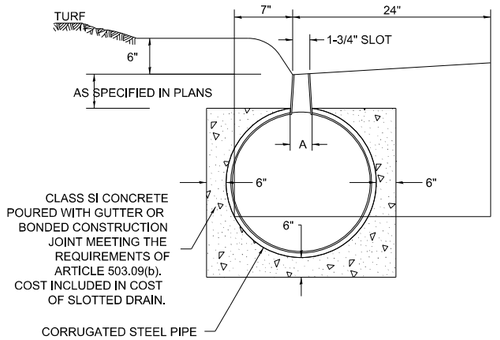
TYPICAL PIPE SECTION



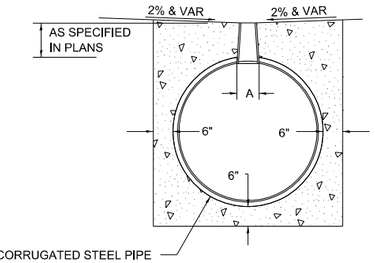
GRATE WELDING DETAIL



SECTION B-B



DETAIL FOR CURB & GUTTER



DETAIL FOR CROSSOVERS, DRIVEWAYS, OR PARKING LOTS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

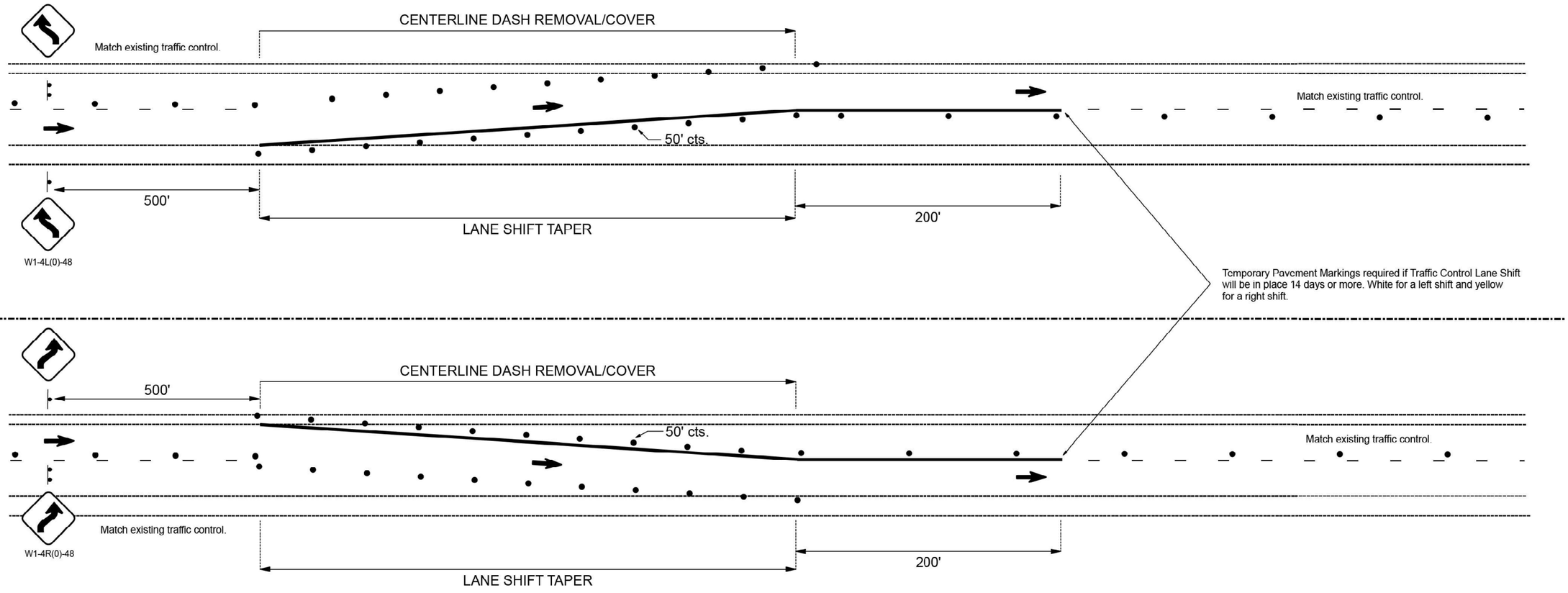
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL
SLOTTED DRAIN PIPE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	54
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC CONTROL LANE SHIFT TYPICAL



LANE SHIFT TAPER LENGTH

NORMAL POSTED SPEED LIMIT	LANE SHIFT TAPER
65 MPH OR GREATER	450 FT.
55 MPH	350 FT.
50 MPH	300 FT.
45 MPH OR LESS	275 FT.

SYMBOLS

- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT (LIGHT IN TAPERS ONLY)
- TEMPORARY SIGN STAND MOUNT- CLOSED LANE/ LESS THAN 14 DAYS
- POST MOUNTED SIGN STAND MOUNT- GREATER THAN 14 DAYS

GENERAL NOTES

TO BE USED WHEN FIELD CONDITIONS WARRANT THE NEED FOR A LANE SHIFT DUE TO ADJACENT CONSTRUCTION PROJECTS OR OTHER MOTORIST/ WORKER SAFETY NEEDS.

THE RESIDENT ENGINEER MUST APPROVE THE USE OF THIS DETAIL.

CENTERLINE DASHES SHALL BE COVERED/REMOVED IF LANE SHIFT WILL BE IN PLACE GREATER THAN 24 HOURS.

DEVICES IN LANE SHIFT SHALL HAVE A STEADY BURN MONO-DIRECTIONAL LIGHT.

TC LANE SHIFT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS TRAFFIC CONTROL PAY ITEMS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 3/ DISTRICT 4
TRAFFIC CONTROL LANE SHIFT TYPICAL

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VEENSTRA & KIMM INC.

DESIGNED - PMO	REVISED -	
DRAWN - PMO	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL
TRAFFIC CONTROL LANE SHIFT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	55
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

LEGEND

- EXISTING LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING CONTROLLER TO REMAIN
- T — PROPOSED TEMPORARY LIGHTING UNIT, 50FT WOOD POLE, CLASS 3, WITH 15FT M.A., LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H
- PROPOSED TEMPORARY WOOD POLE
- A — PROPOSED AERIAL CABLE, SIZE AS INDICATED
- PROPOSED UNIT DUCT, SIZE AS INDICATED
- PROPOSED GUY WIRE, ANCHOR

CABLE SCHEDULE

(A) AERIAL CABLE, 2-I/C NO. 6 ALUMINUM WITH MESSENGER WIRE

(B) UNIT DUCT, 600V, 2-IC NO. 6, I/C NO. 6 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

SCHEDULE OF QUANTITIES

PAY ITEM	DESCRIPTION	UNITS	QTY
X8410105	TEMPORARY LIGHTING SYSTEM	L-SUM	1

HIGHWAY STANDARDS

830026-01 TEMPORARY ROADWAY LIGHTING

INDEX OF SHEETS

E1 CABLE SCHEDULE, GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS, LEGEND, AND SUMMARY OF QUANTITIES

E2 PROPOSED TEMPORARY LIGHTING PLAN

E3 PROPOSED TEMPORARY LIGHTING PLAN

E4 WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE

TEMPORARY LIGHTING NOTES:

1. TEMPORARY WOOD POLES SHALL BE SET BACK A MINIMUM OF 30 FT. FROM THE EXISTING EDGE OF PAVEMENT AND OUTSIDE THE CLEAR ZONE.
2. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UNDERGROUND FACILITIES WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES FROM INACCURATE LOCATING.
5. ELECTRICAL WORK SHALL CONFORM TO NATIONAL, STATE, AND LOCAL CODES.
6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
7. GUY WIRE ANCHORS SHALL BE INSTALLED AS NECESSARY TO THE SATISFACTION OF THE RESIDENT ENGINEER.
8. POLE HEIGHT SHALL BE INCREASED AS NECESSARY TO MAINTAIN REQUIRED CLEARANCE OF AERIAL CABLE OVER THE ROADWAY.
9. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE TEMPORARY LIGHTING SYSTEM IN ITS ENTIRETY WITH THE EXCEPTION OF THE UNDERGROUND WIRING. THE LIGHTING CONTROLLERS AND LUMINAIRES WILL BECOME THE PROPERTY OF THE DEPARTMENT AND THE CONTRACTOR SHALL DELIVER THEM TO THE IDOT TRAFFIC BUILDING LOCATED AT 1025 WEST DETWEILLER DRIVE, PEORIA. THE CONTRACTOR SHALL NOTIFY TONY BRIDSON AT (309) 370-7522 A MINIMUM OF FORTY EIGHT HOURS PRIOR TO MATERIAL DELIVERY. THE CONTRACTOR SHALL DISPOSE OF ALL OTHER ITEMS.

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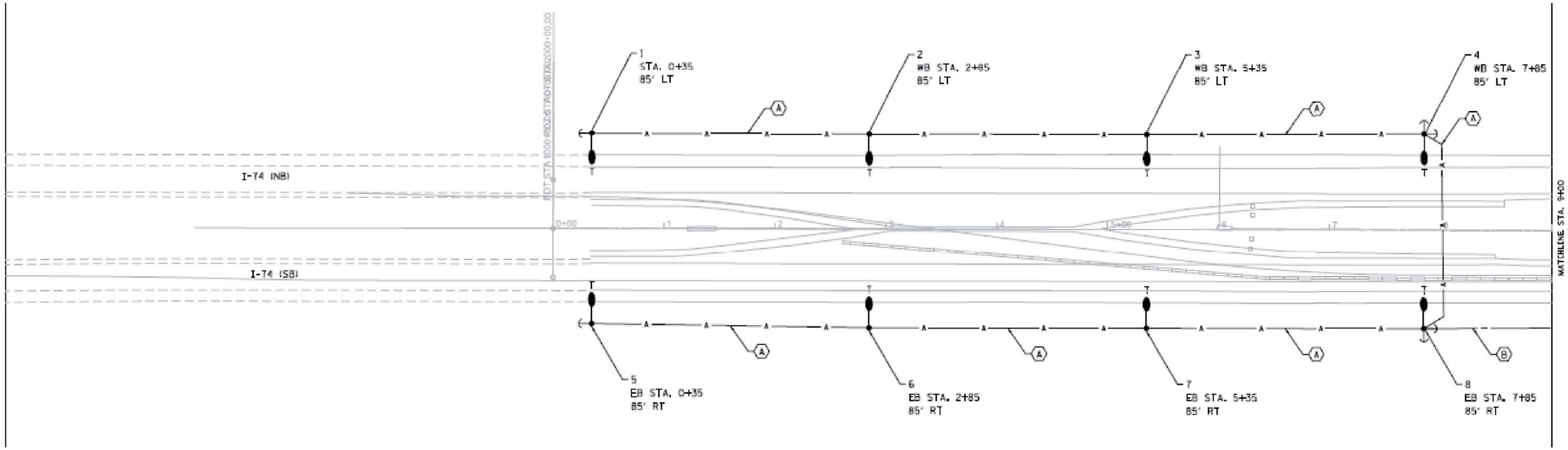
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

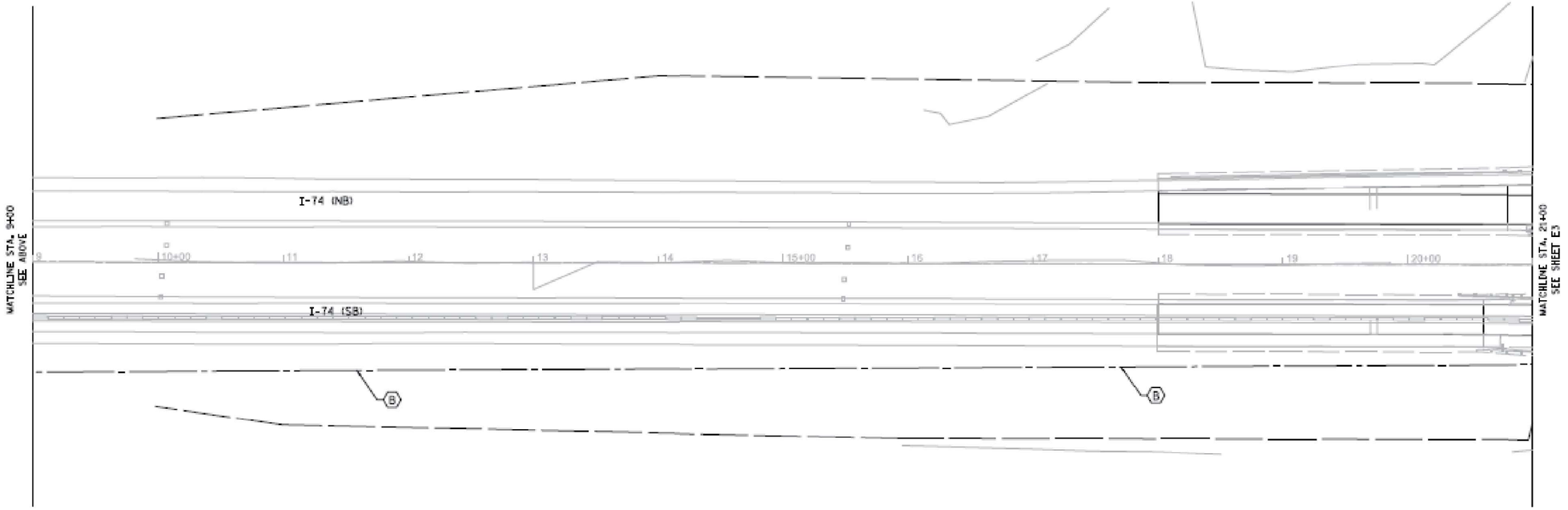
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

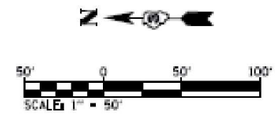
TEMPORARY CROSSOVER LIGHTING
I-74 OVER IL 17

SCALE: STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	56
		CONTRACT NO. 68510		
		ILLINOIS FED. AID PROJECT		







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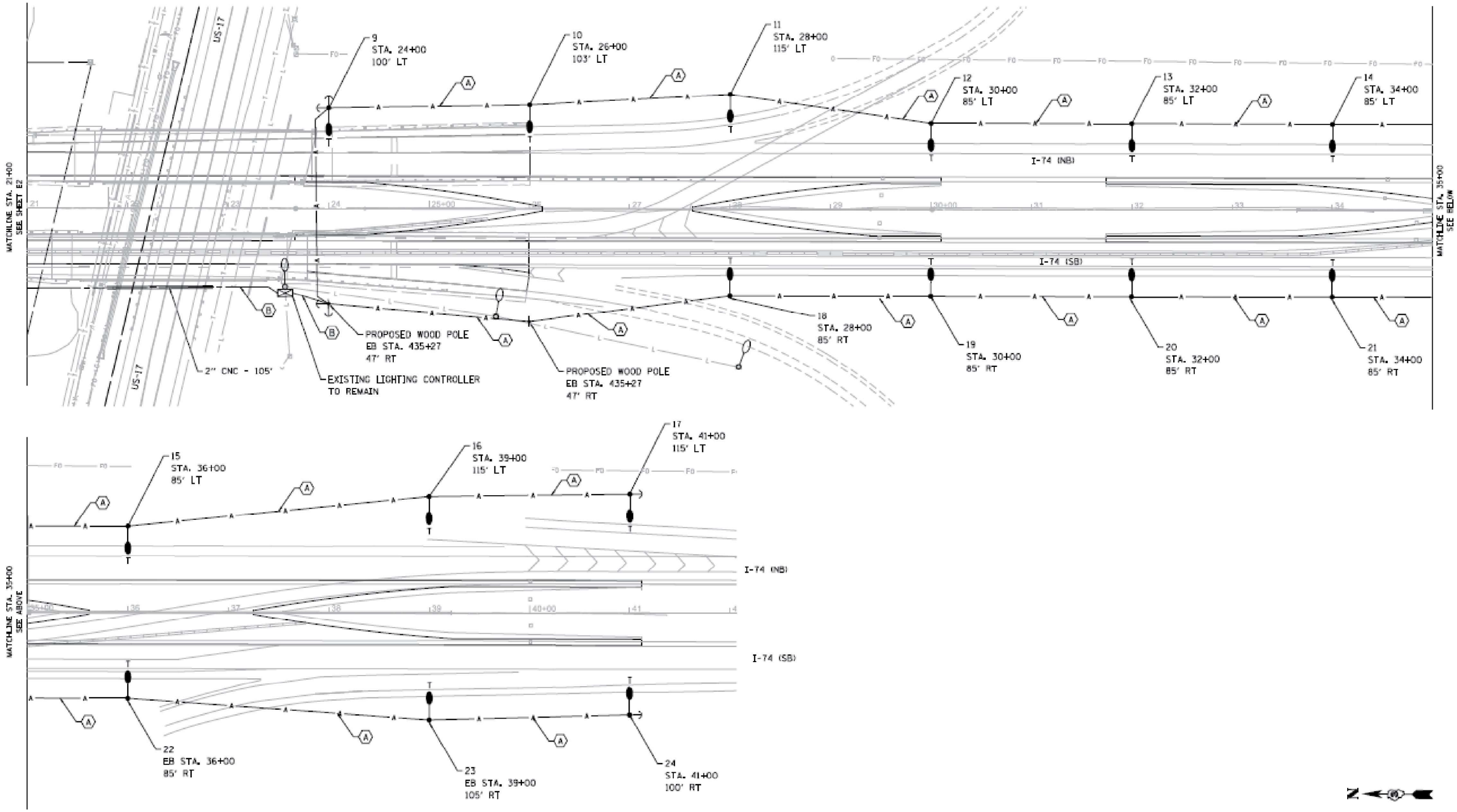
	PLOT DATE = $DATE$	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TEMPORARY LIGHTING PLAN
I-74 OVER IL 17 (WOODHULL)

SCALE: | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	57
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



E3

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		DRAWN -	REVISED -			74	(37-24HVBIBR	HENRY	127	58
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 68510		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: STA. TO STA.			ILLINOIS FED. AID PROJECT		

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
3/8/25	68510		HENRY

Marked Route Number	Municipality
I-74	WOODHULL

Roadway

Lane Width	#of Lanes	Median Width	Surface Classification	O-Zero Value
24 FT	2	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminaires (Highmast & Sign Lighting Only)
50 FT	1FT	30 FT	N/A

Luminaire

Description	Lateral Distribution	Transverse Distribution
ROADWAY, OUTPUT DESIGNATION G	TYPE III	MEDIUM

Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.700	U = 0	N/A	0-10V

Layout

Spacing (to Nearest 5 Ft)	Configuration (Opposite, Staggered, 1Sided, or Median)
250 FT	SINGLE SIDED

Performance

Average Illuminance, E_{ave}(fc)	Uniformity Ratio, E_{ave}/E_{min}
0.6	3.0

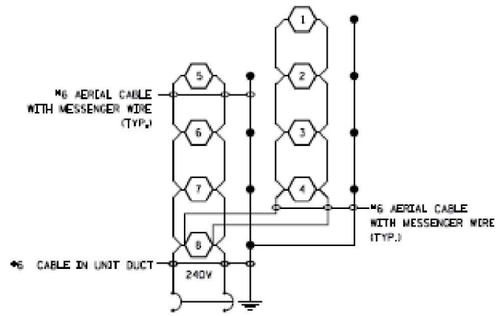
Average Luminance, L_{ave} (cd/m²)	Uniformity Ratio, L_{ave}/L_{min}	Uniformity Ratio, L_{max}/L_{min}	Veiling Luminance Ratio, L_v/L_{ave}
N/A	N/A	N/A	0.34

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E	Max. Vertical Illuminance at ROW, E
N/A	N/A	N/A

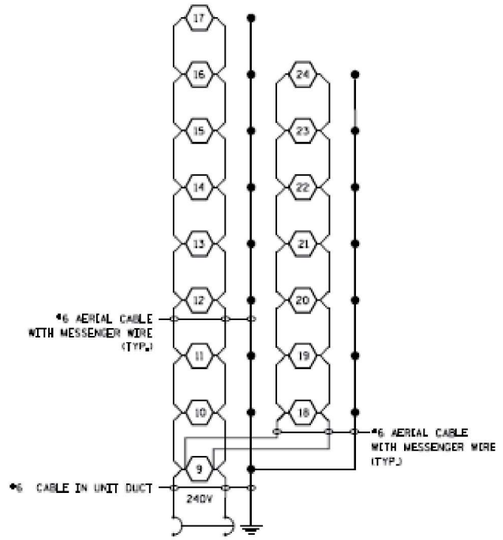
NOTES

1. SET BACK IS FROM EDGE OF PAVEMENT (WHITE LINE) EXCEPT FOR SIGN LUMINAIRES WHEN IT IS VERTICAL AND HORIZONTAL FROM THE SIGN TO THE LUMINAIRE.
2. LIGHTING CALCULATIONS SHALL BE PERFORMED WITH ALL LUMINAIRES ORIENTED TOWARD AND PERPENDICULAR TO THE ROADWAY.
3. TOTAL LIGHT LOSS FACTOR (LLF) = THE PRODUCT OF "LUMEN MAINTENANCE" (LDD)=0.9, "DIRT DEPRECIATION" (LDD)=0.8", AND "EQUIPMENT FACTORS" (EF)=0.95.
4. PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON GIVEN CONDITIONS ABOVE.
5. PHOTOMETRIC CALCULATIONS SHALL BE PERFORMED IN ONE DIRECTION ONLY.
6. ALL LED ROADWAY LUMINAIRES SHALL BE MOUNTED HORIZONTALLY.
7. COMPLIANCE WITH PERFORMANCE CRITERIA SHALL BE HELD TO ONE SIGNIFICANT DIGIT.
8. LUMINAIRE PERFORMANCE TABLE IS INTENDED TO DEFINE THE LUMINAIRE AND DOES NOT NECESSARILY REPRESENT SPECIFIC ROADWAY GEOMETRY, ARM LENGTH, SET BACK, OR MOUNTING HEIGHT.



2 POLE 30 AMP BREAKER
CKT "1"

I-80 CROSSOVER
LIGHTING CONTOLLER - 120/240V, 30AMP
SOUTH OF US-17



2 POLE 30 AMP BREAKER
CKT "2"

I-74 CROSSOVER
LIGHTING CONTOLLER - 120/240V, 30AMP
SOUTH OF US-17

LEGEND

TL — TEMPORARY LIGHTING UNIT.

GROUND ROD.

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

E4

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = $DATE$	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CROSSOVER LIGHTING
I-74 OVER IL 17

SCALE: | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	59
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24 HL	HENRY	10	2
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: 90% FED 10% ST Y030-1E		
95230200	ELECTRIC CONDUCTORS IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2200	2200		
95400215	UNIT DUCT, 2*8XLP, 1*8 XLP GROUND 3/4" POLYETHYLENE	FOOT	1990	1990		
95400315	UNIT DUCT, 2*6XLP, 1*6 XLP GROUND 1" POLYETHYLENE	FOOT	3900	3900		
95400515	UNIT DUCT, 2*2XLP, 1*2 XLP GROUND 1 1/4" POLYETHYLENE	FOOT	1835	1835		
95500100	TRENCH AND BACKFILL FOR ROADWAY LIGHTING	FOOT	7135	7135		
95600500	CONDUIT PUSHED, 2" DIA., INTERMEDIATE METAL	FOOT	370	370		
95700200	CONTROL INSTALLATION, TYPE CB RCS 60-240	EACH	1	1		
95800100	LIGHT POLE FOUNDATION	EACH	20	20		
96012400	LIGHT POLE, ALUMINUM, 45 FT. M.H., TENON MOUNT	EACH	18	18		
96013400	LIGHT POLE, ALUMINUM, 45 FT. M.H., TENON MOUNT - TWIN	EACH	2	2		
96206510	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	22	22		
96207300	UNDERPASS LUMINAIRE UNIT, 150 WATT HPS	EACH	2	2		

GENERAL NOTES

UTILITIES - LOCATIONS/INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines, and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown --- all utility locations shown on the plans are based on the approximate location supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

COMMITMENTS

There are no commitments for this project.

SUBMITTED 6-20-96
DIST. ENGR. OF PROGRAM DEVELOPMENT

EXAMINED 6-21-96
Roger C. Rocke
DIST. ENGR. OF PROJECT IMPLEMENTATION

EXAMINED 6/21/96
DIST. ENGR. OF OPERATIONS

REVIEWED FOR CORRELATION WITH APPROVED DESIGN REPORT, POLICIES, AND ENVIRONMENTAL ASSESSMENT

DATE 6-20-96
Dist. Studies & Plans Engineer

FOR INFORMATION ONLY

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		DRAWN -	REVISED -
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	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
I-74 OVER IL 17

SCALE: STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	60
		CONTRACT NO. 68540		
	ILLINOIS	FED. AID PROJECT		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HL	HENRY	10	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

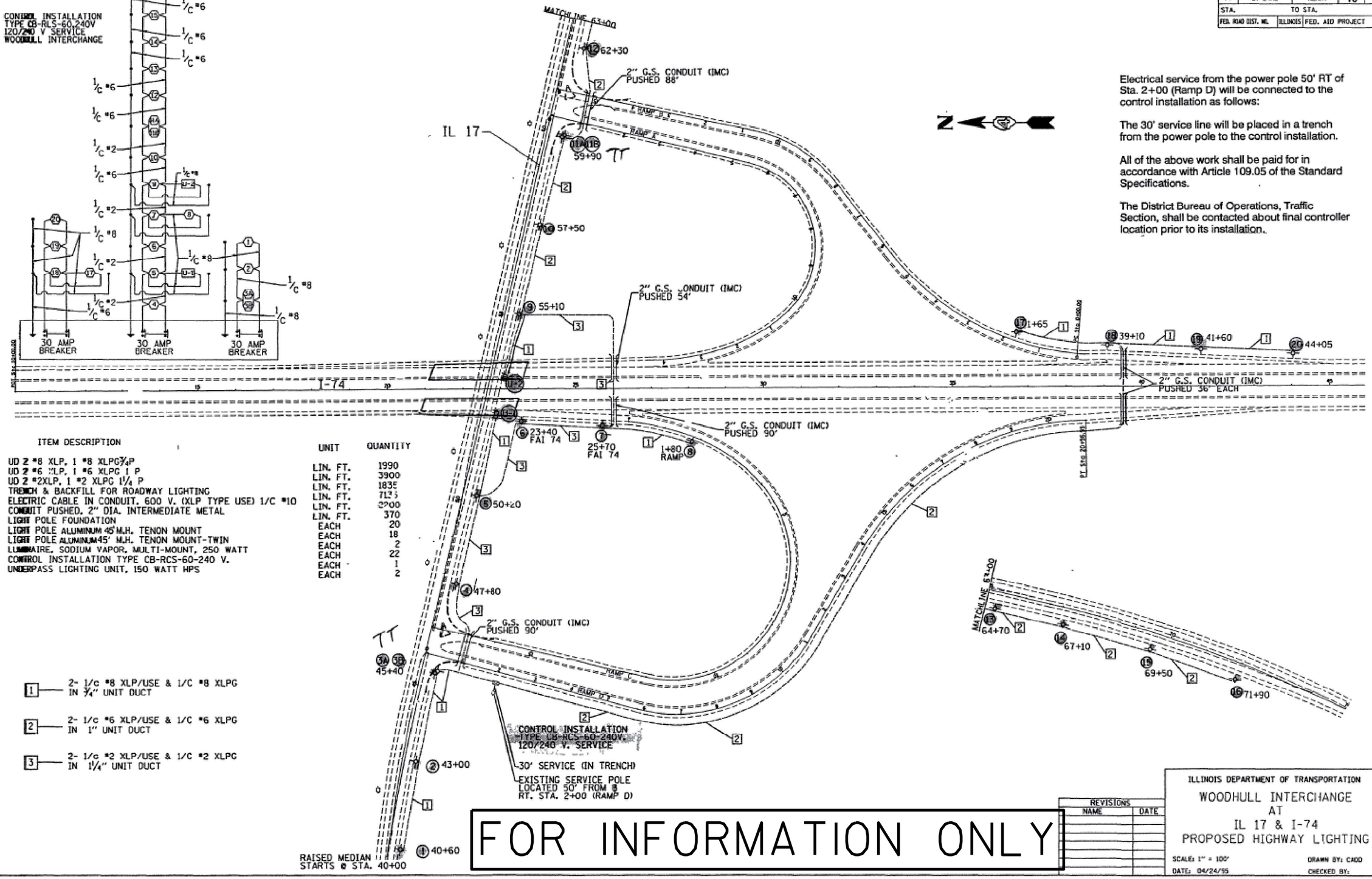
CONTROL INSTALLATION
TYPE CB-RCS-60-240V
120/240 V SERVICE
WOODHULL INTERCHANGE

ITEM DESCRIPTION	UNIT	QUANTITY
UD Z #8 XLP, 1 #8 XLPG ¾ P	LIN. FT.	1990
UD Z #6 XLP, 1 #6 XLPG 1 P	LIN. FT.	3900
UD Z #2XLP, 1 #2 XLPG 1¼ P	LIN. FT.	1835
TRENCH & BACKFILL FOR ROADWAY LIGHTING	LIN. FT.	7135
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/C #10	LIN. FT.	2200
CONDUIT PUSHED, 2" DIA. INTERMEDIATE METAL	LIN. FT.	370
LIGHT POLE FOUNDATION	EACH	20
LIGHT POLE ALUMINUM 45' M.H. TENON MOUNT	EACH	18
LIGHT POLE ALUMINUM 45' M.H. TENON MOUNT-TWIN	EACH	2
LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	22
CONTROL INSTALLATION TYPE CB-RCS-60-240 V.	EACH	1
UNDERPASS LIGHTING UNIT, 150 WATT HPS	EACH	2

1 — 2- 1/c #8 XLP/USE & 1/C #8 XLPG IN ¾" UNIT DUCT

2 — 2- 1/c #6 XLP/USE & 1/C #6 XLPG IN 1" UNIT DUCT

3 — 2- 1/c #2 XLP/USE & 1/C #2 XLPG IN 1¼" UNIT DUCT



Electrical service from the power pole 50' RT of Sta. 2+00 (Ramp D) will be connected to the control installation as follows:

The 30' service line will be placed in a trench from the power pole to the control installation.

All of the above work shall be paid for in accordance with Article 109.05 of the Standard Specifications.

The District Bureau of Operations, Traffic Section, shall be contacted about final controller location prior to its installation.

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WOODHULL INTERCHANGE
AT
IL 17 & I-74
PROPOSED HIGHWAY LIGHTING

SCALE: 1" = 100' DRAWN BY: CADD
DATE: 04/24/95 CHECKED BY:

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
I-74 OVER IL 17

SCALE: STA. TO STA.

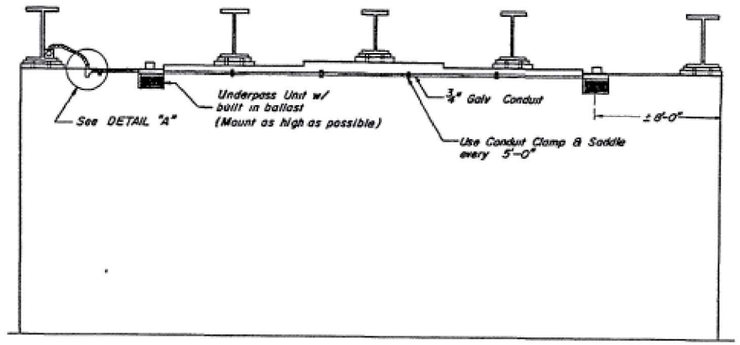
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HV8)BR	HENRY	127	61
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	*	HENRY	10	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

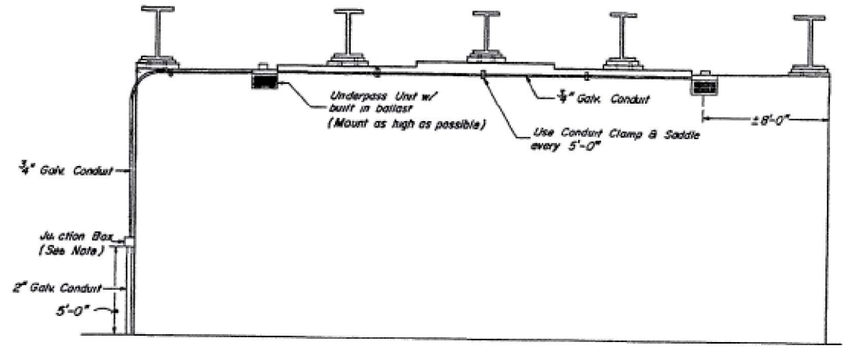
SHEET NO
SHEETS

* 37-24 HL



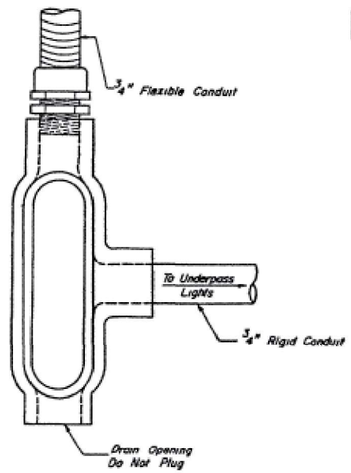
UNDERPASS LIGHTING
(Mounted on Face of Pier)

DIAG 1

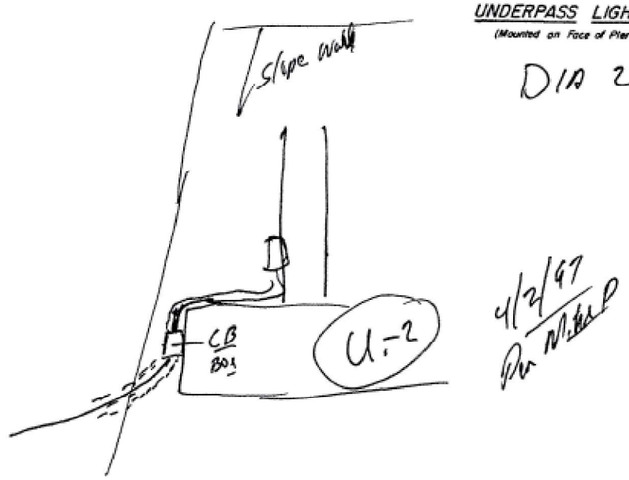


UNDERPASS LIGHTING
(Mounted on Face of Pier)

DIA 2



DETAIL "A"



4/3/97
Dr. M.B.P

NOTE FOR JUNCTION BOX
Cast aluminum or cast malleable iron junction box with integral cast mounting feet and gasketed cast cover, weather, water and dust tight Box shall have minimum inside dimensions of 8"x 6"x 4" and shall be supported by anchoring to the bridge pier by 4 hexhead, stainless steel, 5/16" dia, 18 thread per inch expansion screw anchors Duct portion of unit duct shall extend through the wall of the junction box by not less than 1". Wires shall be of length that splices can be withdrawn 12" from box Conduit and wire shall not be used to support the box.

FOR INFORMATION ONLY

UNDERPASS LIGHTING

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS I-74 OVER IL 17	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			74	(37-24HVB)BR	HENRY	127	62
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 68540		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: STA. TO STA.		ILLINOIS	FED. AID PROJECT		

CONSTRUCTION NOTES	
1.	ANY MAINTENANCE OF EXISTING OVERHEAD LIGHTING WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2.	THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4.	ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5.	ALL ELECTRICAL WORK SHALL CONFORM TO SECTION 800 OF THE STANDARD SPECIFICATIONS.
6.	THE EXISTING OVERHEAD LIGHTING SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED OVERHEAD LIGHTING.
7.	ALL METALLIC CONDUIT, JUNCTION BOXES, LUMINAIRES, AND OTHER METALLIC COMPONENTS SHALL BE BONDED IN ACCORDANCE WITH NEC REQUIREMENTS AND ARTICLE 873.04. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF RELOCATING THE EXISTING LIGHTING UNITS AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER ITEMS REQUIRED FOR BONDING).
8.	THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH SECTION 800 OF THE STANDARD SPECIFICATIONS.
9.	ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
10.	COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
11.	UNIT DUCT (CONDUIT AND WIRING OF EQUAL SIZE) MAY BE SUBSTITUTED FOR CONDUIT AND ELECTRICAL CABLE.
12.	NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
13.	THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.

RELOCATE EXISTING LIGHTING UNIT - 1.0 EACH (INCLUDES ALL ITEMS LISTED BELOW)
DESCRIPTION: THE CONTRACTOR SHALL RELOCATE AN EXISTING UNDERPASS LUMINAIRE TO THE PROPOSED BRIDGE PIER AND FURNISH AND INSTALL ALL ITEMS REQUIRED TO CONNECT IT TO THE EXISTING LIGHTING CIRCUIT BY COMPLETING THE FOLLOWING ITEMS:
1. REMOVE EX. UNDERPASS LUMINAIRE AND STORE AS NEEDED UNTIL RE-INSTALLATION.
2. RE-INSTALL EXISTING UNDERPASS LUMINAIRE ON PROPOSED BRIDGE PIER. CENTER ON PIER AND FURNISH BRACKETS, HARDWARE, AND ALL OTHER ITEMS REQUIRED FOR MOUNTING. ALL BRACKETS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
3. FURNISH AND INSTALL NEW 6 X 6 X 4 STAINLESS STEEL JUNCTION BOX AND MOUNT TO PROPOSED BRIDGE PIER IN A LOCATION TO AVOID DAMAGE FROM ERRANT VEHICLES.
4. FURNISH AND INSTALL NEW FUSEHOLDER, FUSES, AND SURGE ARRESTOR FOR EX. UNDERPASS LUMINAIRE INSIDE JUNCTION BOX.
5. FURNISH AND INSTALL NEW 3/4" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE AS REQUIRED TO TRANSITION FROM THE LUMINAIRE TO THE JUNCTION BOX AND THEN TO THE GROUND LEVEL. PROVIDE FOR EXPANSION AS NEEDED.
6. FURNISH AND INSTALL 3/4" PVC CONDUIT FROM EXISTING LIGHT POLE AS SHOWN ON THE PLANS AND COUPLE TO THE PROPOSED 3/4" DIA. GALVANIZED STEEL CONDUIT.
7. FURNISH AND INSTALL NEW #10 AWG X 3 WIRING FROM EXISTING LIGHT POLE TO THE PROPOSED JUNCTION BOX AND UNDERPASS LUMINAIRE. EXCAVATE AS REQUIRED FOR ENTRY THROUGH EXISTING LIGHT POLE FOUNDATION.
8. SPLICE PROPOSED WIRING INTO EXISTING LIGHTING CIRCUIT INSIDE EXISTING LIGHT POLE USING CRIMPED CONNECTORS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
9. ENSURE THAT CONDUIT, LUMINAIRE, JUNCTION BOX, AND METALLIC COMNPONENTNS ARE GROUNDED IN ACCORANCE WITH NEC REQUIREMENTS.
10. FURNISH ALL OTHER ITEMS AND COMPLETE ALL WORK AS REQUIRED FOR REMOVAL AND RE- INSTALLATION.

FILE NAME = $FILEL$

USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

DESIGNED - | DRAWN - | CHECKED - | DATE -

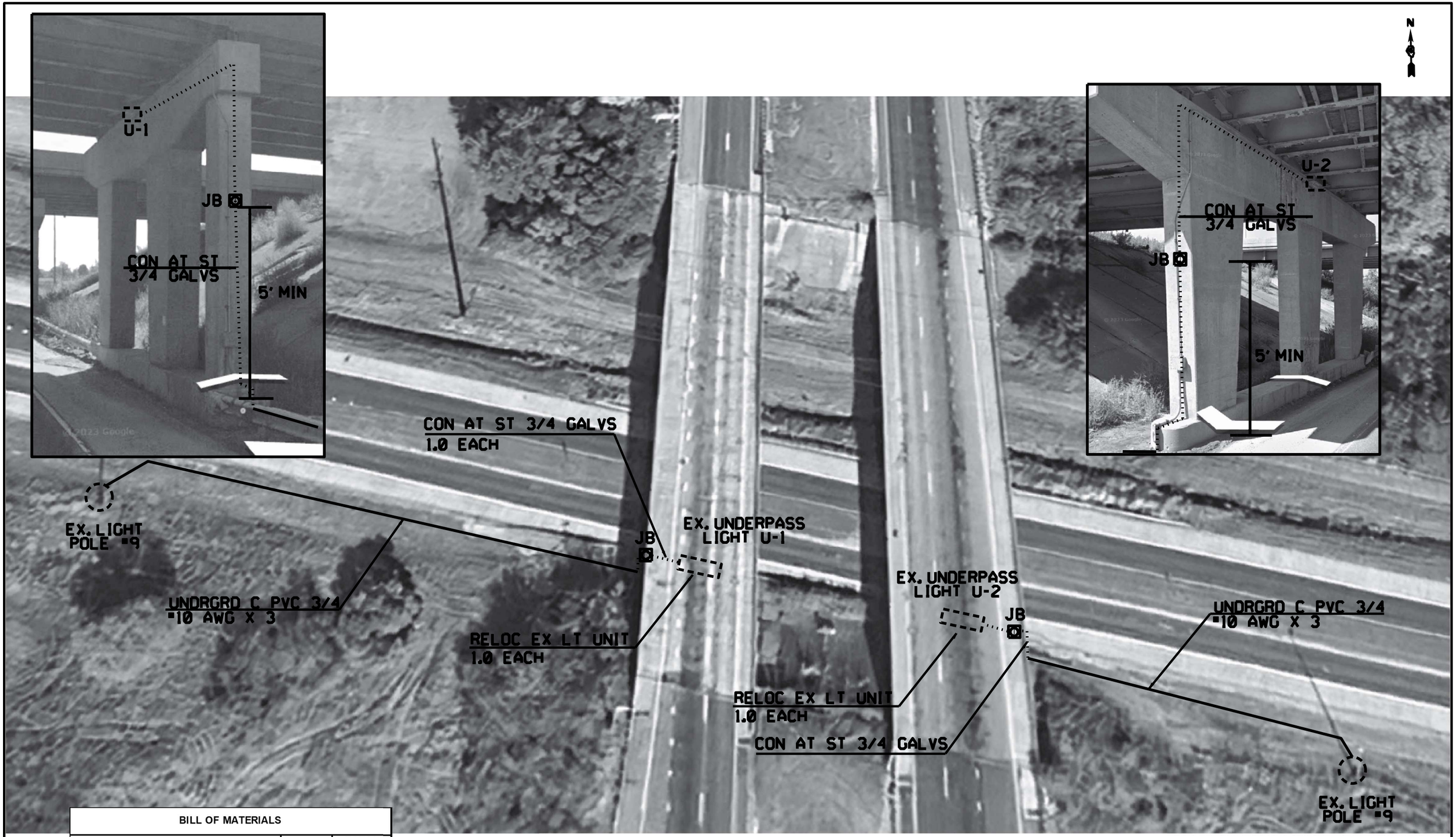
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD LIGHTING CONSTRUCTION NOTES
I-74 OVER IL 17

SCALE: | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVBIBR	HENRY	127	63
		CONTRACT NO. 68540		
		ILLINOIS FED. AID PROJECT		



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
RELOCATE EXISTING LIGHTING UNIT	EACH	2

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RELOCATE EXISTING UNDERPASS LUMINAIRES
I-74 OVER IL 17

SCALE: STA. TO STA.

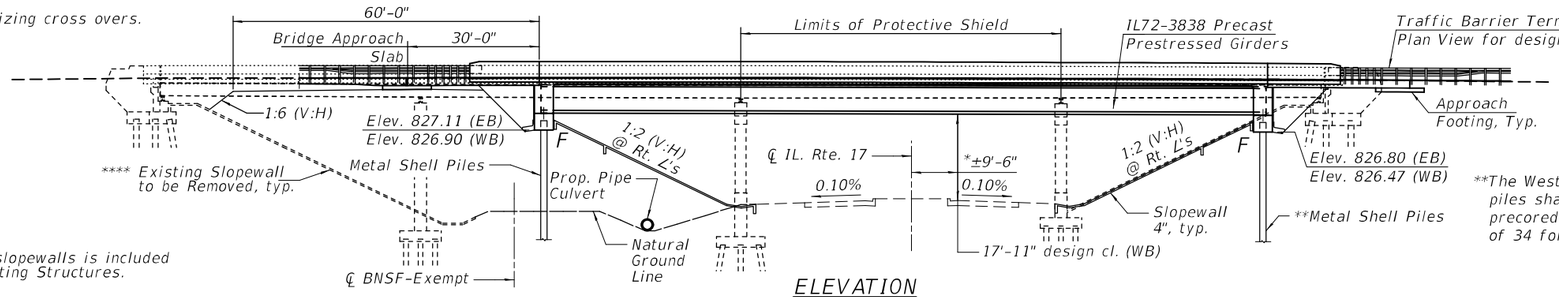
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	64
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

Benchmark: BM#10003, Brass Disc in center of medians of IL. Rte. 17 and I-74. Elevation = 813.02, Sta. 22+64.70 (I-74), 0.00' RT.

Existing Structures: S.N. 037-0019 (E.B.) and S.N. 037-0020 (W.B.), built in 1967 as Section 37-24HVB on F.A.1. Rte. 74; Sta. 22+64.70. The structures were reconstructed in 1988 when portions of the concrete deck were replaced. The headwalls and wingwalls on the abutments were reconstructed during this rehabilitation. The steel in the superstructure was painted in 1999. The existing four span structures have a concrete deck on continuous wide flange beams supported by open concrete abutments and pile bent concrete piers. The out-to-out deck for the West Bound bridge varies from 48'-9¼" to 52'-4¼" and the East Bound bridge varies from 42'-2⅝" to 44'-7⅝". Both bridges are 248'-4" back-to-back of the abutments and are skewed 13°-9'-40" left-forward.

Traffic to be maintained utilizing cross overs.

No salvage.



**** Removal of existing slopewalls is included with Removal of Existing Structures.

**The Westbound South Abutment piles shall be driven through precored holes. See sheet 24 of 34 for additional information.

ELEVATION

*Dimension @ Rt. L's to IL. Rte. 17

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.067
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.106
Soil Site Class = C

DESIGN STRESSES

FIELD UNITS

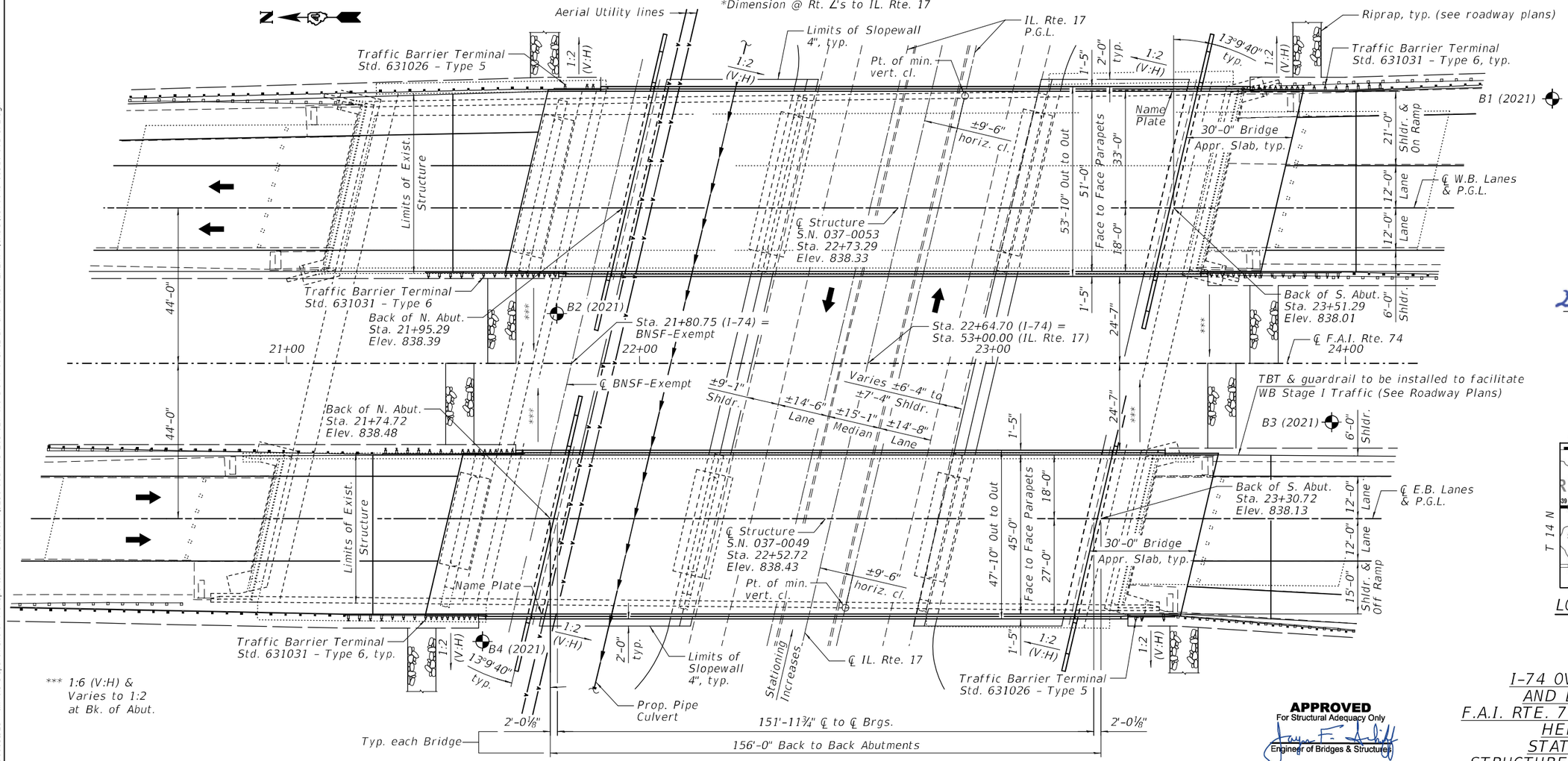
f'_c = 3,500 psi (Substructure)
f'_c = 4,000 psi (Superstructure Concrete)
f_y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 8,500 psi
f'_{ci} = 6,500 psi
f_{pu} = 270,000 psi (0.6" ø low lax. strands)
f_{pbt} = 202,300 psi (0.6" ø low lax. strands)

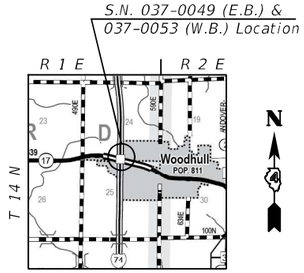
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.



*** 1:6 (V:H) & Varies to 1:2 at Bk. of Abut.

PLAN



LOCATION SKETCH

STATE OF ILLINOIS
HENRY H. COULTAS
81-4539
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

Henry H Coultas
Expires: 11/30/2026
Date: 3/21/2025

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

I-74 OVER IL. RTE. 17 AND BNSF-EXEMPT
F.A.I. RTE. 74 - SEC. 37-24HVB-I
HENRY COUNTY
STATION 22+64.70
STRUCTURE NO. 037-0049 (E.B.)
STRUCTURE NO. 037-0053 (W.B.)

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = ___	DESIGNED - DJC	REVISED - ___	
	CHECKED - VRR	REVISED - ___	
PLOT SCALE = ___	DRAWN - DJC	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - VRR	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 037 - 0049 (E.B.) & 037 - 0053 (W.B.)
SHEET 1 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-I	HENRY	127	65
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

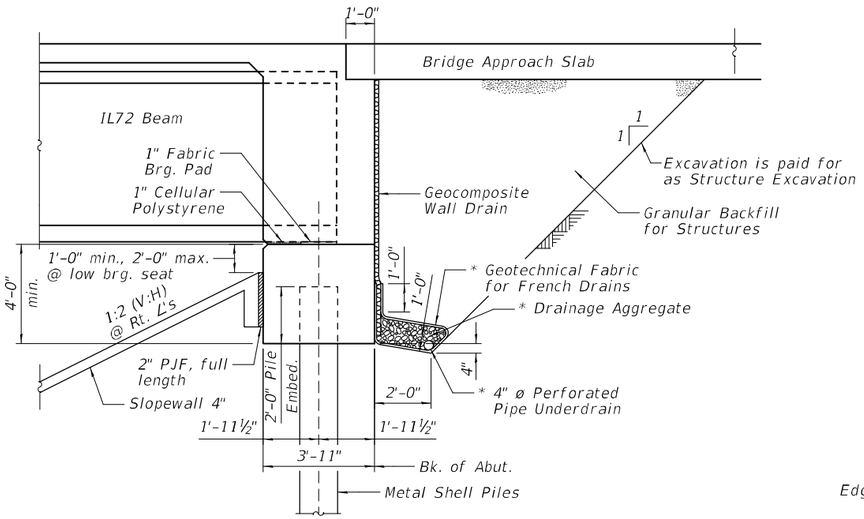
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The existing structural steel coating contains lead. The contractor shall take appropriate precautions to address the presence of lead on this project.

In addition to the requirements of Article 501.03 in the Standard Specifications, the Contractor shall evaluate the condition of the existing Protective Shield. Such evaluation shall be performed by a licensed Structural Engineer in Illinois. The cost of this evaluation is included with Protective Shield. If structurally adequate, the existing Protective Shield shall remain in place for demolition of the existing bridge deck. The Contractor shall be paid for this work based on the total quantity of existing and new Protective Shield actually required at the Contract unit price per square yard for Protective Shield.

Pile driving for the North Abutment at each bridge shall not commence until 95% of the anticipated settlement has occurred. Settlement platform(s) shall be installed in the embankment construction to monitor the settlement. See Roadway Plans for embankment details.

Prior to application of the Protective Coat on the parapets, the Contractor shall stencil the structure number on the parapet near the Name Plate location. The numbers shall be 2" tall and painted with black acrylic paint on a white acrylic paint background. The white background shall be centered vertically on the Name Plate and offset horizontally 3'-0" clear from the near edge of the Name Plate, measured toward the center of the bridge. The format shall be 037-0049 and 037-0053 for each respective bridge.



SECTION THRU ABUTMENT

(Horizontal dimensions @ Rt. L's)

* Included in the Cost of Pipe Underdrains for Structures.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

STATION 22+64.70
BUILT 202_ BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC 37-24HVB-I
LOADING HL-93
STRUCTURE NO. 037-0049

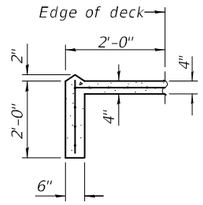
NAME PLATE

See Std. 515001

STATION 22+64.70
BUILT 202_ BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC 37-24HVB-I
LOADING HL-93
STRUCTURE NO. 037-0053

NAME PLATE

See Std. 515001



SECTION A-A

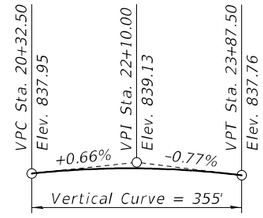
INDEX OF SHEETS

Sheet No.	Description
1	General Plan and Elevation
2	General Data
3	Substructure Layout
4	Top of Slab Elevations - Location Plan
5	Top of Slab Elevations
6	Top of Slab Elevations
7	Top of Slab Elevations
8	Top of Approach Slab Elevations
9	Top of Approach Slab Elevations
10	Superstructure (WB)
11	Superstructure Details (WB)
12	Superstructure (EB)
13	Superstructure Details (EB)
14	Diaphragm Details (WB)
15	Diaphragm Details (EB)
16	Bridge Approach Slab Plan (WB)
17	Bridge Approach Slab Details (WB)
18	Bridge Approach Slab Plan (EB)
19	Bridge Approach Slab Details (EB)
20	Framing Plan
21	IL72 Beam
22	IL72 Beam & Permanent Bracing Details
23	North Abutment Details (WB)
24	South Abutment Details (WB)
25	Wingwall Extension Details (WB)
26	North Abutment Details (EB)
27	South Abutment Details (EB)
28	Wingwall Extension Details (EB)
29	Metal Shell Pile Details
30	Concrete Parapet Slipforming Option
31	Soil Boring Logs
32	Soil Boring Logs
33	Soil Boring Logs
34	Soil Boring Logs

TOTAL BILL OF MATERIAL
(SN 037-0049) & (SN 037-0053)

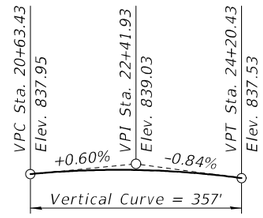
	ITEM	UNIT	SUPER	SUB	TOTAL
**	Removal Of Existing Structures No. 1	Each			1
**	Removal Of Existing Structures No. 2	Each			1
	Protective Shield	Sq Yd	713		713
	Structure Excavation	Cu Yd		1036.2	1036.2
	Concrete Structures	Cu Yd		223.1	223.1
	Concrete Superstructure	Cu Yd	682.0		682.0
	Protective Coat	Sq Yd	2642		2642
	Concrete Superstructure (Approach Slab)	Cu Yd	277.3		277.3
	Furnishing And Erecting Precast Prestressed Concrete Beams, IL72	Foot	2299		2299
	Reinforcement Bars, Epoxy Coated	Pound	230660	40840	271500
	Slope Wall 4 Inch	Sq Yd		1574	1574
	Furnishing Metal Shell Piles 16" X 0.375"	Foot		2111	2111
	Driving Piles	Foot		2111	2111
	Test Pile Metal Shells	Each		4	4
	Pile Shoes	Each		36	36
	Name Plates	Each	2		2
	Granular Backfill For Structures	Cu Yd		782	782
	Geocomposite Wall Drain	Sq Yd		334	334
	Pipe Underdrains For Structures 4"	Foot		392	392
	Diamond Grinding (Bridge Section)	Sq Yd	2497		2497
	Bridge Deck Grooving (Longitudinal)	Sq Yd	2609		2609
	Bar Terminators	Each	204	848	1052

** The existing Eastbound Structure shall be considered Structure No. 1
The existing Westbound structure shall be considered Structure No. 2.



PROPOSED I-74 PROFILE GRADE

(Along ℄ E.B. Lanes)

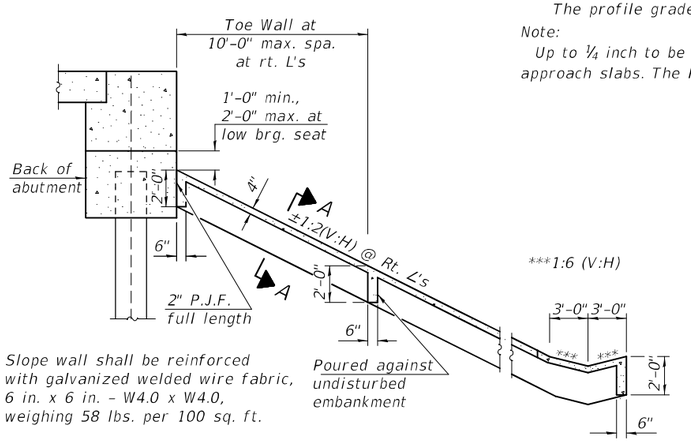


PROPOSED I-74 PROFILE GRADE

(Along ℄ W.B. Lanes)

The profile grades show the final elevations after grinding

Note:
Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.

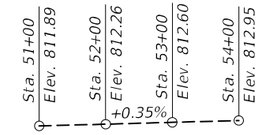


Slope wall shall be reinforced with galvanized welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

Poured against undisturbed embankment

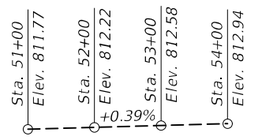
SECTION THRU CONCRETE SLOPEWALL

(Horizontal dimensions @ Rt. L's)



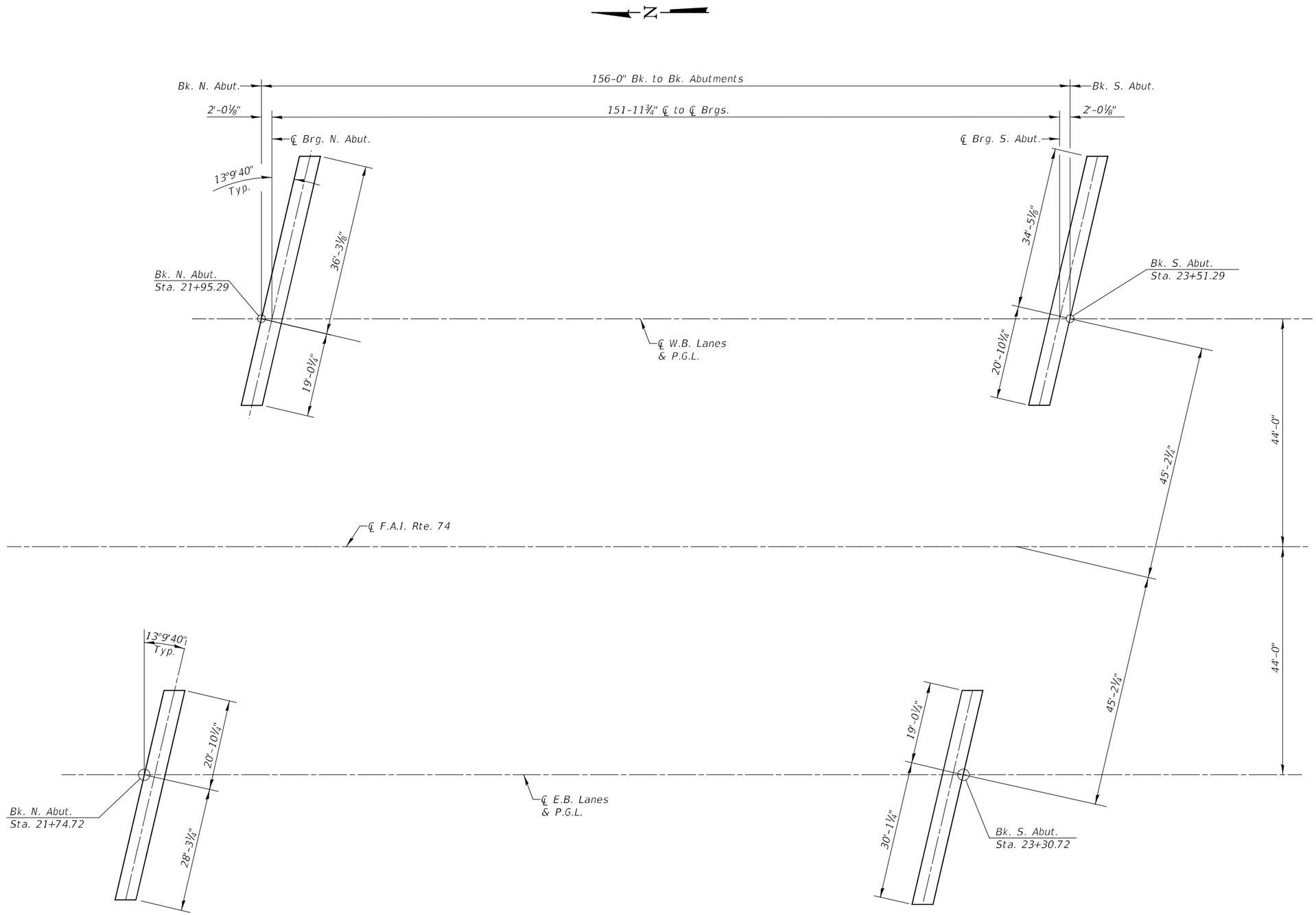
EXISTING IL. RTE. 17 PROFILE GRADE

(Along inside edge of pavement E.B. Lane)



EXISTING IL. RTE. 17 PROFILE GRADE

(Along inside edge of pavement W.B. Lane)



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VEENSTRA & KIMM INC.
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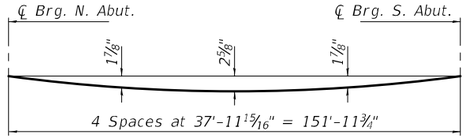
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - KS	REVISED - __	
	CHECKED - VRR	REVISED - __	
PLOT SCALE = __	DRAWN - KF	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT
STRUCTURE NO. 037 - 0049 (E.B.) & 037 - 0053 (W.B.)
SHEET 3 OF 34 SHEETS

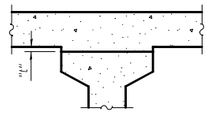
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	67
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



DEAD LOAD DEFLECTION DIAGRAM

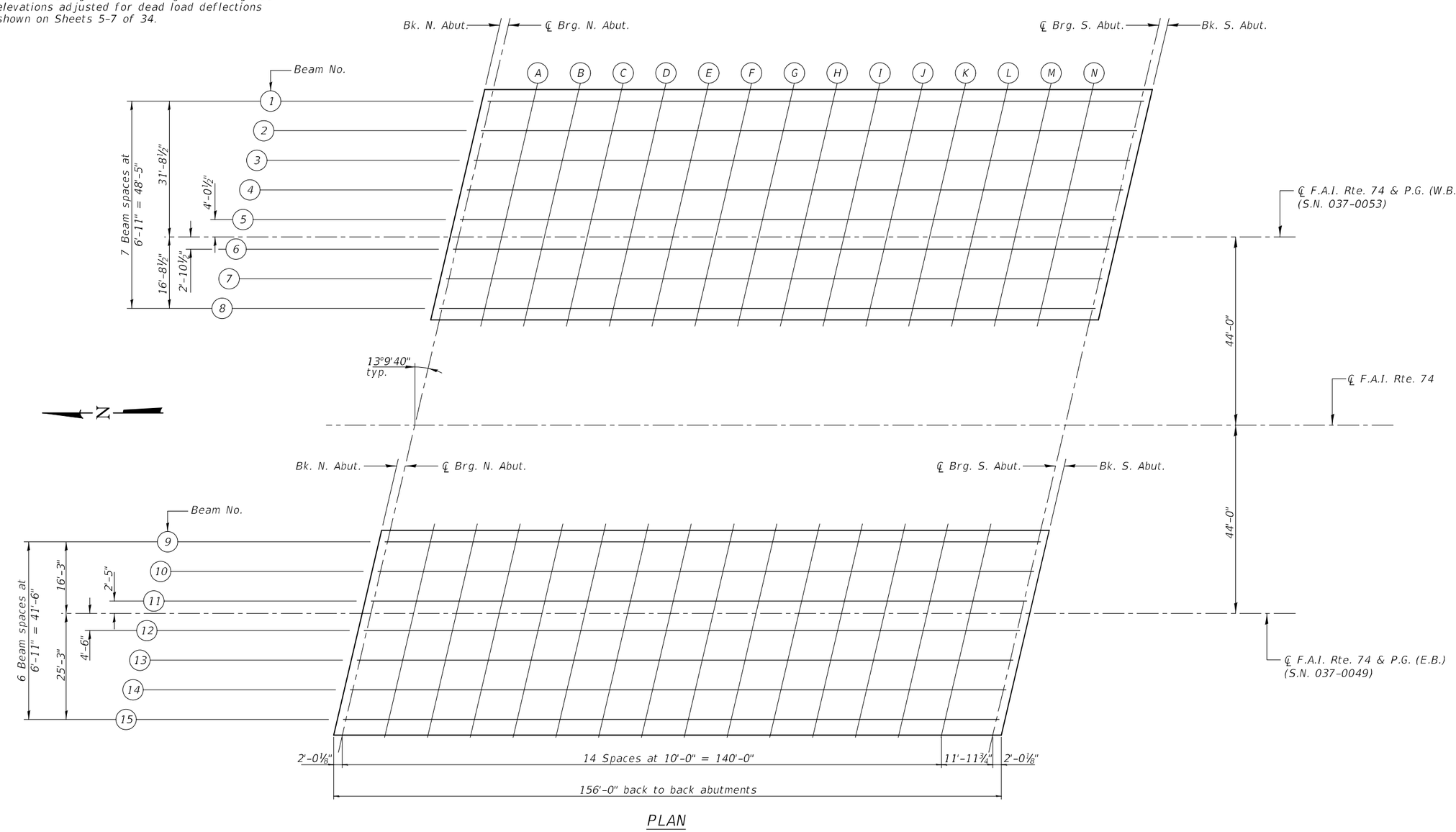
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections shown on Sheets 5-7 of 34.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections and Grinding" shown on Sheets 5-7 of 34., minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN

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IL. Design Firm No. 184-001939

USER NAME = ___	DESIGNED - DJC	REVISED - ___	
	CHECKED - VRR	REVISED - ___	
PLOT SCALE = ___	DRAWN - KF	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS - LOCATION PLAN
STRUCTURE NO. 037 - 0049 (E.B.) & 037 - 0053 (W.B.)
SHEET 4 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	68
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

Beam 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	22+02.70	-31.71	837.82	837.84
℄ Brg. N. Abut.	22+04.71	-31.71	837.82	837.84
A	22+14.71	-31.71	837.82	837.88
B	22+24.71	-31.71	837.82	837.92
C	22+34.71	-31.71	837.81	837.95
D	22+44.71	-31.71	837.80	837.97
E	22+54.71	-31.71	837.79	837.98
F	22+64.71	-31.71	837.77	837.98
G	22+74.71	-31.71	837.74	837.96
H	22+84.71	-31.71	837.72	837.94
I	22+94.71	-31.71	837.68	837.89
J	23+04.71	-31.71	837.65	837.85
K	23+14.71	-31.71	837.61	837.78
L	23+24.71	-31.71	837.57	837.71
M	23+34.71	-31.71	837.52	837.63
N	23+44.71	-31.71	837.47	837.54
℄ Brg. S. Abut.	23+56.69	-31.71	837.40	837.42
Bk. S. Abut.	23+58.70	-31.71	837.39	837.41

Beam 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	22+01.09	-24.79	837.96	837.98
℄ Brg. N. Abut.	22+03.10	-24.79	837.96	837.98
A	22+13.10	-24.79	837.96	838.03
B	22+23.10	-24.79	837.96	838.07
C	22+33.10	-24.79	837.95	838.10
D	22+43.10	-24.79	837.94	838.12
E	22+53.10	-24.79	837.93	838.14
F	22+63.10	-24.79	837.91	838.14
G	22+73.10	-24.79	837.89	838.13
H	22+83.10	-24.79	837.86	838.10
I	22+93.10	-24.79	837.83	838.06
J	23+03.10	-24.79	837.79	838.00
K	23+13.10	-24.79	837.76	837.95
L	23+23.10	-24.79	837.71	837.87
M	23+33.10	-24.79	837.67	837.79
N	23+43.10	-24.79	837.61	837.68
℄ Brg. S. Abut.	23+55.08	-24.79	837.55	837.57
Bk. S. Abut.	23+57.09	-24.79	837.54	837.56

Beam 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+99.47	-17.88	838.10	838.12
℄ Brg. N. Abut.	22+01.48	-17.88	838.10	838.12
A	22+11.48	-17.88	838.10	838.17
B	22+21.48	-17.88	838.10	838.21
C	22+31.48	-17.88	838.09	838.24
D	22+41.48	-17.88	838.08	838.26
E	22+51.48	-17.88	838.07	838.28
F	22+61.48	-17.88	838.05	838.28
G	22+71.48	-17.88	838.03	838.27
H	22+81.48	-17.88	838.00	838.24
I	22+91.48	-17.88	837.97	838.20
J	23+01.48	-17.88	837.94	838.15
K	23+11.48	-17.88	837.90	838.09
L	23+21.48	-17.88	837.86	838.02
M	23+31.48	-17.88	837.81	837.93
N	23+41.48	-17.88	837.76	837.83
℄ Brg. S. Abut.	23+53.46	-17.88	837.70	837.72
Bk. S. Abut.	23+55.47	-17.88	837.68	837.70

Beam 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+97.85	-10.96	838.23	838.25
℄ Brg. N. Abut.	21+99.86	-10.96	838.23	838.25
A	22+09.86	-10.96	838.23	838.30
B	22+19.86	-10.96	838.23	838.34
C	22+29.86	-10.96	838.23	838.38
D	22+39.86	-10.96	838.22	838.40
E	22+49.86	-10.96	838.20	838.41
F	22+59.86	-10.96	838.19	838.42
G	22+69.86	-10.96	838.16	838.40
H	22+79.86	-10.96	838.14	838.38
I	22+89.86	-10.96	838.11	838.34
J	22+99.86	-10.96	838.08	838.29
K	23+09.86	-10.96	838.04	838.23
L	23+19.86	-10.96	838.00	838.16
M	23+29.86	-10.96	837.95	838.07
N	23+39.86	-10.96	837.90	837.97
℄ Brg. S. Abut.	23+51.84	-10.96	837.84	837.86
Bk. S. Abut.	23+53.85	-10.96	837.83	837.85

Beam 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+96.24	-4.04	838.33	838.35
℄ Brg. N. Abut.	21+98.25	-4.04	838.33	838.35
A	22+08.25	-4.04	838.34	838.41
B	22+18.25	-4.04	838.33	838.44
C	22+28.25	-4.04	838.33	838.48
D	22+38.25	-4.04	838.32	838.50
E	22+48.25	-4.04	838.31	838.52
F	22+58.25	-4.04	838.29	838.52
G	22+68.25	-4.04	838.27	838.51
H	22+78.25	-4.04	838.25	838.49
I	22+88.25	-4.04	838.22	838.45
J	22+98.25	-4.04	838.19	838.40
K	23+08.25	-4.04	838.15	838.34
L	23+18.25	-4.04	838.11	838.27
M	23+28.25	-4.04	838.06	838.18
N	23+38.25	-4.04	838.02	838.09
℄ Brg. S. Abut.	23+50.22	-4.04	837.95	837.97
Bk. S. Abut.	23+52.24	-4.04	837.94	837.96

℄ F.A.I 74 (W.B.) & P.G.L

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+95.29	0.00	838.39	838.41
℄ Brg. N. Abut.	21+97.30	0.00	838.39	838.41
A	22+07.30	0.00	838.40	838.47
B	22+17.30	0.00	838.40	838.51
C	22+27.30	0.00	838.39	838.54
D	22+37.30	0.00	838.38	838.56
E	22+47.30	0.00	838.37	838.58
F	22+57.30	0.00	838.36	838.59
G	22+67.30	0.00	838.33	838.57
H	22+77.30	0.00	838.31	838.55
I	22+87.30	0.00	838.28	838.51
J	22+97.30	0.00	838.25	838.46
K	23+07.30	0.00	838.21	838.40
L	23+17.30	0.00	838.17	838.33
M	23+27.30	0.00	838.13	838.25
N	23+37.30	0.00	838.08	838.15
℄ Brg. S. Abut.	23+49.28	0.00	838.02	838.04
Bk. S. Abut.	23+51.29	0.00	838.01	838.03

MODEL: Default
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VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - DJC	REVISED - __	
	CHECKED - VRR	REVISED - __	
PLOT SCALE = __	DRAWN - KF	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037 - 0049 (E.B.) & 037 - 0053 (W.B.)

SHEET 5 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	69
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

Beam 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+94.62	2.88	838.35	838.37
℄ Brg. N. Abut.	21+96.63	2.88	838.35	838.37
A	22+06.63	2.88	838.35	838.42
B	22+16.63	2.88	838.35	838.46
C	22+26.63	2.88	838.35	838.50
D	22+36.63	2.88	838.34	838.52
E	22+46.63	2.88	838.33	838.54
F	22+56.63	2.88	838.31	838.54
G	22+66.63	2.88	838.29	838.53
H	22+76.63	2.88	838.27	838.51
I	22+86.63	2.88	838.24	838.47
J	22+96.63	2.88	838.21	838.42
K	23+06.63	2.88	838.17	838.36
L	23+16.63	2.88	838.13	838.29
M	23+26.63	2.88	838.09	838.21
N	23+36.63	2.88	838.04	838.11
℄ Brg. S. Abut.	23+48.61	2.88	837.98	838.00
Bk. S. Abut.	23+50.62	2.88	837.97	837.99

Beam 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+93.00	9.79	838.24	838.26
℄ Brg. N. Abut.	21+95.01	9.79	838.24	838.26
A	22+05.01	9.79	838.25	838.32
B	22+15.01	9.79	838.25	838.36
C	22+25.01	9.79	838.25	838.40
D	22+35.01	9.79	838.24	838.42
E	22+45.01	9.79	838.23	838.44
F	22+55.01	9.79	838.21	838.44
G	22+65.01	9.79	838.19	838.43
H	22+75.01	9.79	838.17	838.41
I	22+85.01	9.79	838.14	838.37
J	22+95.01	9.79	838.11	838.32
K	23+05.01	9.79	838.08	838.27
L	23+15.01	9.79	838.04	838.20
M	23+25.01	9.79	837.99	838.11
N	23+35.01	9.79	837.95	838.02
℄ Brg. S. Abut.	23+46.99	9.79	837.88	837.90
Bk. S. Abut.	23+49.00	9.79	837.87	837.89

Beam 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+91.38	16.71	838.11	838.13
℄ Brg. N. Abut.	21+93.39	16.71	838.11	838.13
A	22+03.39	16.71	838.12	838.18
B	22+13.39	16.71	838.12	838.22
C	22+23.39	16.71	838.12	838.26
D	22+33.39	16.71	838.11	838.28
E	22+43.39	16.71	838.10	838.29
F	22+53.39	16.71	838.09	838.30
G	22+63.39	16.71	838.07	838.29
H	22+73.39	16.71	838.05	838.27
I	22+83.39	16.71	838.02	838.23
J	22+93.39	16.71	837.99	838.19
K	23+03.39	16.71	837.95	838.12
L	23+13.39	16.71	837.92	838.06
M	23+23.39	16.71	837.87	837.98
N	23+33.39	16.71	837.83	837.90
℄ Brg. S. Abut.	23+45.37	16.71	837.76	837.78
Bk. S. Abut.	23+47.38	16.71	837.75	837.77

Beam 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+78.52	-16.25	838.22	838.24
℄ Brg. N. Abut.	21+80.53	-16.25	838.22	838.24
A	21+90.53	-16.25	838.23	838.29
B	22+00.53	-16.25	838.23	838.34
C	22+10.53	-16.25	838.22	838.37
D	22+20.53	-16.25	838.21	838.40
E	22+30.53	-16.25	838.20	838.42
F	22+40.53	-16.25	838.19	838.42
G	22+50.53	-16.25	838.17	838.41
H	22+60.53	-16.25	838.14	838.38
I	22+70.53	-16.25	838.11	838.35
J	22+80.53	-16.25	838.08	838.30
K	22+90.53	-16.25	838.05	838.24
L	23+00.53	-16.25	838.01	838.16
M	23+10.53	-16.25	837.96	838.08
N	23+20.53	-16.25	837.92	837.99
℄ Brg. S. Abut.	23+32.51	-16.25	837.85	837.87
Bk. S. Abut.	23+34.52	-16.25	837.84	837.86

Beam 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+76.90	-9.33	838.34	838.36
℄ Brg. N. Abut.	21+78.91	-9.33	838.34	838.36
A	21+88.91	-9.33	838.35	838.42
B	21+98.91	-9.33	838.35	838.46
C	22+08.91	-9.33	838.35	838.50
D	22+18.91	-9.33	838.34	838.53
E	22+28.91	-9.33	838.33	838.55
F	22+38.91	-9.33	838.31	838.55
G	22+48.91	-9.33	838.30	838.54
H	22+58.91	-9.33	838.27	838.52
I	22+68.91	-9.33	838.24	838.48
J	22+78.91	-9.33	838.21	838.43
K	22+88.91	-9.33	838.18	838.37
L	22+98.91	-9.33	838.14	838.30
M	23+08.91	-9.33	838.10	838.22
N	23+18.91	-9.33	838.05	838.13
℄ Brg. S. Abut.	23+30.89	-9.33	837.99	838.01
Bk. S. Abut.	23+32.90	-9.33	837.98	838.00

Beam 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+75.29	-2.42	838.45	838.47
℄ Brg. N. Abut.	21+77.30	-2.42	838.45	838.47
A	21+87.30	-2.42	838.45	838.52
B	21+97.30	-2.42	838.45	838.57
C	22+07.30	-2.42	838.45	838.60
D	22+17.30	-2.42	838.45	838.64
E	22+27.30	-2.42	838.44	838.65
F	22+37.30	-2.42	838.42	838.66
G	22+47.30	-2.42	838.40	838.65
H	22+57.30	-2.42	838.38	838.63
I	22+67.30	-2.42	838.35	838.59
J	22+77.30	-2.42	838.32	838.54
K	22+87.30	-2.42	838.29	838.48
L	22+97.30	-2.42	838.25	838.41
M	23+07.30	-2.42	838.21	838.33
N	23+17.30	-2.42	838.16	838.24
℄ Brg. S. Abut.	23+29.27	-2.42	838.10	838.12
Bk. S. Abut.	23+31.29	-2.42	838.09	838.11

MODEL: Default
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VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - DJC	REVISED - __	
	CHECKED - VRR	REVISED - __	
PLOT SCALE = __	DRAWN - KF	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037-0049 (E.B.) & 037-0053 (W.B.)

SHEET 6 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	70
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

℄ F.A.I 74 (E.B.) & P.G.L

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+74.72	0.00	838.48	838.50
℄ Brg. N. Abut.	21+76.73	0.00	838.48	838.50
A	21+86.73	0.00	838.49	838.56
B	21+96.73	0.00	838.49	838.60
C	22+06.73	0.00	838.49	838.64
D	22+16.73	0.00	838.48	838.67
E	22+26.73	0.00	838.47	838.69
F	22+36.73	0.00	838.46	838.69
G	22+46.73	0.00	838.44	838.68
H	22+56.73	0.00	838.42	838.66
I	22+66.73	0.00	838.39	838.63
J	22+76.73	0.00	838.36	838.58
K	22+86.73	0.00	838.33	838.52
L	22+96.73	0.00	838.29	838.45
M	23+06.73	0.00	838.25	838.37
N	23+16.73	0.00	838.20	838.28
℄ Brg. S. Abut.	23+28.71	0.00	838.14	838.16
Bk. S. Abut.	23+30.72	0.00	838.13	838.15

Beam 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+73.67	4.50	838.41	838.43
℄ Brg. N. Abut.	21+75.68	4.50	838.41	838.43
A	21+85.68	4.50	838.42	838.49
B	21+95.68	4.50	838.42	838.53
C	22+05.68	4.50	838.42	838.57
D	22+15.68	4.50	838.42	838.61
E	22+25.68	4.50	838.41	838.62
F	22+35.68	4.50	838.39	838.63
G	22+45.68	4.50	838.37	838.62
H	22+55.68	4.50	838.35	838.60
I	22+65.68	4.50	838.33	838.56
J	22+75.68	4.50	838.30	838.52
K	22+85.68	4.50	838.26	838.46
L	22+95.68	4.50	838.22	838.39
M	23+05.68	4.50	838.18	838.31
N	23+15.68	4.50	838.14	838.22
℄ Brg. S. Abut.	23+27.66	4.50	838.08	838.10
Bk. S. Abut.	23+29.67	4.50	838.07	838.09

Beam 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+72.05	11.42	838.31	838.33
℄ Brg. N. Abut.	21+74.06	11.42	838.31	838.33
A	21+84.06	11.42	838.32	838.38
B	21+94.06	11.42	838.32	838.43
C	22+04.06	11.42	838.32	838.47
D	22+14.06	11.42	838.31	838.50
E	22+24.06	11.42	838.30	838.52
F	22+34.06	11.42	838.29	838.53
G	22+44.06	11.42	838.27	838.52
H	22+54.06	11.42	838.25	838.50
I	22+64.06	11.42	838.23	838.46
J	22+74.06	11.42	838.20	838.42
K	22+84.06	11.42	838.16	838.36
L	22+94.06	11.42	838.13	838.29
M	23+04.06	11.42	838.09	838.21
N	23+14.06	11.42	838.04	838.12
℄ Brg. S. Abut.	23+26.04	11.42	837.98	838.00
Bk. S. Abut.	23+28.05	11.42	837.97	837.99

Beam 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+70.43	18.33	838.17	838.19
℄ Brg. N. Abut.	21+72.44	18.33	838.17	838.19
A	21+82.44	18.33	838.18	838.25
B	21+92.44	18.33	838.18	838.30
C	22+02.44	18.33	838.18	838.34
D	22+12.44	18.33	838.18	838.37
E	22+22.44	18.33	838.17	838.39
F	22+32.44	18.33	838.16	838.39
G	22+42.44	18.33	838.14	838.39
H	22+52.44	18.33	838.12	838.37
I	22+62.44	18.33	838.10	838.33
J	22+72.44	18.33	838.07	838.29
K	22+82.44	18.33	838.03	838.23
L	22+92.44	18.33	838.00	838.16
M	23+02.44	18.33	837.96	838.08
N	23+12.44	18.33	837.91	837.99
℄ Brg. S. Abut.	23+24.42	18.33	837.85	837.87
Bk. S. Abut.	23+26.43	18.33	837.84	837.86

Beam 15

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. For Dead Load Deflection & Grinding
Bk. N. Abut.	21+68.82	25.25	838.03	838.05
℄ Brg. N. Abut.	21+70.83	25.25	838.03	838.05
A	21+80.83	25.25	838.04	838.11
B	21+90.83	25.25	838.05	838.16
C	22+00.83	25.25	838.05	838.20
D	22+10.83	25.25	838.04	838.23
E	22+20.83	25.25	838.03	838.25
F	22+30.83	25.25	838.02	838.25
G	22+40.83	25.25	838.01	838.25
H	22+50.83	25.25	837.99	838.23
I	22+60.83	25.25	837.96	838.19
J	22+70.83	25.25	837.93	838.15
K	22+80.83	25.25	837.90	838.09
L	22+90.83	25.25	837.87	838.02
M	23+00.83	25.25	837.83	837.95
N	23+10.83	25.25	837.78	837.86
℄ Brg. S. Abut.	23+22.81	25.25	837.72	837.74
Bk. S. Abut.	23+24.82	25.25	837.71	837.73

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\03700049-68510-007 - Sbb EL Tables.dgn
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VEENSTRA & KIMM INC.
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USER NAME = __	DESIGNED - DJC	REVISED - __	
	CHECKED - VRR	REVISED - __	
PLOT SCALE = __	DRAWN - KF	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037 - 0049 (E.B.) & 037 - 0053 (W.B.)

SHEET 7 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	71
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+74.04	-33.00	837.77	837.79
A1	21+84.04	-33.00	837.78	837.80
A2	21+94.04	-33.00	837.79	837.81
S. End N. App.	22+04.04	-33.00	837.80	837.82

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+69.12	-12.00	838.18	838.20
A1	21+79.12	-12.00	838.20	838.22
A2	21+89.12	-12.00	838.21	838.23
S. End N. App.	21+99.12	-12.00	838.21	838.23

℄ WB LANES & P.G.L.

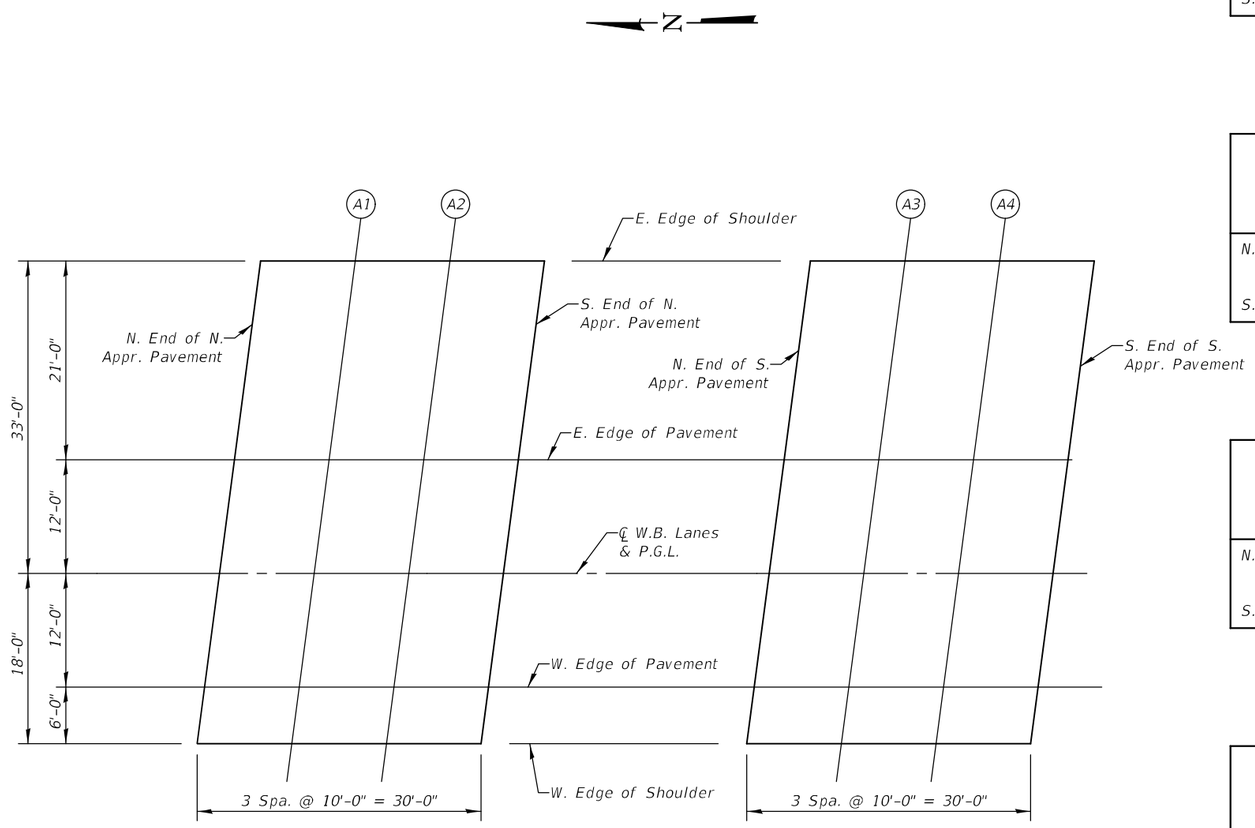
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+66.32	0.00	838.35	838.37
A1	21+76.32	0.00	838.37	838.39
A2	21+86.32	0.00	838.38	838.4
S. End N. App.	21+96.32	0.00	838.39	838.41

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+63.51	12.00	838.17	838.19
A1	21+73.51	12.00	838.19	838.21
A2	21+83.51	12.00	838.20	838.22
S. End N. App.	21+93.51	12.00	838.21	838.23

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+62.11	18.00	838.05	838.07
A1	21+72.11	18.00	838.07	838.09
A2	21+82.11	18.00	838.08	838.10
S. End N. App.	21+92.11	18.00	838.09	838.11



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(S.N. 037-0053)

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+57.98	-33.00	837.38	837.40
A3	23+67.98	-33.00	837.32	837.34
A4	23+77.98	-33.00	837.25	837.27
S. End S. App.	23+87.98	-33.00	837.18	837.20

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+53.07	-12.00	837.83	837.85
A3	23+63.07	-12.00	837.77	837.79
A4	23+73.07	-12.00	837.70	837.72
S. End S. App.	23+83.07	-12.00	837.64	837.66

℄ WB LANES & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+50.26	0.00	838.02	838.04
A3	23+60.26	0.00	837.96	837.98
A4	23+70.26	0.00	837.90	837.92
S. End S. App.	23+80.26	0.00	837.84	837.86

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+47.46	12.00	837.86	837.88
A3	23+57.46	12.00	837.80	837.82
A4	23+67.46	12.00	837.74	837.76
S. End S. App.	23+77.46	12.00	837.67	837.69

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+46.05	18.00	837.74	837.76
A3	23+56.05	18.00	837.69	837.71
A4	23+66.05	18.00	837.63	837.65
S. End S. App.	23+76.05	18.00	837.56	837.58

MODEL: Default
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VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - DJC	REVISED - __	
	CHECKED - VRR	REVISED - __	
PLOT SCALE = __	DRAWN - KF	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037 - 0053 (W.B.)

SHEET 8 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	72
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+49.96	-18.00	838.15	838.17
A1	21+59.96	-18.00	838.16	838.18
A2	21+69.96	-18.00	838.18	838.20
S. End N. App.	21+79.96	-18.00	838.19	838.21

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+48.55	-12.00	838.27	838.29
A1	21+58.55	-12.00	838.28	838.30
A2	21+68.55	-12.00	838.30	838.32
S. End N. App.	21+78.55	-12.00	838.31	838.33

℄ EB LANES & P.G.L.

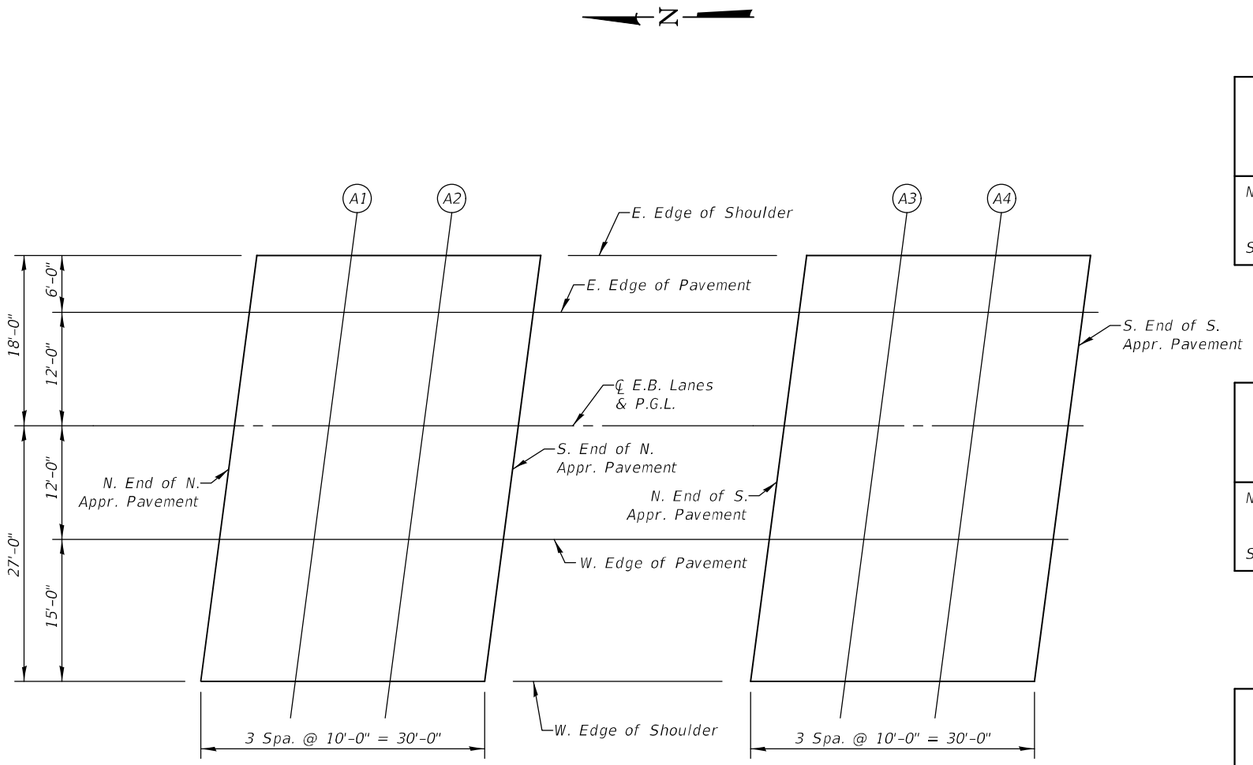
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+45.75	0.00	838.44	838.46
A1	21+55.75	0.00	838.46	838.48
A2	21+65.75	0.00	838.47	838.49
S. End N. App.	21+75.75	0.00	838.48	838.50

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+42.94	12.00	838.25	838.27
A1	21+52.94	12.00	838.27	838.29
A2	21+62.94	12.00	838.29	838.31
S. End N. App.	21+72.94	12.00	838.30	838.32

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End N. App.	21+39.43	27.00	837.95	837.97
A1	21+49.43	27.00	837.97	837.99
A2	21+59.43	27.00	837.98	838.00
S. End N. App.	21+69.43	27.00	838.00	838.02



PLAN
(S.N. 037-0049)

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+33.90	-18.00	837.82	837.84
A3	23+43.90	-18.00	837.76	837.78
A4	23+53.90	-18.00	837.70	837.72
S. End S. App.	23+63.90	-18.00	837.63	837.65

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+32.50	-12.00	837.94	837.96
A3	23+42.50	-12.00	837.89	837.91
A4	23+52.50	-12.00	837.83	837.85
S. End S. App.	23+62.50	-12.00	837.76	837.78

℄ EB LANES & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+29.69	0.00	838.14	838.16
A3	23+39.69	0.00	838.08	838.10
A4	23+49.69	0.00	838.02	838.04
S. End S. App.	23+59.69	0.00	837.96	837.98

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+26.89	12.00	837.97	837.99
A3	23+36.89	12.00	837.92	837.94
A4	23+46.89	12.00	837.86	837.88
S. End S. App.	23+56.89	12.00	837.80	837.82

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elev. Adj. for Grinding
N. End S. App.	23+23.38	27.00	837.69	837.71
A3	23+33.38	27.00	837.64	837.66
A4	23+43.38	27.00	837.58	837.60
S. End S. App.	23+53.38	27.00	837.52	837.54

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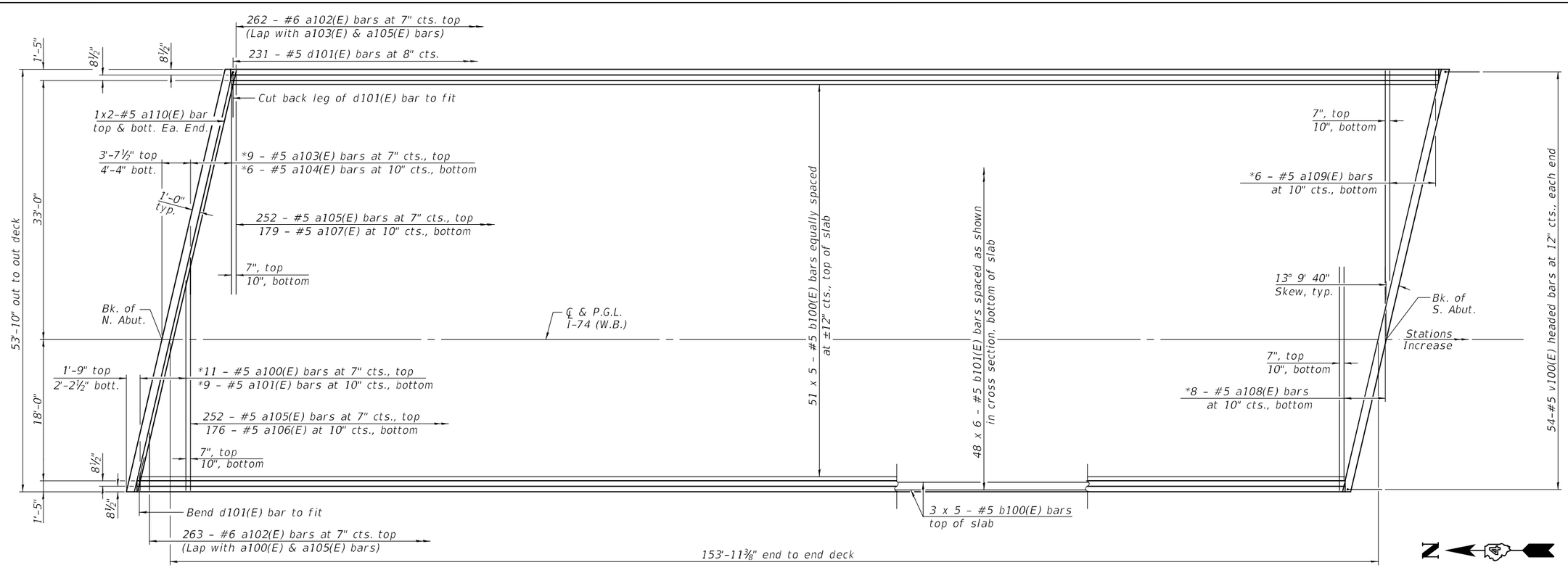
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037 - 0049 (E.B.)

SHEET 9 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	73
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

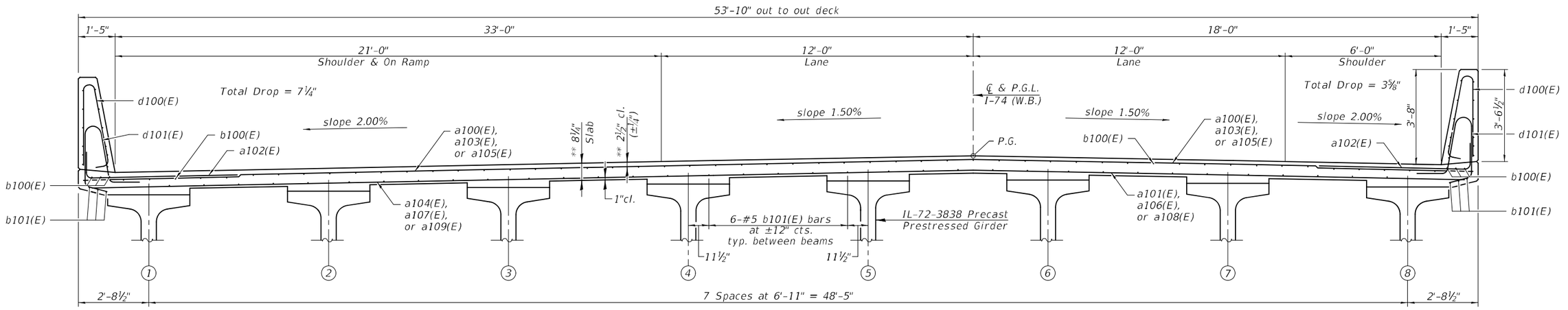


PLAN

MINIMUM BAR LAP

#5 bar = 3'-6"

* See field cutting diagram on Sheet 11 of 34.



CROSS SECTION

(Looking South)

** Prior to Grinding

Notes:
See sheet 11 of 34 for superstructure details and Bill of Material.
Bars indicated thus 51 x 5-#5 etc. indicates 51 lines of bars with 5 lengths per line.

MODEL: Default
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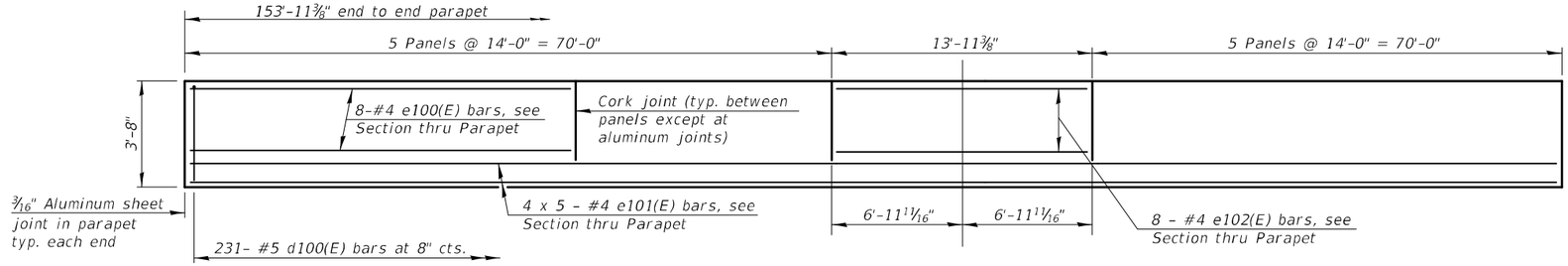
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

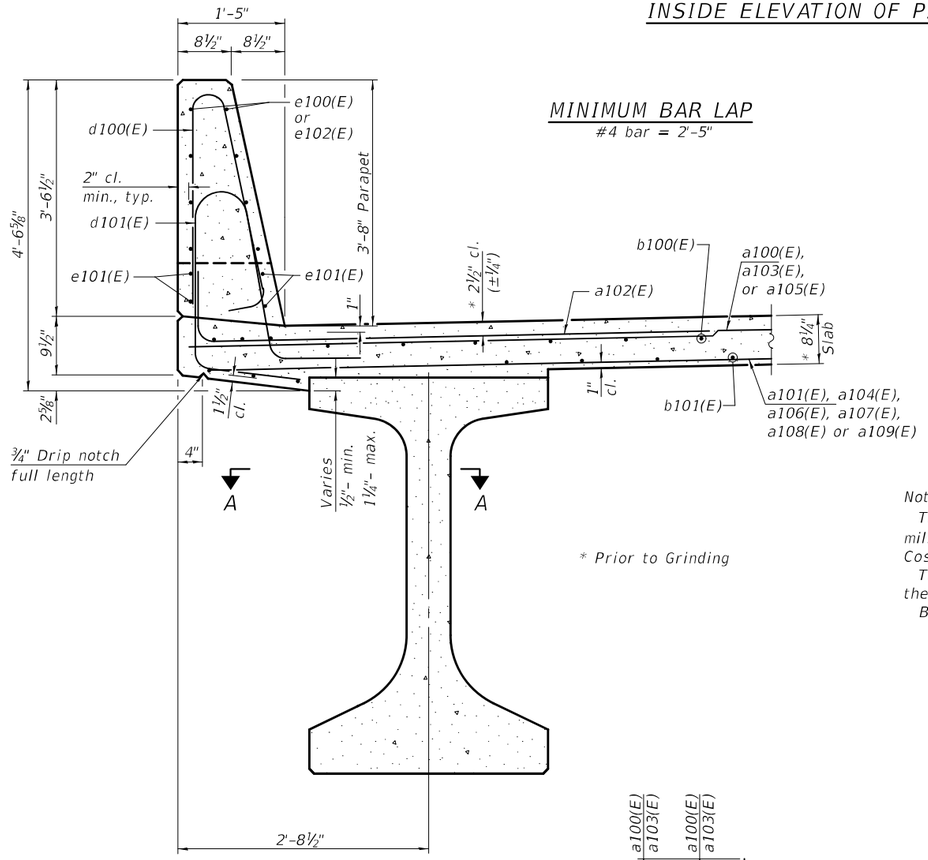
SUPERSTRUCTURE
STRUCTURE NO. 037 - 0053 (W.B.)

SHEET 10 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	74
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF PARAPET

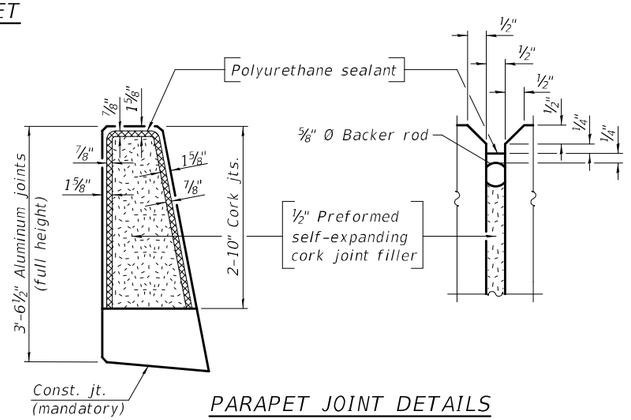


SECTION THRU PARAPET

MINIMUM BAR LAP

#4 bar = 2'-5"

* Prior to Grinding



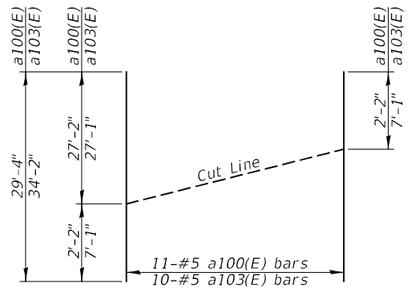
PARAPET JOINT DETAILS

Notes:

The 3/16" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

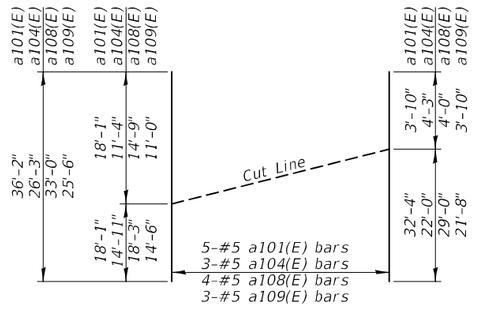
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Bar terminators, paid for separately. See Total Bill of Material.



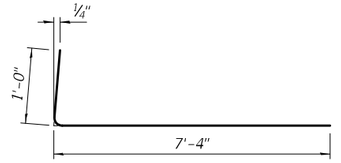
FIELD CUTTING DIAGRAM

Order a100(E) and a103(E) bars full length. Cut as shown and use remainder of bars in opposite corner of the deck.

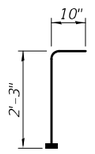


FIELD CUTTING DIAGRAM

Order a101(E), a104(E), a108(E) and a109(E) bars full length and cut as shown above.

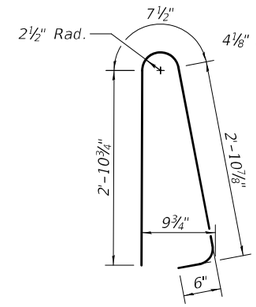


BAR a102(E)

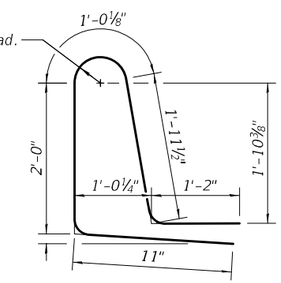


BAR v100(E)

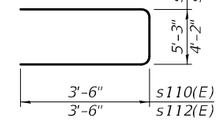
(Headed 108-#5 Bar Terminators)



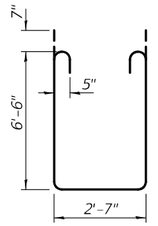
BAR d100(E)



BAR d101(E)



BARS s110(E) & s112(E)



BAR s111(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	11	#5	29'-4"	
a101(E)	5	#5	36'-2"	
a102(E)	525	#6	8'-4"	
a103(E)	9	#5	34'-2"	
a104(E)	3	#5	26'-3"	
a105(E)	504	#5	28'-6"	
a106(E)	176	#5	31'-7"	
a107(E)	179	#5	24'-8"	
a108(E)	4	#5	33'-0"	
a109(E)	3	#5	25'-6"	
a110(E)	8	#5	29'-3"	
b100(E)	285	#5	33'-7"	
b101(E)	288	#5	28'-7"	
d100(E)	462	#5	6'-5"	
d101(E)	462	#5	7'-1"	
e100(E)	160	#4	13'-8"	
e101(E)	40	#4	32'-8"	
e102(E)	16	#4	13'-7"	
m110(E)	28	#6	29'-8"	
m111(E)	70	#6	6'-1"	
m112(E)	20	#6	2'-2"	
m113(E)	14	#6	3'-8"	
m114(E)	4	#6	1'-0"	
m115(E)	48	#5	4'-0"	
s110(E)	64	#5	12'-3"	
s111(E)	64	#5	16'-9"	
s112(E)	64	#5	11'-2"	
v100(E)	108	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	66,170	
Concrete Superstructure		Cu. Yds.	349.2	
Bar Terminators		Each	108	

Bars indicated thus 4 x 5-#4 etc. indicates 4 line of bars with 5 lengths per line.

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FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-011 - WB Superstructure Details.dgn
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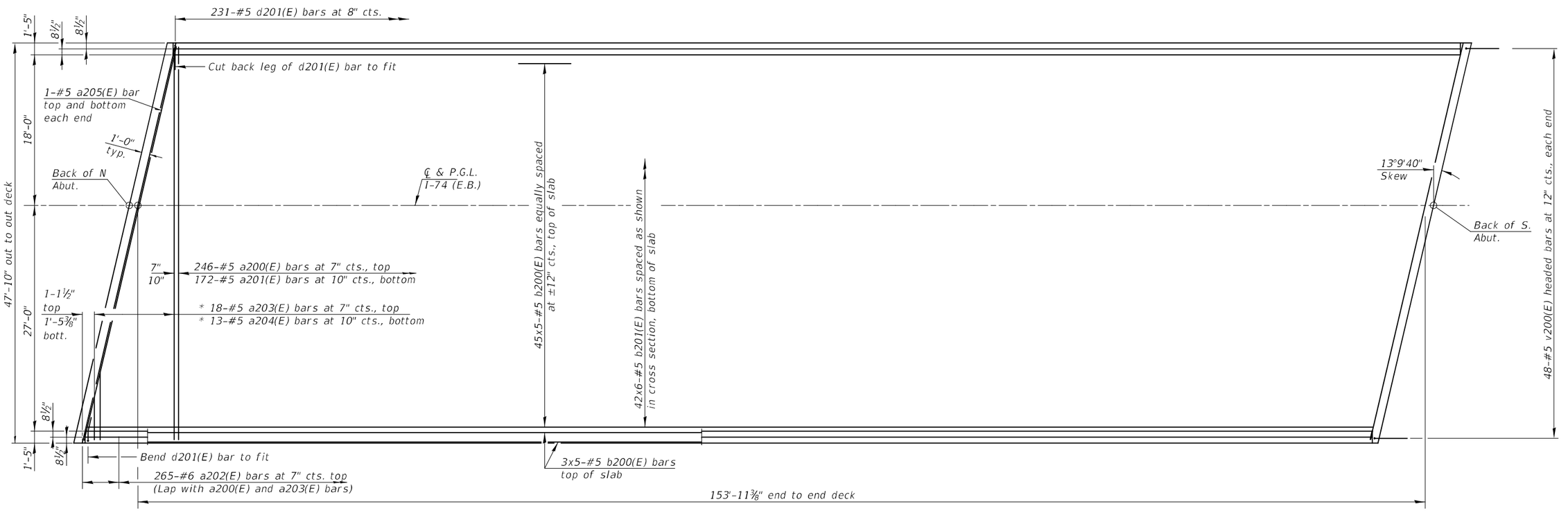
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 037 - 0053 (W.B.)

SHEET 11 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	75
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

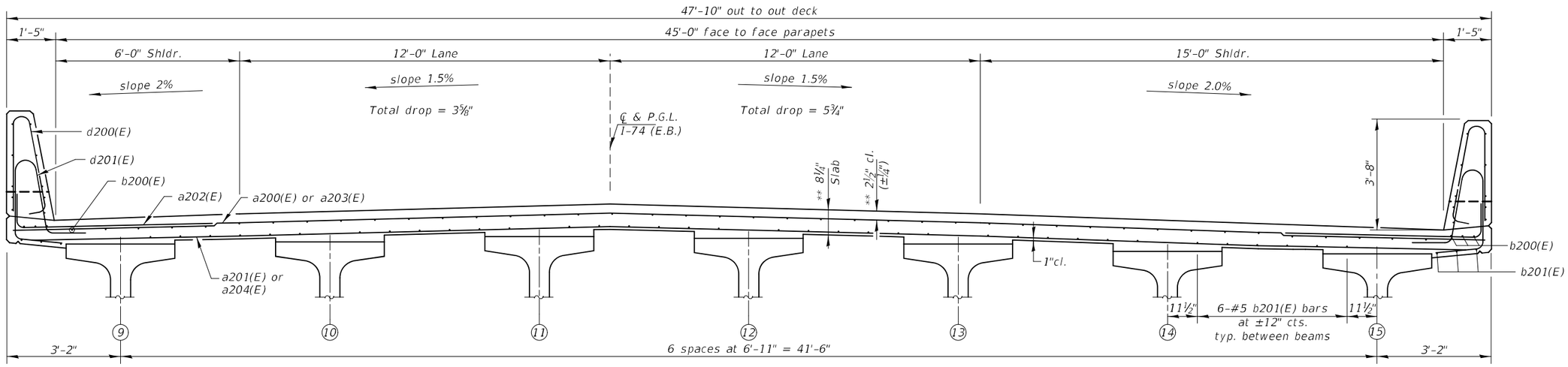


MINIMUM BAR LAP

#5 bar = 3'-6"

PLAN

* Order a203(E), a204(E) bars full length.
See Field Cutting Diagram on sheet 13 of 34.



CROSS SECTION

(Looking South)

** Prior to Grinding

Notes:
See sheet 13 of 34 for superstructure details and Bill of Material.
Bars indicated thus 45 x 5-#5 etc. indicates 45 lines of bars with 5 lengths per line.

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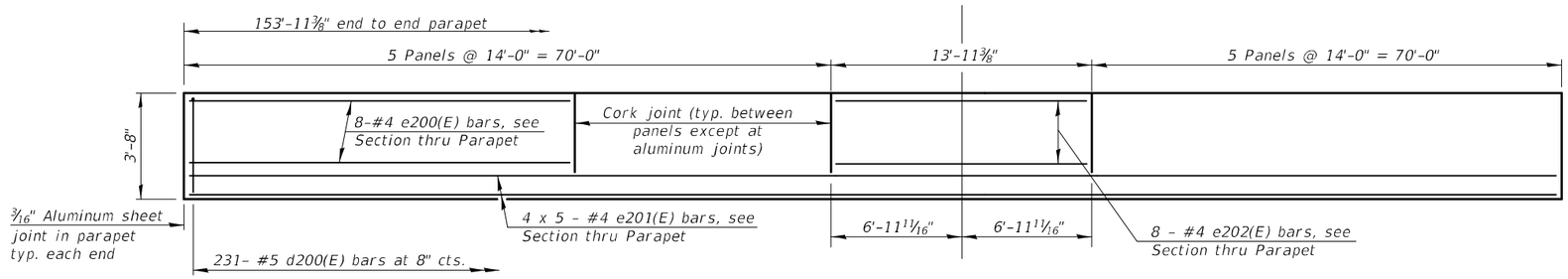
PLOT SCALE = __	DRAWN - KF	REVISED - __
PLOT DATE = MARCH 19th, 2025	CHECKED - VRR	REVISED - __

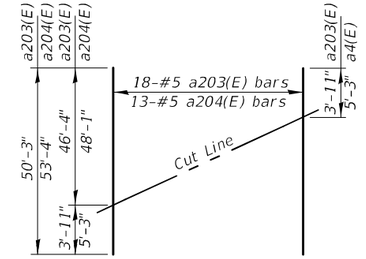
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 12 OF 36 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	76
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

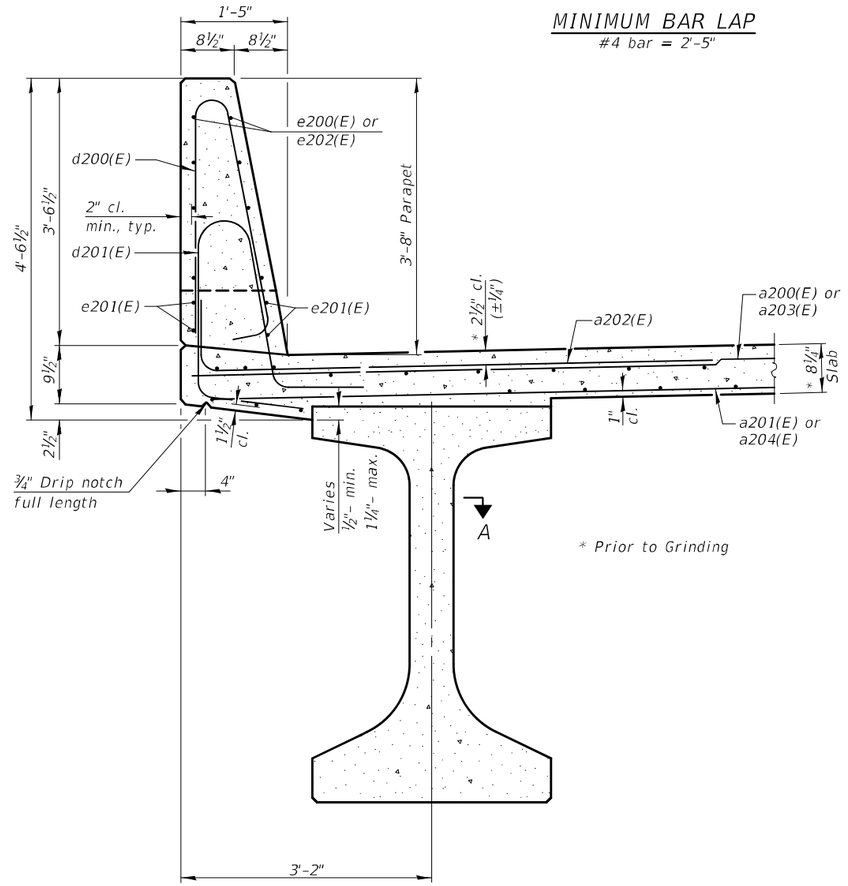


INSIDE ELEVATION OF PARAPET



FIELD CUTTING DIAGRAM

Order a203(E) and a204(E) bars full length.
Cut as shown and use remainder of bars in opposite end of deck.



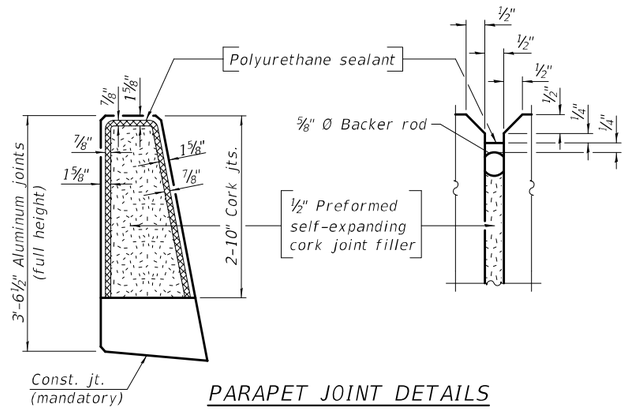
MINIMUM BAR LAP

#4 bar = 2'-5"

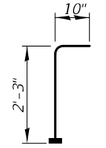
SECTION THRU PARAPET

* Prior to grinding

* Prior to Grinding

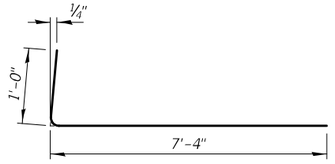


PARAPET JOINT DETAILS

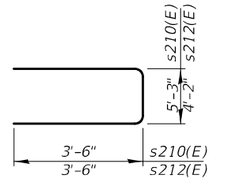


BAR v200(E)

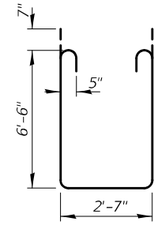
(Headed 96-#5 Bar Terminators)



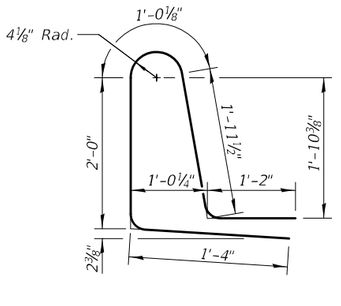
BAR a202(E)



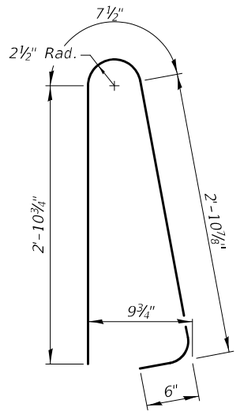
BARS s210(E) & s212(E)



BAR s211(E)



BAR d201(E)



BAR d200(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a200(E)	246	#5	47'-6"	——
a201(E)	172	#5	45'-10"	——
a202(E)	530	#6	8'-4"	└
a203(E)	18	#5	50'-3"	——
a204(E)	13	#5	53'-4"	——
a205(E)	4	#5	48'-9"	——
b200(E)	255	#5	33'-6"	——
b201(E)	252	#5	28'-7"	——
d200(E)	462	#5	6'-11"	⌋
d201(E)	462	#5	7'-6"	⌊
e200(E)	160	#4	13'-8"	——
e201(E)	40	#4	32'-8"	——
e202(E)	16	#4	13'-7"	——
m210(E)	14	#6	48'-9"	——
m211(E)	60	#6	6'-1"	——
m212(E)	20	#6	2'-7"	——
m213(E)	12	#6	3'-8"	——
m214(E)	4	#6	1'-4"	——
m215(E)	42	#5	4'-0"	——
s210(E)	56	#5	12'-3"	⊐
s211(E)	56	#5	16'-9"	⊓
s212(E)	56	#5	11'-2"	⊐
v200(E)	96	#5	3'-1"	⌊
Reinforcement Bars, Epoxy Coated		Lbs.	59,320	
Concrete Superstructure		Cu. Yds.	315.2	
Bar Terminators		Each	96	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

Notes:

The ⅜" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Bar terminators, paid for separately. See Total Bill of Material.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037049-68510-013 - EB Superstructure Details.dgn
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USER NAME = __	DESIGNED - DJC	REVISED - __	
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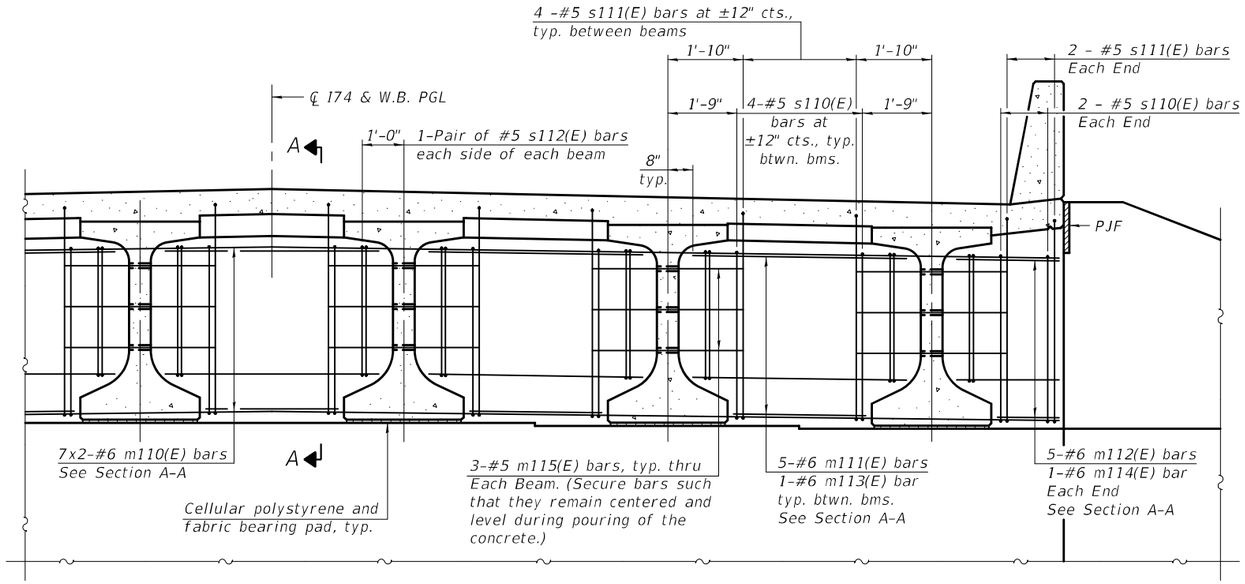
PLOT SCALE = __	DRAWN - KF	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED -	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

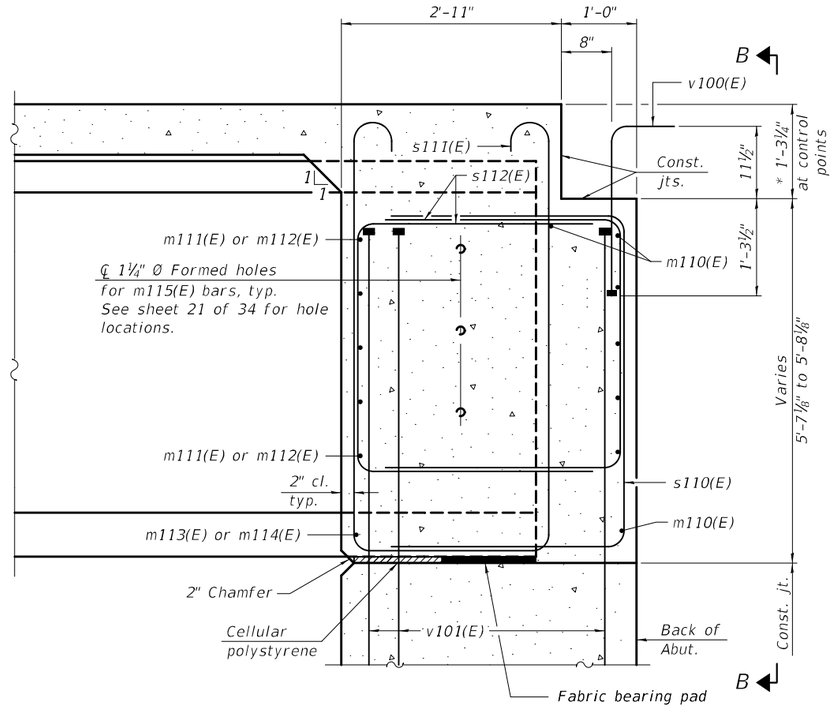
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 13 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	77
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



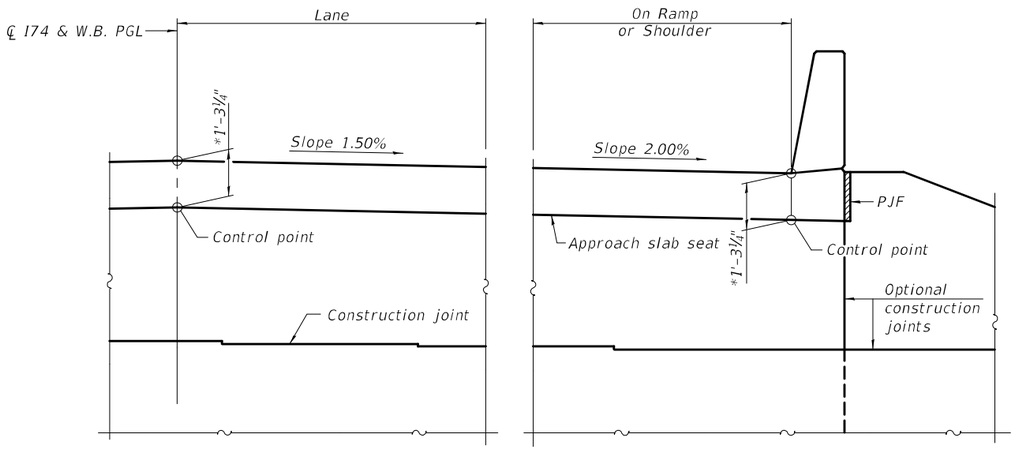
DIAPHRAGM AT ABUTMENT

Looking South
(South Abutment Shown, North Abutment Similar)



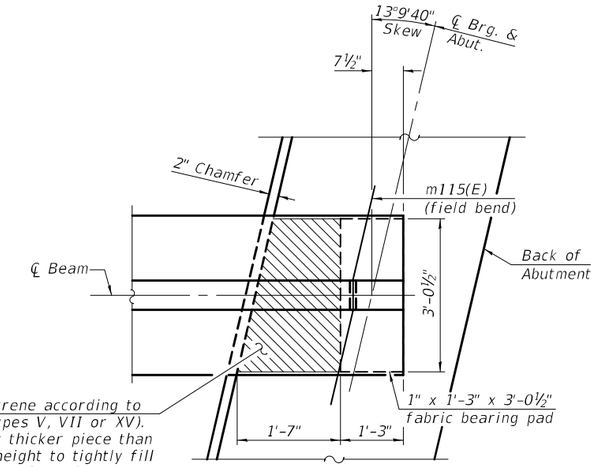
SECTION A-A

(at Rt. ℄'s)



* Prior to Grinding

VIEW B-B



Cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between abutment cap and bottom of beam.

PLAN AT ABUTMENT

(Showing bottom flange of beam)

MINIMUM BAR LAP

#6 bar = 4'-0"

Notes:

See sheet 11 of 34 for superstructure details and Bill of Material.
See sheet 16 of 34 for PJF details.
See sheet 22 of 34 for top flange clip details.
The s110(E), s111(E) and s112(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.
Cost of cellular polystyrene is included with Concrete Superstructure.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037004968510-014 - WB Diaphragm Details.dgn
3/19/2025 12:56:22 PM

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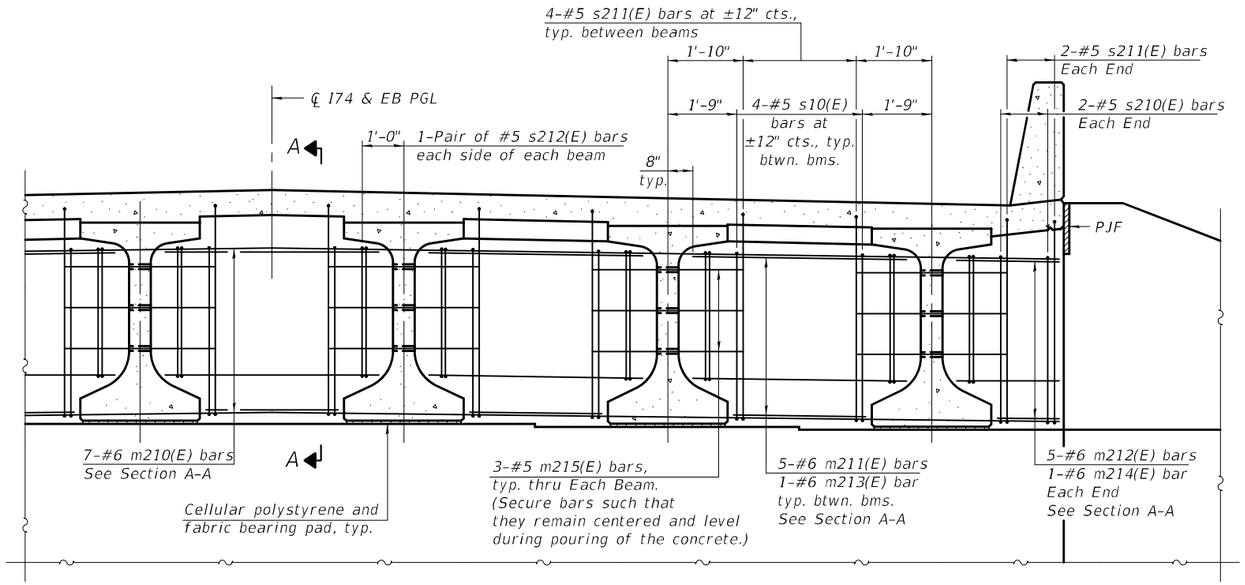
PLOT SCALE = ___	DRAWN - KS	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

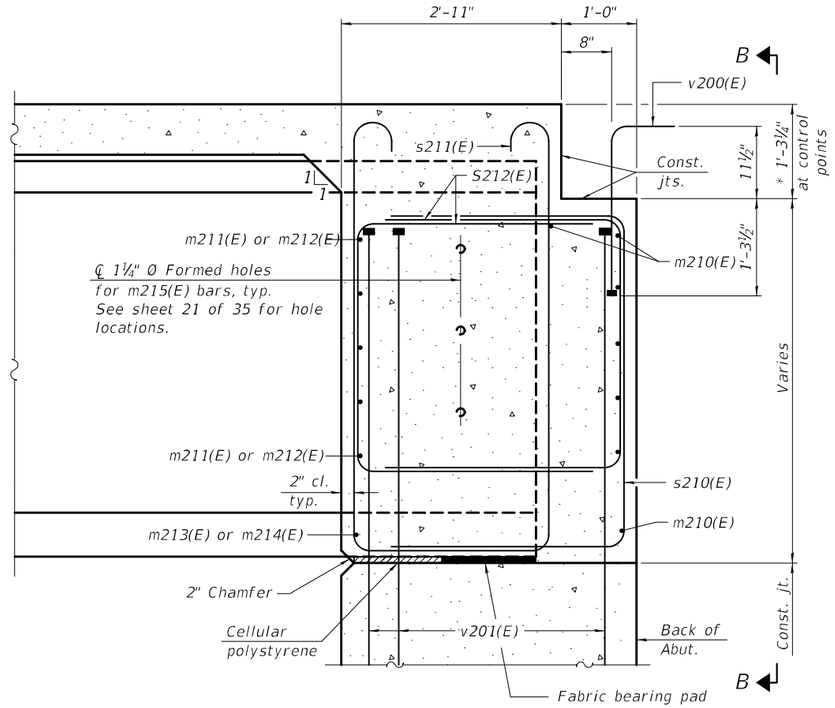
DIAPHRAGM DETAILS
STRUCTURE NO. 037 - 0053 (W.B.)
SHEET 14 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	78
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



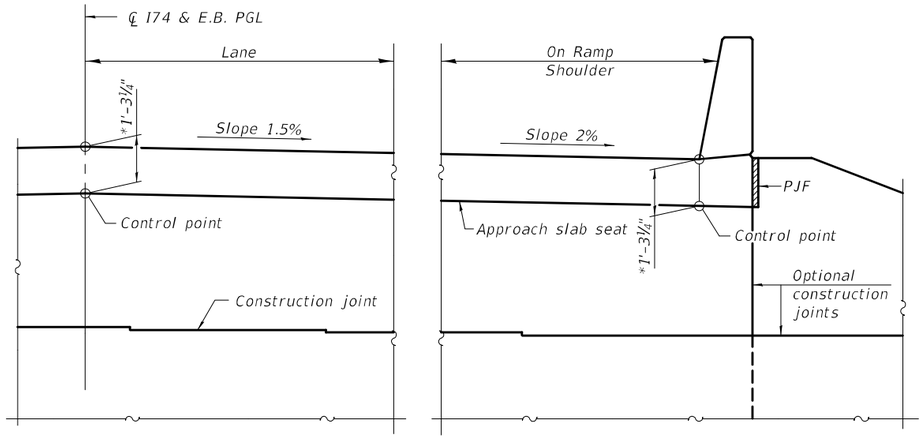
DIAPHRAGM AT ABUTMENT

Looking South
(South Abutment Shown, North Abutment Similar)



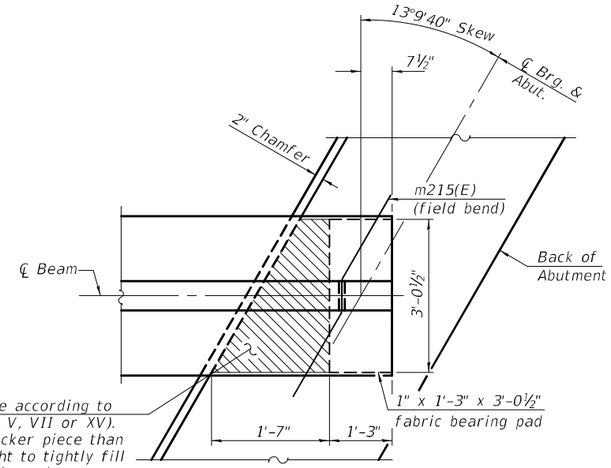
SECTION A-A

(at Rt. ℄'s)



VIEW B-B

* Prior to Grinding



Cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between abutment cap and bottom of beam.

PLAN AT ABUTMENT

(Showing bottom flange of beam)

Notes:

See sheet 13 of 34 for superstructure details and Bill of Material.

See sheet 18 of 34 for PJF details.

See sheet 22 of 34 for top flange clip details.

The s210(E), s211(E) and s212(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

Cost of cellular polystyrene is included with Concrete Superstructure.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-015 - EB Diaphragm Details.dgn
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PLOT SCALE = ___ | DRAWN - KF | REVISED - ___
PLOT DATE = MARCH 19th, 2025 | CHECKED - VRR | REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 15 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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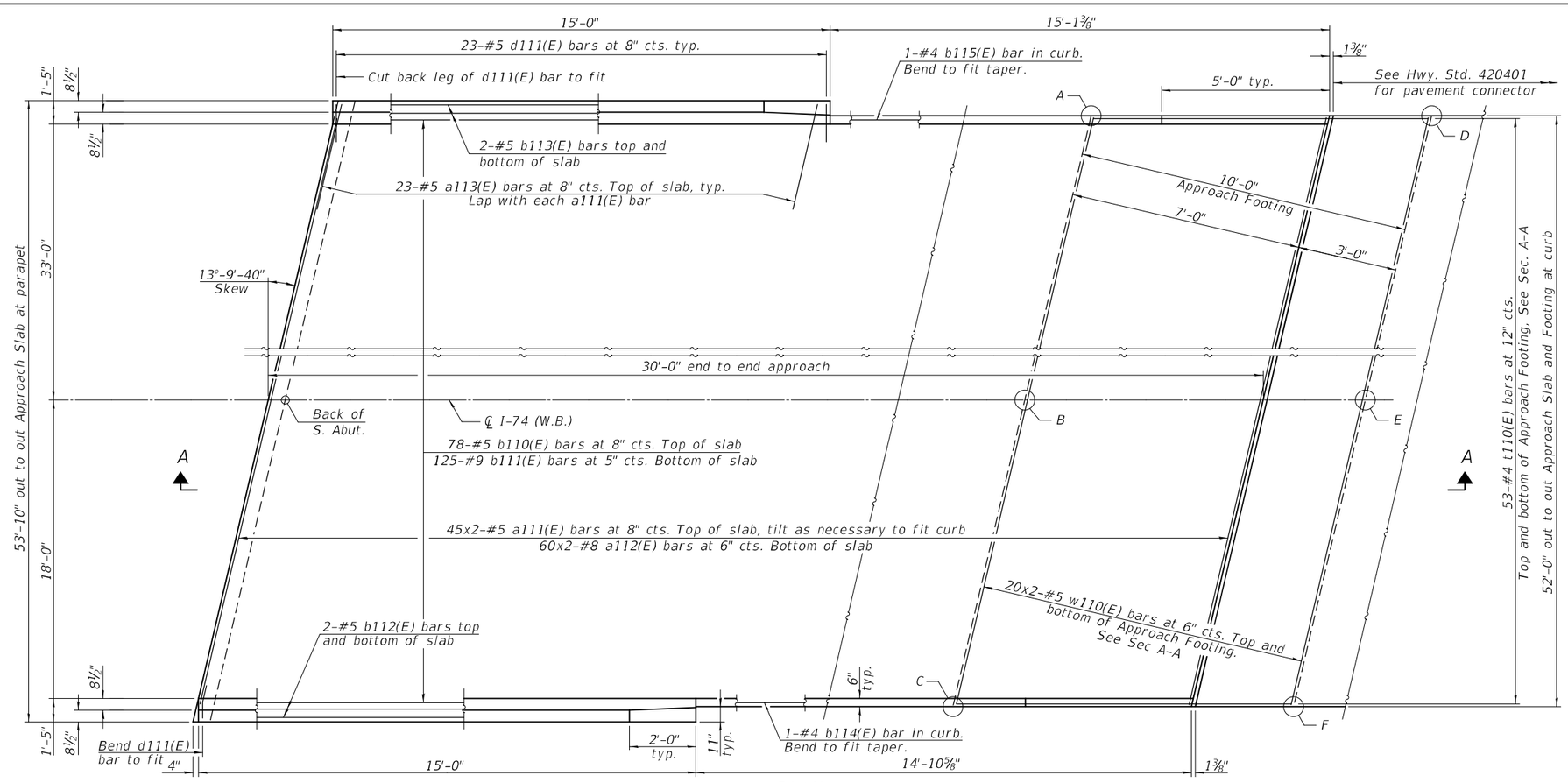
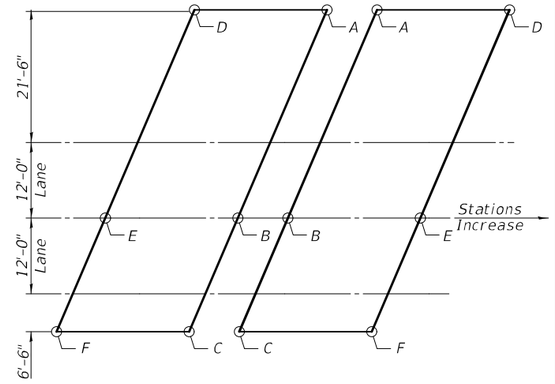
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



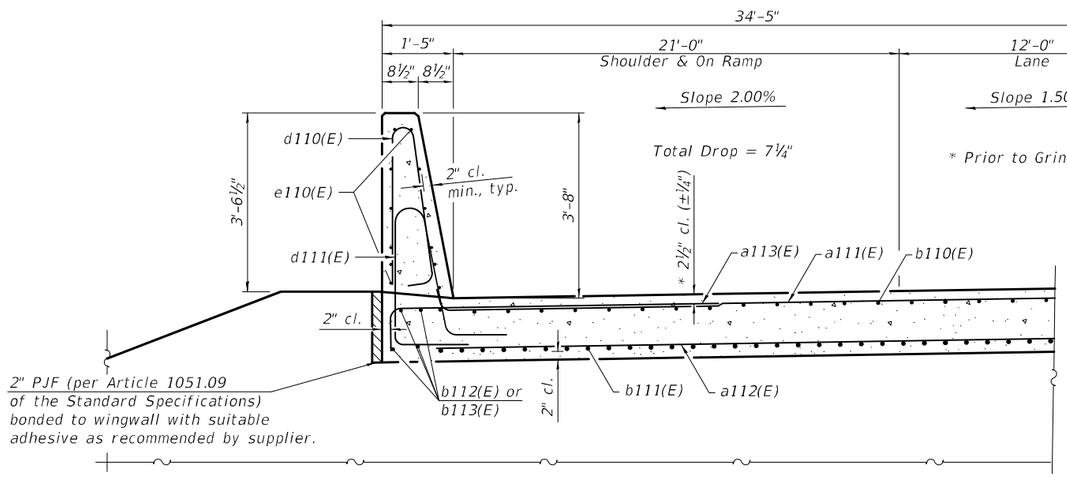
PLAN

(South Approach slab shown; North Approach slab similar.)

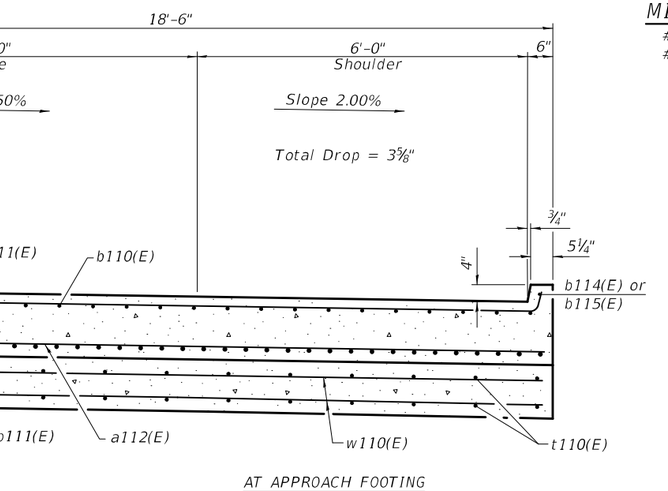


TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTINGS

South Approach			North Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A -	835.96	835.13	A -	836.52	835.69
B -	836.62	835.79	B -	837.12	836.29
C -	836.34	835.51	C -	836.80	835.97
D -	835.89	835.06	D -	836.50	835.67
E -	836.56	835.73	E -	837.10	836.27
F -	836.27	835.44	F -	836.78	835.95



NEAR ABUTMENT



AT APPROACH FOOTING

CROSS SECTION

(Looking South)

MINIMUM LAP

#5 bar = 3'-7"

#8 bar = 5'-1"

(Sheet 1 of 2)

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-016 - WB App. Slab.dgn
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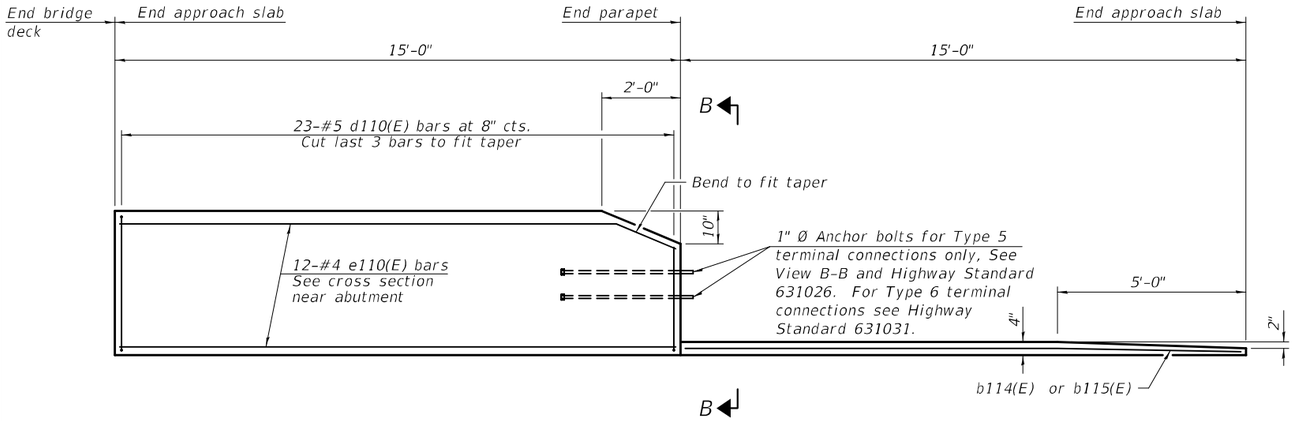
	CHECKED - DJC	REVISED - ___	
PLOT SCALE = ___	DRAWN - KS	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - ___	

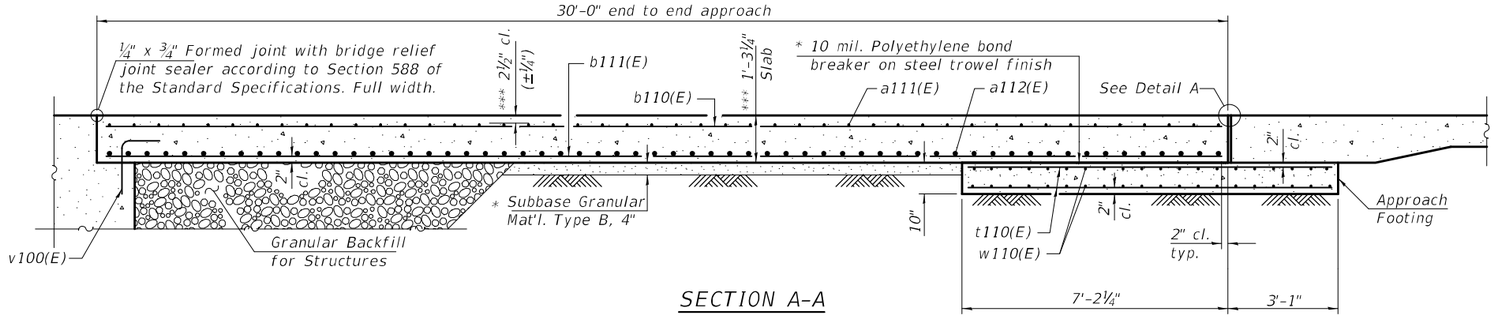
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB PLAN
STRUCTURE NO. 037-0053 (W.B.)
SHEET 16 OF 34 SHEETS

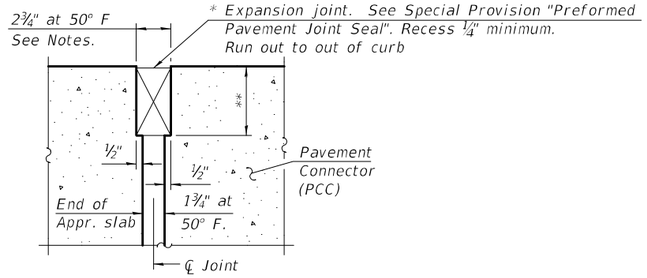
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	80
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A

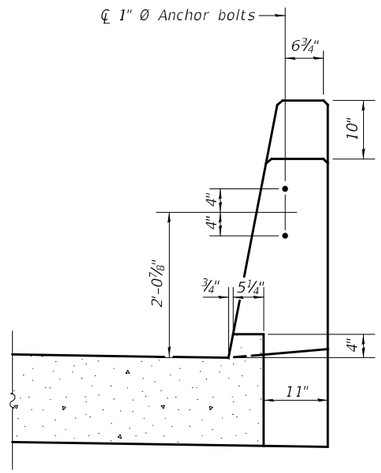


DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

*** Prior to Grinding



VIEW B-B

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

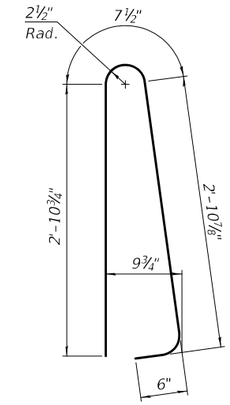
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

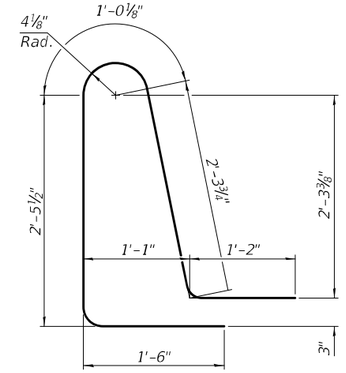
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

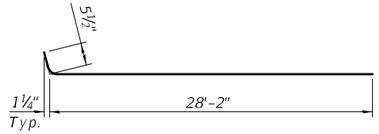
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 34.



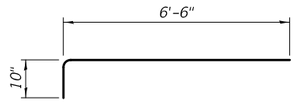
BAR d110(E)



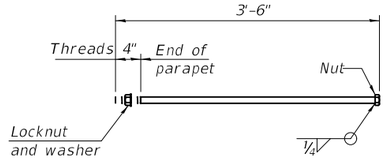
BAR d111(E)



BAR a111(E)



BAR a113(E)



*1" Ø ANCHOR BOLT

(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a111(E)	180	#5	28'-8"	
a112(E)	240	#8	28'-11"	
a113(E)	92	#5	7'-4"	
b110(E)	156	#5	29'-8"	
b111(E)	250	#9	29'-8"	
b112(E)	8	#5	14'-8"	
b113(E)	8	#5	14'-8"	
b114(E)	2	#4	14'-6"	
b115(E)	2	#4	14'-9"	
d110(E)	92	#5	6'-5"	
d111(E)	92	#5	8'-6"	
e110(E)	48	#4	14'-8"	
t110(E)	212	#4	9'-11"	
w110(E)	160	#5	28'-4"	
Concrete Superstructure		Cu. Yd.	8.8	
Concrete Superstructure (Approach Slab)		Cu. Yd.	147.0	
Concrete Structures		Cu. Yd.	33.0	
Reinforcement Bars, Epoxy Coated		Pound	62,980	

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-017 - WB App. Slab Details.dgn
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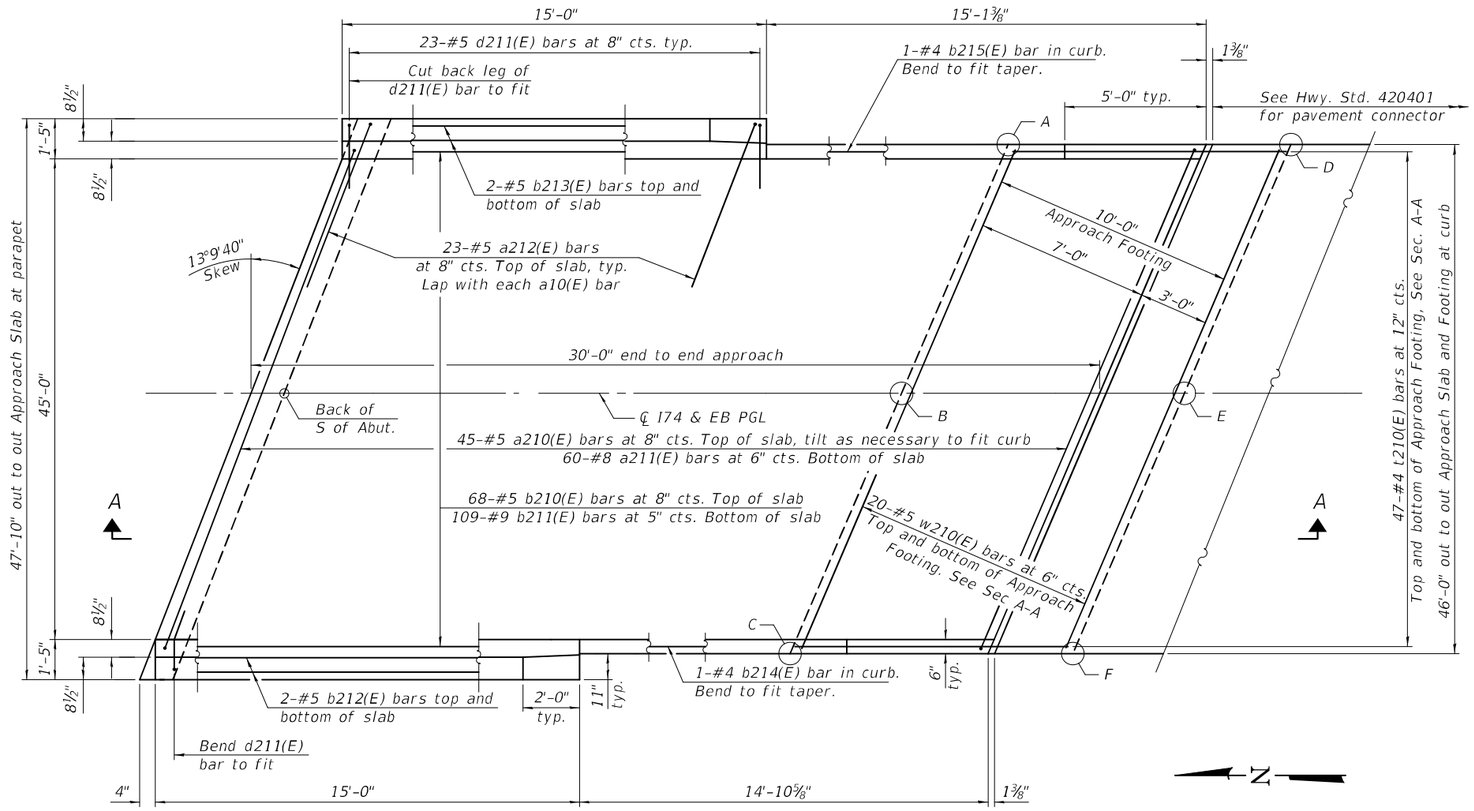
PLOT SCALE = ___	DRAWN - KS	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

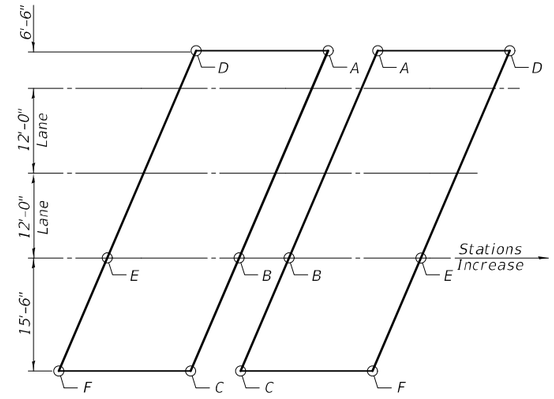
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 037 - 0053 (W.B.)
SHEET 17 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	81
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



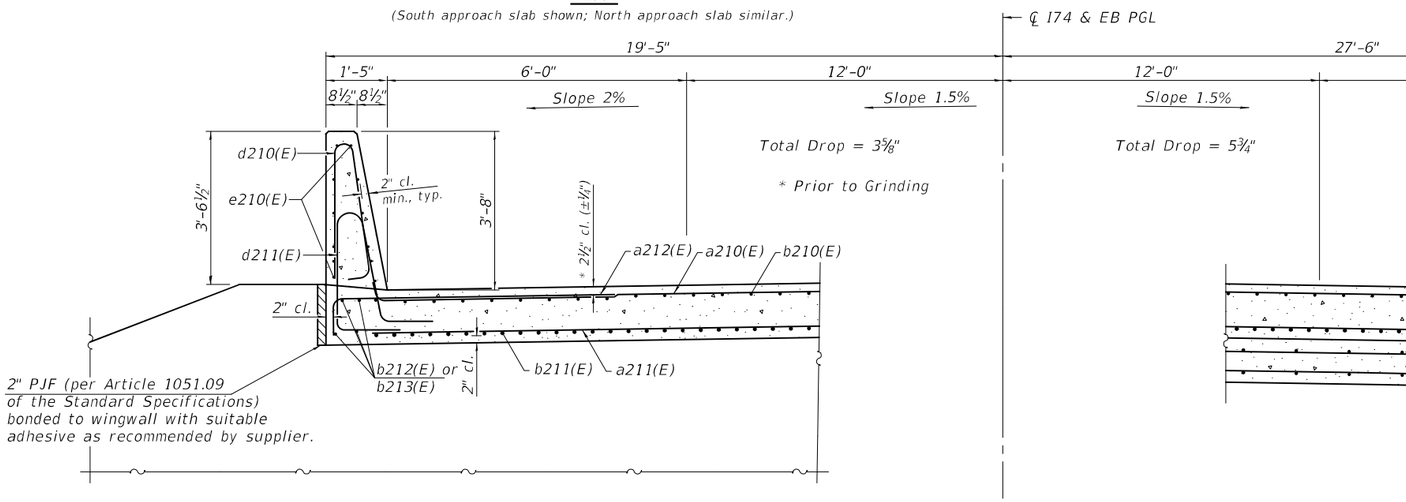
PLAN

(South approach slab shown; North approach slab similar.)



TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

South Approach			North Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A -	836.42	835.58	A -	836.90	836.07
B -	836.76	835.92	B -	837.20	836.37
C -	836.30	835.47	C -	836.70	835.87
D -	836.35	835.52	D -	836.88	836.05
E -	836.69	835.85	E -	837.18	836.35
F -	836.24	835.40	F -	836.68	835.85



NEAR ABUTMENT

CROSS SECTION

(Looking South)

AT APPROACH FOOTING

MINIMUM LAP

#5 bar = 3'-7"

#8 bar = 5'-1"

(Sheet 1 of 2)

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037004968510-018 - EB App. Slab.dgn
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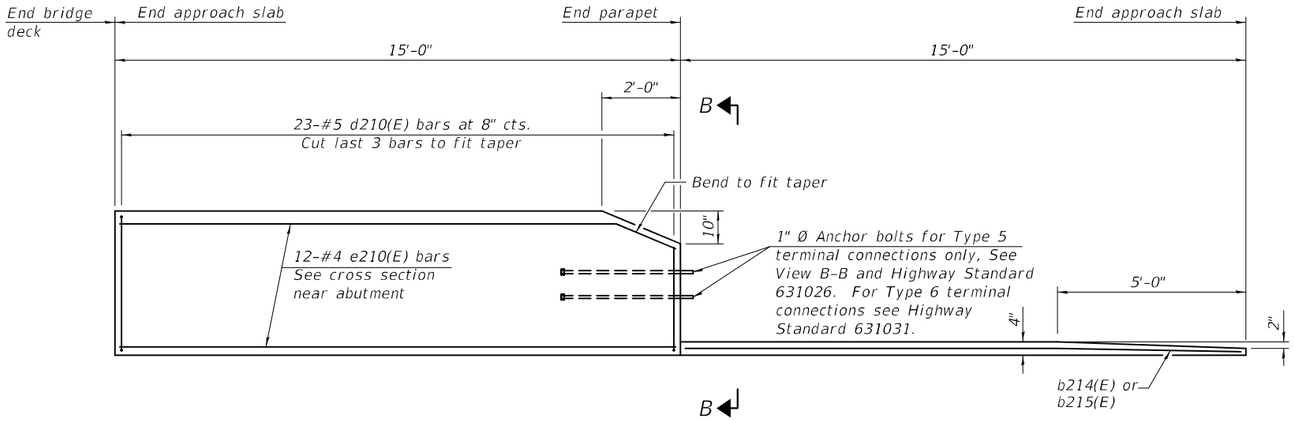
PLOT SCALE = ___ | CHECKED - | REVISED - ___
PLOT DATE = MARCH 19th, 2025 | DRAWN - KF | REVISED - ___
CHECKED - DJC | REVISED - ___

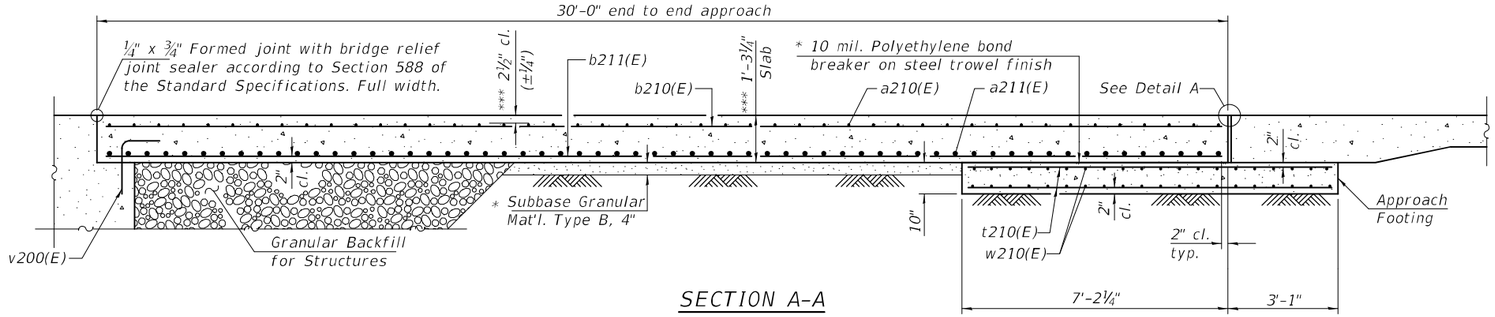
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB PLAN
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 18 OF 34 SHEETS

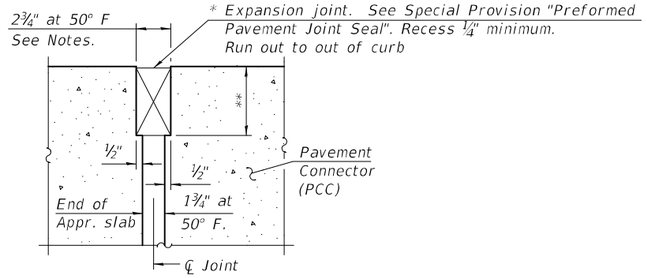
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	82
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A

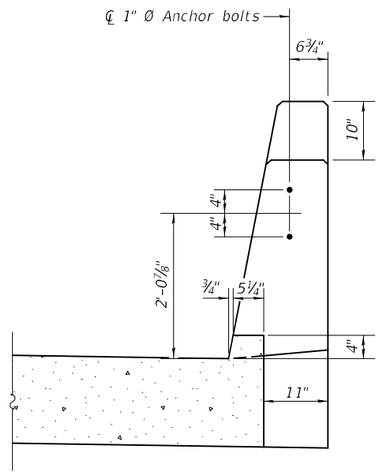


DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

*** Prior to Grinding



VIEW B-B

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

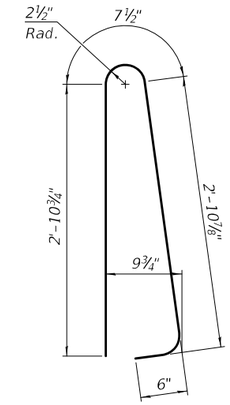
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

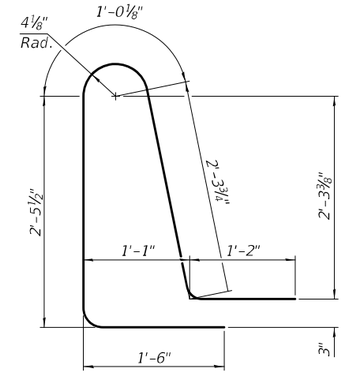
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 34.



BAR d210(E)



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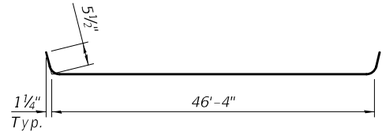

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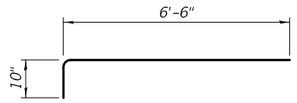
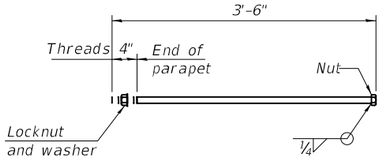


BAR a212(E)



*1" Ø ANCHOR BOLT

(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a210(E)	90	#5	45'-3"	
a211(E)	120	#8	46'-9"	
a212(E)	92	#5	7'-4"	
b210(E)	136	#5	29'-8"	
b211(E)	218	#9	29'-8"	
b212(E)	8	#5	16'-0"	
b213(E)	8	#5	14'-8"	
b214(E)	2	#4	14'-6"	
b215(E)	2	#4	14'-9"	
d210(E)	92	#5	6'-5"	
d211(E)	92	#5	8'-6"	
e210(E)	48	#4	14'-8"	
t210(E)	188	#4	9'-11"	
w210(E)	80	#5	46'-9"	
Concrete Superstructure		Cu. Yd.	8.8	
Concrete Superstructure (Approach Slab)		Cu. Yd.	130.3	
Concrete Structures		Cu. Yd.	29.2	
Reinforcement Bars, Epoxy Coated		Pound	53,480	

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-019 -EB App. Slab Details.dgn
3/19/2025 12:56:25 PM

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = ___ | DESIGNED - DJC | REVISED - ___
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CHECKED - VRR | REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 19 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	83
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

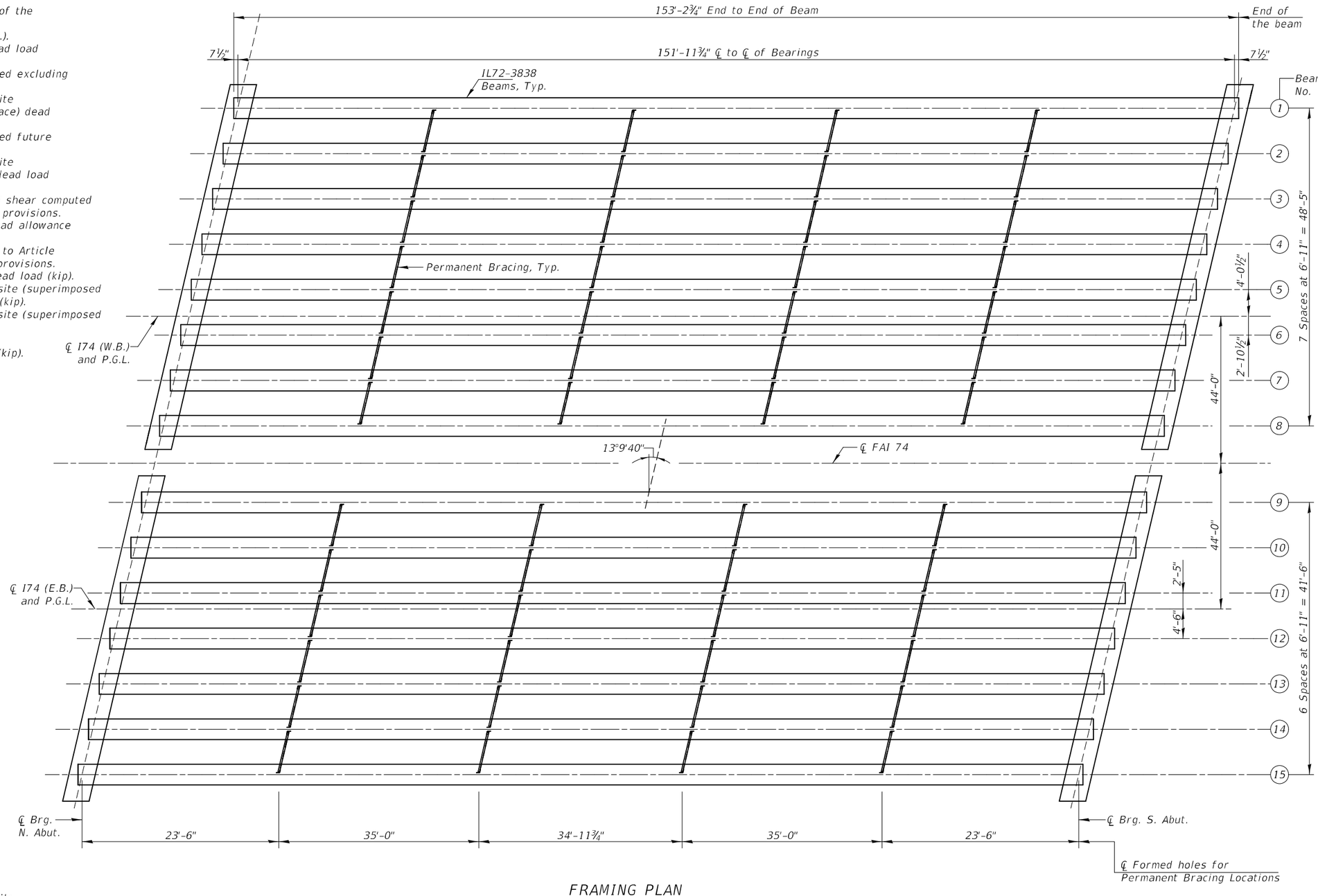
I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
OCF: Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
R_L: Un-factored live load reaction (kip).
R_{IM}: Un-factored dynamic load allowance (impact) (kip).

R_{Total} (Strength I)(Impact): Total factored reaction including dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(No Impact): Total factored reaction not including dynamic load allowance (impact) (kip).

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in^4)	738236
I'	(in^4)	1381463
S_b	(in^3)	22856
S_b'	(in^3)	29902
S_t	(in^3)	18595
S_t'	(in^3)	53545
DC1	(k/')	1.874
M_{DC1}	('k)	5,411
DC2	(k/')	0.163
M_{DC2}	('k)	471
DW	(k/')	0.346
M_{DW}	('k)	999
LLDF	('k)	0.586
M_{L+IM}	('k)	2998

INTERIOR BEAM REACTION TABLE		
		Abutments
LLDF	(k)	0.737
OCF	(k)	1.031
R_{DC1}	(k)	142.4
R_{DC2}	(k)	12.4
R_{DW}	(k)	26.3
R_L	(k)	88.6
R_{IM}	(k)	16.9
R_{Total} (Strength I)(Impact)	(k)	417.6
R_{Total} (Strength I)(No Impact)	(k)	388.0

Note:
See sheet 22 of 34 for Permanent Bracing details.



FRAMING PLAN

N

MODEL: Default
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IL. Design Firm No. 184-001939

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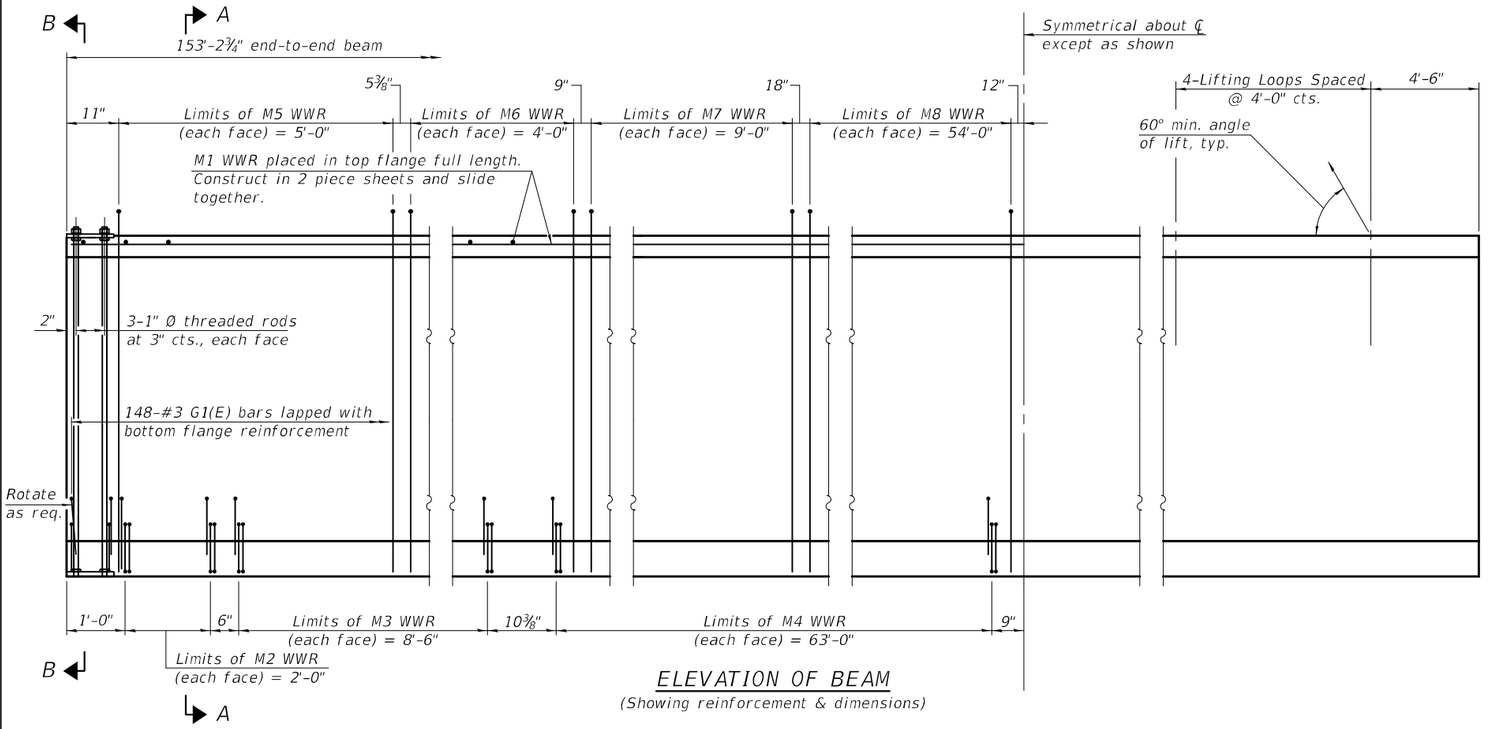
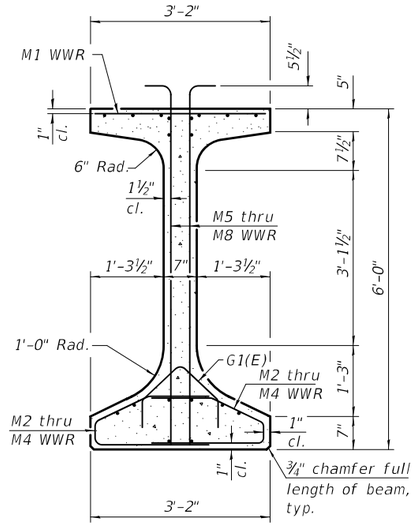
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 037-0049 (E.B.) & 037-0053 (W.B.)
SHEET 20 OF 34 SHEETS

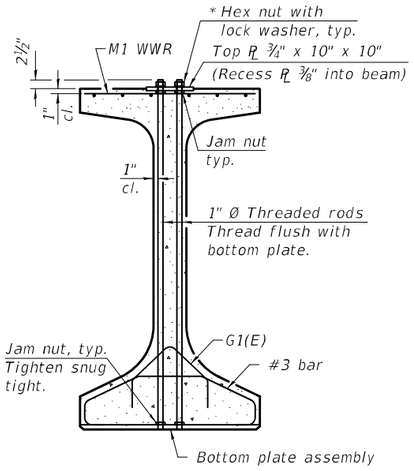
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	84
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



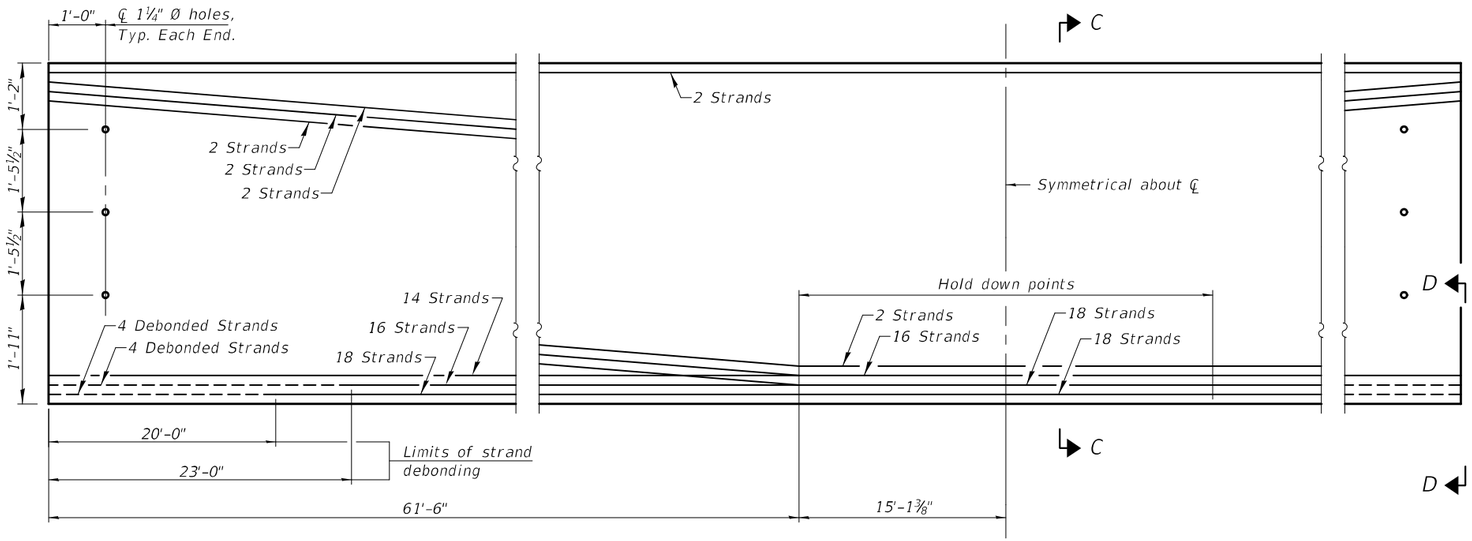
ELEVATION OF BEAM
(Showing reinforcement & dimensions)



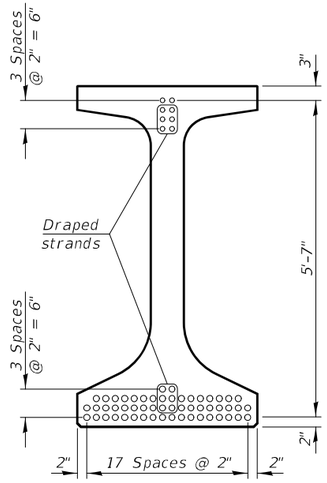
SECTION A-A



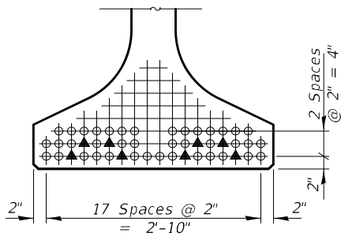
SECTION B-B
*Only tighten sufficiently to compress lock washers



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C
(56-0.6" Ø 270 ksi strands)
Strand Pattern 54B-2T-8db-6d



VIEW D-D

○ Fully bonded strand

▲ Partially debonded strand

Note:
See sheet 22 of 34 for additional details and Bill of Material.

MODEL: Default
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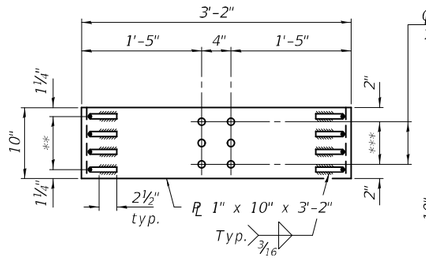
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL72 BEAM
STRUCTURE NO. 037 - 0049 (E.B.) & 037 - 0053 (W.B.)
SHEET 21 OF 34 SHEETS

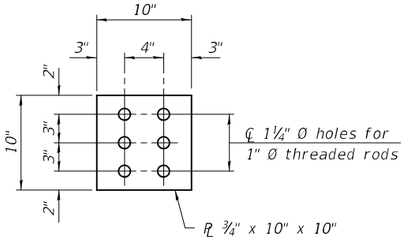
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	85
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



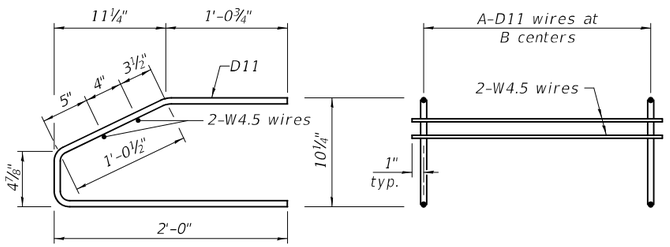
SECTION E-E

** 3 Spaces at 2½" = 7½"

*** 2 Spaces at 3" = 6"

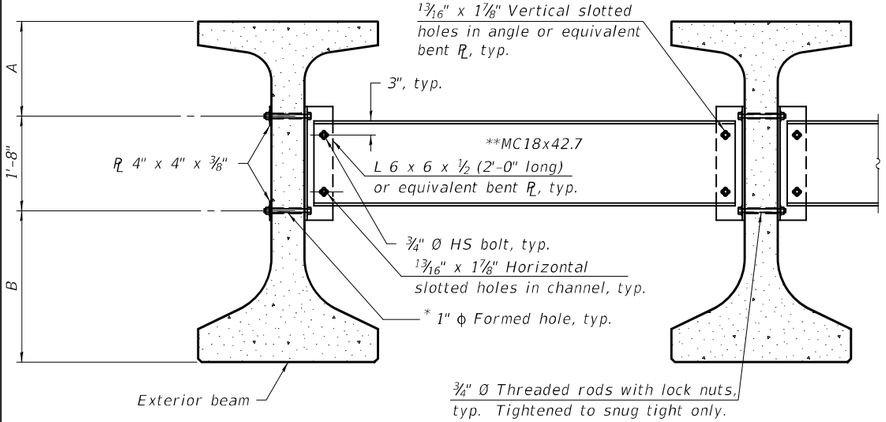


PLAN - TOP PLATE



M2 THRU M4 WWR DETAIL

(See Table of Dimensions)



Beam	A	B
IL63	1'-4"	2'-3"
IL72	1'-8"	2'-8"

* Fabricator shall locate to miss strands within permissible tolerances.

** Alternate MC18x45.8 channels are permitted to facilitate material acquisition.

Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.

Two hardened washers are required for each set of oversized holes.

All holes shall be 15/16" Ø unless otherwise noted.

5/16" x 3" x 3" plate washers are required over all slotted holes.

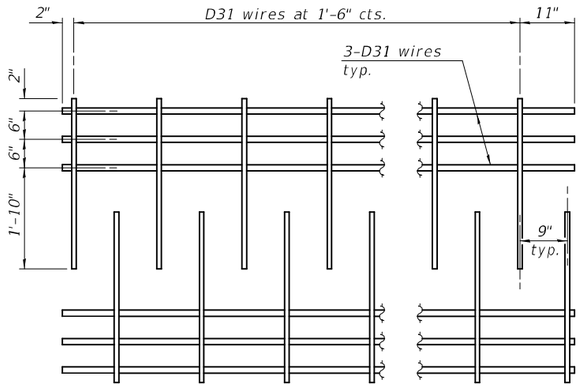
All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

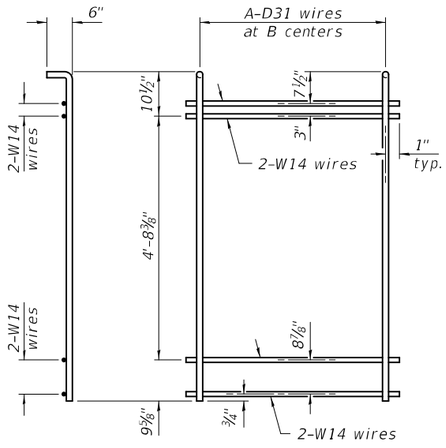
Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

PERMANENT BRACING DETAILS FOR IL63 AND IL72 BEAMS



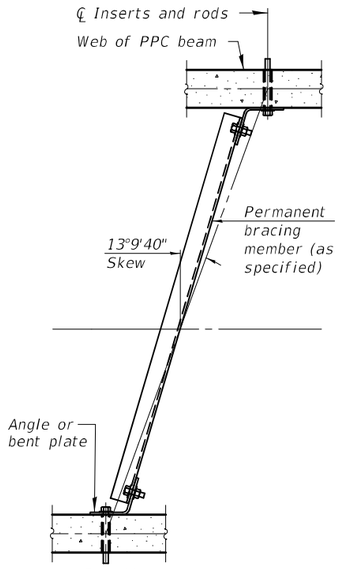
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M5 THRU M8 WWR DETAIL

(See Table of Dimensions)



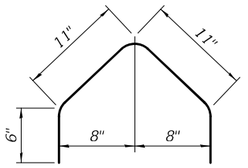
PLAN

(When skewed bracing is specified)

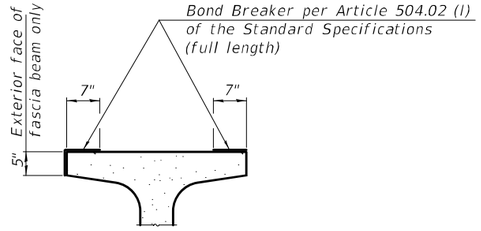
TABLE OF DIMENSIONS

(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

WWR	A	B
M2	9	3"
M3	18	6"
M4	43	1'-6"
M5	21	3"
M6	9	6"
M7	10	1'-0"
M8	28	2'-0"

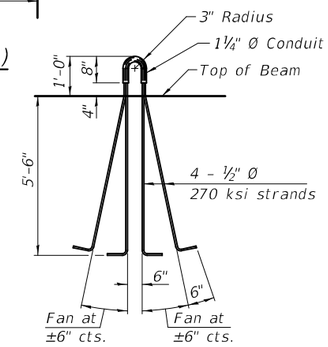


BAR G1(E)

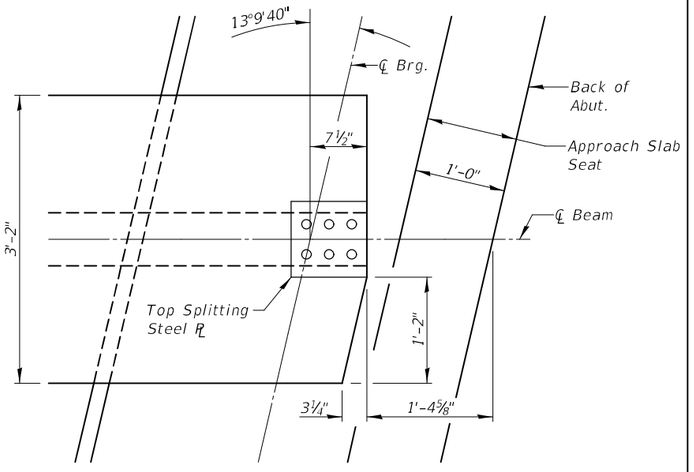


SECTION THRU TOP FLANGE

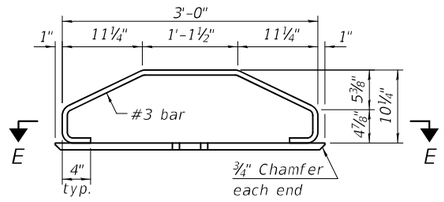
(Showing limits of bond breaker)



LIFTING LOOP DETAIL



TOP FLANGE CLIP DETAIL



ELEVATION - BOTTOM PLATE ASSEMBLY

NOTES

Inserts for ¾" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be ½" and the nominal cross sectional area shall be 0.153 sq. in.

The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi.

A minimum 2½" Ø lifting pin shall be used to engage the lifting loops during handling.

The top and bottom plates shall be AASHTO M270 Grade 50.

The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.

WESTBOUND BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL72	Ft.	1226

EASTBOUND BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL72	Ft.	1073

VEENSTRA & KIMM INC.
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IL. Design Firm No. 184-001939

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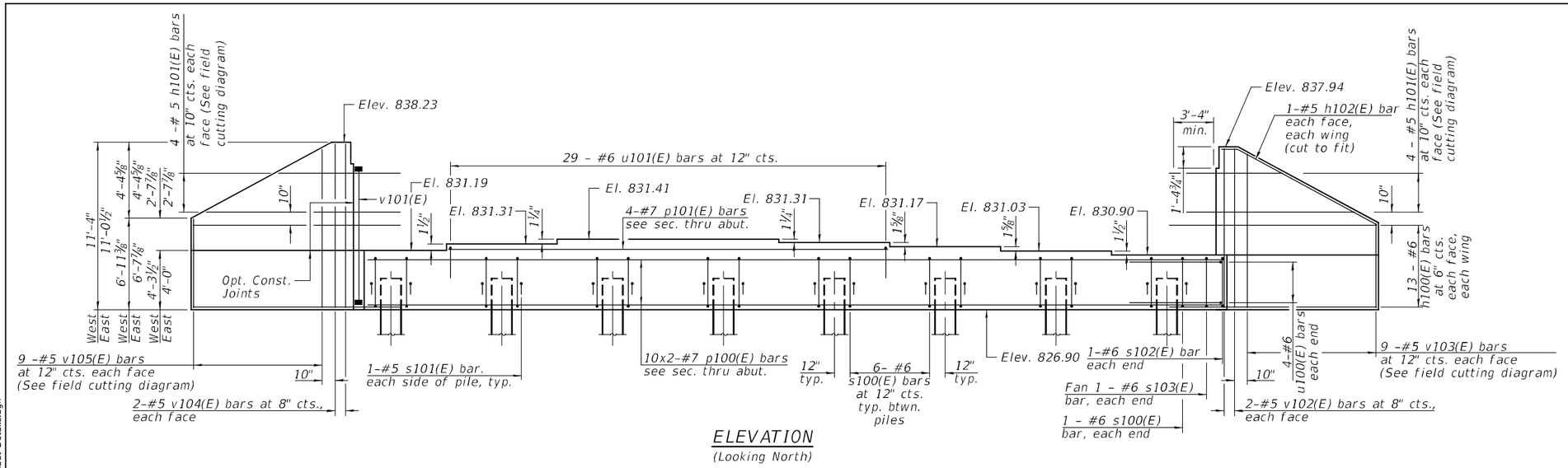
PLOT SCALE = ___ | DRAWN - DJC | REVISED - ___
PLOT DATE = MARCH 19th, 2025 | CHECKED - VRR | REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

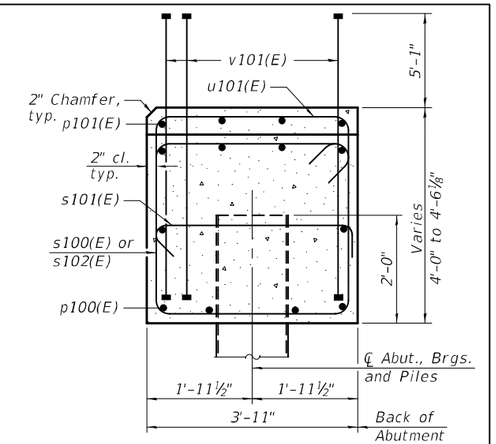
IL72 BEAM & PERMANENT BRACING DETAILS
STRUCTURE NO. 037-0049 (E.B.) & 037-0053 (W.B.)
SHEET 22 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	86
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

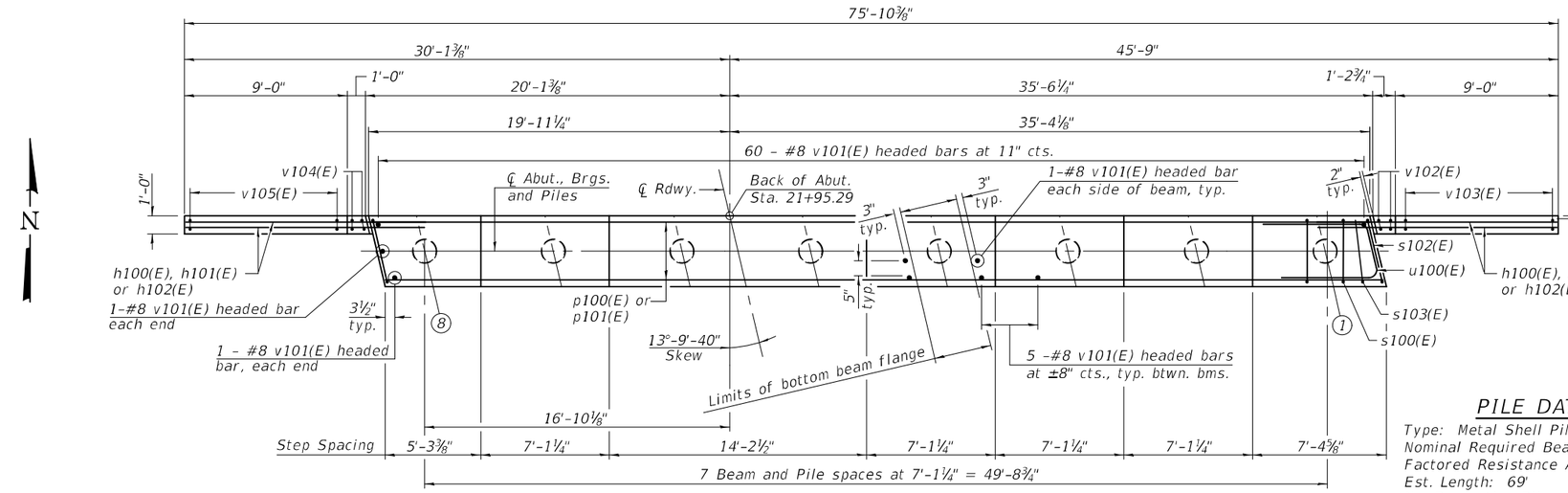
MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\(0370049-68510-022 - IL 72 Beam Details.dgn
3/19/2025 12:56:27 PM



ELEVATION
(Looking North)



SEC. THRU ABUT.
Dimensions at right angles to abutment.

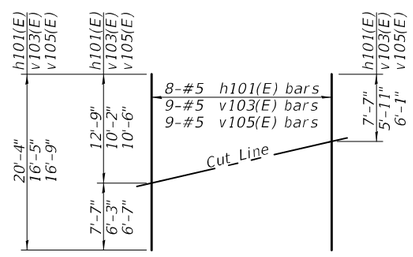


PLAN

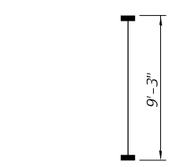
MINIMUM LAP
#7 bar - 5'-0"

PILE DATA
Type: Metal Shell Piles, 16"x0.375" with Pile Shoes
Nominal Required Bearing: 768 kips
Factored Resistance Available: 422 kips
Est. Length: 69'
No. Production Piles: 7
No. Test Piles: 1

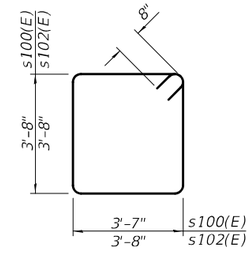
Pile driving for the North Abutment shall not commence until 95% of the anticipated settlement has occurred.



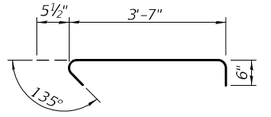
FIELD CUTTING DIAGRAM
Order h101(E), v103(E), and v105(E) full length.
Cut as shown and use remainder of bars in opposite face.



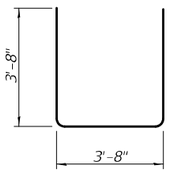
BAR v101(E)
(Headed 230-#8 Bar Terminators)



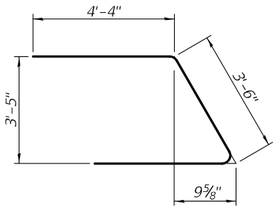
BAR s100(E) & s102(E)



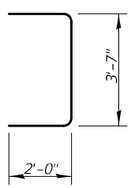
BAR s101(E)



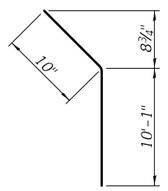
BAR s103(E)



BAR u100(E)



BAR u101(E)



BAR h102(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h100(E)	52	#6	13'-7"	
h101(E)	8	#5	20'-4"	
h102(E)	4	#5	10'-11"	
h105(E)	24	#4	3'-8"	
h106(E)	4	#4	3'-0"	
h107(E)	4	#4	4'-1"	
h108(E)	2	#4	2'-3"	
n100(E)	6	#4	7'-0"	
n101(E)	6	#4	6'-7"	
p100(E)	20	#7	30'-0"	
p101(E)	4	#7	28'-2"	
s100(E)	44	#6	15'-10"	
s101(E)	16	#5	4'-7"	
s102(E)	2	#6	16'-0"	
s103(E)	2	#6	11'-0"	
u100(E)	8	#6	12'-2"	
u101(E)	29	#6	7'-7"	
v101(E)	115	#8	9'-3"	
v102(E)	4	#5	10'-7"	
v103(E)	9	#5	16'-5"	
v104(E)	4	#5	10'-11"	
v105(E)	9	#5	16'-9"	
v108(E)	6	#4	6'-6"	
v109(E)	6	#4	6'-1"	
z100(E)	10	#4	2'-1"	
z101(E)	10	#4	3'-11"	
Structure Excavation	Cu. Yd.		272.9	
Concrete Structures	Cu. Yd.		42.8	
Reinforcement Bars, Epoxy Coated	Pound		7880	
Furnishing Metal Shell Piles 16"x0.375"	Foot		483	
Driving Piles	Foot		483	
Test Pile Metal Shells	Each		1	
Bar Terminators	Each		230	
Pile Shoes	Each		8	

Notes:
Pour steps monolithically with cap.
See sheet 25 for wingwall extensions.
Bar terminators, paid for separately.
See Total Bill of Material.
For details of piles see sheet 29 of 34.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037004968510-023 - WB N Abut Details.dgn
3/19/2025 12:56:28 PM

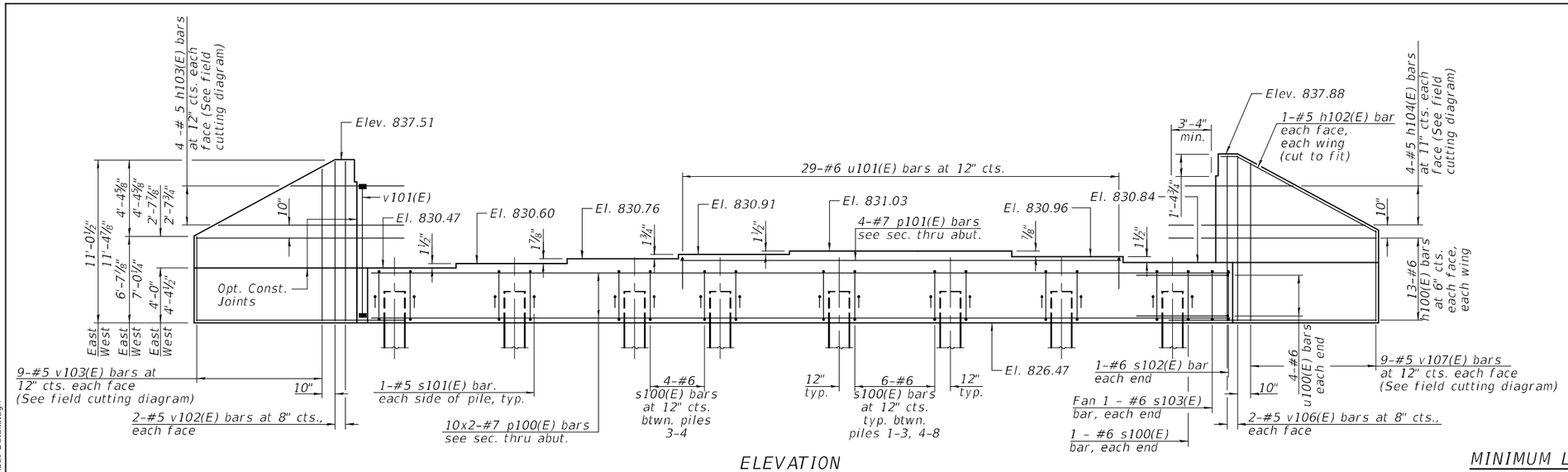
VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = __ | DESIGNED - KS | REVISED - __
PLOT SCALE = __ | CHECKED - DJC | REVISED - __
PLOT DATE = MARCH 19th, 2025 | DRAWN - KS | REVISED - __
CHECKED - DJC | REVISED - __

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

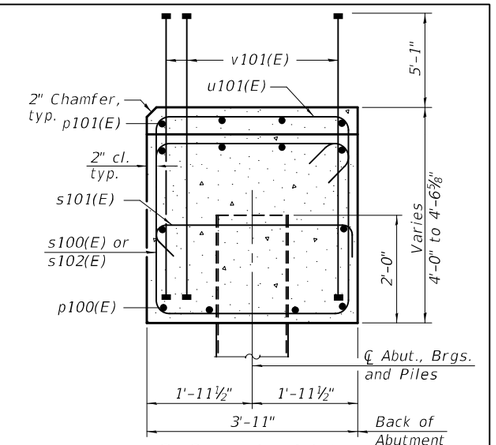
NORTH ABUTMENT DETAILS
STRUCTURE NO. 037-0053 (W.B.)
SHEET 23 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-I	HENRY	127	87
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(Looking South)

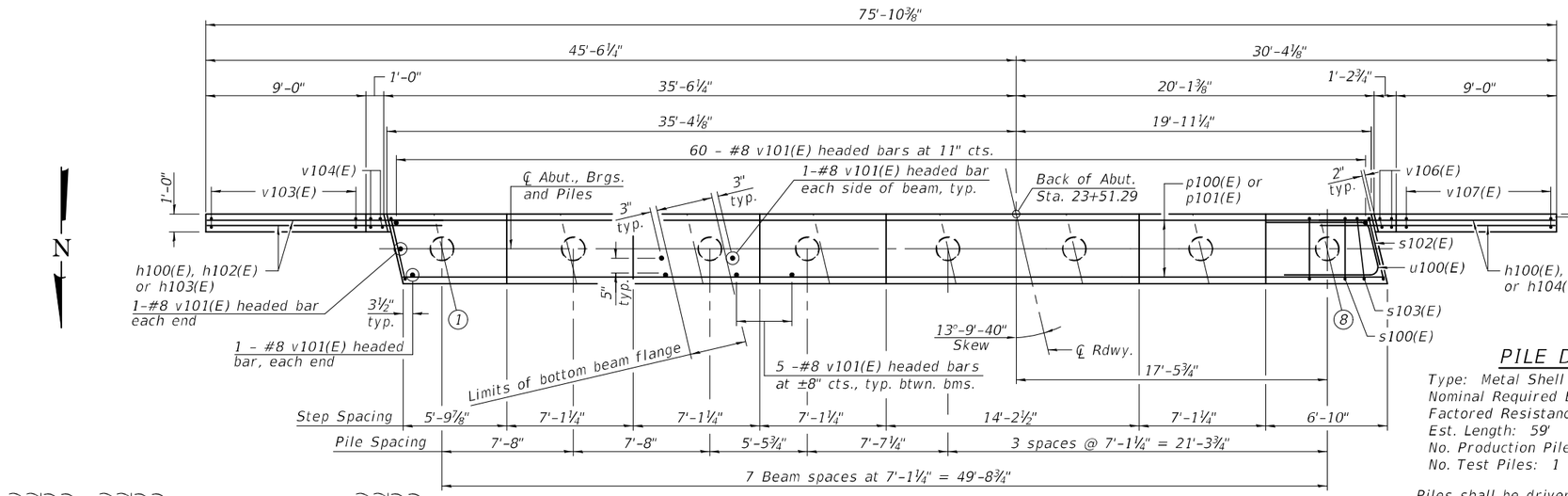


SEC. THRU ABUT.

Dimensions at right angles to abutment.

MINIMUM LAP

#7 bar - 5'-0"



PLAN

BAR h102(E)

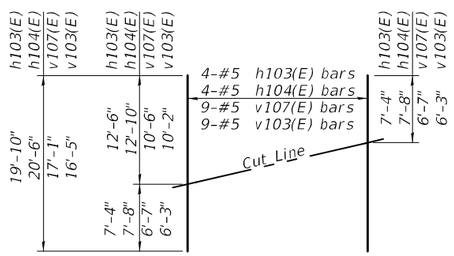
PILE DATA

Type: Metal Shell Piles, 16"x0.375" with Pile Shoes
Nominal Required Bearing: 736 kips
Factored Resistance Available: 405 kips
Est. Length: 59'
No. Production Piles: 7
No. Test Piles: 1

Piles shall be driven through 24 inch diameter precored holes extending to elevation 816.47 according to Article 512.09(c) of the Standard Specifications. Holes shall be filled with Bentonite after pile driving. Cost included in Driving Piles.

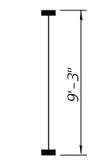
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h100(E)	52	#6	13'-7"	
h102(E)	4	#5	10'-11"	
h103(E)	4	#5	19'-10"	
h104(E)	4	#5	20'-6"	
h105(E)	24	#4	3'-8"	
h106(E)	4	#4	3'-0"	
h107(E)	4	#4	4'-1"	
h108(E)	4	#4	2'-3"	
n100(E)	6	#4	7'-0"	
n101(E)	6	#4	6'-7"	
p100(E)	20	#7	30'-0"	
p101(E)	4	#7	28'-2"	
s100(E)	42	#6	15'-10"	
s101(E)	16	#5	4'-7"	
s102(E)	2	#6	16'-0"	
s103(E)	2	#6	11'-0"	
u100(E)	8	#6	12'-2"	
u101(E)	29	#6	7'-7"	
v101(E)	115	#8	9'-3"	
v102(E)	4	#5	10'-7"	
v103(E)	9	#5	16'-5"	
v106(E)	4	#5	10'-11"	
v107(E)	9	#5	17'-1"	
v108(E)	6	#4	6'-6"	
v109(E)	6	#4	6'-3"	
z100(E)	10	#4	2'-1"	
z101(E)	10	#4	3'-11"	
Structure Excavation		Cu. Yd.	272.9	
Concrete Structures		Cu. Yd.	42.9	
Reinforcement Bars, Epoxy Coated		Pound	7840	
Furnishing Metal Shell Piles 16"x0.375"		Foot	413	
Driving Piles		Foot	413	
Test Pile Metal Shells		Each	1	
Bar Terminators		Each	230	
Pile Shoes		Each	8	



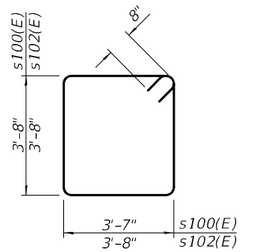
FIELD CUTTING DIAGRAM

Order h103(E), v107(E), and v103(E) full length.
Cut as shown and use remainder of bars in opposite face.

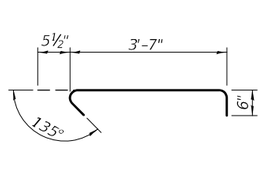


BAR v101(E)

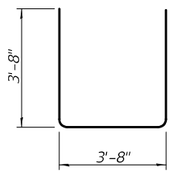
(Headed 230-#8 Bar Terminators)



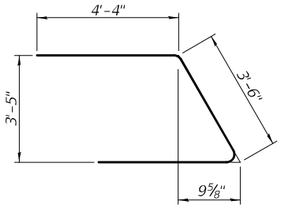
BAR s100(E) & s102(E)



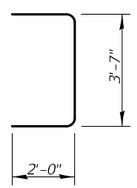
BAR s101(E)



BAR s103(E)



BAR u100(E)



BAR u101(E)

Notes:
Pour steps monolithically with cap.
See sheet 25 for wingwall extensions.
Bar terminators, paid for separately.
See Total Bill of Material.
For details of piles see sheet 29 of 34.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037004968510-024 - WB S Abut Details.dgn
3/19/2025 12:56:29 PM

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

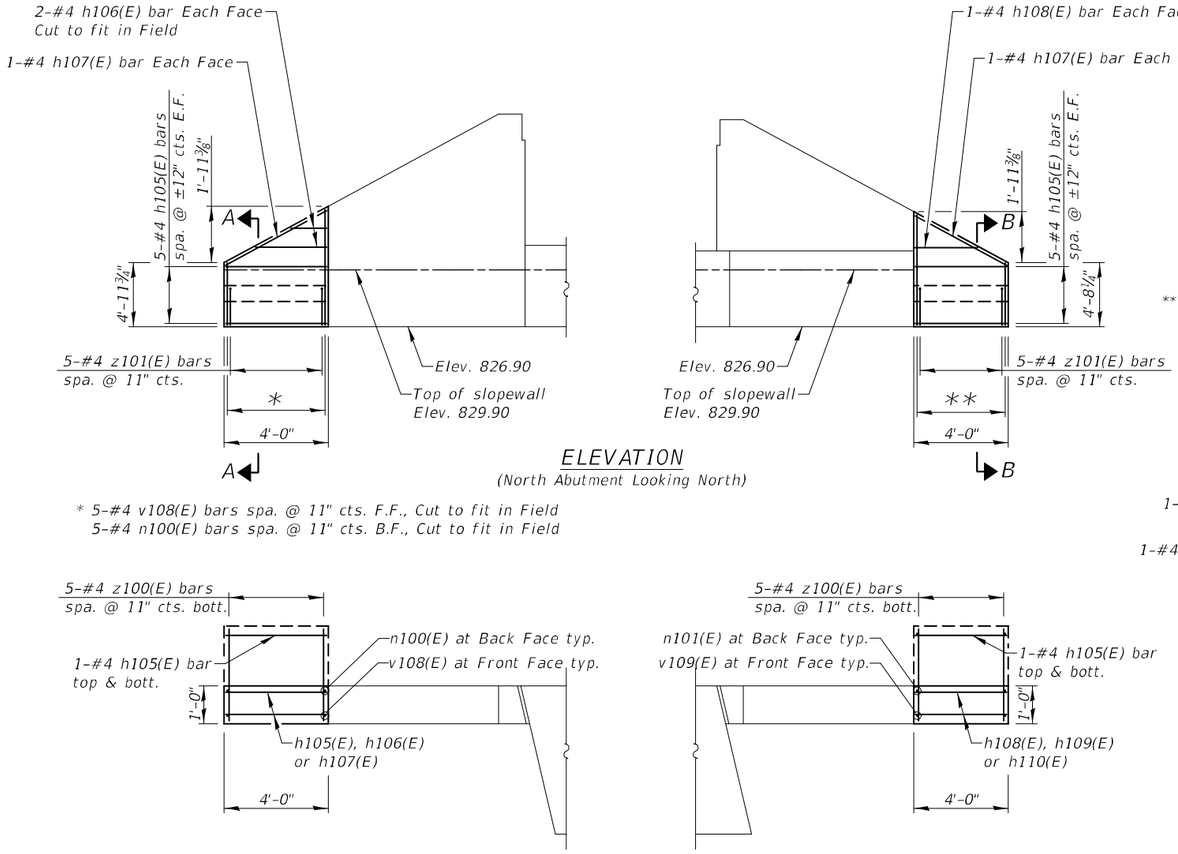
USER NAME = ___	DESIGNED - KS	REVISED - ___	
	CHECKED - DJC	REVISED - ___	
PLOT SCALE = ___	DRAWN - KS	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 037 - 0053 (W.B.)

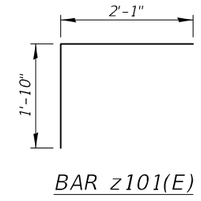
SHEET 24 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	88
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



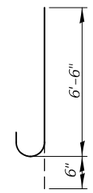
ELEVATION
(North Abutment Looking North)

* 5-#4 v108(E) bars spa. @ 11" cts. F.F., Cut to fit in Field
5-#4 n100(E) bars spa. @ 11" cts. B.F., Cut to fit in Field

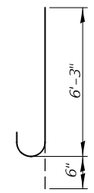


BAR z101(E)

** 5-#4 v109(E) bars spa. @ 11" cts. F.F., Cut to fit in Field
5-#4 n101(E) bars spa. @ 11" cts. B.F., Cut to fit in Field



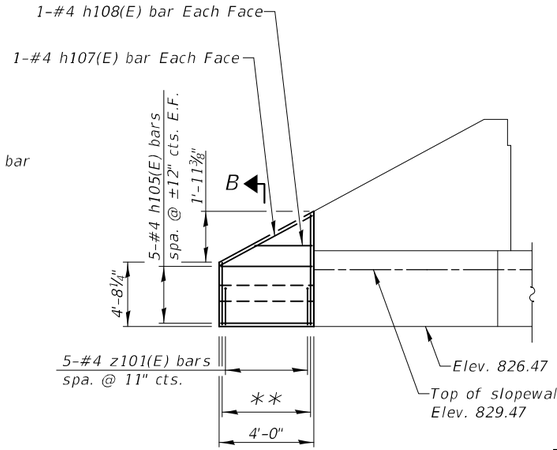
BAR n100(E)

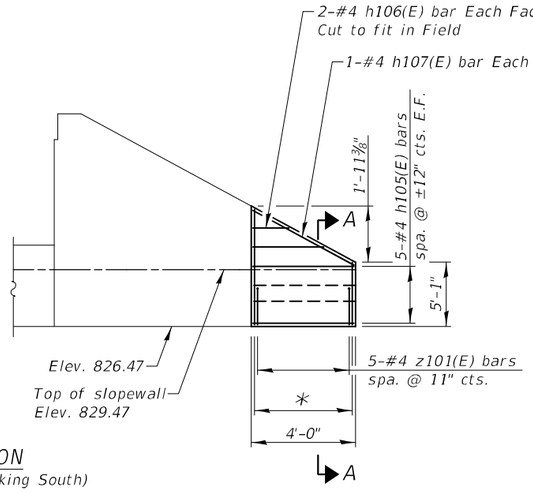


BAR n101(E)

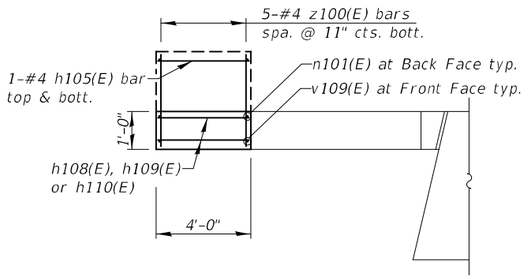
Note:
Cut n100(E) & n101(E) bars in field to fit

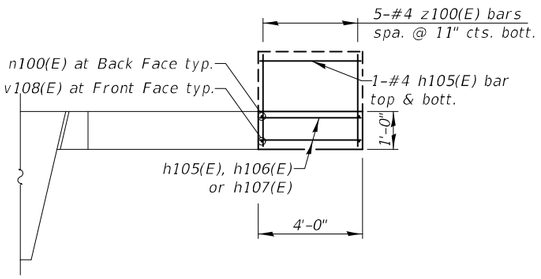
PLAN
North Abutment



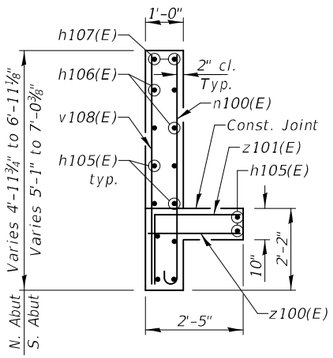


ELEVATION
(South Abutment Looking South)

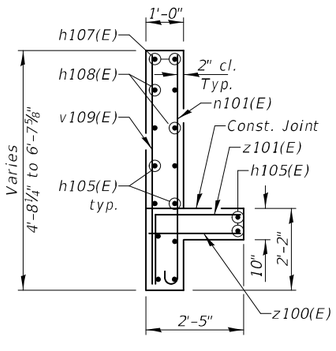




PLAN
South Abutment



SECTION A-A



SECTION B-B

Notes:
The joint between the dog ear wingwall and the wingwall extension shall be sealed with a fabric reinforced elastomeric mat.
Reinforcement schedule and quantity and concrete quantities are included in the Bills of Material on sheets 23 and 24.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037004949-68510-025 - WB Wingwall Extensions.dgn
3/19/2025 12:56:30 PM

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

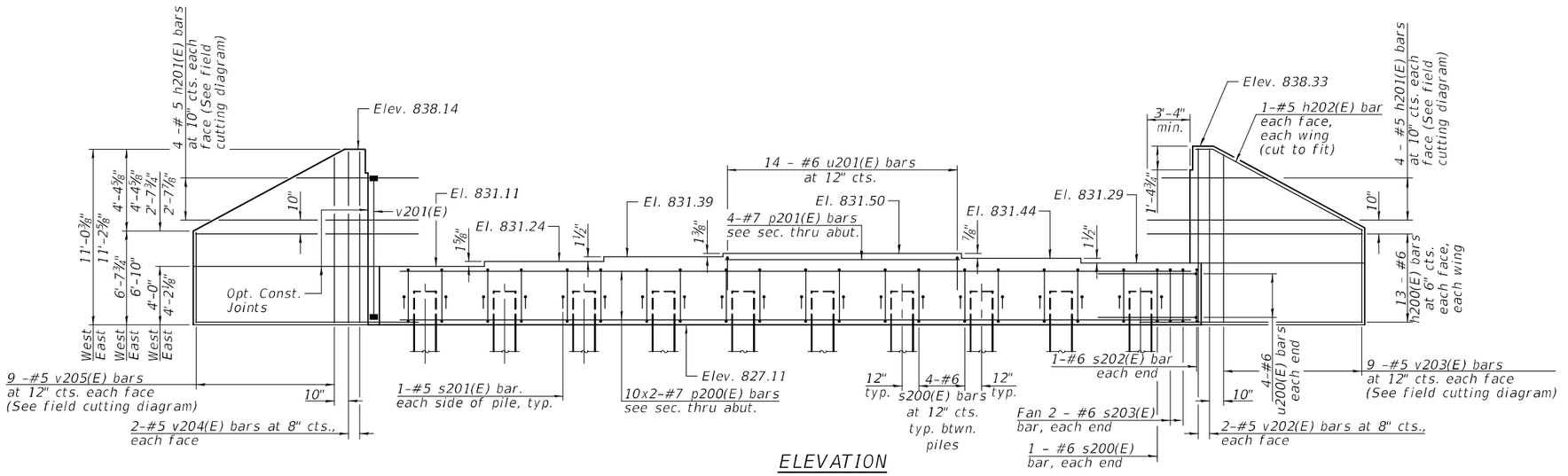
USER NAME = ___	DESIGNED - DJC	REVISED - ___	
	CHECKED - MAH	REVISED - ___	
PLOT SCALE = ___	DRAWN - DJC	REVISED - ___	
PLOT DATE = MARCH 19th, 2025	CHECKED - MAH	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

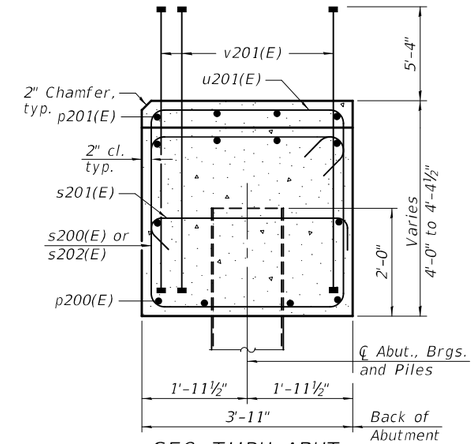
WINGWALL EXTENSIONS DETAILS
STRUCTURE NO. 037 - 0053 (W.B.)

SHEET 25 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	89
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

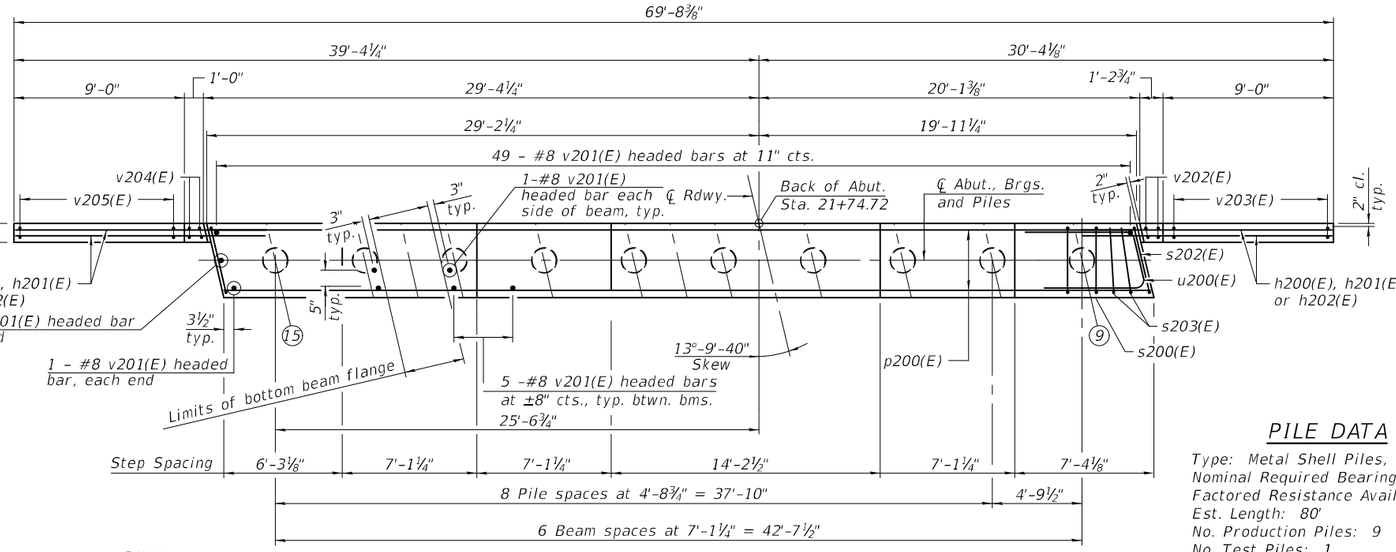


ELEVATION
(Looking North)

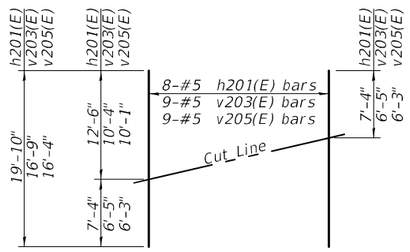


SEC. THRU ABUT.
Dimensions at right angles to abutment.

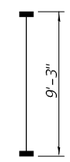
MINIMUM LAP
#7 bar - 5'-0"



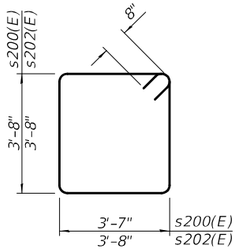
PLAN



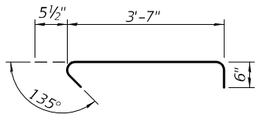
FIELD CUTTING DIAGRAM
Order h201(E), v203(E), and v205(E) full length.
Cut as shown and use remainder of bars in opposite face.



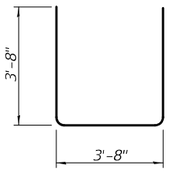
BAR v201(E)
(Headed 194-#8 Bar Terminators)



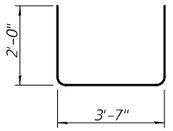
BAR s200(E) & s202(E)



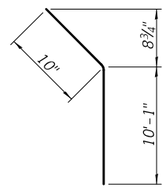
BAR s201(E)



BAR s203(E)



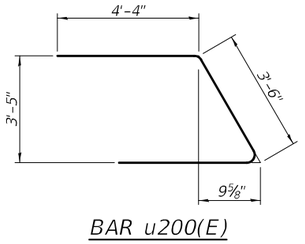
BAR u201(E)



BAR h202(E)

PILE DATA
Type: Metal Shell Piles, 16"x0.375" with Pile Shoes
Nominal Required Bearing: 580 kips
Factored Resistance Available: 319 kips
Est. Length: 80'
No. Production Piles: 9
No. Test Piles: 1

Pile driving for the North Abutment shall not commence until 95% of the anticipated settlement has occurred.



BAR u200(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h200(E)	52	#6	13'-7"	
h201(E)	8	#5	19'-10"	
h202(E)	4	#5	10'-11"	
h204(E)	24	#4	3'-8"	
h205(E)	2	#4	2'-3"	
h206(E)	4	#4	4'-1"	
h207(E)	2	#4	2'-6"	
n200(E)	6	#4	6'-7"	
n201(E)	6	#4	6'-9"	
p200(E)	20	#7	27'-1"	
p201(E)	4	#7	14'-0"	
s200(E)	38	#6	15'-10"	
s201(E)	20	#5	4'-7"	
s202(E)	2	#6	16'-0"	
s203(E)	4	#6	11'-0"	
u200(E)	8	#6	12'-2"	
u201(E)	14	#6	7'-7"	
v201(E)	97	#8	9'-3"	
v202(E)	4	#5	10'-9"	
v203(E)	9	#5	16'-9"	
v204(E)	4	#5	10'-6"	
v205(E)	9	#5	16'-4"	
v210(E)	6	#4	6'-1"	
v211(E)	6	#4	6'-3"	
z200(E)	10	#4	2'-1"	
z201(E)	10	#4	3'-11"	
Structure Excavation	Cu. Yd.		245.2	
Concrete Structures	Cu. Yd.		37.9	
Reinforcement Bars, Epoxy Coated	Pound		6930	
Furnishing Metal Shell Piles 16"x0.375"	Foot		720	
Driving Piles	Foot		720	
Test Pile Metal Shells	Each		1	
Bar Terminators	Each		194	
Pile Shoes	Each		10	

Notes:
Pour steps monolithically with cap.
See sheet 28 for wingwall extensions.
Bar terminators, paid for separately. See Total Bill of Material.
For details of piles see sheet 29 of 34.

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - KS	REVISED - __
	CHECKED - DJC	REVISED - __
PLOT SCALE = __	DRAWN - KS	REVISED - __
PLOT DATE = MARCH 19th, 2025	CHECKED - DJC	REVISED - __

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 26 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	90
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037049-68510-026 - EB N Abut Details.dgn
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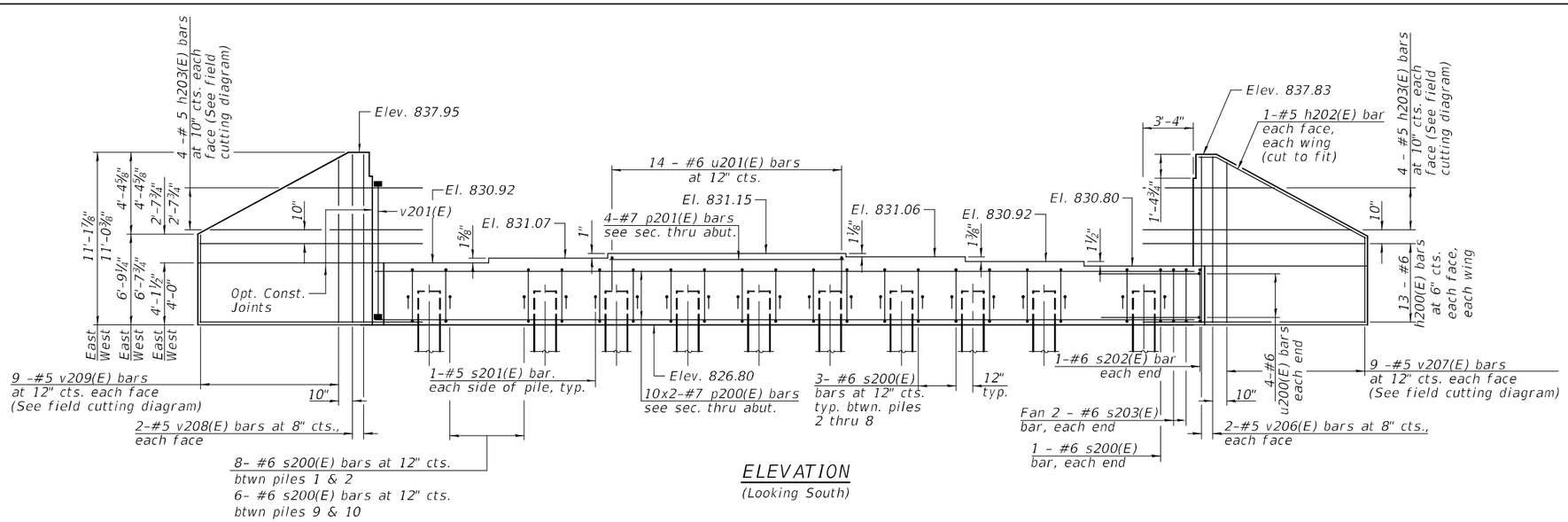
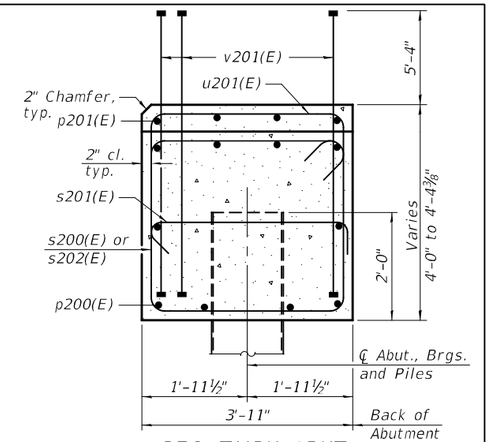


ELEVATION

(Looking South)

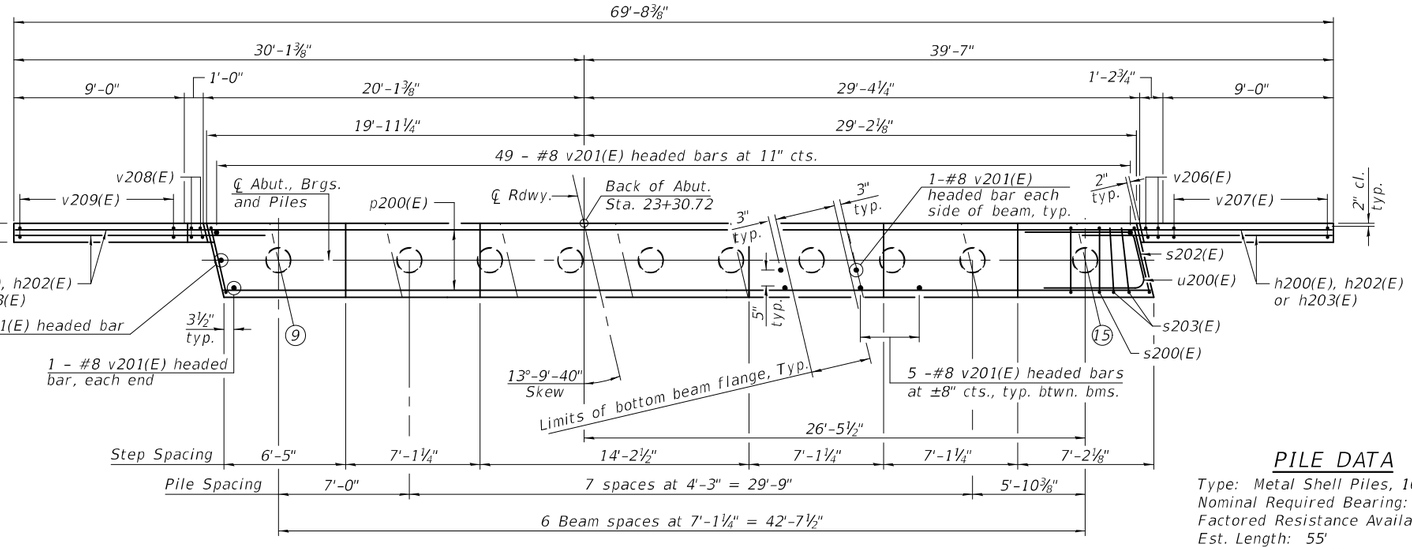


SEC. THRU ABUT.

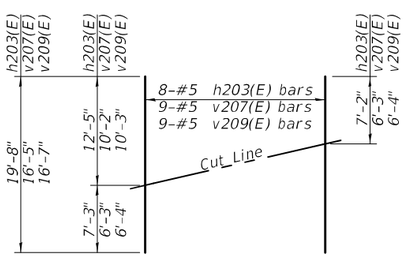
Dimensions at right angles to abutment.

MINIMUM LAP

#7 bar - 5'-0"

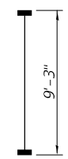


PLAN



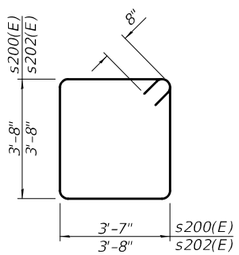
FIELD CUTTING DIAGRAM

Order h203(E), v207(E), and v209(E) full length.
Cut as shown and use remainder of bars in opposite face.

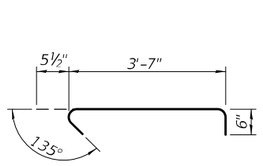


BAR v201(E)

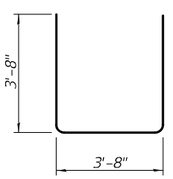
(Headed 194-#8 Bar Terminaors)



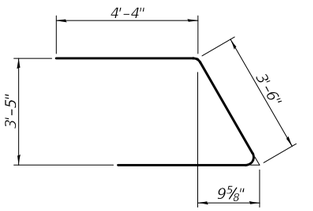
BAR s200(E) & s202(E)



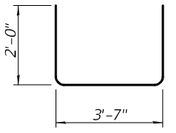
BAR s201(E)



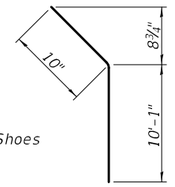
BAR s203(E)



BAR u200(E)



BAR u201(E)



BAR h202(E)

PILE DATA

Type: Metal Shell Piles, 16"x0.375" with Pile Shoes
Nominal Required Bearing: 602 kips
Factored Resistance Available: 331 kips
Est. Length: 55'
No. Production Piles: 9
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h200(E)	52	#6	13'-7"	
h202(E)	4	#5	10'-11"	
h203(E)	8	#5	19'-8"	
h204(E)	24	#4	3'-8"	
h205(E)	2	#4	2'-3"	
h206(E)	4	#4	4'-1"	
h207(E)	2	#4	2'-6"	
n200(E)	6	#4	6'-7"	
n201(E)	6	#4	6'-9"	
p200(E)	20	#7	27'-1"	
p201(E)	4	#7	14'-0"	
s200(E)	37	#6	15'-10"	
s201(E)	20	#5	4'-7"	
s202(E)	2	#6	16'-0"	
s203(E)	4	#6	11'-0"	
u200(E)	8	#6	12'-2"	
u201(E)	14	#6	7'-7"	
v201(E)	97	#8	9'-3"	
v206(E)	4	#5	10'-7"	
v207(E)	9	#5	16'-5"	
v208(E)	4	#5	10'-8"	
v209(E)	9	#5	16'-7"	
v210(E)	6	#4	6'-1"	
v211(E)	6	#4	6'-3"	
z200(E)	10	#4	2'-1"	
z201(E)	10	#4	3'-11"	
Structure Excavation	Cu. Yd.		245.2	
Concrete Structures	Cu. Yd.		37.3	
Reinforcement Bars, Epoxy Coated	Pound		6900	
Furnishing Metal Shell Piles 16"x0.375"	Foot		495	
Driving Piles	Foot		495	
Test Pile Metal Shells	Each		1	
Bar Terminators	Each		194	
Pile Shoes	Each		10	

Notes:
Pour steps monolithically with cap.
See sheet 28 for wingwall extensions.
Bar terminators, paid for separately. See Total Bill of Material
For details of piles see sheet 29 of 34.

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - DJC	REVISED - __	
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PLOT SCALE = __	DRAWN - DJC	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - MAH	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 27 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-I	HENRY	127	91
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037-0049-68510-027 - EB S Abut Details.dgn
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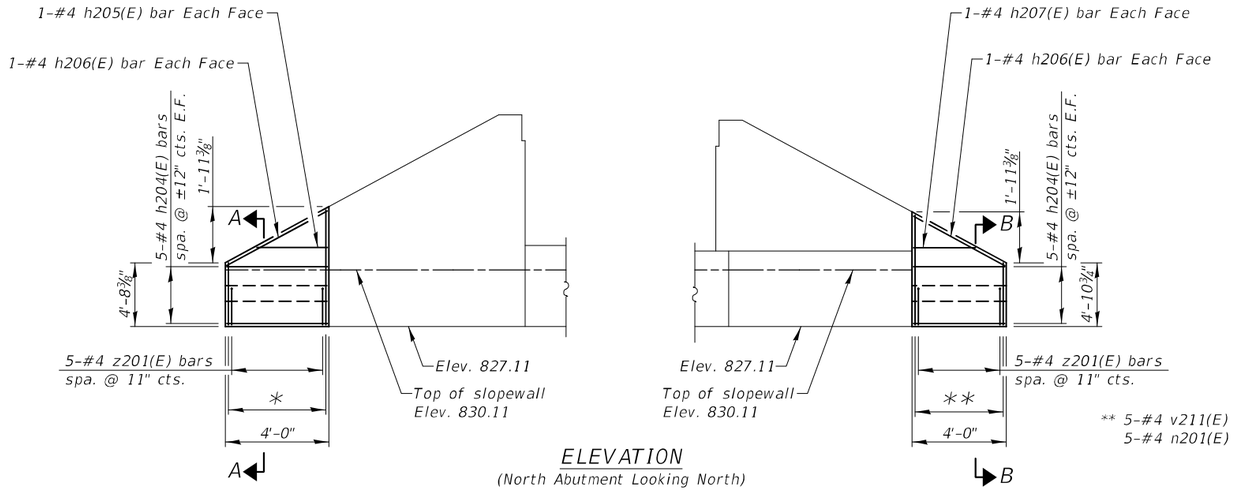
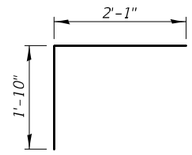


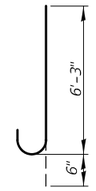
ELEVATION
(North Abutment Looking North)

* 5-#4 v210(E) bars spa. @ 11" cts. F.F., Cut to fit in Field
5-#4 n200(E) bars spa. @ 11" cts. B.F., Cut to fit in Field

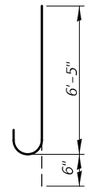
** 5-#4 v211(E) bars spa. @ 11" cts. F.F., Cut to fit in Field
5-#4 n201(E) bars spa. @ 11" cts. B.F., Cut to fit in Field



BAR z201(E)

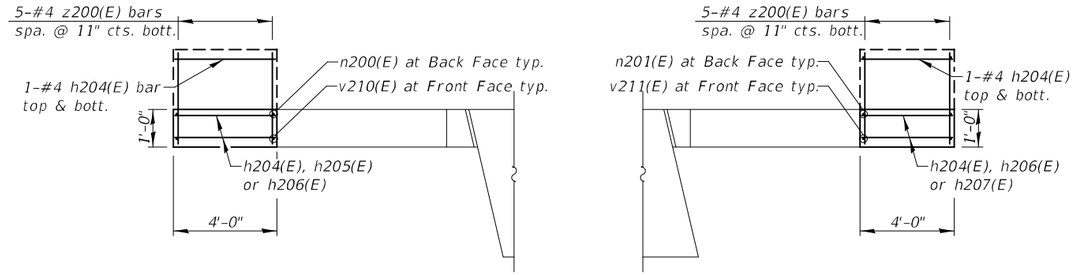


BAR n200(E)



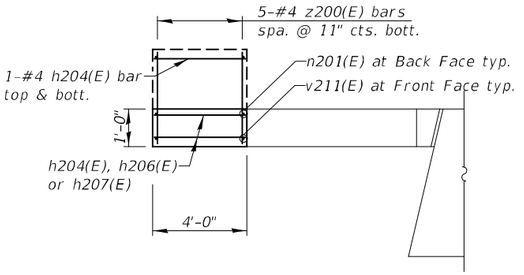
BAR n201(E)

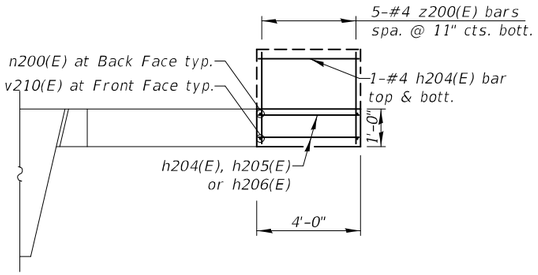
Note:
Cut n200(E) & n201(E) bars in field to fit



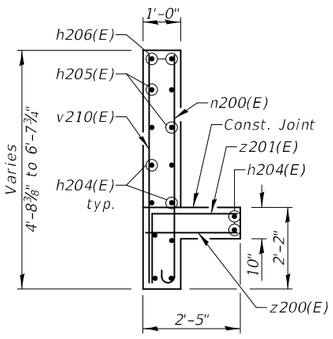
PLAN
North Abutment

ELEVATION
(South Abutment Looking South)

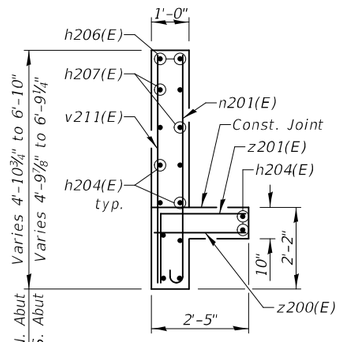




PLAN
South Abutment



SECTION A-A



SECTION B-B

Notes:
The joint between the dog ear wingwall and the wingwall extension shall be sealed with a fabric reinforced elastomeric mat.
Reinforcement schedule and quantity and concrete quantities are included in the Bills of Material on sheets 26 and 27.

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-028 - EB Wingwall Extensions.dgn
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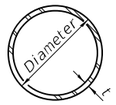
IL. Design Firm No. 184-001939

USER NAME = __	DESIGNED - DJC	REVISED - __	
	CHECKED - MAH	REVISED - __	
PLOT SCALE = __	DRAWN - DJC	REVISED - __	
PLOT DATE = MARCH 19th, 2025	CHECKED - MAH	REVISED - __	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

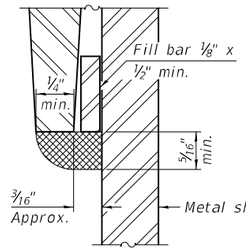
WINGWALL EXTENSIONS DETAILS
STRUCTURE NO. 037 - 0049 (E.B.)
SHEET 28 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	92
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

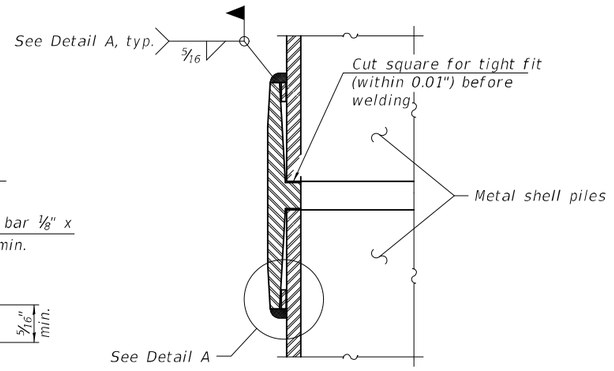


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

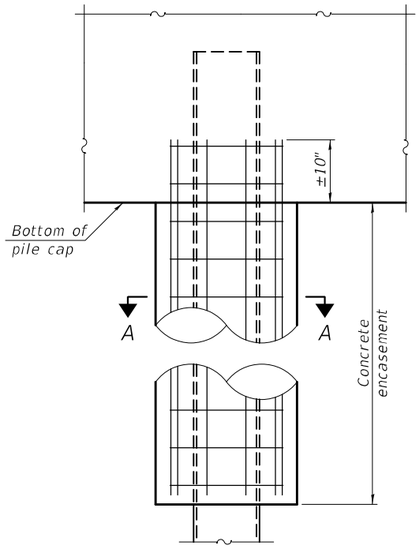


DETAIL A

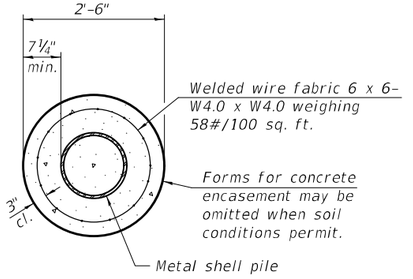


WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



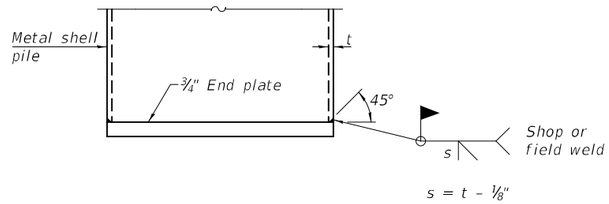
ELEVATION



SECTION A-A

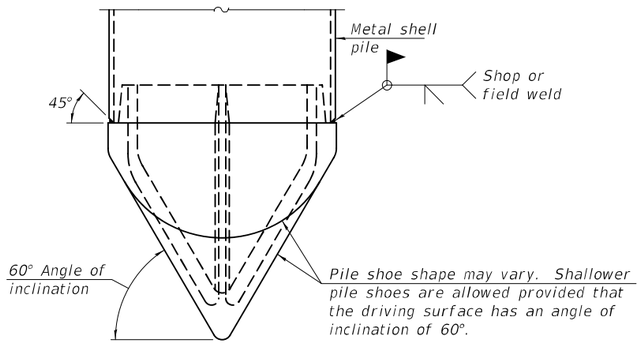
INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)



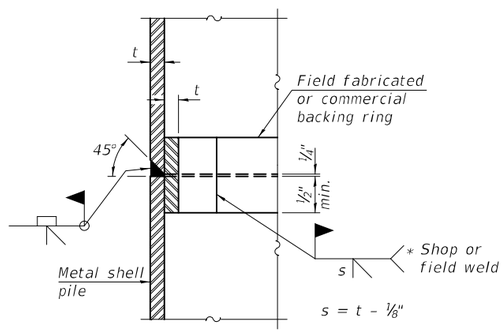
s = t - ⅛"

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

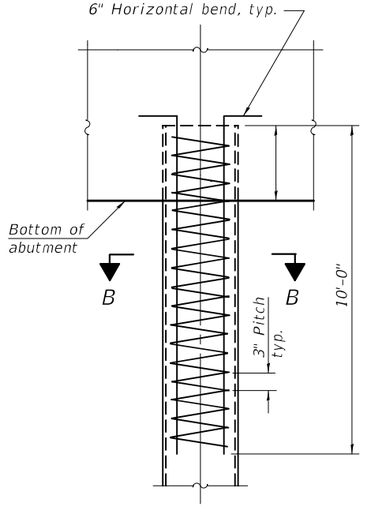
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



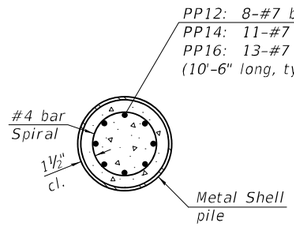
s = t - ⅛"

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 2-1-2023

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

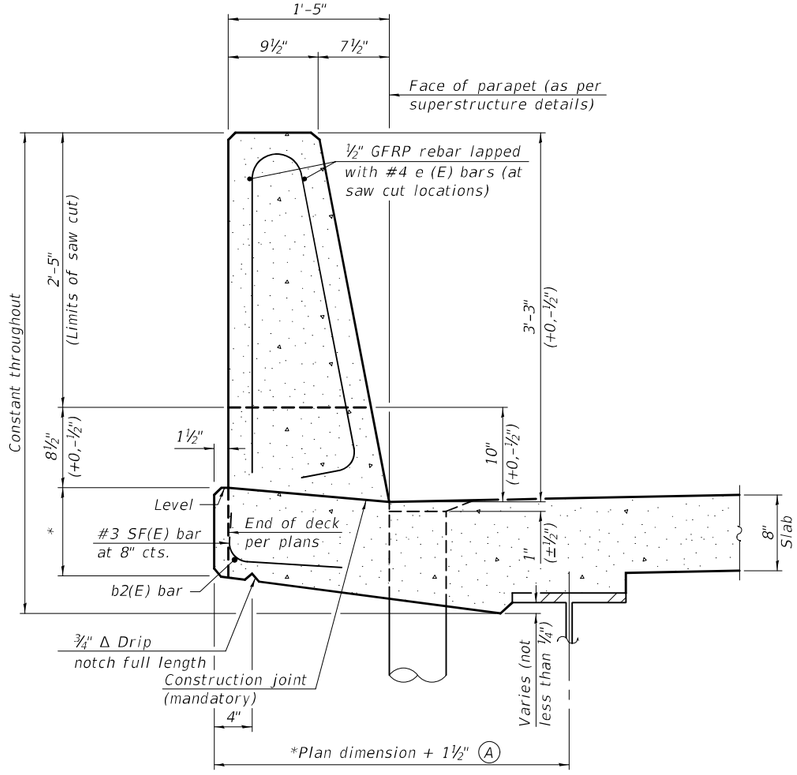
USER NAME = __	DESIGNED -	REVISED - __
	CHECKED -	REVISED - __
PLOT SCALE = __	DRAWN -	REVISED - __
PLOT DATE = MARCH 19th, 2025	CHECKED -	REVISED - __

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 037-0049 (E.B.) & 037-0053 (W.B.)
SHEET 29 OF 34 SHEETS

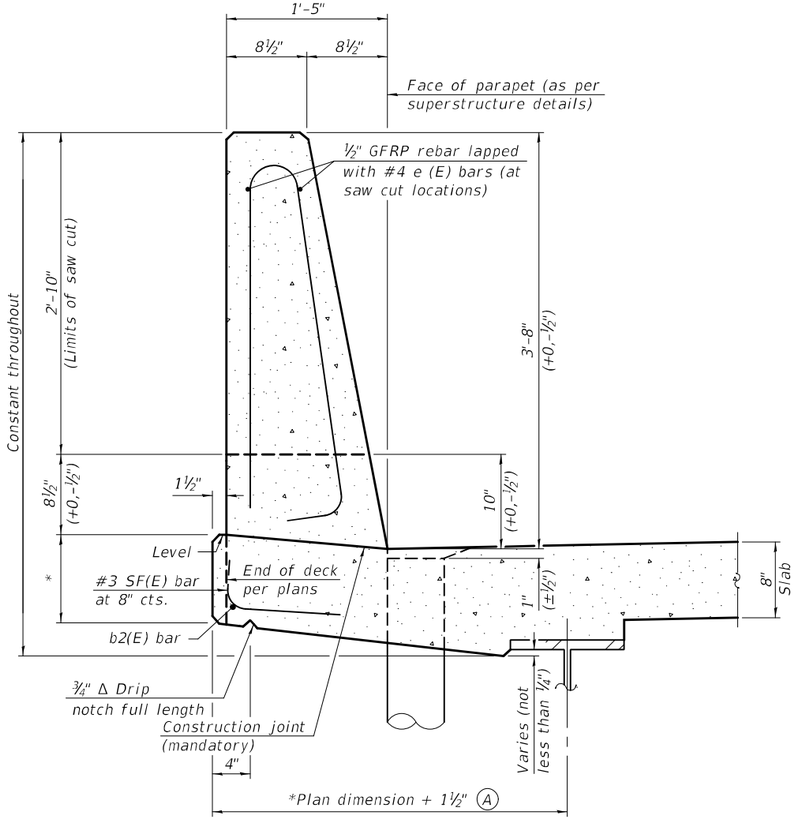
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	93
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-029 - Pile Details.dgn
3/19/2025 12:56:33 PM



39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)



44" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)

*See Superstructure Details.

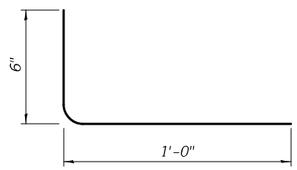
Notes:

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.

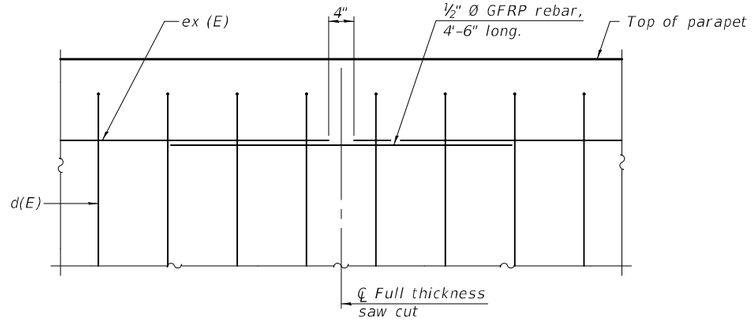
Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Steel superstructure shown. Other superstructure types similar.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 39-44 11-1-2022

VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = ___	DESIGNED -	REVISED - ___
		CHECKED -	REVISED - ___
	PLOT SCALE = ___	DRAWN -	REVISED - ___
	PLOT DATE = MARCH 19th, 2025	CHECKED -	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 037-0049 (E.B.) & 037-0053 (W.B.)

SHEET 30 OF 34 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	37-24HVB-1	HENRY	127	94
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\037004968510-030 - Slipforming.dgn

3/19/2025 12:56:33 PM

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 11/29/21

ROUTE FAI 74 DESCRIPTION WB I-74 Over IL 17 near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 25, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 1
Station 24+64
Offset 31.0 ft LT
Ground Surface Elev. 836.20 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion Dry ft
First Encounter ft
After 24 Hrs. 813.9 ft

DEPTH (ft)		BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
835.70	Asphalt			
835.20	Aggregate (CA-6)			
	SILTY CLAY, Dark Gray, Moist, Very Stiff, Trace of Sand and Gravel	2		
		2 5	2.2 B	14
		2		
		3 5	2.4 B	20
-5				
830.20				
	Stiff	1		
		3 5	1.9 B	19
827.70				
	Dark Gray and Light Gray, Very Stiff	3		
		7 8	3.8 B	18
-10				
825.20				
	Black and Gray	2		
		6 9	3.3 B	16
822.70				
	Light Gray and Orangish-Brown, Hard	5		
		6 9	4.5 P	18
-15				
820.20				
	Stiff	5		
		6 9	--	--
817.70				
	No Sand or Gravel	4		
		5 8	2.0 B	18
-20				
	No Sand or Gravel *(continued)*			
815.20				
	Black, Mottled, Hard	5		
		9 10	4.7 B	18
812.70				
	Light Gray and Black, Very Stiff	5		
		11 12	2.6 B	20
-25				
810.20				
	Black, Hard	6		
		9 11	4.4 B	29
807.70				
	CLAY, Light Gray, Orangish-Brown, Mottled, Moist, Very Stiff	3		
		4 5	2.1 B	30
-30				
802.70				
	SILTY LOAM, Light Gray, Orangish-Brown, Mottled, Moist, Very Stiff	3		
		4 6	2.4 B	22
-35				
797.70				
	SILT, Dark Brown, Moist, Very Stiff	4		
		9 11	2.5 P	37
-40				

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 11/29/21

ROUTE FAI 74 DESCRIPTION WB I-74 Over IL 17 near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 25, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 1
Station 24+64
Offset 31.0 ft LT
Ground Surface Elev. 836.20 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion Dry ft
First Encounter ft
After 24 Hrs. 813.9 ft

DEPTH (ft)		BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	SILT, Dark Brown, Moist, Very Stiff *(continued)*			
792.70				
792.20	MUCK, Dark Brown, Moist, Stiff	4	2.0 P	57
	SILTY CLAY LOAM, Light Gray, Moist, Stiff	5	1.8	32
-45		5	P	
787.70				
	SILTY CLAY TILL, Light Gray, Moist, Stiff, Trace of Sand and Gravel	5		
		6 6	1.0 B	17
-50				
782.70				
	Very Stiff	6		
		7 9	2.0 B	16
-55				
		10		
		12 16	2.6 B	15
-60				
	Very Stiff *(continued)*			
772.70				
	Dark Gray, Dry to Moist, Hard	10		
		23 27	4.7 B	15
-65				
767.70				
	Dark Brown	17		
		47 36	4.9 B	18
766.20				
-70				
	End of Boring			
-75				
-80				

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)

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-031 - Boring Logs 1.dgn
3/19/2025 12:56:34 PM

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 12/1/21

ROUTE FAI 74 DESCRIPTION WB I-74 Over IL 17 near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 24, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 2
Station 22+57
Offset 30.0 ft RT
Ground Surface Elev. 809.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion 804.4 ft ▼
First Encounter ft
After 24 Hrs. 805.1 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY, Dark Gray, Moist, Very Stiff	2		
	4 5	2.8 P	34
805.90			
SILTY CLAY LOAM, Light Gray, Orangish-Brown, Mottled, Medium Stiff ▽ -5	1		
	2 2	0.5 B	27
Shelby Tube Pushed from 5'-7' Recovery: 24" 803.40			
Soft	1		
	1 2	0.4 B	34
800.90			
SILTY LOAM, Light Gray, Orangish-Brown, Mottled, Moist, Medium Stiff -10	1		
	2 3	1.0 B	25
	2		
	1 2		33
795.90			
Gray 795.40	1	1.3 P	37
SILT, Dark Brown, Moist, Stiff -15	2 6	1.6 B	38
793.40			
MUCK, Dark Brown, Moist, Very Stiff	3		
	4 8	2.5 P	119
791.40			
Shelby Tube Pushed from 18'-20' Recovery: 24" 790.90	2		
Dry to Moist	2	2.3	176
-20	2	P	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dry to Moist *(continued)* 788.40	2		
CLAY, Gray, Moist, Medium Stiff, Trace of Sand	2	0.9	30
	2	B	
785.90			
Stiff, No Sand	2		
-25	3 4	1.1 B	24
783.40			
SILTY CLAY TILL, Gray, Moist, Medium Stiff, Trace of Sand and Gravel	2		
	4 2	0.9 B	18
780.90			
Dry to Moist, Stiff	4		
-30	6 7	1.7 B	16
	4		
	5 6	2.0 B	15
-35			
770.90			
Very Stiff	7		
-40	10 13	3.4 B	14

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)

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 12/1/21

ROUTE FAI 74 DESCRIPTION WB I-74 Over IL 17 near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 24, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 2
Station 22+57
Offset 30.0 ft RT
Ground Surface Elev. 809.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion 804.4 ft ▼
First Encounter ft
After 24 Hrs. 805.1 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff *(continued)*			
765.90			
Dry to Moist	7		
	10 13	3.8 B	13
-45			
760.90			
Hard	15		
	22 30	>4.85 B	12
-50			
	12		
	17 21	4.7 B	13
-55			
	12		
	15 17	4.4 B	15
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard *(continued)*			
745.90			
Very Stiff	9		
	15 19	3.2 B	18
744.40 -65			
End of Boring			
-70			
-75			
-80			

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)

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 11/30/21

ROUTE FAI 74 DESCRIPTION EB I-74 over IL 17 Near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 25, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 3
Station 23+84
Offset 27.0 ft LT
Ground Surface Elev. 837.20 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion 813.0 ft ▼
First Encounter ft
After 24 Hrs. 814.3 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material Description
	2			SILTY CLAY, Brown, Moist, Stiff, Trace of Sand and Gravel
	5	1.7	19	
	8	B		
833.70				
	2			Gray, Orange, Mottled, No Sand or Gravel
	4	1.9	23	
-5	6	B		
831.20				
	2			Very Stiff
	3	2.4	23	
	4	B		
	2			
	4	2.2	20	
-10	4	B		
826.20				
	3			SILTY LOAM, Gray, Orangish-Brown, Mottled, Moist, Stiff
	4	1.0	21	
	5	B		
	3			
	4	2.1	22	
-15	6	B		
821.20				
	4			Very Stiff
	6	2.2	19	
	6	S		
818.70				
	4			SILTY CLAY, Gray, Orangish-Brown, Mottled, Moist, Very Stiff
	5	2.5	20	
-20	7	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material Description
	5			SILTY CLAY, Gray, Orangish-Brown, Mottled, Moist, Very Stiff *(continued)*
	8	2.8	22	
	11	B		
813.70				
	4			Gray, Orange and Black
	6	3.0	28	
-25	10	B		
811.20				
810.70	4	2.8	24	Gray, Orange, Mottled
		P		Black, Dry to Moist, Hard
	6	>4.5	28	
	10	P		
808.70				
	2			Light Gray, Orangish-Brown, Mottled, Moist, Medium Stiff
	3	1.0	28	
-30	3	B		
803.70				
	3			SILTY LOAM, Light Gray, Orangish-Brown, Moist, Stiff
	4	1.6	25	
-35	4	B		
798.70				
	2			Light Gray, Moist to Wet, Medium Stiff
	3	0.8	29	
-40	3	B		

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)

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 11/30/21

ROUTE FAI 74 DESCRIPTION EB I-74 over IL 17 Near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 25, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 3
Station 23+84
Offset 27.0 ft LT
Ground Surface Elev. 837.20 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion 813.0 ft ▼
First Encounter ft
After 24 Hrs. 814.3 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material Description
				Light Gray, Moist to Wet, Medium Stiff *(continued)*
793.70				
793.20	2	1.3	38	Stiff
		P		SILTY CLAY, Dark Gray, Moist, Stiff
-45	4	1.4	23	
	4	B		
788.70				
	3			SILTY CLAY TILL, Gray, Moist, Stiff, Trace of Sand and Gravel
	4	1.5	20	
-50	5	B		
	4			
	6	1.8	15	
-55	8	B		
778.70				
	12			Dry to Moist, Very Stiff
	14	3.4	15	
-60	14	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material Description
				Dry to Moist, Very Stiff *(continued)*
773.70				
	7			Dark Gray, Hard
	15	4.7	12	
-65	17	B		
	19			
	27	4.9	16	
-70	34	B		
	13			
	16	4.7	17	
762.20 -75	33	B		
				End of Boring
-80				

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)

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-033 - Boring Logs 3.dgn
3/19/2025 12:56:46 PM

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 12/3/21

ROUTE FAI 74 DESCRIPTION EB I-74 over IL 17 Near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 24, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 4
Station 22+36
Offset 35.0 ft RT
Ground Surface Elev. 809.70 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion -- ft
First Encounter ft
After 16 Hrs. 804.0 ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY, Black, Dry, Very Stiff		2		
		6	3.5	26
		4	P	
	806.20			
Light Gray, Orangish-Brown, Mottled, Moist, Stiff		3		
		4	1.7	30
	804.70 -5	4	B	
Shelby Tube Pushed from 5'-7' Recovery: 22"	803.70			
SILTY CLAY LOAM, Gray, Orangish-Brown, Mottled, Moist to Wet, Soft		1		
		1	0.4	28
		1	B	
	800.70			
Shelby Tube Pushed from 9'-11' Recovery: 23"		1		
		1	0.5	26
	-10	2	B	
	798.70			
SILTY LOAM, Gray, Orangish-Brown, Mottled, Moist, Medium Stiff		1		
		1	0.9	31
		2	B	
	796.70			
Shelby Tube Pushed from 13'-15' Recovery: 24"	796.20	2		
MUCK, Dark Brown, Moist, Medium Stiff		4	1.0	66
	-15	4	S	
		3		
		4	0.7	135
		8	S	
	791.20			
SILTY CLAY, Light Gray, Moist, Soft	790.70	1	0.5	59
			P	
	-20	2	1.0	32

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL, Gray, Moist, Medium Stiff, Trace of Sand *(continued)*	788.70	2	B	
		1		
SILTY CLAY TILL, Gray, Moist, Stiff, Trace of Sand		3	1.1	24
		4	B	
	786.20			
Trace of Gravel		3		
		4	1.7	21
	-25	6	B	
		2		
		3	1.1	18
		5	B	
		2		
		5	1.2	17
	-30	6	B	
	776.20			
Dry to Moist, Very Stiff		11		
		9	2.6	15
	-35	12	B	
	771.20			
Hard		9		
		14	4.7	12
	769.70 -40	18	B	

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)

Illinois Department of Transportation
Division of Highways
Hurst-Rosche

SOIL BORING LOG

Date 12/3/21

ROUTE FAI 74 DESCRIPTION EB I-74 over IL 17 Near Woodhull, IL LOGGED BY EJA

SECTION (37-24HVB)BR LOCATION , SEC. 24, TWP. 14N, RNG. 1E, 4th PM,
Latitude , Longitude

COUNTY Henry DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 037-0053 (Proposed)
Station

BORING NO. 4
Station 22+36
Offset 35.0 ft RT
Ground Surface Elev. 809.70 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
Upon Completion -- ft
First Encounter ft
After 16 Hrs. 804.0 ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY TILL, Gray, Dry to Moist, Hard, Trace of Sand and Gravel		9		
		15	>4.85	14
	-45	20	B	
		15		
		22	>4.85	13
	-50	27	B	
	756.20			
Very Stiff		9		
		12	3.4	15
	-55	17	S	
	751.20			
Hard		4		
		10	4.9	15
	-60	12	B	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard *(continued)*		14		
		17	4.0	17
	-65	20	B	
	741.20			
Trace of Wood		10		
		14	4.0	16
	-70	24	B	
	736.20			
Moist		8		
		10	4.3	17
	734.70 -75	11	B	
End of Boring				

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)

MODEL: Default
FILE NAME: Z:\0 V and K Jobs\523 - Illinois Department of Transportation - District 4\5238-001 PTB 205-027 WO-1 I-74 over IL 17 and BNSF EXEMPT\CADD\0370049-68510-034 - Boring Logs 4.dgn
3/19/2025 12:56:52 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 74	*	KNOX & HENRY	73	37
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1
26 SHEETS

(37-24, 48-24, 48-25)HVB-1,
(48-26-1)25

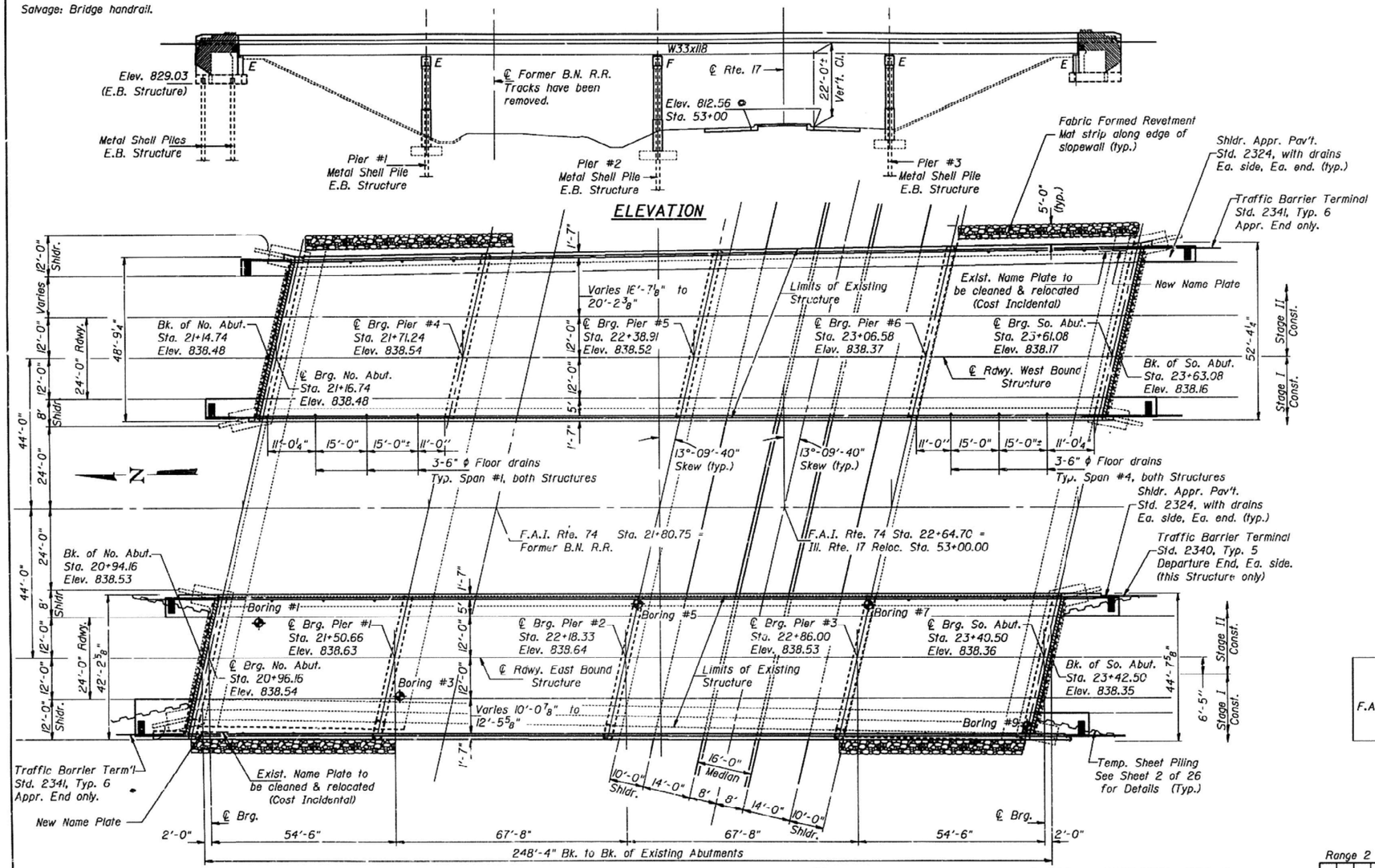
Benchmark: B.M. Chiseled "a" on top of Conc. Box Culvert 128' Rt. Sta. 22+94.00 North side of Hwy. 17 - Elev. 809.852

Existing Structure: #037-0019 (E.B.) is 248'-4" long and the width varies from 36'-0¾" (min.) to 42'-5½" (max.) and #037-0020 (W.B.) is 248'-4" long and the width varies from 47'-7¼" (min.) to 51'-2½" (max.) Structures were built as FAI Rte. 74 Section 37-24 HVB at Sta. 22+64.70 in 1967.

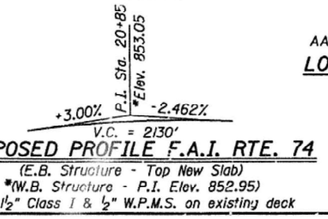
Traffic shall be maintained during the rehabilitation of the existing structures.

Salvage: Bridge handrail.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



PROPOSED PROFILE F.A.I. RTE. 74

(E.B. Structure - Top New Slab)
*(W.B. Structure - P.I. Elev. 852.95)
Top 1½" Class I & ½" W.P.M.S. on existing deck

DESIGN SPECIFICATIONS

AASHTO (1983) and applicable Interims (1984 thru 1986)
LOADING HS20-44 & ALTERNATE LDG.

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (Reinf.)
f_y = 36,000 psi (Exist. Struct. St.)(A1183 Next)
f_y = 50,000 psi (New Struct. St.)(AASHTO M223)

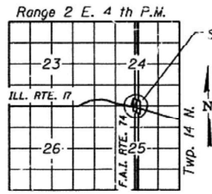
DESIGNED	VICTOR VELIZ / Eric Gewdy
CHECKED	Victor Veliz
DRAWN	Paul W. Sweet / DH
CHECKED	V.V. E.E.G.

Dec. 22 1987
EXAMINED Iraj I. Kaspar, ENGINEER OF BRIDGE DESIGN
PASSED James T. Rayburn, ENGINEER OF BRIDGE AND STRUCTURES
APPROVED DIRECTOR OF HIGHWAYS

STATION 22+64.70
BUILT IN BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. 37-24HVB-1
F.A. PROJ.
** STR. NO.

NAME PLATE

See Std. 2113
** E.B. 037-0019
W.B. 037-0020



LOCATION SKETCH

GENERAL PLAN
F.A.I. ROUTE 74 OVER ILL. ROUTE 17
SECTION 37-24HVB-1
HENRY COUNTY
STATION 22+64.70
STRUCTURE NUMBER 037-0019 (EB)
STRUCTURE NUMBER 037-0020 (WB)

MODEL: Default
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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 1 OF 10 SHEETS | STA. | TO STA.

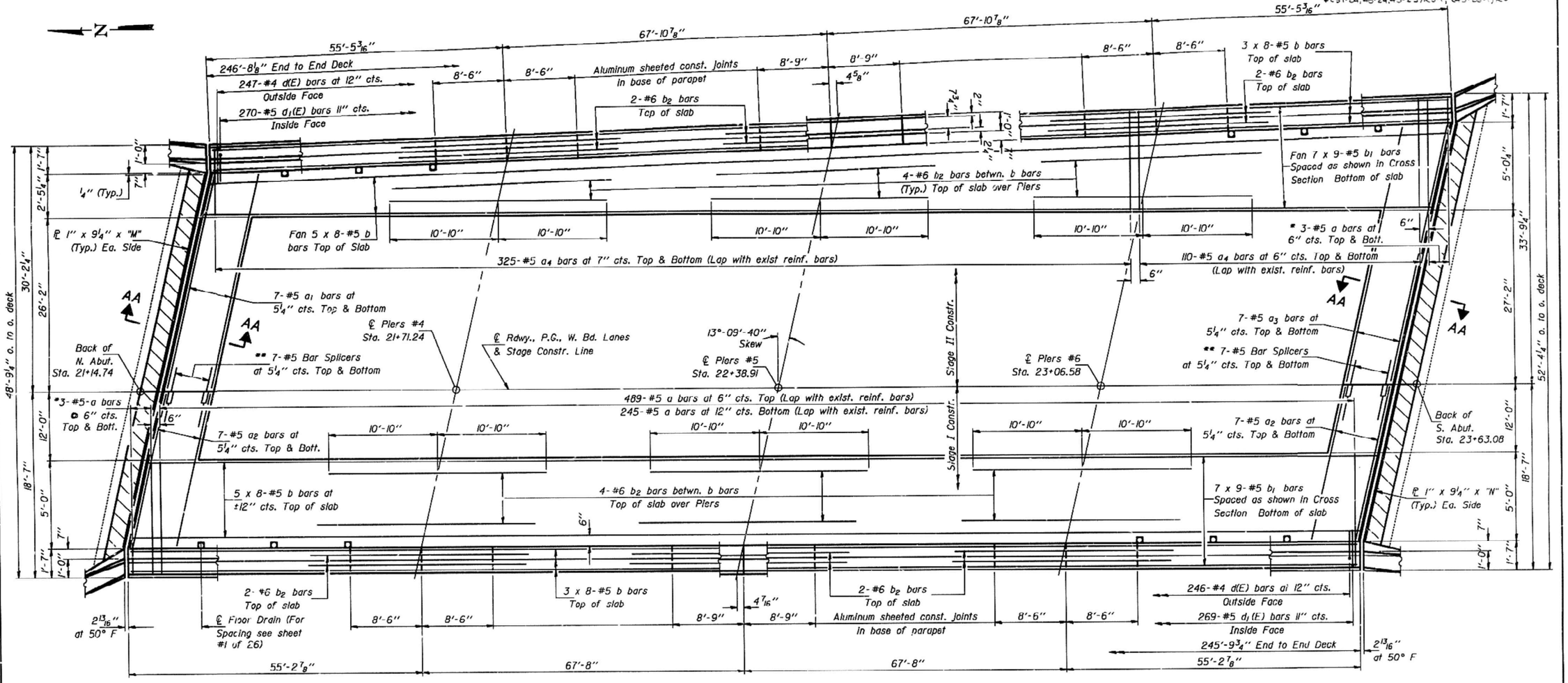
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	99
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 74	-X-	KNOX & HENRY	73	43
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
26 SHEETS

(37-24,48-24,49-25)R5-1, (49-26-1)R5



* Order a bars full length. Cut to fit the skew.
** Bar Splicers lapped with the a_1, a_2 and a_3 bars shall be tied with double the number of ties normally used.

PLAN

MIN. BAR LAP
#5 bars = 2'-2"

DIMENSIONS "M" & "N"

Loc. \ Dim.	M	N
Stage I	17'-5 1/4"	17'-5 1/4"
Stage II	29'-4 1/4"	33'-0 7/8"

Notes: See sheet #9, #10 & #12 of 26 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Hatched area to be poured after superstructure forms have been removed. Quantity of "Class X Concrete Superstructure" billed with superstructure see sheet #10 of 26.
See sheet #13 of 26 for bar splicer details.
For Deck Slab Repairs see Roadway Plans.

SUPERSTRUCTURE - (W. BD. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-I
HENRY COUNTY
STA. 22+64.70

DESIGNED	VICTOR VELEZ / Eric Gowdy
CHECKED	VICTOR VELEZ
DRAWN	John F. Schneller Jr.
CHECKED	V.V. E.E.G.

Dec. 22 1987
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures
APPROVED Director of Highways

S-1-L(<15°) 12-1-83

MODEL: Default
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VEENSTRA & KIMM INC.

DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 2 OF 10 SHEETS | STA. | TO STA.

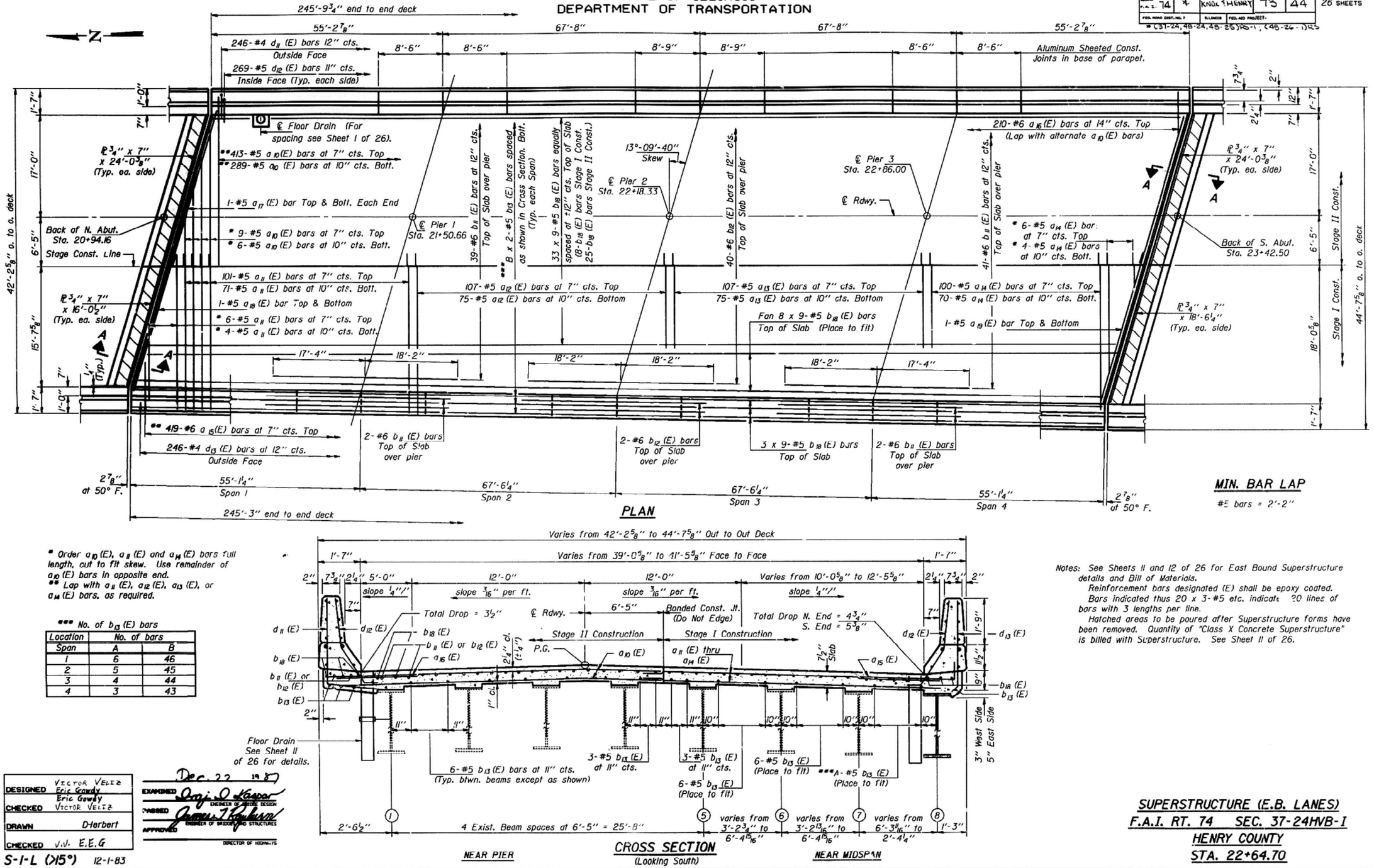
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	100
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	*	KNOX & HENRY	73	44
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 8
26 SHEETS

*(37-24,48-24,48-25)RS-1, (48-26-1)RS



PLAN

MIN. BAR LAP

#E bars = 2'-2"

* Order a10 (E), a11 (E) and a14 (E) bars full length, cut to fit skew. Use remainder of a10 (E) bars in opposite end.
** Lap with a11 (E), a12 (E), a13 (E), or a14 (E) bars, as required.

*** No. of b13 (E) bars

Location	No. of bars	
Span	A	B
1	6	46
2	5	45
3	4	44
4	3	43

NEAR PIER — CROSS SECTION (Looking South) — NEAR MIDSPAN

Notes: See Sheets 11 and 12 of 26 for East Bound Superstructure details and Bill of Materials.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicate 20 lines of bars with 3 lengths per line.
Hatched areas to be poured after Superstructure forms have been removed. Quantity of "Class X Concrete Superstructure" is billed with Superstructure. See Sheet 11 of 26.

DESIGNED	Victor Velez	
CHECKED	Eric Gowdy	
DRAWN	Victor Velez	
CHECKED	D.Herbert	
	V.V. E.E.G	

S-1-L (>15°) 12-1-83

EXAMINED Dec. 22 1987
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE (E.B. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-I
HENRY COUNTY
STA. 22+64.70

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VEENSTRA & KIMM INC.

DESIGNED	-	PMO	REVISED -
DRAWN	-	PMO	REVISED -
CHECKED	-	DMS	REVISED -
DATE	-	04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 3 OF 10 SHEETS | STA. | TO STA.

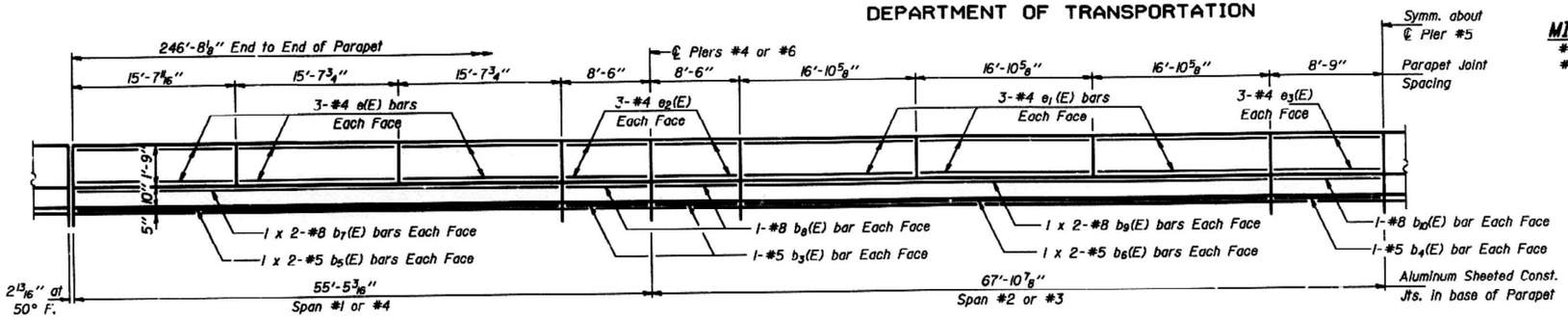
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	101
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	-1-	KNOX & HENRY	73	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

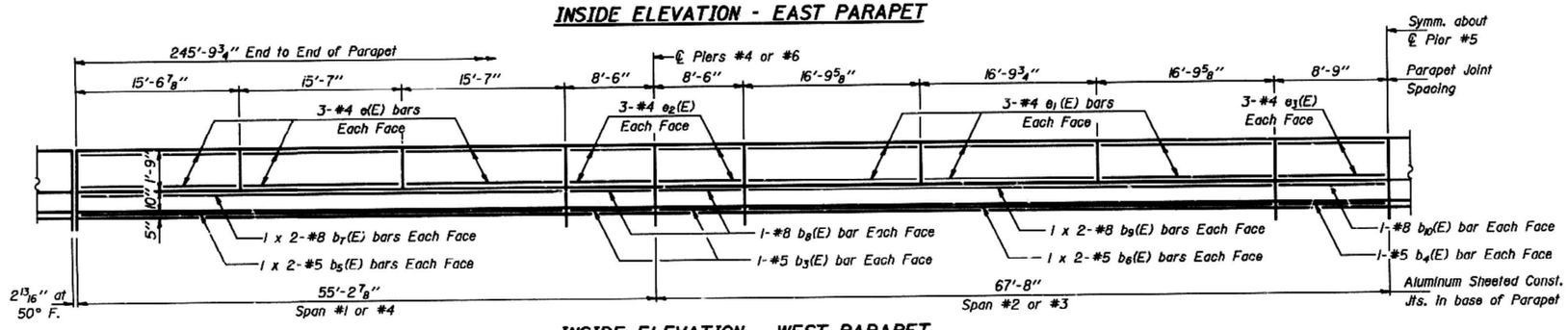
SHEET NO. 9
26 SHEETS

*(37-24, 48-24, 48-25) RS-1; (48-26-1) RS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



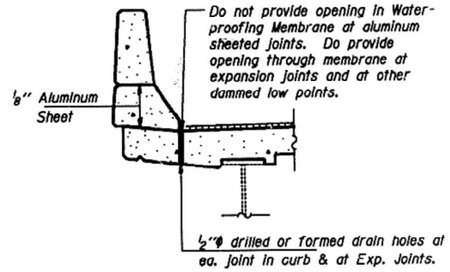
INSIDE ELEVATION - EAST PARAPET



INSIDE ELEVATION - WEST PARAPET

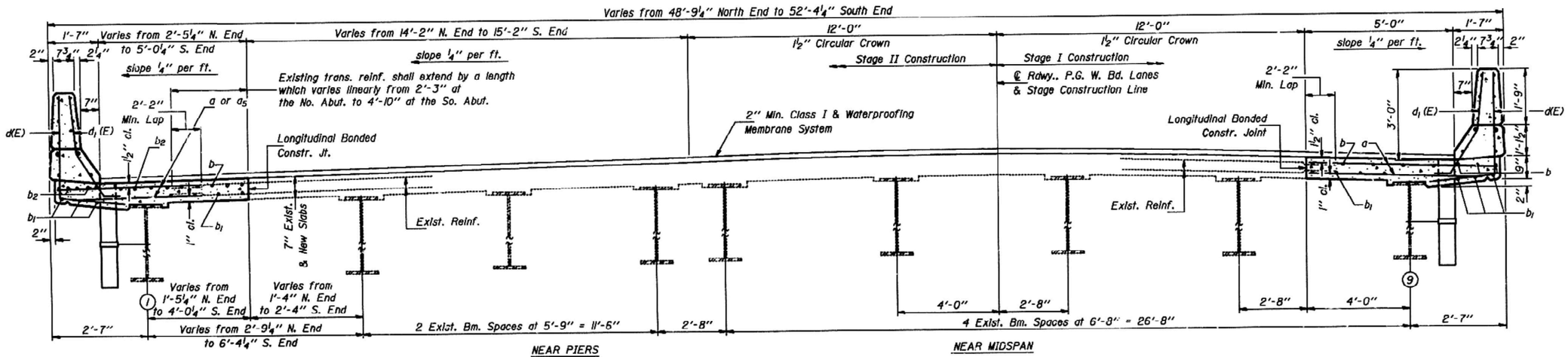
MIN. BAR LAP

#5 bars = 2'-2"
#8 bars = 4'-6"



DRAIN HOLES

Notes: See sheet #7, #10 & #12 of 26 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into new construction.



CROSS SECTION
(Looking South)

DESIGNED	VECTOR VELIZ Eric Gowdy
CHECKED	VECTOR VELIZ
DRAWN	John F. Schneller Jr.
CHECKED	V.V. E.E.G.

EXAMINED Dec. 22 1987
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE DETAILS (W.B. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-I
HENRY COUNTY
STA. 22+64.70

MODEL: Default
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VEENSTRA & KIMM INC.

DESIGNED -	PMO	REVISED -
DRAWN -	PMO	REVISED -
CHECKED -	DMS	REVISED -
DATE -	04-03-2025	REVISED -

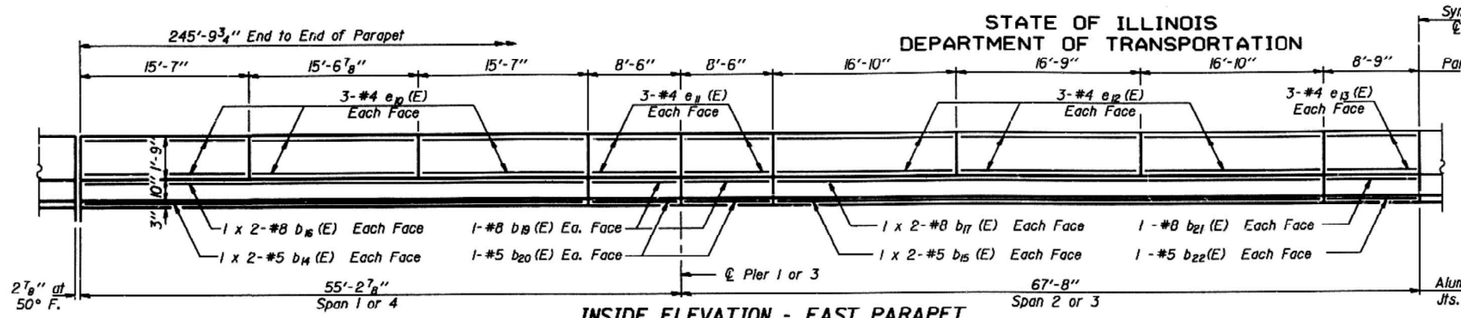
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

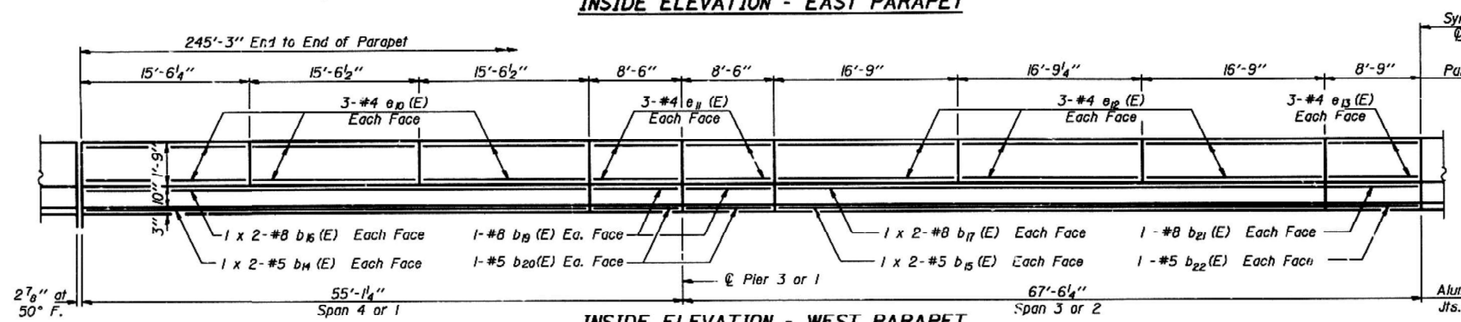
SCALE: | SHEET 4 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	102
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

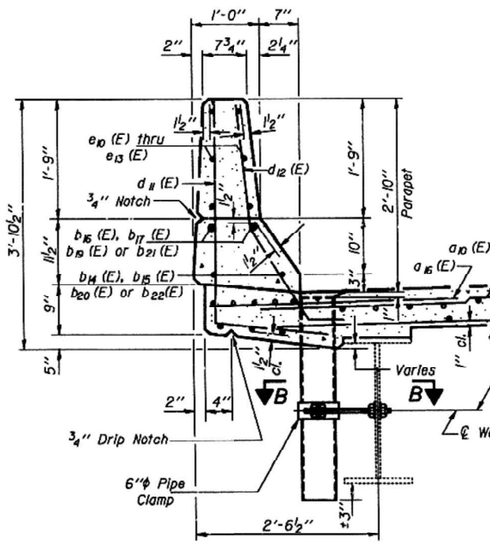
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



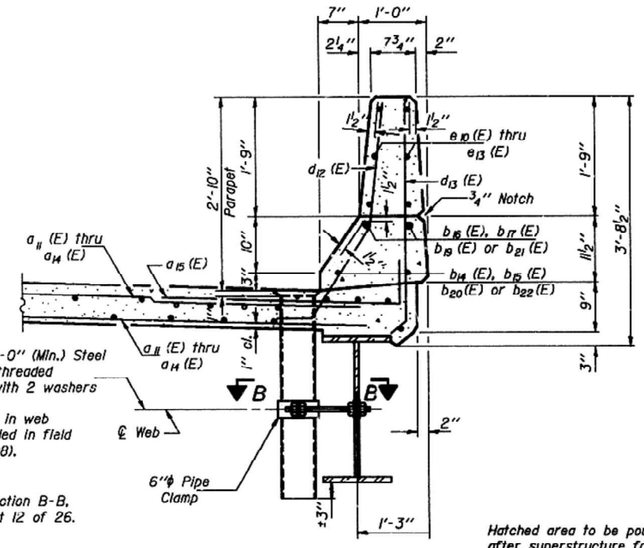
INSIDE ELEVATION - EAST PARAPET



INSIDE ELEVATION - WEST PARAPET



EAST PARAPET



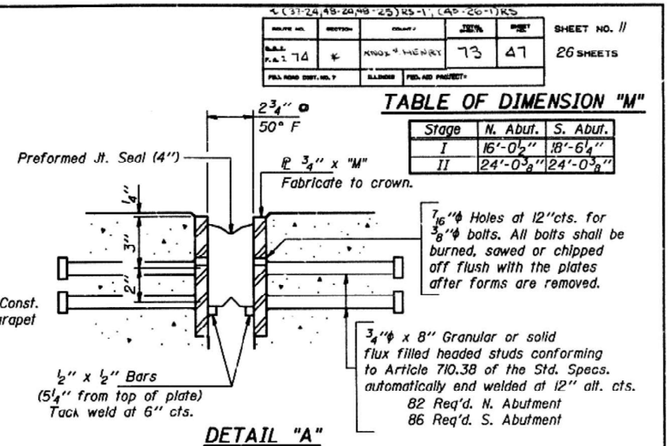
WEST PARAPET

Note: For Section B-B, see Sheet 12 of 26.

SECTION THRU PARAPETS

DESIGNED	Victor Velez / Eric Gawdy
CHECKED	Eric Gawdy / Victor Velez
DRAWN	D.Herbert
CHECKED	V.V. E.E.G.

Dec. 22 1987
EXAMINED Engineer of Bridge Design
PASSED James T. Hyburn Engineer of Bridge and Structures
APPROVED Director of Highways



DETAIL "A"

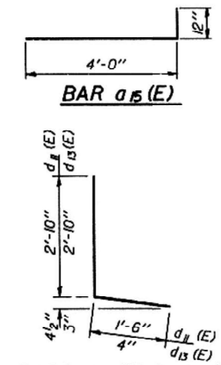
TABLE OF DIMENSION "M"

Stage	N. Abut.	S. Abut.
I	16'-0 1/2"	18'-6 1/4"
II	24'-0 3/8"	24'-0 3/8"

SUPERSTRUCTURE
BILL OF MATERIAL

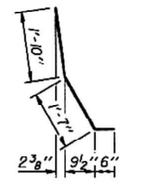
Bar	No.	Size	Length	Shape
a10 (E)	717	#5	24'-5"	
a11 (E)	182	#5	18'-10"	
a12 (E)	182	#5	19'-4"	
a13 (E)	182	#5	20'-0"	
a14 (E)	180	#5	20'-8"	
a15 (E)	419	#6	5'-0"	
a15 (E)	210	#6	4'-0"	
a17 (E)	4	#5	24'-6"	
a18 (E)	2	#5	18'-6"	
a19 (E)	2	#5	21'-0"	
b11 (E)	88	#6	35'-6"	
b12 (E)	44	#6	36'-4"	
b13 (E)	356	#5	32'-7"	
b14 (E)	16	#5	24'-5"	
b15 (E)	16	#5	26'-3"	
b16 (E)	16	#8	25'-9"	
b17 (E)	16	#8	27'-7"	
b18 (E)	423	#5	29'-2"	
b19 (E)	16	#8	8'-3"	
b20 (E)	16	#5	8'-3"	
b21 (E)	8	#8	8'-6"	
b22 (E)	8	#5	8'-6"	
d11	246	#4	4'-4"	L
d12 (E)	538	#5	3'-11"	⌐
d13 (E)	246	#4	3'-2"	L
e10 (E)	72	#4	15'-3"	
e11 (E)	48	#4	8'-3"	
e12 (E)	72	#4	16'-6"	
e13 (E)	24	#4	8'-6"	
Reinforcement Bars (Epoxy Coated)		Lbs.	79,060	
Class X Concrete Superstructure		Cu. Yds.	323.1	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

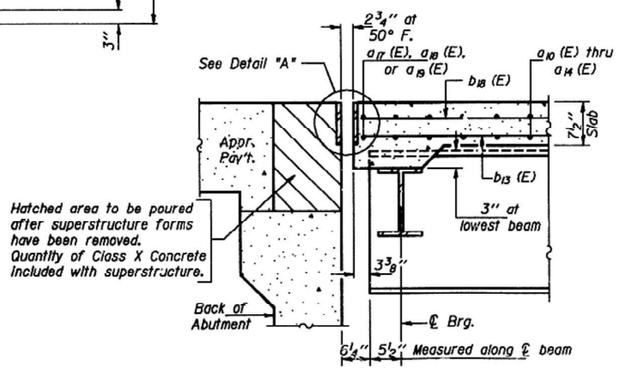


BAR a15 (E)

BARS d11 (E) & d13 (E)



BAR d12 (E)



Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete included with superstructure.

SECTION A-A

SUPERSTRUCTURE DETAILS (E.B. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-1
HENRY COUNTY
STA. 22+64.70

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 74	(37-24,48-20,48-25)RS-1; (49-26-1)RS	HENRY'S & MERCER	73	47
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 11
26 SHEETS

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

VEENSTRA & KIMM INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 5 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	103
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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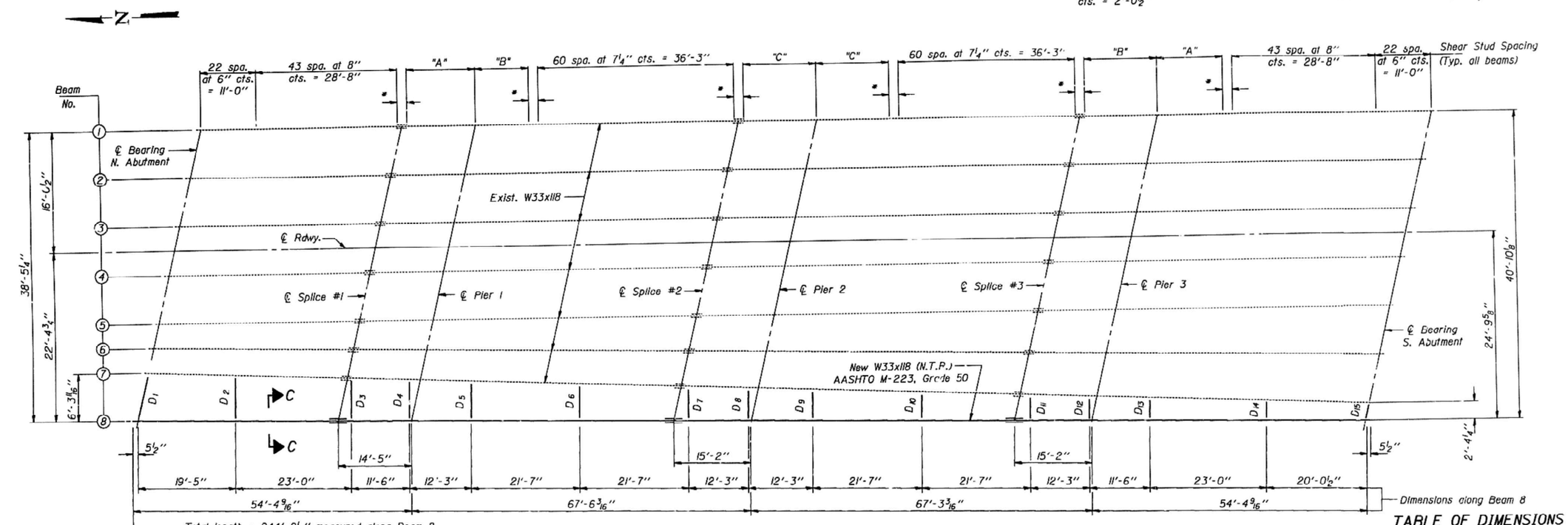
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

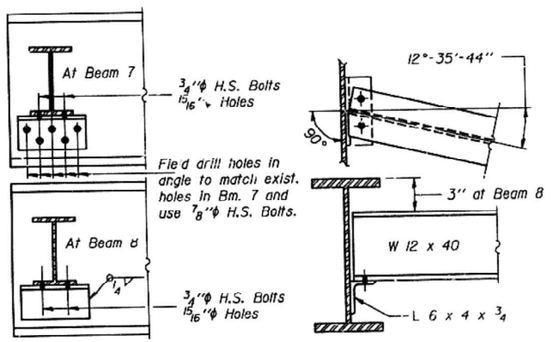
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI RTE 74	4	KNOX & HENRY	73	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
26 SHEETS

* (37-24, 40, 29, 43-23) RS-1, (49) 26-(1) KS

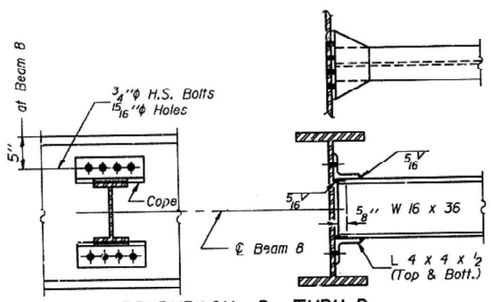


FRAMING PLAN



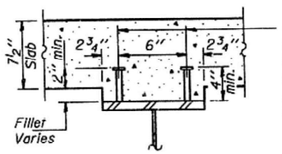
DIAPHRAGM D1 & D15

(2 Required)



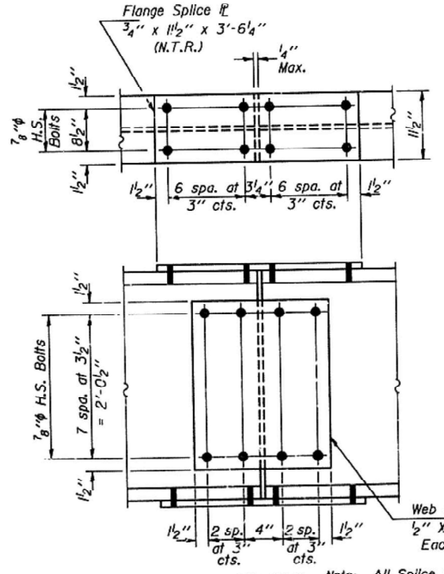
DIAPHRAGM D2 THRU D14

(13 Required)



3/4"ϕ Granular or solid flux filled headed studs, conforming to the requirements of Art. 710.38 of the Std. Specs. Automatically end welded to flange. (4736 Req'd.)

SECTION C-C



SPLICE

Note: All Splice Plate material shall be AASHTO M-223, Grade 50.

DIAPHRAGM LENGTHS

(c. to c. Beam Web)

Diaphragm	Length
D_1	6'-5 3/4"
D_2	5'-11 13/16"
D_3	5'-7 5/16"
D_4	5'-5 1/16"
D_5	5'-2 11/16"
D_6	4'-10 1/2"
D_7	4'-6 5/16"
D_8	4'-3 15/16"
D_9	4'-1 5/8"
D_{10}	3'-9 5/16"
D_{11}	3'-5 1/8"
D_{12}	3'-2 3/4"
D_{13}	3'-0 1/2"
D_{14}	2'-8"
D_{15}	2'-5"

TABLE OF DIMENSIONS

Beam No.	"A"	"B"	"C"
1-5	12'-9 3/16"	13'-8"	13'-8"
6	12'-7 5/16"	13'-6 3/4"	13'-6 7/8"
7	12'-5 3/4"	13'-5 1/16"	13'-5 5/8"
8	12'-8 1/16"	13'-7 7/8"	13'-7 5/8"

TOP OF FLANGE ELEVATIONS - BEAM 8

(For Fabrication Only)

Location	Elevation
℄ Brg. N. Abut.	837.39
℄ Splice #1	837.39
℄ Pier 1	837.39
℄ Splice #2	837.40
℄ Pier 2	837.40
℄ Splice #3	837.40
℄ Pier 3	837.35
℄ Brg. S. Abut.	837.16

Notes: N.T.R. denotes Notch Toughness Requirements.
Diaphragms D_2 thru D_{14} are perpendicular to Beam 8.
Two hardened washers shall be required over all 15/16"ϕ holes in diaphragms only.

All structural steel fabricators performing work on the main load carrying components of steel structures shall be certified under category I (AISC) Quality Certification Program.
Removal of existing rivets shall be incidental to Structural Steel.

DESIGNED	VICTOR VELIZ Eric Gowdy	Dec. 22 19 87
CHECKED	Eric Gowdy VICTOR VELIZ	EXAMINED Craig O. Kaspar, Engineer of Bridges and Structures
DRAWN	D-Herbert	PASSED James T. Rahner, Engineer of Operations
CHECKED	V.V. E.E.G.	APPROVED Director of Highways

I-2-D 8-30-80

STRUCTURAL STEEL DETAILS (E.B. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-1
HENRY COUNTY
STA. 22+64.70

MODEL: Default
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VEENSTRA & KIMM INC.

DESIGNED -	PMO	REVISED -	
DRAWN -	PMO	REVISED -	
CHECKED -	DMS	REVISED -	
DATE -	04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 6 OF 10 SHEETS | STA. | TO STA.

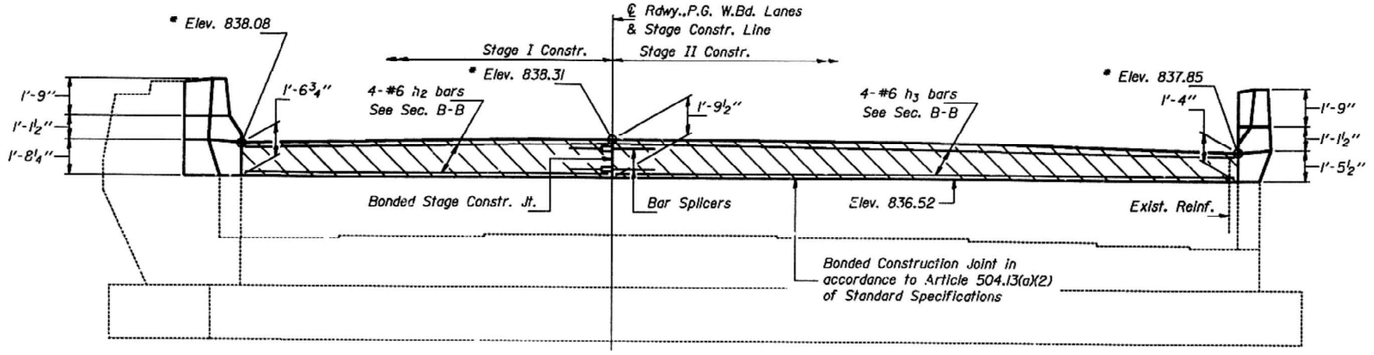
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	104
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

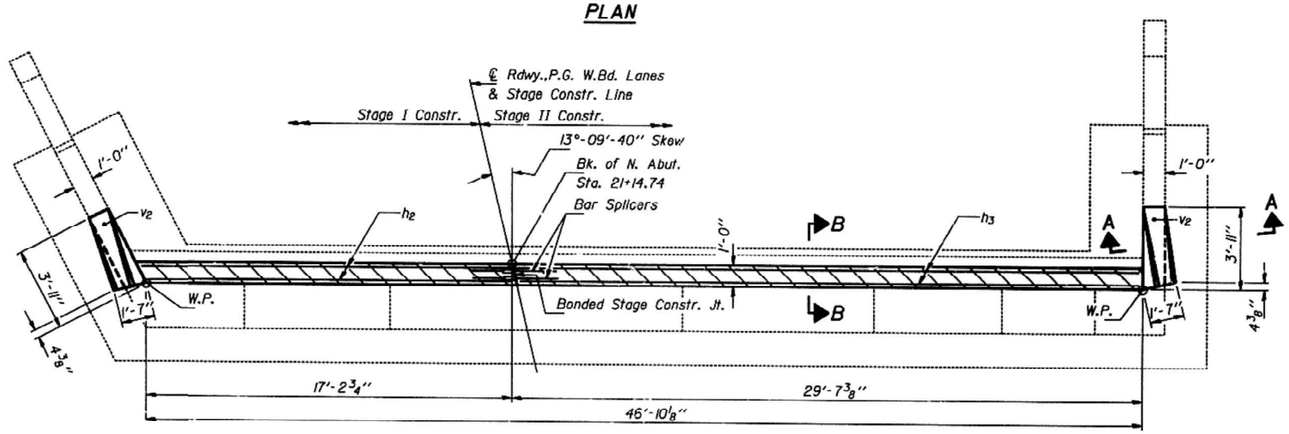
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 74	*	KNOX & HENRY	73	54
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 18
26 SHEETS

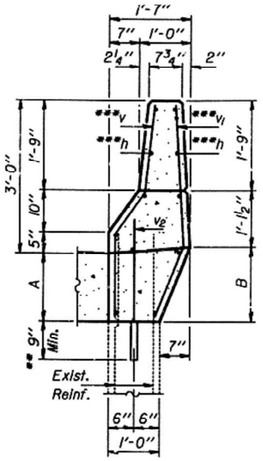
(37-24,49-24,49-25)RS-1, (48-26-1)RS



PLAN



ELEVATION

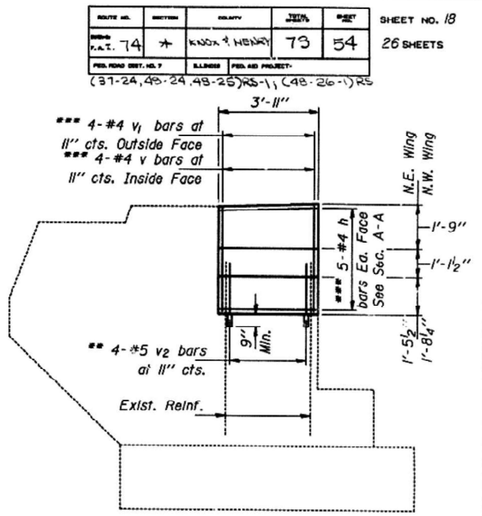


SECTION A-A

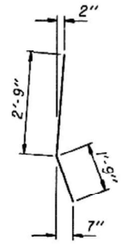
DIMENSIONS "A" & "B"

Loc. \ Dim.	A	B
N.E. Wing	1'-4"	1'-5½"
N.W. Wing	1'-6¾"	1'-8¼"

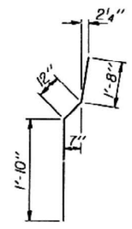
SECTION B-B



WINGWALL ELEVATION



BAR v1



BAR v

NORTH ABUTMENT
BILL OF MATERIAL

Bar	No.	#	Length	Shape
h	20	#4	3'-8"	
h2	4	#6	17'-4"	
h3	4	#6	29'-3"	
v	8	#4	4'-6"	
v1	8	#4	4'-6"	
v2	8	#5	2'-9"	
Class X Concrete		Cu. Yd.	1.3	
Reinforcement Bars		Lbs.	400	
Concrete Removal		Cu. Yd.	4.4	

Notes:
* Elevations are at front face of hatched area.
** Epoxy grout v2 bars in 1⅛"ϕ x 9" minimun drilled holes. (Use a grout approved by the Department or a epoxy grout in accordance with BSP-11 (See Special Provisions). The method of grout application shall be approved by the Engineer).
*** Order h, v and v2 bars full length as detailed. Bend and cut as necessary in the field to fit the transition.
Hatched area to be poured after superstructure forms have been removed. Quantity of "Class X Conc ete Superstructure" is billed with superstructure, see sheet #10 of 26.
Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into new construction.

DESIGNED	Victor Veite
	Eric Gawdy
CHECKED	Eric Gawdy
	Victor Veite
DRAWN	John F. Schneller Jr.
CHECKED	V.V. E.E.G.

Dec. 22 1987
EXAMINED Engineer of Bridge Design Division
PASSED James T. Hackett Engineer of Bridges and Structures
APPROVED Director of Highways

NORTH ABUTMENT (W. BD. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-I
HENRY COUNTY
STA. 22+64.70

MODEL: Default
FILE NAME: \\KIRA-RI\Bkshare\0509\0523-HL_DOT_District_1\0523-0008-0904_PTB205_007_W04_FAP74_over_IL17_Ph2_PS_E\CADD_Bentley_ORD_Sheets\Record-Plans_Existing-Structures\68510-sht-Record-Plans_Ex-Structures.dgn

VEENSTRA & KIMM INC.		DESIGNED - PMO	REVISED -	
		DRAWN - PMO	REVISED -	
		CHECKED - DMS	REVISED -	
		DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 7 OF 10 SHEETS | STA. | TO STA.

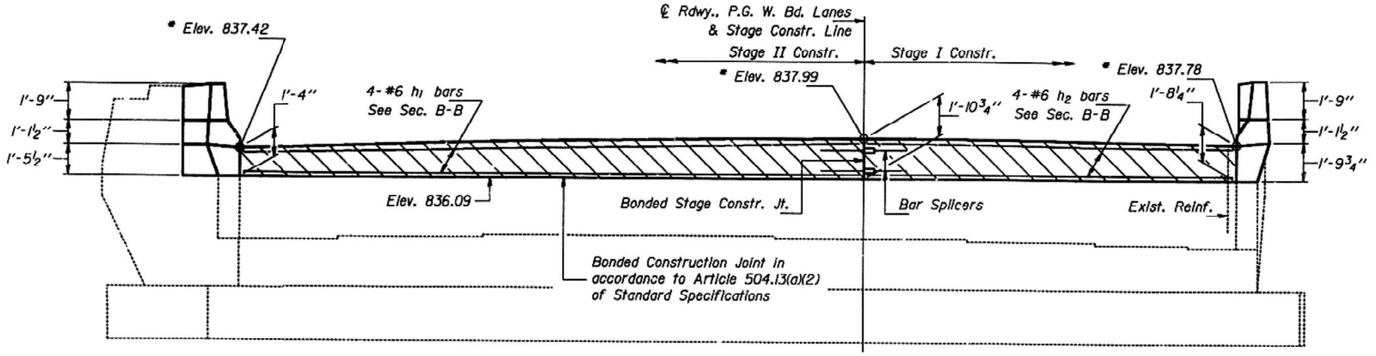
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	105
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

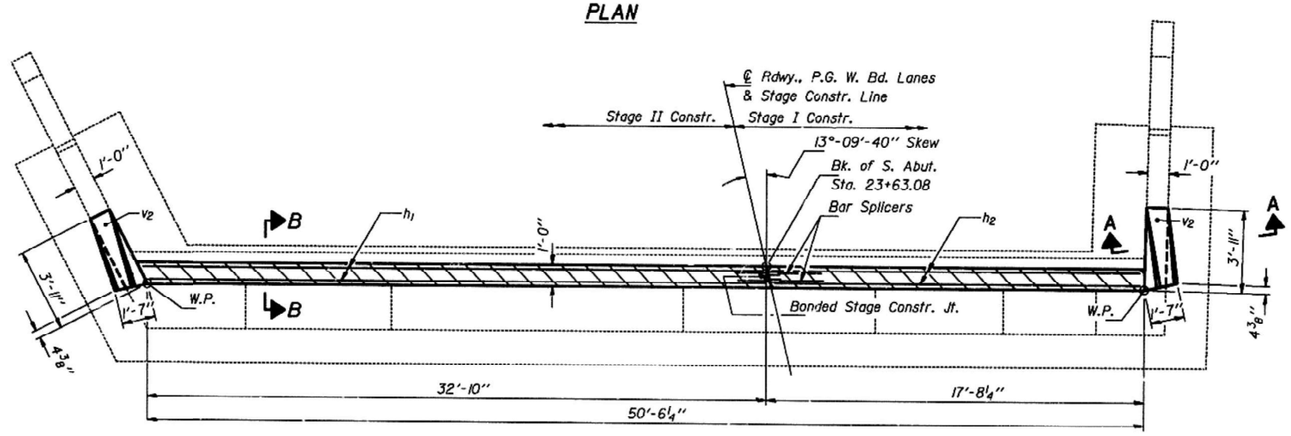
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.I. 74	4	KNOX & HENRY	73	55
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 19
26 SHEETS

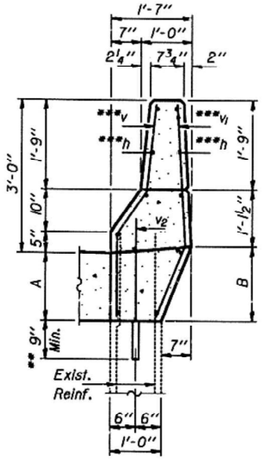
*(37-24,48-24,48-25)RS-1; (48-26-1)25



PLAN



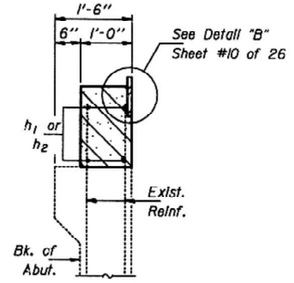
ELEVATION



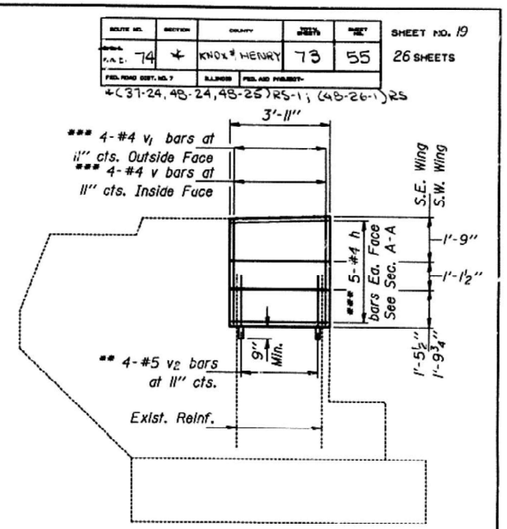
SECTION A-A

DIMENSIONS "A" & "B"

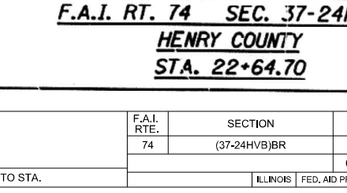
Loc. \ Dim.	A	B
S.E. Wing	1'-4"	1'-5½"
S.W. Wing	1'-8¼"	1'-9¾"



SECTION B-B



WINGWALL ELEVATION



BAR vl

BAR v

SOUTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	20	#4	3'-8"	
h1	4	#6	32'-11"	
h2	4	#6	17'-4"	
v	8	#4	4'-6"	
vl	8	#4	4'-6"	
vz	8	#5	2'-9"	
Class X Concrete			Cu. Yd.	1.4
Reinforcement Bars			Lbs.	420
Concrete Removal			Cu. Yd.	4.4

Notes:
* Elevations are at front face of hatched area.
** Epoxy grout vz bars in ⅞"ϕ x 9" minimum drilled holes. (Use a grout approved by the Department or a epoxy grout in accordance with BSP-11 (See Special Provisions). The method of grout application shall be approved by the Engineer).
*** Order h, v and vz bars full length as detailed. Bend and cut as necessary in the field to fit the transition.
Hatched area to be poured after superstructure forms have been removed. Quantity of "Class X Concrete Superstructure" is billed with superstructure, see sheet #10 of 26.
Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into new construction.

DESIGNED	VICTOR VELEZ Eric Gowdy
CHECKED	Eric Gowdy VICTOR VELEZ
DRAWN	John F. Schneller Jr.
CHECKED	V.V. E.E.G.

EXAMINED Dec. 22 1987
Engineer of Bridge Design
PASSED James T. Hyburn
Engineer of Bridges and Structures
APPROVED
Director of Highways

SOUTH ABUTMENT (W. BD. LANES)
F.A.I. RT. 74 SEC. 37-24HVB-I
HENRY COUNTY
STA. 22+64.70

MODEL: Default
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VEENSTRA & KIMM INC.		DESIGNED - PMO	REVISED -	
		DRAWN - PMO	REVISED -	
		CHECKED - DMS	REVISED -	
		DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 8 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	106
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

(37-2645-24,45-24)RS-1, (45-26-)RS

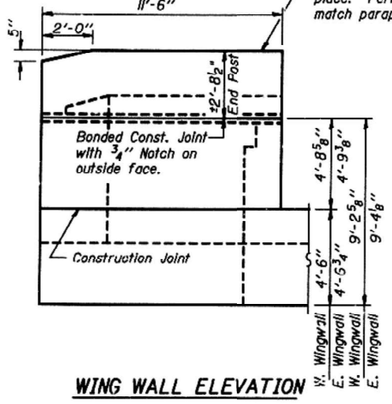
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 74	✱	KNOX & HENRY	73	56
FED. ROAD CONT. NO. 9		ILLINOIS	FED. AID PROJECT	

SHEET NO. 20
26 SHEETS

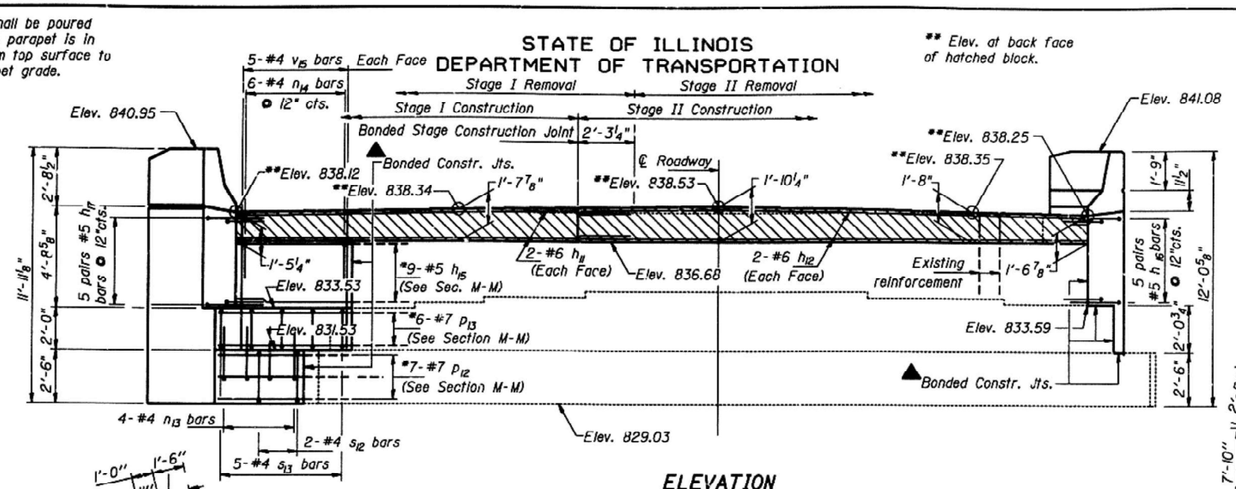
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
Space reinforcement in cap to miss anchor bolts.
For wingwall Details see sheet #22 of 26.
* Epoxy grout h_{15}, h_{16}, & h_{17}, bars in $\frac{7}{8}$"ϕ x 9" min.
v_{14} bar in 1" ϕ x 9" min.
and p_{12}, p_{13} & p_{14} bar in $1\frac{1}{8}$"ϕ x9" minimum drilled holes.
(See Special Provisions).
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete for hatched area is included with "Class X Concrete Superstructure".
▲ Bonded Construction Joint in accordance with Article 504.13 (a)(2) of Standard Specifications.

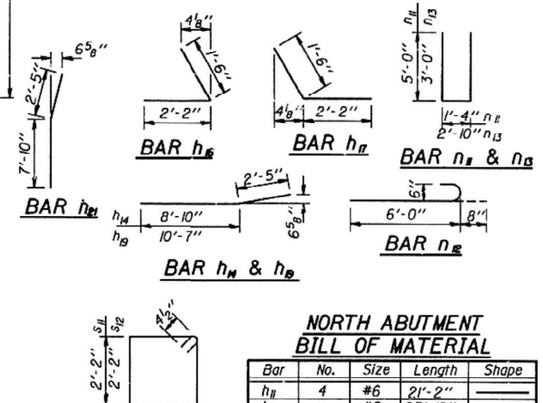
End Post shall be poured after bridge parapet is in place. Form top surface to match parapet grade.



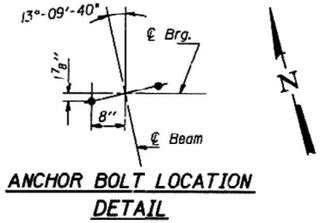
WING WALL ELEVATION



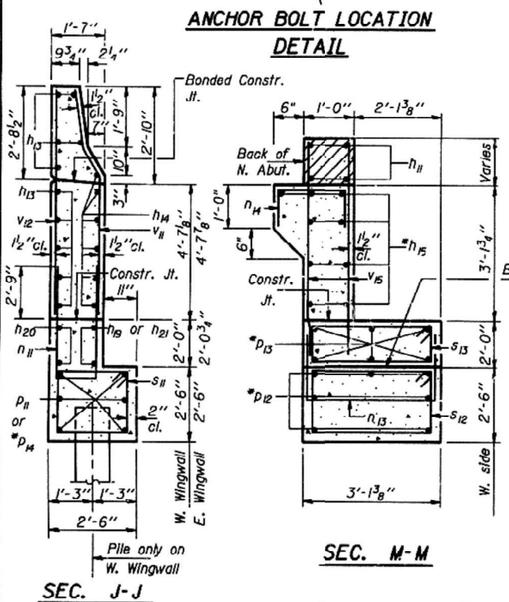
ELEVATION



Min. Bar laps
#5 bars 2'-2"
#6 bars 2'-7"



ANCHOR BOLT LOCATION DETAIL



SEC. J-J

SEC. M-M

DESIGNED	VICTOR VELEZ Eric Gawdy
CHECKED	Eric Gawdy VICTOR VELEZ
DRAWN	Rita Williams Paul W. Sweet
CHECKED	V.V. E.E.G.

Dec 22 1987

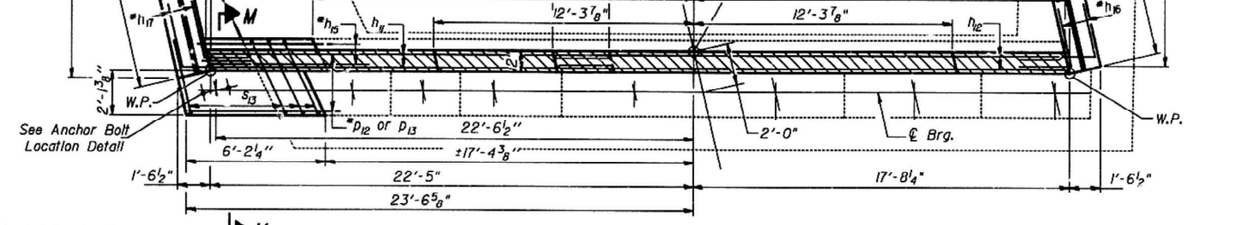
EXAMINED Craig D. Kaspar, ENGINEER OF BRIDGE DESIGN

PASSED James J. Taylor, ENGINEER OF BRIDGES AND STRUCTURES

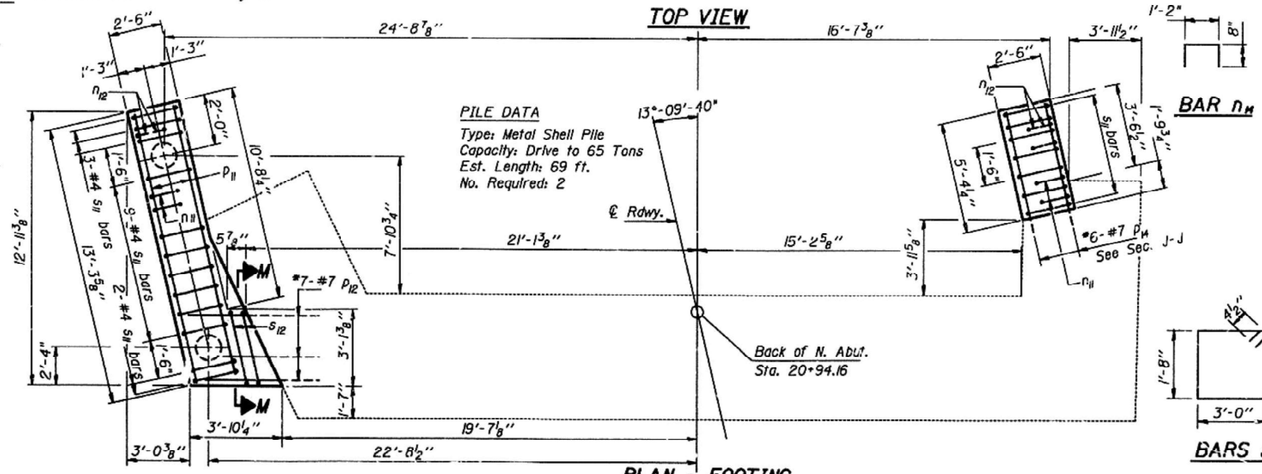
APPROVED

DIRECTOR OF HIGHWAYS

TOP VIEW

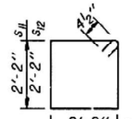


PLAN - FOOTING

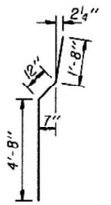


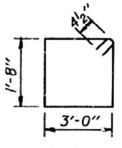
NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{11}	4	#6	21'-2"	
h_{12}	4	#6	23'-10"	
h_{13}	22	#4	11'-3"	
h_{14}	12	#4	11'-3"	
h_{15}	9	#5	5'-6"	
h_{16}	10	#5	3'-8"	
h_{17}	10	#5	3'-8"	
h_{19}	2	#4	13'-0"	
h_{20}	2	#4	13'-0"	
h_{21}	2	#4	10'-3"	
n_{11}	12	#6	11'-4"	
n_{12}	12	#6	6'-8"	
n_{13}	4	#4	8'-10"	
n_{14}	6	#4	2'-6"	
p_{11}	6	#7	13'-0"	
p_{12}	7	#7	4'-6"	
p_{13}	6	#7	6'-9"	
p_{14}	6	#7	5'-11"	
s_{11}	20	#4	9'-5"	
s_{12}	2	#4	10'-9"	
s_{13}	5	#4	10'-1"	
v_{11}	18	#6	1'-4"	
v_{12}	24	#6	7'-3"	
v_{13}	6	#6	7'-2"	
v_{14}	14	#6	5'-6"	
v_{15}	10	#4	6'-5"	
Class X Concrete		Cu. Yd.	17.3	
Reinforcement Bars		Lbs.	2300	
Metal Shell Piles (14")		Lin. Ft.	138	
Concrete Removal		Cu. Yd.	10.1	



BARS s_{11} & s_{12}





BARS s_{13}

NORTH ABUTMENT (E.B. LANES)
F.A.I. ROUTE 74 SEC. 37-24HVB-I
HENRY COUNTY
STATION 22+64.70

MODEL: Default
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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 9 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	107
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAI RTE 74	*	KNOX & HENRY	73	57
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 21
26 SHEETS

4-(37-24,48-24,48-25)RS-1,(48-26-1)RS

End Post shall be poured after bridge parapet is in place. Form top surface to match parapet grade.

1"-ϕ Anchor Bolts cost to be incidental to Bridge Structure. At exit end of one-way Bridges only.

** Elev. at back face of hatched block.

Notes: Space reinforcement in cap to miss anchor bolts. For wingwall Details see sheet #22 of 26.
* Epoxy grout h_{16} & h_{17} bars in $\frac{7}{8}$"ϕ x 9" min. and v_{16} bar in $\frac{3}{4}$"ϕ x 9" min. and v_{14} bar in 1" ϕ x 9" min. and p_{15}, p_{16} or p_{17} bar in $1\frac{9}{16}$"ϕ x9" min. drilled holes. (See Special Provisions).
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete for hatched area is included with "Class X Concrete Superstructure".
▲ Bonded Construction Joint in accordance with Article 504.13 (a)(2) of Standard Specifications.

WING WALL ELEVATION

W. Wingwall, E. Wingwall, W. Wingwall, E. Wingwall

ELEVATION

Stage II Removal / Stage I Removal
Stage II Construction / Stage I Construction
2'-3¼" Bonded Stage Construction Joint
℄ Roadway
Elev. 840.87 / Elev. 840.75
Bonded Constr. Jts.
**Elev. 838.15 / **Elev. 838.04 / **Elev. 838.35 / **Elev. 838.17 / **Elev. 837.92
1'-9" / 1'-9¼"
1'-7¾" Existing reinforcement
Elev. 833.36
2-#6 h_{18} (Each Face)
1'-11³⁄₈" Elev. 836.40
2-#6 h_{11} (Each Face)
Bonded Constr. Jts.
1'-6¼" Elev. 833.30
5 *pair #5 h_{17} bars @ 12"ctrs.
5 pairs #5 h_{16} bars @ 12"ctrs.
3-#4 s_{14}
*2-#4 p_{15} bars (Each Face)
Elev. 831.30
Elev. 828.80
*2-#4 v_{16} bars (Each Face)
12'-0⅞" / 11'-11³⁄₈"
2'-6" / 2'-0¾" / 4'-9⅝" / 2'-8½" / 1'-9" / 1½"
9'-3" / 9'-4⅜" / 4'-9" / 4'-6" / 4'-6¼" / 4'-9⅝"

VIEW K-K

2¼" 9¾" 5" 1'-9" 4" 1'-1" ℄ 1" ϕ Anchor Bolts

1" ϕ ANCHOR BOLT

Galvanized Locknut and Washer
3'-6"
4" Threads
Nut
8" Galvanized

ANCHOR BOLT LOCATION DETAIL

1'-7" 9¾" 2¼" Bonded Constr. Jt.
2'-8½" 2'-9" 2'-6" 2'-0¾" W. Wingwall E. Wingwall
℄ Brg. 13°-09'-40" 1⅞" 8" ℄ Beam #8

Min. Bar laps
#5 bars 2'-2"
#6 bars 2'-7"

SEC. L-L

TOP VIEW

17'-2¾" / 25'-4¼"
Stage II Removal / Stage I Removal
Stage II Construction / Stage I Construction
2'-3¼" Bonded Stage Construction Joint
13°-09'-40"
6'-7⅛"
℄ Roadway
Back of S. Abut. Sta. 23+42.50
17'-5½" / 25'-1½"
12'-3⅞" / 12'-3⅞"
1'-6½"
18'-9¼" / 25'-2⅞"
25'-11⅜"
27'-2⅞"
2'-0" See Anchor Bolt Location Detail
3-#4 s_{14}
W.P.
2'-0⅝" 2'-5" 11'-2⅜" 11'-6" 7" 11" 1'-0" 2'-1⅜" 2'-1⅞" 11⅜"
*h_{11} *h_{16} *p_{15} *p_{16}

PLAN - FOOTING

19'-0⅛" 21'-10"
2'-6" 3'-0" 3'-1" 3'-11" 4'-9" 4'-7½" 9'-7¼" 4'-11¾" 10"
6-#4 s_{11} @ 12"ctrs.
5-#4 s_{11} @ 12"ctrs. ±3'-2" ±3'-9" ±3'-10"
*p_{17} *p_{16}
17'-11⅛" 22'-6½"
13°-09'-40"
℄ Rdwy.
Back of S. Abut. Sta. 23+42.50

BAR h_{11}

4⅛" 1'-6" 2'-2"

BAR h_{17}

4⅛" 1'-6" 2'-2"

BAR h_{18}

5'-0" 1'-4"

BAR h_{16}

2'-2" 2'-2" s_{14} 1'-8" s_{14} 1'-9" s_{14}

BAR n_{12}

6" 6'-0" 8"

BARS s_{11} & s_{14}

BAR h_{14} & h_{21}

h_{14} 2'-5" h_{21} 2'-5" s_{14}
8'-10" h_{14} 7'-10" h_{21} 6⅝" 5⅝"

BAR v_{12}

2¼" 1'-8" 12" 7"

BAR v_{16}

2¼" 1'-8" 5'-6"

BAR h_{23} & h_{24}

6⅝" 2¼" h_{23} h_{24} 2'-5" h_{23} 1'-0" h_{24} 10'-0" h_{23} 12'-9" h_{24}

SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{11}	4	#6	21'-2"	
h_{13}	20	#4	11'-3"	
h_{14}	12	#4	11'-3"	
h_{16}	10	#5	3'-8"	L
h_{17}	10	#5	3'-8"	J
h_{18}	4	#6	23'-8"	
h_{21}	2	#4	10'-3"	
h_{22}	2	#4	10'-3"	
h_{23}	2	#4	12'-5"	
h_{24}	2	#4	13'-9"	
n_{11}	4	#6	11'-4"	U
n_{12}	12	#6	6'-8"	U
p_{15}	4	#7	2'-6"	
p_{16}	6	#7	4'-5"	
p_{17}	6	#7	5'-4"	
s_{11}	11	#4	9'-5"	
s_{14}	3	#4	7'-7"	
v_{11}	18	#6	7'-4"	
v_{12}	24	#6	7'-3"	
v_{13}	6	#6	7'-2"	
v_{14}	28	#6	5'-6"	
v_{16}	4	#4	2'-7"	
Class X Concrete		Cu. Yd.	13.5	
Reinforcement Bars		Lbs.	1820	
Concrete Removal		Cu. Yd.	10.5	

DESIGNED	VICTOR VELIZ
CHECKED	Eric Gowdy
DRAWN	Rita Williams / Paul W. Sweet
CHECKED	V.V. E.E.G.

Dec. 27 1987
EXAMINED Engineer of Bridge Design
PASSED James T. Lapkowski Engineer of Bridges and Structures
APPROVED Director of Highways

12-1-87

SOUTH ABUTMENT (E.B. LANES)
F.A.I. ROUTE 74 SEC. 37-24HVB-I
HENRY COUNTY
STATION 22+64.70

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VEENSTRA & KIMM INC.

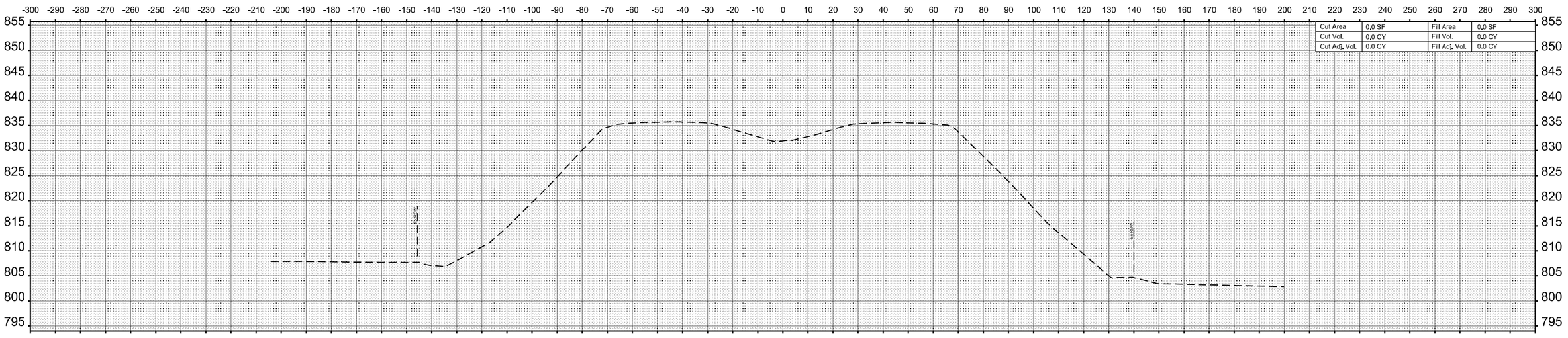
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD PLANS – EXISTING STRUCTURES
FOR INFORMATION ONLY

SCALE: | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	108
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		



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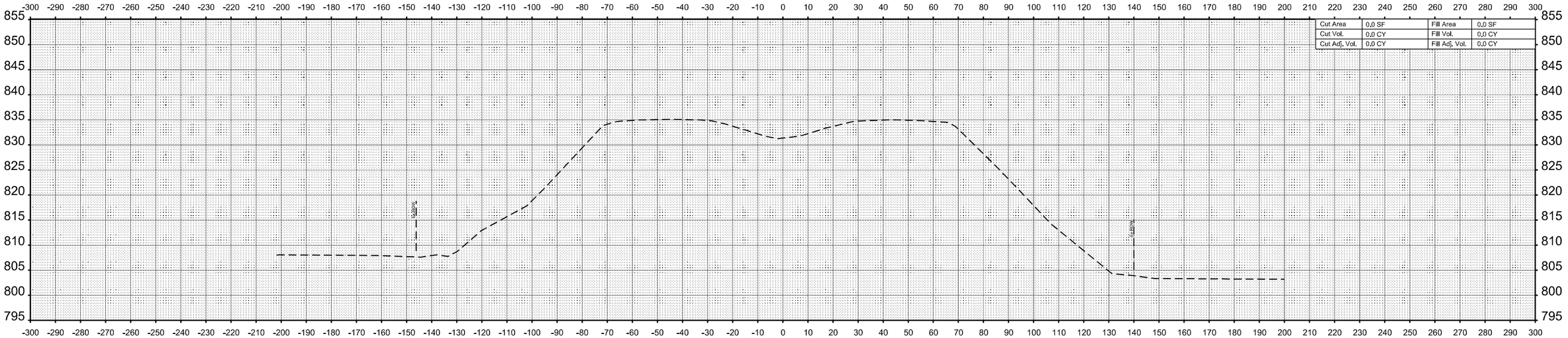

STA 17+00.00

VEENSTRA & KIMM INC.

DESIGNED	PMO	REVISED	-
DRAWN	PMO	REVISED	-
CHECKED	DMS	REVISED	-
DATE	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-74

SCALE: 1"=20' | SHEET 1 OF 9 SHEETS | STA. 17+00.00 | TO STA. 17+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	109
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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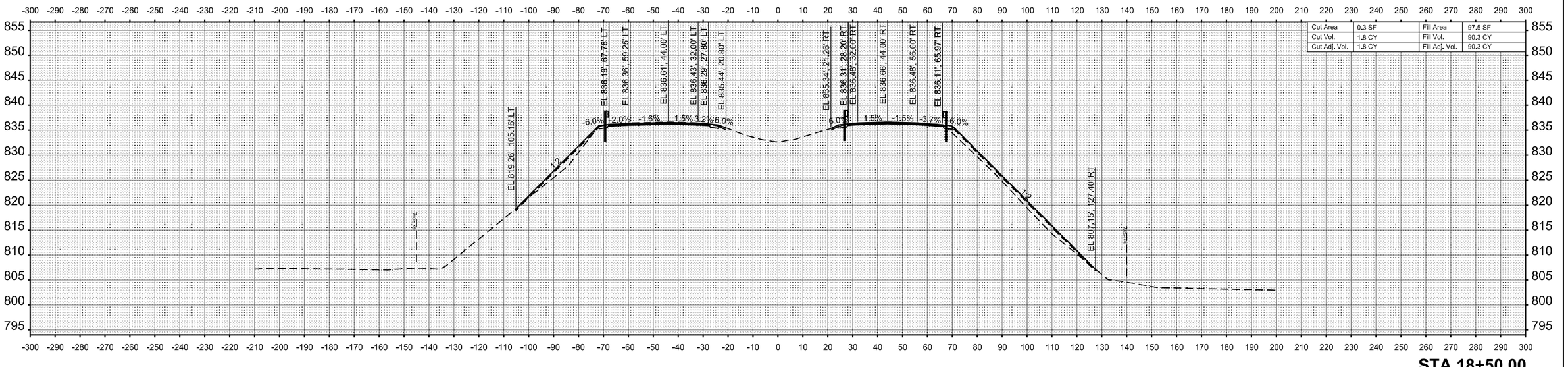

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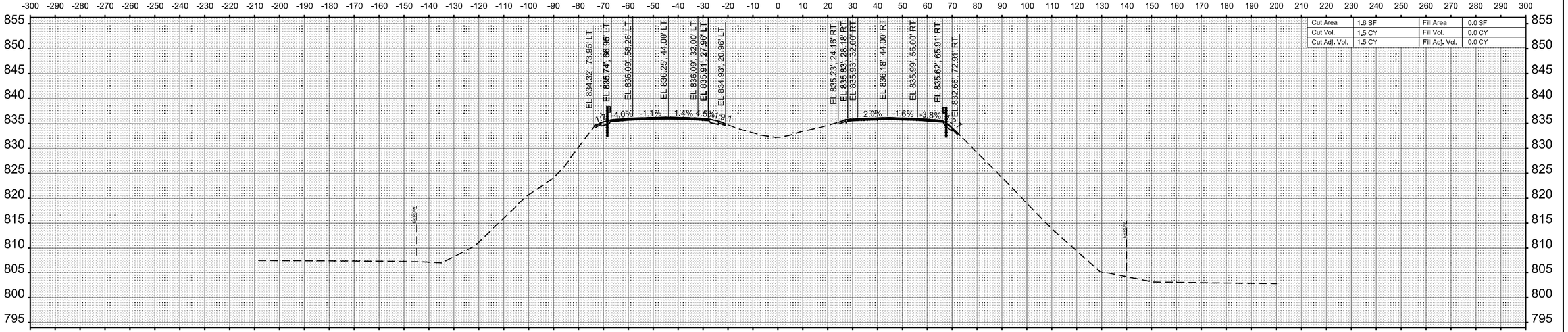

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VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

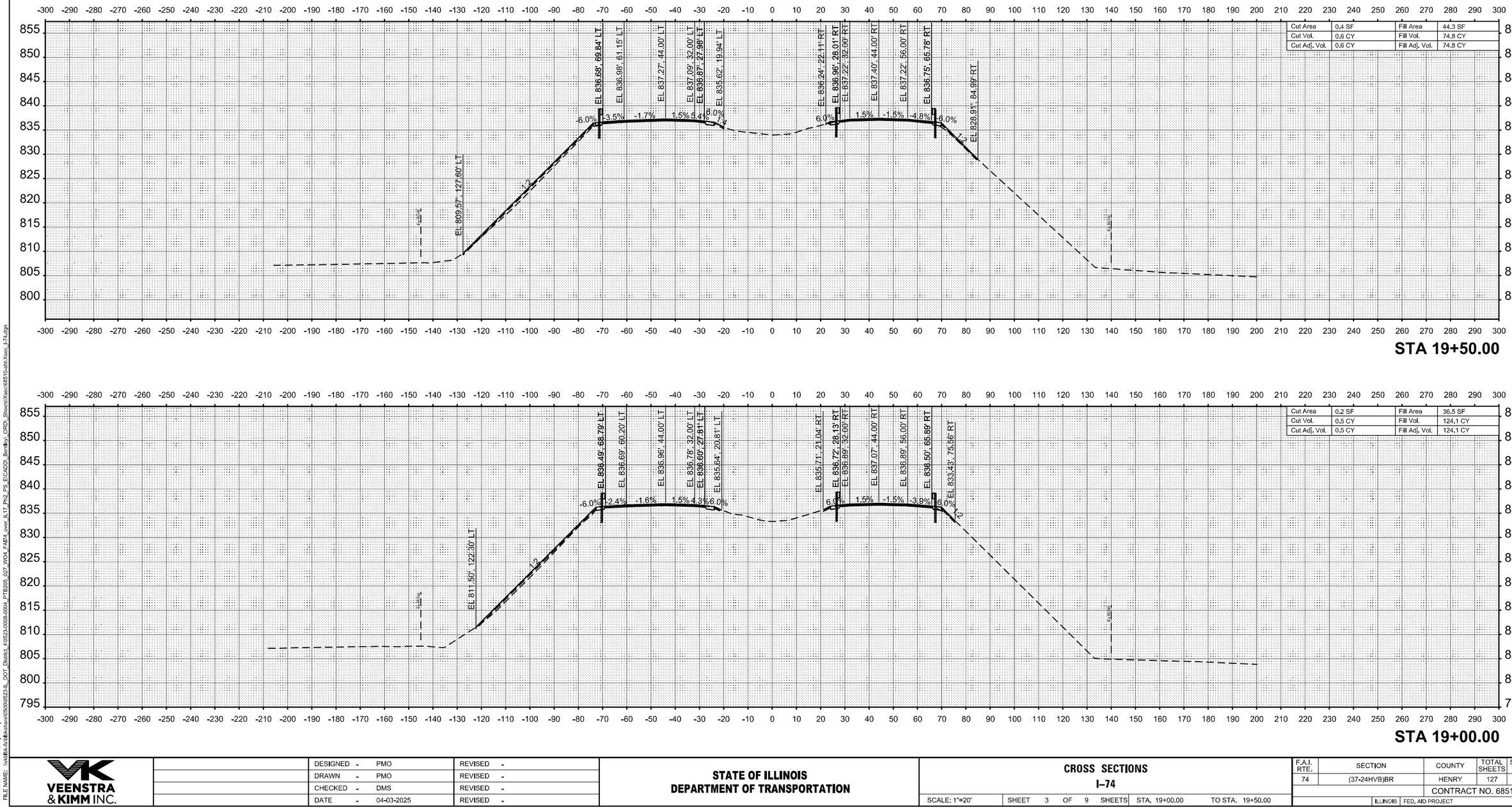
CROSS SECTIONS
I–74

SCALE: 1"=20' | SHEET 2 OF 9 SHEETS | STA. 18+00.00 | TO STA. 18+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	110

CONTRACT NO. 68510

ILLINOIS | FED. AID PROJECT



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DRAWN - PMO	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**I–74**
CHECKED - DMS	REVISED -		SCALE: 1"=20' | SHEET 3 OF 9 SHEETS | STA. 19+00.00 TO STA. 19+50.00
DATE - 04-03-2025	REVISED -		

VEENSTRA & KIMM INC.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	111
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			

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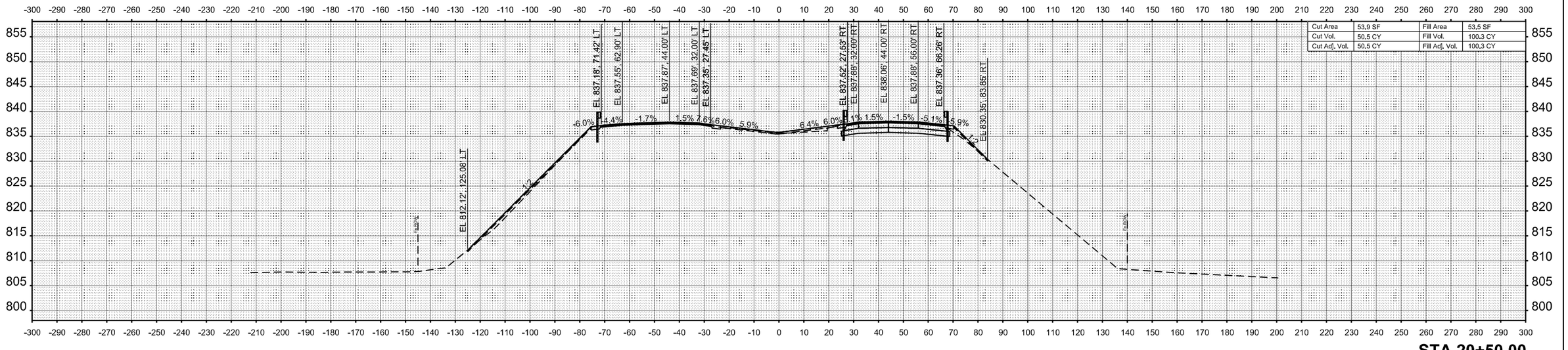

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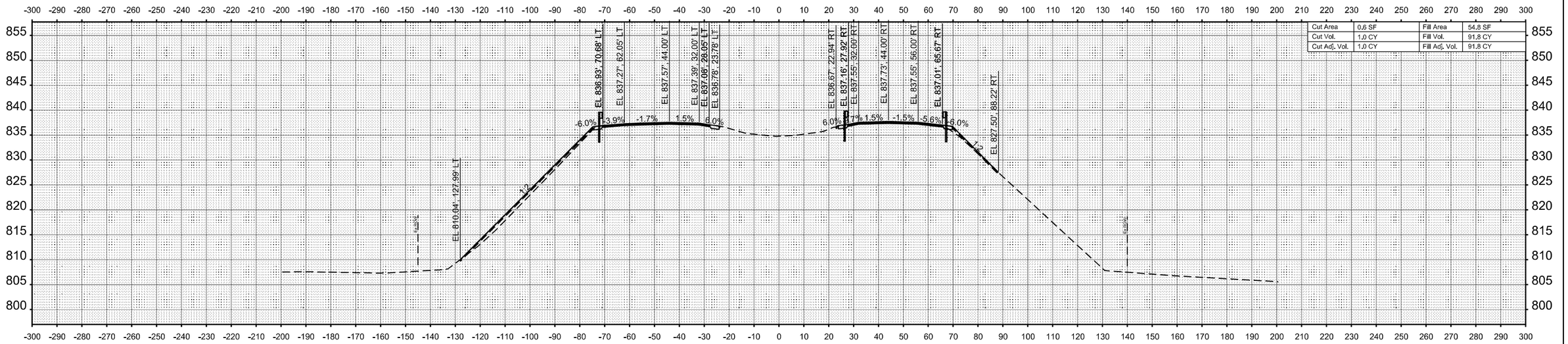

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VEENSTRA & KIMM INC.

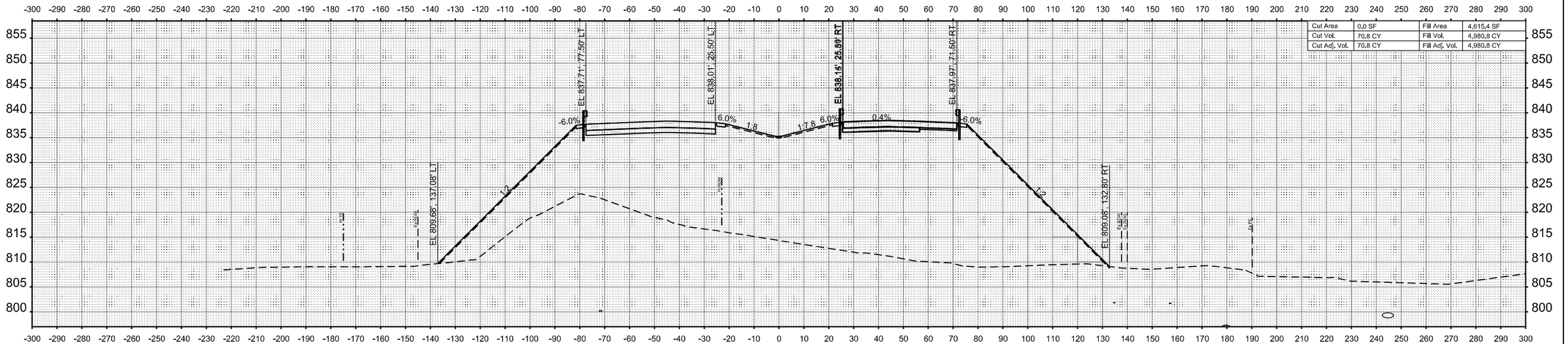
DESIGNED	PMO	REVISED	-
DRAWN	PMO	REVISED	-
CHECKED	DMS	REVISED	-
DATE	04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: 1"=20' | SHEET 4 OF 9 SHEETS | STA. 20+00.00 | TO STA. 20+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	112
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



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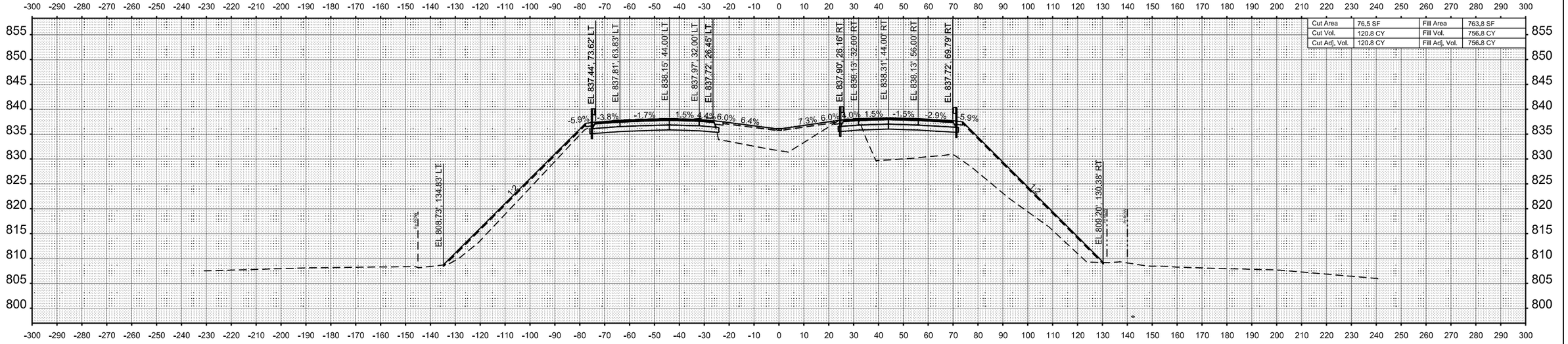

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VEENSTRA & KIMM INC.

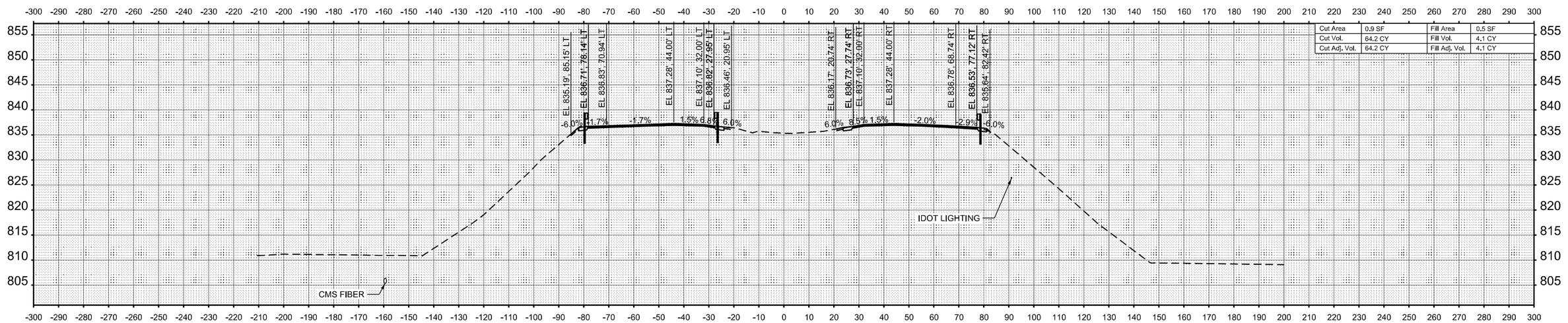
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: 1"=20' | SHEET 5 OF 9 SHEETS | STA. 21+00.00 | TO STA. 21+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	113
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



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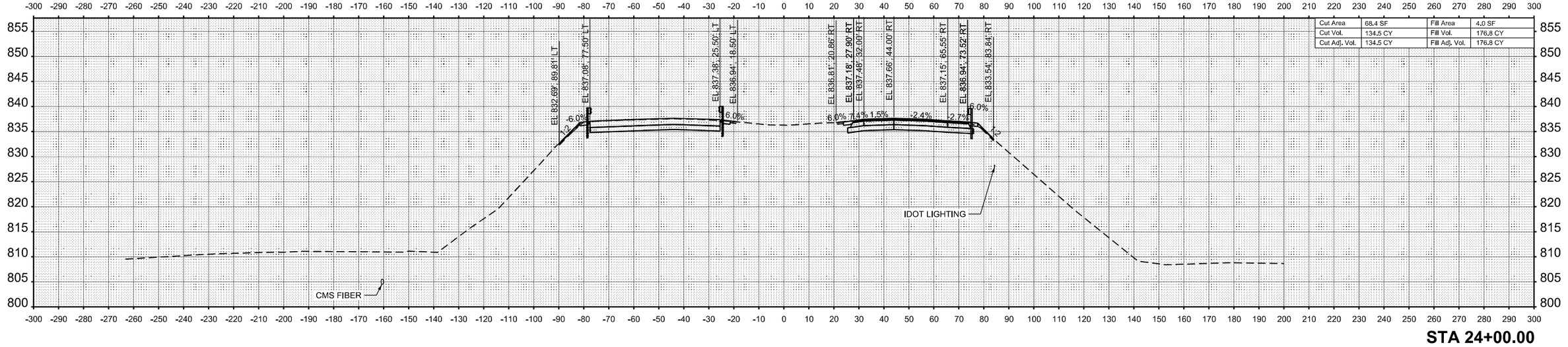

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VEENSTRA & KIMM INC.

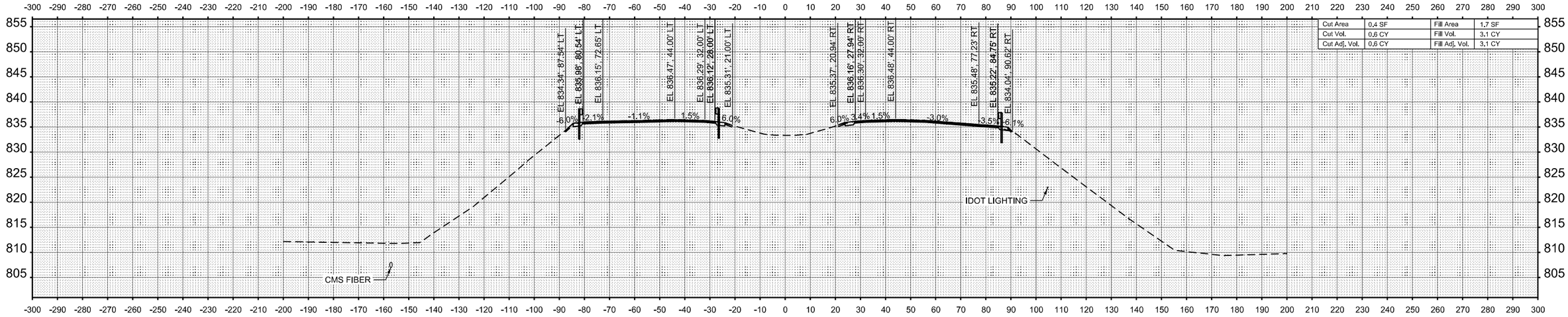
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: 1"=20' | SHEET 6 OF 9 SHEETS | STA. 24+00.00 | TO STA. 24+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	114
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



VEENSTRA & KIMM INC.		DESIGNED - PMO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS I-74
		DRAWN - PMO	REVISED -		
		CHECKED - DMS	REVISED -		
		DATE - 04-03-2025	REVISED -		

SCALE: 1"=20' | SHEET 7 OF 9 SHEETS | STA. 25+00.00 | TO STA. 25+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	115
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	

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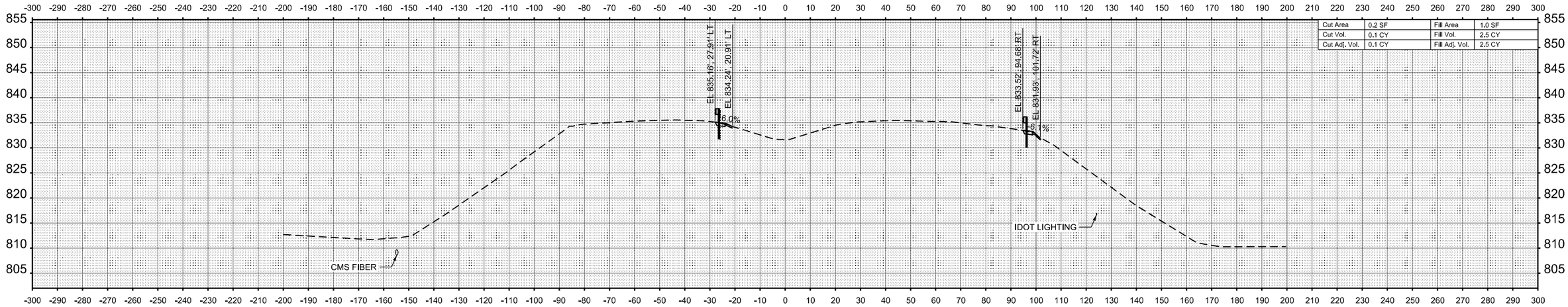
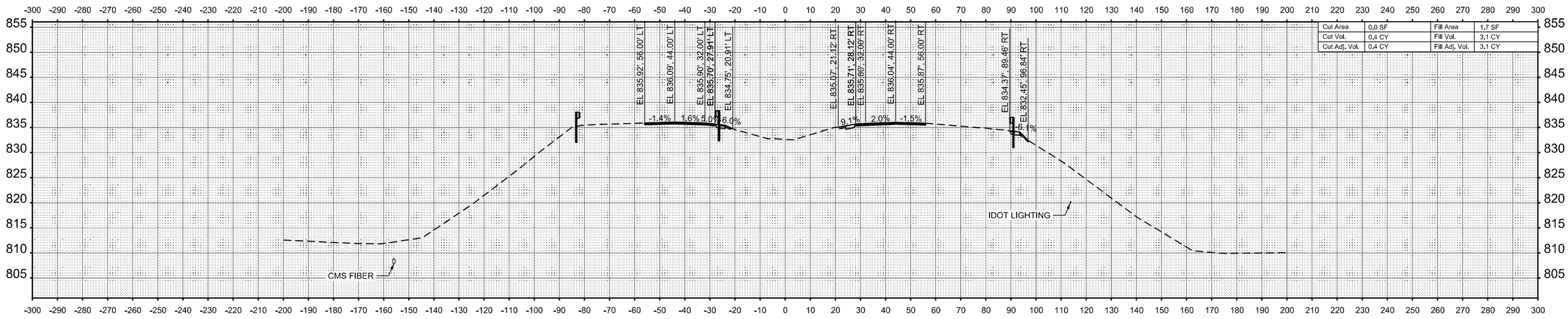


STA 26+50.00



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VEENSTRA & KIMM INC.

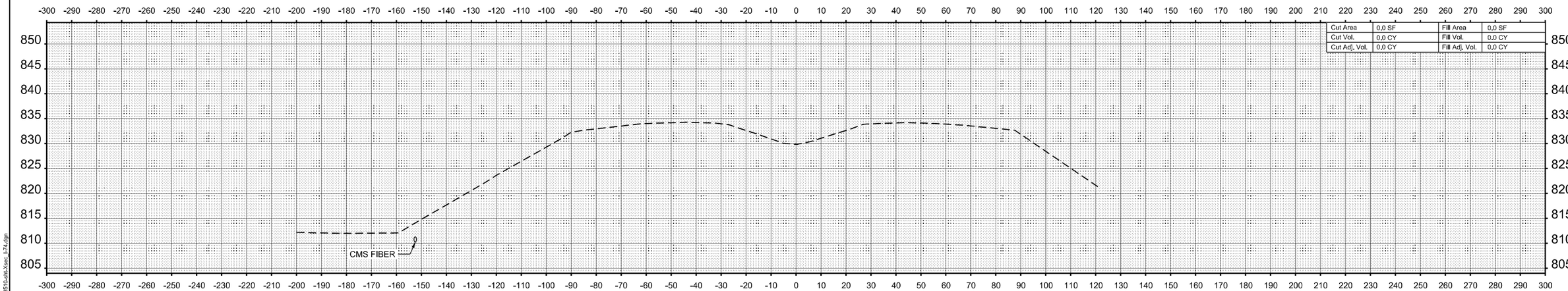
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

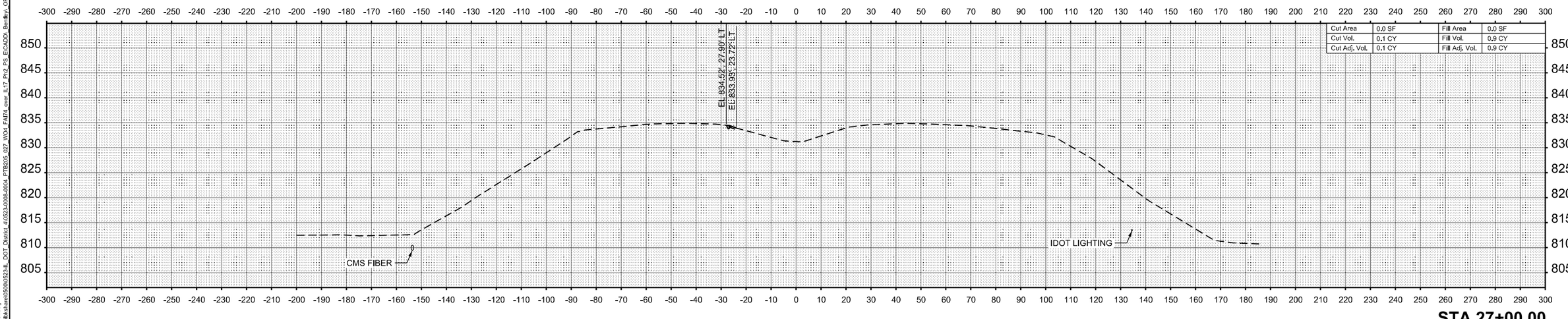
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: 1"=20' | SHEET 8 OF 9 SHEETS | STA. 26+00.00 | TO STA. 26+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	116
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			





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VEENSTRA & KIMM INC.

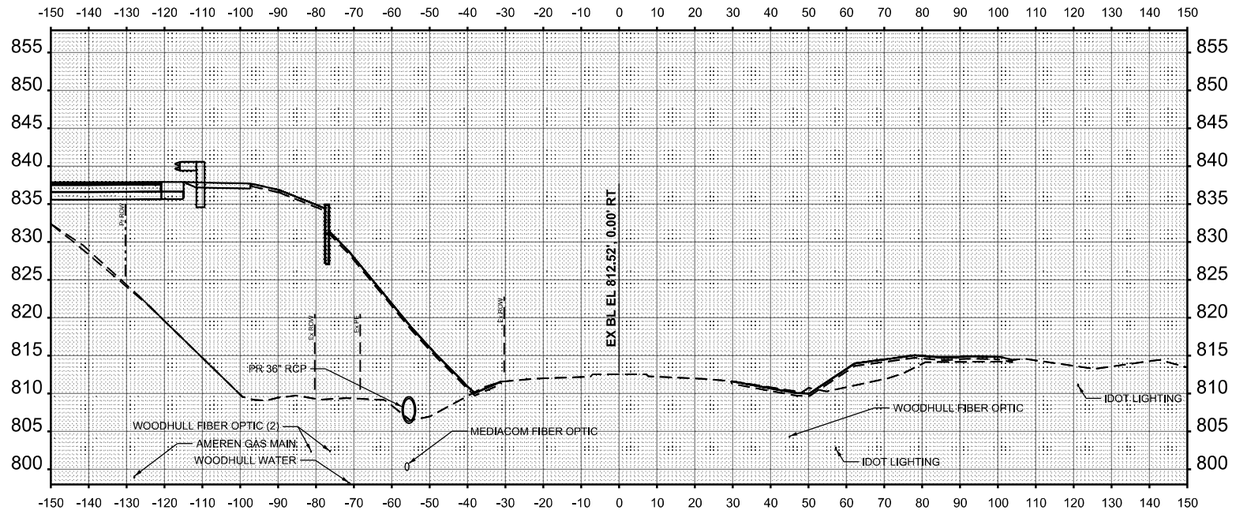
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: 1"=20' | SHEET 9 OF 9 SHEETS | STA. 27+00.00 | TO STA. 27+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	117
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



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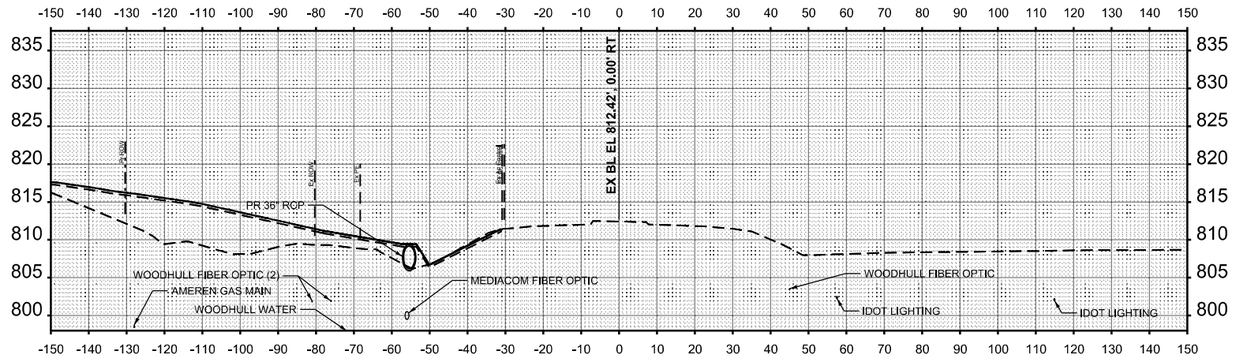

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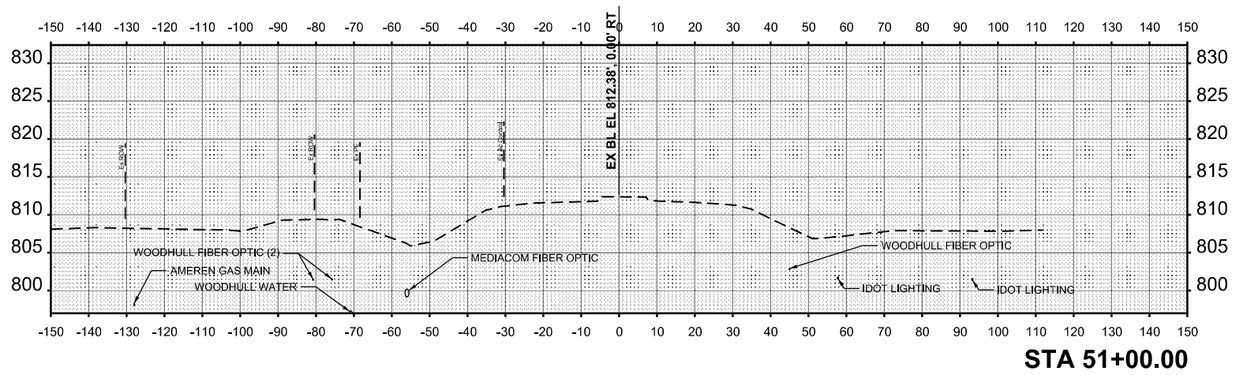

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VEENSTRA & KIMM INC.

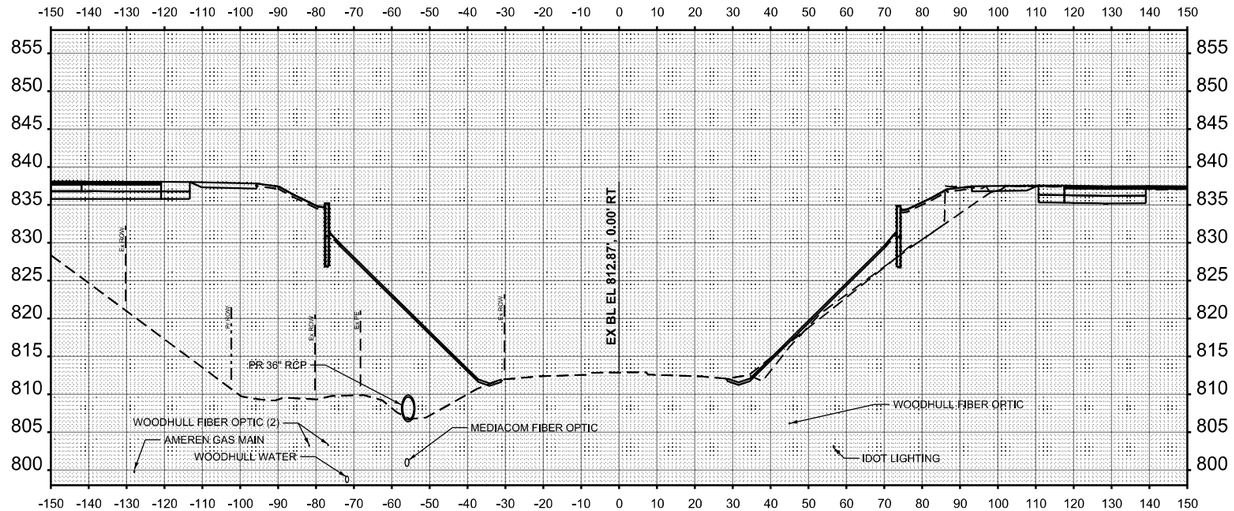
	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

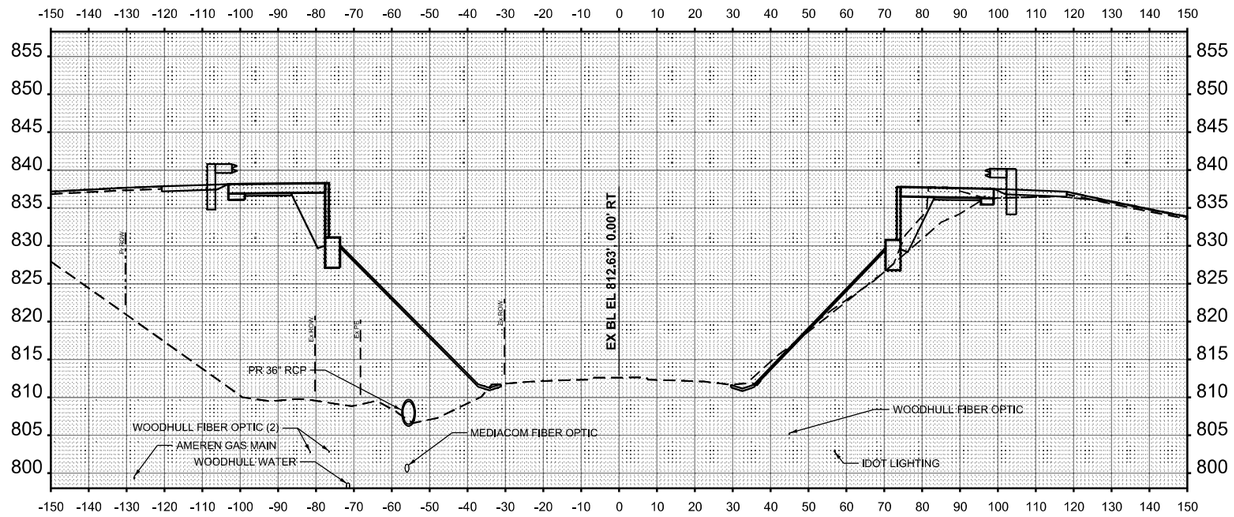
CROSS SECTIONS
IL 17

SCALE: 1"=20' | SHEET 1 OF 4 SHEETS | STA. 51+00.00 | TO STA. 52+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	118
		CONTRACT NO. 68510		
	ILLINOIS FED. AID PROJECT			



STA 53+00.00



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VEENSTRA & KIMM INC.

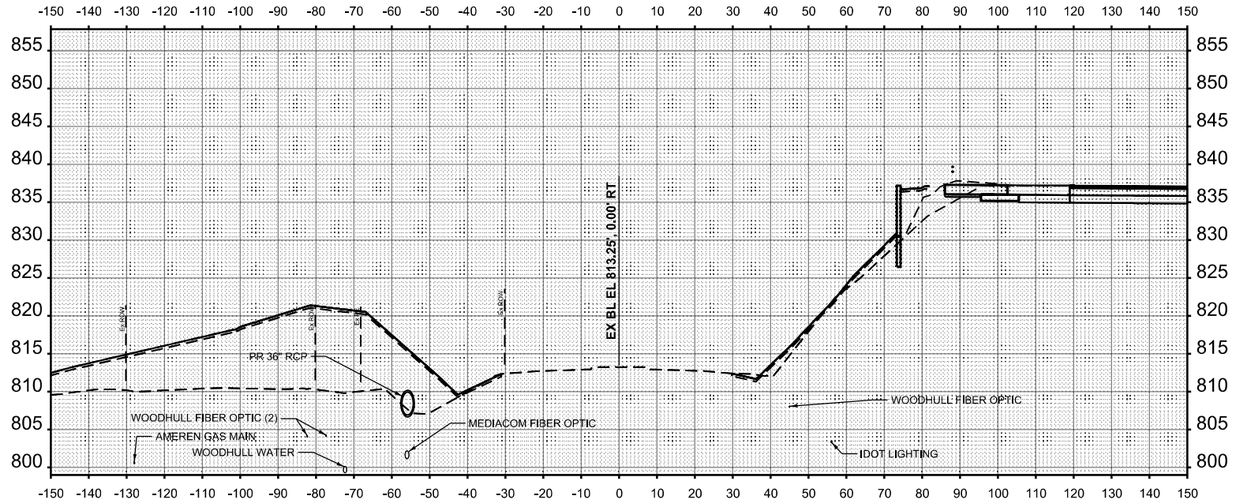
DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17

SCALE: 1"=20' | SHEET 2 OF 4 SHEETS | STA. 52+50.00 | TO STA. 53+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	119
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



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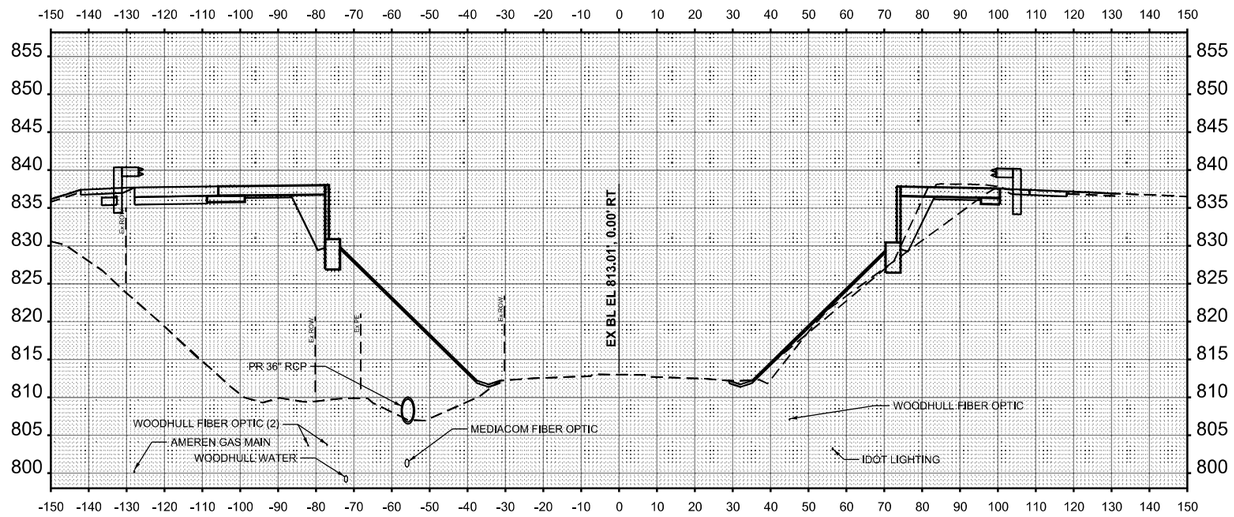

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VEENSTRA & KIMM INC.

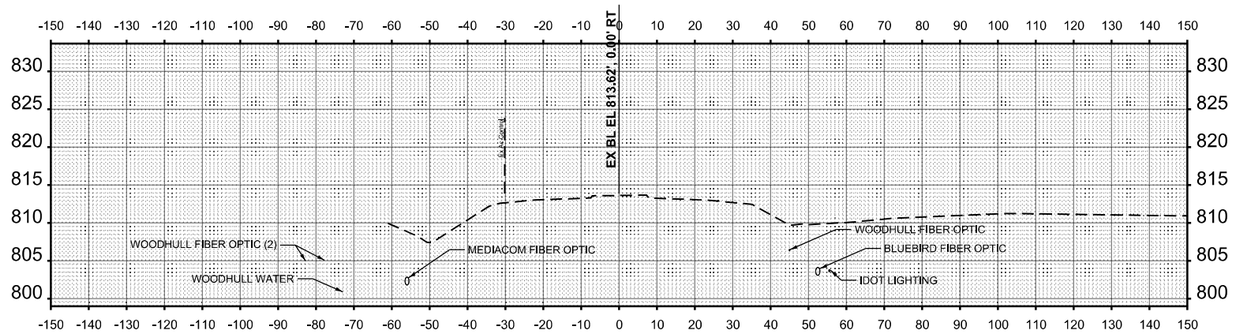
DESIGNED - PMO	REVISED -		
DRAWN - PMO	REVISED -		
CHECKED - DMS	REVISED -		
DATE - 04-03-2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

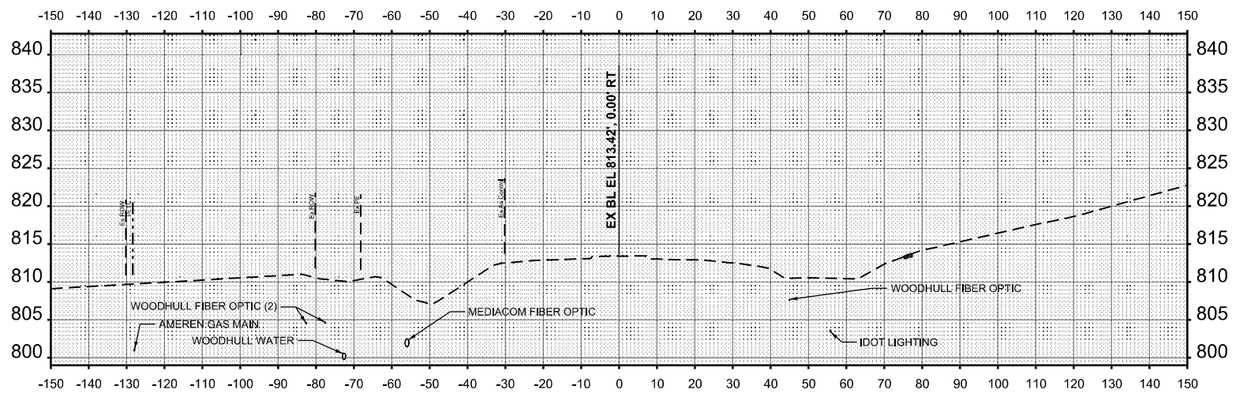
CROSS SECTIONS
IL 17

SCALE: 1"=20' | SHEET 3 OF 4 SHEETS | STA. 53+50.00 | TO STA. 54+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	120
		CONTRACT NO. 68510		
		ILLINOIS	FED. AID PROJECT	



STA 55+00.00



STA 54+50.00

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VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

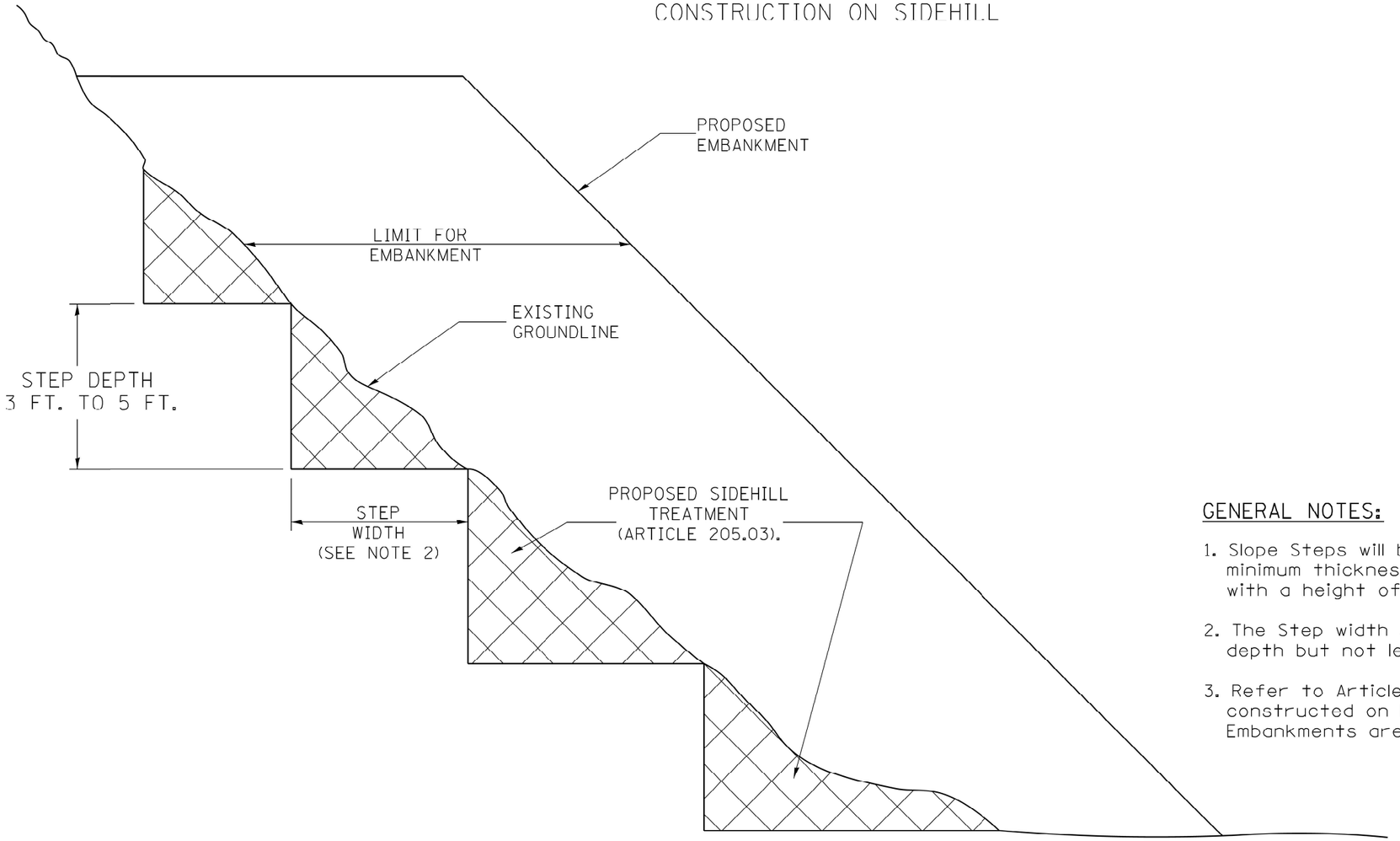
CROSS SECTIONS
IL 17

SCALE: 1"=20' | SHEET 4 OF 4 SHEETS | STA. 54+50.00 | TO STA. 55+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	121
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

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

REPLACEMENT MATERIAL:

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

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.			
	BOX, REVISED GENERAL NOTES.				
10-16-06	REVISED TO 2007 SPEC.	M.A.			
5-30-18	MINOR CORRECTION	R.D.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE STEPS DETAIL

NOT TO SCALE

CADD STD. 205001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

	DESIGNED -	PMO	REVISED -
	DRAWN -	PMO	REVISED -
	CHECKED -	DMS	REVISED -
	DATE -	04-03-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	122
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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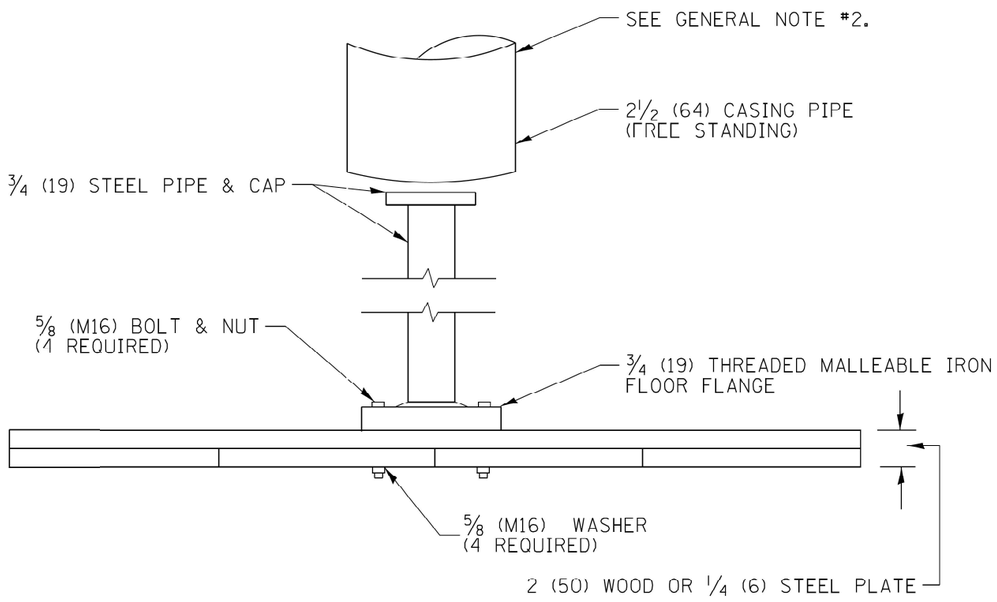

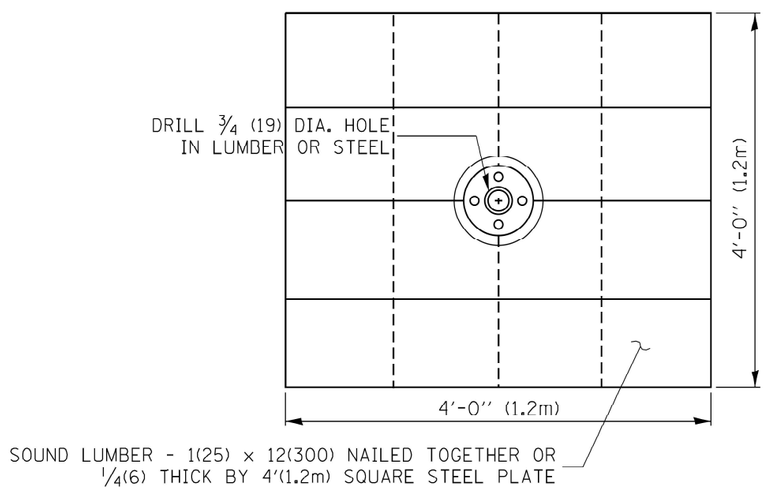

GENERAL NOTES:

1. Settlement Platform shall be in accordance with the appicable portions of Article 204.06 of the Standard Specifications.

2. Do Not install casing pipe until after one section of ¾"(19 mm) has been covered with earth. The casing pipe should not rest on platform.

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

1-1-97	RENUM. L-5.04, NEW REVISION BOX, REVISED NOTES,	T.P.	8-23-01	UPDATE FOR NEW SPEC.	M.A.	
	REVISED TITLE BOX		10-16-06	REVISED TO 2007 SPEC.	M.A.	
4-14-99	ADDED "CASING PIPE" REQUIREMENT	J.A.				
5-19-99	CORRECTIONS TO CASING PIPE	J.A.				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SETTLEMENT PLATFORM

NOT TO SCALE — CADD STD. 205101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

	DESIGNED - PMO		REVISED -
	DRAWN - PMO		REVISED -
	CHECKED - DMS		REVISED -
	DATE - 04-03-2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: — SHEET 2 OF 8 SHEETS — STA. — TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	123
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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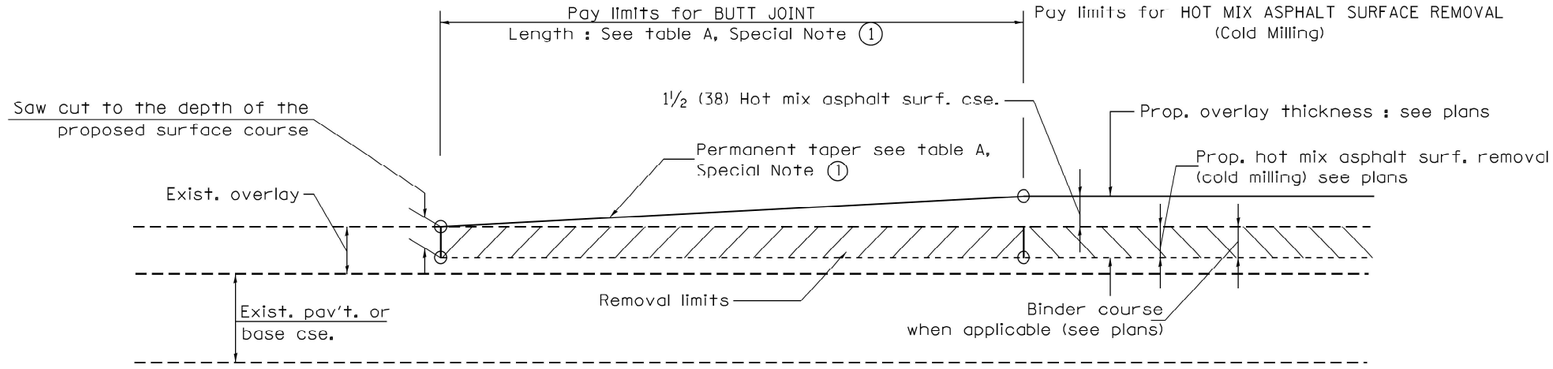


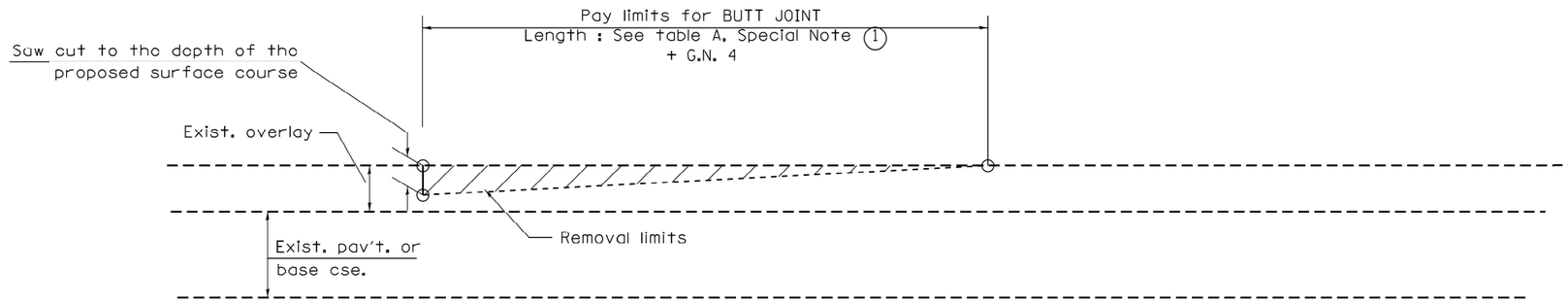
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
TAPER RATES

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
(1)	BUTT JOINT TAPER RATE	1:480	1:240
(2)	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.
04-01-97	CORRECTION TO DEPTH	J.A.	04-12-16	MINOR CORRECTIONS	R.D.
09-15-05	REVISED DESIGNER NOTE	M.M.A.	02-14-17	ADDED NOTE 5	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	07-16-19	Wording and Spelling corrections	R.D.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 1 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

DESIGNED -	PMO	REVISED -	
DRAWN -	PMO	REVISED -	
CHECKED -	DMS	REVISED -	
DATE -	04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	124
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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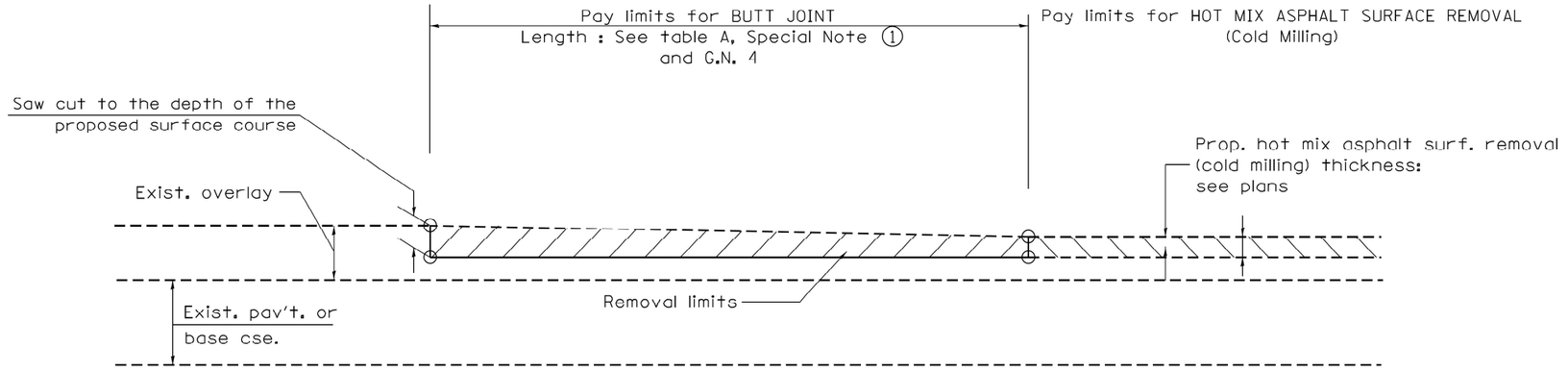
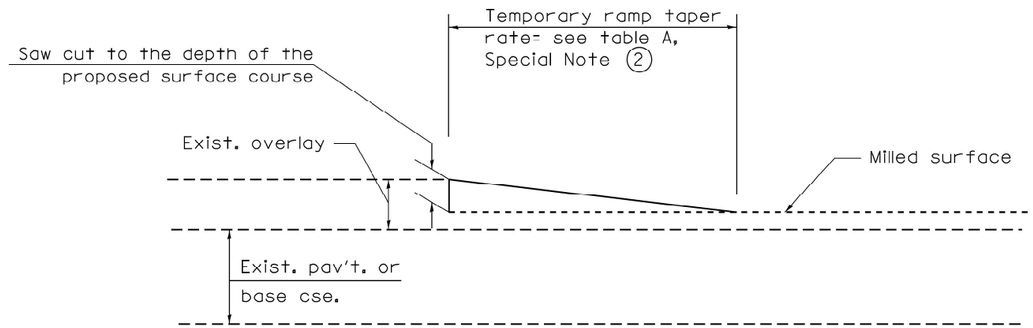


CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



DETAIL TEMPORARY RAMP

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: | SHEET 4 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	125
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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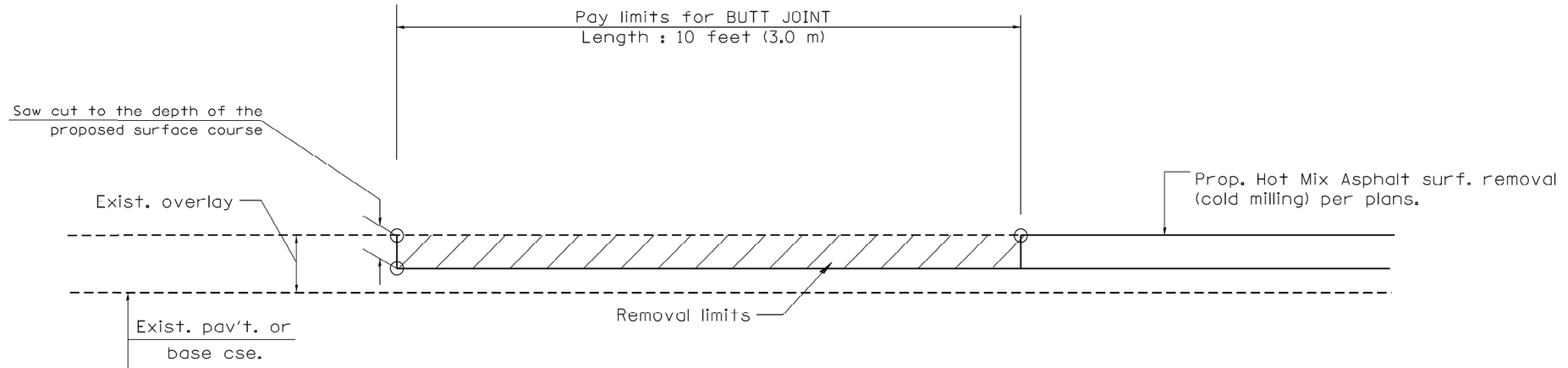

CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

	DESIGNED - PMO	REVISED -	
	DRAWN - PMO	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: | SHEET 5 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	126
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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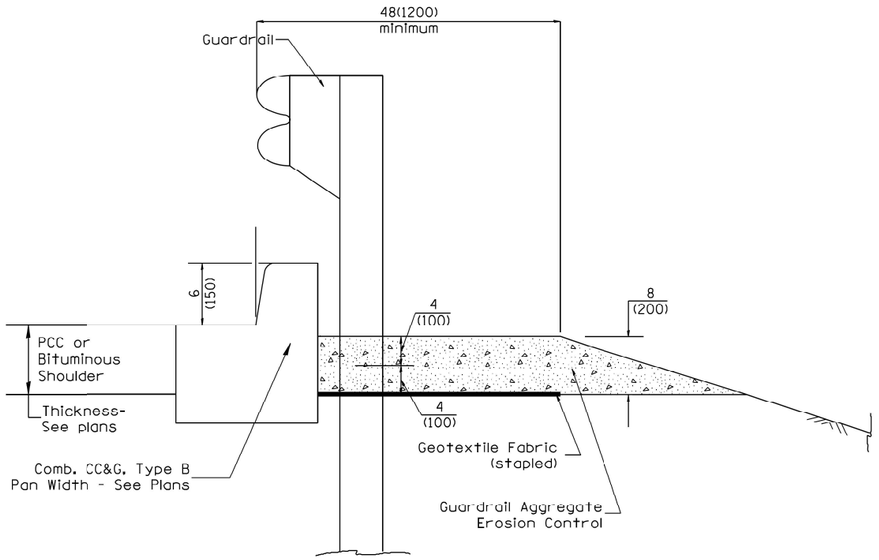
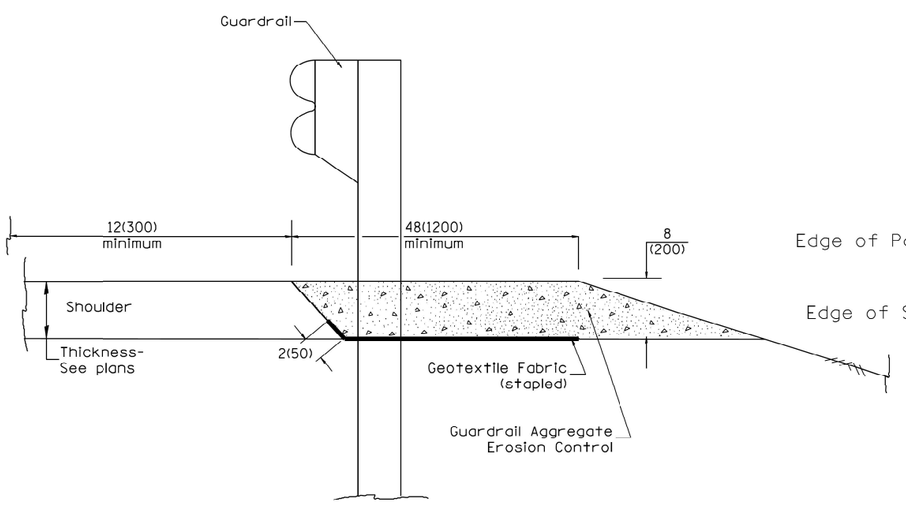


TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.

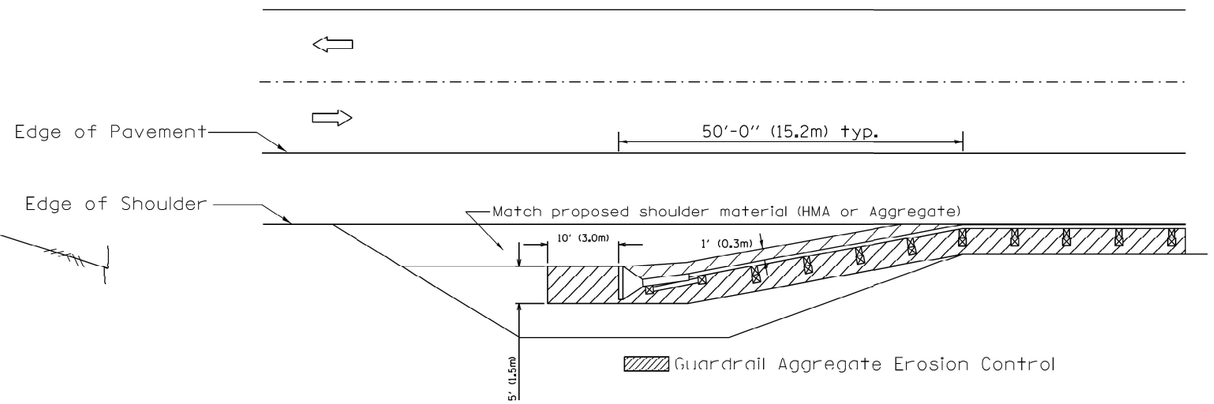
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods. In a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



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

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 1 OF 2
CADD STD. 630101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

DESIGNED -	PMO	REVISED -	
DRAWN -	PMO	REVISED -	
CHECKED -	DMS	REVISED -	
DATE -	04-03-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	127
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

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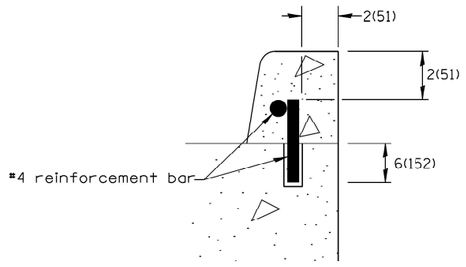
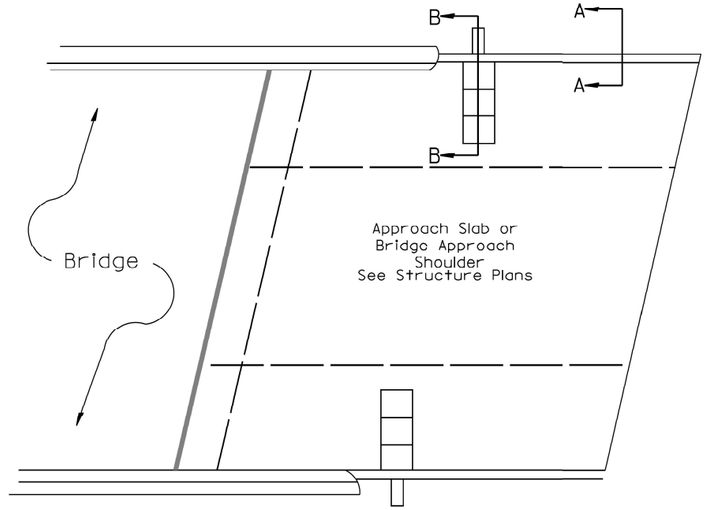
DETAIL "A"

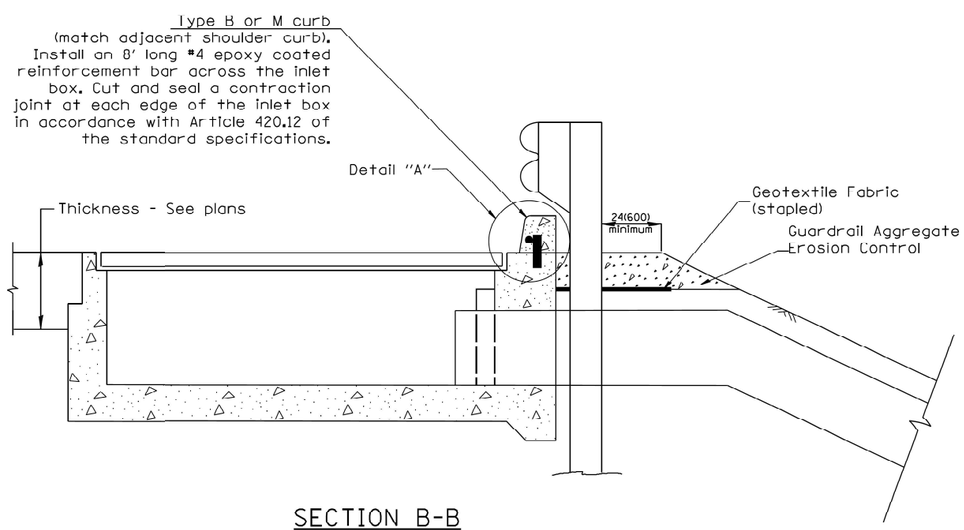
#4 reinforcement bars may be cast in PCC apron and precast inlet box or drilled and anchored with an approved chemical adhesive at 2' spacing. Cost of curb and reinforcement are included in the cost of shoulder inlet.





PLAN VIEW

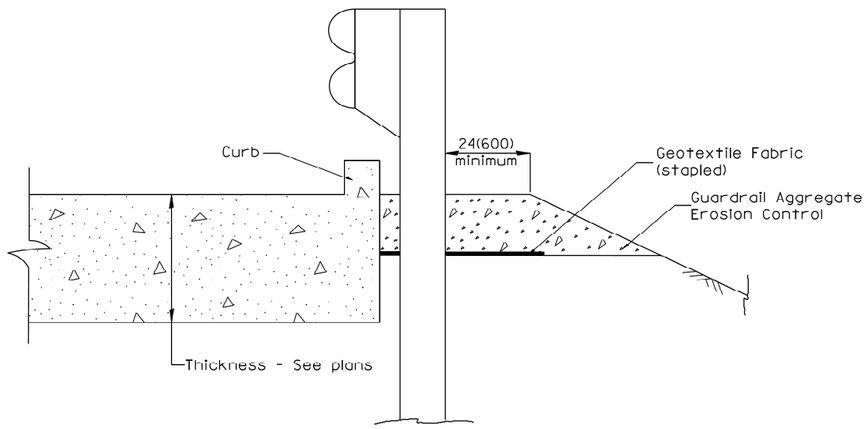
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B

TYPICAL SECTION AT INLETS

TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	127A
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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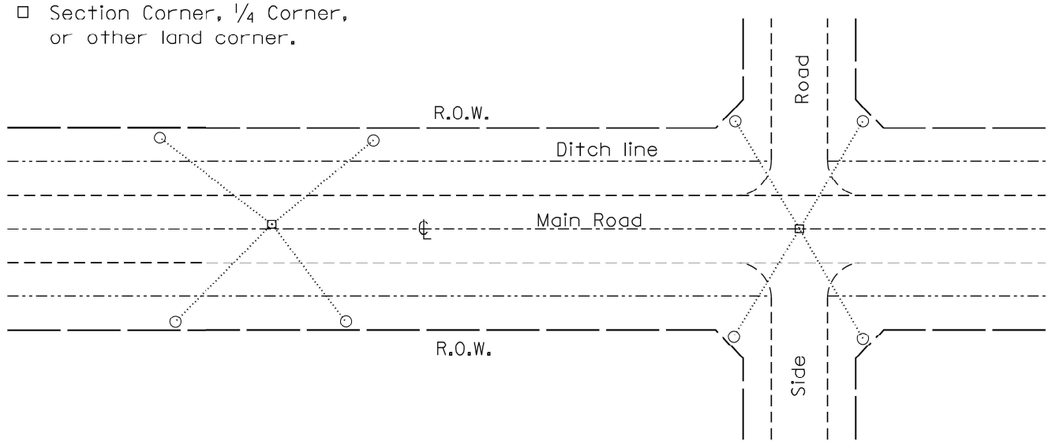
PERMANENT SURVEY TIES

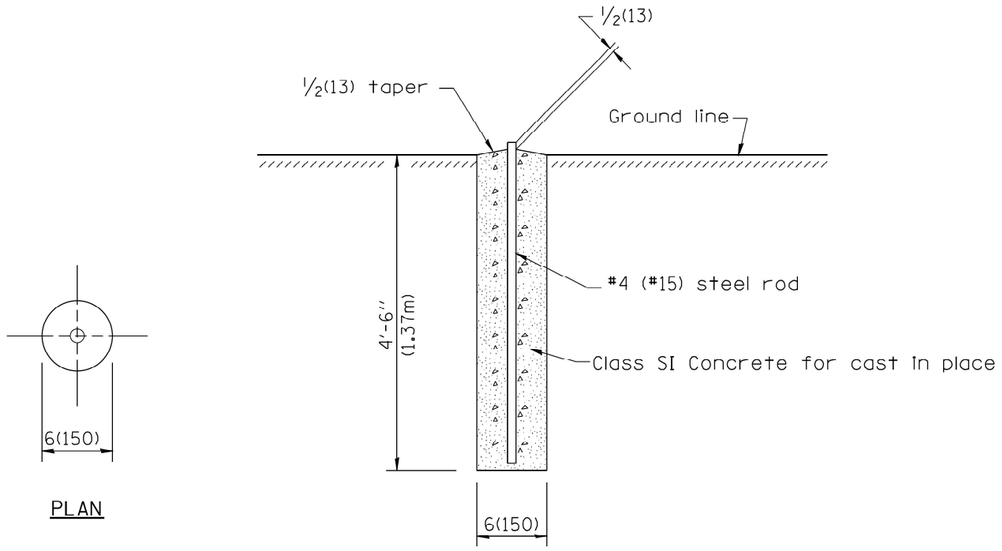
○ Permanent Survey Tie
□ Section Corner, 1/4 Corner, or other land corner.



TYPICAL APPLICATION

GENERAL NOTES

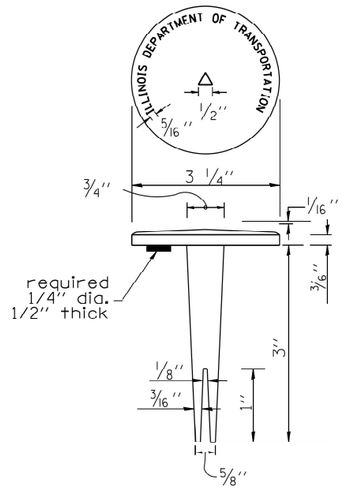
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats after recordation.
4. All documentation shall be performed by a PLS
5. The metal tablet used on permanent survey markers shall be made of bronze.



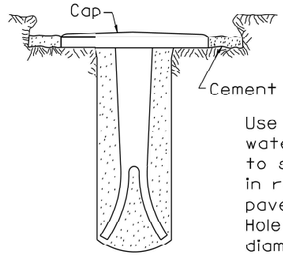
PLAN

SECTION

PERMANENT SURVEY MARKERS



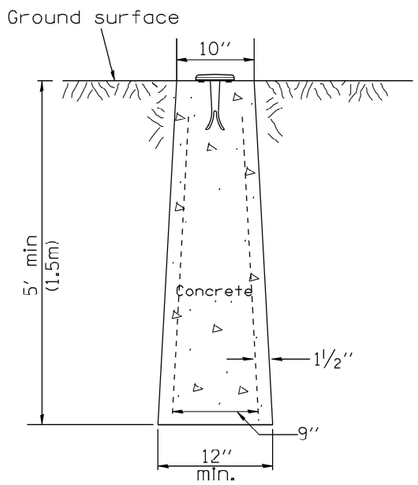
BRASS TABLET



Use pure cement and water or approved epoxy to seal marker tablet in rock ledge, concrete pavement or structure. Hole shall be 1 1/2" diameter.

Tablet constructed in rock ledge or concrete.

TYPE I



TYPE II
CAST-IN-PLACE MARKER

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

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

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.	08-21-13	CHANGED MIN. DIAMETER	R.D.
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.	08-25-15	REVISED MATERIAL	R.D.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I – TY.II

NOT TO SCALE — CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

VEENSTRA & KIMM INC.

DESIGNED	- PMO	REVISED	-
DRAWN	- PMO	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 04-03-2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: — SHEET 8 OF 8 SHEETS — STA. — TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(37-24HVB)BR	HENRY	127	127B
		CONTRACT NO. 68510		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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