09-19-2025 LETTING ITEM 066

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	1
	ILLINOIS	CONTRACT NO. 76A46		

* 586/586A/592

DESIGN DESIGNATION

FAP ROUTE 586/586A (ILLINOIS ROUTE 162) – OTHER PRINCIPAL ARTERIAL (NOT DESIGNATED TRUCK ROUTE)
FAP ROUTE 592 (ILLINOIS ROUTE 157) – OTHER PRINCIPAL ARTERIAL (NOT DESIGNATED TRUCK ROUTE)

TRAFFIC DATA

FAP 586 (IL 162) – WEST LEG

2021 ADT = 5,650 (ACTUAL)
2024 ADT = 5,900 (ESTIMATED)
2044 ADT = 7,400 (ESTIMATED)
SU = 4.0% MU = 1.6%

FAP 586A (IL 162) – EAST LEG

2021 ADT = 6,800 (ACTUAL)
2024 ADT = 7,000 (ESTIMATED)
2044 ADT = 8,900 (ESTIMATED)
SU = 3.3% MU = 1.0%

FAP 592 (IL 157) – NORTH LEG

2021 ADT = 11,100 (ACTUAL)
2024 ADT = 11,500 (ESTIMATED)
2044 ADT = 14,600 (ESTIMATED)
SU = 4.5% MU = 2.5%

FAP 592 (IL 157) – SOUTH LEG

2021 ADT = 5,750 (ACTUAL)
2024 ADT = 6,000 (ESTIMATED)
2044 ADT = 7,600 (ESTIMATED)
SU = 3.9% MU = 3.3%

FAP 586/586A/592 (IL 162/157) – BETWEEN STRUCTURES

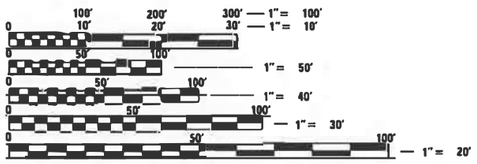
2021 ADT = 10,100 (ACTUAL)
2024 ADT = 10,500 (ESTIMATED)
2044 ADT = 13,300 (ESTIMATED)
SU = 3.7% MU = 2.6%

FOR INDEX OF SHEETS, SEE SHEET NO. 2

SN 060-0229
3 SPAN WIDE FLANGE STEEL BEAM
STRUCTURE SUPPORTED ON PILE
BENT ABUTMENT AND PIERS
STA 584+70.00 FAP 592 (IL ROUTE 157)
LAT: 38.7409
LONG: 90.0019

SN 060-0241
3 SPAN WIDE FLANGE STEEL BEAM
STRUCTURE SUPPORTED ON PILE
BENT ABUTMENT AND PIERS
STA 14+18.67 FAP 586 (IL ROUTE 162)
LAT: 38.7405
LONG: 90.0037

SN 060-7003
SINGLE SPAN PEDESTRIAN SUPERSTRUCTURE
SUPPORTED STUB ABUTMENTS
STA 11+32.47 SHARED USE PATH
LAT: 38.7409
LONG: 90.0020



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

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

PROJECT ENGINEER: CHERYL KEPLAR
PROJECT MANAGER: TONI MANN

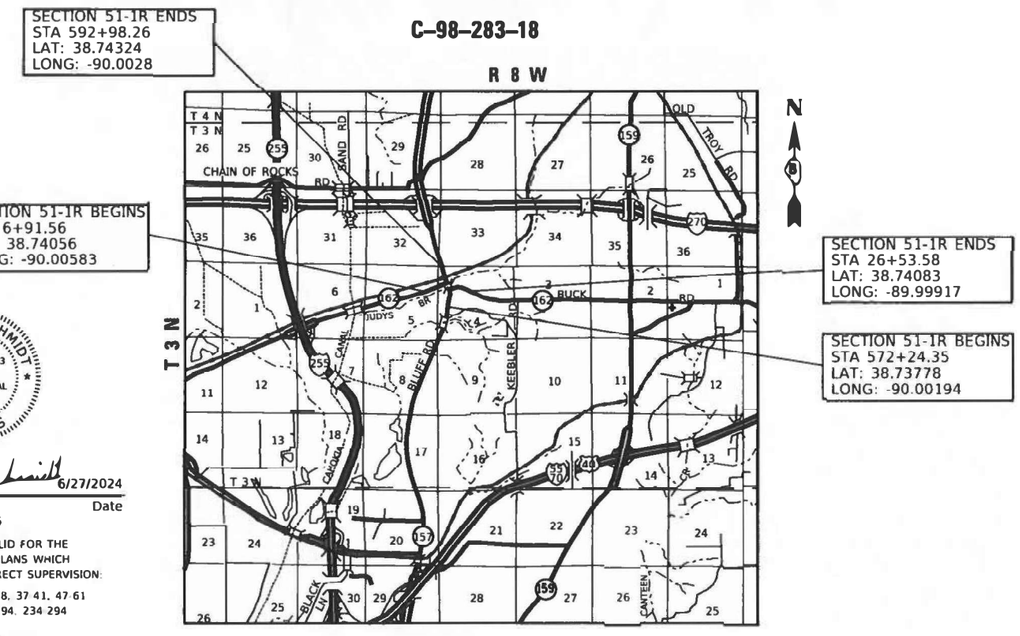
CONTRACT NO. 76A46

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAP ROUTE 586 / 586A / 592 (IL 162 / IL 157)
SECTION: 51–1 R
PROJECT: NHPP–STP–HSIP–6ATA(489)
INTERSECTION IMPROVEMENT WITH SIGNALS & BRIDGE REPLACEMENT
MADISON COUNTY

C–98–283–18



LOCATION MAP

VILLAGE OF GLEN CARBON
COLLINSVILLE TOWNSHIP

GRAPHIC SCALE IN MILES

GROSS LENGTH = 1,987.11 FT = 0.38 MILES
NET LENGTH = 1,987.11 FT = 0.38 MILES

D-98-009-04



LOCATION OF SECTION INDICATED THUS: –

BRIAN D. SCHMIDT
062-056773
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Brian D. Schmidt 6/27/2024
Date

License Expires 11/30/2025

THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:

SHEETS 1-18, 37-41, 47-61
SHEETS 72-94, 234-294

JORDAN E. PETTIBONE
062-066132
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

6/27/2024
Date

License Expires 11/30/2025

THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:

SHEETS 19-36, 42-46, 62-71
SHEETS 108-141, 233

PLANS PREPARED BY

FUHRMANN ENGINEERING
WWW.FUHRMANN-ENG.COM
1022 Eastport Plaza Drive
Collinsville, Illinois 62234
Phone: (618) 855-8000
Illinois Professional Design Firm
No. 184-003252
License Expires 4/30/2025

LOCHMUELLER GROUP
WWW.LOCHGROUP.COM
103 West Vandalia St, Suite 100
Edwardsville, Illinois 62025
Phone: (618) 667-1400
Illinois Professional Design Firm
No. 184-001670
License Expires 4/30/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug 16 2024
REGIONAL ENGINEER

June 27 2025
ENGINEER OF DESIGN AND ENVIRONMENT

June 27 2025
DIRECTOR OF HIGHWAYS, PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV - MS

INDEX OF SHEETS

1	COVER SHEET
2	HIGHWAY STANDARDS, INDEX OF SHEETS, AND GENERAL NOTES
3	MIXTURE DESIGNS, COMMITMENTS, AND PERTINENT INFORMATION
4-19	SUMMARY OF QUANTITIES
20-37	TYPICAL SECTIONS
38-47	SCHEDULES OF QUANTITIES
48-49	ALIGNMENT, TIES, & BENCHMARKS
50-62	PLAN AND PROFILE
63-72	REMOVAL PLANS
73-74	TRAFFIC CONTROL PLAN & DETOUR SIGNING
75	GRADING PLAN
76-83	EROSION AND SEDIMENT CONTROL DETAILS
84-91	DRAINAGE AND UTILITIES
92-95	STORM SEWER PROFILES
96-108	RIGHT-OF-WAY PLAN SHEETS
109-111	INTERSECTION DETAILS
112-115	ADA DETAILS
116-120	PAVEMENT ELEVATION DETAILS
121-129	PAVEMENT MARKING & SIGNING PLANS
130-142	TRAFFIC SIGNAL PLANS
143-183	STRUCTURE PLANS - 060-0229
184-214	STRUCTURE PLANS - 060-0241
215-233	STRUCTURE PLANS - 060-7003
234	SUPERELEVATION TABLES
235	DETAILS
236-257	CROSS SECTIONS - IL 162
258-275	CROSS SECTIONS - IL 157
276-292	CROSS SECTIONS - JUDY'S BRANCH
293-296	CROSS SECTIONS - SHARED-USE PATH

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-06	DIAGONAL CURB RAMPS FOR SIDEWALKS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
602301-04	INLET, TYPE A
602306-03	INLET, TYPE B
602401-07	PRECAST MANHOLE, TYPE A, 4' (1.22 M) DIAMETER
602416-09	PRECAST MANHOLE, TYPE A, 8' (2.44 M) DIAMETER
604001-05	FRAME AND LIDS, TYPE 1
604006-05	FRAME AND GRATE, TYPE 3
604011-05	FRAME AND GRATE, TYPE 3V
604036-03	GRATE, TYPE 8
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-04	OUTLETS FOR CONCRETE CURB AND GUTTER, TYPE B-6.24 (B-15.60)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-13	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-10	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

HIGHWAY STANDARDS, CONT.

420001-10	PAVEMENT JOINTS
602701-02	MANHOLE STEPS
606201-04	TYPE B GUTTER (INLET, OUTLET, AND ENTRANCE)

GENERAL NOTES

1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

UTILITY	ABOVE GROUND	BELOW GROUND
AMEREN	X	X
AT&T	X	X
CHARTER COMMUNICATIONS	X	X
CONSOLIDATED COMMUNICATIONS	X	X
EVERSTREAM GLC	X	X
VILLAGE OF GLEN CARBON		X
ILLINOIS AMERICAN WATER		X
VILLAGE OF MARYVILLE		X
SOUTHWESTERN ELECTRIC COOP	X	
WINDSTREAM KDL	X	X
ZAYO GROUP LLC	X	X

2. THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED FOR THIS PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE BITUMINOUS PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS

3. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

4. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

5. TEN (10) CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED THREE (3) WEEKS PRIOR TO PROJECT COMMENCEMENT AND REMAIN UP FOR THREE (3) WEEKS AFTER COMMENCEMENT. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ALONG I-55/70, I-270, I-255, IL ROUTE 162, AND IL ROUTE 157 OR AT THE DIRECTION OF THE ENGINEER.

6. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES.

7. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB -CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

8. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.

9. FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

AGGREGATE (SURFACE, BASE, & BACKFILL)	2.0 TON/CU YD
BITUMINOUS MATERIALS:	
PRIME COAT FOR BITUMINOUS CONCRETE:	
-ON PAVEMENT	0.0002 TON/SQ YD
-ON AGGREGATE	0.002 TON/SQ YD
-ON COLD MILLED SURFACE	0.0004 TON/SQ YD
-FOG COAT ON NEW BINDER	0.00012 TON/SQ YD
AGGREGATE (PRIME COAT)	
-ON EXISTING PAVEMENT	0.002 TON/SQ YD
-ON COLD MILLED SURFACE	0.002 TON/SQ YD
-FOG COAT ON NEW BINDER	0.001 TON/SQ YD
RIP RAP	1.5 TON/CU YD
CRACK ROUTING	0.4 LBS/FT

10. ALL REMOVED GUARDRAIL COMPONENTS ARE THE PROPERTY OF THE CONTRACTOR AND THE SALVAGE VALUE OF SAID COMPONENTS SHALL BE REFLECTED IN THE CONTRACTOR'S BID.

11. THE CONTRACTOR SHALL BE AWARE THAT THE FOLLOWING PROJECT(S) WITHIN OR ADJACENT TO THE LIMITS OF THIS CONTRACT SECTION MAY BE UNDER CONSTRUCTION AND CONSTRUCTION ACTIVITIES MAY NEED TO BE COORDINATED WITH THE FOLLOWING PROJECT(S) DURING CONSTRUCTION OF THIS PROJECT:
CONTRACT NO: 97708, FAP ROUTE 586 (IL ROUTE 162) / FAU ROUTE 9135 (KEEBLER ROAD), SECTION 16-00015-02-PV, MARYVILLE, MADISON COUNTY

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MODEL: $MODELNAME$
FILE NAME: $FILE1$

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, INDEX OF SHEETS, AND GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	2
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592

MIXTURE REQUIREMENTS

				TURN LANES <500 FEET		SHOULDER < 8 FEET WIDE	
MIXTURE USE	SURFACE	BINDER	INCIDENTAL	SURFACE	BINDER	SHOULDER (LOWER)	SHOULDER (SURFACE)
AC / PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 % @ Ndes=70	4.0 % @ Ndes=70	4.0 % @ Ndes=70	4.0 % @ Ndes=70	4.0 % @ Ndes=70	4.0 % @ Ndes=30	4.0 % @ Ndes=30
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0	IL 9.5	IL 9.5	IL 19.0	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "D"	MIXTURE "D"	MIXTURE "B"		MIXTURE "B"
QUALITY MANAGEMENT PROGRAM	QCP	QCP	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
MATERIAL TRANSFER DEVICE REQUIRED?	YES	YES	NO	NO	NO	NO	NO

COMMITMENTS

1. IN ACCORDANCE WITH PERMIT NUMBER DS2023056 FOR CONSTRUCTION IN FLOODWAYS OF RIVERS, LAKES, AND STREAMS, THE HYDRAULIC MODELING REQUIRES CHANNEL MODIFICATIONS TO BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE EMBANKMENT FOR RELOCATED IL 162. THE CONTRACTOR SHALL ASSUME ASSOCIATED RISK AND BE RESPONSIBLE FOR ANY SUPPLEMENTAL MODELING OR PERMITTING NECESSARY TO ALLOW FOR CONSTRUCTION SEQUENCING THAT DOES NOT COMPLY WITH MODELED OR PERMITTED CONDITIONS.

2. TREES 3" OR GREATER IN DIAMETER OR BREAST HEIGHT WILL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

3. THE VILLAGE OF GLEN CARBON WILL REMOVE THE SIGN LOCATED AT STA. 580+95 (IL ROUTE 157) PRIOR TO THE START OF CONSTRUCTION. IF NOT, PLEASE CONTACT TAMMY HANFELDER, STREET SUPERINTENDENT AT P.O. BOX 757, GLEN CARBON, IL 62034 OR (618) 288-2662.

PERTINENT INFORMATION

1. THE CONTRACTOR WILL CONDUCT ALL CONSTRUCTION ACIVITIES IN SUCH A MANNER AS TO AVOID IMPACTING AMEREN'S MAINS WITH THEIR CONSTRUCTION. ANY DAMAGES INCURRED TO AMEREN'S MAINS WILL BE PAID FOR AT THE CONTRACTOR'S EXPENSE AND THERE WILL BE NO ADDITIONAL COMPENSATION FROM THE DEPARTMENT. PLEASE SEE PLAN SHEET 52 OF TOTAL SHEETS 296 FOR THE AS-BUILT PLANS REFLECTING THE AMEREN INSTALLATION.

2. THE EXISTING USGS GAGE STATION LOCATED AT JUDY'S BRANCH IS TO BE REMOVED BY OTHERS PRIOR TO THE COMMENCEMENT OF THIS PROJECT. IF THE STATION HAS NOT BEEN REMOVED, PLEASE CONTACT TRENT LEGG AT (618) 237-2939 OR TALEGG@USGS.GOV.

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE: 80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN STRUCTURE 0010	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN STRUCTURE 0008	80 % FEDERAL 20% STATE NHPP FAP 586A (IL 162) URBAN ROADWAY 0004	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN SHARED-USE PATH 0021	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN STRUCTURE 0008
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	21	21						
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	191	147				44		
20100500	TREE REMOVAL, ACRES	ACRE	0.43	0.27		0.16				
20200100	EARTH EXCAVATION	CU YD	23025	16340		1070		5600	15	
20300100	CHANNEL EXCAVATION	CU YD	11270			11270				
20400800	FURNISHED EXCAVATION	CU YD	2000			2000				
25000210	SEEDING, CLASS 2A	ACRE	5.75	2.25		2.75		0.75		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	523	207		255		61		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	523	207		255		61		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	523	207		255		61		
25100115	MULCH, METHOD 2	ACRE	5.75	2.25		2.75		0.75		
28000305	TEMPORARY DITCH CHECKS	FOOT	1050	599		109		342		
28000400	PERIMETER EROSION BARRIER	FOOT	1942	780		1007		155		
28000500	INLET AND PIPE PROTECTION	EACH	9	7				2		

* SPECIALTY ITEM

REV - MS

MODEL:
FILE NAME: G:\PE\Jobs\ 21200\0-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\CADD\CADD Sheets\0001-019-0876A46-sht-SOQ.dgn

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USER NAME = untitled	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 9/3/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 1 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	4
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE: 80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN STRUCTURE 0010	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN STRUCTURE 0008	80 % FEDERAL 20% STATE NHPP FAP 586A (IL 162) URBAN ROADWAY 0004	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN SHARED-USE PATH 0021	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN STRUCTURE 0008
28000510	INLET FILTERS	EACH	24	16		1		7		
28100111	STONE RIPRAP, CLASS A6	SQ YD	5635		1635	1598	1223	647		532
28200200	FILTER FABRIC	SQ YD	5719		1688	1598	1223	647		563
30300124	AGGREGATE SUBGRADE IMPROVEMENT 24"	SQ YD	22545	11014		5902		5629		
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	3240	1513		799		928		
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	726						726	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	270.80	172.00		43.00		55.80		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	70547	34464		36083				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	21456	10425		5537		5494		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	32844	17826		14352		666		
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	17168	8327		4386		4455		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	226	127		43		56		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	406	151		255				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	278	278						

* SPECIALTY ITEM

REV - MS

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE: 80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN STRUCTURE 0010	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN STRUCTURE 0008	80 % FEDERAL 20% STATE NHPP FAP 586A (IL 162) URBAN ROADWAY 0004	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN SHARED-USE PATH 0021	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN STRUCTURE 0008
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	5934						5934	
42400800	DETECTABLE WARNINGS	SQ FT	190			60		24	106	
44000100	PAVEMENT REMOVAL	SQ YD	13496	7261		4083		2152		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	291	268				23		
44000400	GUTTER REMOVAL	FOOT	530	447		83				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	117	117						
44003100	MEDIAN REMOVAL	SQ FT	1253			1253				
44004250	PAVED SHOULDER REMOVAL	SQ YD	1035	764				271		
48101550	AGGREGATE SHOULDERS, TYPE B 7"	SQ YD	1462	582		609		271		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	3240	1513		799		928		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1					
50200100	STRUCTURE EXCAVATION	CU YD	888		405		441			42
50200300	COFFERDAM EXCAVATION	CU YD	1764		844		920			
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1					

* SPECIALTY ITEM

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50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1					
50201123	COFFERDAM (TYPE 2) (LOCATION - 3)	EACH	1				1			
50201124	COFFERDAM (TYPE 2) (LOCATION - 4)	EACH	1				1			
50300225	CONCRETE STRUCTURES	CU YD	1004.7		533.5		431.6			39.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	744.0		373.7		326.9			43.4
50300260	BRIDGE DECK GROOVING	SQ YD	2914		1572		1308			34
50300265	SEAL COAT CONCRETE	CU YD	186.2				186.2			
50300280	CONCRETE ENCASEMENT	CU YD	8.6							8.6
50300300	PROTECTIVE COAT	SQ YD	3594		1828		1449			317
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	439		238		166			35
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		0.54		0.46			
50500505	STUD SHEAR CONNECTORS	EACH	16554		8691		7863			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	485380		263610		203520			18250
50800515	BAR SPLICERS	EACH	11		11					

* SPECIALTY ITEM

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50901750	PARAPET RAILING	FOOT	13.3							13.3
51202100	FURNISHING STEEL PILES HP14X117	FOOT	11750		5397		5418			935
51202305	DRIVING PILES	FOOT	11750		5397		5418			935
51204100	TEST PILE STEEL HP14X117	EACH	3		2		1			
51500100	NAME PLATES	EACH	3		1		1			1
52100510	ANCHOR BOLTS, 3/4"	EACH	32				32			
52100520	ANCHOR BOLTS, 1"	EACH	116		84		32			
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	9	8		1				
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2						
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	2		2				
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2					2		
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	278	278						
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	111	111						
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	34	34						

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550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	496	470		26				
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	337	258				79		
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	134			134				
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	126					126		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	619		332		196			91
58700300	CONCRETE SEALER	SQ FT	127							127
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	301		153		104			44
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	488		202		191			95
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	1		1				
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1					1		
60219570	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	6	4				2		
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1					1		
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	2	1		1				
60235705	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	4	3		1				

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PLOT DATE = 9/3/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 6 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	9
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

SUMMARY OF QUANTITIES

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	60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	2	2						
	60240222	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH	10	6				4		
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	3					3		
	60602800	CONCRETE GUTTER, TYPE B	FOOT	662					662		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	144	144						
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	210	210						
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1645	1550		95				
	60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	92			62		30		
	60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	166			109		57		
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	939	39		555		345		
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	800.0	125.0		437.5		237.5		
*	63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5						
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2						
*	63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1			1				

*SPECIALTY ITEM

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DEPARTMENT OF TRANSPORTATION

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*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	7	2		4		1		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	10	4		3		3		
	63200310	GUARDRAIL REMOVAL	FOOT	1880	1880						
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	2221	1004		1055		162		
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	4		3		1		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1461	485				976		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0.56				0.44		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.56				0.44		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.56				0.44		
*	66901005	ENGINEERED BARRIER	SQ YD	889	889						
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	76	20				56		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24	12		6		6		
	67100100	MOBILIZATION	L SUM	1	0.24	0.16	0.12	0.16	0.12	0.10	0.10
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.50		0.25		0.25		

*SPECIALTY ITEM

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	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.50		0.25		0.25		
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.50		0.25		0.25		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	420	210		105		105		
*	72000100	SIGN PANEL - TYPE 1	SQ FT	325.51	183.62		59.32		74.07	8.50	
*	72000200	SIGN PANEL - TYPE 2	SQ FT	108	36		36		36		
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	21	11		6		4		
*	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	13	6		3		4		
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	30	30						
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	1				1		
*	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	3	2		1				
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	13	6		3		3	1	
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	543.01	309.51		87.75		116.75	29.00	
*	73000100	WOOD SIGN SUPPORT	FOOT	276.00	101.50		84.75		89.75		
*	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1	1						

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*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	483.6	296.4		93.6		93.6		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	21272	10619		5448		5205		
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	584	305		207		72		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1685	852		471		362		
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	192	108		42		42		
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	184						184	
*	78004600	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS	SQ FT	62.4	62.4						
*	78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	2949	1561		1348			40	
*	78004640	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 8"	FOOT	96	96						
*	78004660	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 12"	FOOT	345	195		150				
*	78004720	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 24"	FOOT	30	30						
*	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	62.4	62.4						
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	2949	1561		1348			40	
*	78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	96	96						

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*	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	345	195		150				
*	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	30	30						
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	205	107		47		51		
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	40	16		16		8		
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	16	8		8				
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	16	8		8				
*	78200020	CURB REFLECTORS	EACH	50	34		16				
*	80500100	SERVICE INSTALLATION, TYPE A	EACH	1			1				
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	194	194						
*	81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	97	97						
*	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	988	367		621				
*	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	640	13		627				
*	81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	116			116				
*	81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	48			48				

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*	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	135			135				
*	81400100	HANDHOLE	EACH	15	3		12				
*	81400300	DOUBLE HANDHOLE	EACH	1			1				
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1						
*	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1			1				
*	87100160	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	1130			1130				
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1375			1375				
*	87301235	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	FOOT	1410			1410				
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5207	970		4237				
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2028	967		1061				
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1867	1867						
*	87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	34			34				
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1400	90		1310				
*	87500800	TRAFFIC SIGNAL POST, 12 FT.	EACH	3			3				

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	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 9/3/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 12 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	15
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE: 80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN STRUCTURE 0010	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN STRUCTURE 0008	80 % FEDERAL 20% STATE NHPP FAP 586A (IL 162) URBAN ROADWAY 0004	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN SHARED-USE PATH 0021	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN STRUCTURE 0008
*	87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1	1						
*	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1			1				
*	87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1			1				
*	87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1			1				
*	87703080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1			1				
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9			9				
*	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3			3				
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43	15		28				
*	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46			46				
*	87900200	DRILL EXISTING HANDHOLE	EACH	1	1						
*	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	1		6				
*	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	2		10				
*	88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	6	4		2				
*	88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6	4		2				

*SPECIALTY ITEM

MODEL:
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SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE: 80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN STRUCTURE 0010	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN STRUCTURE 0008	80 % FEDERAL 20% STATE NHPP FAP 586A (IL 162) URBAN ROADWAY 0004	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN SHARED-USE PATH 0021	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN STRUCTURE 0008
*	88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4			4				
*	88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18	6		12				
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	1	1						
*	88600100	DETECTOR LOOP, TYPE I	FOOT	688	688						
*	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2	2						
*	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1						
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3338	3338						
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1						
	89502380	REMOVE EXISTING HANDHOLE	EACH	3	3						
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	1						
	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	1920.7							1920.7
	X0350805	FOLD DOWN BOLLARDS	EACH	1						1	
	X1700114	CONCRETE PAD REMOVAL	SQ FT	2660	1056				1604		
	X5220102	RETAINING WALL REMOVAL	FOOT	277	70		207				

* SPECIALTY ITEM

MODEL:
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SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE: 80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE NHPP FAP 592 (IL 157) URBAN STRUCTURE 0010	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN ROADWAY 0004	80% FEDERAL 20 % STATE STP FAP 586 (IL 162) URBAN STRUCTURE 0008	80 % FEDERAL 20% STATE NHPP FAP 586A (IL 162) URBAN ROADWAY 0004	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN SHARED-USE PATH 0021	90% FEDERAL 10 % STATE HSIP SHARED-USE PATH URBAN STRUCTURE 0008
	X6660445	RIGHT OF WAY AND PROPERTY CORNERS	EACH	40	19		12		9		
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.50		0.25		0.25		
*	X7800200	PAINT PAVEMENT MARKING CURB	FOOT	293	194		99				
*	X8710103	ETHERNET SWITCH	EACH	1			1				
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4			4				
	Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	45	45						
	Z0004002	BOLLARDS	EACH	2						2	
	Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SQ YD	924	482				442		
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	129	129						
	Z0007601	BUILDING REMOVAL NO. 1	L SUM	1			1				
	Z0007602	BUILDING REMOVAL NO. 2	L SUM	1			1				
	Z0007603	BUILDING REMOVAL NO. 3	L SUM	1			1				
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.24	0.16	0.12	0.16	0.12	0.10	0.10

*SPECIALTY ITEM

REV - MS

MODEL:
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SUMMARY OF QUANTITIES

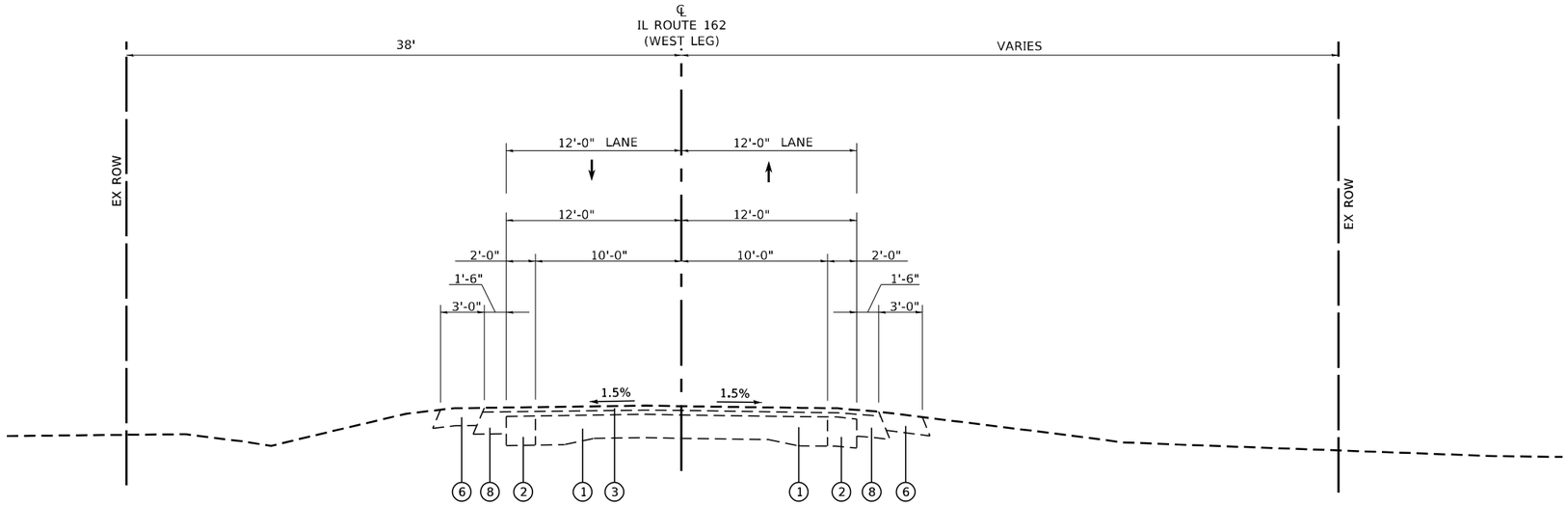
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				80% FEDERAL 20 % STATE NHPP		80% FEDERAL 20 % STATE STP		80 % FEDERAL 20% STATE NHPP	90% FEDERAL 10 % STATE HSIP	
				FAP 592 (IL 157)		FAP 586 (IL 162)		FAP 586A (IL 162)	SHARED-USE PATH	
				URBAN		URBAN		URBAN	URBAN	
CODE NO	ITEM	UNIT	TOTAL	ROADWAY	STRUCTURE	ROADWAY	STRUCTURE	ROADWAY	SHARED-USE PATH	STRUCTURE
				0004	0010	0004	0008	0004	0021	0008
X7200203	DETOUR SIGNING	L SUM	1	0.50		0.25		0.25		
X6640104	FENCE REMOVAL	FOOT	159			159				
X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	1			1				
40600405	MATERIAL TRANSFER DEVICE	TON	10576	5130		2702		2744		
Z0056650	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15"	FOOT	218					218		
Z0056654	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 24"	FOOT	107					107		
Z0056657	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 36"	FOOT	42					42		
Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	30					30		
Z0056682	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 42"	FOOT	50					50		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1						
X6640632	WOOD RAIL	FOOT	32							32
Ø Z0076600	TRAINEES	HOUR	3000	3000						
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	3000	3000						

* SPECIALTY ITEM

Ø 0042

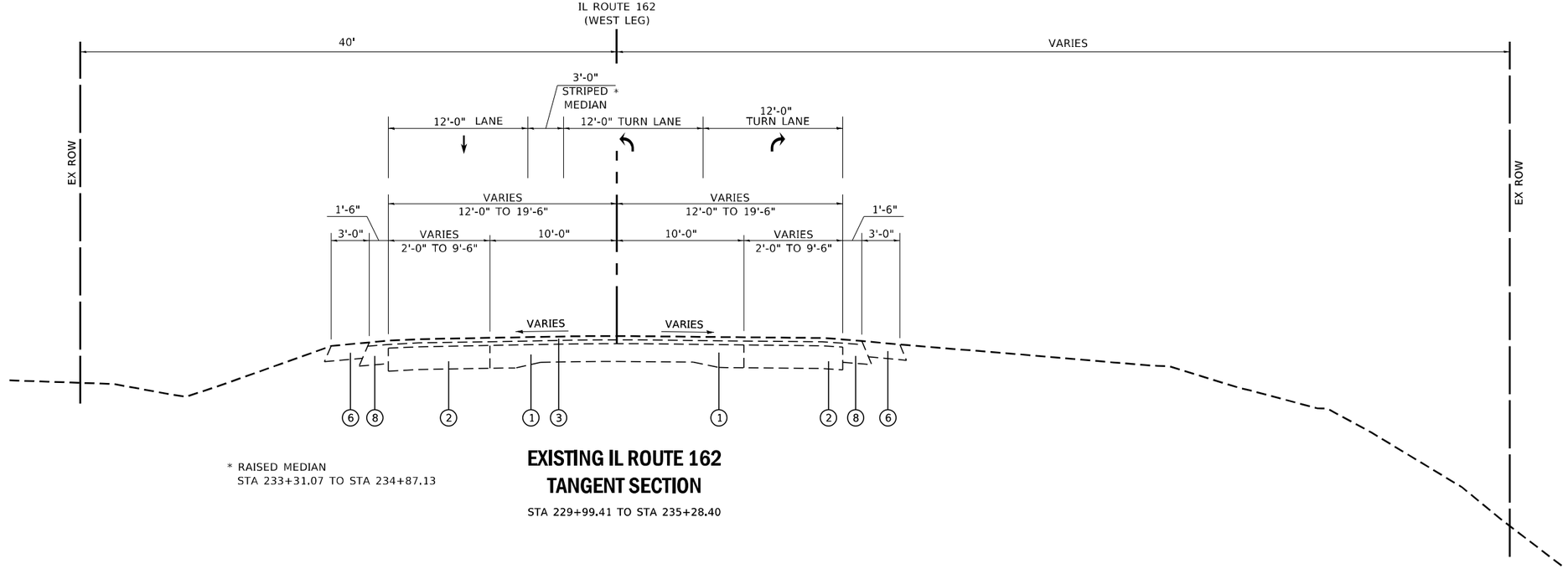
REV - MS

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EXISTING IL ROUTE 162
TANGENT SECTION

STA 223+74.18 TO STA 229+99.41



* RAISED MEDIAN
STA 233+31.07 TO STA 234+87.13

EXISTING IL ROUTE 162
TANGENT SECTION

STA 229+99.41 TO STA 235+28.40

LEGEND

1. EXISTING 9"-7"-9" PAVEMENT
2. EXISTING BASE COURSE WIDENING
3. EXISTING RESURFACING VARIABLE DEPTH
4. EXISTING BITUMINOUS SHOULDER
5. EXISTING CONCRETE MEDIAN
6. EXISTING AGGREGATE SHOULDER
7. EXISTING CONCRETE GUTTER
8. EXISTING LEVELING BINDER

FILE NAME: \\lochlcs\root\Production\Files\2020\20-0018\CAD\CADD Sheets\0876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
3928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.8400

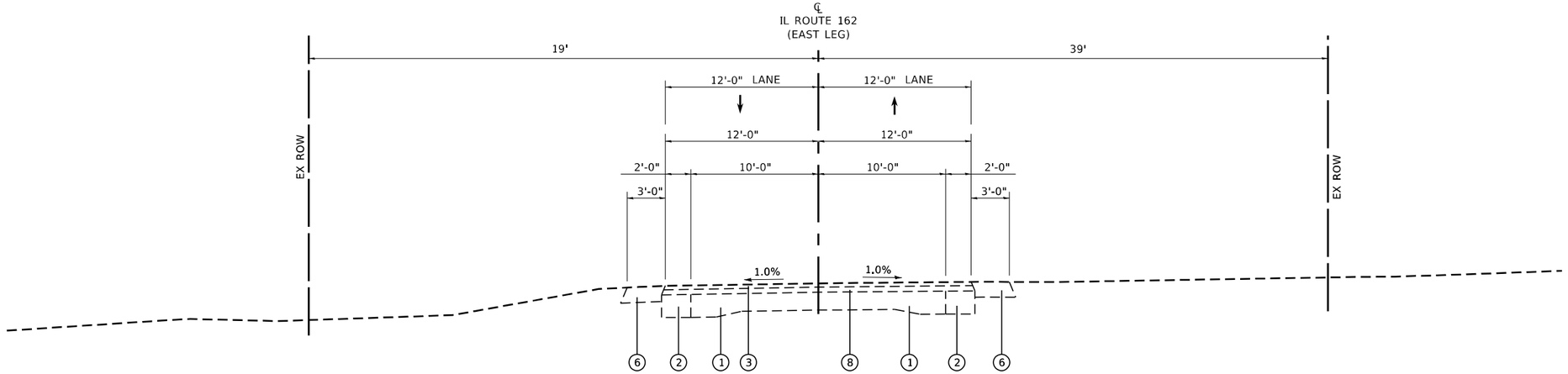
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL ROUTE 162

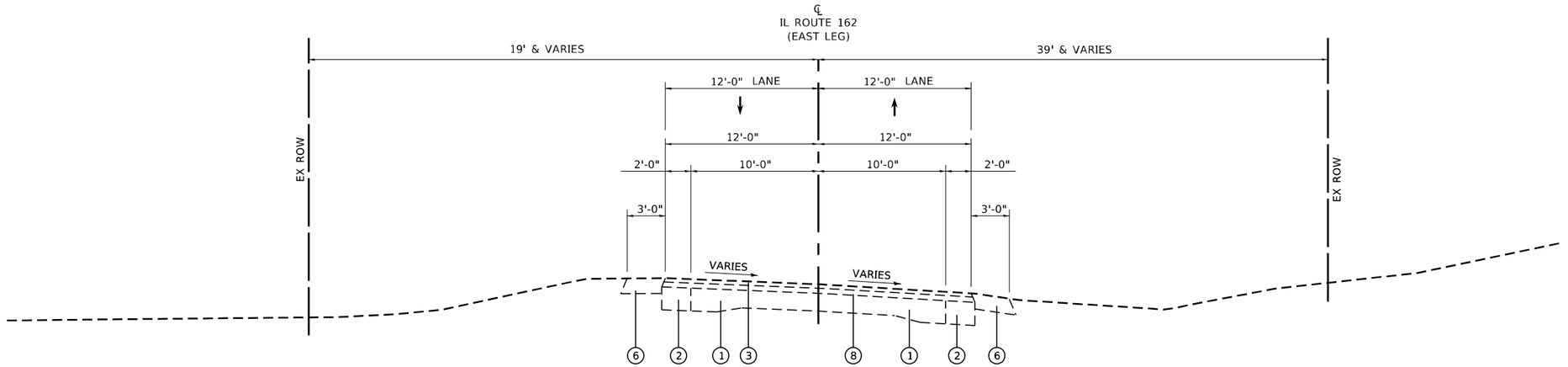
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	20
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



EXISTING IL ROUTE 162
TANGENT SECTION

STA 238+53.15 TO STA 242+00.00



EXISTING IL ROUTE 162
SUPERELEVATED SECTION

STA 242+00.00 TO STA 246+27.15

LEGEND

1. EXISTING 9"-7"-9" PAVEMENT
2. EXISTING BASE COURSE WIDENING
3. EXISTING RESURFACING VARIABLE DEPTH
4. EXISTING BITUMINOUS SHOULDER
5. EXISTING CONCRETE MEDIAN
6. EXISTING AGGREGATE SHOULDER
7. EXISTING CONCRETE GUTTER
8. EXISTING LEVELING BINDER

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LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

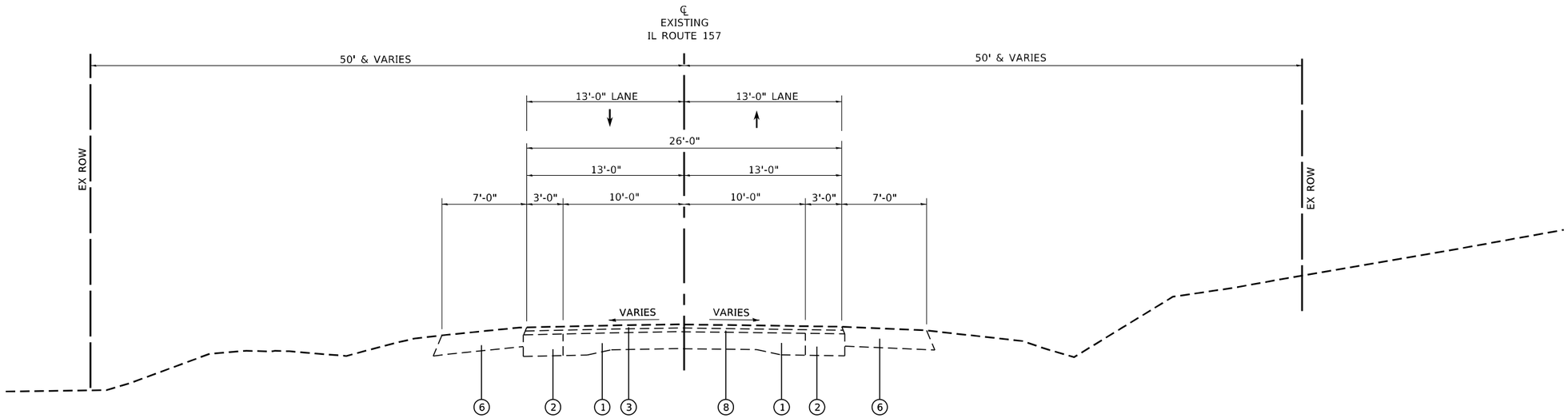
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL ROUTE 162

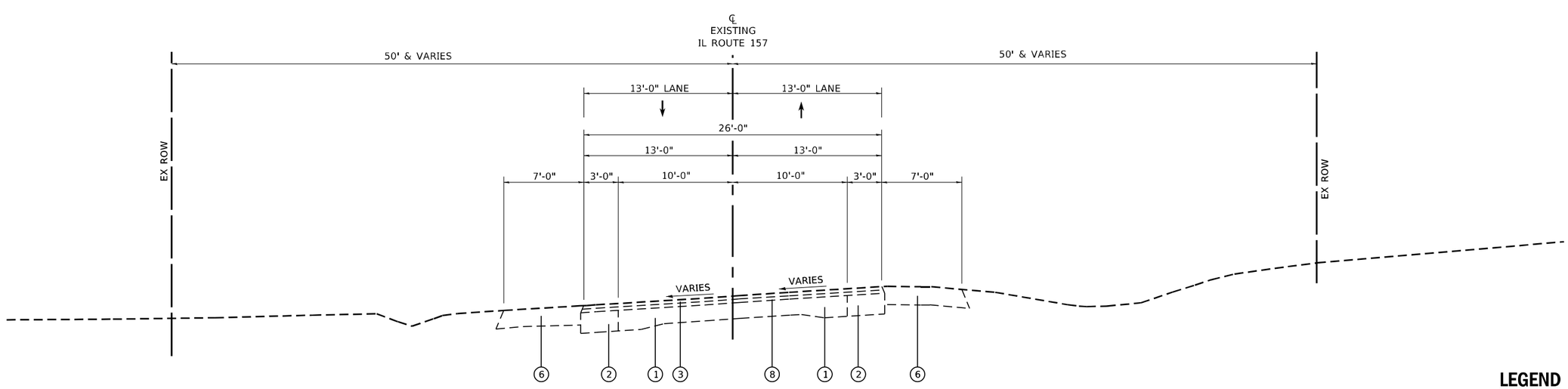
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	21
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



EXISTING IL ROUTE 157
TANGENT SECTION

STA 572+33.26 TO STA 577+50.00



EXISTING IL ROUTE 157
SUPERELEVATED SECTION

STA 577+50.00 TO STA 579+85.81

LEGEND

1. EXISTING 9"-7"-9" PAVEMENT
2. EXISTING BASE COURSE WIDENING
3. EXISTING RESURFACING VARIABLE DEPTH
4. EXISTING BITUMINOUS SHOULDER
5. EXISTING CONCRETE MEDIAN
6. EXISTING AGGREGATE SHOULDER
7. EXISTING CONCRETE GUTTER
8. EXISTING LEVELING BINDER

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LOCHMUELLER GROUP
3528 Fifth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

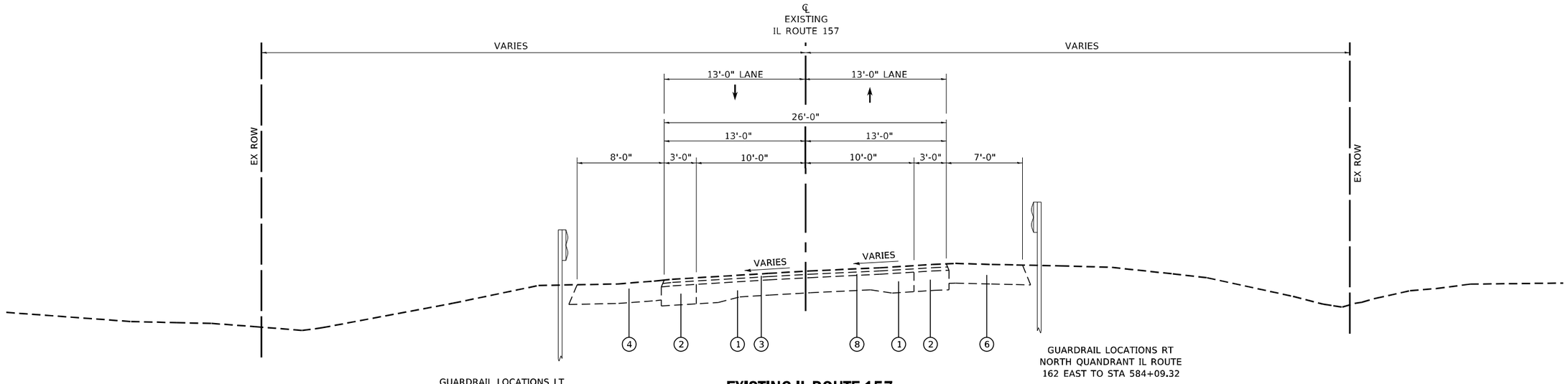
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 3 OF 18 SHEETS | EX Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

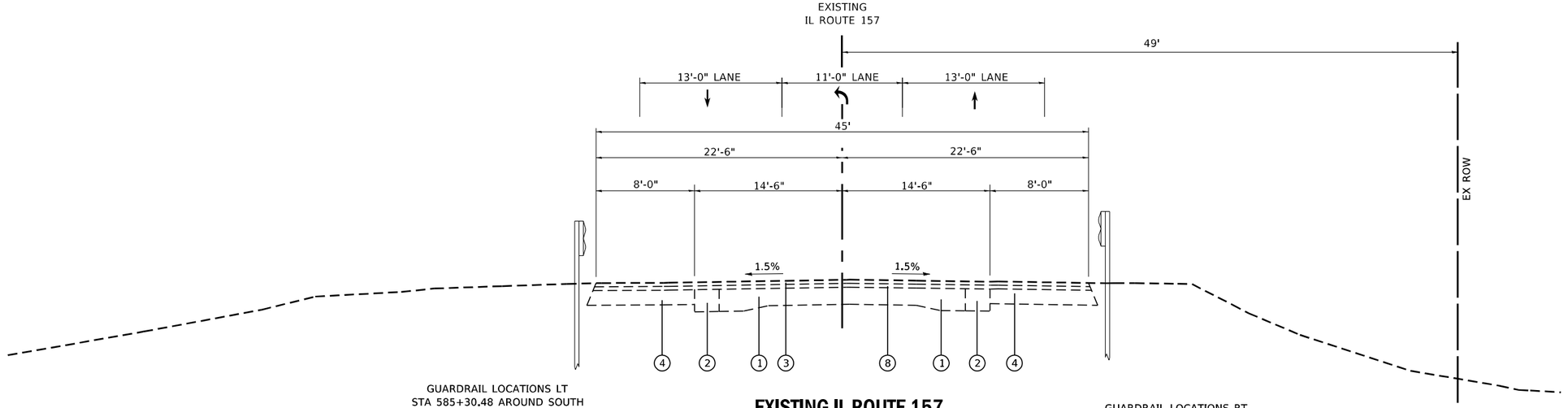


GUARDRAIL LOCATIONS LT
STA 582+18.96 TO STA 584+09.32

GUARDRAIL LOCATIONS RT
NORTH QUANDRANT IL ROUTE
162 EAST TO STA 584+09.32

EXISTING IL ROUTE 157
SUPERELEVATED SECTION

STA 579+85.81 TO STA 584+09.32



GUARDRAIL LOCATIONS LT
STA 585+30.48 AROUND SOUTH
QUANDRANT OF IL ROUTE 162 WEST

EXISTING IL ROUTE 157
TANGENT SECTION

STA 585+30.48 TO STA 586+54.00

BRIDGE OMISSION
STA 584+09.32 TO STA 585+30.48

GUARDRAIL LOCATIONS RT
STA 585+30.48 TO STA 586+30.05

LEGEND

1. EXISTING 9"-7"-9" PAVEMENT
2. EXISTING BASE COURSE WIDENING
3. EXISTING RESURFACING VARIABLE DEPTH
4. EXISTING BITUMINOUS SHOULDER
5. EXISTING CONCRETE MEDIAN
6. EXISTING AGGREGATE SHOULDER
7. EXISTING CONCRETE GUTTER
8. EXISTING LEVELING BINDER

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LOCHMUELLER GROUP
1928 S.R. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

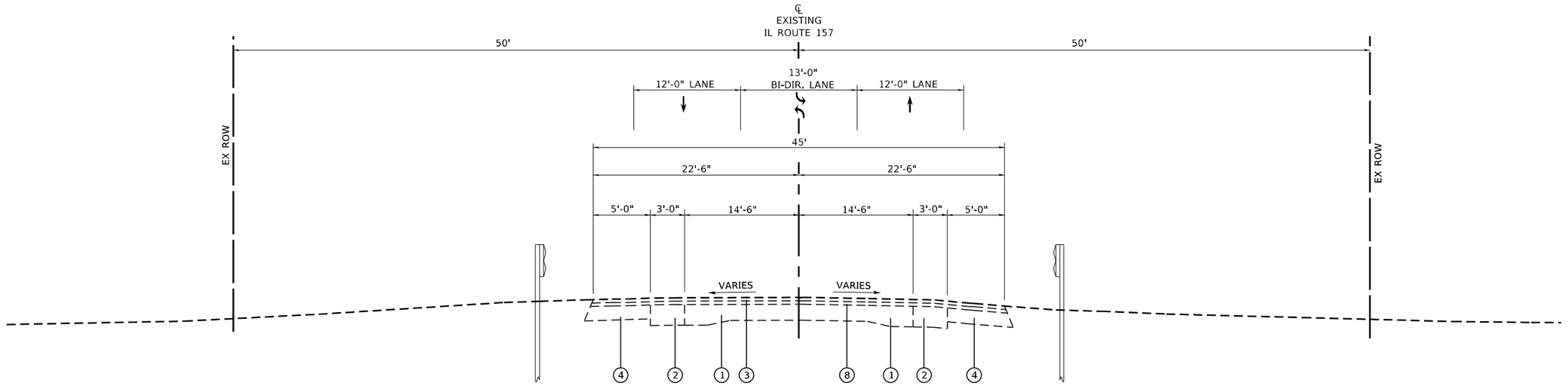
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 4 OF 18 SHEETS | EX Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	23
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

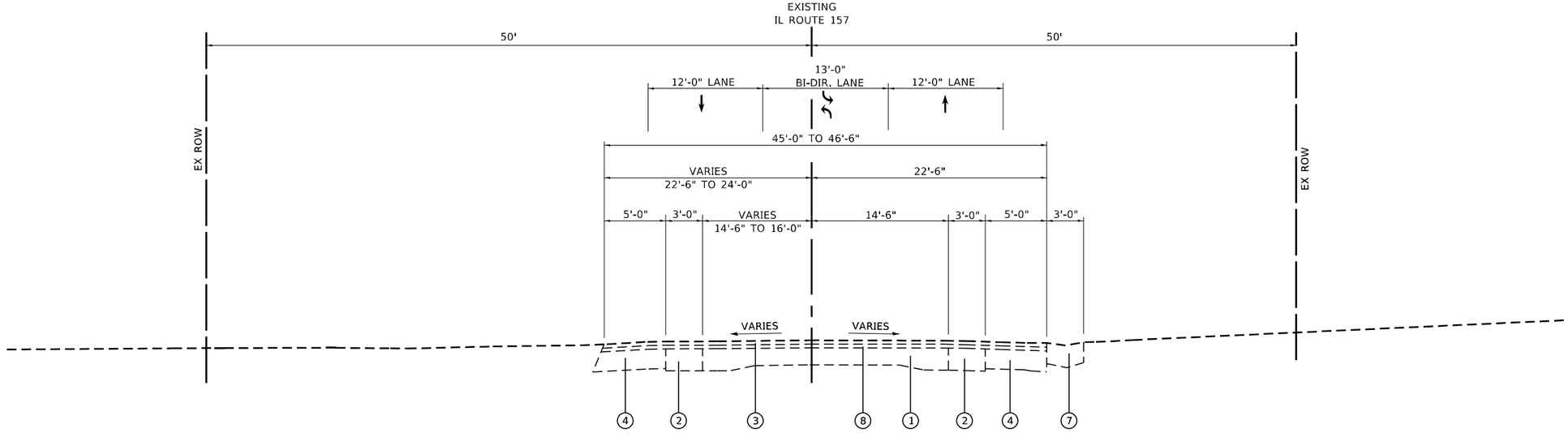


GUARDRAIL LOCATIONS LT
STA 588+54.98 TO STA 589+75.25

GUARDRAIL LOCATIONS RT
STA 587+85.45 TO STA 589+68.22

EXISTING IL ROUTE 157
TANGENT SECTION

STA 586+54.00 TO STA 589+62.65



EXISTING IL ROUTE 157
TANGENT SECTION

STA 589+62.65 TO STA 592+98.27

LEGEND

1. EXISTING 9"-7"-9" PAVEMENT
2. EXISTING BASE COURSE WIDENING
3. EXISTING RESURFACING VARIABLE DEPTH
4. EXISTING BITUMINOUS SHOULDER
5. EXISTING CONCRETE MEDIAN
6. EXISTING AGGREGATE SHOULDER
7. EXISTING CONCRETE GUTTER
8. EXISTING LEVELING BINDER

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LOCHMUELLER GROUP
1928 S.N. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

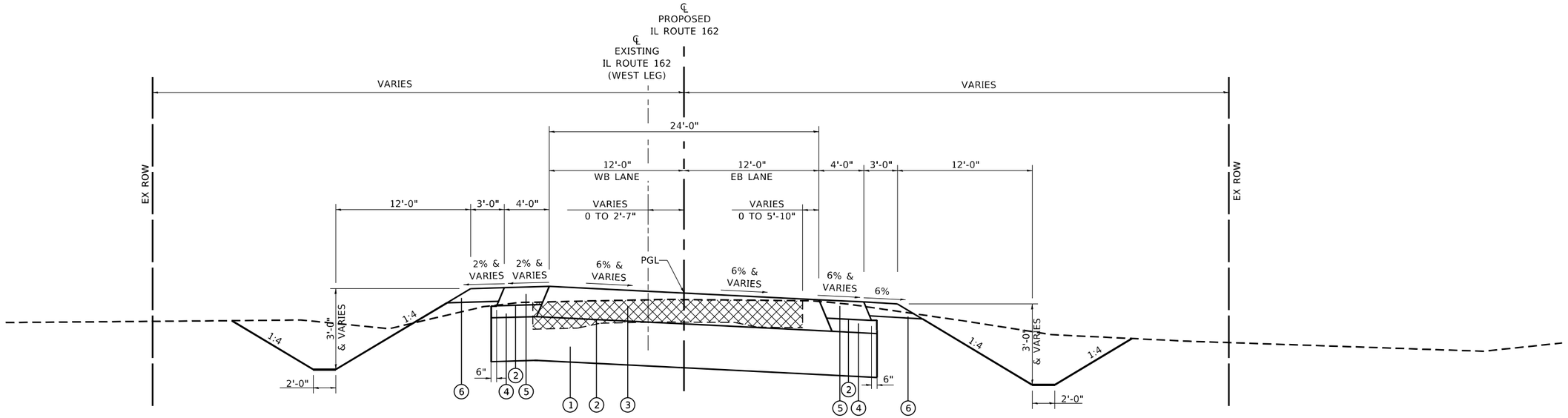
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PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 5 OF 18 SHEETS | EX Typ Section 5 Scale

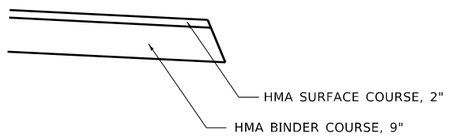
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	24
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



PROPOSED IL ROUTE 162
SUPERELEVATION SECTION

STA 6+91.56 TO STA 9+25.00

TRANSITION 1.5% SLOPE TO 6.0% SLOPE
STA 7+42.06 TO STA 9+34.56



FULL DEPTH PAVEMENT DETAIL

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\D876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

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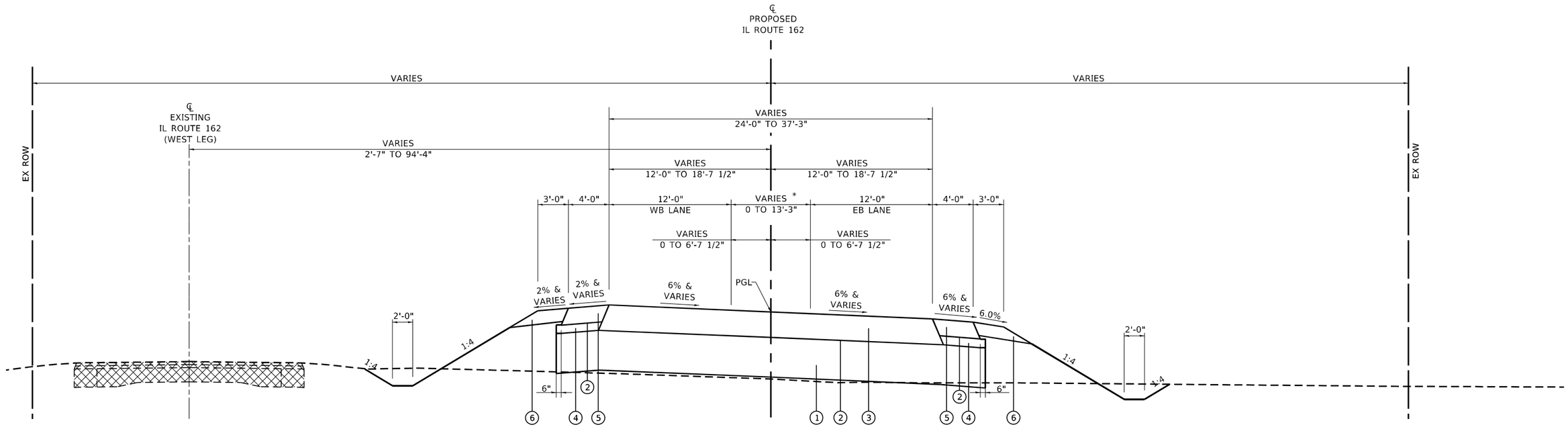
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 162

SCALE: 1"=5' | SHEET 6 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	25
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



* BEGIN PAINTED MEDIAN STA 9+80.59

PROPOSED IL ROUTE 162
SUPERELEVATION SECTION

FULL SUPERELEVATION
STA 9+34.56 TO STA 10+56.48

TRANSITION 6.0% SLOPE TO 1.5% SLOPE
STA 10+56.48 TO STA 13+03.98

STA 9+25.00 TO STA 13+11.71

BRIDGE OMISSION
STA 13+42.83 TO STA 14+94.51

BRIDGE APPROACH SLAB
STA 13+12.83 TO STA 13+42.83
STA 14+94.51 TO STA 15+24.51

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\20-0018\CADD\CADD Sheets\076A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S-A Bradley Pk. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 07	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/1/2024	DATE	- 10/8/2021	REVISED	-

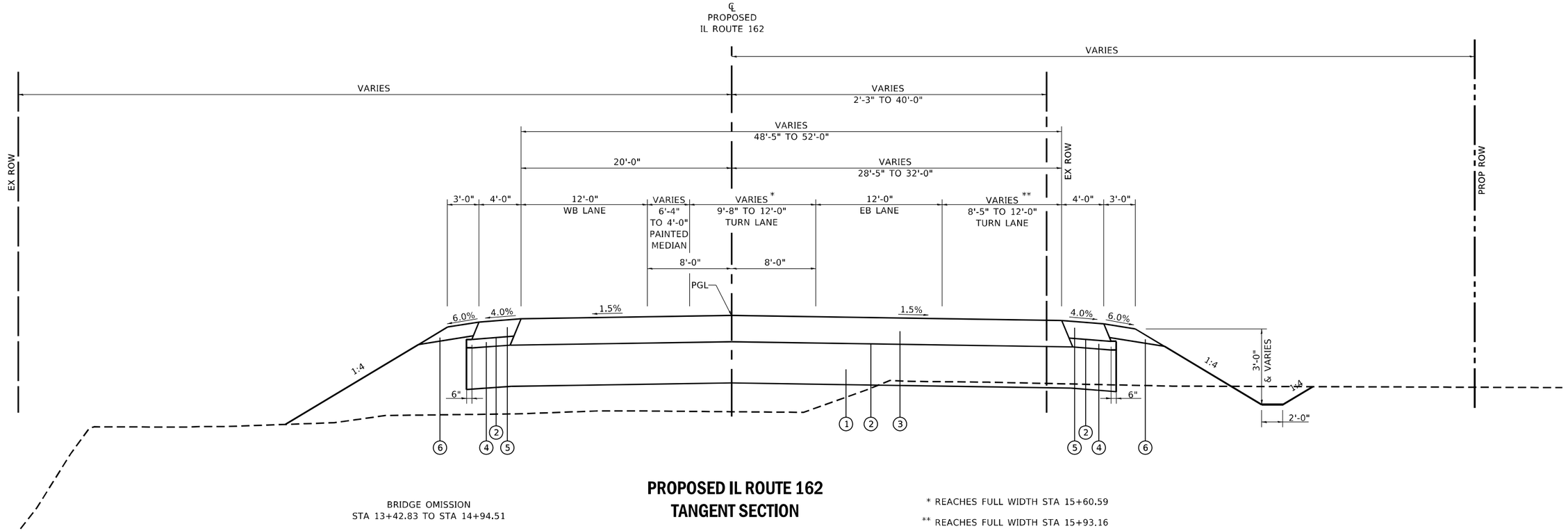
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 162

SCALE: 1"=5' | SHEET 7 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	26
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



BRIDGE OMISSION
STA 13+42.83 TO STA 14+94.51

BRIDGE APPROACH SLAB
STA 13+12.83 TO STA 13+42.83
STA 14+94.51 TO STA 15+24.51

OMISSION
STA 18+51.50 TO STA 19+12.87

PROPOSED IL ROUTE 162
TANGENT SECTION

STA 15+25.63 TO STA 18+51.50

* REACHES FULL WIDTH STA 15+60.59

** REACHES FULL WIDTH STA 15+93.16

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\420-0018\CADD\CADD Sheets\0876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
3928 S-R Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 08	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/1/2024	DATE	- 10/8/2021	REVISED	-

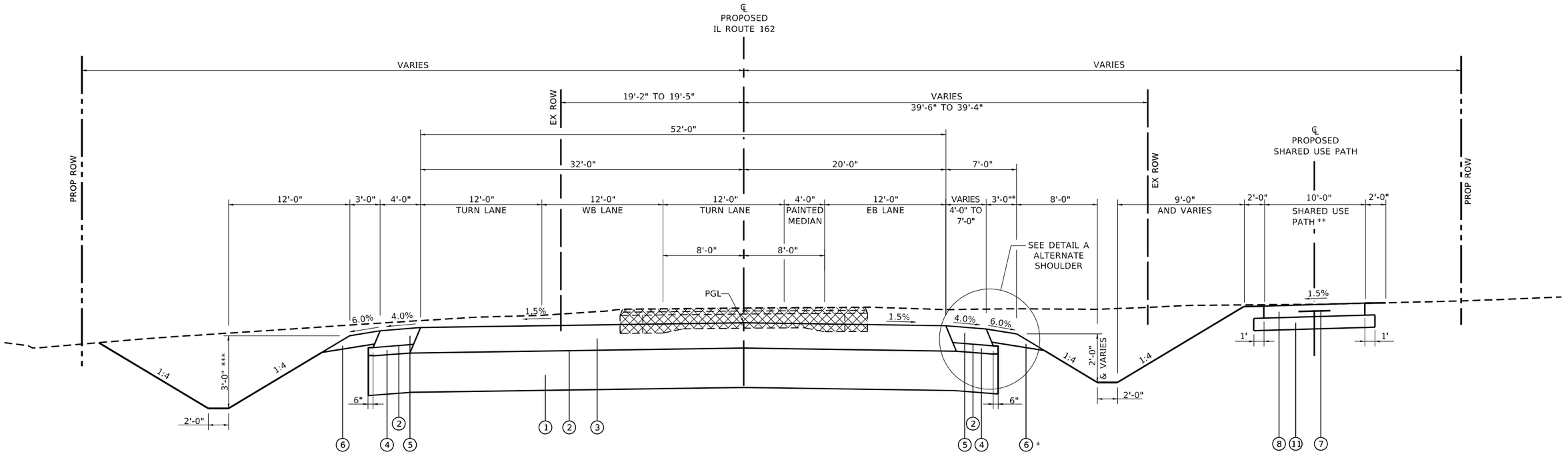
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 162

SCALE: 1"=5' | SHEET 8 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	27
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

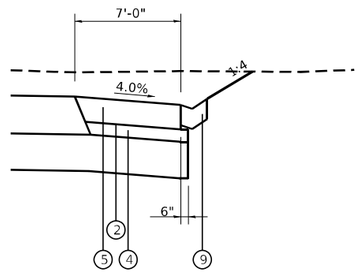
*586/592



* AGGREGATE SHOULDER ENDS STA 19+61.82
** SHARED USE PATH ENDS STA 21+36.29
*** SEE PROFILES FOR SPECIAL DITCH LOCATIONS

PROPOSED IL ROUTE 162
TANGENT SECTION

STA 19+12.87 TO STA 21+94.52



DETAIL A

STA 20+98.75 TO STA 21+94.52

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\420-0018\CADD\CADD Sheets\0876446-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

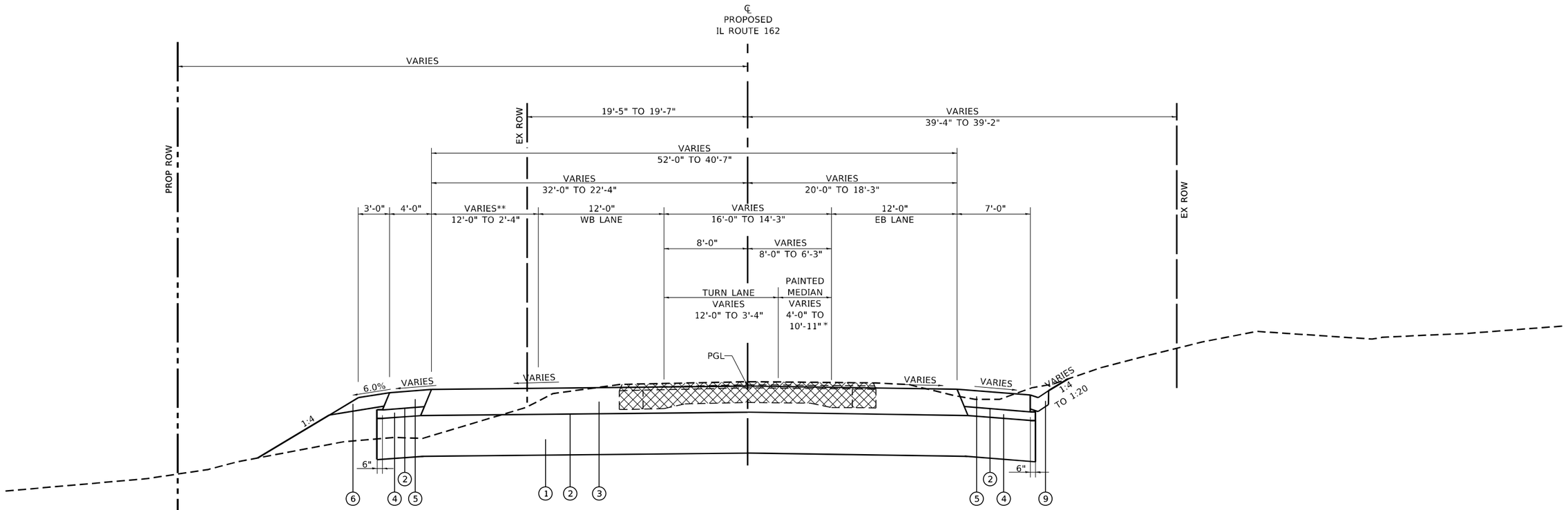
USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 09	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/7/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 162

SCALE: 1"=5' | SHEET 9 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	51-1R	MADISON	296	28
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



PROPOSED IL ROUTE 162
SUPERELEVATION SECTION

STA 21+94.52 TO STA 23+50.00

* PAINTED MEDIAN AT FULL WIDTH
STA 23+74.52

** TURN LANE ENDS
STA 24+34.52

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
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9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\x420-0018\CAD\CADD Sheets\D876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S.R. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

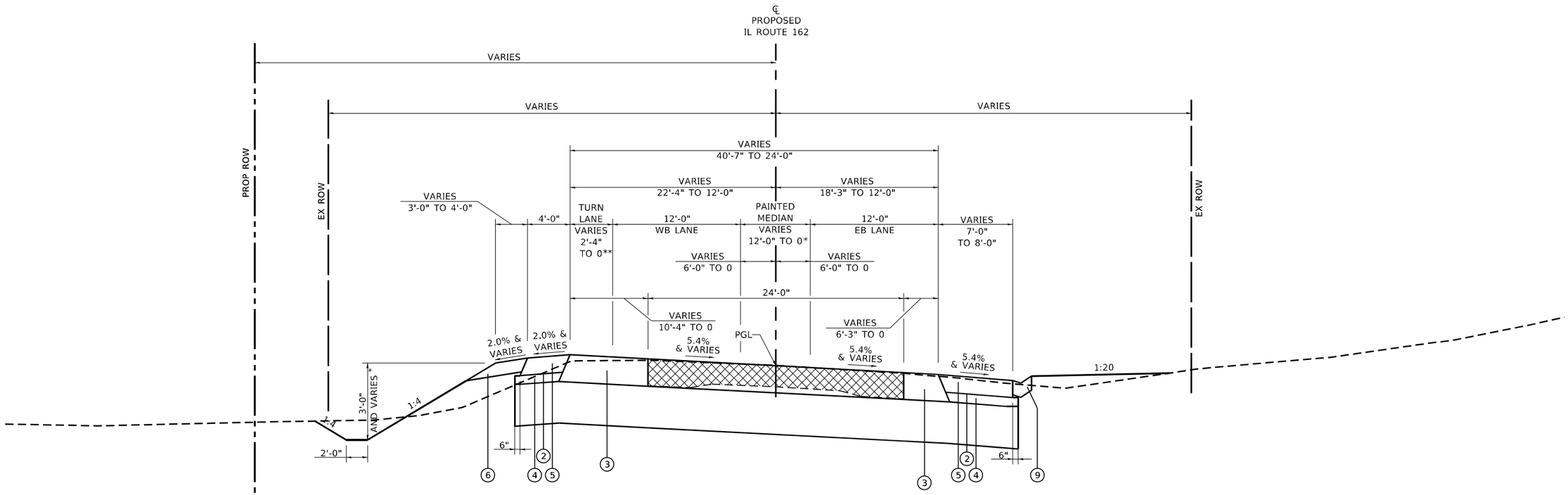
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MODEL NAME	• Typ 10	DRAWN	– LEC	REVISED	–
PLOT SCALE	• 10.0000 ' / in.	CHECKED	– BRM	REVISED	–
PLOT DATE	• 3/7/2024	DATE	– 10/8/2021	REVISED	–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 162

SCALE: 1"=5' | SHEET 10 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	29
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



* PAINTED MEDIAN AT FULL WIDTH
STA 23+74.52

** TAPER ENDS STA 24+32.52

PROPOSED IL ROUTE 162
SUPERELEVATION SECTION

STA 23+50.00 TO STA 26+74.52

FULL SUPERELEVATION
STA 24+68.24 TO STA 26+49.12
TRANSITON TO MATCH EXISTING
STA 26+49.12 TO STA 26+74.52

TRANSITION 1.5% SLOPE TO 5.4% SLOPE
STA 21+95.74 TO STA 24+68.24

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

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LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

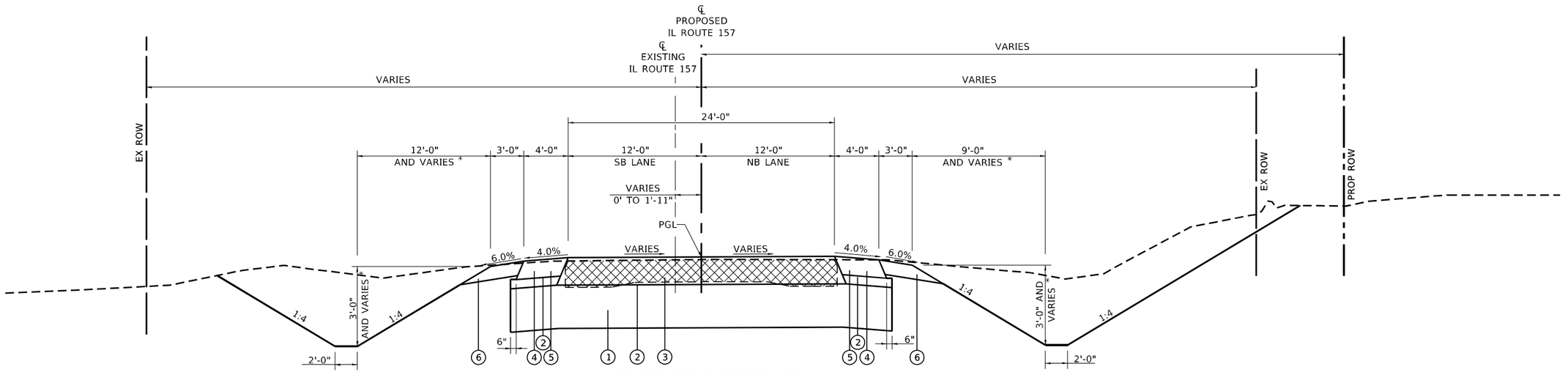
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MODEL NAME	= Typ 11	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/1/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 162

SCALE: 1"=5' | SHEET 11 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	30
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

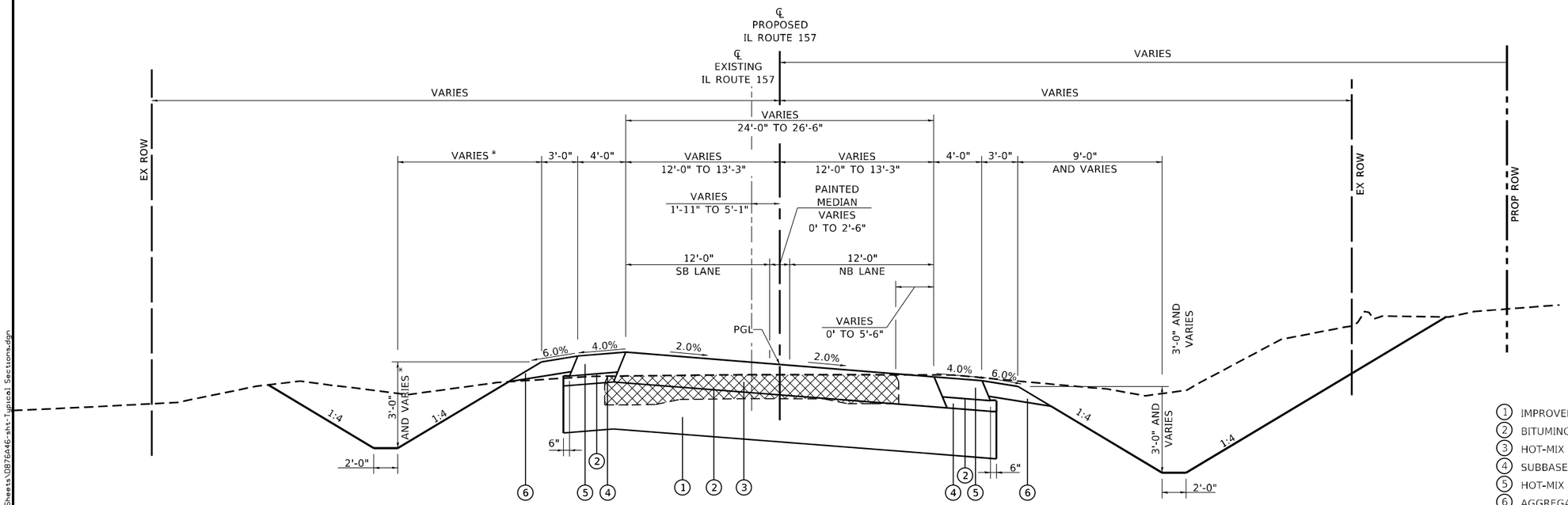


PROPOSED IL ROUTE 157
TANGENT SECTION

STA 572+24,35 TO STA 574+10,92

* SEE PROFILES FOR SPECIAL DITCH LOCATIONS

TRANSITION 1,5% SLOPE TO -2,0% SLOPE
STA 572+24,35 TO STA 573+01,35



PROPOSED IL ROUTE 157
SUPERELEVATION SECTION

STA 574+10.92 TO STA 574+89.12

* SEE PROFILES FOR SPECIAL DITCH LOCATIONS

FULL SUPERELEVATION
STA 573+01.35 TO STA 577+75.11

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

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LOCHMUELLER GROUP
3928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 12	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10,0000 ' / in.	CHECKED	- BRM	REVISED	-
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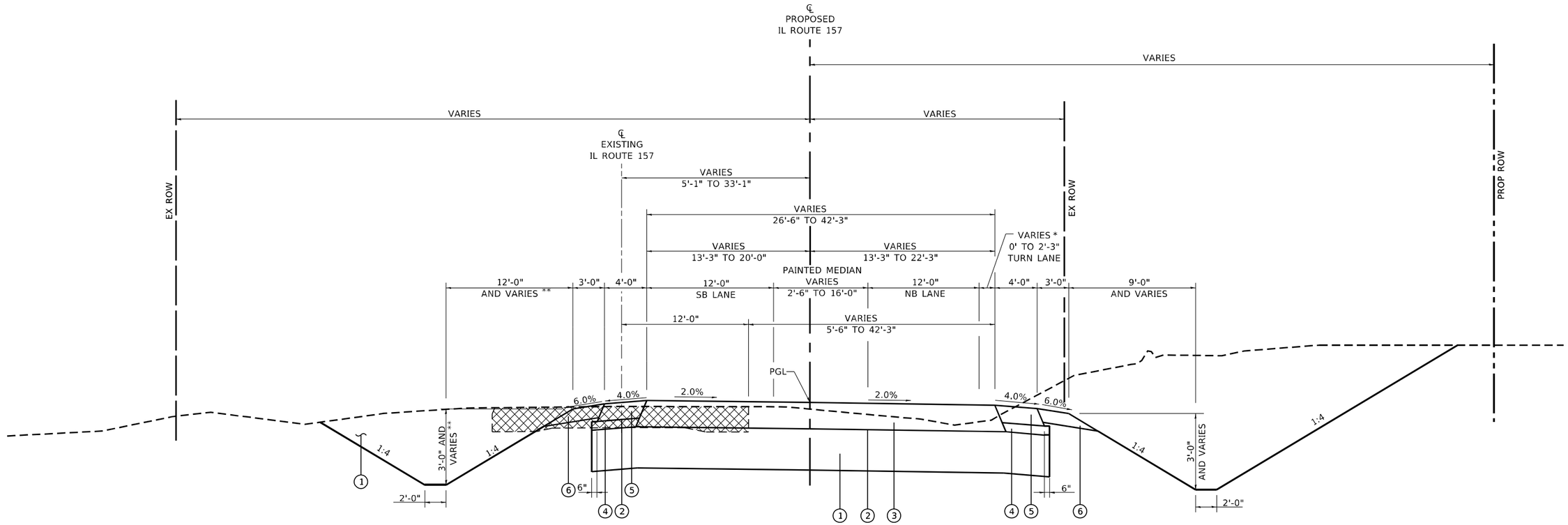
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 12 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	31
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



PROPOSED IL ROUTE 157
SUPERELEVATION SECTION

STA 574+89.12 TO STA 578+25.00

* BEGIN TAPER STA 577+72.63

** SEE PROFILES FOR SPECIAL DITCH LOCATIONS

TRANSITION -2.0% TO 1.5%
STA 577+75.11 TO STA 579+05.11

FULL SUPERELEVATION
STA 573+01.35 TO STA 577+75.11

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\0876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	– ESW	REVISED	–
MODEL NAME	= Typ 13	DRAWN	– LEC	REVISED	–
PLOT SCALE	= 10.0000 ' / in.	CHECKED	– BRM	REVISED	–
PLOT DATE	= 3/7/2024	DATE	– 10/8/2021	REVISED	–

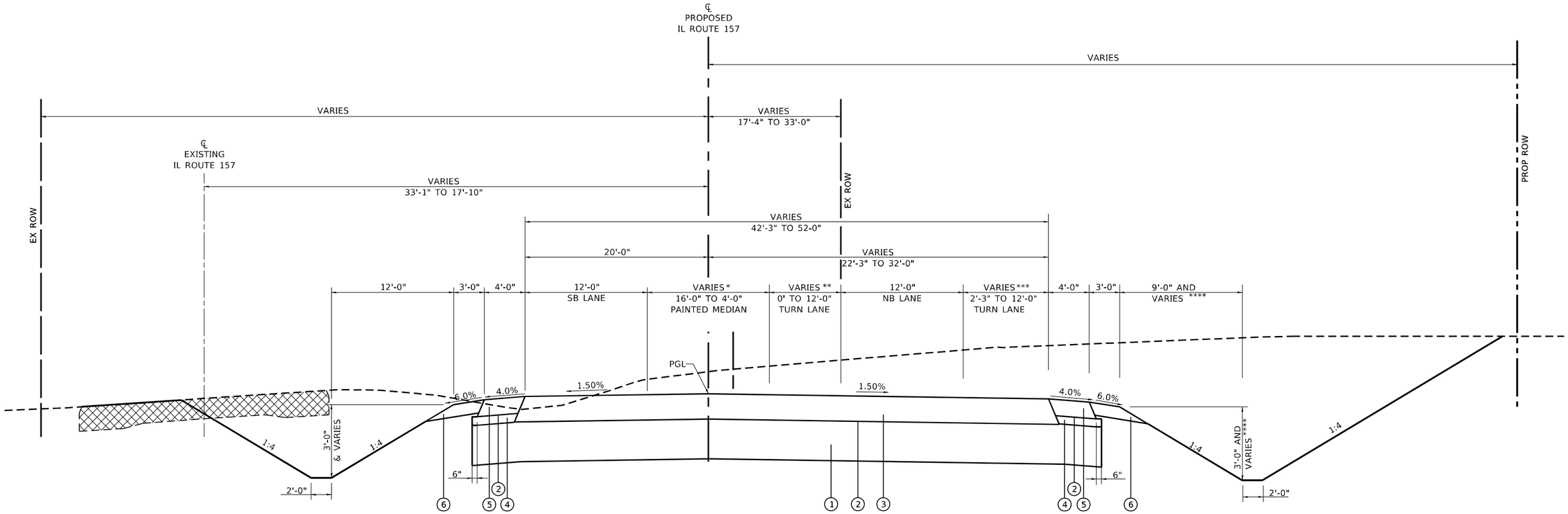
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 13 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	32
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



PROPOSED IL ROUTE 157
TANGENT SECTION

STA 578+25.00 TO STA 581+75.00

TRANSITION -2.0% TO 1.5%
STA 577+75.11 TO STA 579+05.11

* FULL WIDTH PAINTED MEDIAN STA 578+25.21

** BEGIN TAPER STA 578+25.21
TURN LANE FULL WIDTH
STA 580+05.21

*** BEGIN TAPER STA 577+72.63
TURN LANE FULL WIDTH
STA 580+12.63

**** SEE PROFILES FOR SPECIAL DITCH LOCATIONS

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
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9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\x20-0018\CAD\CADD Sheets\D876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S-A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

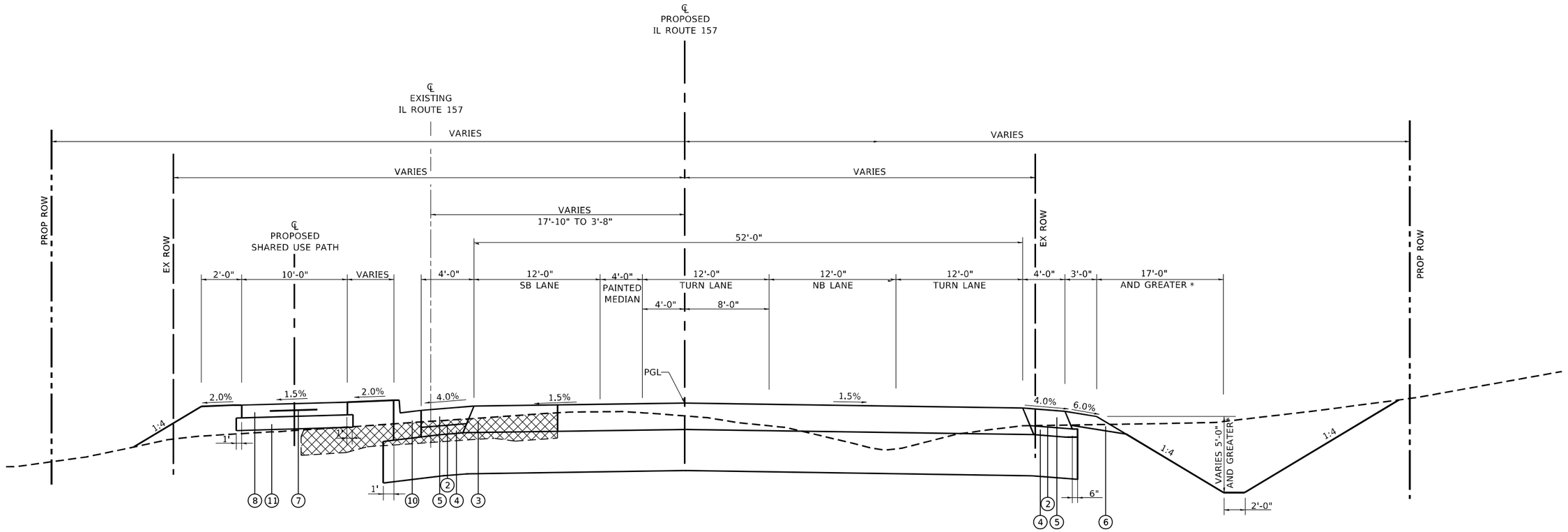
USER NAME	• linda	DESIGNED	– ESW	REVISED	–
MODEL NAME	• Typ 14	DRAWN	– LEC	REVISED	–
PLOT SCALE	• 10.0000 ' / in.	CHECKED	– BRM	REVISED	–
PLOT DATE	• 3/7/2024	DATE	– 10/8/2021	REVISED	–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 14 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	33
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



PROPOSED IL ROUTE 157
TANGENT SECTION

STA 581+75.00 TO STA 583+19.69

* SEE PROFILES FOR SPECIAL DITCH LOCATIONS

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\x20-0018\CADD\CADD Sheets\D876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	• linda	DESIGNED	– ESW	REVISED	–
MODEL NAME	• Typ 15	DRAWN	– LEC	REVISED	–
PLOT SCALE	• 10.0000 ' / in.	CHECKED	– BRM	REVISED	–
PLOT DATE	• 3/7/2024	DATE	– 10/8/2021	REVISED	–

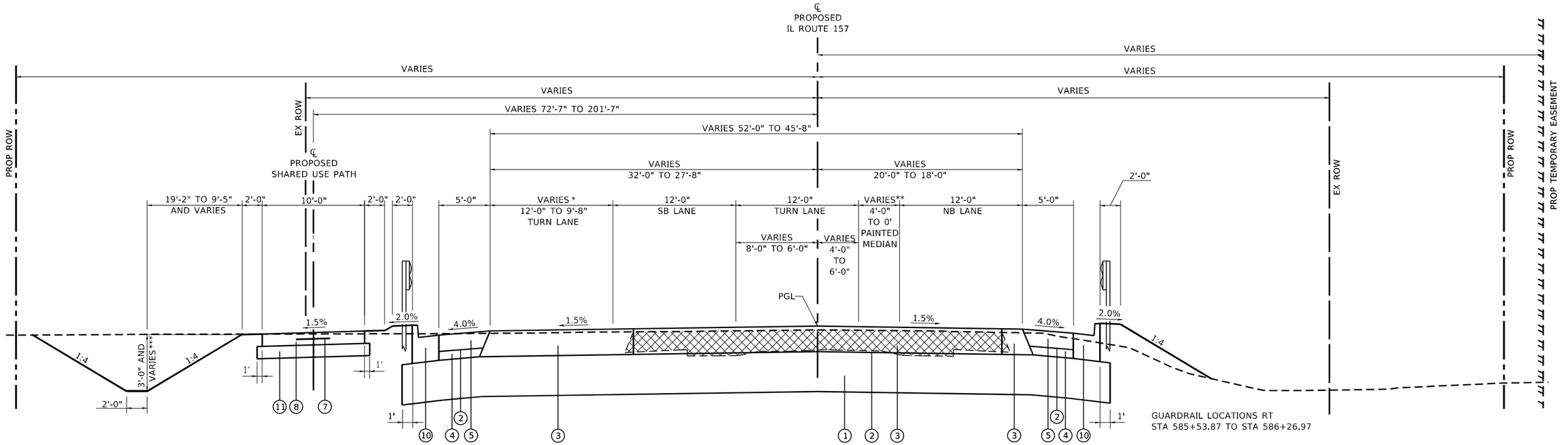
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 15 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	34
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



*** SEE PROFILES FOR SPECIAL DITCH LOCATIONS

* TURN LANE FULL WIDTH ENDS STA 586+57.62

PROPOSED IL ROUTE 157 TANGENT SECTION

STA 583+19.69 TO STA 583+72.33
STA 585+67.67 TO STA 587+23.87

BRIDGE OMISSION
STA 584+02.33 TO STA 585+37.67

BRIDGE APPROACH SLAB
STA 583+72.33 TO STA 584+02.33
STA 585+37.67 TO STA 585+67.67

** MEDIAN FULL WIDTH ENDS STA 586+23.87 TAPERS TO 0'

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
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8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\D876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S-A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 16	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 '/ in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/7/2024	DATE	- 10/8/2021	REVISED	-

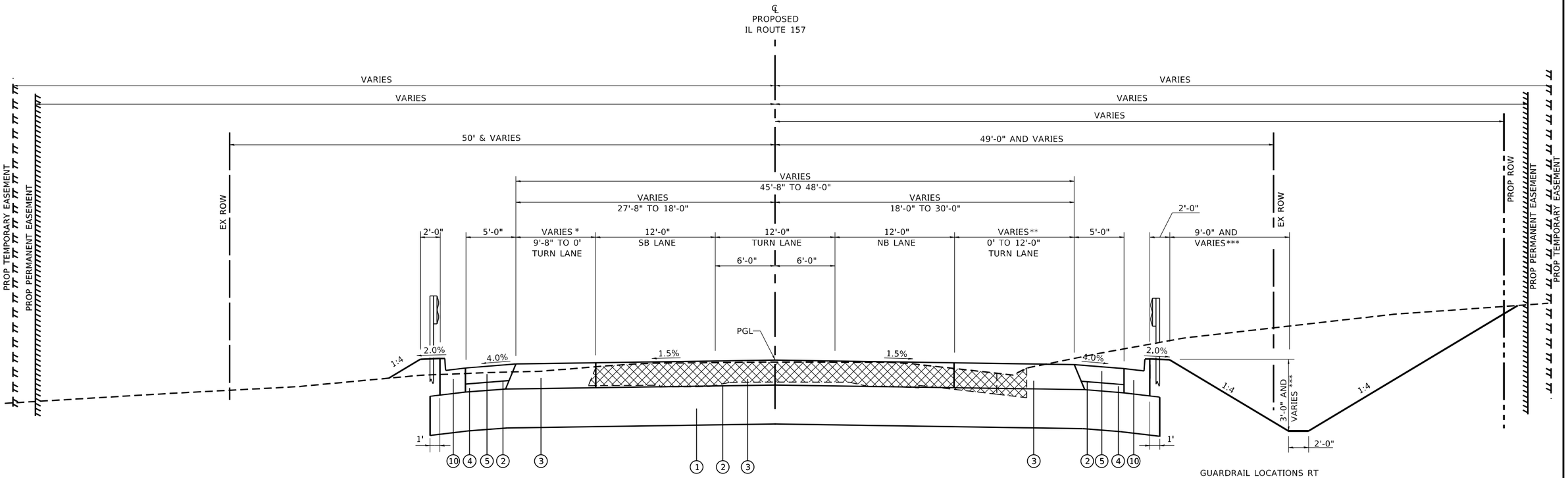
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 16 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	35
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



GUARDRAIL LOCATIONS LT
STA 588+80.00 TO STA 589+81.17

GUARDRAIL LOCATIONS RT
STA 588+45.00 TO STA 589+70.00

* TURN LANE TAPER
ENDS STA 588+97.62

PROPOSED IL ROUTE 157
TANGENT SECTION

STA 587+23.87 TO 592+80.47

** BEGIN TURN LANE TAPER STA 587+63.00
TURN LANE FULL WIDTH STA 590+03.00

*** SEE PROFILES FOR SPECIAL DITCH LOCATIONS

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\420-0018\CADD\CADD Sheets\0876446-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

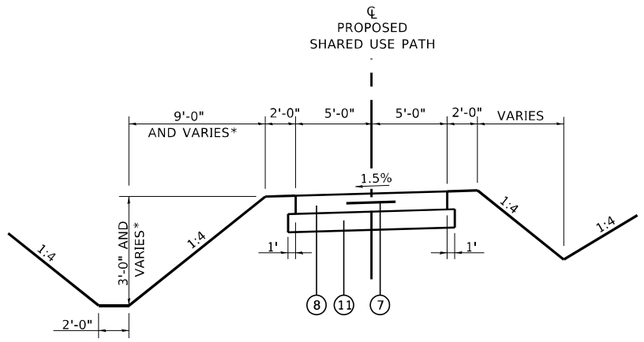
USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 17	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/7/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL ROUTE 157

SCALE: 1"=5' | SHEET 17 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	36
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



PROPOSED SHARED USE PATH SECTION

SOUTHEAST SHARED USE PATH
STA 30+07.80 TO STA 31+72.31

NORTHWEST SHARED USE PATH
STA 12+15.13 TO STA 15+48.38

*SEE PROFILES FOR SPECIAL DITCH LOCATIONS

LEGEND

1. IMPROVED SUBGRADE-GRANULAR MATERIAL, 24"
2. BITUMINOUS MATERIALS (PRIME COAT)
3. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
4. SUBBASE GRANULAR MATERIAL, TYPE C 3"
5. HOT-MIX ASPHALT SHOULDERS, 8"
6. AGGREGATE SHOULDERS, TYPE B 7"
7. NO. 6 EPOXY-COATED TIE BAR, 30" LONG @ 36" CTS.
8. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
9. CONCRETE GUTTER, TYPE B
10. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
11. AGGREGATE BASE COURSE, TYPE A 6"
12. PROPOSED CURB

REMOVAL

FILE NAME: X:\Production\Files\2020\x420-0018\CAD\CADD Sheets\D876A46-sht-Typical Sections.dgn

LOCHMUELLER GROUP
1928 S.A. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= Typ 18	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/7/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
SHARED USE PATH

SCALE: 1"=5' | SHEET 18 OF 18 SHEETS | PR Typ Section 5 Scale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	37
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

PAVING

LOCATION	STATION TO STATION		SIDE	AGGREGATE SUBGRADE IMPROVEMENT 24"	SUBBASE GRANULAR MATERIAL, TYPE C 4"	AGGREGATE BASE COURSE, TYPE A 6"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	AGGREGATE SHOULDERS, TYPE B 7"	HOT-MIX ASPHALT SHOULDERS, 8"	SHOULDER RUMBLE STRIPS, 8 INCH
				SQ YD	SQ YD	SQ YD	POUND	POUND	SQ YD	SQ YD	SQ YD	FOOT
IL 157	572+24.35	582+00.00	LT	2842	371	0	8893	2842	2271	267	371	638
IL 157	572+24.35	582+00.00	RT	2805	439	0	8777	2802	2238	315	439	366
IL 157	585+67.66	592+91.63	LT	2548	265	407	7973	2188	1747		265	
IL 157	585+67.66	592+91.63	RT	2819	438	0	8821	2593	2071		438	
IL 162	6+91.56	13+11.71	LT	1328	266	0	4156	1128	901	212	266	464
IL 162	6+91.56	13+11.71	RT	1282	263	0	4012	1121	896	223	263	484
IL 162	15+25.63	26+74.52	LT	3950	447	0	12360	3955	3160	332	447	269
IL 162	15+25.63	26+74.52	RT	4971	751	319	15555	4827	3885	113	751	
				22545	3240	726	70547	21456	17169	1462	3240	2221

GUARDRAIL

LOCATION	STATION TO STATION		SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
				FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
IL 157	585+52.66	586+26.96	RIGHT	25.0		1		1		1	4
IL 157	585+52.66	586+83.72	LEFT	50.0				1	1	1	4
IL 157	588+30.00	589+73.25	RIGHT	25.0	43.75				2	2	4
IL 157	588+71.30	589+79.83	LEFT	25.0	43.75	1			1	2	4
IL 162 (W)	10+31.99	13+10.43	RIGHT	200.0				1	1	1	4
IL 162 (W)	12+47.38	13+40.54	LEFT	25.0				1	1	1	4
IL 162 (W)	14+92.43	15+85.60	RIGHT	25.0				1	1	1	4
IL 162 (W)	15+24.94	17+89.37	LEFT	187.5			1	1			4
IL 162 (E)	19+08.12	20+84.29	LEFT	112.5				1	1	1	4
IL 162 (E)	24+65.00	26+89.99	RIGHT	125.0					2	2	4
				800.0	87.5	2	1	7	10	12	40

CONCRETE CURB & GUTTER

LOCATION	STATION TO STATION		SIDE	CLASS SI CONCRETE (OUTLET)	CONCRETE GUTTER, TYPE B	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	CONCRETE MEDIAN SURFACE, 4 INCH
				CU YD	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
IL 157	572+24.35	582+00.00	LT					16			
IL 157	572+24.35	582+00.00	RT					0			
IL 157	580+64.22	581+02.66	LT				111				
IL 157	581+16.23	581+25.10	LT			24					39
IL 157	581+40.37	581+83.60	LT				99				
IL 157	585+67.66	592+91.63	LT					612			
IL 157	585+67.66	592+91.63	RT					922			
IL 157	587+53.22	587+98.71	LT			69					
IL 157	588+28.76	588+52.27	LT			51					
IL 162 (E)			SE ISLAND						30	57	345
IL 162 (W)			NW ISLAND						26	52	217
IL 162 (W)			SW ISLAND						36	57	338
IL 162	6+91.56	13+11.71	LT					0			
IL 162	6+91.56	13+11.71	RT					0			
IL 162	15+25.63	26+74.52	LT					0			
IL 162	15+25.63	26+74.52	RT					95			
IL 162 (E)	20+78.81	26+74.70	RT	3	662						
				3	662	144	210	1645	92	166	939

LONGITUDINAL JOINT SEALANT

LOCATION	STATION TO STATION		SIDE	OFFSET	LONGITUDINAL JOINT SEALANT
					FOOT
IL 157	572+24.35	582+84.84	RT	7.57	3181
IL 157	574+20.92	582+90.91	LT	17.42	2610
IL 157	574+21.10	582+90.91	RT	5.00	2609
IL 157	578+25.21	582+90.91	RT	20.00	1397
IL 157	582+18.30	582+74.11	LT	30.64	167
IL 157	585+27.59	592+09.88	LT	18.00	2047
IL 157	585+27.59	592+38.13	LT	6.00	2132
IL 157	585+27.59	592+62.97	RT	6.00	2206
IL 157	587+70.50	592+62.97	RT	18.00	1477
IL 162 (W)	6+91.56	10+04.09	LT	0.00	938
IL 162 (W)	10+04.09	13+15.58	LT	6.70	934
IL 162 (W)	10+04.09	13+08.48	RT	6.56	913
IL 162 (W)	15+30.94	24+34.52	LT	20.00	2711
IL 162 (W)	15+29.67	26+74.52	LT	8.00	3435
IL 162 (W)	15+21.06	26+75.33	RT	7.95	3463
IL 162 (W)	15+14.13	20+88.08	RT	19.94	1722
IL 162 (W)	17+53.24	18+31.74	RT	31.95	236
IL 162 (E)	18+65.94	19+18.30	RT	31.96	157
IL 162 (E)	18+56.42	19+62.00	LT	31.97	317
IL 162 (E)	19+40.31	20+04.24	RT	31.95	192
					32844

MODEL:
FILE NAME: G:\FE\Jobs\2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II\20-009-04 - FEI PRIME\CADD\CADD Sheets\038-047-0876A46-Int-Schedules.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = untitled	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/16/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	38
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

SIDEWALK

LOCATION	STATION TO STATION		SIDE	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
				SQ FT
IL 157	581+70.00	582+56.90	LT	963
IL 157	583+87.06	587+37.48	LT	3327
IL 162 (E)	19+75.16	21+36.26	RT	1644
				5934

DETECTABLE WARNINGS

LOCATION	STATION TO STATION		SIDE	DETECTABLE WARNINGS
				SQ FT
IL 157	581+70.00	582+56.90	LT	42
IL 157	583+87.06	587+37.48	LT	21
IL 162 (E)	19+75.16	21+36.26	RT	43
NW ISLAND				24
SW ISLAND				36
SE ISLAND				24
				190

ENTRANCES

LOCATION	STATION	SIDE	INCIDENTAL HOT-MIX ASPHALT SURFACING	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	AGGREGATE FOR TEMPORARY ACCESS
			TON	SQ YD	TON
IL 157	572+42.49	RT	15		14.8
IL 157	574+08.76	RT	17		17.4
IL 157	579+30.93	LT	10		9.6
IL 157	586+41.01	RT	13		13.2
IL 157	586+86.97	RT	19		18.6
IL 157	587+40.96	RT	11		10.6
IL 157	587+76.87	RT	6		5.6
IL 157	588+13.84	LT		278	46.4
IL 157	589+93.32	RT	9		8.6
IL 157	589+99.67	LT	8		8.2
IL 157	590+61.79	LT	11		11.0
IL 162 (W)	11+95.06	LT	43		43.0
IL 162 (E)	21+00.00	LT	13		13.2
IL 162 (E)	21+51.18	RT	25		25.0
IL 162 (E)	26+41.37	LT	18		17.6
MAIN ST	3+59.20	RT	8		8.0
			226	278	270.8

ESTIMATED

ROW MARKERS

LOCATION	STATION	OFFSET	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	RIGHT OF WAY AND PROPERTY CORNERS
			EACH	EACH
IL 157	572+19.34	49.15 RT	1	
IL 157	573+75.00	52.00 RT	1	
IL 157	577+72.89	79.62 RT	1	
IL 157	579+96.89	82.67 LT	1	
IL 157	580+50.00	80.00 RT		1
IL 157	580+70.56	76.55 LT		1
IL 157	581+51.80	197.77 LT		1
IL 157	581+86.52	90.14 RT		1
IL 157	582+23.84	146.84 RT		1
IL 157	584+62.90	180.00 RT		1
IL 157	585+15.00	105.00 RT		1
IL 157	585+15.00	180.00 RT		1
IL 157	585+60.00	70.00 RT		1
IL 157	586+20.00	49.18 RT		1
IL 157	587+36.85	50.72 LT		1
IL 157	587+47.83	49.29 RT		1
IL 157	589+84.17	49.50 RT		1
IL 157	589+85.61	50.50 LT		1
IL 157	589+86.80	74.50 RT		1
IL 157	592+12.69	74.7 RT		1
IL 157	592+36.16	50.28 LT		1
IL 157	592+66.87	101.18 LT		1
WEST MAIN ST.	11+20.99	39.36 RT		1
IL 162 (W)	2+73.83	39.68 LT		1
IL 162 (W)	7+67.30	216.69 RT		1
IL 162 (W)	9+48.11	119.49 LT	1	
IL 162 (W)	9+59.20	45.11 LT		1
IL 162 (W)	12+02.16	184.98 RT	1	
IL 162 (W)	12+49.25	173.81 RT		1
IL 162 (W)	12+73.09	175.38 RT		1
IL 162 (W)	13+11.32	177.91 RT		1
IL 162 (W)	13+54.72	154.68 RT		1
IL 162 (W)	14+37.21	88.31 RT		1
IL 162 (W)	14+55.00	74.00 RT		1
IL 162 (W)	15+91.52	60.39 RT		1
IL 162 (W)	16+71.64	68.18 RT	1	
IL 162 (W)	17+12.03	72.11 RT		1
IL 162 (W)	17+36.04	393.00 LT		1
IL 162 (E)	20+01.58	147.43 LT		1
IL 162 (E)	20+19.12	70.00 LT		1
IL 162 (E)	20+25.48	102.04 LT		1
IL 162 (E)	20+30.00	65.52 LT		1
IL 162 (E)	21+75.00	69.35 RT		1
IL 162 (E)	22+05.00	39.32 RT		1
IL 162 (E)	23+82.58	39.16 RT	1	
IL 162 (E)	24+94.70	44.06 LT		1
IL 162 (E)	26+25.58	43.42 LT		1
IL 162 (E)	26+26.43	39.42 LT		1
			8	40

EXCAVATION

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	EARTH / CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	GROSS EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	ESTIMATED % UN-USUABLE	ESTIMATED UN-USUABLE	NET EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CY	CY	CY	CY	CY		CY	CY
IL 157	16340		12255	3730	8525	50%	4262.5	4262.5
IL 162 (W)	1070		800	11240	-10440			-10440.0
IL 162 (E)	5600		4200	660	3540			3540.0
PATH	15		10	655	-645			-645.0
CHANNEL		11270	8455	575	7630	50%	3815	3815.0
TOTAL	23025	11270	25720	16860				533
							ROUNDED	535

FURNISHED EXCAVATION

LOCATION	FURNISHED EXCAVATION
ROADWAY	535
ENVIRONMENTAL	1465
TOTAL	2000

IT IS ESTIMATED THAT UP TO 50% OF THE EXCAVATED MATERIAL ALONG IL 162 AND JUDY'S BRANCH WILL BE UNUSUABLE AS FILL. THE QUANTITY FOR FURNISHED EXCAVATION HAS BEEN ESTIMATED FOR THIS INSTANCE AND FOR THE REPLACEMENT OF MATERIAL THAT IS UNSUITABLE FOR RE-USE AS FILL.

MODEL: $MODELNAME$
FILE NAME: $FILE$

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	39
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

INLET AND PIPE PROTECTION

LOCATION	STATION	OFFSET	SIDE	INLET AND PIPE PROTECTION
				EACH
IL 157	573+92.84	29.51	RIGHT	1
IL 157	579+12.49	40.23	LEFT	1
IL 157	580+71.17	42.65	LEFT	1
IL 157	582+09.04	66.26	RIGHT	1
IL 157	582+69.40	98.32	LEFT	1
IL 157	590+08.84	36.52	LEFT	1
IL 157	590+78.41	36.58	LEFT	1
IL 162 (E)	20+28.36	43.46	RIGHT	1
IL 162 (E)	21+16.63	49.99	LEFT	1
				9

INLET FILTERS

LOCATION	STATION	OFFSET	SIDE	INLET FILTERS
				EACH
IL 157	585+71.52	26.00	RIGHT	1
IL 157	585+72.25	38.00	LEFT	1
IL 157	586+58.30	37.00	LEFT	1
IL 157	586+61.62	25.18	RIGHT	1
IL 157	587+14.81	24.00	RIGHT	1
IL 157	587+45.54	32.30	LEFT	1
IL 157	588+00.35	25.83	RIGHT	1
IL 157	588+56.61	26.28	LEFT	1
IL 157	589+64.58	34.00	RIGHT	1
IL 157	589+71.80	24.00	LEFT	1
IL 157	590+14.11	36.00	RIGHT	1
IL 157	590+37.40	24.00	LEFT	1
IL 157	590+69.99	36.00	RIGHT	1
IL 157	590+84.40	36.00	RIGHT	1
IL 157	590+84.40	24.00	LEFT	1
IL 157	590+98.80	24.00	LEFT	1
IL 162 (W)	18+04.96	52.58	LEFT	1
IL 162 (E)	21+35.51	40.82	RIGHT	1
IL 162 (E)	21+66.45	40.74	RIGHT	1
IL 162 (E)	22+31.85	27.45	RIGHT	1
IL 162 (E)	22+90.50	26.80	RIGHT	1
IL 162 (E)	23+65.43	26.00	RIGHT	1
IL 162 (E)	24+40.33	24.53	RIGHT	1
IL 162 (E)	24+50.49	24.24	RIGHT	1
				24

TEMPORARY DITCH CHECKS

LOCATION	STATION	SIDE	TEMPORARY DITCH CHECKS
			FOOT
IL 157	57500	LT	21
IL 157	57500	RT	37
IL 157	57600	RT	42
IL 157	57650	LT	19
IL 157	57700	RT	45
IL 157	57750	LT	20
IL 157	57800	RT	43
IL 157	57825	LT	22
IL 157	57900	LT	23
IL 157	57900	RT	42
IL 157	58000	LT	21
IL 157	58050	RT	32
IL 157	58100	RT	36
IL 157	58125	RT	37
IL 157	58150	RT	40
IL 157	58175	RT	44
IL 157	58200	RT	49
IL 157	58225	LT	26
IL 162 (W)	700	LT	14
IL 162 (W)	900	LT	17
IL 162 (W)	1050	LT	27
IL 162 (W)	1650	RT	22
IL 162 (W)	1791	RT	29
IL 162 (E)	1936	LT	55
IL 162 (E)	1950	LT	59
IL 162 (E)	1967	LT	53
IL 162 (E)	1983	LT	41
IL 162 (E)	2000	LT	30
IL 162 (E)	2025	LT	25
IL 162 (E)	2050	LT	18
IL 162 (E)	2350	LT	15
IL 162 (E)	2400	LT	15
IL 162 (E)	2450	LT	15
IL 162 (E)	2550	LT	16
			1050

SEEDING

LOCATION	STATION TO STATION		SIDE	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
				ACRE	POUND	POUND	POUND	ACRE
IL 157	572+24.35	579+21.44	LEFT	0.34	31	31	31	0.34
IL 157	572+24.35	572+46.75	RIGHT	0.01	1	1	1	0.01
IL 157	572+48.54	574+15.57	RIGHT	0.08	7	7	7	0.08
IL 157	574+14.88	582+47.47	RIGHT	0.79	71	71	71	0.79
IL 157	579+33.81	581+04.38	LEFT	0.10	9	9	9	0.10
IL 157	585+01.35	586+33.51	RIGHT	0.11	10	10	10	0.11
IL 157	585+29.23	587+98.48	LEFT	0.42	38	38	38	0.42
IL 157	586+47.76	586+76.52	RIGHT	0.01	1	1	1	0.01
IL 157	586+98.95	587+38.50	RIGHT	0.03	3	3	3	0.03
IL 157	587+46.92	587+71.48	RIGHT	0.02	2	2	2	0.02
IL 157	587+85.39	589+86.32	RIGHT	0.05	5	5	5	0.05
IL 157	588+27.76	589+85.70	LEFT	0.05	5	5	5	0.05
IL 157	590+00.59	592+79.88	RIGHT	0.19	17	17	17	0.19
IL 157	590+01.08	590+51.21	LEFT	0.02	2	2	2	0.02
IL 157	590+69.22	592+09.92	LEFT	0.06	5	5	5	0.06
	0+00.00	0+00.00	0+00.00	0.00	0	0	0	0.00
IL 162 (W)	6+90.57	13+45.51	RIGHT	0.35	32	32	32	0.35
IL 162 (W)	6+91.19	11+82.88	LEFT	0.28	25	25	25	0.28
IL 162 (W)	12+07.06	17+52.77	LEFT	1.65	149	149	149	1.65
IL 162 (W)	13+07.78	18+77.69	RIGHT	0.36	32	32	32	0.36
IL 162 (W)	14+91.86	17+93.46	LEFT	0.19	17	17	17	0.19
IL 162 (E)	18+97.42	20+88.01	LEFT	0.21	19	19	19	0.21
IL 162 (E)	19+89.01	21+38.00	RIGHT	0.09	8	8	8	0.09
IL 162 (E)	21+12.16	26+27.76	LEFT	0.21	19	19	19	0.21
IL 162 (E)	21+64.18	26+90.00	RIGHT	0.16	14	14	14	0.16
IL 162 (E)	26+47.45	26+74.45	LEFT	0.01	1	1	1	0.01
			TOTAL	5.79	523	523	523	5.79
			PAY	5.75				5.75

PERIMETER EROSION CONTROL BARRIER

LOCATION	STATION TO STATION		SIDE	PERIMETER EROSION BARRIER
				FOOT
IL 157	581+41.03	582+67.38	LEFT	153
IL 157	585+11.23	586+32.76	RIGHT	130
IL 157	586+47.76	586+76.59	RIGHT	68
IL 157	587+51.13	587+70.17	RIGHT	36
IL 157	588+13.83	589+86.32	RIGHT	187
IL 157	588+29.34	589+50.00	LEFT	146
IL 157	591+50.00	592+09.92	LEFT	60
IL 162 (W)	6+90.70	13+05.21	RIGHT	610
IL 162 (W)	10+50.00	11+77.77	LEFT	177
IL 162 (W)	14+34.73	16+50.00	RIGHT	220
IL 162 (E)	22+00.00	23+00.00	LEFT	155
				1942

MODEL:
FILE NAME: G:\FET\Data_2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FET PRIME\CADD\CADD Sheets\038-047-0876A46-sht-Schedules.dgn

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USER NAME = untitled	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/18/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	40
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

DRAINAGE STRUCTURE SCHEDULE

LOCATION	STRUCTURE NUMBER	STATION	OFFSET	SIDE	PRECAST REINFORCED CONCRETE FLARED END SECTIONS				MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	INLETS, TYPE B, TYPE 3V FRAME AND GRATE
					15"	18"	24"	42"								
					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
IL 162	1/1	19+48.6	71.8'	LT				1.0								
IL 162	2/1	19+87.30	49.7'	RT								1.0				
IL 162	2-1/1	19+73.2	96.9'	RT				1.0								
IL 162	3/1	20+28.4	43.5'	RT						1.0						
IL 162	4/1	21+35.50	40.8'	RT							1.0					
IL 162	5/1	21+66.5	40.7'	RT												1.0
IL 162	1/2	22+28.5	55.6'	LT	1.0											
IL 162	2/2	22+31.90	27.5'	RT							1.0					
IL 162	3/2	22+90.5	26.8'	RT												1.0
IL 162	4/2	23+65.4	26.0'	RT												1.0
IL 162	5/2	24+40.5	24.5'	RT												1.0
IL 162	6/2	24+50.5	24.2'	RT									1.0			
IL 157	1/3	581+87.9	70.5'	LT		1.0										
IL 157	2/3	580+72.7	43.1'	LT		1.0										
IL 157	1/4	585+72.3	96.4'	LT	1.0											
IL 157	2/4	585+72.30	38.0'	LT							1.0					
IL 157	3/4	586+57.9	37.1'	LT												1.0
IL 157	4/4	587+45.5	32.6'	LT												1.0
IL 157	5/4	588+56.6	26.3'	LT										1.0		
IL 157	1/5	585+71.6	57.9'	RT	1.0											
IL 157	2/5	585+71.70	26.0'	RT							1.0					
IL 157	3/5	586+61.6	25.2'	RT												1.0
IL 157	4/5	587+14.8	24.1'	RT												1.0
IL 157	5/5	588+00.4	25.9'	RT										1.0		
IL 162	1/6	17+74.1	63.0'	LT			1.0									
IL 162	2/6	17+81.3	41.0'	LT					1.0							
IL 162	2-1/6	18+05.0	52.6'	LT										1.0		
IL 162	3/6	18+00.0	68.1'	RT			1.0									
IL 157	1/7	589+62.5	43.8'	RT					1.0							
IL 157	2/7	589+64.60	34.0'	RT							1.0					
IL 157	3/7	590+14.0	36.0'	RT												1.0
IL 157	4/7	590+70.0	36.0'	RT											1.0	
IL 157	3/7	590+84.4	36.0'	RT										1.0		
IL 157	4/8	590+98.81	24.0'	LT									1.0			
IL 157	3/8	590+84.4	24.0'	LT											1.0	
IL 157	2/8	590+37.4	24.0'	LT												1.0
IL 157	1/8	589+71.8	24.0'	LT							1.0					
IL 157	1/9	574+27.9	29.6'	RT			1.0									
IL 157	2/9	573+92.8	29.5'	RT			1.0									
IL 157	1/10	579+43.3	40.1'	LT	1.0											
IL 157	2/10	579+12.5	40.2'	LT	1.0											
IL 157	1/11	590+08.8	36.5'	LT	1.0											
IL 157	2/11	589+79.9	37.3'	LT	1.0											
IL 157	1/12	590+78.4	36.6'	LT	1.0											
IL 157	2/12	590+42.4	37.0'	LT	1.0											
					9.0	2.0	4.0	2.0	2.0	1.0	6.0	1.0	2.0	4.0	2.0	10.0

MODEL:
FILE NAME: G:\FET\Data_2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FET PRIME\CADD\CADD Sheets\038-047-20876A46-sht-Schedules.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/18/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	41
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

CULVERT AND STORM SEWER SCHEDULE

LOCATION	FROM STUCTURE	TO STRUCTURE	PIPE CALL OUT	PIPE CULVERTS, CLASS A, TYPE 1			STORM SEWERS, CLASS A, TYPE 1	STORM SEWERS, CLASS A, TYPE 2			STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE			STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	
				15"	18"	24"	15"	15"	24"	42"	15"	24"	36"	24"	42"
				FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
IL 162	2-1/1	2-1	A												50
IL 162	5/1	4/1	B											30	
IL 162	4/1	3/1	C									107			
IL 162	3/1	2/1	D										42		
IL 162	2/1	1/1	E							126					
IL 162	6/2	5/2	F								10				
IL 162	5/2	4/2	G								74				
IL 162	4/2	3/2	H								75				
IL 162	3/2	2/2	I								59				
IL 162	2/2	1/2	J					79							
IL 157	2/3	1/3	K		111										
IL 162	3/6	2/6	L						111						
IL 162	2-1/6	2/6	M				26								
IL 162	2/6	1/6	N						23						
IL 157	5/4	4/4	O				111								
IL 157	4/4	3/4	P				88								
IL 157	3/4	2/4	Q				86								
IL 157	2/4	1/4	R				55								
IL 157	5/5	5/4	S					86							
IL 157	4/5	3/5	T					54							
IL 157	3/5	2/5	U					90							
IL 157	2/5	1/5	V					28							
IL 157	5/7	4/7	W				14								
IL 157	4/7	3/7	X				56								
IL 157	3/7	2/7	Y				50								
IL 157	2/7	1/7	Z				10								
IL 157	2/9	1/9	BB			34									
IL 157	2/10	1/10	CC	29											
IL 157	2/11	1/11	DD	29											
IL 157	2/12	1/12	EE	36											
IL 157	4/8	3/8	FF	14											
IL 157	3/8	2/8	GG	47											
IL 157	2/8	1/8	HH	65											
IL 157	1/8	2/7	II	58											
				278	111	34	496	337	134	126	218	107	42	30	50

MODEL:
FILE NAME: G:\FE\Jobs\2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\CADD\CADD Sheets\038-047-0876A46-Int-Schedules.dgn

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USER NAME = untitled	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/18/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	42
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING

STATION	STATION	SIDE	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING					RAISED REFLECTIVE PAVEMENT MARKERS	CURB REFLECTORS	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING CURB	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD							GROOVING FOR RECESSED PAVEMENT MARKING 7"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	GROOVING FOR RECESSED PAVEMENT MARKING 13"	GROOVING FOR RECESSED PAVEMENT MARKING 25"	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	BARRIER WALL REFLECTORS, TYPE B	BARRIER WALL REFLECTORS, TYPE C
				LINE 6"	LINE 8"	LINE 12"	LINE 24"	LETTERS AND SYMBOLS					LINE 6" SOLID WHITE	LINE 6" SKIP-DASH WHITE	LINE 6" DOUBLE YELLOW	LINE 8" SOLID WHITE	LINE 12"	LINE 24"	LETTERS AND SYMBOLS							
				FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH
IL ROUTE 162																										
6+91.50	9+80.60	CTR	DOUBLE YELLOW	578																						
6+91.50	13+11.71	CTR/LT/RT	RAISED REFLECTIVES						21																	
9+80.60	13+11.71	LT/RT	2-DOUBLE YELLOW	1324		100																				
15+28.52	18+19.50	LT	2-DOUBLE YELLOW	1164		60																				
6+91.50	13+22.59	LT	WHITE EDGE LINES	631																						
15+54.55	18+10.77	LT	WHITE EDGE LINES	361											23					23						
6+91.50	13+01.08	RT	WHITE EDGE LINES	610																						
15+27.04	18+41.09	RT	WHITE EDGE LINES	314																						
13+01.08	15+27.04	RT	BRDG WHT EDGE LINES										226							226					4	4
13+22.59	15+54.55	LT	BRDG WHT EDGE LINES										232							232					4	4
13+11.71	15+28.52	CTR	BRDG 2-DBLE YELLOW												867		124			867		124				
15+25.68	18+19.50	LT/RT	RAISED REFLECTIVES						26																	
15+14.14	15+93.00	RT	WHITE SKIP	20																						
15+93.00	17+79.00	RT	SOLID WHITE TURN LANE	186																						
18+16.00		RT	STOP BAR				12																			
16+17.97	16+25.54	CTR	WHITE LEFT TURN ARROW					15.6																		
17+00.14	17+07.70	CTR	WHITE LEFT TURN ARROW					15.6																		
17+82.31	17+89.87	CTR	WHITE LEFT TURN ARROW					15.6																		
16+18.26	16+25.81	RT	WHITE RIGHT TURN ARROW					15.6																		
17+00.44	17+08.00	RT	WHITE RIGHT TURN ARROW					15.6																		
17+82.63	17+90.19	RT	WHITE RIGHT TURN ARROW					15.6																		
15+21.00	15+93.00	RT	WHITE SKIP	18																						
15+93.00	18+35.00	RT	SOLID WHITE TURN LANE	242																						
18+35.00		RT	STOP BAR				12																			
17+80.00		RT	SW ISLAND + MISC		207	107				16		99														
18+36.63		RT	STOP BAR				18																			
16+93.13	18+10.77	LT	SHOULDER STRIPING			101											26					26				
18+46.88		AR	CROSS WALK			103																				
19+08.26	26+74.52	LT	WHITE EDGE LINES	829																						
19+63.52	26+74.52	RT	WHITE EDGE LINES	836																						
19+69.69	20+66.63	RT	SHOULDER STRIPING			106																				
19+00.74		LT	NE PAINTED ISLAND + MISC		72	21																				
19+11.00		LT	STOP BAR				18																			
19+12.41	19+45.33	LT	SHOULDER STRIPING			34																				
19+26.00		LT	STOP BAR				12																			
19+31.00	21+94.52	LT	SOLID WHITE TURN LANE	264																						
19+52.07	26+74.50	CTR/LT/RT	RAISED REFLECTIVES						51																	
21+94.52	24+34.52	LT	WHITE SKIP	60																						
19+66.83	19+74.39	LT	WHITE RIGHT TURN ARROW					15.6																		
20+64.27	20+71.83	LT	WHITE RIGHT TURN ARROW					15.6																		
21+61.72	21+69.27	LT	WHITE RIGHT TURN ARROW					15.6																		
19+66.71	19+74.27	CTR	WHITE LEFT TURN ARROW					15.6																		
20+63.77	20+71.33	CTR	WHITE LEFT TURN ARROW					15.6																		
21+60.84	21+68.40	CTR	WHITE LEFT TURN ARROW					15.6																		
19+49.00		CTR	STOP BAR				12																			
19+26.00	21+94.52	LT	SOLID WHITE TURN LANE	269																						
21+94.52	23+74.52	LT	WHITE SKIP	45																						
19+49.00	26+74.52	RT/LT	2-DOUBLE YELLOW	2902		201																				
CAROLL DRIVE																										
8+87.40	9+63.17	CTR	2-DOUBLE YELLOW	303		47																				
SW PATH (IL RT 157 STATIONING)																										
581+66.16	582+50.18	LT	YELLOW SKIP DASH								21															
NW PATH (IL RT 157 STATIONING)																										
583+91.88	587+37.49	LT	YELLOW SKIP DASH								124			40						40						
SE PATH (IL RT 162 STATIONING)																										
19+77.26	21+34.13	RT	YELLOW SKIP DASH								39															
			SUBTOTAL	10956	279	880	84	187.2	98	16	184	99	458	40	890	0	150	0	0	1388	0	150	0	0	8	8

LOCHMUELLER GROUP
1926 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME = Joe.Kovarik	DESIGNED - ESW	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULE OF QUANTITIES PAVEMENT MARKING**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME = Sch 01	DRAWN - LEC	REVISED -			*	51-1R	MADISON	296	43
PLOT SCALE = 10.0000 ' / in.	CHECKED - BRM	REVISED -					CONTRACT NO. 76A46		
PLOT DATE = 3/8/2024	DATE - 10/8/2021	REVISED -		SCALE: NTS SHEET 6 OF 10 SHEETS			ILLINOIS	FED. AID PROJECT	

*586/592

FILE NAME: \\loch.loc\root\Production\Files\2020\420-0018\CAD\CADD Sheets\D076A46-sht-Schedules.dgn

PAVEMENT MARKING

STATION	STATION	SIDE	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING					RAISED REFLECTIVE PAVEMENT MARKERS	CURB REFLECTORS	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING CURB	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD							GROOVING FOR RECESSED PAVEMENT MARKING 7"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	GROOVING FOR RECESSED PAVEMENT MARKING 13"	GROOVING FOR RECESSED PAVEMENT MARKING 25"	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	BARRIER WALL REFLECTORS, TYPE B	BARRIER WALL REFLECTORS, TYPE C
				LINE 6"	LINE 8"	LINE 12"	LINE 24"	LETTERS AND SYMBOLS					LINE 6" SOLID WHITE	LINE 6" SKIP-DASH WHITE	LINE 6" DOUBLE YELLOW	LINE 8" SOLID WHITE	LINE 12"	LINE 24"	LETTERS AND SYMBOLS							
				FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH
IL ROUTE 157																										
572+24.35	580+41.00	LT	WHITE EDGE LINES	817																						
582+05.91	582+64.55	LT	WHITE EDGE LINES	59																						
572+24.35	582+55.76	RT	WHITE EDGE LINES	1103																						
572+24.35	574+25.00	CTR	DOUBLE YELLOW	401																						
574+25.00	582+58.00	CTR	2-DOUBLE YELLOW	3332		289																				
572+24.35	582+49.00	CTR/LT/RT	RAISED REFLECTIVES						59																	
577+86.21	580+12.63	RT	WHITE SKIP	57																						
578+25.21	580+05.21	RT	WHITE SKIP	45																						
580+05.21	582+66.04	RT	SOLID WHITE TURN LANE	261																						
580+12.63	582+19.82	RT	SOLID WHITE TURN LANE	207																						
580+30.41	580+37.93	CTR	WHITE LEFT TURN ARROW					15.6																		
581+20.47	581+28.30	CTR	WHITE LEFT TURN ARROW					15.6																		
582+10.63	582+18.14	CTR	WHITE LEFT TURN ARROW					15.6																		
580+29.51	580+36.87	RT	WHITE RIGHT TURN ARROW					15.6																		
581+19.44	581+27.10	RT	WHITE RIGHT TURN ARROW					15.6																		
582+09.89	582+17.28	RT	WHITE RIGHT TURN ARROW					15.6																		
582+45.00		RT	STOP BAR				12																			
582+66.00		RT	STOP BAR				12																			
582+20.00		RT	SOLID WHITE SE ISLAND+MISC		181	119				18		103														
582+56.00		RT	STOP BAR				18																			
582+80.00		AR	CROSS WALK			104																				
582+52.29	582+77.01	RT	CROSS WALK			64																				
582+60.59	582+88.76	LT	CROSSWALK			56																				
582+04.00	582+54.55	RT	SHOULDER STRIPING			28																				
583+45.20		LT	SOLID WHITE NW ISLAND+MISC		73	42				16		91				96	33				96	33				
583+66.18	583+86.90	LT	BRDG CROSS WALK			15											52					52				
583+72.00		LT	STOP BAR				12																			
583+82.12	584+34.34	LT	BRDG SHOULDER STRIPING														76					76				
583+82.12	585+67.66	LT	BRDG WHITE EDGE LINES										272							272						
585+67.66	592+09.91	LT	WHITE EDGE LINES	642																					4	4
583+72.33	585+67.66	RT	BRDG WHITE EDGE LINES										201							201						
585+67.66	592+23.54	RT	WHITE EDGE LINES	656																					4	4
584+18.02	585+67.66	LT	BRDG SOLID WHITE TURN LN										150							150						
585+67.66	586+57.61	LT	SOLID WHITE TURN LANE	90																						
583+76.90		LT	BRDG STOP BAR															18					18			
583+71.55	585+67.66	LT	BRDG SOLID WHITE TURN LN										196							196						
585+67.66	586+63.86	LT	SOLID WHITE TURN LANE	96																						
583+88.86		CTR	BRDG STOP BAR															12					12			
583+82.28	585+67.66	RT	BRDG 2-DOUBLE YELLOW												742					742						
583+83.00	585+67.66		BRDG SINGLE YELLOW														34					34				
585+67.66	587+23.86	RT	2-DOUBLE YELLOW	625																						
585+67.66	586+72.31		SINGLE YELLOW			19																				
586+57.61	588+97.61	LT	WHITE SKIP	60																						
584+09.84	584+17.40	LT	BRDG WHT RT TURN ARROW																15.6					15.6		
585+20.42	585+27.97	LT	BRDG WHT RT TURN ARROW																15.6					15.6		
586+30.99	586+38.55	LT	WHITE RIGHT TURN ARROW					15.6																		
584+31.30	584+38.86	CTR	BRDG WHT LT TURN ARROW																15.6					15.6		
585+19.30	585+26.85	CTR	BRDG WHT LT TURN ARROW																15.6					15.6		
586+29.60	586+37.16	CTR	WHITE LEFT TURN ARROW					15.6																		
585+67.66	592+50.00	LT/RT	RAISED REFLECTIVES						48																	
587+23.86	590+28.60	LT/RT	SOLID/SKIP DASH YELLOW-2	152																						
587+23.86	590+28.60	CTR	SOLID YELLOW-2 & BIDI SYMBOLS	609				93.6																		
587+62.92	590+03.00	RT	WHITE SKIP	60																						
590+03.00	592+61.91	RT	SOLID WHITE TURN LANE	259																						
590+29.61	590+37.17	RT	WHITE RIGHT TURN ARROW					15.6																		
591+13.91	591+21.55	RT	WHITE RIGHT TURN ARROW					15.6																		
592+03.91	592+11.55	RT	WHITE RIGHT TURN ARROW					15.6																		
592+64.00		RT	STOP BAR				12																			
590+88.60	592+64.31	RT	SOLID WHITE TURN LANE	176																						
591+13.60	591+21.16	CTR	WHITE LEFT TURN ARROW					15.6																		
592+05.22	592+12.78	CTR	WHITE LEFT TURN ARROW					15.6																		
592+38.61		CTR	STOP BAR				12																			
590+28.60	592+38.13	L I	DOUBLE YELLOW	419																						
MAIN ST																										
10+17.47			PAINTED ISLAND+MISC		51	19																				
10+36.50		LT	STOP BAR				18																			
10+46.50		RT	STOP BAR				12																			
10+27.73	10+87.44	LT	WHITE EDGE LINES	190																						
10+36.49	10+72.95	LT	SHOULDER STRIPING			50																				
			SUBTOTAL	10316	305	804	108	296.4	107	34	0	194	819	0	742	96	195	30	62.4	1561	96	195	30	62.4	8	8
			TOTAL	21272	584	1685	192	483.6	205	50	184	293	1277	40	1632	96	345	30	62.4	2949	96	344	30	62.4	16	16
												TOTAL	2949													

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LOCHMUELLER GROUP
1928 Sth Bradley B. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME = Joe.Kovarik	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES PAVEMENT MARKING
MODEL NAME = Sch 02	DRAWN - LEC	REVISED -		
PLOT SCALE = 10.0000 ' / in.	CHECKED - BRM	REVISED -		
PLOT DATE = 3/8/2024	DATE - 10/8/2021	REVISED -		SCALE: NTS SHEET 7 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	44
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

REMOVALS

LOCATION		PAVEMENT REMOVAL	DRIVEWAY REMOVAL	GUTTER REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	MEDIAN REMOVAL	PAVED SHOULDER REMOVAL	GUARDRAIL REMOVAL	RETAINING WALL REMOVAL	CONCRETE PAD REMOVAL	BRIDGE APPROACH SHOULDER REMOVAL	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	APPROACH SLAB REMOVAL	FENCE REMOVAL
STATION (TO STATION)	ROADWAY	(SQ YD)	(SQ YD)	(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(FOOT)	(SQ FT)	(SQ FT)	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)
8+72.66 TO 9+24.33	CARROLL			52										
8+84.55 TO 9+28.48	CARROLL			44										
9+25.00 TO 9+63.60	CARROLL	224												
10+24.94 TO 10+70.74	MAIN			46										
10+84.42 TO 11+10.67	MAIN											31		
11+99.64 TO 12+03.11	IL 162			83										
12+15.95 TO 13+78.82	IL 162								207					
12+56.73 TO 13+73.88	IL 162													117
16+66.68 TO 16+70.50	IL 162													42
19+03.68 TO 26+74.52	IL 162						271							
19+66.74 TO 19+91.73	IL 162											55		
20+05.64 TO 20+65.88	IL 162									1604				
20+83.26 TO 21+15.11	IL 162											117		
21+17.30 TO 21+88.48	IL 162		23									270		
223+74.18 TO 235+10.50	EX IL 162	4083												
233+31.15 TO 234+87.01	EX IL 162					1253								
238+65.50 TO 246+27.15	EX IL 162	2152												
572+33.26 TO 583+89.35	EX IL 157	3621												
572+39.60 TO 572+54.73	IL 157											91		
573+97.11 TO 574+22.29	IL 157											108		
576+70.83 TO 577+41.25	IL 157								70					
579+15.35 TO 579+39.47	IL 157		17											
579+81.50 TO 580+83.40	IL 157						74							
580+60.00 TO 580+73.51	IL 157									1056				
581+49.71 TO 583+95.99	IL 157						267							
582+18.96 TO 584+09.07	IL 157							190						
583+19.94 TO 584+23.73	IL 157							138						
583+38.19 TO 583+96.07	IL 157						38							
583+89.35 TO 584+09.29	IL 157												61	
583+94.81 TO 584+09.30	IL 157										14			
583+96.09 TO 584+09.27	IL 157										11			
585+30.48 TO 585+49.85	IL 157												68	
585+30.53 TO 585+43.13	IL 157										13			
585+30.46 TO 585+43.32	IL 157										7			
585+30.68 TO 586+30.05	IL 157							99						
585+31.24 TO 585+67.69	IL 157							125						
585+43.13 TO 592+80.48	EX IL 157	3416												
585+43.22 TO 592+52.68	IL 157						360							
586+67.53 TO 586+87.59	IL 157							20						
586+76.71 TO 587+01.98	IL 157											108		
587+48.14 TO 588+64.64	IL 157		251											
587+72.91 TO 587+99.90	IL 157				61									
587+85.45 TO 589+68.21	IL 157							183						
588+27.76 TO 588+54.59	IL 157				56									
588+54.98 TO 589+75.25	IL 157							1125						
589+62.63 TO 589+91.78	IL 157			29										
589+84.02 TO 590+10.75	IL 157											62		
590+01.59 TO 592+51.82	IL 157			250										
590+40.32 TO 590+73.28	IL 157											82		
590+89.71 TO 591+83.70	IL 157						25							
591+83.77 TO 591+09.91	IL 157			26										
	TOTAL	13496	291	530	117	1253	1035	1880	277	2660	45	924	129	159

TREE REMOVAL

LOCATION			TREE REMOVAL,		
			ACRES	(6 TO 15 UNITS DIAMETER)	(OVER 15 UNITS DIAMETER)
STATION (TO STATION)	SIDE	ROADWAY	(ACRE)	(UNIT)	(UNIT)
9+75 TO 18+47	RT/LT	IL 162	2.25		
22+04.38	Rt	IL 162			44
580+28.86	RT	IL 157			30
582+14.89	LT	IL 157			26
582+61.44	LT	IL 57		10	
582+88.76	LT	IL 157			22
582+90.23	LT	IL 157			20
582+90.86	LT	IL 57		8	
582+97.70	LT	IL 57		6	
583+01.33	LT	IL 157			30
583+04.22	LT	IL 57		6	
583+40 TO 585+10	RT/LT	IL 157	0.27		
585+40.18	RT	IL 157			35
585+63.31	RT	IL 157			26
585+64.08	RT	IL 57		12	
585+78.35	RT	IL 57		9	
586+05.16	RT	IL 157			22
590+51.88	RT	IL 157			34
		SUBTOTAL	2.52	51	289
		PAY TOTAL	3.00	51	289

BUILDING REMOVAL

LOCATION			BUILDING REMOVAL		
			NO.1	NO.2	NO.3
STATION	SIDE	ROADWAY	L SUM	L SUM	L SUM
13+82.67	RT	IL ROUTE 162	1		
15+01.36	RT	IL ROUTE 162		1	
15+72.46	RT	IL ROUTE 162			1
		PAY TOTAL	1	1	1

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LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME = JordanPettibone	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES REMOVAL, TREE REMOVAL	
MODEL NAME = Sch 03	DRAWN - LEC	REVISED -			
PLOT SCALE = 10.0000 ' / in.	CHECKED - BRM	REVISED -			
PLOT DATE = 11/21/2024	DATE - 10/8/2021	REVISED -		SCALE: NTS SHEET 8 OF 10 SHEETS Schedules	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	45
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

SIGNING

LOCATION			MUTCD LEGEND	SIGN	SIGN DIMENSIONS	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	REMOVE SIGN PANEL ASSEMBLY TYPE A	REMOVE SIGN PANEL ASSEMBLY TYPE B	RELOCATE SIGN PANEL ASSEMBLY TYPE A	RELOCATE SIGN PANEL ASSEMBLY TYPE B	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT
STATION	SIDE	ROADWAY	SIGN NO.	DESCRIPTION	(IN. X IN.)	SQ FT	SQ FT	EACH	EACH	EACH	EACH	FOOT	EACH	FOOT
7+00	LT	IL 162	R2-1	SPEED LIMIT	24 x 30	5.00						14.50		
7+00	RT	IL 162	R2-1	SPEED LIMIT	24 x 30	5.00						14.50		
7+91	RT	IL 162		STOP AHEAD	30 x 30			1						
9+00	LT	Carrol	W-14	DEAD END	30 x 30	6.25						14.50		
9+25	LT	Carrol		STREET SIGNS	24 x 12					1				
9+50	RT	IL 162	W3-3	SIGNAL AHEAD	30 x 30	6.25						14.50		
9+61	RT	Carrol	R1-1	STOP SIGN	30 x 30	6.30						14.50		
10+28	RT	IL 162		JUNCTION	21 x 15			1						
10+28	LT	IL 162		LOVE ILLINOIS	30 x 36						1			
11+50	RT	IL 162	M2-1	JUNCTION	21 x 15	2.19						15.25		
11+50	RT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
12+75	RT	IL 162	D1-2	DESTINATION SIGN	48 x 54		18.00							34.00
12+90	LT	IL 162		WEST	24 x 12			1						
				ROUTE SIGN	30 x 24									
13+58	LT	IL 162		ROUTE SIGN	30 x 24			1						
				RIGHT ARROW	21 x 15									
13+71	LT	IL 162		DESTINATION SIGN	48 x 30				1					
				SPEED LIMIT	24 x 30									
15+47	LT	W BIKE	R1-1	STOP SIGN	24 x 24	4.00						14.00		
15+47	RT	W BIKE	W	CYLCLIST DISMOUNT	18 x 18	2.25						15.00		
			R5-3	NO MOTOR VEHICLES	18 x 18	2.25								
15+02	RT	IL 162		DESTINATION SIGN	48 x 54				1					
15+70	LT	IL 162	D2-1	DESTINATION SIGN	48 x 54		18.00							34.00
15+93	RT	IL 162	R3-I100	RIGHT TURN LANE	30 x 24	5.00						14.00		
16+18	LT	IL 162		KEEP RIGHT	24 x 30			1						
16+70	LT	IL 162	M3-4	CARDINAL DIRECTION	24 x 12	2.00						15.00		
16+70	LT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
17+46	LT	IL 162		KEEP RIGHT	24 x 30			1						
17+53	RT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
17+53	RT	IL 162	M6-4	DIRECTIONAL ARROW	21 x 15	2.19								
17+53	RT	IL 162	M3-2	CARDINAL DIRECTION	24 x 12	2.00								16.75
17+53	RT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
17+53	RT	IL 162	M6-3	DIRECTIONAL ARROW	21 x 15	2.19								
17+72	LT	IL 162		ROUTE SIGN	30 x 24				1					
				DIRECTIONAL ARROW	21 x 15									
				ROUTE SIGN	30 x 24									
				RIGHT ARROW	21 x 15									
19+27	LT	IL 162		STOP SIGN	30 x 30				1					
				ROUTE SIGN	30 x 24									
				DIRECTIONAL ARROW	21 x 15									
				ROUTE SIGN	30 x 24									
				RIGHT ARROW	21 x 15									
19+62	LT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
19+62	LT	IL 162	M6-4	DIRECTIONAL ARROW	21 x 15	2.19								
19+62	LT	IL 162	M3-4	CARDINAL DIRECTION	24 x 12	2.00								16.75
19+62	LT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
19+62	LT	IL 162	M6-3	DIRECTIONAL ARROW	21 x 15	2.19								
19+97	LT	IL 162		NO PASSING ZONE	48 x 36				1					
21+30	RT	IL 162	R5-3	NO MOTOR VEHICLES	24 x 24	4.00						14.00		
21+30	RT	IL 162	R1-1	STOP SIGN	18 x 18	2.25						15.00		
21+30	RT	IL 162	W	CYCLIST DISMOUNT	18 x 18	2.25								
21+74	LT	IL 162		DESTINATION SIGN	48 x 54				1					
21+74	RT	IL 162		STOP SIGN	30 x 30			1						
21+75	RT	IL 162	R1-1	STOP SIGN	30 x 30	6.25						14.50		
21+95	LT	IL 162	R3-I100	RIGHT TURN LANE	30 x 24	5.00						14.00		
22+00	RT	IL 162	M3-2	CARDINAL DIRECTION	24 x 12	2.00						15.00		
22+00	RT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
23+60	LT	IL 162		ROUTE SIGN	30 x 24			1						
				RIGHT ARROW	21 x 15									
22+74	RT	IL 162		LOVE ILLINOIS	30 x 36					1				
				ADOPT A HIGHWAY	30 x 18									
24+15	LT	IL 162	D1-2	DESTINATION SIGN	48 x 54		18.00							34.00
25+55	RT	IL 162		JUNCTION	21 x 15			1						
				ROUTE SIGN	30 x 24									
25+57	RT	IL 162		DESTINATION SIGN	48 x 30				1					
				SPEED LIMIT	24 x 30									
25+60	LT	IL 162	M2-1	JUNCTION	21 x 15	2.19						15.25		
25+60	LT	IL 162	M1-I100	ROUTE SIGN	30 x 24	5.00								
26+00	RT	IL 162	R2-1	SPEED LIMIT	24 x 30	5.00								39.00
26+00	RT	IL 162	D2-2	DESTINATION SIGN	48 x 54		18.00							
26+75	LT	IL 162	R2-1	SPEED LIMIT	24 x 30	5.00						14.50		
30+00	LT	IL 162	W3-3	SIGNAL AHEAD	30 x 30	6.25						14.50		
31+23	LT	IL 162		STOP AHEAD	30 x 30			1						
					SUBTOTAL	139.44	72.00	10	7	2	1	262.50	0	174.50

SIGNING

LOCATION			MUTCD LEGEND	SIGN	SIGN DIMENSIONS (IN. X IN.)			SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	REMOVE SIGN PANEL ASSEMBLY TYPE A	REMOVE SIGN PANEL ASSEMBLY TYPE B	RELOCATE SIGN PANEL ASSEMBLY TYPE A	RELOCATE SIGN PANEL ASSEMBLY TYPE B	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT
STATION	SIDE	ROADWAY	SIGN NO.	DESCRIPTION				SQ FT	SQ FT	EACH	EACH	EACH	EACH	FOOT	EACH	FOOT
573+00	RT	IL 157	R2-1	SPEED LIMIT	24	x	30	5.00						14.50		
573+00	LT	IL 157	R2-1	SPEED LIMIT	24	x	30	5.00						14.50		
574+50	RT	IL 157	W3-3	SIGNAL AHEAD	30	x	30	6.25						14.50		
575+92	RT	IL 157		SPEED LIMIT	24	x	30			1						
576+06	LT	IL 157		SPEED LIMIT	24	x	30			1						
578+00	RT	IL 157	D1-2	DESTINATION SIGN	48	x	54		18.00							34.00
578+71	RT	IL 157		DESTINATION SIGN	48	x	54				1					
580+00	LT	IL 157	M1-I100	ROUTE SIGN	30	X	24	5.00						15.00		
580+00	LT	IL 157	M-3	CARDINAL DIRECTION	24	X	12	2.00								
580+13	RT	IL 157	R3-I100	RIGHT TURN LANE	30	X	24	5.00						14.00		
580+82	LT	IL 157		STOP SIGN	30	x	30			1						
581+43	LT	IL 157		DEAD END	30	x	30			1						
581+82	LT	IL 157	R1-1	STOP SIGN	18	x	18	2.25						15.00		
581+82	LT	IL 157	W	CYCLIST DISMOUNT	18	x	18	2.25								
581+83	LT	IL 157	R5-3	NO MOTOR VEHICLES	24	x	24	4.00						14.00		
581+95	RT	IL 157	M1-I100	ROUTE SIGN	30	x	24	5.00								16.75
581+95	RT	IL 157	M6-4	DIRECTIONAL ARROW	21	x	15	2.19								
581+95	RT	IL 157	M3-1	CARDINAL DIRECTION	24	x	12	2.00								
581+95	RT	IL 157	M1-I100	ROUTE SIGN	30	x	24	5.00								
581+95	RT	IL 157	M6-3	DIRECTIONAL ARROW	21	x	15	2.19								
581+96	LT	IL 157		SOUTH	24	x	12			1						
				ROUTE 157	30	x	24									
582+33	RT	IL 157	R5-3	NO MOTOR VEHICLES	24	x	24	4.00						14.00		
582+35	LT	IL 157	R5-3	NO MOTOR VEHICLES	24	x	24	4.00						14.00		
582+38	RT	IL 157		ROUTE SIGN	30	x	24				1					
				STRAIGHT ARROW	21	x	15									
				WEST	24	x	12									
				ROUTE SIGN	30	x	24									
				RIGHT ARROW	21	x	15									
				EAST	24	x	12									
				ROUTE SIGN	30	x	24									
				LEFT ARROW	21	x	15									
582+51	RT	IL 157	D3-1	STREET NAME	30	x	8	1.67						14.17	1	
582+51	RT	IL 157	R1-1	STOP SIGN	18	x	18	2.25								
582+51	LT	IL 157	D3-1	STREET NAME	30	x	8	1.67						9.17		
582+51	LT	IL 157	R1-1	STOP SIGN	18	x	18	2.25								
582+62	LT	IL 157	W	CYCLIST DISMOUNT	18	x	18	2.25						13.50		
583+29	LT	IL 157		TWO DIRECTION ARROW	48	x	24			1						
583+66	LT	IL 157		ROUTE SIGN	30	x	24				1					
				LEFT ARROW	21	x	15									
				ROUTE SIGN	30	x	24									
				STRAIGHT ARROW	21	x	15									
583+71	RT	IL 157		WEIGHT LIMIT	36	x	24			1						
583+90	LT	IL 157	D3-1	STREET NAME	30	x	8	1.67						14.17		
583+90	LT	IL 157	R1-1	STOP SIGN	18	x	18	2.25								
583+90	LT	IL 157	W	CYCLIST DISMOUNT	18	x	18	2.25								
584+12	LT	IL 157	R5-3	NO MOTOR VEHICLES	24	x	24	4.00						14.00		
585+41	RT	IL 157		ROUTE SIGN	30	x	24				1					
				LEFT ARROW	21	x	15									
				ROUTE SIGN	30	x	24									
				STRAIGHT ARROW	21	x	15									
585+70	LT	IL 157	M1-I100	ROUTE SIGN	30	x	24	5.00								
585+70	LT	IL 157	M6-4	DIRECTIONAL ARROW	21	x	15	2.19								
585+70	LT	IL 157	M3-1	CARDINAL DIRECTION	24	x	12	2.00								16.75
585+70	LT	IL 157	M1-I100	ROUTE SIGN	30	x	24	5.00								
585+70	LT	IL 157	M6-3	DIRECTIONAL ARROW	21	x	15	2.19								
585+90	RT	IL 157	M3-1	CARDINAL DIRECTION	24	x	12	2.00								
585+90	RT	IL 157	M1-I100	ROUTE SIGN	30	x	24	5.00						15.00		
585+93	RT	IL 157		TWO-DIRECTION ARROW	48	x	24			1						
586+16	RT	IL 157		STOP LIGHT AHEAD	30	x	30			1						
586+58	LT	IL 157	R3-I100	RIGHT TURN LANE	30	x	24	5.00						14.00		
586+87	LT	IL 157		EAST	24	x	12				1					
				ROUTE SIGN	30	x	24									
				LEFT ARROW	21	x	15									
				WEST	24	x	12									
				ROUTE SIGN	30	x	24									
				RIGHT ARROW	21	x	15									
				ROUTE SIGN	30	x	24									
				STRAIGHT ARROW	21	x	15									
587+84	LT	IL 157		STOP SIGN	30	x	30			1						
587+85	LT	IL 157	R1-1	STOP SIGN	30	x	30	6.30						14.50		
588+65	LT	IL 157	R3-I100	RIGHT TURN LANE	30	X	24	5.00						14.00		
589+30	RT	IL 157		SPEED LIMIT	24	x	30			1						
589+35	LT	IL 157		PARK-RIDE	30	x	36						1			
				RIGHT ARROW	21	x	15									
589+65	RT	IL 157	R2-1	SPEED LIMIT	24	x	30	5.00						14.50		
589+65	LT	IL 157	D1-2	DESTINATION SIGN	48	x	54		18.00							34.00
590+10	RT	IL 157	R3-I100	RIGHT TURN LANE	30	x	24	5.00						14.00		
590+75	RT	IL 157		DESTINATION SIGN	48	x	18						1			
				DESTINATION SIGN	48	x	18									
				DESTINATION SIGN	48	x	18									
				DESTINATION SIGN	48	x	18									
				DESTINATION SIGN	48	x	18									
591+30	LT	IL 157		DESTINATION SIGN	48	x	54				1					
							SUBTOTAL	131.07	36.00	11	6	0	2	280.50	1	101.50
							PAY TOTAL	271.00	108.00	21	13	2	3	543	1	276.00

PROP. CURVE J12
PI STA. = 10+20.26
Δ = 14° 37' 45" (RT)
D = 5° 22' 48"
R = 1,065.00'
T = 136.71'
L = 271.92'
E = 8.74'
e = 6.00%
T.R. = 38.50'/50.00'
S.E. RUN = 154.00'/198.00'
P.C. STA. = 8+83.56
P.T. STA. = 11+55.48
NORTHING = 755,247.4896
EASTING = 2,342,922.3888

PROP. CURVE J2
PI STA. = 27+85.26
Δ = 29° 06' 01" (RT)
D = 3° 49' 57"
R = 1,494.96'
T = 388.02'
L = 759.28'
E = 49.53'
e = 5.40%
T.R. = 38.30'/57.60'
S.E. RUN = 143.00'/215.00'
P.C. STA. = 23+97.24
P.T. STA. = 31+56.52
NORTHING = 755,359.0000
EASTING = 2,344,685.3500

PROP. CURVE C50
PI STA. = 575+42.97
Δ = 6° 02' 42" (RT)
D = 1° 10' 44"
R = 4,860.00'
T = 256.62'
L = 512.76'
E = 6.77'
e = 2.00%
T.R. = 33.00'/56.00'
S.E. RUN = 44.00'/74.00'
P.C. STA. = 572+86.35
P.T. STA. = 577+99.11
NORTHING=754,536.7338
EASTING = 2,343,769.8182

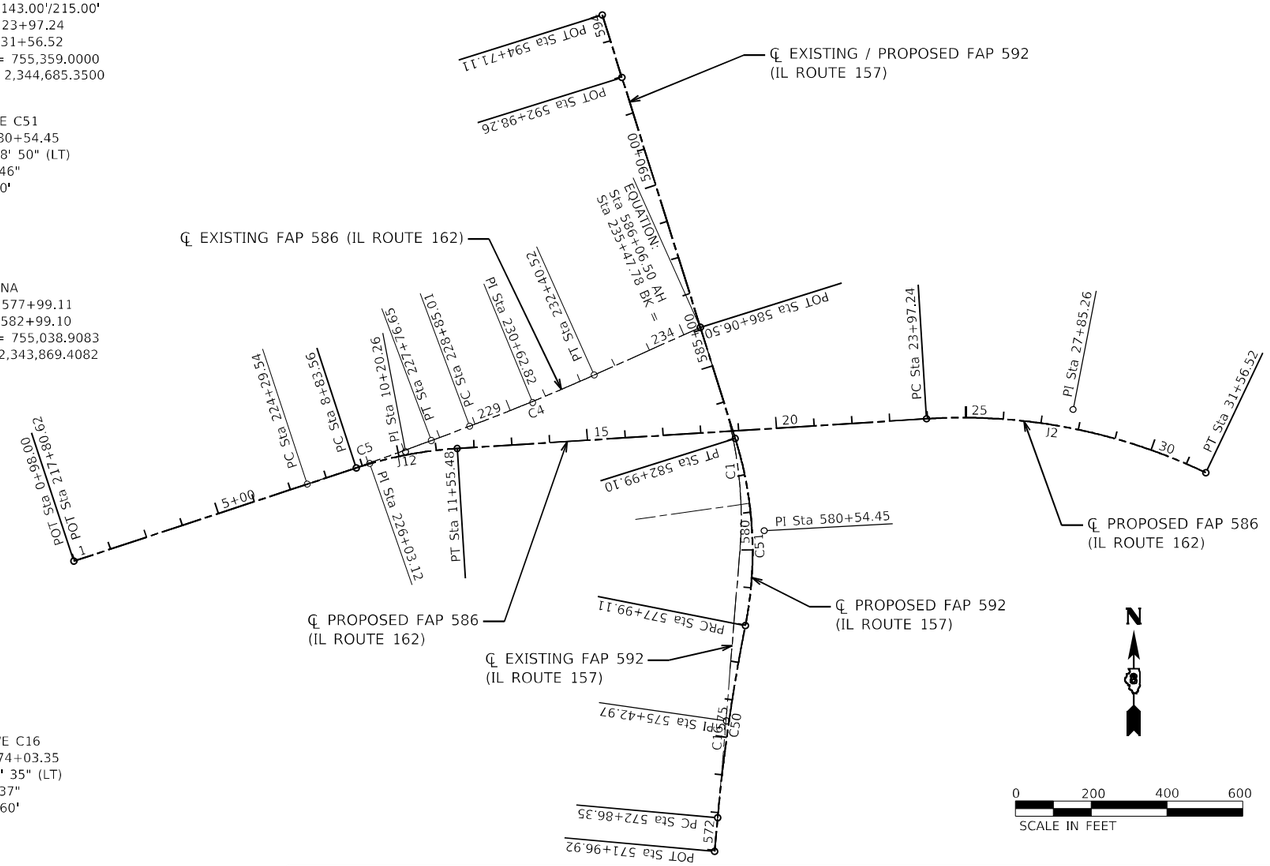
PROP. CURVE C51
PI STA. = 580+54.45
Δ = 28° 38' 50" (LT)
D = 5° 43' 46"
R = 1,000.00'
T = 255.34'
L = 499.99'
E = 32.08'
e = NC
T.R. = NA
S.E. RUN = NA
P.C. STA. = 577+99.11
P.T. STA. = 582+99.10
NORTHING = 755,038.9083
EASTING = 2,343,869.4082

EXIST. CURVE C1
PI STA. = 582+06.56
Δ = 22° 07' 33" (LT)
D = 5° 25' 55"
R = 1,054.82'
T = 206.24'
L = 407.34'
E = 19.97'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 580+00.32
P.T. STA. = 584+07.66
NORTHING = 755,189.3250
EASTING = 2,343,822.1851

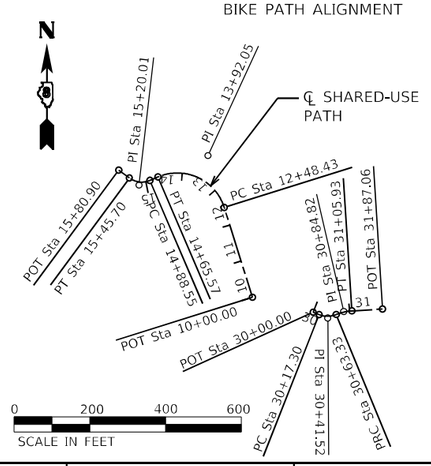
EXIST. CURVE C16
PI STA. = 574+03.35
Δ = 0° 28' 35" (LT)
D = 0° 10' 37"
R = 32,368.60'
T = 134.55'
L = 269.09'
E = 0.28'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 572+68.81
P.T. STA. = 575+37.90
NORTHING = 754,388.8087
EASTING = 2,343,756.4293

EXIST. CURVE C4
PI STA. = 230+62.82
Δ = 3° 41' 32" (LT)
D = 1° 02' 19"
R = 5,516.68'
T = 177.82'
L = 355.51'
E = 2.87'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 228+85.01
P.T. STA. = 232+40.52
NORTHING = 755,377.1400
EASTING = 2,342,827.6400

EXIST. CURVE C5
PI STA. = 226+03.12
Δ = 2° 14' 08" (LT)
D = 0° 38' 39"
R = 8,896.47'
T = 173.58'
L = 347.11'
E = 1.69'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 224+29.54
P.T. STA. = 227+76.65
NORTHING = 755,216.2500
EASTING = 2,343,822.1851



BIKE PATH ALIGNMENT



PROP. CURVE BT42
PI STA. = 15+20.01
Δ = 59° 32' 14" (RT)
D = 104° 10' 27"
R = 55.00'
T = 31.46'
L = 57.15'
E = 8.36'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 14+88.55
P.T. STA. = 15+45.70

PROP. CURVE BT41
PI STA. = 13+92.05
Δ = 95° 41' 52" (LT)
D = 44° 04' 25"
R = 130.00'
T = 143.62'
L = 217.13'
E = 63.72'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 12+48.43
P.T. STA. = 14+65.57

PROP. CURVE SEPATH1
PI STA. = 30+41.52
Δ = 43° 57' 14" (LT)
D = 95° 29' 35"
R = 60.00'
T = 24.21'
L = 46.03'
E = 4.70'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 30+17.30
P.T. STA. = 30+63.33

PROP. CURVE SEPATH2
PI STA. = 30+84.82
Δ = 18° 46' 28" (RT)
D = 44° 04' 25"
R = 130.00'
T = 21.49'
L = 42.60'
E = 1.76'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 30+63.33
P.T. STA. = 31+05.93

CREEK ALIGNMENT

EXIST. CURVE CHAN01
PI STA. = 1+16.48
Δ = 26° 11' 08" (LT)
D = 50° 15' 34"
R = 114.00'
T = 26.51'
L = 52.10'
E = 3.04'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 0+89.97
P.T. STA. = 1+42.07

EXIST. CURVE CHAN02
PI STA. = 2+60.58
Δ = 19° 47' 45" (LT)
D = 76° 23' 40"
R = 75.00'
T = 13.09'
L = 25.91'
E = 1.13'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 2+47.50
P.T. STA. = 2+73.41

EXIST. CURVE CHAN03
PI STA. = 3+87.69
Δ = 41° 02' 00" (RT)
D = 52° 05' 13"
R = 110.00'
T = 41.16'
L = 78.78'
E = 7.45'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 3+46.52
P.T. STA. = 4+25.30

EXIST. CURVE CHAN04
PI STA. = 4+70.73
Δ = 33° 11' 39" (RT)
D = 121° 54' 21"
R = 47.00'
T = 14.01'
L = 27.23'
E = 2.04'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 4+56.72
P.T. STA. = 4+83.95

EXIST. CURVE CHAN05
PI STA. = 5+62.13
Δ = 30° 35' 45" (LT)
D = 28° 38' 52"
R = 200.00'
T = 54.71'
L = 106.80'
E = 7.35'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 5+07.43
P.T. STA. = 6+14.23

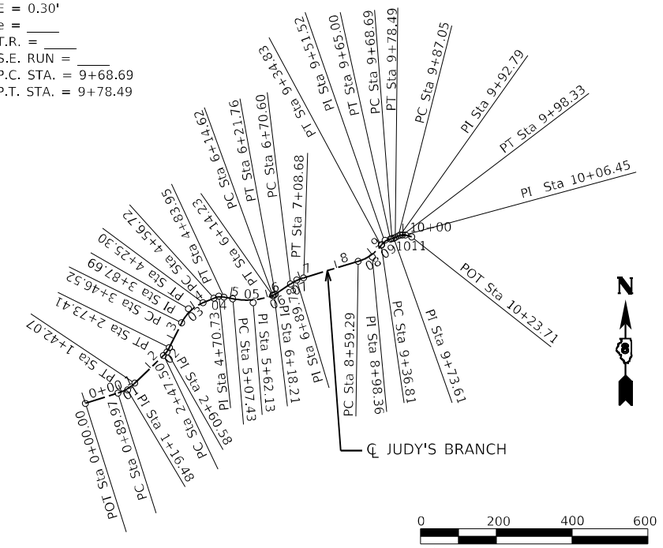
EXIST. CURVE CHAN06
PI STA. = 6+18.21
Δ = 13° 38' 56" (LT)
D = 190° 59' 09"
R = 30.00'
T = 3.59'
L = 7.15'
E = 0.21'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 6+14.62
P.T. STA. = 6+21.76

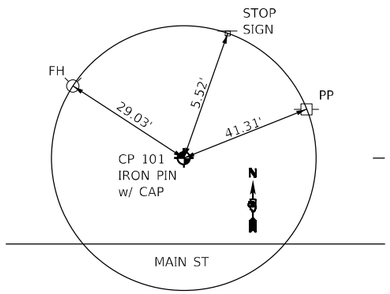
EXIST. CURVE CHAN07
PI STA. = 6+89.78
Δ = 16° 46' 56" (RT)
D = 44° 04' 25"
R = 130.00'
T = 19.18'
L = 38.08'
E = 1.41'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 6+70.60
P.T. STA. = 7+08.68

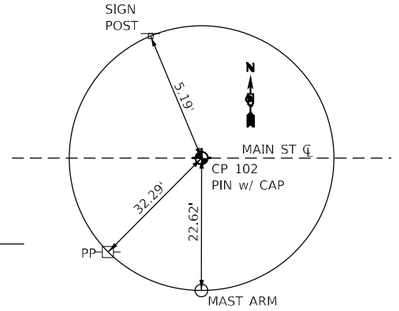
EXIST. CURVE CHAN08
PI STA. = 8+98.36
Δ = 36° 03' 56" (LT)
D = 47° 44' 47"
R = 120.00'
T = 39.07'
L = 75.54'
E = 6.20'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 8+59.29
P.T. STA. = 9+34.83

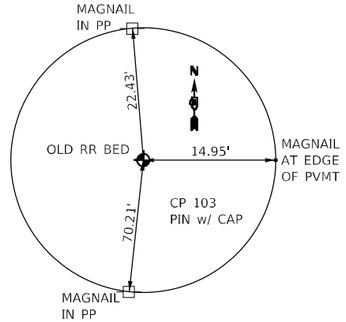
EXIST. CURVE CHAN09
PI STA. = 9+51.52
Δ = 40° 23' 00" (RT)
D = 143° 14' 22"
R = 40.00'
T = 14.71'
L = 28.19'
E = 2.62'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 9+36.81
P.T. STA. = 9+65.00

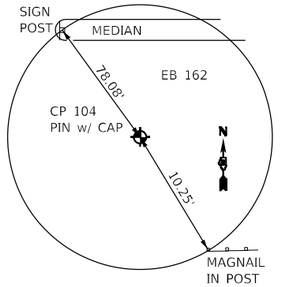
EXIST. CURVE CHAN10
PI STA. = 9+73.61
Δ = 14° 02' 36" (LT)
D = 143° 14' 22"
R = 40.00'
T = 4.93'
L = 9.80'
E = 0.30'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 9+68.69
P.T. STA. = 9+78.49

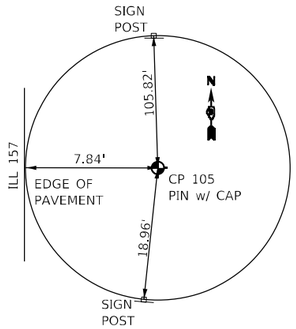


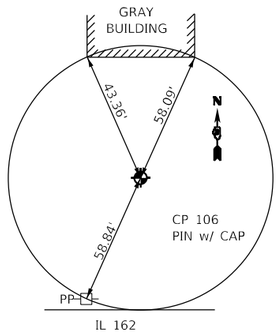


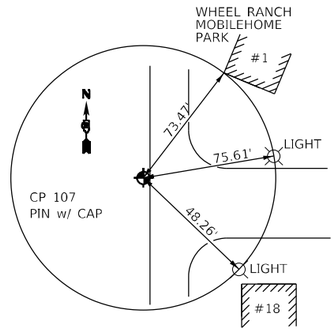


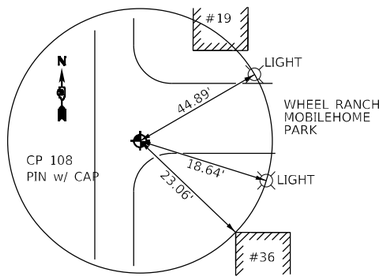


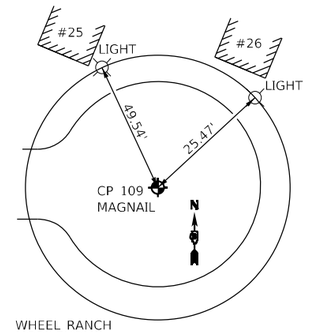


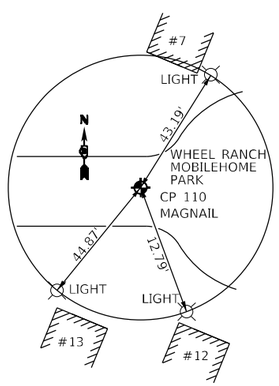


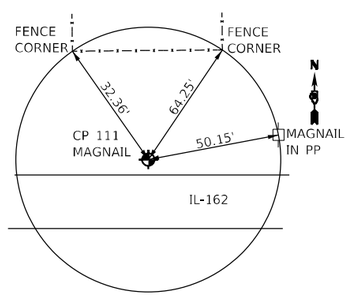


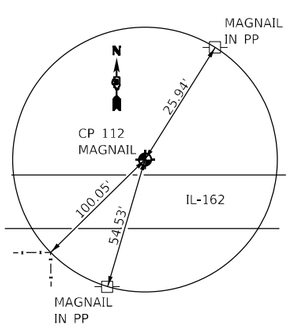


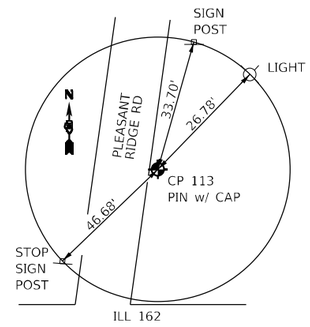


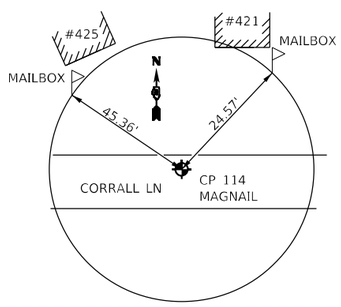


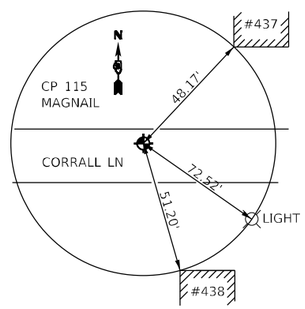


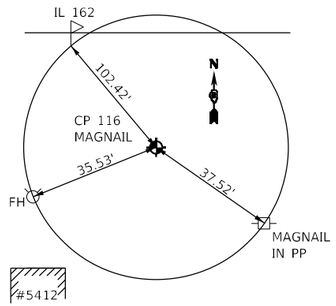


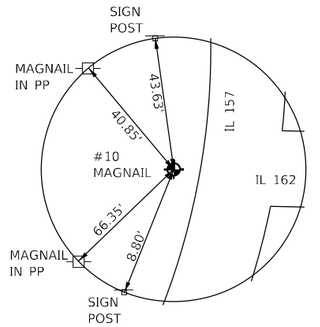


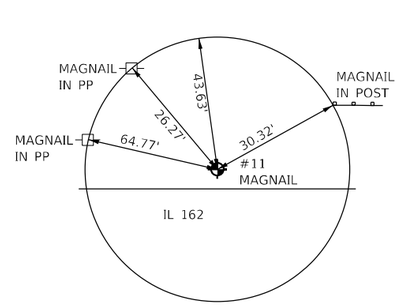












BENCHMARKS

BM1 — SET RR SPIKE IN POWER POLE @ WEST SIDE OF IL157, ± 465 SOUTH OF CARROLL LANE.
ELEV: 450.094

BM 2 — FOUND CUT "□" ON SW CORNER OF TRAFFIC SIGNAL CONTROLLER BOX FOUNDATION @ WEST SIDE OF IL157 AT MAIN STREET INTERSECTION (GLEN CARBON)
ELEV: 448.960

BM3 — SET RR SPIKE IN POWER POLE @ NW CORNER OF IL162 & ENTRANCE TO AMEREN IP SUBSTATION, ± 750 EAST OF IL157
ELEV: 448.960

BM 4A — FOUND CUT "□" (WITH +) ON TOP OF PARAPET WALL @ NW CORNER OF IL157/162 BRIDGE (SN060-0087) OVER JUDY BRANCH CREEK.
ELEV: 449.226

BM 5 — SET RR SPIKE IN POWER POLE @ NORTH SIDE OF IL162, ± 760' WEST OF IL157.
ELEV: 438.589

BM 6 — SET RR SPIKE IN POWER POLE @ SOUTH SIDE OF IL162 AND NW CORNER OF GLEN CARBON WATER TREATMENT PLANT.
ELEV: 438.231

BM 7 — SET RR SPIKE IN LIGHT POLE @ NE CORNER OF IL162 & PLEASANT RIDGE RD.
ELEV: 464.606

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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 6/26/2024	DATE -	REVISED -	

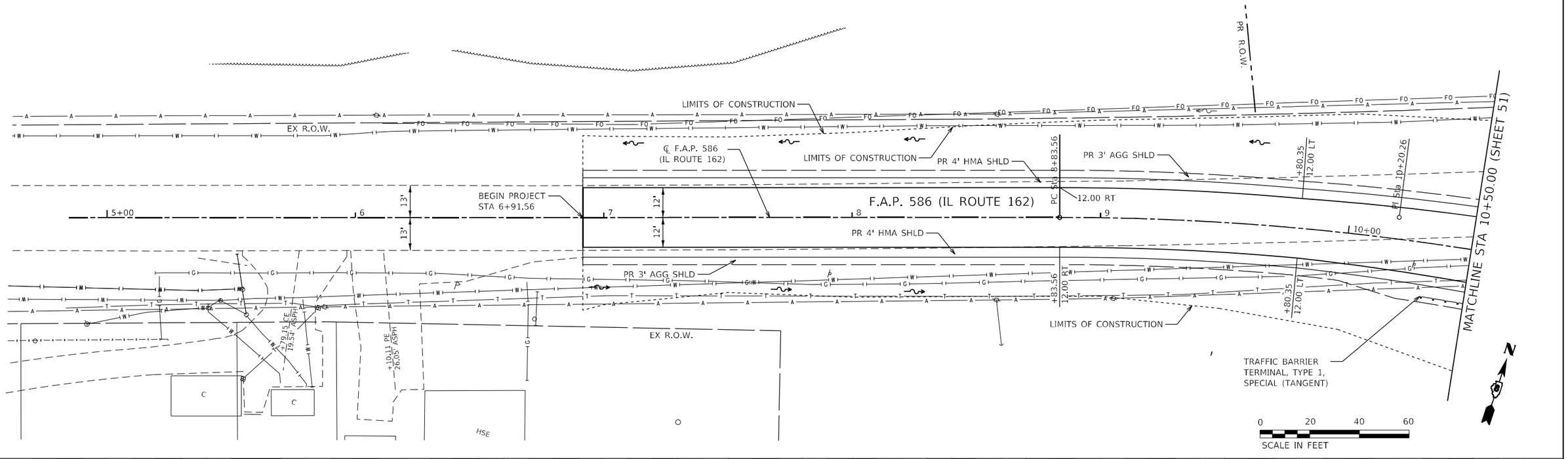
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

3 POINT TIES AND BENCHMARK INFORMATION

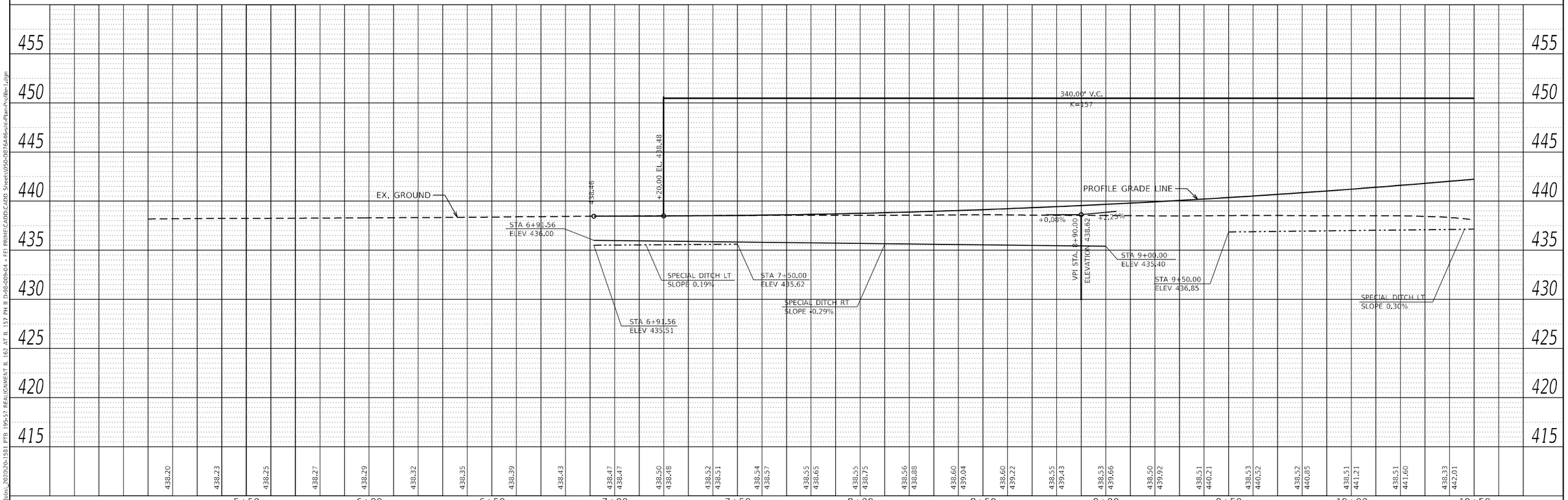
SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	51-1R	MADISON	296	49
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
AUGMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY



PROFILE
SURVEYED
PLOTTED
AUGMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY



MODEL: Default
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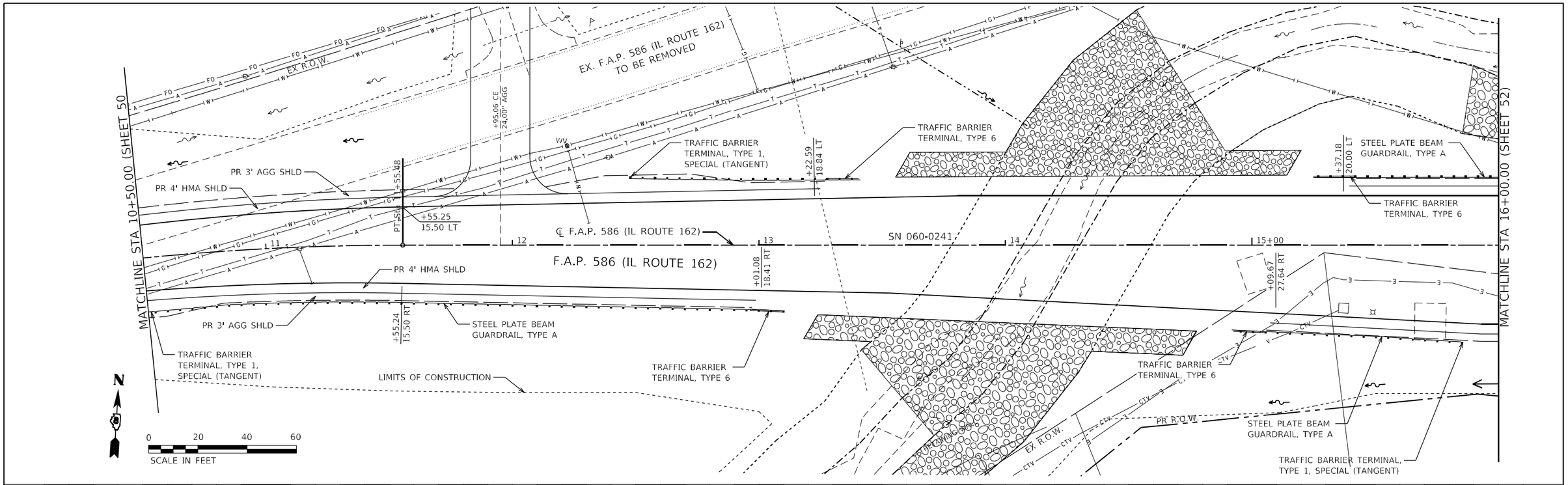
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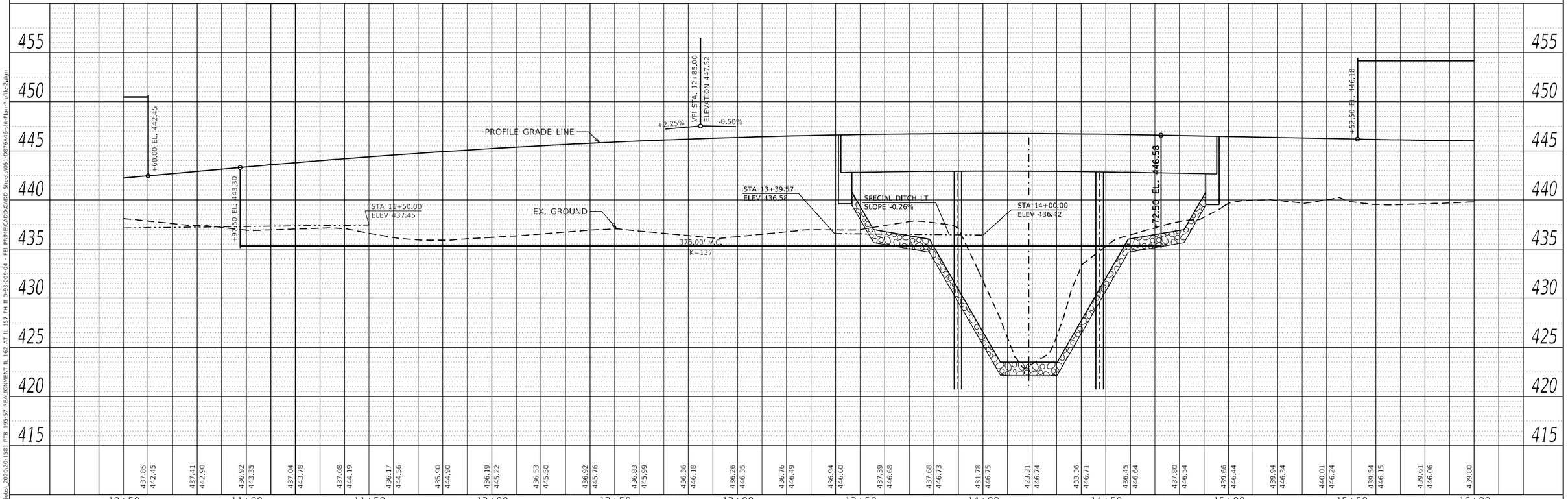
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 1 OF 11 SHEETS | STA. 6+91.56 | TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	50
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED / PLOTTED / CROSS SECTIONS CHECKED / R.O.W. STAKING NOTES / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECTIONS CHECKED / R.O.W. STAKING NOTES / NOTE BOOK / NO. / BY / DATE

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USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 2 OF 11 SHEETS | STA. 10+50.00 TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	51
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

586/592

MATCHLINE STATION 584+50 (SHEET 57)

MATCHLINE STA 16+00 (SHEET 51)

MATCHLINE STA 22+00 (SHEET 53)

MATCHLINE STATION 581+60 (SHEET 56)

FL JUDY BRANCH

TRAFFIC BARRIER TERMINAL, TYPE 5

TRAFFIC BARRIER TERMINAL, TYPE 6

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STEEL PLATE BEAM GUARDRAIL, TYPE A

PR 3" AGG SHLD

PR 4" HMA SHLD

PR 7" HMA SHLD

F.A.P. 586 (IL ROUTE 162)

℄ F.A.P. 586 (IL ROUTE 162)

STA 583+19.69 F.A.P. 592 (IL ROUTE 157)
STA 18+84.87 F.A.P. 586 (IL ROUTE 162)

℄ F.A.P. 592 (IL ROUTE 157)

CONCRETE CURB AND GUTTER (TYP)

EXIST. R.O.W.

EX R.O.W.

PR R.O.W.

LIMITS OF CONSTRUCTION

10' SHARED USE PATH

WHEEL RANCH PARK

℄ EXISTING F.A.P. 592 (IL ROUTE 157)

PI Sta 582+08.56
+94.69
32.00 RT

+72.28
20.00 LT

+78.38
+34.33

+43.42
32.00 LT

PI Sta 584+07.66

+77.55
35.52 RT

+61.95
32.00 LT

+81.91 CE
14.13° ASPH

+100.00 CE
20.82° ASPH

+94.52
32.00 LT

+53.25
32.00 RT

+78.99
34.57 RT

+04.58
30.38 RT

+88.08
20.00 RT

+20.04
35.19 RT

+94.59
20.00 RT

0 20 40 60
SCALE IN FEET

N

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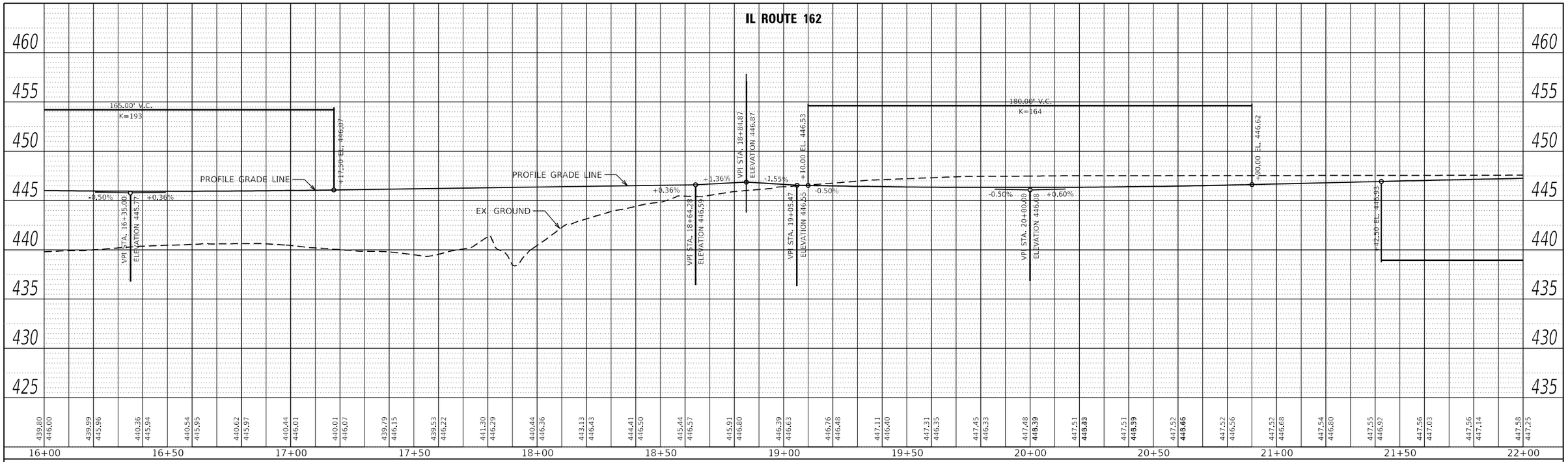
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN
F.A.P. 586 (IL ROUTE 162) & F.A.P. 592 (IL ROUTE 157)

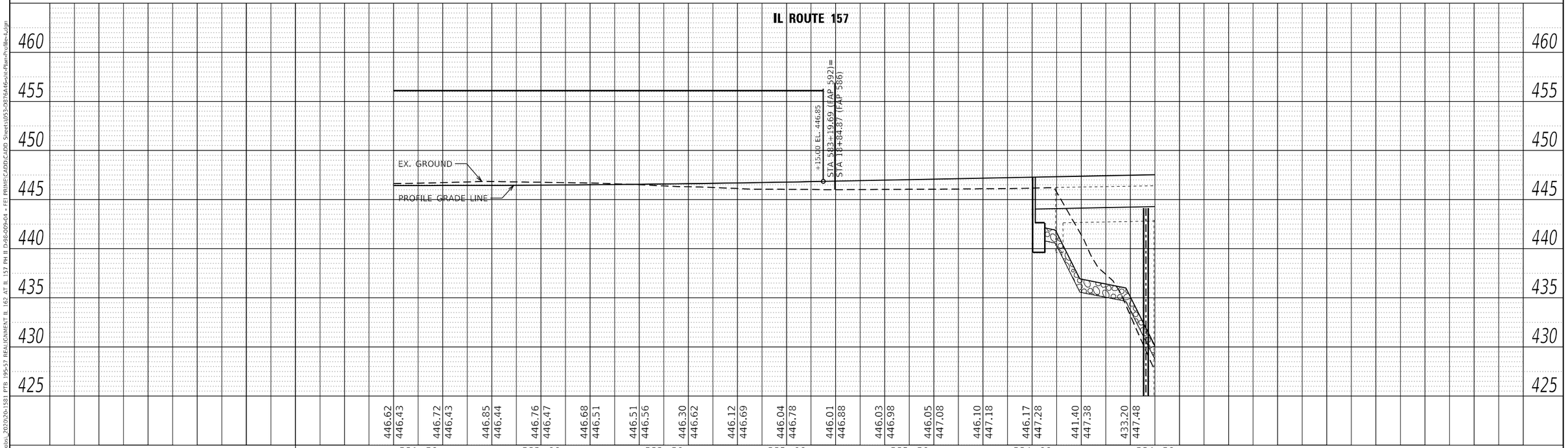
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	52
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



PLAN | SURVEYED | PLOTTED | DESIGN CHECKED | R.O.W. CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE



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WWW. FUHRMANN-ENG .COM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILES
F.A.P. 586 (IL ROUTE 162) & F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 4 OF 11 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	53
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
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DATE
BY

PROFILE
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STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

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MATCHLINE STATION 22+00 (SHEET 52)

*SEE SPECIAL PROVISIONS

PR R.O.W.

EX R.O.W.

PR 4" HMA SHLD

PR 3" AGG SHLD

PR 7" AGG SHLD

℄ F.A.P. 586 (IL ROUTE 162)

F.A.P. 586 (IL ROUTE 162)

PC Sta 23+97.24 +34.52 16.81 LT

+34.52 16.81 LT

+41.37 CE 9.85 AGG

24.3'

12'

12'

12'

END OF PROJECT STA. 26+53.58

+74.71 18.00 RT

+97.48 17.55 RT

LIMITS OF CONSTRUCTION

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

SINGLE PLATE BEAM GUARDRAIL, TYPE A

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

+01.37 PIPE 11.14" ASPH

CTV WM

0 20 40 60
SCALE IN FEET

N

22 23 24 25+00 26 27

465 460 455 450 445 440 435 430 425

VPI STA. 22+25.00
ELEVATION 447.43

+0.60% +0.30%

PROFILE GRADE LINE

EX. GROUND

+97.56 EL. 447.66

165.00' V.C.
K=557

+21.56 EL. 448.03

245.00' V.C.
K=159

+67.50 EL. 450.66

450.79

+0.30% +1.85%

VPI STA. 25+45.00
ELEVATION 448.40

447.58 447.25
447.61 447.34
447.62 447.43
447.61 447.51
447.59 447.59
447.55 447.65
447.50 447.72
447.53 447.78
447.55 447.84
447.58 447.90
447.61 447.96
447.71 448.02
447.80 448.09
447.95 448.18
448.08 448.30
448.28 448.45
448.47 448.62
448.71 448.81
448.96 449.04
449.26 449.28
449.56 449.55
449.86 449.85
450.16 450.18
450.52 450.52
450.89
451.27
451.65
452.02
452.38

22+00 22+50 23+00 23+50 24+00 24+50 25+00 25+50 26+00 26+50 27+00 27+50

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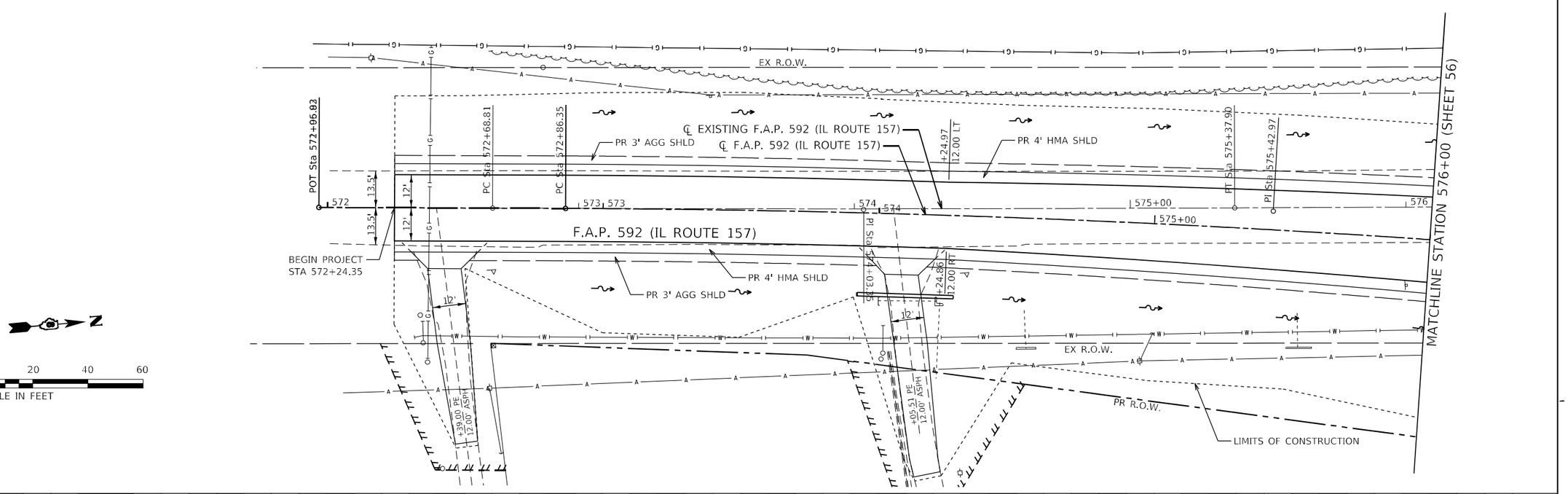
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 5 OF 11 SHEETS | STA. 22+00.00 | TO STA. 26+53.58

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	54
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

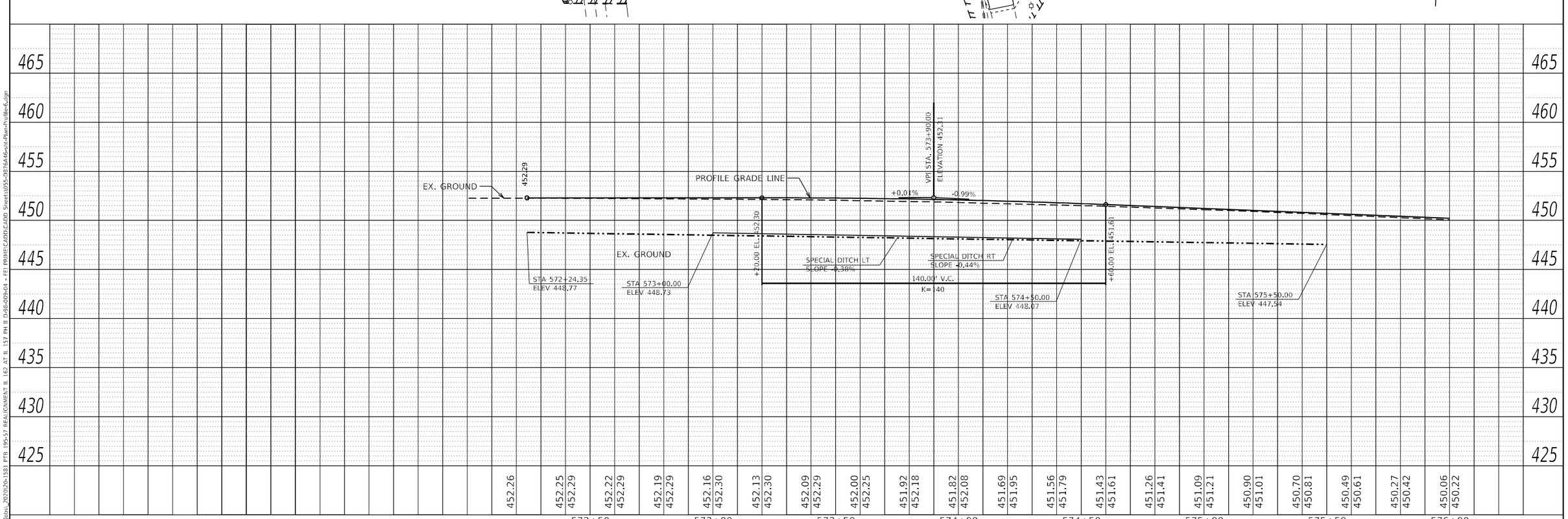
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NOTE BOOK
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BY
DATE



N

0 20 40 60
SCALE IN FEET

PROFILE
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R.O.W. CHECKED
NOTE BOOK
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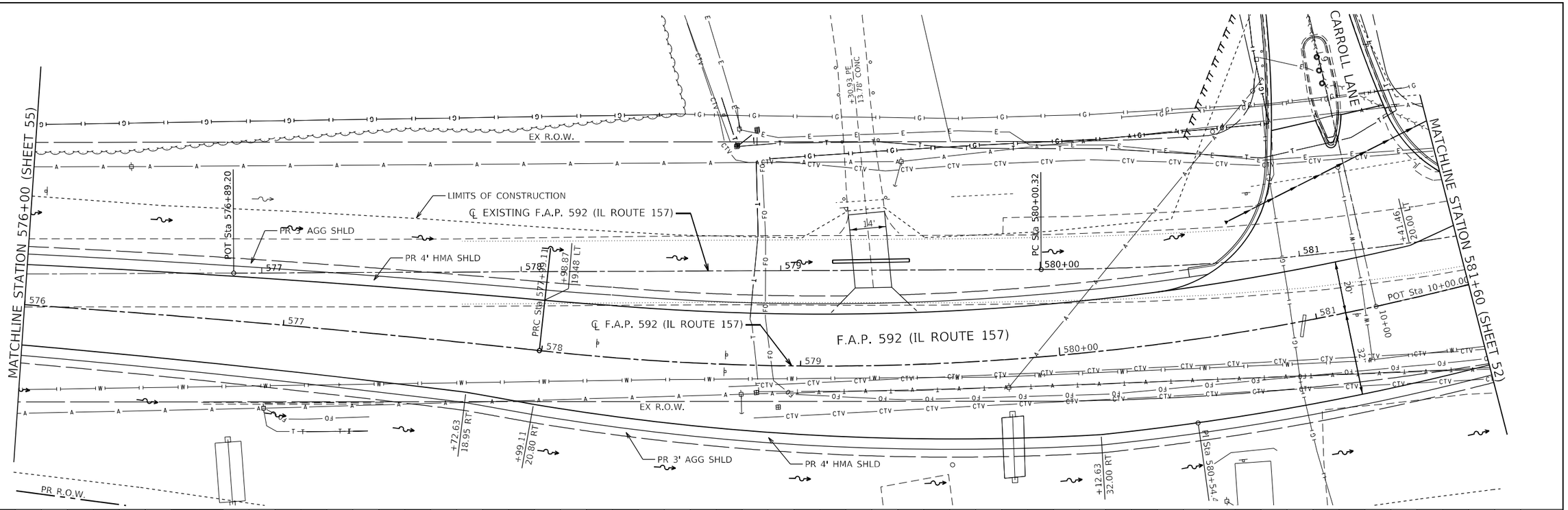
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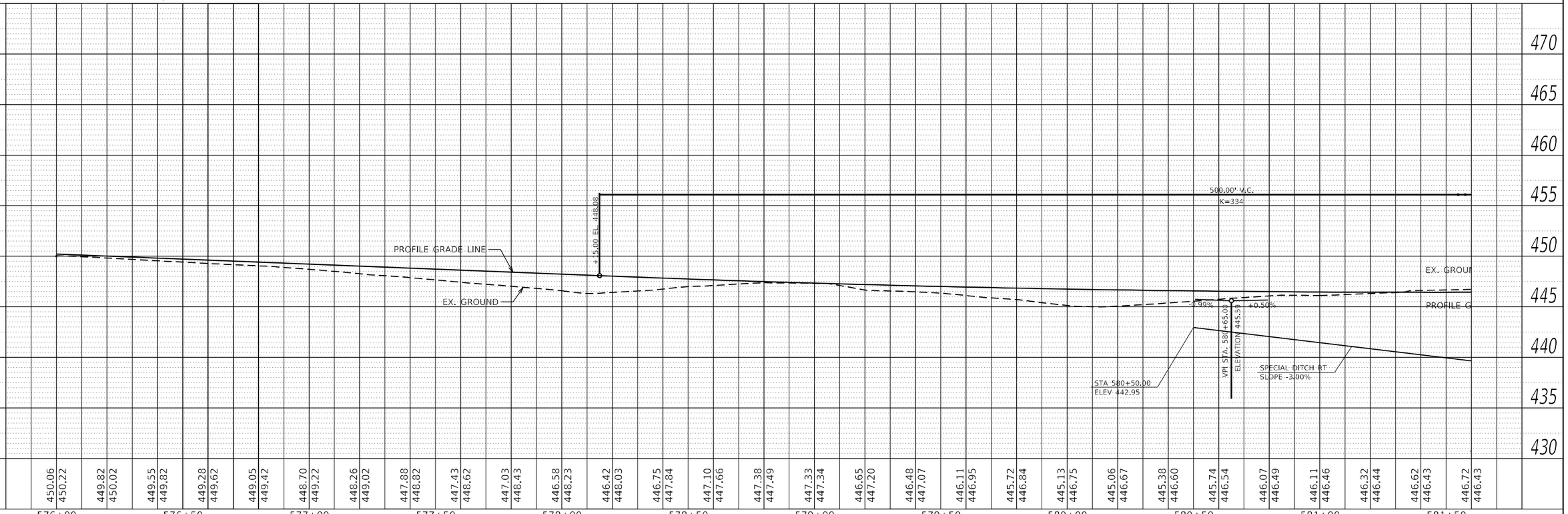
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 6 OF 11 SHEETS | STA. 572+24.35 | TO STA. 576+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	55
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			


MATCHLINE STATION 576+00 (SHEET 55)
MATCHLINE STATION 581+60 (SHEET 52)
EX R.O.W.
LIMITS OF CONSTRUCTION
℄ EXISTING F.A.P. 592 (IL ROUTE 157)
℄ F.A.P. 592 (IL ROUTE 157)
F.A.P. 592 (IL ROUTE 157)
PR 3" AGG SHLD
PR 4" HMA SHLD
POT Sta 576+89.20
PRC Sta 577+89.11
PC Sta 580+00.32
POT Sta 10+00.00
CARROLL LANE
+30.93 PE
13.78° CONC
+98.87
19.48 LT
+72.63
18.95 RT
+99.11
20.80 RT
+12.63
32.00 RT
+141.45
200.00 LT
PR R.O.W.


PROFILE GRADE LINE
EX. GROUND
+5.00 EL. 448.08
500.00' V.C.
K=334
-0.99%
+0.50%
VPI STA. 580+65.00
ELEVATION 445.59
STA 580+50.00
ELEV 442.95
SPECIAL DITCH RT
SLOPE -3.00%
470
465
460
455
450
445
440
435
430
576+00
576+50
577+00
577+50
578+00
578+50
579+00
579+50
580+00
580+50
581+00
581+50

| | | |

MATCHLINE STATION 584+50 (SHEET 52)

MATCHLINE STATION 590+20 (SHEET 58)

TRAFFIC BARRIER TERMINAL, TYPE 6

SINGLE PLATE BEAM GUARDRAIL, TYPE A

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

EX R.O.W.

PR R.O.W.

PR 5' HMA SHLD

℄ F.A.P. 592 (IL ROUTE 157)

F.A.P. 592 (IL ROUTE 157)

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

LONG-SPAN GURADRAIL OVER CULVERT, 18 FT 9 IN SPAN

TRAFFIC BARRIER TERMINAL, TYPE 2

POT Sta 586+06.50

+24.10 32.00 LT

+57.61 31.33' LT

32'

20'

+87.90 20.00 RT

+23.98 20.00 RT

+23.98 18.00 RT

+63.00 18.00 RT

+03.00 30.00 RT

+03.00 30.00 RT

585+00

586

587

588

589

590+00

CONCRETE CURB AND GUTTER (TYP)

PR 4' HMA SHLD

SINGLE PLATE BEAM GUARDRAIL, TYPE A

TRAFFIC BARRIER TERMINAL, TYPE 6

EX R.O.W.

LIMITS OF CONSTRUCTION

SECTION 51-1R

PR R.O.W.

TRAFFIC BARRIER TERMINAL, TYPE 2

15'

24'

12'

12'

14'

+41.80 PE 14.33' AGG

+84.09' CE 79.89' ASPH

+36.61 CE 14.72' AGG

+72.68 FE 13.75' GRASS

+93.32 FE 11.99' EARTH

+99.68 CE 17.52' ASPH

13.5'

STEEL PLATE BEAM GUARDRAIL, TYPE A

LONG-SPAN GURADRAIL OVER CULVERT, 18 FT 9 IN SPAN

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

PR R.O.W.

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

N

0 20 40 60

SCALE IN FEET

460
455
450
445
440
435
430
425
420

STA 584+70.00 (FAP 592 = STA 74+96.35 JUDY'S BRANCH

150.00' V.C. K=162

+10.00 EL. 448.84

+60.00 EL. 450.29

VPI STA. 588+75.00 ELEVATION 450.51

+1.43%

+0.60%

PROFILE GRADE LINE

EX. GROUND

+0.50%

+1.43%

VPI STA. 587+85.00 ELEVATION 449.22

STA 589+50.00 ELEV 446.93

SPECIAL DITCH LT SLOPE 0.30%

STA 590+00.00 ELEV 446.99

425.51 447.58
426.46 447.68
436.20 447.78
442.90 447.88
446.80 447.98
446.95 448.09
447.19 448.19
447.34 448.29
447.48 448.39
447.65 448.49
447.82 448.59
448.00 448.69
448.17 448.79
448.32 448.90
448.48 449.02
448.72 449.17
449.04 449.35
449.35 449.55
449.65 449.77
449.94 450.02
450.20 450.29
450.46 450.54
450.58 450.66
450.69 450.77
450.72 450.80
450.70 450.78
450.64 450.72
450.55 450.63
450.46 450.54

584+50 585+00 585+50 586+00 586+50 587+00 587+50 588+00 588+50 589+00 589+50 590+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 8 OF 11 SHEETS | STA. 584+50.00 | TO STA. 590+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	57
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592

MATCHLINE STATION 590+20 (SHEET 57)

+61.79 CE
17.59' ASPH

15"PIPE, CLASS D, TY 1

EX R.O.W.

18'

CONCRETE CURB AND GUTTER B6.24

PR 5' HMA SHLD

F.A.P. 592 (IL ROUTE 157)

591

592

593

POT Sta 592+98.28

END OF PROJECT STA. 592+82.47

℄ F.A.P. 592 (IL ROUTE 157)

13'

EX R.O.W.

PR 5' HMA SHLD

LIMITS OF CONSTRUCTION

PR R.O.W.

EX R.O.W.

EXIST. R.O.W.

℄ MAIN STREET

EX R.O.W.

EX R.O.W.

+97.71 FE
14.85' ASPH

MAIN

55.24 FE
6.00' ASPH

16'

11'

11.5'

13'

594

POT Sta 594+71.11

N

0 20 40 60
SCALE IN FEET

PROFILE GRADE LINE

EX GROUND

VPI STA 592+75.00
ELEVATION 452.04

+1.20%

-0.48%

452.01

SPECIAL DITCH LT
SLOPE 0.30%

STA 591+50.00
ELEV 447.53

SPECIAL DITCH RT
SLOPE 0.50%

STA 592+00.00
ELEV 447.99

590+50	591+00	591+50	592+00	592+50	593+00	593+50	594+00	594+50
450.46 / 450.54	450.38 / 450.47	450.34 / 450.42	450.29 / 450.42	450.27 / 450.47	450.35 / 450.51	450.55 / 450.67	450.74 / 450.89	450.94 / 451.10	451.16 / 451.30	451.38 / 451.42	451.60 / 451.66	451.78 / 451.90	452.01 / 452.02	452.26	452.49	452.68	452.85	453.04	453.20	453.36	453.50	453.65

465 460 455 450 445 440

PLAN
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NOTE BOOK
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BY
DATE

PROFILE
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NOTE BOOK
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PLOT DATE = 12/18/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 9 OF 11 SHEETS | STA. 590+20.00 | TO STA. 592+82.47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	58
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

586/592

PROPOSED FOLD DOWN BOLLARD
TERMINAL MARKER - DIRECT APPLIED
STA 15+44.24, 0' RT
PROPOSED BOLLARDS (2)
STA 15+47.71, 6' LT
STA 15+40.00, 6' RT
SEE DETAILS

STA. 15+49.35
END SHARED USE PATH

MCT PARKING LOT

F.A.P. 586
(IL ROUTE 162)

F.A.P. 592
(IL ROUTE 157)

10' WIDE SHARED USE PATH

℄ SHARED
USE PATH

PR R.O.W.

LIMITS OF CONSTRUCTION

SCALE IN FEET
0 20 40 60

PROFILE GRADE LINE

EX. GROUND

VPI STA. 10+49.94
ELEVATION 446.52

VPI STA. 10+55.54
ELEVATION 446.65

EOP 446.55

VPI STA. 10+50.54
ELEVATION 446.57

VPI STA. 10+63.50
ELEVATION 447.03

VPI STA. 12+75.00
ELEVATION 446.02

VPI STA. 11+70.00
ELEVATION 443.62

+5.00 EL. 447.88
+105.00 EL. 447.84
60.00' V.C.

100.00' V.C.
+20.00 EL. 444.75
+20.00 EL. 444.97

-0.70%
-6.00%
-0.47%
+0.47%
-2.25%
+2.70%
445.77

10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50
442.28	441.54	436.39	438.13 446.87	439.23 447.11	439.38 447.20	425.82 447.29	424.82 447.39	437.08 447.48	437.00 447.57	438.68 447.67	443.28 447.76	446.39 447.85	446.85 447.89	446.66 447.76	445.95 447.45	445.91 447.00	445.85 446.55	445.56 446.10	445.25 445.65	444.61 445.20	443.24 444.75	441.24 444.40	442.62 444.24	441.22 444.29	440.79 444.53	442.50 444.97	445.26 445.51	445.91	446.16

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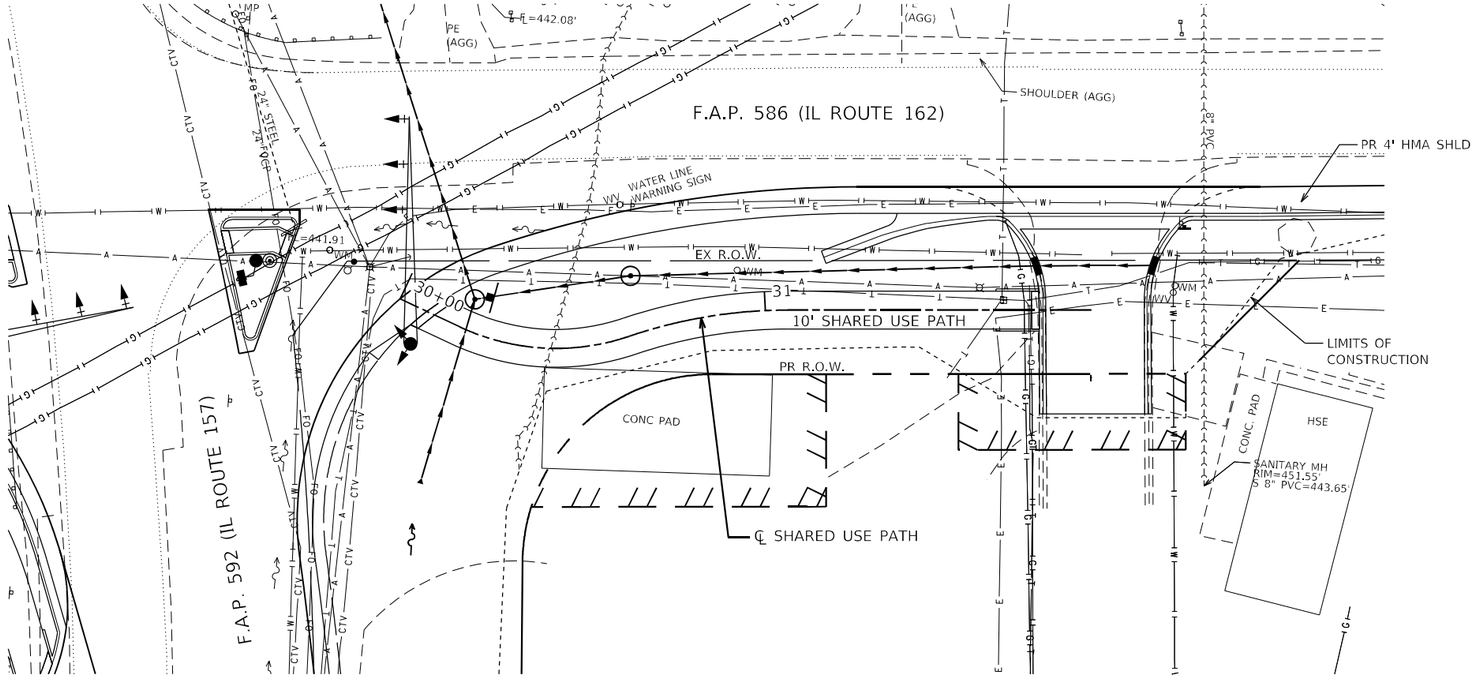
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DEPARTMENT OF TRANSPORTATION

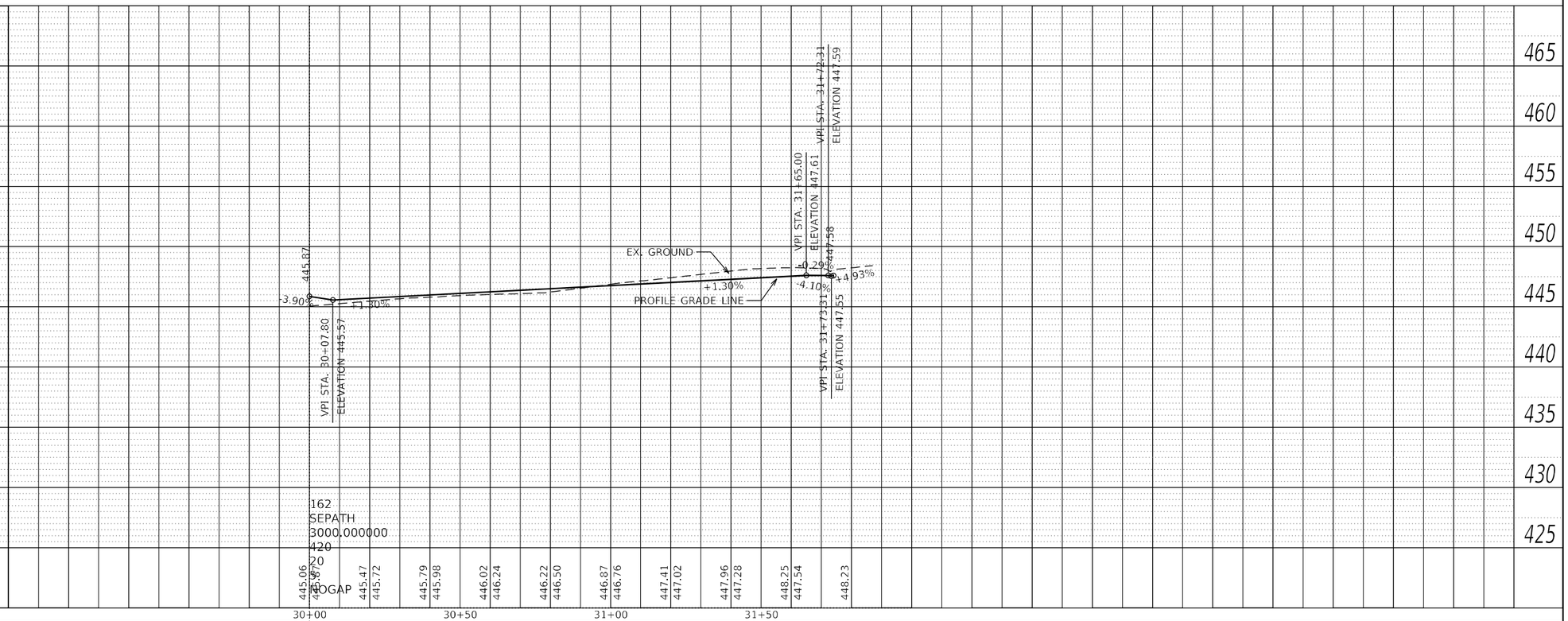
PLAN AND PROFILE
F.A.P. 592 (IL ROUTE 157) SHARED USE PATH

SCALE: 1"=20' | SHEET 10 OF 11 SHEETS | STA. 10+00.00 | TO STA. 15+49.35

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	59
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592





PLAN
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE

MODEL: Default
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

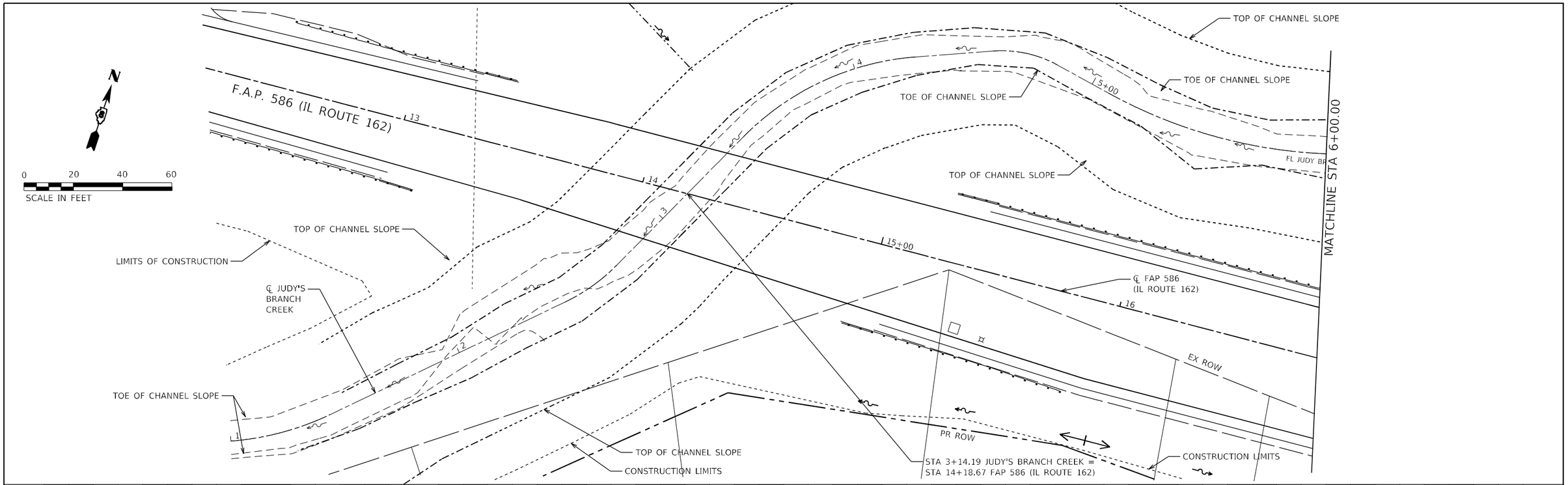
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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
F.A.P. 586 (IL ROUTE 162) SHARED USE PATH

SCALE: 1"=20' | SHEET 11 OF 11 SHEETS | STA. 30+00.00 | TO STA. 31+72.31

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	60
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

PROFILE — SURVEYED / PLOTTED / CHECKED / E.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

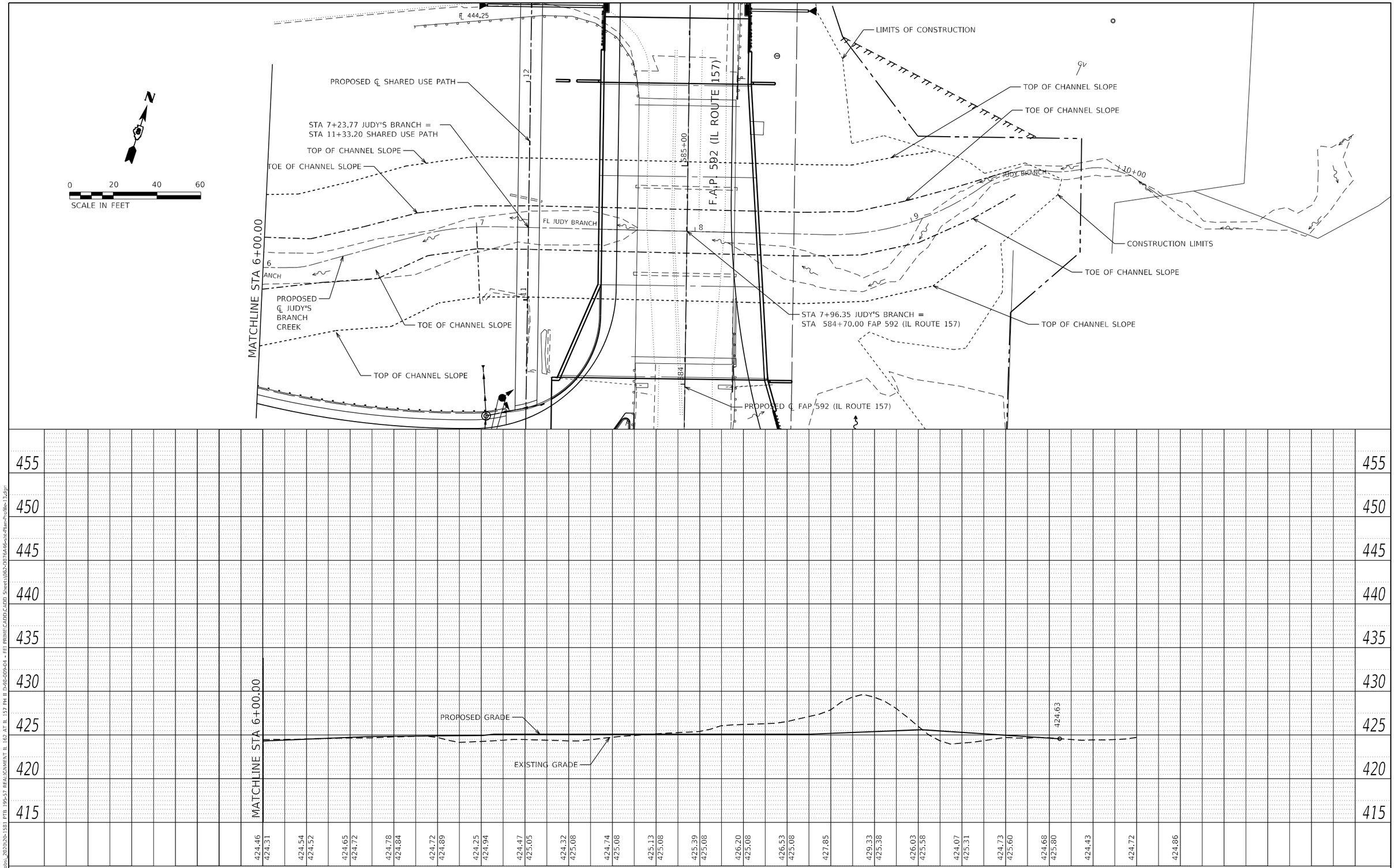
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
JUDY'S BRANCH CREEK

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 1+00.00 | TO STA. 6+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	61
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



PLAN — SURVEYED | PLOTTED | GRADE CHECKED | R.O.W. CHECKED | AS-BUILT CHECKED | R.O. WAY CHECKED | NOTE BOOK | NO. | BY | DATE | CADD FILE NAME

PROFILE — SURVEYED | PLOTTED | GRADE CHECKED | DRA. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

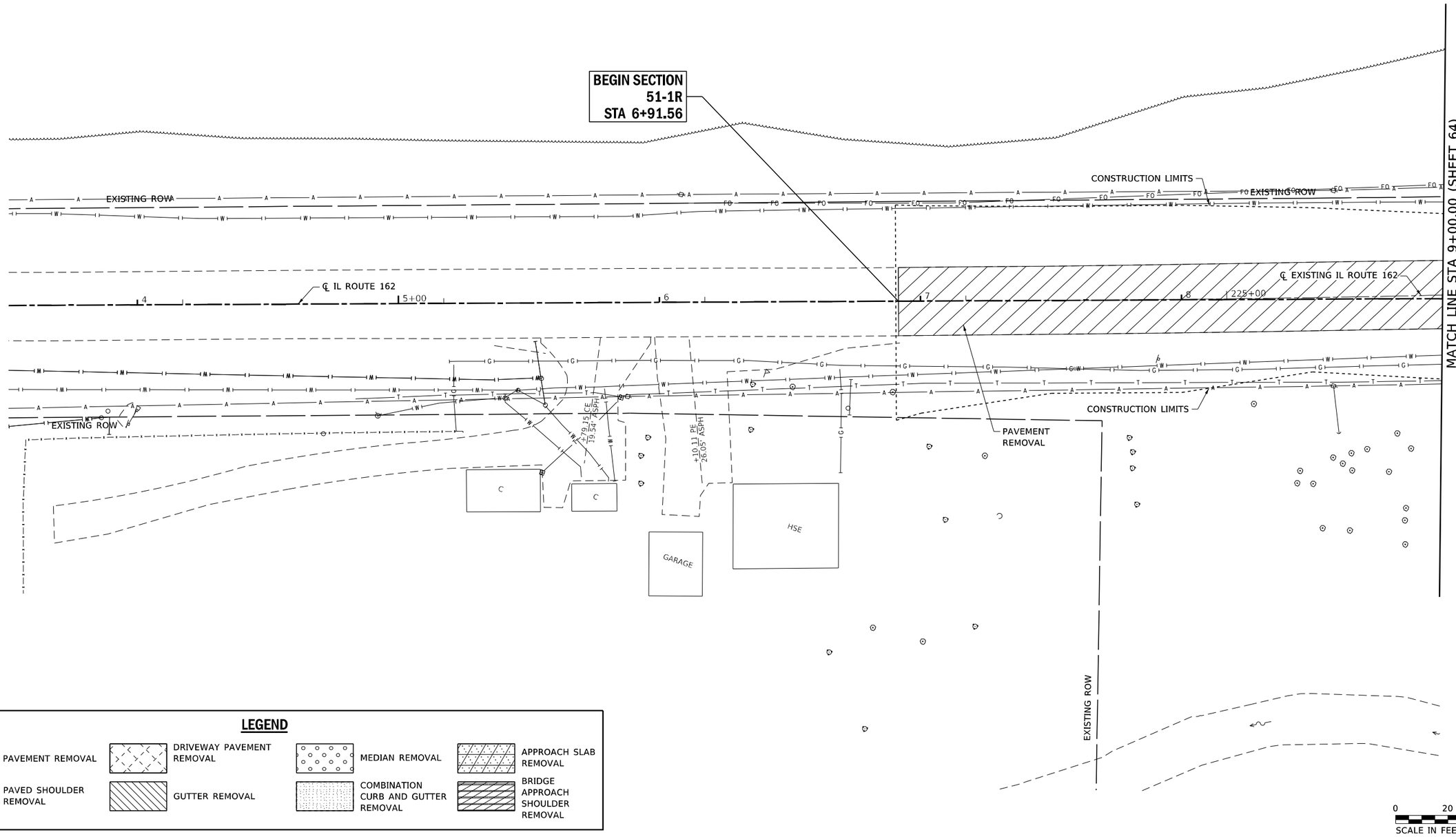
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
JUDY'S BRANCH CREEK

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 6+00.00 | TO STA. 10+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	62
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60
SCALE IN FEET

FILE NAME: X:\Production\Files\2020\420-8018\CADD\CADD Sheets\DB76A46-sht-Removal.dgn

LOCHMUELLER GROUP
3928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.8400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

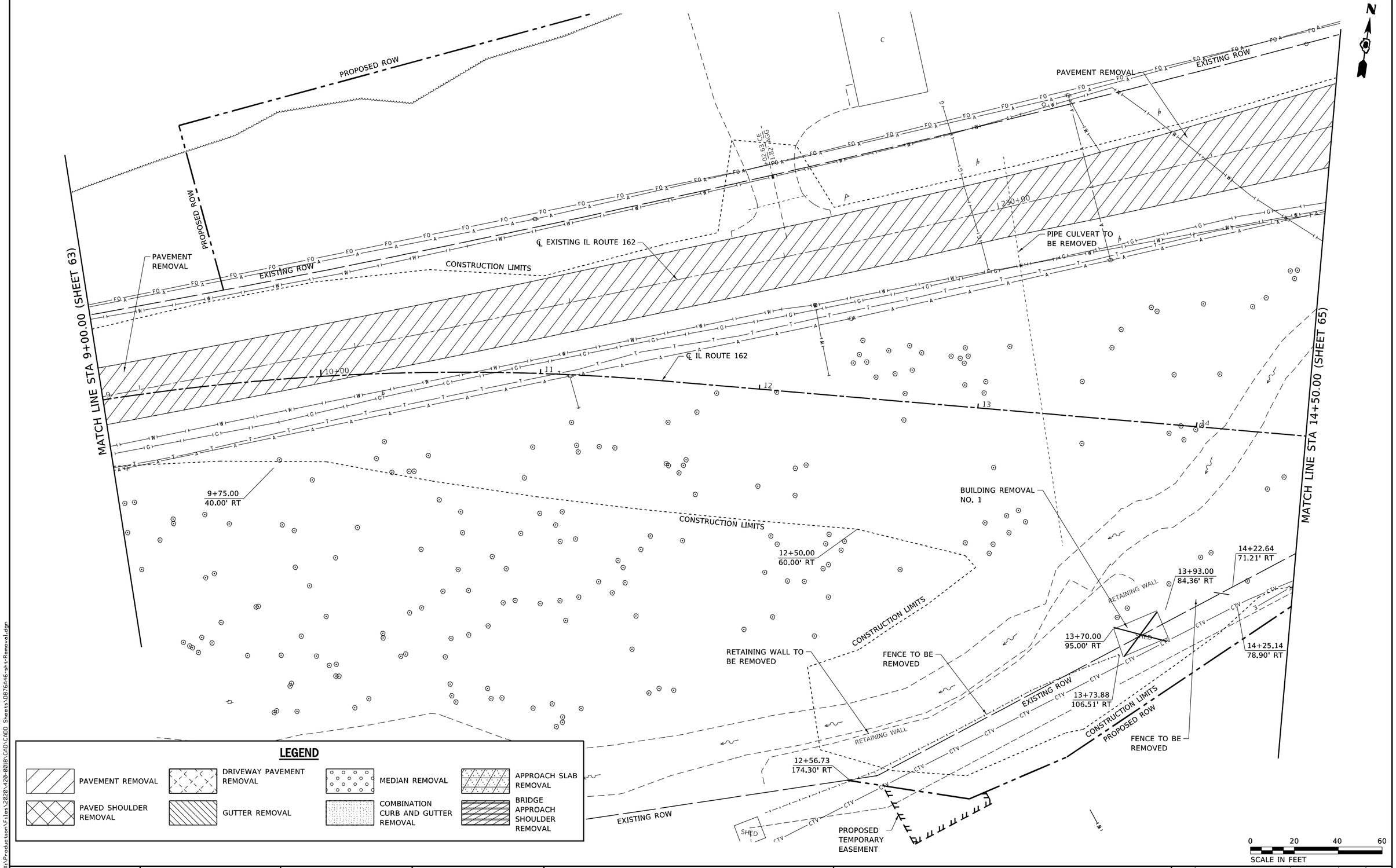
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 1 OF 10 SHEETS | STA 4+00.00 TO STA 9+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	63
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

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LOCHMUELLER GROUP
1928 Sirk Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 02	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 2 OF 10 SHEETS | STA 9+00.00 TO STA 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	64
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

MATCH LINE STA 233+50.00

EXISTING ROW

CONSTRUCTION LIMITS

PAVEMENT REMOVAL

℄ EXISTING IL ROUTE 162

MATCH LINE STA 585+00.00

℄ IL ROUTE 157

EXISTING ROW

FL JUDY BRANCH

584+20.00
80.00' RT

PIPE CULVERT TO BE REMOVED

CONSTRUCTION LIMITS

REMOVAL OF EXISTING STRUCTURE

APPROACH SLAB REMOVAL

+09.37

+09.32

+96.07

+89.36

+94.81

HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL

PAVEMENT REMOVAL

RETAINING WALLS TO BE REMOVED

PIPE CULVERT TO BE REMOVED

+70.70

PIPE CULVERT TO BE REMOVED

GUARDRAIL TO BE REMOVED

EXISTING ROW

+70.99

+81.91 CE
14 13" ASPH

BRIDGE APPROACH SHOULDER REMOVAL

MATCH LINE STA 14+50.00 (SHEET 64)

MATCH LINE STA 20+00.00 (SHEET 66)

BUILDING REMOVAL NO. 2

BUILDING REMOVAL NO. 3

15+00

16

17

℄ IL ROUTE 162

18

19

16+66.86
26.91' RT

GUARDRAIL TO BE REMOVED

PAVED SHOULDER REMOVAL

PIPE CULVERT TO BE REMOVED

EXISTING ROW

FENCE TO BE REMOVED

RETAINING WALL TO BE REMOVED

EXISTING ROW

CONSTRUCTION LIMITS

PROPOSED ROW

+12.87

PAVEMENT REMOVAL

+28.00

EXISTING ROW

EXISTING ROW

STA 583+19.69 (IL ROUTE 157)
STA 18+84.87 (IL ROUTE 162)

CONSTRUCTION LIMITS

PIPE CULVERT TO BE REMOVED

PAVEMENT REMOVAL

MATCH LINE STA 582+00.00

PROPOSED ROW

LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60
SCALE IN FEET

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\0876A46-sht-Removal.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 03	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

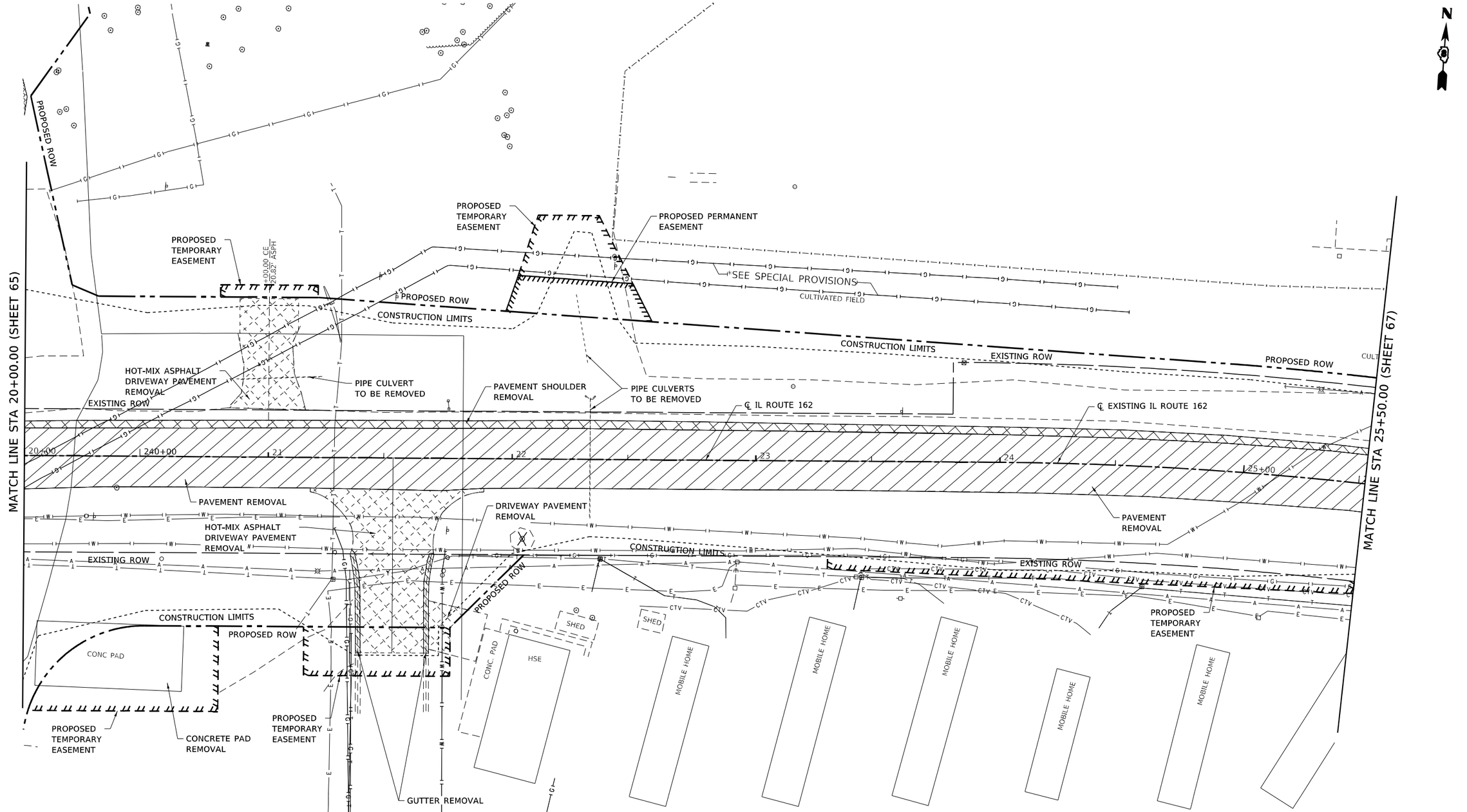
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 3 OF 10 SHEETS | STA 14+50.00 TO STA 20+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	65
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592



LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60
SCALE IN FEET

LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME = Joe.Kovarik	DESIGNED - ESW	REVISED -
MODEL NAME = REM PLAN 04	DRAWN - LEC	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BRM	REVISED -
PLOT DATE = 3/8/2024	DATE - 10/8/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 4 OF 10 SHEETS | STA 20+00.00 TO STA 25+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	66
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

FILE NAME: \\loch-joe\root\Production\Files\2020\420-0018\CADD\CADD Sheets\0876A46-sht-Removal.dgn

MATCH LINE STA 25+50.00 (SHEET 66)

PROPOSED TEMPORARY EASEMENT

CONSTRUCTION LIMITS

NVATED FIELD

PROPOSED ROW

PAVED SHOULDER REMOVAL

PAVEMENT REMOVAL

CONSTRUCTION LIMITS

GUARDRAIL TO BE REMOVED

MOBILE HOME

MOBILE HOME

5" DEEP ABANDON CINDER BLOCK FOUNDATION

HSE

+41.37 CE 6"&5" AGG

+01.37 PE 11.14" ASPH

75.94 PE 13.32" AGG

END SECTION 51-1R STA 26+74.52

EXISTING ROW

EXISTING ROW

EXISTING ROW

EXISTING ROW

℄ IL ROUTE 162

℄ EXISTING IL ROUTE 162

45+00

26

27

28

29

30+00

25

N

LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60

SCALE IN FEET

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\D076A46-sht-Removal.dgn

LOCHMUELLER GROUP
1928 S-A Bradley Pk. South Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 05	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 5 OF 10 SHEETS | STA 25+50.00 TO STA 30+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	67
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

N

BEGIN SECTION
51-1R
STA 572+24.35

EXISTING ROW

CONSTRUCTION LIMITS

PAVEMENT REMOVAL

℄ IL ROUTE 157

572

573

574

575+00

575+00

576

℄ EXISTING IL ROUTE 157

EXISTING ROW

CONSTRUCTION LIMITS

PAVEMENT REMOVAL

PIPE CULVERT
TO BE REMOVED

HOT-MIX ASPHALT
DRIVEWAY PAVEMENT
REMOVAL

EXISTING ROW

PROPOSED ROW

CONSTRUCTION LIMITS

EXISTING ROW

CONSTRUCTION LIMITS

PROPOSED ROW

PROPOSED
TEMPORARY
EASEMENT

HOT-MIX ASPHALT
DRIVEWAY PAVEMENT
REMOVAL

PROPOSED
TEMPORARY
EASEMENT

MATCH LINE STA 576+50.00 (SHEET 69)

LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60
SCALE IN FEET

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\DB76A46-sht-Removal.dgn

LOCHMUELLER GROUP
3928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 06	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

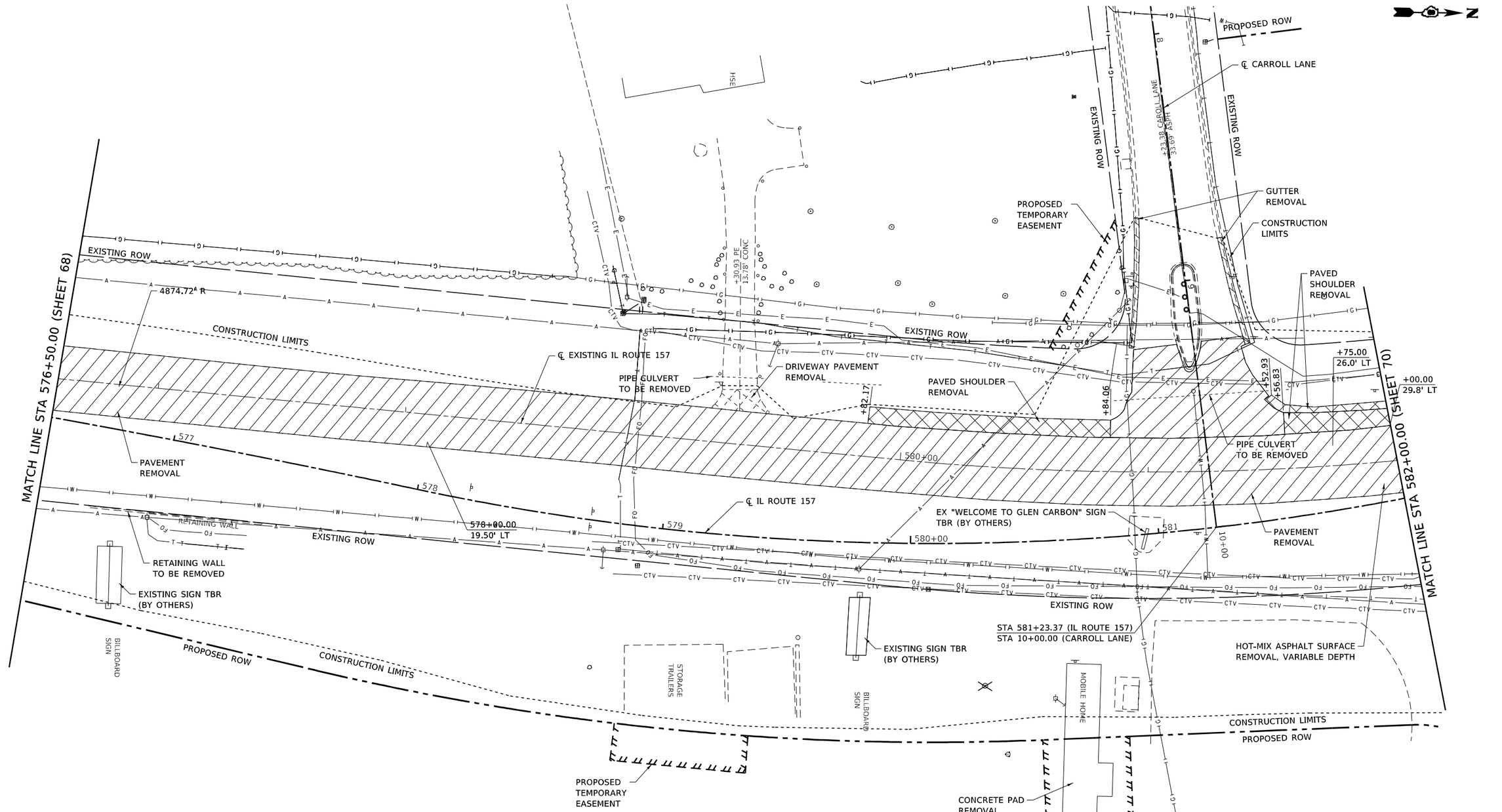
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 6 OF 10 SHEETS | STA 572+00.00 TO STA 576+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	68
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60
SCALE IN FEET

FILE NAME: X:\Production\Files\20220\420-0018\CAD\CADD Sheets\D876A46-sht-Removal.dgn

LOCHMUELLER GROUP
1928 S.N. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= JordanPettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 07	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/18/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 7 OF 10 SHEETS | STA 576+50.00 TO STA 582+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	69
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

MATCH LINE STA 233+50.00

MATCH LINE STA 13+72.60

COMBINATION CURB AND GUTTER REMOVAL

15+00

MATCH LINE STA 13+72.60

EXPOSED GRAVEL/ ASPHALT SURFACE TO BE REMOVED AND REPLACED WITH SOIL

CONSTRUCTION LIMITS

EXISTING ROW

MEDIAN REMOVAL

PAVEMENT REMOVAL

PROPOSED ROW

14

+56.91 CE
269.83' AGG

PROPOSED PERMANENT EASEMENT

PROPOSED TEMPORARY EASEMENT

GUARDRAIL TO BE REMOVED

BRIDGE APPROACH SHOULDER REMOVAL

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

COMBINATION CURB AND GUTTER REMOVAL

EXISTING ROW

GUARDRAIL TO BE REMOVED

+69.46

225+00

+22.50

+30.70

+43.13

+50.22

APPROACH SLAB REMOVAL 585+00

℄ EXISTING IL ROUTE 157

℄ IL ROUTE 157

585

586

587

588

589

590+00

GUARDRAIL TO BE REMOVED

+30.63

+43.21

+68.97

PAVEMENT REMOVAL

BRIDGE APPROACH SHOULDER REMOVAL

EXISTING ROW

EX USGS GAGE TBR (BY OTHERS)

PROPOSED ROW

PROPOSED TEMPORARY EASEMENT

CONSTRUCTION LIMITS

±41.80 PE
14.33' AGG

PROPOSED TEMPORARY EASEMENT

+84.88 CE
17.89' VSR

HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL

+36.61 CE
14.72' AGG

+72.68 FE
13.75' GRASS

PAVED SHOULDER REMOVAL

PROPOSED PERMANENT EASEMENT

CONSTRUCTION LIMITS

GUARDRAIL TO BE REMOVED

PROPOSED PERMANENT EASEMENT

DRIVEWAY PAVEMENT REMOVAL

GUARDRAIL TO BE REMOVED

PIPE CULVERT TO BE REMOVED

HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL

PROPOSED TEMPORARY EASEMENT

+96.08 LE
17.52' ASPH

EXISTING ROW

PAVEMENT REMOVAL

PIPE CULVERT TO BE REMOVED

GUTTER REMOVAL

EXISTING ROW

+93.32 FE
11.09' EARTH

PROPOSED ROW

PROPOSED PERMANENT EASEMENT

MATCH LINE STA 585+00.00 (SHEET 69)

MATCH LINE STA 590+50.00 (SHEET 71)

LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

0 20 40 60

SCALE IN FEET

FILE NAME: X:\Production\Files\2020\420-8018\CAD\CADD Sheets\DB76A46-sht-Removal.dgn

LOCHMUELLER GROUP
3928 Sta Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.8400

USER NAME	= Jordan.Pettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 08	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/18/2024	DATE	- 10/8/2021	REVISED	-

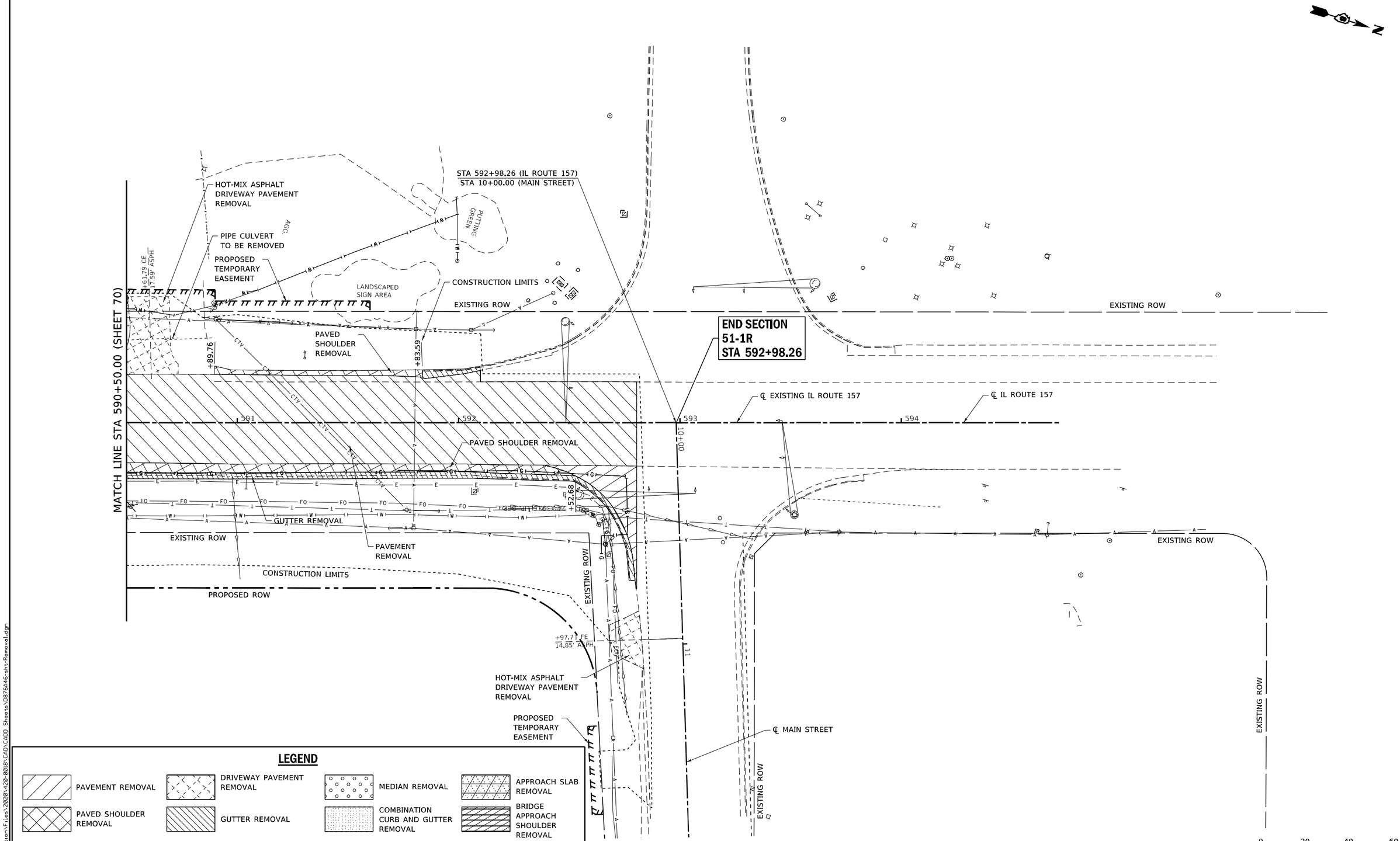
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 8 OF 10 SHEETS | STA 585+00.00 TO STA 590+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	70
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- MEDIAN REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL

FILE NAME: X:\Production\Files\2020\420-001B\CAD\CADD Sheets\D876A46-sht-Removal.dgn

LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= REM PLAN 09	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 9 OF 10 SHEETS | STA 590+50.00 TO STA 595+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	71
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

PROPOSED ROW
EXISTING IL ROUTE 162
EXISTING ROW
C
226+54.58
31.69' RT
228+35.01
54.43' RT
229+29.12
36.21' RT
230+22.18
61.11' RT
230+59.44
52.60' RT
232+89.95
51.25' RT
TREE REMOVAL
(ACRES)
BY OTHERS
226+52.93
46.60' RT
229+06.14
128.44' RT
230+06.95
198.10' RT
231+59.07
193.35' RT
231+82.24
162.47' RT
232+51.88
244.98' RT
233+68.75
260.75' RT
LIMITS OF TREE
REMOVAL (ACRES)
SHED
RETAINING WALL
TREE REMOVAL (ACRES)
PROPOSED
IL ROUTE 162
PROPOSED ROW
CONSTRUCTION
LIMITS
HSE
DECK
GARAGE
CARPORT
CONC.
SLAB
STORM
SHELTER
22 UNITS
9 UNITS
26 UNITS
12 UNITS
35 UNITS
585+05.00
110.00' RT
585+18.00
50.00' RT
584+84.00
147.00' RT
584+35.00
147.00' RT
584+05.00
135.00' RT
584+97.00
60.00' LT
584+56.00
40.00' LT
584+30.00
15.00' RT
584+10.00
45.00' LT
584+20.00
80.00' RT
583+79.34
24.63' LT
583+42.26
57.10' RT
583+48.44
57.00' LT
583+19.96
71.60' LT
TREE REMOVAL (ACRES)
LIMITS OF TREE
REMOVAL (ACRES)
30 UNITS
(BY OTHERS)
6 UNITS
(BY OTHERS)
8 UNITS
(BY OTHERS)
6 UNITS
(BY OTHERS)
20 UNITS
(BY OTHERS)
22 UNITS
(BY OTHERS)
10 UNITS
(BY OTHERS)
26 UNITS
(BY OTHERS)
30 UNITS
(BY OTHERS)
STA 583+19.69 (IL ROUTE 157)
STA 18+84.87 (IL ROUTE 162)
CONC PAD
44 UNITS
PROPOSED
IL ROUTE 157
MOBILE HOME
30 UNITS
EXISTING
IL ROUTE 157
BILLBOARD
SIGN
N
0 40 80 120
SCALE IN FEET

LEGEND

LIMITS OF TREE REMOVAL (ACRES)

X TREE REMOVAL

FILE NAME: \\loch.loc\root\Production\Files\2020\x20-0018\CAD\C400 Sheets\D876A46-sht-Removal.dgn

LOCHMUELLER GROUP
1928 S.N. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= Alex.Huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TREE REM PLAN 01-ALT	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 80.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 6/24/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TREE REMOVAL PLAN
IL ROUTE 162

SCALE: 1"=40' | SHEET 10 OF 10 SHEETS | STA 9+75.00 TO STA 20+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	72
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

LEGEND

BARRICADE, TYPE III

PROPOSED SIGN

ROAD CLOSED AHEAD
W20-3(0) 36X36

ROAD CLOSED 500 FT
W20-3(0) 36X36

IL ROUTE 157

MAIN STREET

BUSINESSES OPEN DURING CONSTRUCTION

* SIGN TO BE PROVIDED BY IDOT

ROAD CLOSED TO THRU TRAFFIC
R11-4 60X30

ROAD CLOSED
R11-2 48X30

MCT PARK & RIDE LOT

30' MIN (TYP)

WHEEL RANCH PARK

CARROLL LN

IL ROUTE 162

I-255

BARRICADE, TYPE III PER STANDARD 701901 (TYP)

BARRICADE, TYPE III PER STANDARD 701901 (TYP) WITH W20-3(0) 36X36

OLD KEEBLER ROAD

IL ROUTE 157

KEEBLER RD

N

0 200 400 600
SCALE IN FEET

MODEL: Default
FILE NAME: G:\FE\Jobs_2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-08-009-04 - FEI PRIME\CADD\CADD Sheets\073-0876A46-cht-MOT-Route-Closure.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 6/26/2024	DATE -	REVISED -

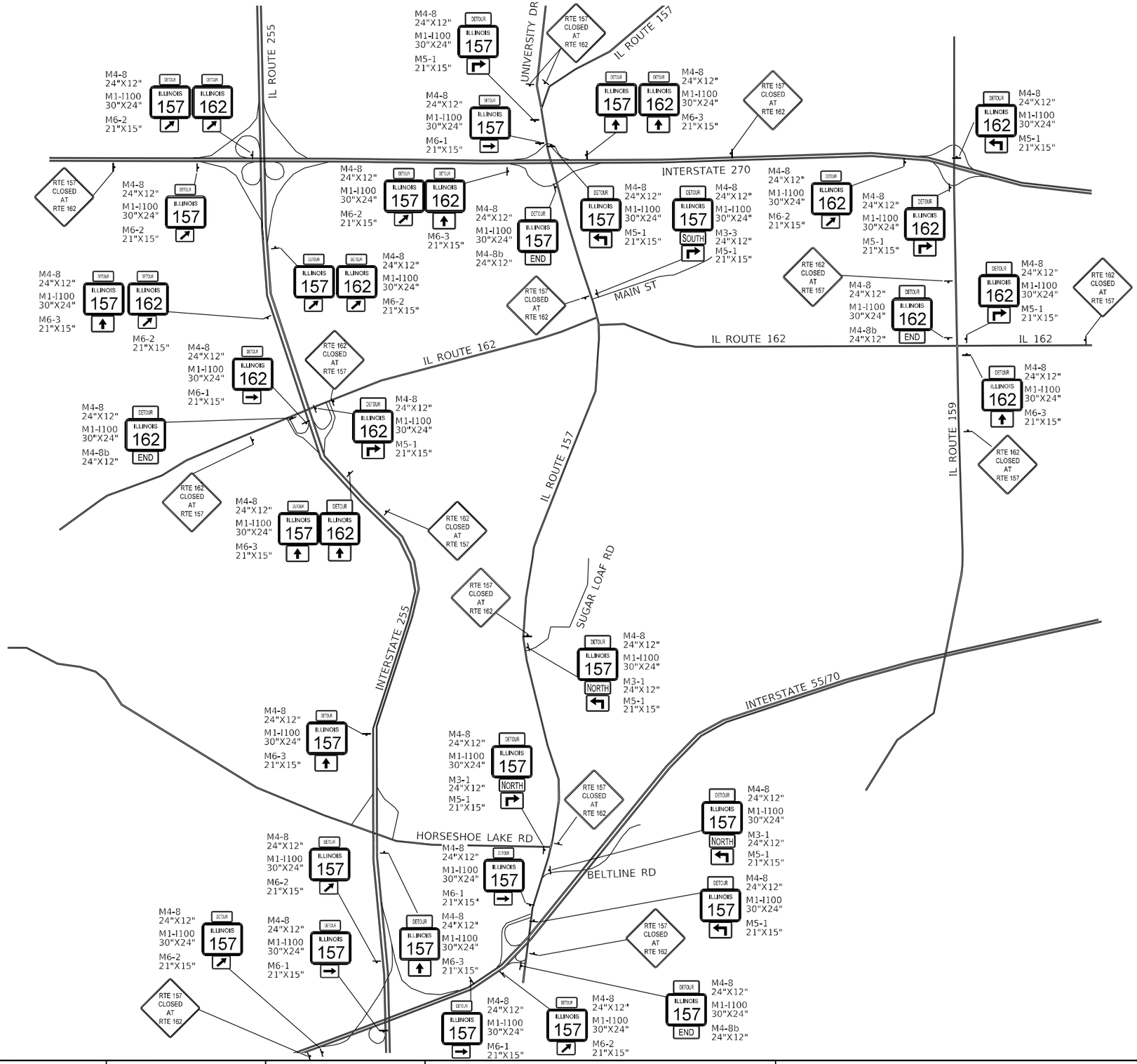
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
ILLINOIS ROUTE 159 & 162

SCALE: 1"=200' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	73
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

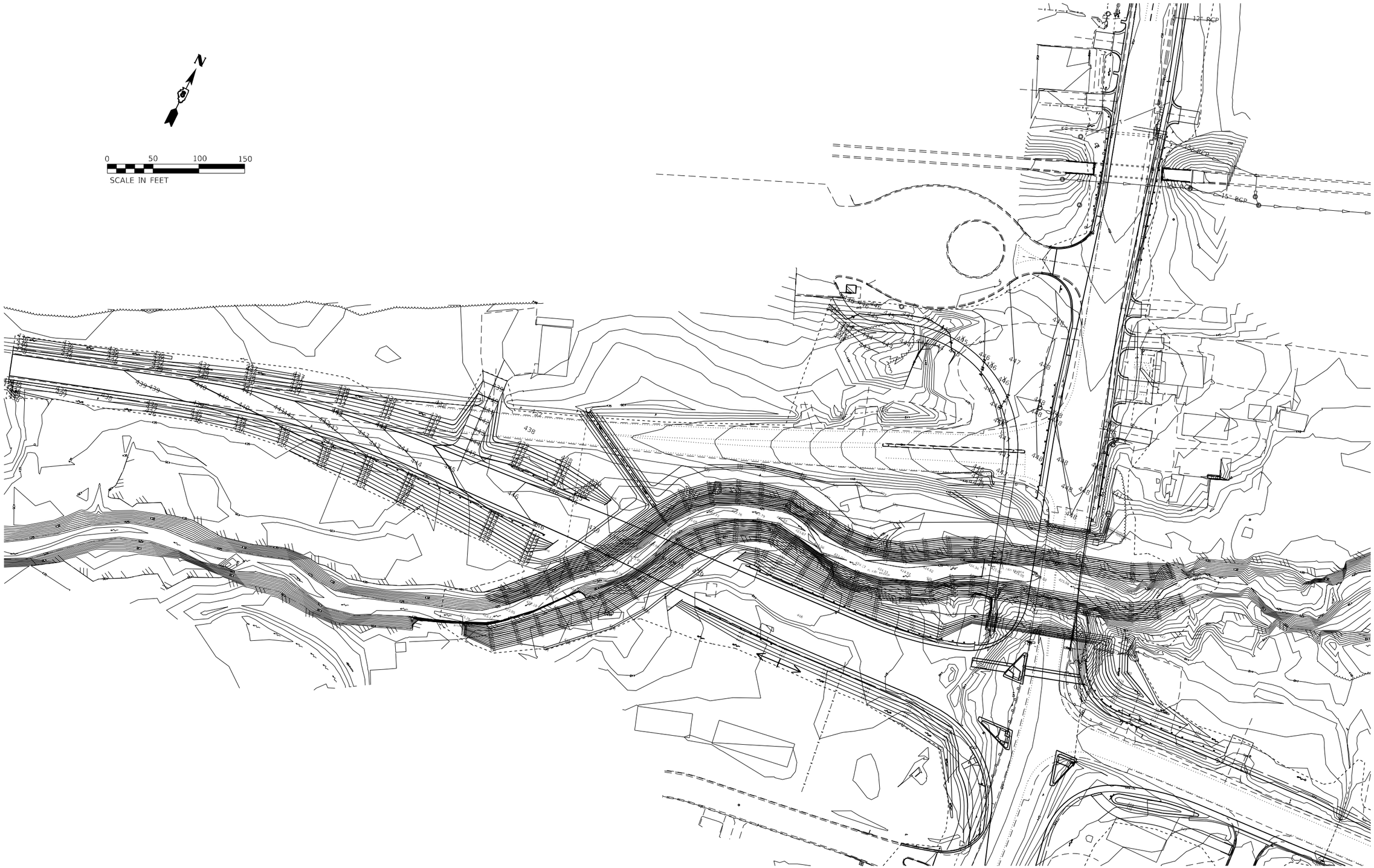


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FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = ggayt	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**MAINTENANCE OF TRAFFIC ALTERNATE ROUTE**
		DRAWN -	REVISED -		
	PLOT SCALE = 400.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 8/26/2024	DATE -	REVISED -		SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	74
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592

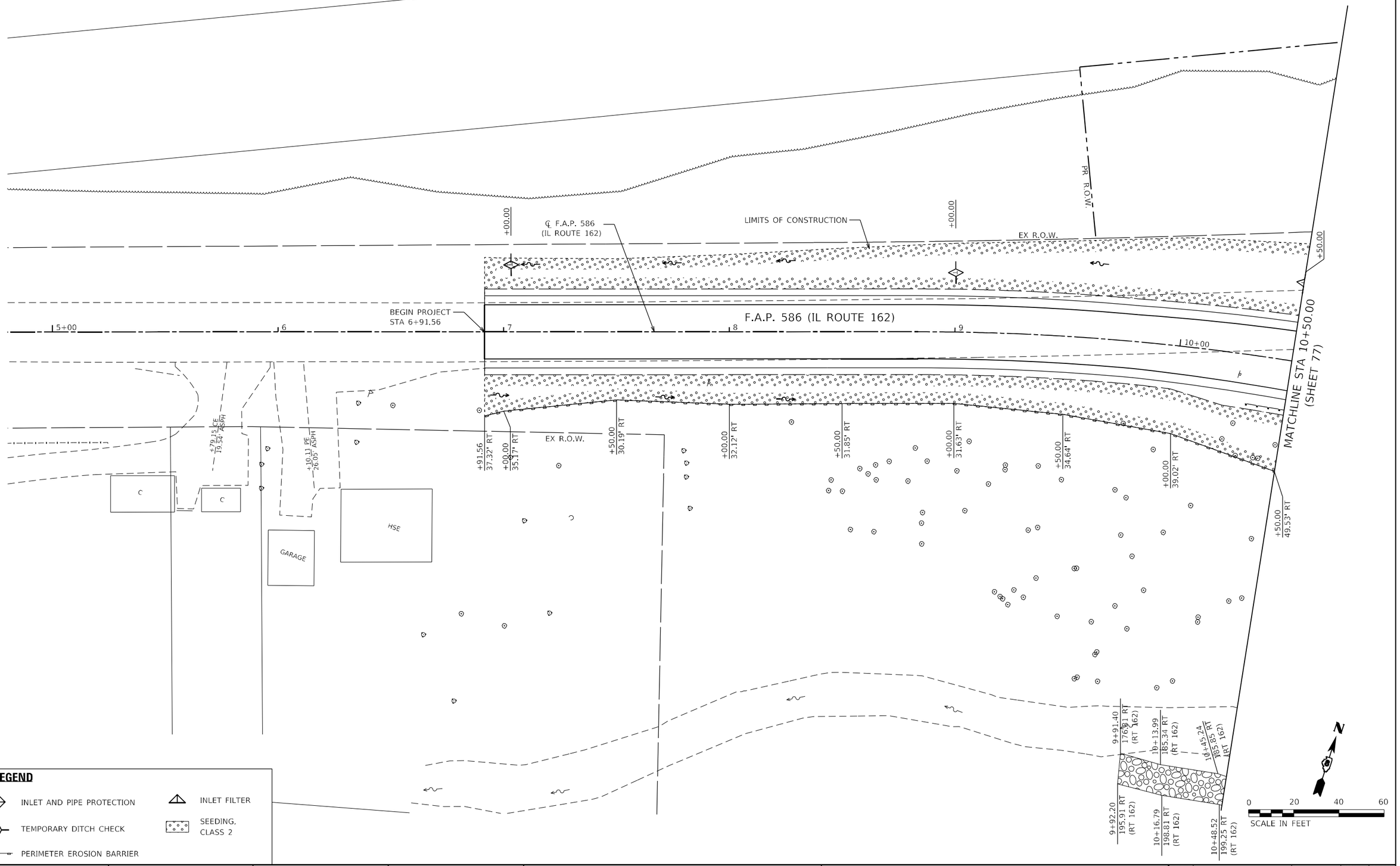


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FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = ggayt	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**GRADING PLAN**
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. TO STA.
	PLOT DATE = 6/27/2024	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	75
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



LEGEND

- INLET AND PIPE PROTECTION
- INLET FILTER
- TEMPORARY DITCH CHECK
- SEEDING, CLASS 2
- PERIMETER EROSION BARRIER

FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = ggayl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

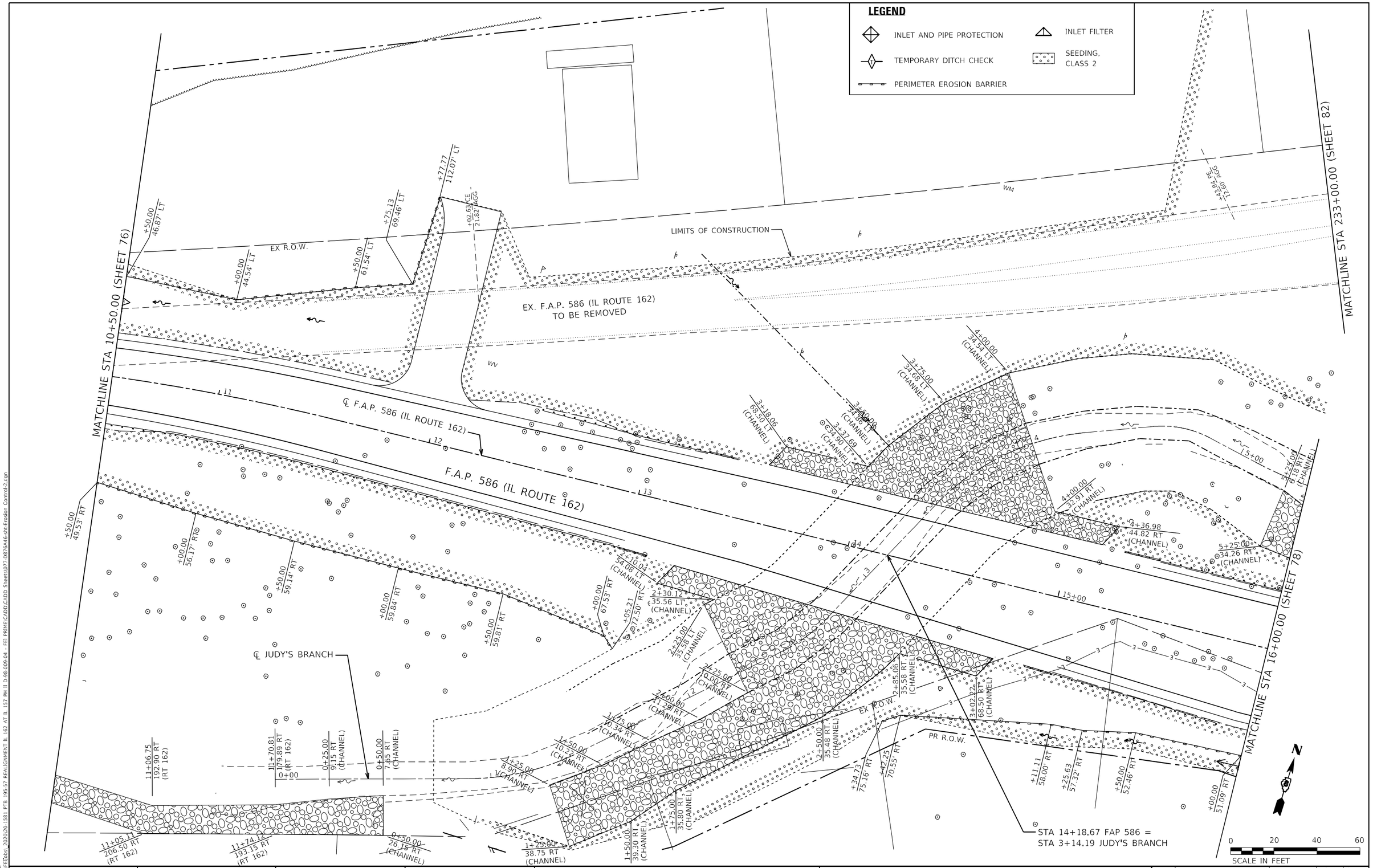
EROSION CONTROL PLAN
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 1 OF 8 SHEETS | STA. 6+91.56 | TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	76
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

MODEL: Default
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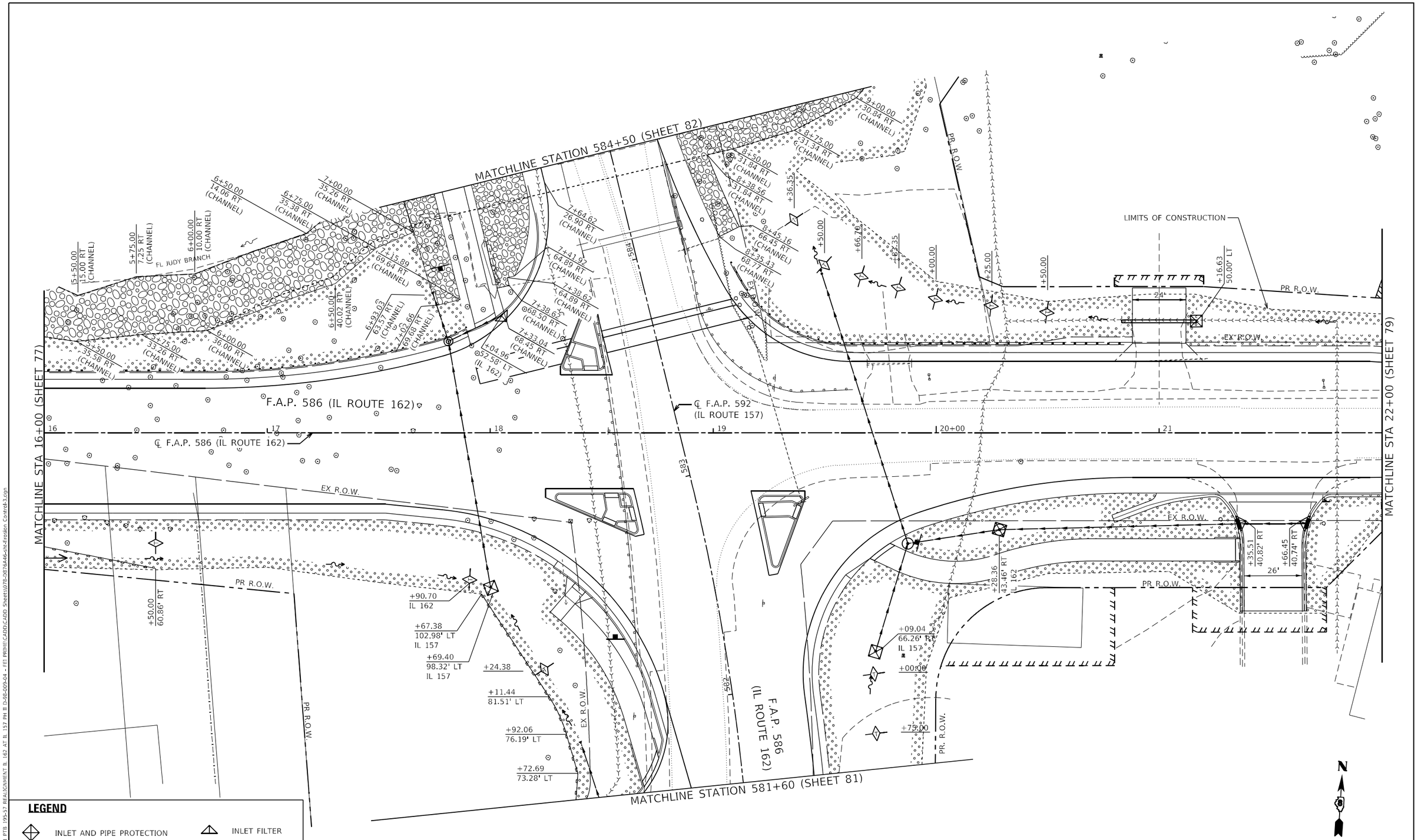
FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = ggayt	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 2 OF 8 SHEETS | STA. 10+50.00 | TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	77
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- INLET FILTER
- SEEDING, CLASS 2

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

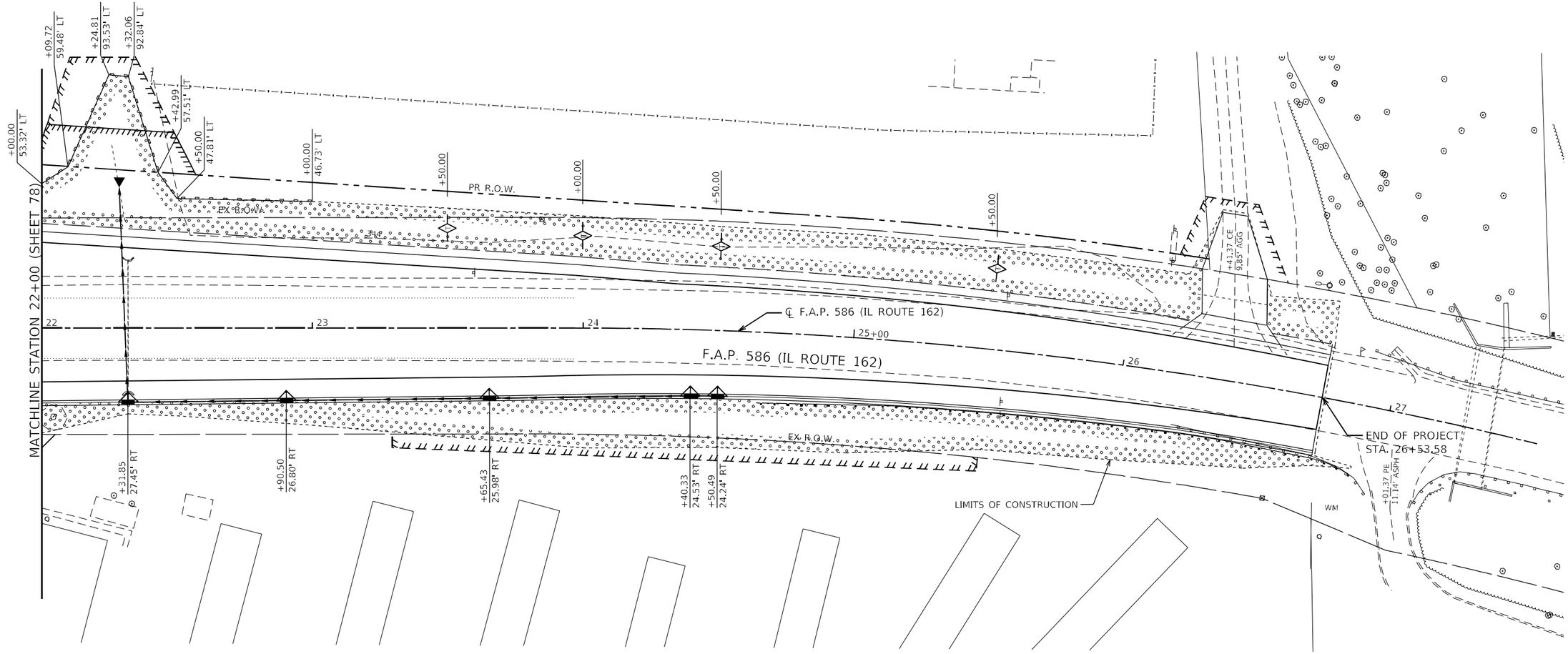
EROSION CONTROL PLAN
F.A.P. 586 (IL ROUTE 162) & F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	78
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

MODEL: Default
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LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- INLET FILTER
- SEEDING, CLASS 2

MODEL: Default
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

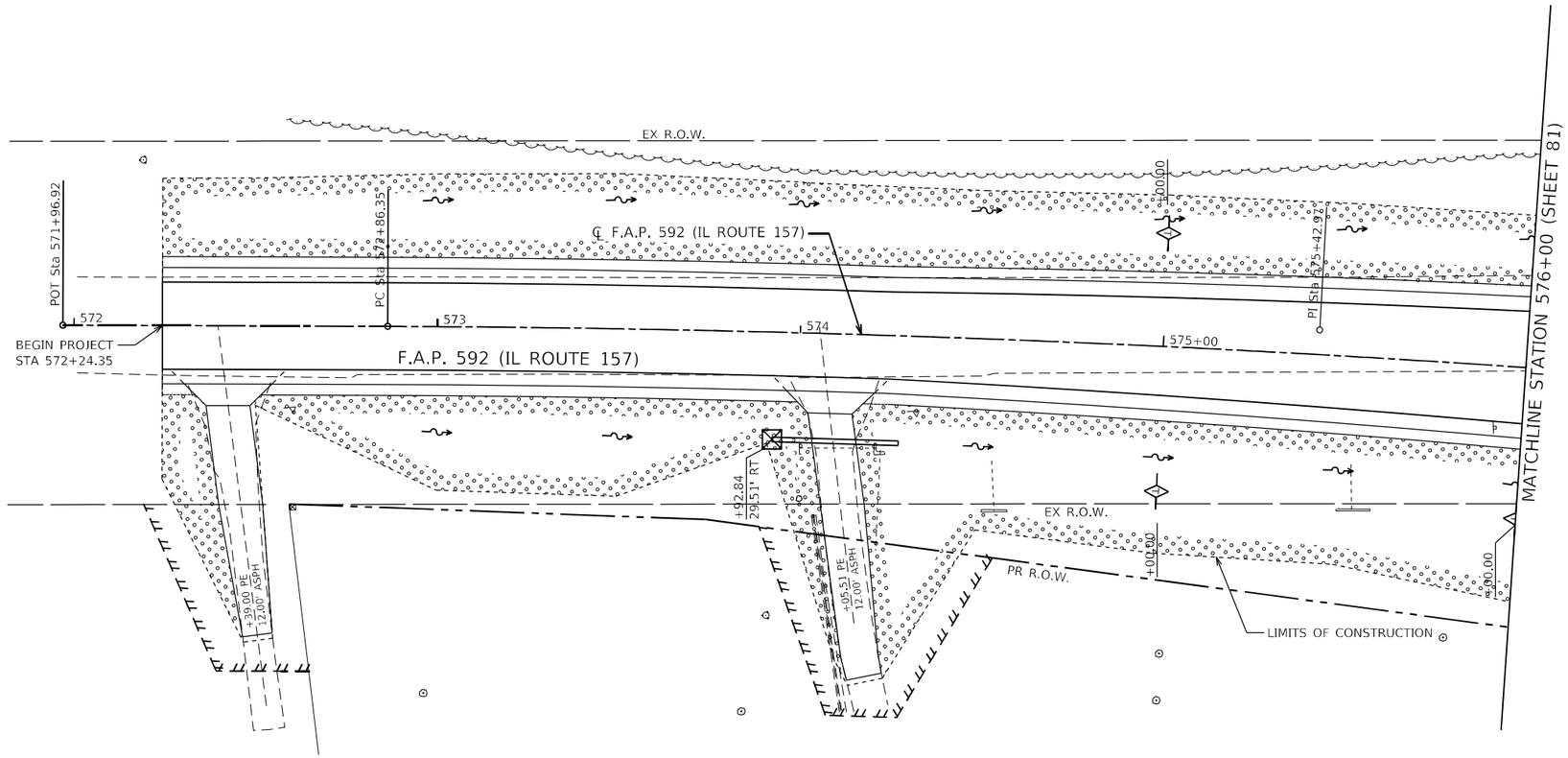
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 4 OF 8 SHEETS | STA. 22+00.00 | TO STA. 26+53.58

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	79
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592



LEGEND

- INLET AND PIPE PROTECTION
- INLET FILTER
- TEMPORARY DITCH CHECK
- SEEDING, CLASS 2
- PERIMETER EROSION BARRIER

N

0 20 40 60

SCALE IN FEET

MODEL: Default
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FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = ggayt	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 5 OF 8 SHEETS | STA. 572+24.35 | TO STA. 576+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	80
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

MATCHLINE STATION 576+00 (SHEET 80)

MATCHLINE STATION 581+60 (SHEET 78)

EX R.O.W.

PR R.O.W.

LIMITS OF CONSTRUCTION

WARNING SIGN

+30.93 PE
13.78° CONC

CARROLL LANE

+73.38 CARROLL LANE
53.09° RT
ASPH

+41.03
115.55' LT

+50.00
76.90' LT

+71.17
42.65' LT

+42.49
40.23' LT

POT Sta 576+89.20

PRC Sta 578+11.11

PCC Sta 580+00.32

POT Sta 10+00.00

℄ F.A.P. 592 (IL ROUTE 157)

F.A.P. 592 (IL ROUTE 157)

576 577 578 579 580+00 581

+50.00 +00.00

LEGEND

- INLET AND PIPE PROTECTION
- INLET FILTER
- TEMPORARY DITCH CHECK
- SEEDING, CLASS 2
- PERIMETER EROSION BARRIER

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: G:\FEI\Projects_2020\20-1581 PTB 195-37 REALIGNMENT IL 162 AT IL 157 PH II\ D-38-009-04 - FEI PRIME\ CADD\ CADD Sheets\08 - D876A46-IN-Erosion Control-8.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 6 OF 8 SHEETS | STA. 576+00.00 | TO STA. 581+60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	81
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

MATCHLINE STA 116+00.00

MATCHLINE STA 233+00.00 (SHEET 77)

MATCHLINE STATION 584+50 (SHEET 78)

MATCHLINE STATION 590+20 (SHEET 83)

12" CMP

FL=436.90

6+75.00
10.00 RT
(CHANNEL)

7+00.00
18.00 RT
(CHANNEL)

7+00.00
32.12 LT
(CHANNEL)

7+05.64
33.85 LT
(CHANNEL)

7+05.95
69.51' LT
(CHANNEL)

7+14.49
69.56 LT
(CHANNEL)

7+31.65
69.52 LT
(CHANNEL)

7+55.07
69.57 LT
(CHANNEL)

LIMITS OF CONSTRUCTION

EX. R.O.W.

PR R.O.W.

+29.34
69.97' LT

+50.00
32.30' LT

+00.00
36.42' LT

+50.00
51.01' LT

+08.84
36.52' LT

FL=447.81

12" CMP FL=44

+72.25
38.00' LT

POT Sta 586+06.50

+58.30
36.97' LT

+45.54
32.31' LT

+56.61
26.28' LT

+71.52
24.00' LT

585+00

586

F.A.P. 592 (IL ROUTE 157)

587

588

589

590+00

℄ F.A.P. 592 (IL ROUTE 157)

8+24.24
69.54 LT
(CHANNEL)

8+34.24
69.64 LT
(CHANNEL)

8+34.61
31.84 LT
(CHANNEL)

+71.52
26.01' RT

+61.62
25.78' RT

+14.81
24.12' RT

+00.35
25.83' RT

+14.11
36.00' RT

+24.58
36.00' RT

FL=445.98

FL=445.83

8+75.00
31.34 LT
(CHANNEL)

+11.23
74.81' RT

+71.60
57.94' RT

+00.00
54.57' RT

+50.00
48.90' RT

+74.63
48.85' RT

+50.00
35.90' RT

+00.00
38.75' RT

+50.00
40.41' RT

+50.00
70.05' RT

+32.76
72.77' RT

+47.76
73.10' RT

+76.59
67.39' RT

+13.83
47.75' RT

+70.17
45.47' RT

+51.13
75.65' RT

+71.82
64.80' RT

+86.32
70.34' RT

9+25.00
25.55 LT
(CHANNEL)

9+25.00
23.52 RT
(CHANNEL)

LEGEND

- INLET AND PIPE PROTECTION
- INLET FILTER
- TEMPORARY DITCH CHECK
- SEEDING, CLASS 2
- PERIMETER EROSION BARRIER

N

0 20 40 60
SCALE IN FEET

MODEL:
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = untitled	DESIGNED -	REVISED -	
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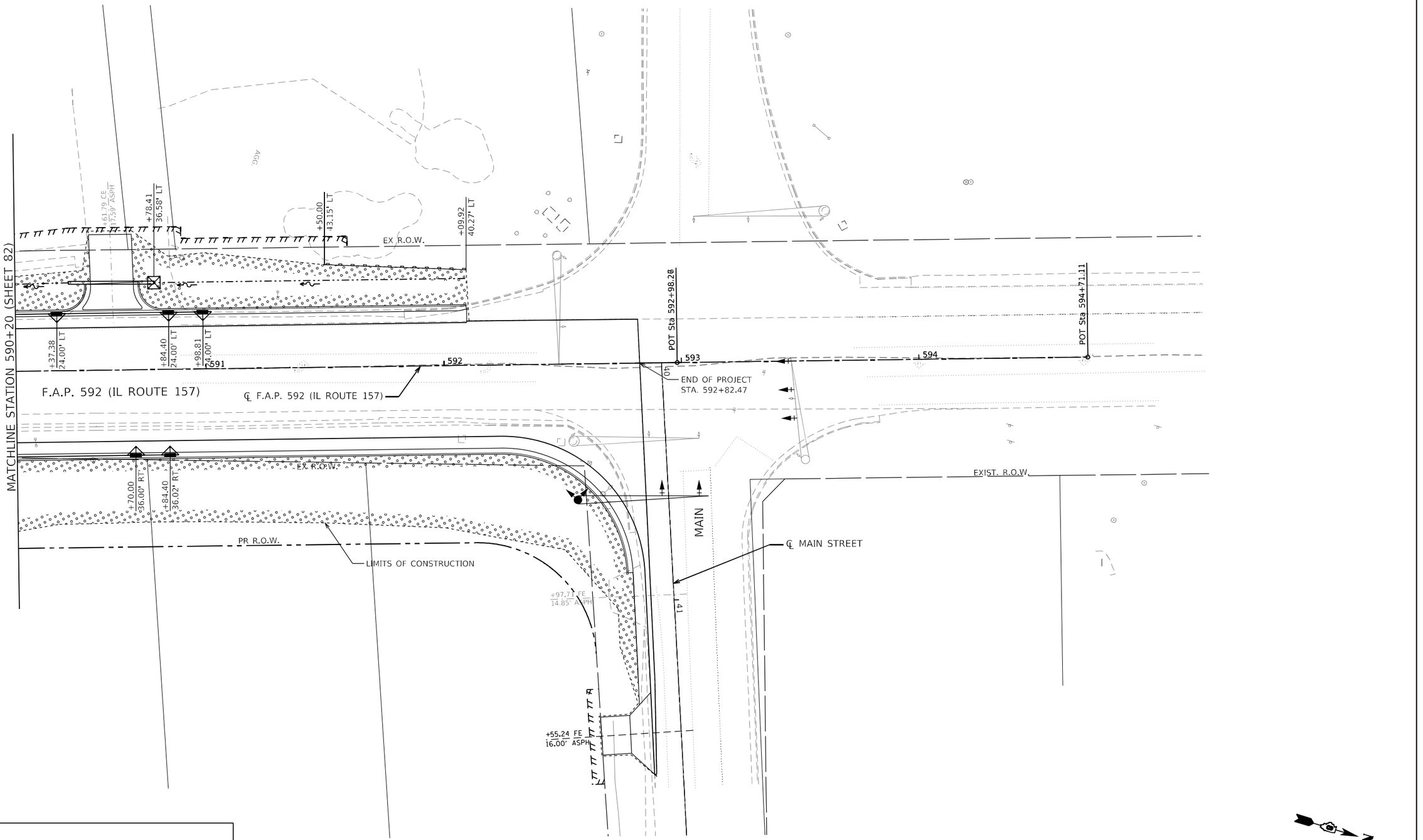
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 7 OF 8 SHEETS | STA. 584+50.00 | TO STA. 590+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	82
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- INLET FILTER
- SEEDING, CLASS 2

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = untitled	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/18/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 8 OF 8 SHEETS | STA. 590+20.00 | TO STA. 592+82.47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	83
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592

MODEL:
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LIMITS OF CONSTRUCTION

EX R.O.W.

PR R.O.W.

BEGIN PROJECT
STA 6+91.56

℄ F.A.P. 586
(IL ROUTE 162)

F.A.P. 586 (IL ROUTE 162)

+00

10+00

MATCHLINE STA 10+50.00 (SHEET 85)

EX R.O.W.

+79.15 ICE
19.54' ASPH

+10.11 PE
26.05' ASPH

C

C

HSE

GARAGE

2-1
1

DRAINAGE STRUCTURE ID

A

PIPE CULVERT / STORM SEWER ID

SEE STORM SEWER PROFILES FOR DRAINAGE STRUCTURE INFORMATION

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: G:\FE\Jobs_2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-28-009-04 - FEI PRIME\CADD\CADD Sheets\1084-087\6A46-cht-Drainage & Utilities-1.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 6/27/2024	DATE -	REVISED -

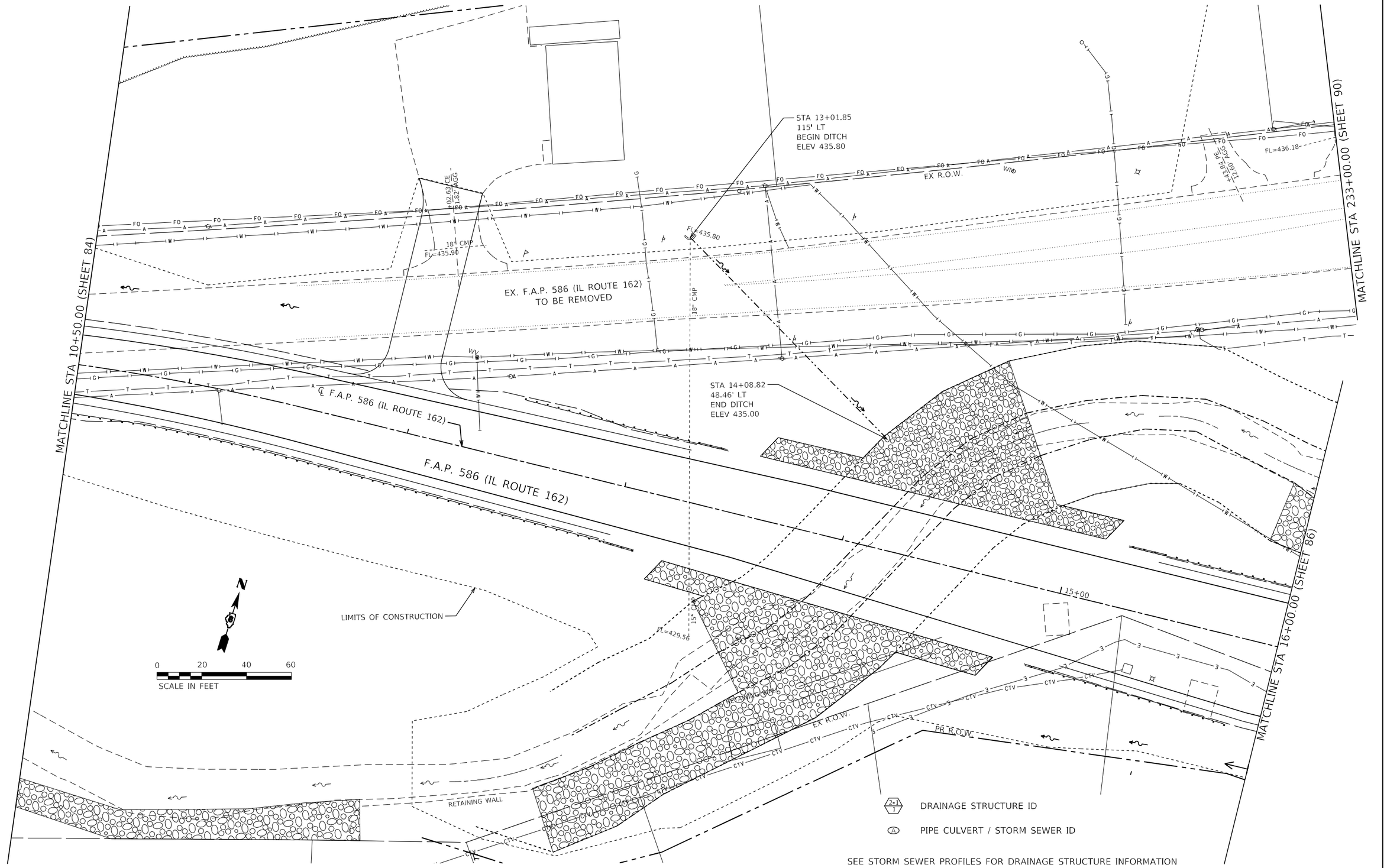
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 1 OF 8 SHEETS | STA. 6+91.56 | TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	84
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



MODEL: Default
FILE NAME: c:\pf\tbos_2020\20-181 PTB 195-37 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\C4DD\C4DD Sheets\085-09176A46-sht-Drainage & Utilities-2.dgn

FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = ggayt	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 2 OF 8 SHEETS | STA. 10+50.00 | TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	85
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

MATCHLINE STATION 584+50 (SHEET 90)

MATCHLINE STA 16+00 (SHEET 85)

MATCHLINE STA 22+00 (SHEET 87)

MATCHLINE STATION 581+60 (SHEET 89)

FL JUDY BRANCH

EXIST. R.O.W.

PR R.O.W.

EX R.O.W.

PI Sta 584+07.66

F.A.P. 586 (IL ROUTE 162)

℄ F.A.P. 592
(IL ROUTE 157)

℄ F.A.P. 586 (IL ROUTE 162)

CONCRETE CURB
AND GUTTER (TYP)

PI Sta 582+08.56

F.A.P. 586
(IL ROUTE 162)

LIMITS OF CONSTRUCTION

℄ EXISTING F.A.P. 592
(IL ROUTE 157)

N

2-1 / 1 DRAINAGE STRUCTURE ID

A PIPE CULVERT / STORM SEWER ID

SEE STORM SEWER PROFILES FOR DRAINAGE STRUCTURE INFORMATION

0 20 40 60
SCALE IN FEET

MODEL: Default
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 6/27/2024	DATE -	REVISED -

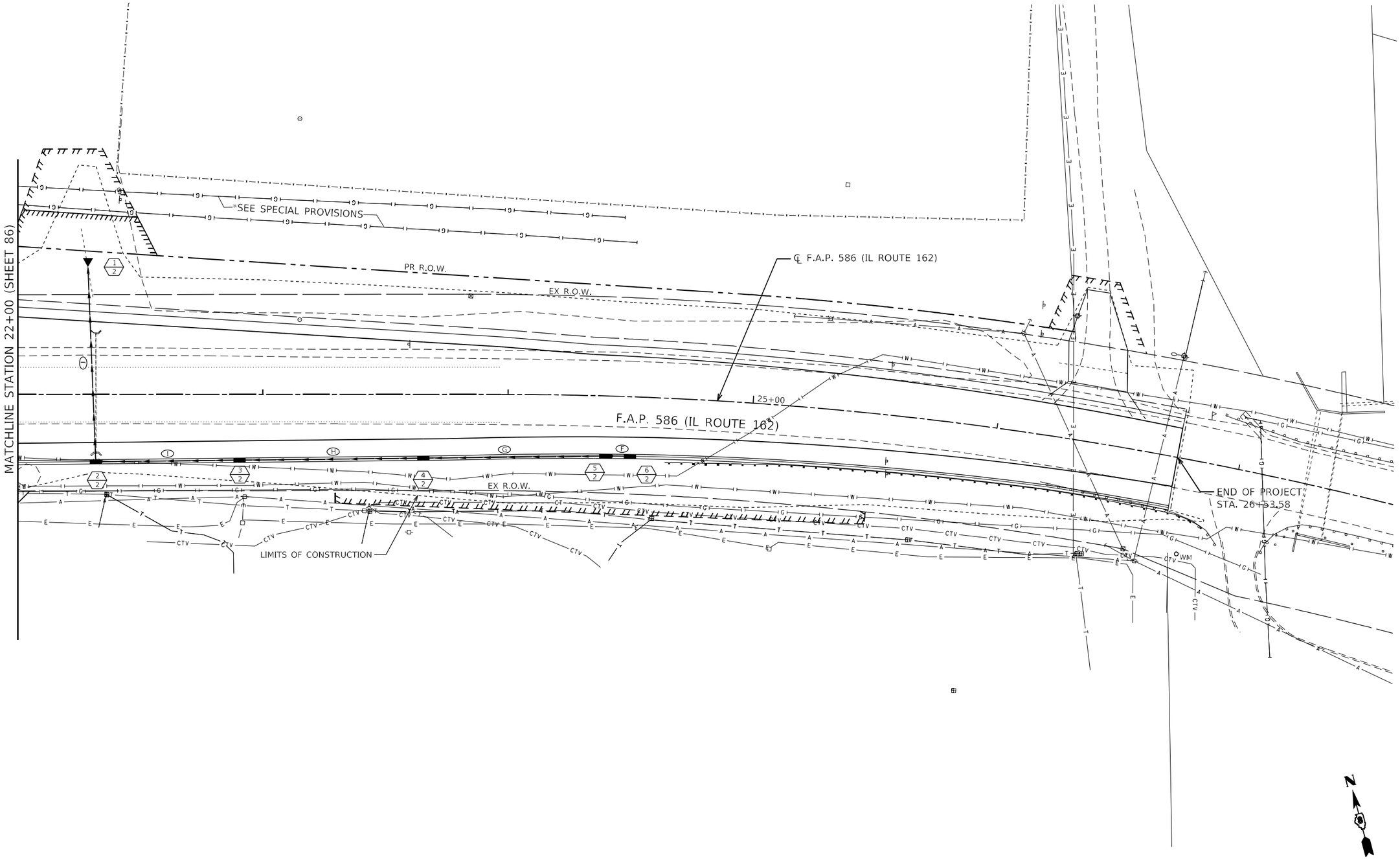
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 586 (IL ROUTE 162) & F.A.P 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	86
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



2-1 / 1 DRAINAGE STRUCTURE ID

A PIPE CULVERT / STORM SEWER ID

SEE STORM SEWER PROFILES FOR DRAINAGE STRUCTURE INFORMATION

MODEL: Default
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
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PLOT DATE = 6/27/2024	DATE -	REVISED -

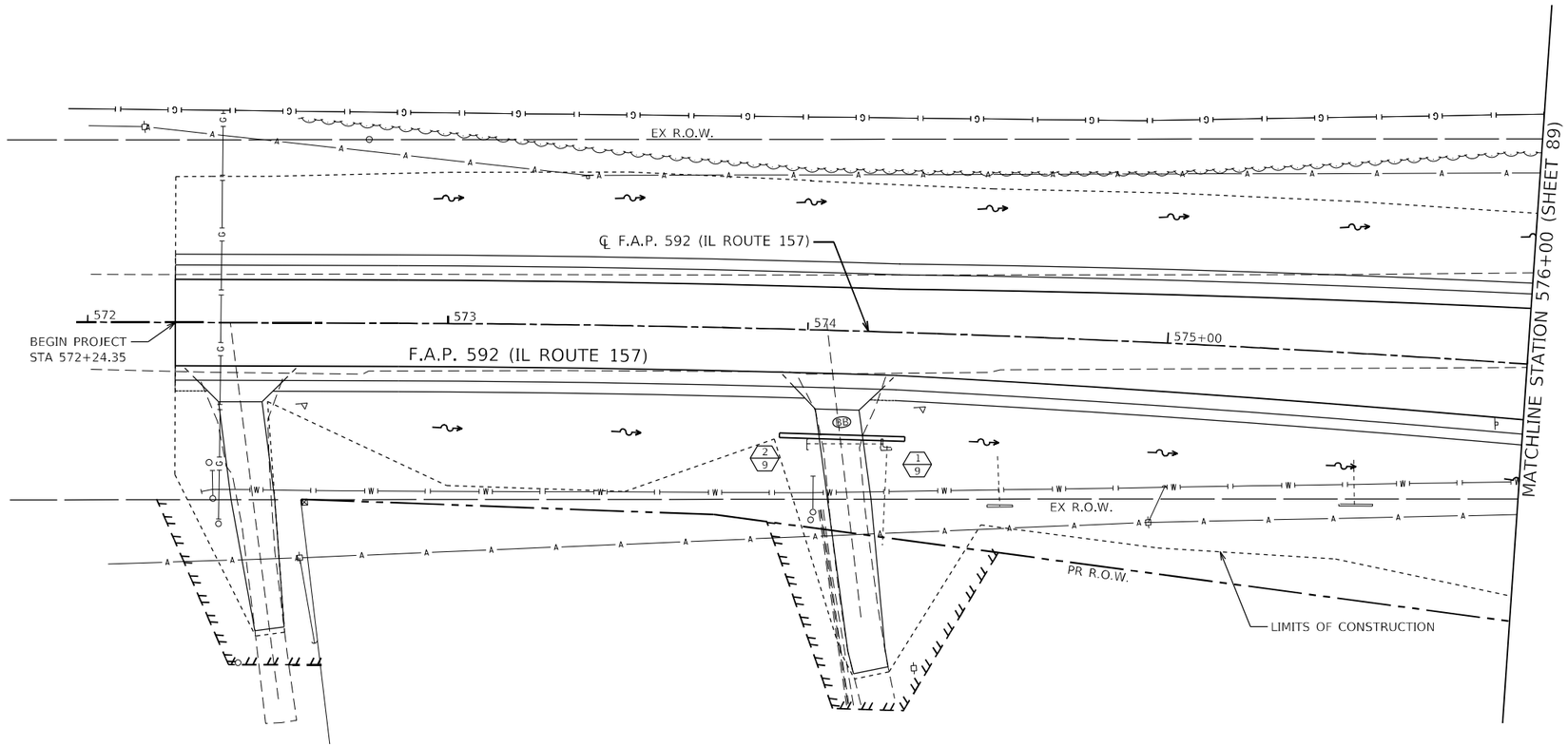
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 586 (IL ROUTE 162)

SCALE: 1"=20' | SHEET 4 OF 8 SHEETS | STA. 22+00.00 | TO STA. 26+53.58

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	87
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

586/592



SEE STORM SEWER PROFILES FOR DRAINAGE STRUCTURE INFORMATION

MODEL: Default
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

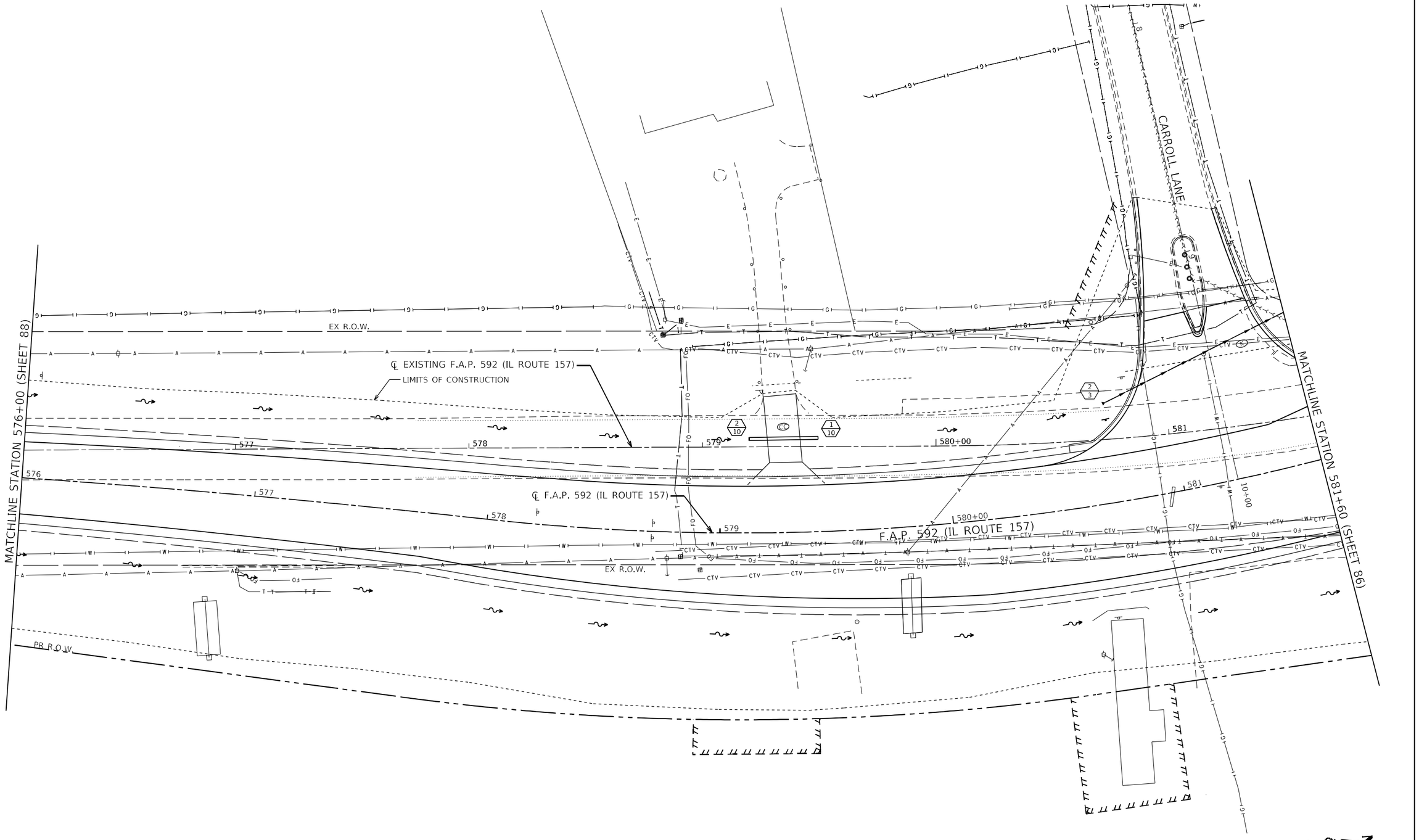
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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 5 OF 8 SHEETS | STA. 572+24.35 | TO STA. 576+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	88
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



MODEL: Default
FILE NAME: G:\Projects\2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II\D-98-009-04 - FEI PRIME\CADD\C4DD Sheets\089-D876A46-sht-Drainage & Utilities-s.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 6 OF 8 SHEETS | STA. 576+00.00 | TO STA. 581+60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	89
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

MATCHLINE STA 16+00.00

MATCHLINE STA 233+00.00 (SHEET 85)

MATCHLINE STATION 584+50 (SHEET 86)

MATCHLINE STATION 590+20 (SHEET 91)

EX R.O.W.

PR R.O.W.

F.A.P. 592 (IL ROUTE 157)

℄ F.A.P. 592 (IL ROUTE 157)

585+00 586 587 588 589 590+00

LIMITS OF CONSTRUCTION

STREAM MONITOR

DECK

HSE

GARAGE

2-1 / 1 DRAINAGE STRUCTURE ID

(A) PIPE CULVERT / STORM SEWER ID

SEE STORM SEWER PROFILES FOR DRAINAGE STRUCTURE INFORMATION

N

0 20 40 60

SCALE IN FEET

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/18/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 7 OF 8 SHEETS | STA. 584+50.00 | TO STA. 590+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	90
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592

MATCHLINE STATION 590+20 (SHEET 90)

61.79 CE
77.59' ASPH

AGG.

PUTTING GREEN

LANDSCAPED SIGN AREA

EX R.O.W.

F.A.P. 592 (IL ROUTE 157)

591 592 593 594

℄ F.A.P. 592 (IL ROUTE 157)

END OF PROJECT
STA. 592+82.47

EX R.O.W.

EXIST. R.O.W.

LIMITS OF CONSTRUCTION

PR R.O.W.

MAIN

℄ MAIN STREET

+97.71 FE
14.85' ASPH

+55.24 FE
16.00' ASPH

141 142

2-1
1 DRAINAGE STRUCTURE ID

A PIPE CULVERT / STORM SEWER ID

SEE STORM SEWER PROFILES FOR DRAINAGE STRUCTURE INFORMATION

N

0 20 40 60
SCALE IN FEET

MODEL:
FILE NAME: G:\FE\Data_2020\20-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\CADD\CADD Sheets\091-09876A46-sht-Drainage & Utilities-8.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

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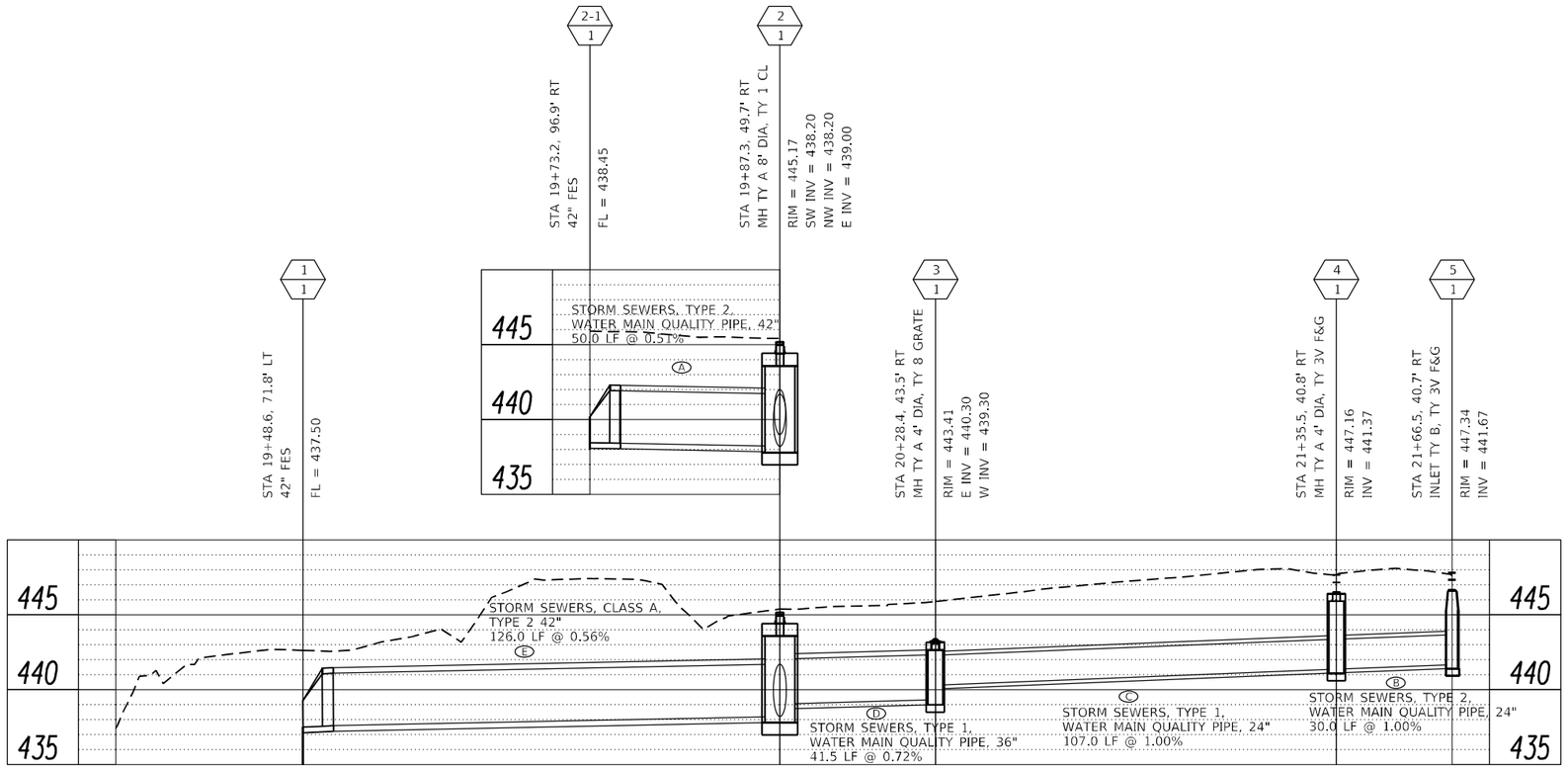
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
F.A.P. 592 (IL ROUTE 157)

SCALE: 1"=20' | SHEET 8 OF 8 SHEETS | STA. 590+20.00 | TO STA. 592+82.47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	91
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592



MODEL:
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

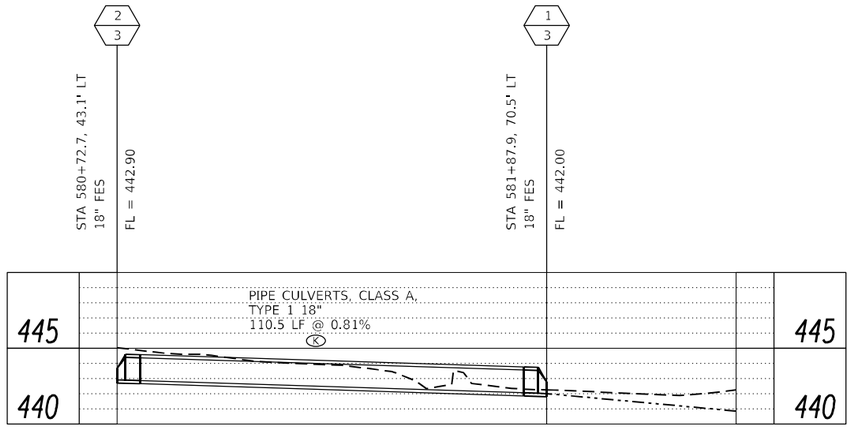
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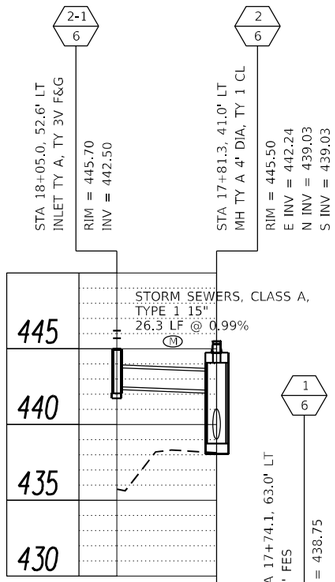
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

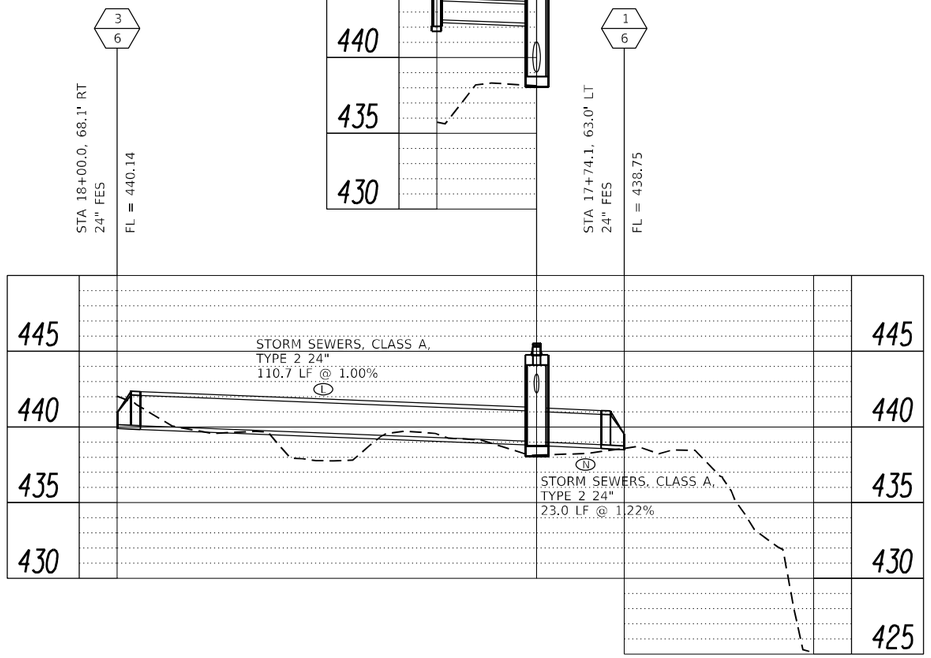
STORM SEWER PROFILES

SCALE: 20H : 5V | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	92
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		







MODEL:
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = untitled	DESIGNED -	REVISED -
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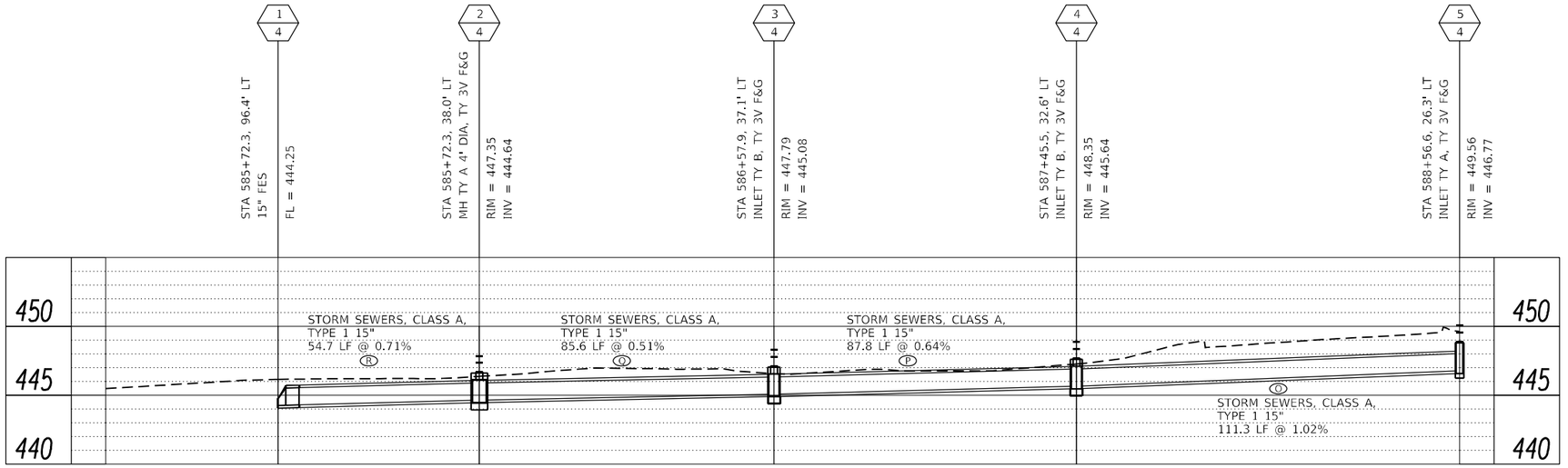
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

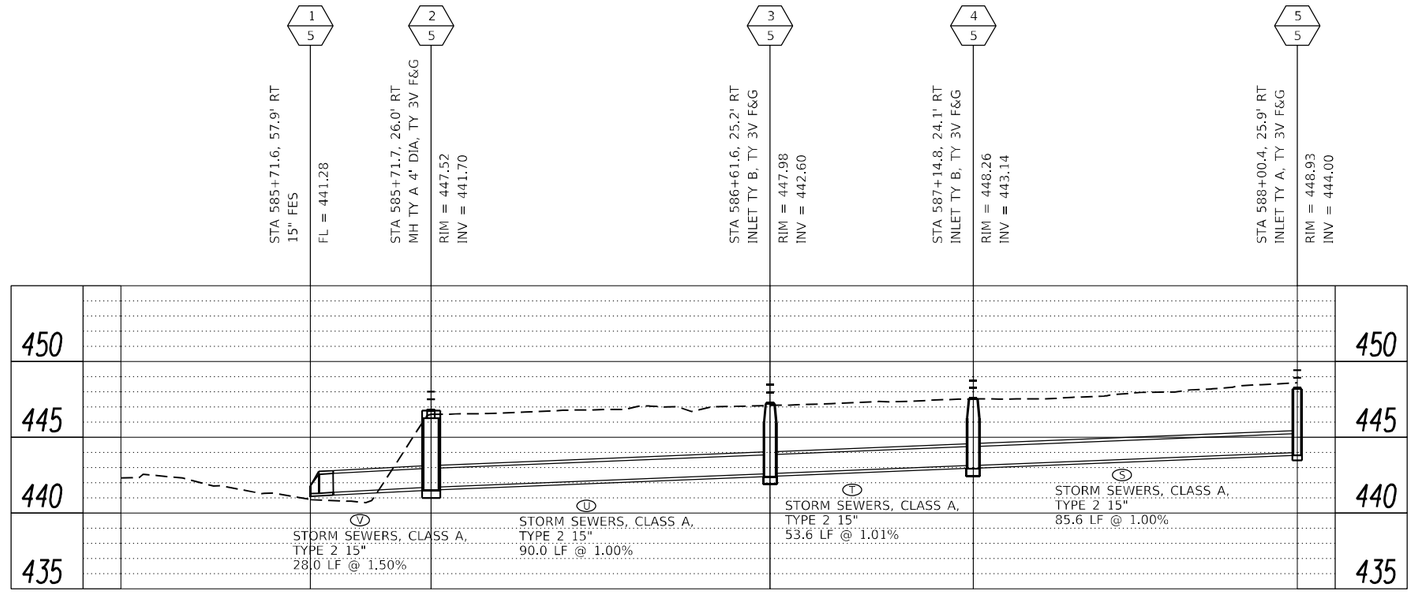
STORM SEWER PROFILES

SCALE: 20H : 5V | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	93
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

586/592





MODEL:
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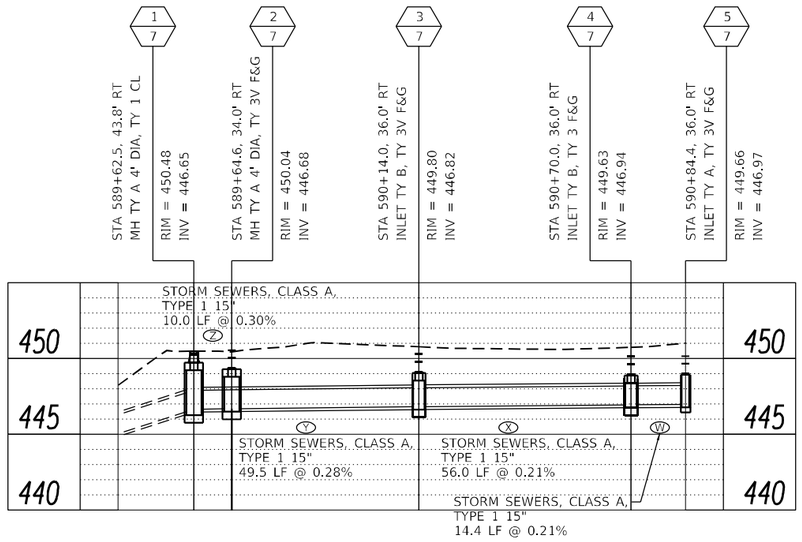
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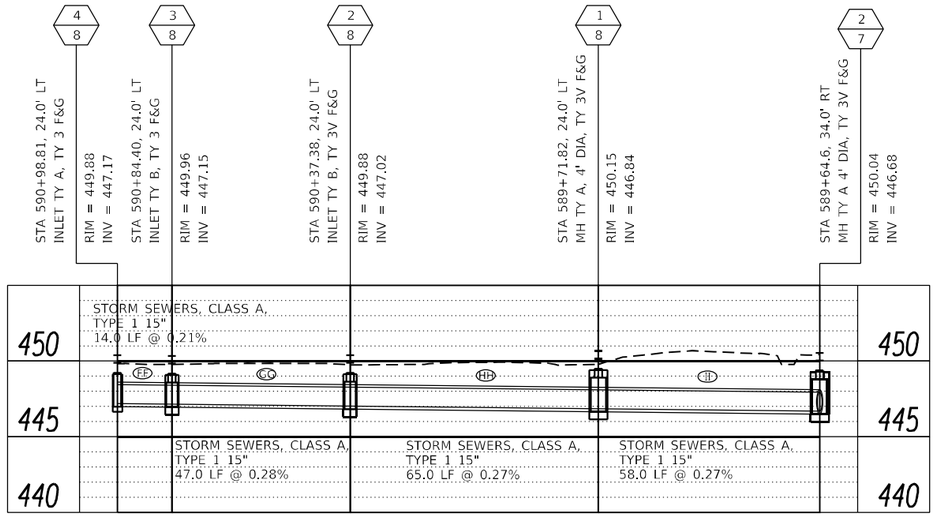
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

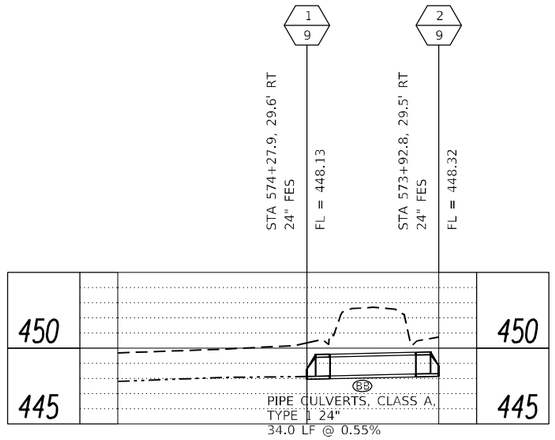
STORM SEWER PROFILES

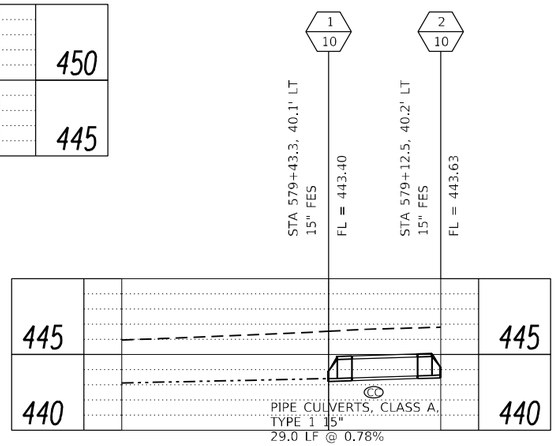
SCALE: 20H : 5V | SHEET 3 OF 4 SHEETS | STA. | TO STA.

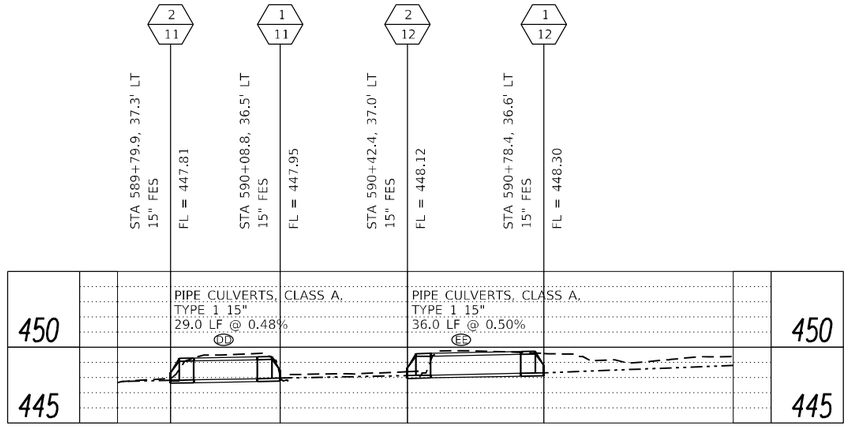
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	94
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			











MODEL:
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FUHRMANN ENGINEERING
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USER NAME = untitled	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/18/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM SEWER PROFILES

SCALE: 20H : 5V | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	95
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

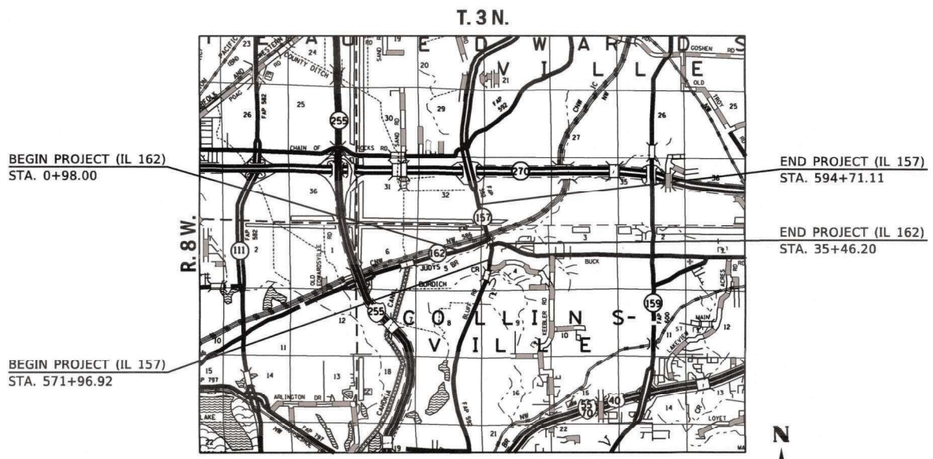
SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
1	-	COVER SHEET
2	-	LEGEND & GENERAL NOTES
3	0+98-8+00 (162)	PLAT OF HIGHWAY
4	8+00-18+00 (162)	PARCELS 8003001, 002, 025
5	12+00-18+00 (162)	PARCELS 8003003-010
6	18+00-31+00 (162)	PARCELS 8003012-014
7	572+00-580+00 (157)	PARCELS 8003011, 012, 017
8	584+00-589+00 (157)	PARCELS 8003016, 018-020, 024
9	589+00-593+00 (157)	PARCELS 8003021-023
10	-	TOTAL HOLDING
11	-	TOTAL HOLDING
12	-	TOTAL HOLDING
13	-	CONTROL POINT TIE SHEET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

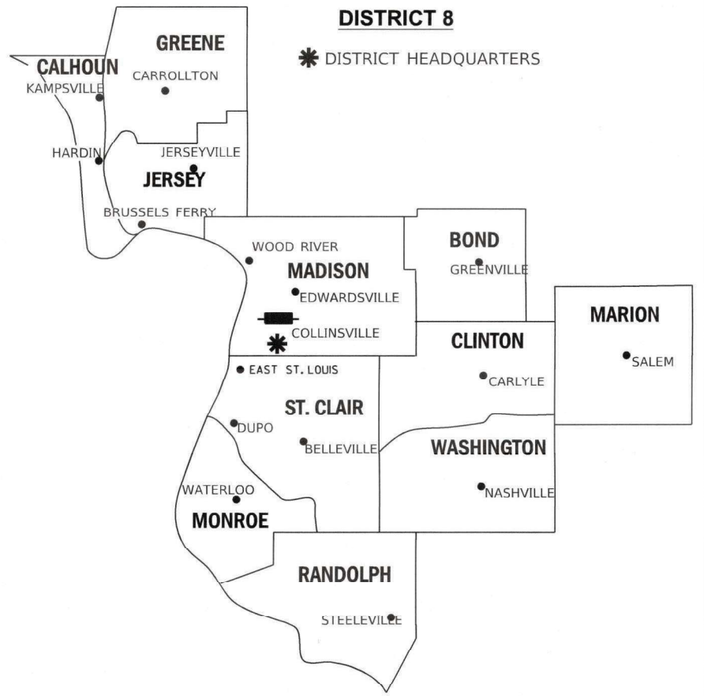
SPACE RESERVED FOR RECORDING OFFICER

PLAT OF HIGHWAYS

FAP ROUTE 586 (IL 162)
FAP ROUTE 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10



PROJECT LENGTH (IL 162) = 3,448 LIN. FT. = 0.6530 MILES
PROJECT LENGTH (IL 157) = 2,274 LIN. FT. = 0.4307 MILES



LOCATION OF SECTION INDICATED THUS: ▬

PREPARED BY:

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

STATE OF ILLINOIS
NATHAN
DOZIER
035-003723
SPRINGFIELD
ILLINOIS
PROFESSIONAL LAND SURVEYOR

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

SHEET 1 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	096	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

- TRAFFIC SIGNAL GULFBOX
- TRAFFIC SIGNAL HANDHOLE
- TRAFFIC SIGNAL SIGNAL POST
- TRAFFIC SIGNAL STEEL MAST ARM
- TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGNAL WOODEN POLE
- TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY
- TRAFFIC SIGNAL VEHICLE DETECTION MAGNET
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL HEAVY DUTY HANDHOLE
- RAILROAD CANTILEVER MAST ARM
- RAILROAD CROSSBUCK
- RAILROAD TRACK
- RAILROAD TRACK (ABANDONED)
- RAILROAD CROSSGATE
- RAILROAD CONTROL BOX
- RAILROAD FLASHING SIGNAL
- UTILITY TELEPHONE SPLICE BOX
- UTILITY POWER POLE
- UTILITY TRAFFIC SIGNAL
- UTILITY LIGHT POLE
- UTILITY FIRE HYDRANT
- UTILITY MANHOLE
- UTILITY TELEPHONE POLE
- UTILITY GUY ANCHOR
- UTILITY PIPELINE WARNING SIGN
- UTILITY HANDHOLE
- UTILITY SPLICE BOX
- UTILITY JUNCTION BOX
- UTILITY HEAVY DUTY HANDHOLE
- UTILITY DOUBLE HANDHOLE
- UTILITY CONTROLLER
- UTILITY WATER METER
- DRAINAGE FLOW LINE
- RIP RAP
- HEADWALL
- CULVERT END SECTION
- DRAINAGE MANHOLE
- INLET
- ROADWAY DITCH FLOW
- VEGETATION LINE
- STUMP
- SHRUB
- EVERGREEN TREE
- DECIDUOUS TREE
- WOODS/BUSH LINE
- TRAFFIC SIGN
- GUARDRAIL POST
- GUARDRAIL
- FIELD LINE
- LEVEE/NOISE BARRIER
- FENCE
- MAIL BOX
- ADVERTISING SIGN
- MARSH
- LIGHTING HANDHOLE
- LIGHTING POWER POLE
- LIGHTING JUNCTION BOX
- LIGHTING HEAVYDUTY HANDHOLE
- LIGHTING CONTROLLER
- LIGHTING PULL POINT
- HIGHWAY LIGHTING ELECTRICAL GROUND
- HIGHWAY LIGHTING SINGLE UNIT
- HIGHWAY LIGHTING DOUBLE UNIT
- EXISTING CONCRETE BARRIER
- EXISTING CREEK OR DITCH
- EXISTING EDGE OF PAVEMENT

RIGHT-OF-WAY LEGEND

SECTION CORNERS — QUARTER SECTION CORNERS

- EXISTING CENTERLINE
- EXISTING RIGHT-OF-WAY LINE
- FORMER RIGHT-OF-WAY LINE
- EXISTING IDOT EASEMENT LINE
- EXISTING EASEMENT LINE
- BUILDING SETBACK LINE
- EXISTING ACCESS CONTROL LINE
- EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY LINE (TITLE)
- RECORDED PLAT/DEED LINE
- APPARENT PROPERTY LINE
- SAME OWNERSHIP
- 121.45' MEASURED DIMENSION
- (121.45') RECORDED DIMENSION
- FOUND STONE
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
- FOUND CUT CROSS
- SET CUT CROSS

■ STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

■B STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS IN CULTIVATED AREA, A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
℄	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
Ch	CHAIN
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
N	NORTH
N/F	NOW OR FORMERLY
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
ℙ	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

SPACE RESERVED FOR RECORDING OFFICER

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS OF CURVE
L	LENGTH OF CURVE
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

AGG	AGGREGATE
BLDG	BUILDING
C	CURVE
CB	CHORD BEARING
CD	CHORD DISTANCE
CM	CONCRETE MONUMENT
CONST	CONSTRUCTION
COR	CORNER
CP	CONTROL POINT
DOC	DOCUMENT
EOP	EDGE OF PAVEMENT
ENT	ENTRANCE
ESMT	EASEMENT
NO	NUMBER
PERM	PERMANENT
PP	POWER POLE
SEC	SECTION
TEMP	TEMPORARY

BASIS OF COORDINATE & BEARING STATEMENT

THE PROJECT COORDINATES AND BASIS OF BEARING WERE ESTABLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION GPS SURVEY. THE SURVEY WAS PERFORMED DURING THE MONTH OF JANUARY, 2007. THE GPS SURVEY WAS REFERENCED TO AERIAL SURVEY NO. D-2020.

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (97). THE DISTANCES AS SHOWN HEREON, EXCEPT AS NOTED, ARE GROUND DISTANCES. THE AVERAGE COMBINATION FACTOR USED FOR THIS PLAT IS 0.99992503. THE GRID COORDINATS WHEN DIVIDED BY THE AVERAGE COMBINATION FACTOR WILL PORVIDE GROUND COORDINATES.

PROJECT COORDINATES ARE GROUND COORDINATES AND BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (97).

GPS/AERIAL SURVEY NO. D-2020
STATE PLANE COORDINATE ZONE: IL WEST NAD 83 (97)
VERTICAL DATUM: NAVD 88
GEOID MODEL: GEOID 96
AVERAGE COMBINATION FACTOR; 0.99992503

PROJECT SURVEY CONTROL DATA
GROUND SURFACE COORDINATE SYSTEM

COORDINATES PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION JOB NO. D-98-003-010 / CONTRACT NO. 76A46

POINT NO.	NORTH (FEET)	EAST (FEET)	DESCRIPTION
10	755,311.9690	2,343,756.0900	IRON ROD W/ IDOT CAP
11	755,342.9730	2,344,582.6070	IRON ROD
14	754,778.9450	2,345,941.0230	IRON ROD W/ IDOT CAP
101	756,596.2030	2,344,409.6360	IRON ROD W/ IDOT CAP
102	756,221.4930	2,343,466.2320	IRON ROD W/ IDOT CAP
103	755,768.8300	2,343,676.8710	IRON ROD W/ IDOT CAP
104	755,492.8010	2,343,585.5330	IRON ROD W/ IDOT CAP
105	755,122.0780	2,343,829.0130	IRON ROD W/ IDOT CAP
106	755,350.5390	2,343,137.7040	IRON ROD W/ IDOT CAP
107	755,138.0120	2,344,048.7670	IRON ROD W/ IDOT CAP
108	754,905.3480	2,344,101.8810	PK NAIL
109	754,951.9310	2,344,488.4680	PK NAIL
110	755,158.5530	2,344,411.8960	PK NAIL
111	755,334.2990	2,343,986.1910	IRON ROD W/ IDOT CAP
112	755,132.0170	2,342,517.1970	IRON ROD W/ IDOT CAP
113	755,186.7390	2,345,099.9360	PK NAIL
114	755,055.0160	2,343,421.8110	PK NAIL
115	754,883.9490	2,343,169.0480	PK NAIL
116	754,856.4530	2,341,760.6110	IRON ROD W/ IDOT CAP

AMEREN COMMITMENT NOTICE

ON FEBRUARY 19, 2020, THE ILLINOIS DEPARTMENT OF TRANSPORTATION (DEPARTMENT) ISSUED PERMIT NO. 8-4000-1678 TO AMEREN ILLINOIS. THIS PERMIT WAS FOR THE CONSTRUCTION OF A 10-INCH DIAMETER GAS PIPELINE MAIN AND A 16-INCH DIAMETER GAS PIPELINE MAIN (MAINS), ACROSS THE INTERSECTION OF IL 162 AT IL 157, WHICH HAS BEEN COMPLETED. THIS PERMIT INCLUDED THE FOLLOWING COMMITMENT, BY THE DEPARTMENT TO AMEREN ILLINOIS:

THE DEPARTMENT WILL RETAIN A 50-FOOT WIDE PERMANENT GAS PIPELINE EASEMENT CENTERED OVER BOTH MAINS, FOR THE BENEFIT OF AMEREN ON ANY ADJACENT EXCESS PROPERTY AT THE IL 162 AT IL 157 INTERSECTION CURRENTLY OWNED BY THE DEPARTMENT. IN THE EVENT THAT THE DEPARTMENT SHOULD SELL OR TRANSFER OWNERSHIP OF ANY EXCESS PROPERTY, THE DEPARTMENT SHALL BE RESPONSIBLE FOR ALL COSTS OF RETAINING SAID EASEMENT.

PURSUANT TO THIS COMMITMENT, THE DEPARTMENT SHALL NOT RELEASE ANY LAND INTEREST WITHIN THAT PART OF THE 50-FOOT WIDE STRIP OF LAND CENTERED OVER BOTH THE MAINS, BETWEEN THE BEGINNING AND ENDING POINTS OF THIS COMMITMENT AS SHOWN ON SHEET 6, WHICH IS (1) WITHIN THE EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 162 AND ILLINOIS ROUTE 157; AND (2) WITHIN THE PROPOSED ACQUISITION PARCELS IDENTIFIED AS PARCELS 8003009, 8003013 AND 8003014.

PROFESSIONAL LAND SURVEYOR — NATHAN T. DOZIER — 035-003723 — SPRINGFIELD, ILLINOIS — STATE OF ILLINOIS

NATHAN T. DOZIER PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON. IN ADDITION THE SURVEYOR PHYSICALLY LOCATED IN THE FIELD THE FOLLOWING ITEMS DURING THE MONTH OF FEBRUARY, 2014:

1. BUILDINGS
2. BILLBOARDS/SIGNS
3. FENCES

PREPARED BY:

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
LEGEND & GENERAL NOTES

SHEET 2 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

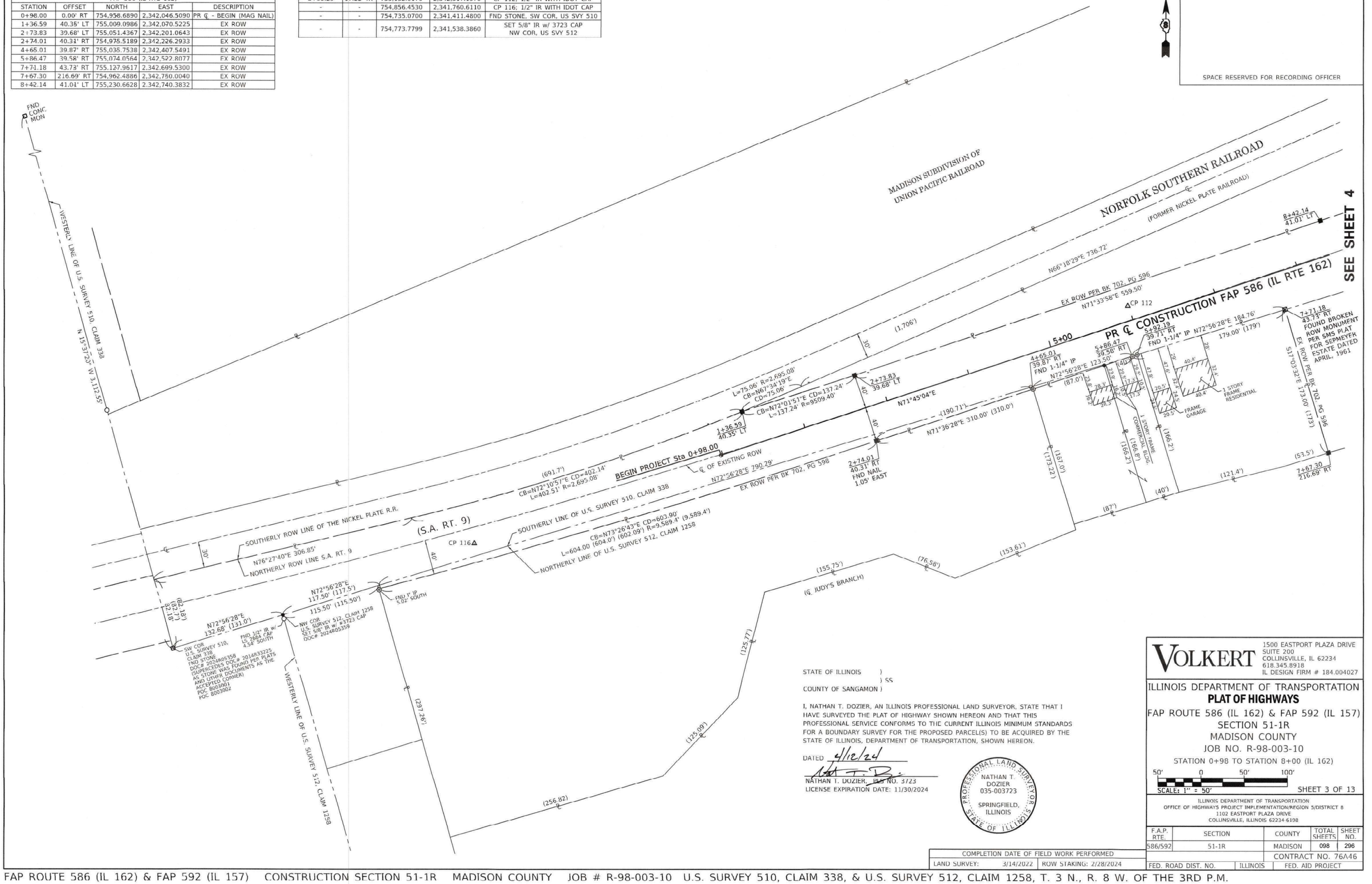
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	097	296
			CONTRACT NO. 76A46	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE FAP 586 (IL RTE 162)				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
0+98.00	0.00' RT	754,958.6890	2,342,046.5090	PR ℄ - BEGIN (MAG NAIL)
1+36.59	40.35' LT	755,009.0986	2,342,070.5225	EX ROW
2+73.83	39.68' LT	755,051.4367	2,342,201.0643	EX ROW
2+74.01	40.31' RT	754,975.5189	2,342,226.2933	EX ROW
4+65.01	39.87' RT	755,035.7538	2,342,407.5491	EX ROW
5+86.47	39.58' RT	755,074.0564	2,342,522.8077	EX ROW
7+71.18	43.73' RT	755,127.9617	2,342,699.5300	EX ROW
7+67.30	216.69' RT	754,962.4886	2,342,750.0040	EX ROW
8+42.14	41.01' LT	755,230.6628	2,342,740.3832	EX ROW

STATION	OFFSET	NORTH	EAST	DESCRIPTION
5+99.29	17.22' RT	755,132.0170	2,342,517.1970	CP 112; 1/2" IR WITH IDOT CAP
-	-	754,856.4530	2,341,760.6110	CP 116; 1/2" IR WITH IDOT CAP
-	-	754,735.0700	2,341,411.4800	FND STONE, SW COR, US SVY 510
-	-	754,773.7799	2,341,538.3860	SET 5/8" IR w/ 3723 CAP NW COR, US SVY 512

SPACE RESERVED FOR RECORDING OFFICER



STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/12/24

NATHAN T. DOZIER, ILL. NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 0+98 TO STATION 8+00 (IL 162)

50' 0 50' 100'
SCALE: 1" = 50'

SHEET 3 OF 13

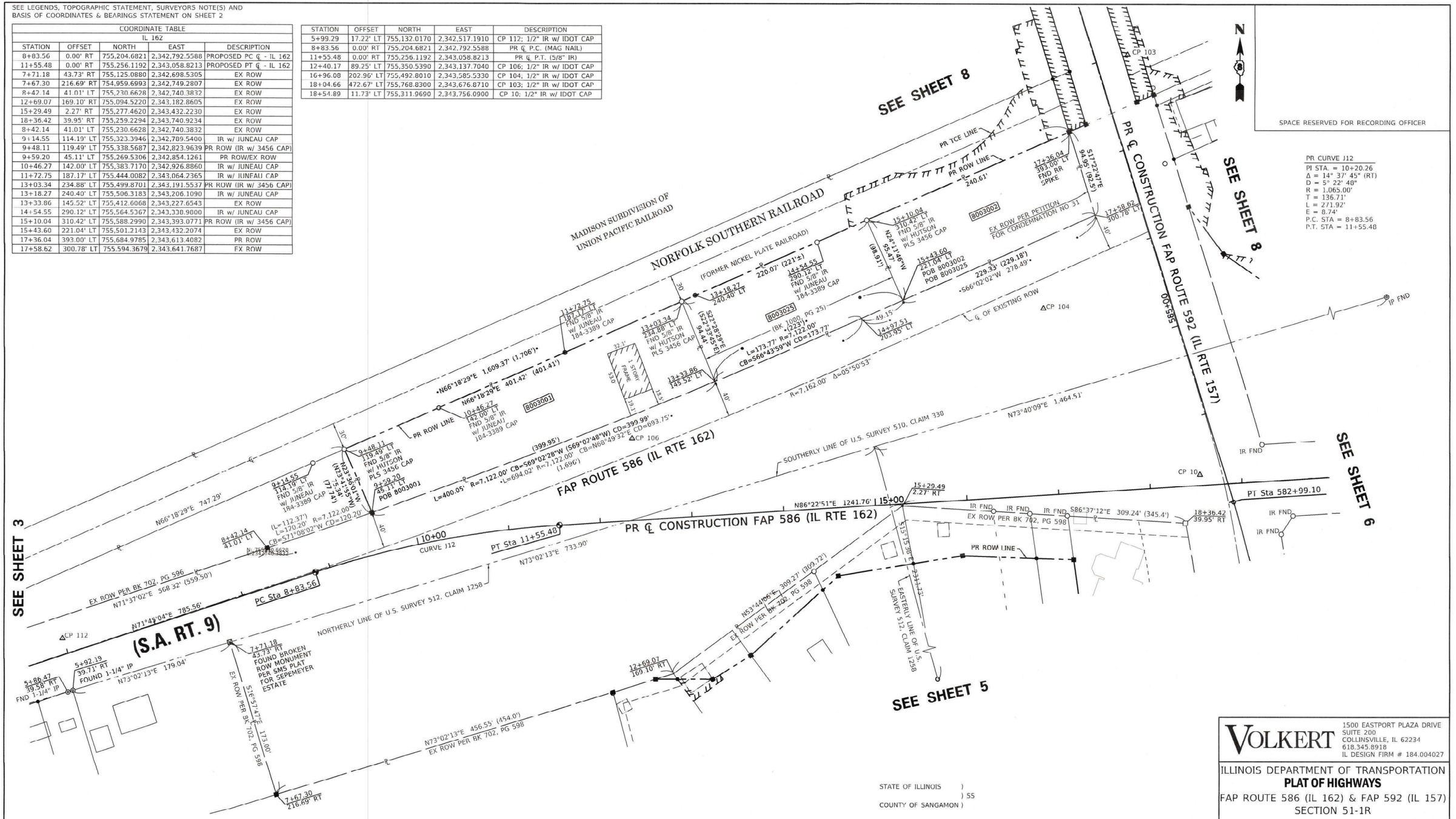
ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	098	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE IL 162				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
8+83.56	0.00' RT	755,204.6821	2,342,792.5588	PROPOSED PC ℄ - IL 162
11+55.48	0.00' RT	755,256.1192	2,343,058.8213	PROPOSED PT ℄ - IL 162
7+71.18	43.73' RT	755,125.0880	2,342,698.5305	EX ROW
7+67.30	216.69' RT	754,959.6993	2,342,749.2807	EX ROW
8+42.14	41.01' LT	755,230.6628	2,342,740.3832	EX ROW
12+69.07	169.10' RT	755,094.5220	2,343,182.8605	EX ROW
15+29.49	2.27' RT	755,277.4620	2,343,432.2230	EX ROW
18+36.42	39.95' RT	755,259.2294	2,343,740.9234	EX ROW
8+42.14	41.01' LT	755,230.6628	2,342,740.3832	EX ROW
9+14.55	114.19' LT	755,323.3946	2,342,789.5400	IR w/ JUNEAU CAP
9+48.11	119.49' LT	755,338.5687	2,342,823.9639	PR ROW (IR w/ 3456 CAP)
9+59.20	45.11' LT	755,269.5306	2,342,854.1261	PR ROW/EX ROW
10+46.27	142.00' LT	755,383.7170	2,342,926.8860	IR w/ JUNEAU CAP
11+72.75	187.17' LT	755,444.0082	2,343,064.2365	IR w/ JUNEAU CAP
13+03.34	234.88' LT	755,499.8701	2,343,191.5537	PR ROW (IR w/ 3456 CAP)
13+18.27	240.40' LT	755,506.3183	2,343,206.1090	IR w/ JUNEAU CAP
13+33.86	145.52' LT	755,412.6068	2,343,227.6543	EX ROW
14+54.55	290.12' LT	755,564.5367	2,343,330.9800	IR w/ JUNEAU CAP
15+10.04	310.42' LT	755,588.2990	2,343,393.0771	PR ROW (IR w/ 3456 CAP)
15+43.60	221.04' LT	755,501.2143	2,343,432.2074	EX ROW
17+36.04	393.00' LT	755,684.9785	2,343,613.4082	PR ROW
17+58.62	300.78' LT	755,594.3679	2,343,641.7687	EX ROW

STATION	OFFSET	NORTH	EAST	DESCRIPTION
5+99.29	17.22' LT	755,132.0170	2,342,517.1910	CP 112; 1/2" IR w/ IDOT CAP
8+83.56	0.00' RT	755,204.6821	2,342,792.5588	PR ℄ P.C. (MAG NAIL)
11+55.48	0.00' RT	755,256.1192	2,343,058.8213	PR ℄ P.T. (5/8" IR)
12+40.17	89.25' LT	755,350.5390	2,343,137.7040	CP 106; 1/2" IR w/ IDOT CAP
16+96.08	202.96' LT	755,492.8010	2,343,585.5330	CP 104; 1/2" IR w/ IDOT CAP
18+04.66	472.67' LT	755,768.8300	2,343,676.8710	CP 103; 1/2" IR w/ IDOT CAP
18+54.89	11.73' LT	755,311.9690	2,343,756.0900	CP 10; 1/2" IR w/ IDOT CAP



PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION						REMAINDER	EASEMENTS			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET			PE = PERMANENT TF = TEMPORARY		EASEMENT PURPOSE		
		ACRES	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.			
8003001	DONALD C. & DEBORAH J. KULASH IB-2009MA-4284.1	(0.8201) 2	(0.8201)	(35,722)	N/A	N/A	(0.8201)	(35,722)	(0.0000)	N/A	N/A	N/A	13-1-21-05-12-201-002	DOC# 2013R30548
8003002	RACHEL KENT, INDEPENDENT EXECUTOR OF THE ESTATE OF SHAHRIAR TORGOLI AKA SHAHRIAR TORGOLEY, DECEASED IB-2009MA-4266.0	0.5119 1	0.5119	22,300	N/A	N/A	0.5119	22,300	0.0000	N/A	N/A	N/A	13-1-21-04-09-101-002	
8003025	ESTELLA M. LEWIS (TRUSTEE) UNDER DECLARATON OF TRUST OF RUSSELL R. LEWIS IB-2009MA-4265.0	0.4854 1	0.4854	21,142	N/A	N/A	0.4854	21,142	0.0000	N/A	N/A	N/A	13-1-21-04-09-101-001 13-1-21-04-09-101-001.001	

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/12/24

NATHAN T. DOZIER PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 8+00 TO STATION 18+00 (IL 162)

50' 0 50' 100'
SCALE: 1" = 50'

SHEET 4 OF 13

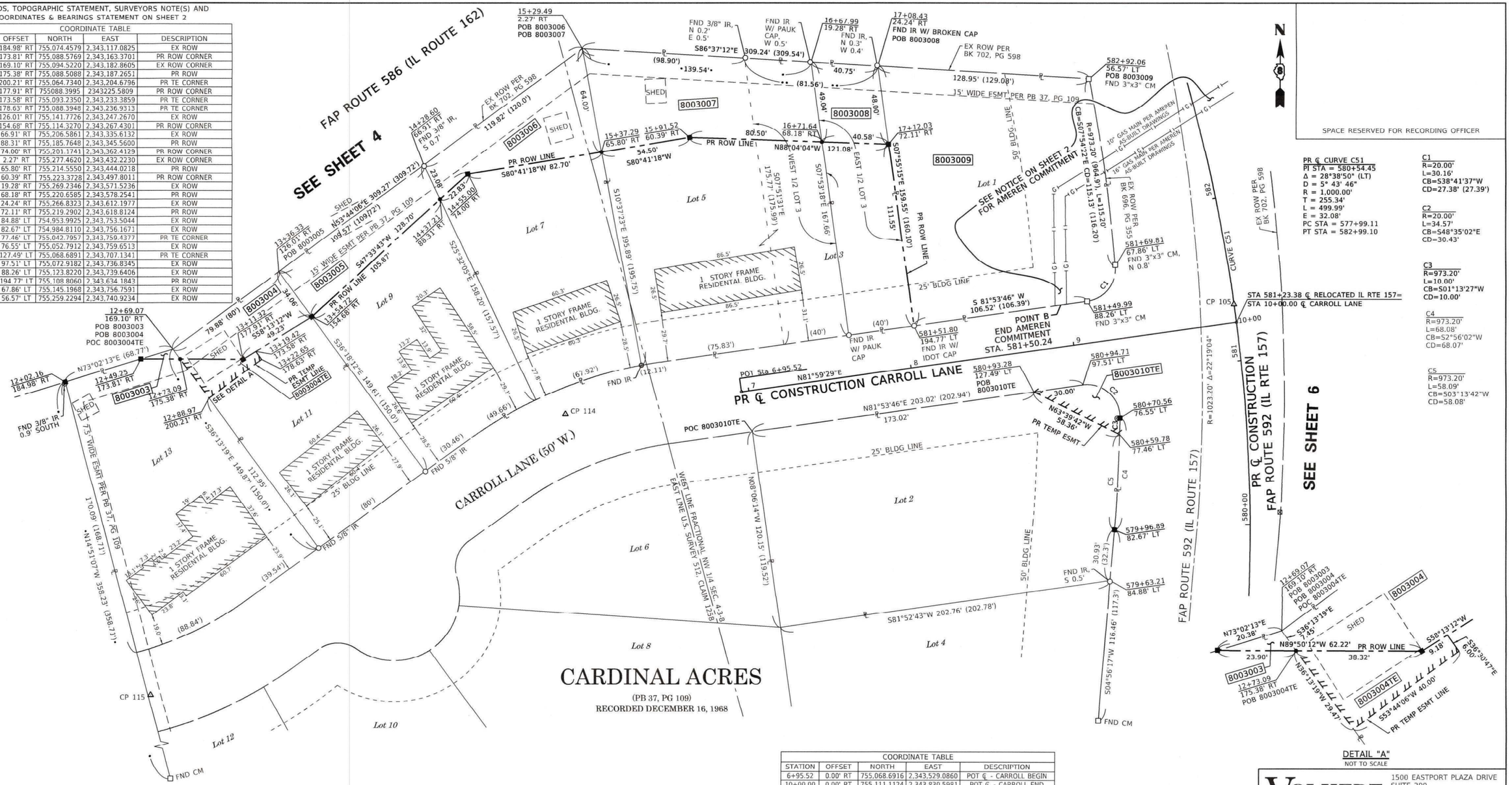
ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6190

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	099	296
			CONTRACT NO. 76A46	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST	DESCRIPTION
12+02.16	184.98' RT	755,074.4579	2,343,117.0825	EX ROW
12+49.25	173.81' RT	755,088.5769	2,343,163.3701	PR ROW CORNER
12+69.07	169.10' RT	755,094.5220	2,343,182.8605	EX ROW CORNER
12+73.09	175.38' RT	755,088.5088	2,343,187.2651	PR ROW
12+88.97	200.21' RT	755,064.7340	2,343,204.6796	PR TE CORNER
13+11.32	177.91' RT	755088.3995	2343225.5809	PR ROW CORNER
13+19.42	173.58' RT	755,093.2350	2,343,233.3859	PR TE CORNER
13+22.65	178.63' RT	755,088.3948	2,343,236.9313	PR TE CORNER
13+36.33	126.01' RT	755,141.7726	2,343,247.2670	EX ROW
13+54.72	154.68' RT	755,114.3270	2,343,267.4301	PR ROW CORNER
14+28.60	66.91' RT	755,206.5861	2,343,335.6132	EX ROW
14+37.21	88.31' RT	755,185.7648	2,343,345.5600	PR ROW
14+55.00	74.00' RT	755,201.1741	2,343,362.4129	PR ROW CORNER
15+29.49	2.27' RT	755,277.4620	2,343,432.2230	EX ROW CORNER
15+37.29	65.80' RT	755,214.5550	2,343,444.0218	PR ROW
15+91.52	60.39' RT	755,223.3728	2,343,497.8011	PR ROW CORNER
16+67.99	19.28' RT	755,269.2346	2,343,571.5236	EX ROW
16+71.64	68.18' RT	755,220.6585	2,343,578.2541	PR ROW
17+08.43	24.24' RT	755,266.8323	2,343,612.1977	EX ROW
17+12.03	72.11' RT	755,219.2902	2,343,618.8124	PR ROW
579+63.21	84.88' LT	754,953.9925	2,343,753.5044	EX ROW
579+96.89	82.67' LT	754,984.8110	2,343,756.1671	EX ROW
580+59.78	77.46' LT	755,042.7957	2,343,759.4377	PR TE CORNER
580+70.56	76.55' LT	755,052.7912	2,343,759.6513	EX ROW
580+93.28	127.49' LT	755,068.6891	2,343,707.1341	PR TE CORNER
580+94.71	97.51' LT	755,072.9182	2,343,736.8345	EX ROW
581+49.99	88.26' LT	755,123.8220	2,343,739.6406	EX ROW
581+51.80	194.77' LT	755,108.8060	2,343,634.1843	PR ROW
581+69.81	67.86' LT	755,145.1968	2,343,756.7591	EX ROW
582+92.06	56.57' LT	755,259.2294	2,343,740.9234	EX ROW



PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION GROSS		REMAINDER	EASEMENTS PE = PERMANENT TE = TEMPORARY			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.	EASEMENT PURPOSE		
8003003	MARVIN L. WALLACE I8-2009MA-4276.0	5 0.3646	0.0017	72	0.3629	N/A	N/A	N/A	13-2-21-05-12-201-005	
8003004	BRANDON HATFIELD & KELI HATFIELD, AS JOINT TENANTS I8-2009MA-4277.0	5 0.2759	0.0495	2,157	0.2264	TE= 0.0141	TE = 616	DEMOLITION & GRADING	13-2-21-05-12-201-006	
8003005	MELISSA A. HILLMER & KENDALL F. HILLMER, JR., WIFE & HUSBAND AS JOINT TENANTS I8-2009MA-4282.0	5 0.3315	0.0697	3,035	0.2618	N/A	N/A	N/A	13-2-21-04-09-101-009	
8003006	MACK V. COULTER, JR. AND/OR MARY F. COULTER, TRUSTEES OF THE COULTER LIVING TRUST DATED SEPTEMBER 8, 2021 I8-2009MA-4281.0	5 0.3628	0.0943	4,109	0.2685	N/A	N/A	N/A	13-2-21-04-09-101-008	
8003007	MICHAEL K. KNATAT & PATRICIA K. KNATAT, HIS WIFE, AS JOINT TENANTS I8-2009MA-4259.0	5 0.5495	0.1650	7,186	0.3845	N/A	N/A	N/A	13-2-21-04-09-101-007	
8003008	ROGER MAYO I8-2009MA-4260.0	5 0.1502	0.0445	1,939	0.1057	N/A	N/A	N/A	13-2-21-04-09-101-005	
8003009	ALLEN KEILMAN & KRISTIN L. KEILMAN, HUSBAND AND WIFE, AS TENANTS BY ENTIRETY I8 2009MA 4280.0	1 0.4269	0.4269	18,596	0.0000	N/A	N/A	N/A	13-2-21-04-09-101-005.001	DOC# 2015R40103
8003010	JORDAN PARK & KRISTA FACKRELL, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY I8 2009MA 4279.0	5 0.5917	N/A	N/A	0.5917	TE = 0.0174	TE = 760	GRADING	13-2-21-04-09-101-013	

*SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST	DESCRIPTION
6+95.52	0.00' RT	755,068.6916	2,343,529.0860	POT ℄ - CARROLL BEGIN
10+00.00	0.00' RT	755,111.1124	2,343,830.5981	POT ℄ - CARROLL END
12+42.00	378.39' RT	754,883.9490	2,343,169.0480	CP115; PK NAIL
15+05.50	223.62' RT	755,055.0160	2,343,421.8110	CP114; PK NAIL
581+34.46	0.11' LT	755,122.0780	2,343,829.0130	CP 105; IR w/ IDOT CAP

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/12/24

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR NATHAN T. DOZIER 035-003723 SPRINGFIELD, ILLINOIS STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED

LAND SURVEY:	3/14/2022	ROW STAKING:	2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 12+00 TO STATION 18+00 (IL 162)

30' 0 30' 60'
SCALE: 1" = 30'

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51 1R	MADISON	100	296
			CONTRACT NO. 76A46	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE - IL 162

STATION	OFFSET	NORTH	EAST	DESCRIPTION
19+53.53	39.54' RT	755,267.0312	2,343,857.7739	EX ROW CORNER
19+95.29	175.23' LT	755,484.0097	2,343,885.8893	NE COR, BK 216, PG 551
20+01.58	147.43' LT	755,456.6679	2,343,893.9255	PR ROW CORNER
20+19.12	70.00' LT	755,380.4972	2,343,916.3131	PR ROW CORNER
20+25.48	182.04' LT	755,492.7137	2,343,915.5955	PR ROW CORNER
20+30.00	65.52' LT	755,376.7174	2,343,927.4585	PR ROW CORNER
20+80.00	65.57' LT	755,379.9167	2,343,977.3561	PR TE CORNER
20+80.00	70.57' LT	755,384.9085	2,343,977.0403	PR TE CORNER
21+20.00	65.60' LT	755,382.4793	2,344,017.2739	PR ROW/PR TE CORNER
21+20.00	70.60' LT	755,387.4693	2,344,016.9583	PR TE CORNER
21+15.00	69.40' RT	755,247.4284	2,344,020.8062	PR TE CORNER
21+15.00	89.40' RT	755,227.4682	2,344,022.0687	PR TE CORNER
21+75.00	69.35' RT	755,251.2696	2,344,080.6831	PR ROW/PR TE CORNER
21+75.00	89.35' RT	755,231.3095	2,344,081.9456	PR TE CORNER
22+05.00	39.32' RT	755,283.1304	2,344,108.7278	PR ROW CORNER
21+97.00	60.54' LT	755,382.2877	2,344,094.4399	PR PE CORNER
22+02.00	75.25' LT	755,397.2777	2,344,098.5018	PR PE CORNER
22+10.42	100.00' LT	755,422.5134	2,344,105.3399	PR TE CORNER
22+34.68	100.00' LT	755,424.0452	2,344,129.5569	PR TE CORNER
22+49.00	72.16' LT	755,397.1607	2,344,145.6031	PR PE CORNER
22+57.00	56.60' LT	755,382.1384	2,344,154.5693	PR PE CORNER
23+29.51	39.21' RT	755,291.1017	2,344,232.9853	EX ROW
23+29.52	44.21' RT	755,286.1120	2,344,233.3054	PR TE CORNER
23+82.58	39.16' RT	755,294.4991	2,344,285.9438	EX ROW CORNER
25+50.00	40.26' RT	755,296.1187	2,344,449.2144	EX ROW
25+50.00	45.26' RT	755,291.1224	2,344,449.0193	PR TE CORNER
24+94.70	44.06' LT	755,381.5400	2,344,395.5929	PR ROW

COORDINATE TABLE - IL 162

STATION	OFFSET	NORTH	EAST	DESCRIPTION
26+15.03	43.46' LT	755,375.7118	2,344,519.2664	PR TE CORNER
26+20.91	66.02' LT	755,397.6800	2,344,527.2446	PR TE CORNER
26+25.58	43.42' LT	755,374.7418	2,344,530.0897	PR ROW CORNER
26+26.43	39.42' LT	755,370.6773	2,344,530.5939	EX ROW
26+40.00	66.00' LT	755,395.8112	2,344,547.0951	PR TE CORNER
26+54.95	39.33' LT	755,367.6801	2,344,559.7140	EX ROW
26+59.09	40.68' RT	755,287.7015	2,344,554.9948	EX ROW CORNER
27+09.15	50.77' RT	755,271.4600	2,344,601.8225	EX ROW CORNER
27+51.10	39.19' LT	755,353.6361	2,344,657.3668	EX ROW
29+27.23	50.51' RT	755,226.1021	2,344,807.3883	EX ROW
29+00.95	39.40' LT	755,319.7447	2,344,807.3064	EX ROW

COORDINATE TABLE - IL 157

STATION	OFFSET	NORTH	EAST	DESCRIPTION
579+88.23	16.98' RT	754,976.2030	2,343,855.7960	EX ROW
580+40.00	80.00' RT	755,031.6833	2,343,917.7424	PR TE CORNER
580+40.00	130.06' RT	755,033.9407	2,343,967.7479	PR TE CORNER
580+50.00	80.00' RT	755,042.4668	2,343,917.2016	PR ROW CORNER
580+81.20	80.53' RT	755,076.1183	2,343,915.3452	PR TE CORNER
580+79.82	130.50' RT	755,078.8725	2,343,965.2693	PR TE CORNER
581+86.52	90.14' RT	755,190.6036	2,343,909.0296	PR ROW CORNER
581+90.13	171.50' RT	755,210.2574	2,343,988.0873	PR TE CORNER
581+99.44	94.37' RT	755,205.2733	2,343,910.3943	PR TE CORNER
582+19.63	176.63' RT	755,245.1876	2,343,985.8779	PR TE CORNER
582+23.84	146.84' RT	755,243.2551	2,343,955.7527	PR ROW CORNER
582+51.86	40.10' RT	755,247.3237	2,343,844.7903	EX ROW CORNER
583+21.03	3.80' LT	755,302.2992	2,343,782.7297	EX ℄-℄ IL 157 & IL 162
583+49.53	47.96' RT	755,345.0015	2,343,823.5710	EX ROW CORNER
584+65.41	49.04' RT	755,455.8838	2,343,789.8971	EX ROW
584+66.37	0.96' LT	755,441.8224	2,343,741.9063	EX ℄/S. LINE US SVY 510

COORDINATE TABLE - ℄ & CONTROL

18+54.89	11.72' LT	755,311.9690	2,343,756.0900	CP 10; IR w/ IDOT CAP
20+85.94	19.48' LT	755,334.2990	2,343,986.1910	CP 111; IR w/ IDOT CAP
21+36.00	180.36' RT	755,138.0120	2,344,048.7670	CP 107; IR w/ IDOT CAP
26+80.11	17.48' LT	755,342.9730	2,344,582.6070	CP 11; IRON ROD
581+34.46	0.11' LT	755,122.0780	2,343,829.0130	CP 105; IR w/ IDOT CAP
23+97.24	0.00' RT	755,334.5064	2,344,298.1064	PC ℄ - IL 162
31+56.52	0.00' RT	755,192.0705	2,345,035.6243	PT ℄ - IL 162
10+00.00	0.00' RT	755,111.1124	2,343,830.5981	POT ℄ - CARROLL END
582+99.10	0.00' LT	755,282.5202	2,343,792.9245	PT ℄ - IL 157
583+19.69	0.00' LT	755,302.1626	2,343,786.7576	PR ℄-℄ IL 157 & IL 162

SEE SHEET 8

SEE SHEET 7

SEE SHEET 11 FOR CONTIGUOUS PARCEL

SEE NOTICE ON SHEET 2 FOR AMEREN COMMITMENT

SEE NOTICE ON SHEET 2 FOR AMEREN COMMITMENT

SPACE RESERVED FOR RECORDING OFFICER

PR ℄ CURVE C51
PI STA = 580+54.45
Δ = 28°38'50"(LT)
D = 05°43'46"
R = 1,000.00'
T = 255.34'
L = 499.99'
E = 32.08'
PC STA = 577+99.11
PT STA = 582+99.10

PR ℄ CURVE J2
PI STA = 27+85.26
Δ = 29°06'01"(RT)
D = 03°49'57"
R = 1,494.96'
T = 388.02'
L = 759.28'
E = 49.53'
PC STA = 23+97.24
PT STA = 31+56.52

C6
R=1,588.53'
L=29.27'
CB=N84°07'25"W
CD=29.27'

C7
R=1,592.53'
L=10.87'
CB=N84°52'43"W
CD=10.87'

C8
R=1,588.53' (1,588.8')
L=250.06'
CB=N89°09'40"W
CD=249.80'

C9
R=1,592.53'
L=134.71'
CB=S87°06'23"E
CD=134.67'

C10
R = 1023.20'
L = 74.57' (76.10')
CB = N15°17'30"W
CD = 74.56'

C11
R = 1073.20'
L = 45.97' (48.11')
CB = N16°09'10"W
CD = 45.97'

C12
R = 50.00'
L = 78.09'
CB = S41°35'09"W
CD = 70.39'

C13
R = 1,080.00'
L = 10.80'
CB = N02°52'16"W
CD = 10.80'

C14
R = 1,080.00'
L = 285.96'
CB = N05°00'02"W
CD = 285.13'

DETAIL A
NOT TO SCALE

DETAIL B
NOT TO SCALE

DETAIL C
NOT TO SCALE

DETAIL D
NOT TO SCALE

DETAIL E
NOT TO SCALE

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET		REMAINDER	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.			
8003012	RICHARD G. IBERG AS TRUSTEE UNDER DECLARATION OF TRUST OF RICHARD G. IBERG, DATED APRIL 19, 1999 AS TO AN UNDIVIDED ½ INTEREST & JUNE M. IBERG AS TRUSTEE UNDER DECLARATION OF TRUST OF JUNE M. IBERG, DATED APRIL 16, 1999 AS TO AN UNDIVIDED ½ INTEREST 18-2009MA-4258.0	19.1642 [5]	1.1357	49,471	N/A	N/A	1.1357	49,471	18.0285	TE-A = 0.0465 TE-B = 0.0184 TE-C = 0.0514 TE-D = 0.0524 TE-E = 0.0275 TE-F = 0.0357	TE-A = 2,027 TE-B = 803 TE-C = 2,238 TE-D = 2,281 TE-E = 1,200 TE-F = 1,554	TE-A: ENTRANCE CONSTRUCTION & GRADING TE-B: REMOVAL OF TRAILERS TE-C/D: DEMOLITION & GRADING TE-E: ENTRANCE CONSTRUCTION & GRADING TE-F: CONSTRUCTION & GRADING	13-1-21-04-00-000-024.001 13-1-21-04-00-000-024	
8003013	AMEREN ILLINOIS COMPANY D/B/A AMEREN ILLINOIS, AN ILLINOIS CORPORATION, SUCCESSOR BY MERGER TO ILLINOIS POWER COMPANY 18-2009MA-4264.0	0.5562 [1]	0.5562	24,229	0.2672	11,639	0.2890	12,590	0.0000	N/A	N/A	N/A	13-1-21-04-09-101-004	
8003014	AMEREN ILLINOIS COMPANY D/B/A AMEREN ILLINOIS, AN ILLINOIS CORPORATION 18-2009MA-4261.0, 18-2014MA-4781.0	5.7980 [5]	A = 0.1799 B = 0.0101	A = 7,836 B = 441	N/A	N/A	0.1900	8,277	5.6080	TE-A = 0.0214 TE-B = 0.0178 TE-C = 0.0046 PE = 0.0185	TE-A = 933 TE-B = 777 TE-C = 200 PE = 804	TE-A: CONSTRUCTION & GRADING TE-B/C: DRIVEWAY CONSTRUCTION & GRADING PE: CONSTRUCTION, GRADING & MAINTENANCE	13-1-21-04-00-000-024.002 13-1-21-04-00-000-024.003 13-1-21-04-00-000-002.012	

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/18/24

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 18+00 TO STATION 31+00 (IL 162)

50' 0 50' 100'
SCALE: 1" = 50'

SHEET 6 OF 13

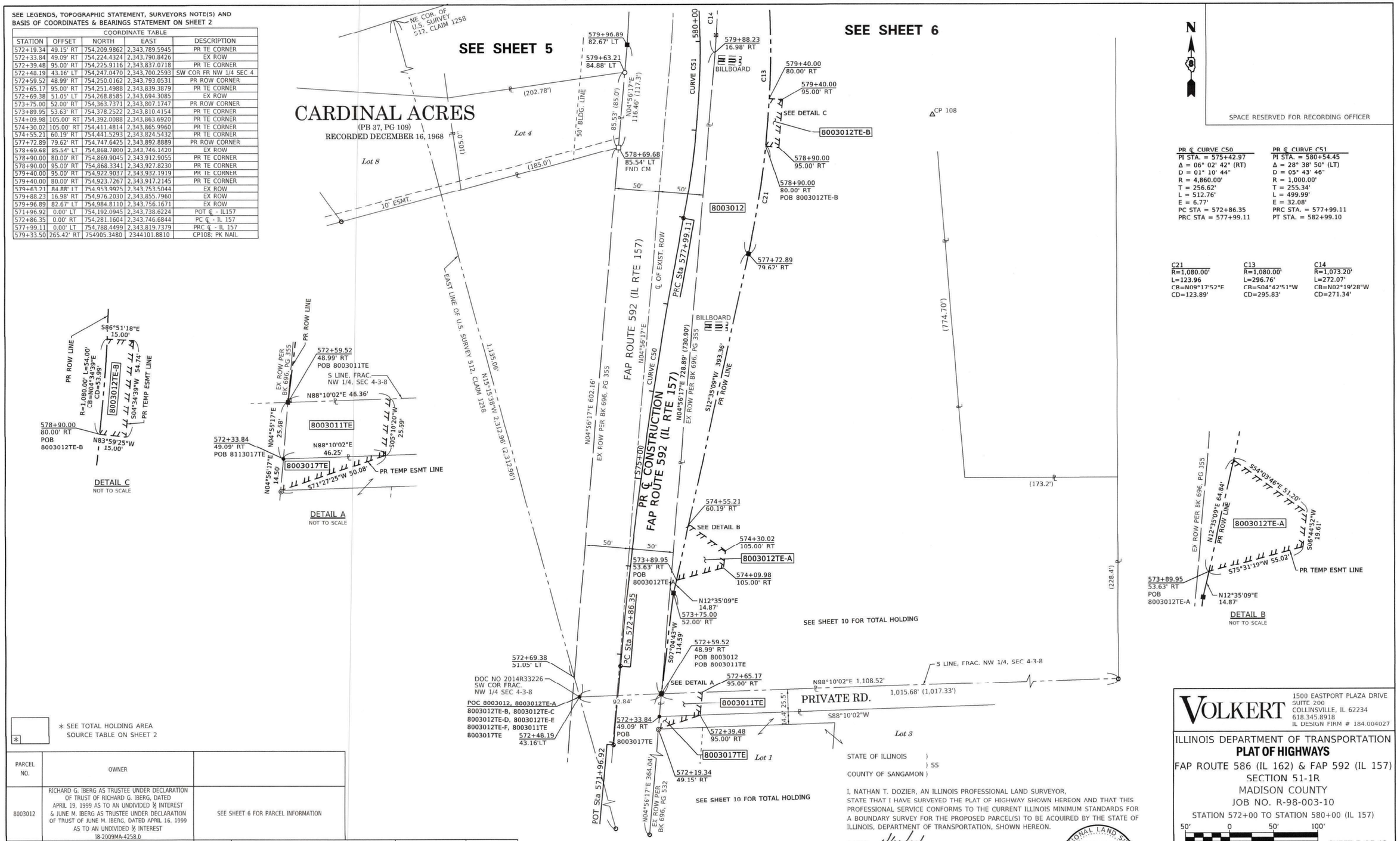
ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	101	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	3/14/2022	ROW STAKING:	2/28/2024

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
572+19.34	49.15' RT	754,209.9862	2,343,789.5945	PR TE CORNER
572+33.84	49.09' RT	754,224.4324	2,343,790.8426	EX ROW
572+39.48	95.00' RT	754,225.9116	2,343,837.0718	PR TE CORNER
572+48.19	43.16' LT	754,247.0470	2,343,700.2593	SW COR FR NW 1/4 SEC 4
572+59.52	48.99' RT	754,250.0162	2,343,793.0531	PR ROW CORNER
572+65.17	95.00' RT	754,251.4988	2,343,839.3879	PR TE CORNER
572+69.38	51.05' LT	754,268.8585	2,343,694.3085	EX ROW
573+75.00	52.00' RT	754,363.7371	2,343,807.1747	PR ROW CORNER
573+89.95	53.63' RT	754,378.2522	2,343,810.4154	PR TE CORNER
574+09.98	105.00' RT	754,392.0088	2,343,863.6920	PR TE CORNER
574+30.02	105.00' RT	754,411.4814	2,343,865.9960	PR TE CORNER
574+55.21	60.19' RT	754,441.5293	2,343,824.5432	PR TE CORNER
577+72.89	79.62' RT	754,747.6425	2,343,892.8889	PR ROW CORNER
578+69.68	85.54' LT	754,868.7800	2,343,746.1420	EX ROW
578+90.00	80.00' RT	754,869.9045	2,343,912.9055	PR TE CORNER
578+90.00	95.00' RT	754,868.3341	2,343,927.8230	PR TE CORNER
579+40.00	95.00' RT	754,922.9037	2,343,932.1919	PR TE CORNER
579+40.00	80.00' RT	754,923.7267	2,343,917.2145	PR TE CORNER
579+63.21	84.88' LT	754,953.9925	2,343,753.5044	EX ROW
579+88.23	16.98' RT	754,976.2030	2,343,855.7960	EX ROW
579+96.89	82.67' LT	754,984.8110	2,343,756.1671	EX ROW
571+96.92	0.00' LT	754,192.0945	2,343,738.6224	POT ℄ - IL157
572+86.35	0.00' RT	754,281.1604	2,343,746.6844	PC ℄ - IL 157
577+99.11	0.00' LT	754,788.4499	2,343,819.7379	PRC ℄ - IL 157
579+33.50	265.42' RT	754905.3480	2344101.8810	CP108; PK NAIL



PR ℄ CURVE C50
PI STA. = 575+42.97
Δ = 06° 02' 42" (RT)
D = 01° 10' 44"
R = 4,860.00'
T = 256.62'
L = 512.76'
E = 6.77'
PC STA = 572+86.35
PRC STA = 577+99.11

PR ℄ CURVE C51
PI STA. = 580+54.45
Δ = 28° 38' 50" (LT)
D = 05° 43' 46"
R = 1,000.00'
T = 255.34'
L = 499.99'
E = 32.08'
PRC STA. = 577+99.11
PT STA. = 582+99.10

C21	C13	C14
R=1,080.00'	R=1,080.00'	R=1,073.20'
L=123.96	L=296.76'	L=272.07'
CB=N09°17'52"E	CB=S04°42'51"W	CB=N02°19'28"W
CD=123.89'	CD=295.83'	CD=271.34'

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	
8003012	RICHARD G. IBERG AS TRUSTEE UNDER DECLARATION OF TRUST OF RICHARD G. IBERG, DATED APRIL 19, 1999 AS TO AN UNDIVIDED ½ INTEREST & JUNE M. IBERG AS TRUSTEE UNDER DECLARATION OF TRUST OF JUNE M. IBERG, DATED APRIL 16, 1999 AS TO AN UNDIVIDED ½ INTEREST I8-2009MA-4258.0	SEE SHEET 6 FOR PARCEL INFORMATION

PARCEL NO.	OWNER	TOTAL HOLDING	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.			
8003011	HARRY J. JOHNSON, JR. & JEANMARIE JOHNSON AS JOINT TENANTS I8-2013MA-4767.0	2.1997 [1]	TE = 0.0271	TE = 1,181	ENTRANCE CONSTRUCTION & GRADING	13-2-21-04-13-301-009	
8003017	MARY R. RUDER, TRUSTEE OF THE MARY R. RUDER REVOCABLE TRUST, U/T/A DATED SEPTEMBER 8, 1999 I8-2013MA-4768.0	4.0584 [1]	TE = 0.0076	TE = 333	GRADING	13-2-21-04-13-301-006	

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/14/22

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR NATHAN T. DOZIER 035-003723 SPRINGFIELD, ILLINOIS STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 572+00 TO STATION 580+00 (IL 157)

50' 0 50' 100'
SCALE: 1" = 50'

SHEET 7 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	102	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST	DESCRIPTION
584+62.90	180.00' RT	755,492.7137	2,343,915.5955	PR ROW CORNER
584+65.41	49.04' RT	755,455.8838	2,343,789.8971	EX ROW
585+15.00	180.00' RT	755,542.4218	2,343,899.9893	PR ROW CORNER
585+15.00	160.00' RT	755,536.4310	2,343,880.9076	PR TE CORNER
585+15.00	105.00' RT	755,519.9562	2,343,828.4330	PR ROW CORNER
585+60.00	70.00' RT	755,552.4068	2,343,781.5617	PR ROW CORNER
585+90.00	59.59' RT	755,577.9100	2,343,762.6416	PR TE CORNER
586+20.00	49.18' RT	755,603.4136	2,343,743.7213	PR ROW CORNER
586+30.09	80.00' RT	755,622.2769	2,343,770.1069	PR TE CORNER
586+41.91	50.80' LT	755,594.3679	2,343,641.7687	EX ROW
586+55.00	80.00' RT	755,646.0368	2,343,762.6473	PR TE CORNER
586+55.00	75.00' RT	755,644.5391	2,343,757.8769	PR TE CORNER
586+74.75	49.22' RT	755,655.6684	2,343,727.3659	EX ROW
586+99.83	63.73' RT	755,683.9384	2,343,733.6926	PR TE CORNER
587+00.25	71.85' RT	755,686.7728	2,343,741.3169	PR TE CORNER
587+08.40	310.00' LT	755,580.1697	2,343,374.5561	PR TE CORNER
587+34.11	62.02' RT	755,716.1277	2,343,721.7957	PR TE CORNER
587+34.19	75.00' LT	755,675.1640	2,343,591.0417	PR TE CORNER
587+35.26	81.46' RT	755,723.0534	2,343,739.9925	PR TE CORNER
587+35.75	49.28' RT	755,713.8835	2,343,709.1450	EX ROW
587+36.85	50.72' LT	755,684.9785	2,343,613.4082	PR PE CORNER
587+39.05	30.72' LT	755,693.0639	2,343,631.8343	PR PE CORNER
587+44.16	305.00' LT	755,615.7842	2,343,368.6153	PR TE CORNER
587+45.63	29.29' RT	755,717.3201	2,343,687.1126	PR PE CORNER
587+47.83	49.29' RT	755,725.4055	2,343,705.5386	PR PE CORNER
587+50.68	245.62' LT	755,639.7872	2,343,423.3166	PR TE CORNER
587+51.16	149.51' LT	755,669.0401	2,343,514.8725	PR TE CORNER
587+51.25	80.51' RT	755,738.0275	2,343,734.3033	PR TE CORNER
587+60.00	80.00' RT	755,746.2175	2,343,731.1915	PR TE CORNER
587+75.00	55.00' RT	755,753.0408	2,343,702.8481	PR TE CORNER
587+75.00	75.00' LT	755,714.0976	2,343,578.8182	PR TE CORNER
587+75.00	80.00' LT	755,712.5999	2,343,574.0478	PR TE CORNER
587+84.63	103.76' LT	755,714.6748	2,343,548.4946	PR TE CORNER
587+92.49	93.75' LT	755,725.1764	2,343,555.6906	PR TE CORNER
587+94.00	80.00' LT	755,730.7334	2,343,568.3547	PR TE CORNER
587+97.36	80.00' LT	755,733.9222	2,343,567.3516	PR TE CORNER
587+97.22	50.67' LT	755,742.5905	2,343,595.3761	PR PE CORNER
587+99.42	30.67' LT	755,750.6759	2,343,613.8021	PR TE CORNER
588+25.00	55.00' RT	755,800.7450	2,343,687.8711	PR TE CORNER
588+25.00	49.36' RT	755,799.0546	2,343,682.4870	PR TE CORNER
588+40.00	80.00' LT	755,774.6153	2,343,554.5776	PR TE CORNER
588+40.00	75.00' LT	755,776.1131	2,343,559.3480	PR TE CORNER
588+65.00	75.00' LT	755,799.9686	2,343,551.8584	PR TE CORNER
588+65.00	50.61' LT	755,807.2750	2,343,575.1303	PR TE CORNER
589+15.66	29.44' RT	755,879.5883	2,343,636.3238	PR PE CORNER
589+17.86	49.49' RT	755,887.6737	2,343,654.7498	PR PE CORNER
589+40.00	50.54' LT	755,878.8503	2,343,552.7277	PR TE CORNER
589+40.00	60.00' LT	755,876.0173	2,343,543.7043	PR TE CORNER
589+50.00	49.47' RT	755,910.3406	2,343,645.1400	PR PE CORNER
589+50.00	59.47' RT	755,921.3440	2,343,654.6897	PR PE CORNER
589+50.00	74.47' RT	755,925.8371	2,343,669.0009	PR TE CORNER
589+82.06	29.49' RT	755942.9554	2343616.4903	PR PE CORNER
589+84.17	49.50' RT	755950.9579	2343634.9423	PR PE CORNER
589+84.75	60.00' LT	755918.7170	2343530.2984	PR TE CORNER
589+85.22	59.50' RT	755954.9591	2343644.1684	PR PE CORNER
589+85.61	50.50' LT	755922.3820	2343539.1026	PR PE CORNER
589+86.80	74.50' RT	755960.9610	2343658.0074	PR TE CORNER
589+87.42	30.50' LT	755930.1002	2343557.6436	PR PE CORNER
587+97.85	34.95' RT	755,768.8300	2,343,676.8710	CP 103; IR w/ IDOT CAP

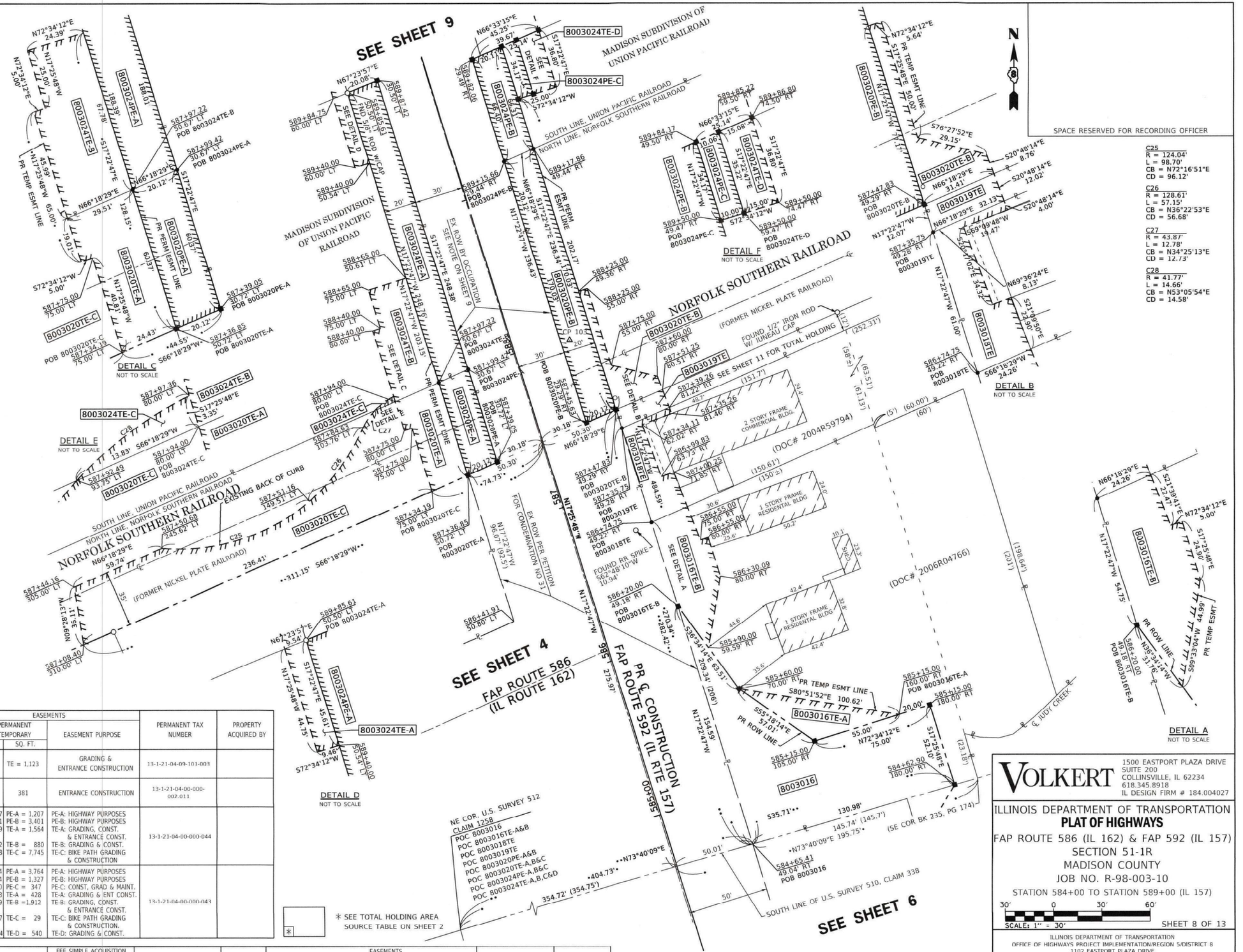
STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY OF THE EXISTING RIGHT OF WAY, SHOWN HEREON.

DATED 4/12/24

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR · NATHAN T. DOZIER · 035-003723 · SPRINGFIELD, ILLINOIS · STATE OF ILLINOIS



C25
R = 124.04'
L = 98.70'
CB = N72°16'51"E
CD = 96.12'

C26
R = 128.61'
L = 57.15'
CB = N36°22'53"E
CD = 56.68'

C27
R = 43.87'
L = 12.78'
CB = N34°25'13"E
CD = 12.73'

C28
R = 41.77'
L = 14.66'
CB = N53°05'54"E
CD = 14.58'

PARCEL NO.	OWNER	TOTAL HOLDING	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.			
8003018	JAN GITCHO I8-2009MA-4262.0	1.4345 1	TE = 0.0258	TE = 1,123	GRADING & ENTRANCE CONSTRUCTION	13-1-21-04-09-101-003	
8003019	ROGER MEIER & REBECCA MEIER, HUSBAND AND WIFE, AS JOINT TENANTS I8-2010MA-4352.0	16.4993 1	TE = 0.0087	381	ENTRANCE CONSTRUCTION	13-1-21-04-00-000-002.011	
8003020	MADISON COUNTY MASS TRANSIT DISTRICT I8-2010MA-4353.0 (SCH. A, PARCEL I)	N/A 1	PE-A = 0.0277 PE-B = 0.0781 TE-A = 0.0359 TE-B = 0.0202 TE-C = 0.1778	PE-A = 1,207 PE-B = 3,401 TE-A = 1,564 TE-B = 880 TE-C = 7,745	PE-A: HIGHWAY PURPOSES PE-B: HIGHWAY PURPOSES TE-A: GRADING, CONST. & ENTRANCE CONST. TE-B: GRADING & CONST. TE-C: BIKE PATH GRADING & CONSTRUCTION	13-1-21-04-00-000-044	
8003024	MADISON COUNTY MASS TRANSIT DISTRICT I8-2010MA-4353.0 (SCH. A, PARCEL II)	N/A 1	PE-A = 0.0864 PE-B = 0.0304 PE-C = 0.0080 TE-A = 0.0098 TE-B = 0.0439 TE-C = 0.0007 TE-D = 0.0124	PE-A = 3,764 PE-B = 1,327 PE-C = 347 TE-A = 428 TE-B = 1,912 TE-C = 29 TE-D = 540	PE-A: HIGHWAY PURPOSES PE-B: HIGHWAY PURPOSES PE-C: CONST, GRAD & MAINT. TE-A: GRADING & ENT CONST. TE-B: GRADING, CONST. & ENTRANCE CONST. TE-C: BIKE PATH GRADING & CONSTRUCTION. TE-D: GRADING & CONST.	13-1-21-04-00-000-043	

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET		REMAINDER	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.			
8003016	A LIFE ESTATE IN ELWOOD J. FOEHRKOLB, REMAINDER INTEREST IN KEVIN J. FOEHRKOLB I8-2009MA-4263.0	1.0284 1	0.2069	9,012	N/A	N/A	0.2069	9,012	0.8215	TE-A = 0.0284 TE-B = 0.0451	TE-A = 1,238 TE-B = 1,965	TE-A: GRADING TE-B: GRADING/ENT. CONST.	13-1-21-04-09-101-003.001	

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 584+00 TO STATION 589+00 (IL 157)
30' 0 30' 60'
SCALE: 1" = 30'
SHEET 8 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

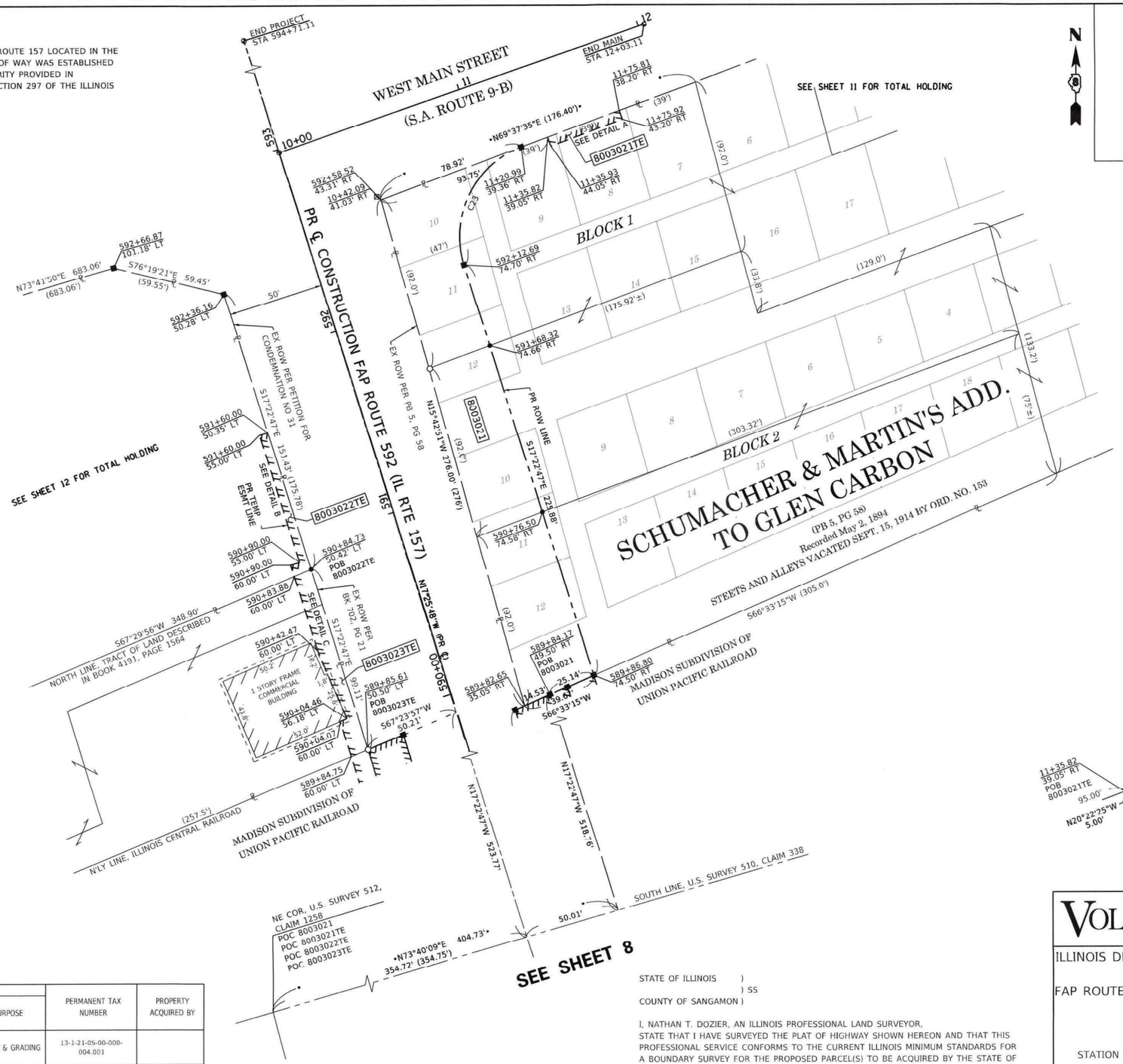
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	103	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

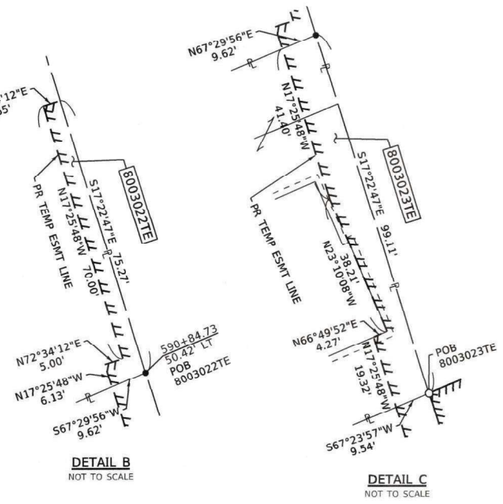
COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

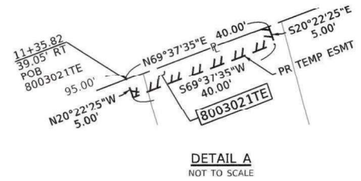
SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
589+82.65	35.05' RT	755,945.1780	2,343,621.6151	EX ROW
589+84.17	49.50' RT	755,950.9579	2,343,634.9423	PR PE CORNER
589+86.80	74.50' RT	755,960.9610	2,343,658.0074	PR ROW CORNER
589+84.75	60.00' LT	755,918.7170	2,343,530.2984	PR TE CORNER
589+85.61	50.50' LT	755,922.3820	2,343,539.1026	EX ROW
590+04.07	60.00' LT	755,937.1464	2,343,524.5124	PR TE CORNER
590+04.46	56.18' LT	755,938.6603	2,343,528.0415	PR TE CORNER
590+42.47	60.00' LT	755,973.7868	2,343,513.0088	PR TE CORNER
590+76.50	74.58' RT	756,046.5585	2,343,631.2160	PR ROW
590+83.88	60.00' LT	756,013.2883	2,343,500.6070	PR TE CORNER
590+84.73	50.42' LT	756,016.9709	2,343,509.4969	EX ROW
590+90.00	60.00' LT	756,019.1345	2,343,498.7716	PR TE CORNER
590+90.00	55.00' LT	756,020.6322	2,343,503.5420	PR TE CORNER
591+60.00	55.00' LT	756,087.4133	2,343,482.5756	PR TE CORNER
591+60.00	50.35' LT	756,088.8065	2,343,487.0129	PR TE CORNER
591+68.32	74.66' RT	756,134.1877	2,343,603.7886	PR ROW
592+12.69	74.70' RT	756,176.5301	2,343,590.5358	PR ROW CORNER
592+36.16	50.28' LT	756,161.4862	2,343,464.2646	EX ROW CORNER
592+58.52	43.31' RT	756,210.8625	2,343,546.8639	EX ROW CORNER
592+66.87	101.18' LT	756,175.5431	2,343,406.5022	EX ROW CORNER
594+71.11	0.00' RT	756,400.7117	2,343,441.8603	POT ℄ - IL 157 END
11+20.99	39.36' RT	756238.3374	2343620.8461	PR ROW CORNER
11+35.82	39.05' RT	756243.5006	2343634.7491	PR TE CORNER
11+35.93	44.05' RT	756238.8134	2343636.4898	PR TE CORNER
11+75.81	38.20' RT	756257.4262	2343672.2468	PR TE CORNER
11+75.92	43.20' RT	756252.7390	2343673.9875	PR TE CORNER
10+00.00	0.00' RT	756235.8034	2343493.6358	POT ℄ - MAIN BEGNI
12+03.11	0.00' RT	756302.4737	2343685.4883	POT ℄ - MAIN END

NOTE:
RIGHT OF WAY FOR S.B.I. ROUTE 157 LOCATED IN THE FORMER RAILROAD RIGHT OF WAY WAS ESTABLISHED PURSUANT TO THE AUTHORITY PROVIDED IN FORMER CHAPTER 121, SECTION 297 OF THE ILLINOIS REVISED STATUTES.







* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.			
8003022	KENNETH G. & MICHELLE A. NOLL, HUSBAND AND WIFE AS JOINT TENANTS 18-2009MA-4273.0	5.0010 [1]	TE = 0.0087	TE = 378	CONSTRUCTION & GRADING	13-1-21-05-00-000-004.001	
8003023	KENNETH G. NOLL 18-2009MA-4254.0	0.7965 [1]	TE = 0.0200	TE = 872	GRADING & ENTRANCE CONST.	13-1-21-04-05-101-019	

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET		REMAINDER	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.			
8003021	FIRST COLLINSVILLE BANK 18-2009MA-4257.0, 4253.0, 4255.0	1.4937 [1]	0.2340	10,193	N/A	N/A	0.2340	10,193	1.2597	TE = 0.0046	TE = 200	GRADING & ENTRANCE CONSTRUCTION	13-2-21-04-05-101-017 13-2-21-04-05-101-016 13-2-21-04-05-101-018	

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/12/24

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR — NATHAN T. DOZIER 035-003723 SPRINGFIELD, ILLINOIS — STATE OF ILLINOIS

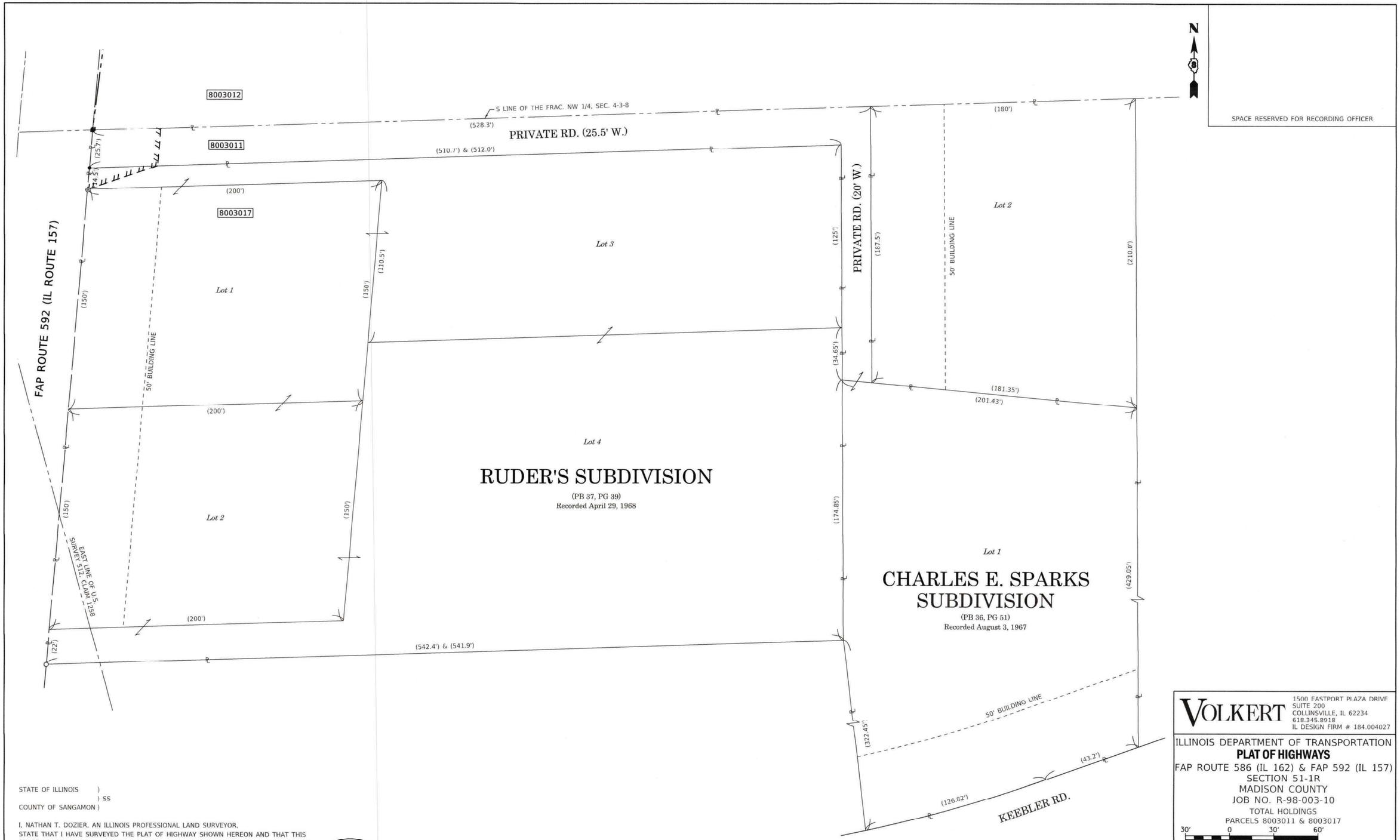
COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 589+00 TO STATION 593+00 (IL 157)
30' 0 30' 60'
SCALE: 1" = 30'
SHEET 9 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	104	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 11/12/24

NATHAN T. DOZIER - ILS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

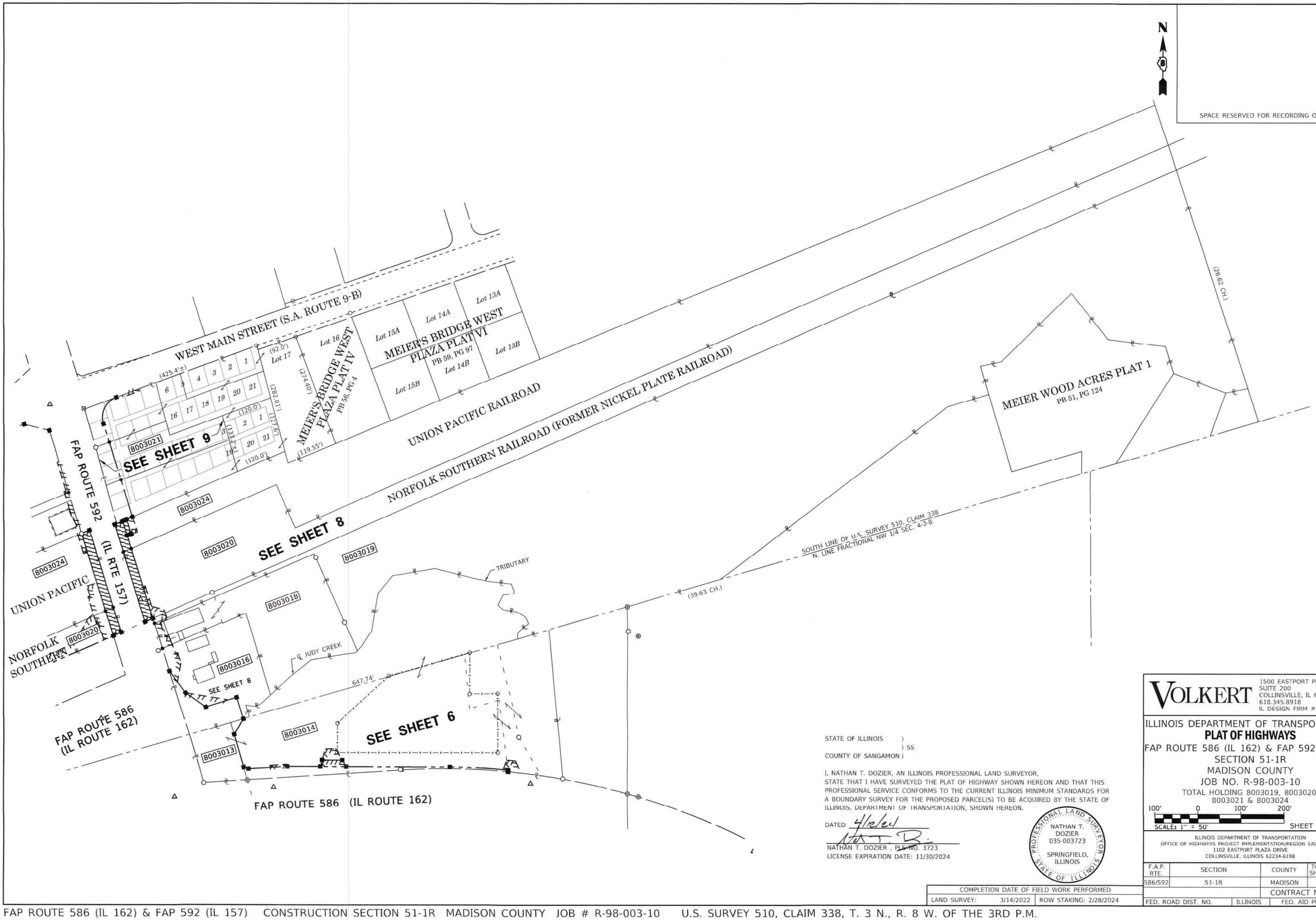
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
TOTAL HOLDINGS
PARCELS 8003011 & 8003017

30' 0 30' 60'
SCALE: 1" = 30'

SHEET 10 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	105	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/26/24

NATHAN T. DOZIER , PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.001027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
TOTAL HOLDING 8003019, 8003020, 8003021 & 8003024

100' 0 100' 200'
SCALE: 1" = 50'

SHEET 11 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	106	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SPACE RESERVED FOR RECORDING OFFICER

N

ONE FIVE SEVEN
BUSINESS PARK
(Doc# 2017R34504)
Recorded October 12, 2017

ONE FIVE SEVEN
BUSINESS PARK
(Doc# 2017R34504)
Recorded October 12, 2017

WEST MAIN STREET
(683.06')
(R=1,040.00')
(L=70.43')
(366.67')
(519.41')
NORTHERLY LINE ILLINOIS CENTRAL RAILROAD
(1519.49')
W. LINE US SURVEY 510, CLAIM 338
(285.47')
SW COR. US SURVEY 510, CLAIM 338

WEST MAIN STREET
(S.A. ROUTE 9-B)

SEE SHEET 9

8003021

8003022

(59.55')
(175.78')
FAP ROUTE 592 (IL RTE 157)
(20')
(80')
(348.90')
(175')
(145.3')
NORTH LINE, TRACT DESCRIBED IN BK 4191, PG 1564

8003023

(62')
(82.5')
(257.5')
(18')
(100.00')
(121.10')

8003024

UNION PACIFIC RAILROAD

8003074

UNION PACIFIC RAILROAD

8003020

NORFOLK SOUTHERN RAILROAD
(FORMER NICKEL PLATE RAILROAD)

8003020

NORFOLK SOUTHERN RAILROAD
(FORMER NICKEL PLATE RAILROAD)

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/14/24

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 3/14/2022	ROW STAKING: 2/28/2024

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
TOTAL HOLDING 8003020, 8003022, 8003023 & 8003024

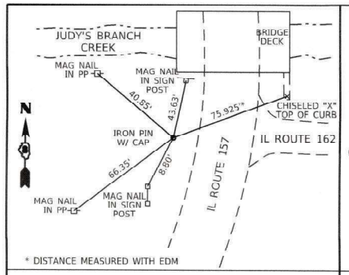
50' 0 50' 100'
SCALE: 1" = 50'

SHEET 12 OF 13

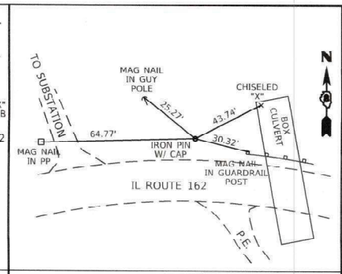
ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	107	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

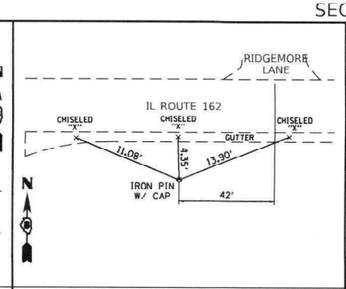
SECTION CORNER AND CENTERLINE TIE SHEET



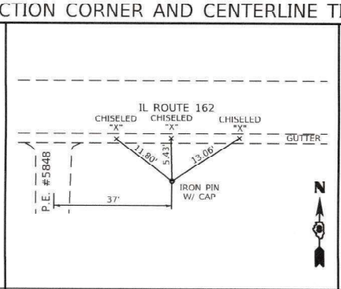
CONTROL POINT NUMBER 10
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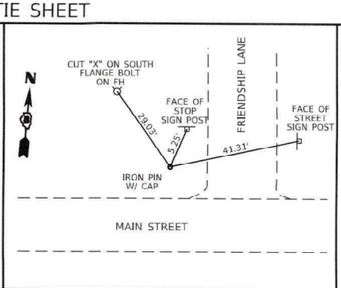
CONTROL POINT NUMBER 11
N = 755,342.9730, E = 2,344,582.6070



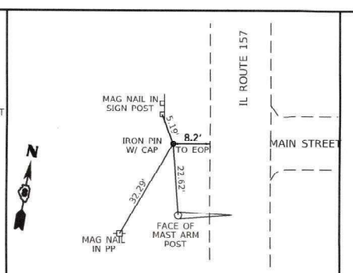
CONTROL POINT NUMBER 14
N = 754,778.9450, E = 2,345,941.0230



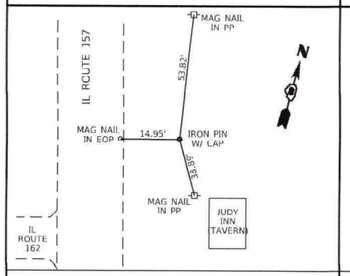
CONTROL POINT NUMBER 15
DESTROYED



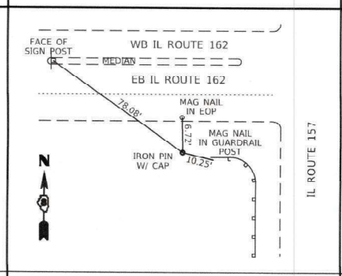
CONTROL POINT NUMBER 101
N = 756,596.2030, E = 2,344,409.6360



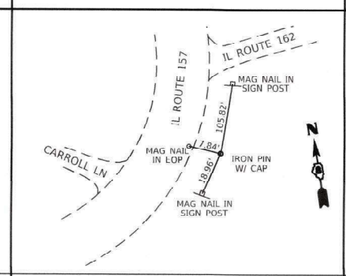
CONTROL POINT NUMBER 102
N = 756,221.4930, E = 2,343,466.2320



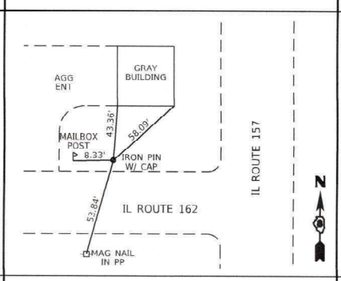
CONTROL POINT NUMBER 103R
N = 755,768.8300, E = 2,343,676.8710



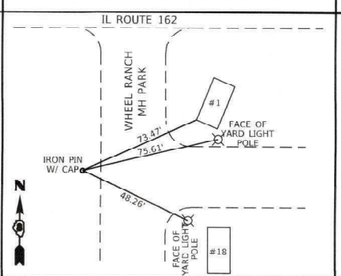
CONTROL POINT NUMBER 104
N = 755,492.8010, E = 2,343,585.5330



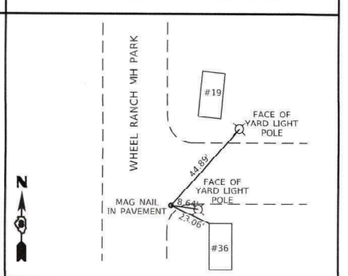
CONTROL POINT NUMBER 105
N = 755,122.0780, E = 2,343,829.0130



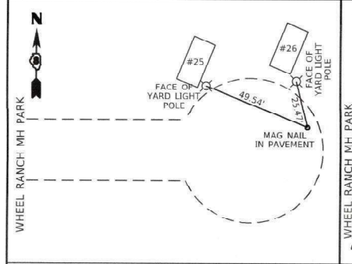
CONTROL POINT NUMBER 106
N = 755,350.5390, E = 2,343,137.7040



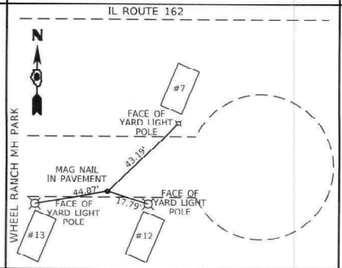
CONTROL POINT NUMBER 107
N = 755,138.0120, E = 2,344,048.7670



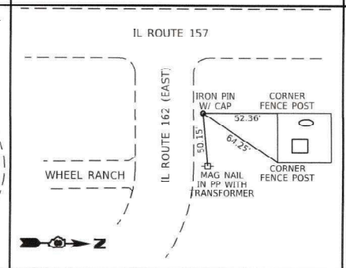
CONTROL POINT NUMBER 108
N = 754,905.3480, E = 2,344,101.8810



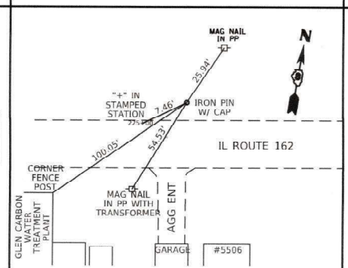
CONTROL POINT NUMBER 109
N = 754,951.9310, E = 2,344,488.4680



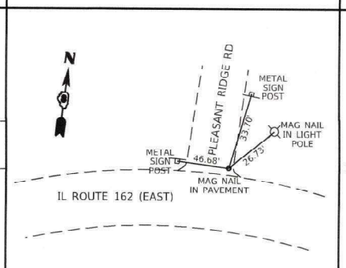
CONTROL POINT NUMBER 110
N = 755,158.5530, E = 2,344,411.8960



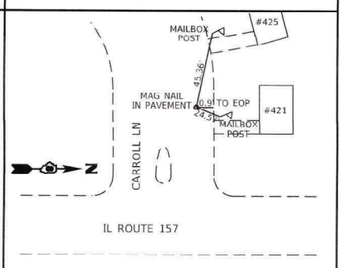
CONTROL POINT NUMBER 111
N = 755,334.2990, E = 2,343,986.1910



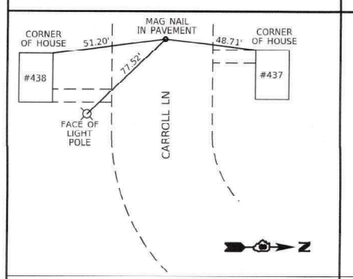
CONTROL POINT NUMBER 112
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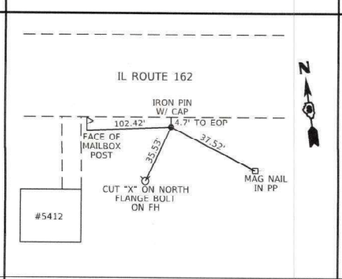
CONTROL POINT NUMBER 113
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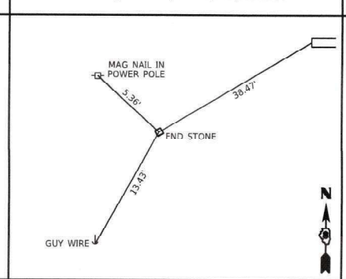
CONTROL POINT NUMBER 114
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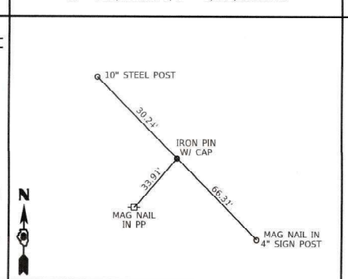
CONTROL POINT NUMBER 115
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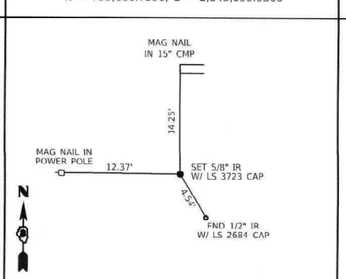
CONTROL POINT NUMBER 116
N = 754,856.4530, E = 2,341,760.6110



SW COR. US SURVEY 510, CLAIM 338
N = 754,735.0700, E = 2,341,411.4800
2/29/2024 MON. RECORD DOC# 2024R05358



SW COR. FRAC. NW 1/4, SEC. 4-3-8
N = 754,247.0470, E = 2,343,700.2593
10/17/14 MON. RECORD 2014R33226



NW COR. US SURVEY 512, CLAIM 1258
N = 754,773.7799, E = 2,341,538.3860
2/29/2024 MON. RECORD DOC# 2024R05359

SPACE RESERVED FOR RECORDING OFFICER

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY OF THE EXISTING RIGHT OF WAY, SHOWN HEREON.

DATED 4/12/24

NATHAN T. DOZIER , PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR
NATHAN T. DOZIER
035-003723
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

NOTE:
ALL TIES MEASURED DIRECT UNLESS OTHERWISE NOTED

VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

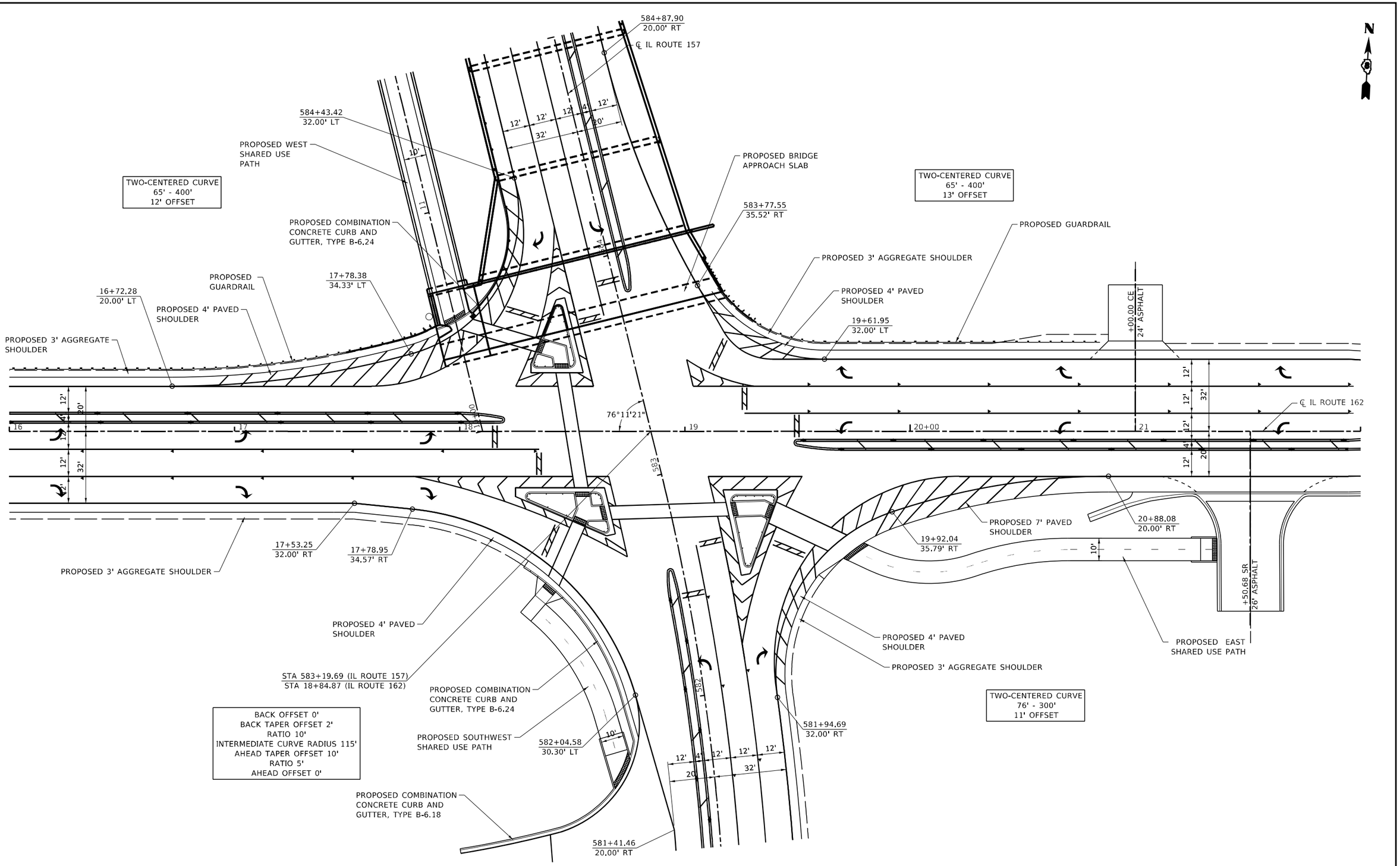
COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: | ROW STAKING:

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 00+00 TO STATION 00+00

NOT TO SCALE SHEET 13 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	108	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME: \\loch.loc\root\Production\Files\2020\420-0018\CAD\CADD Sheets\D876A46-sht-Intersection Details.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alexhuelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= INT DET 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

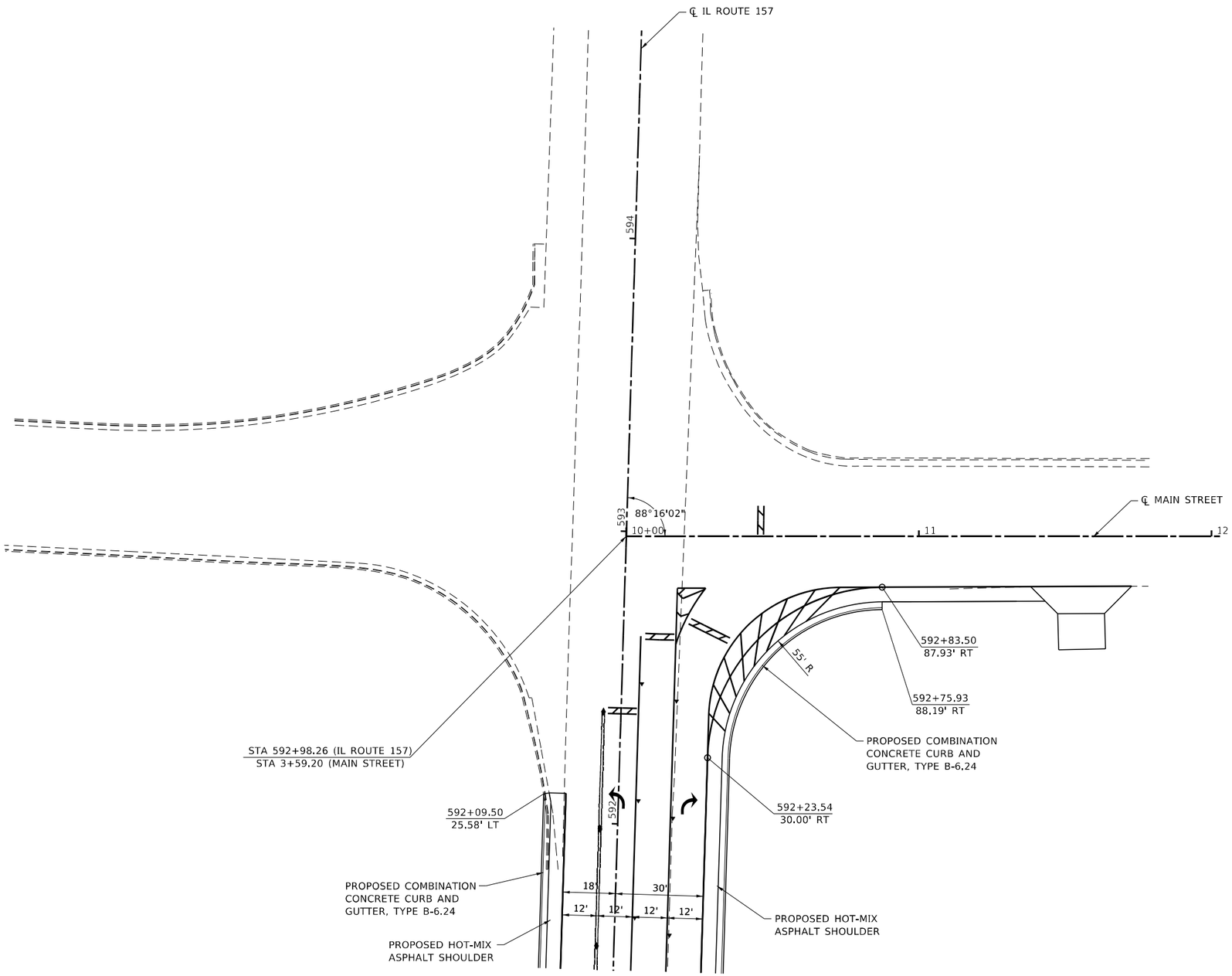
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | INT DET 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	109
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



0 20 40 60
SCALE IN FEET

FILE NAME: \\loch.loc\root\Production\Files\2020\x20-0018\CAD\C400 Sheets\D876A46-sht-Intersection Details.dgn

LOCHMUELLER GROUP
1928 S.N. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= INT DET 02	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

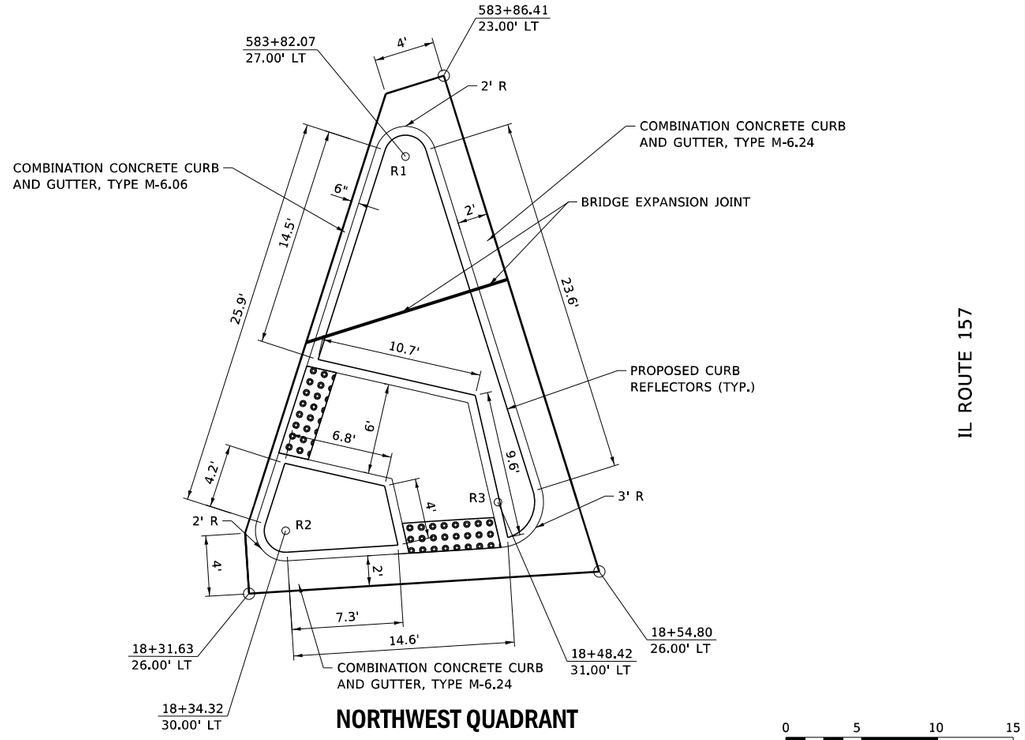
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
MAIN STREET

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | INT DET 157/MAIN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	110
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

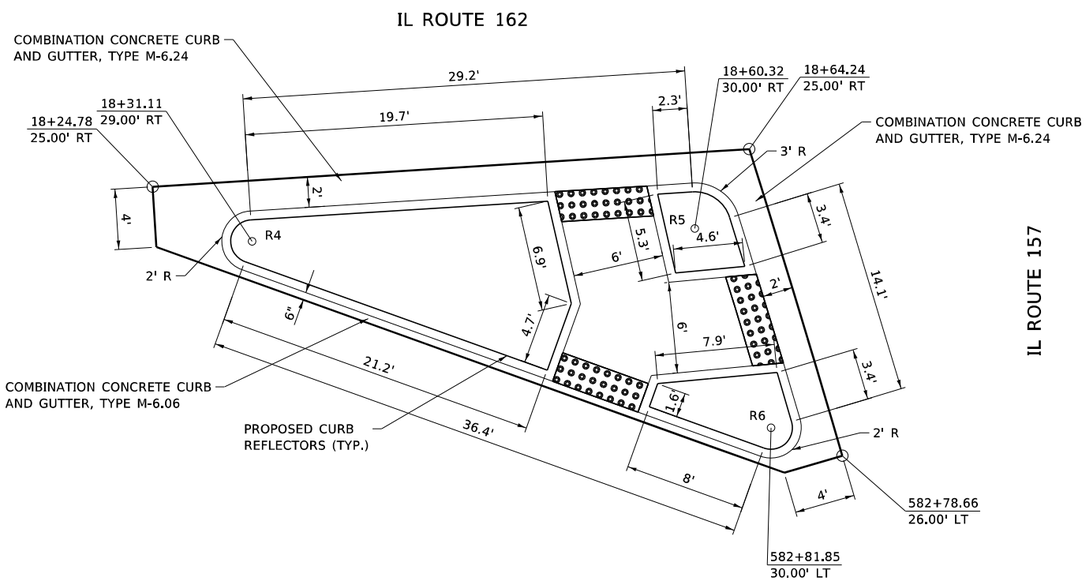
*586/592



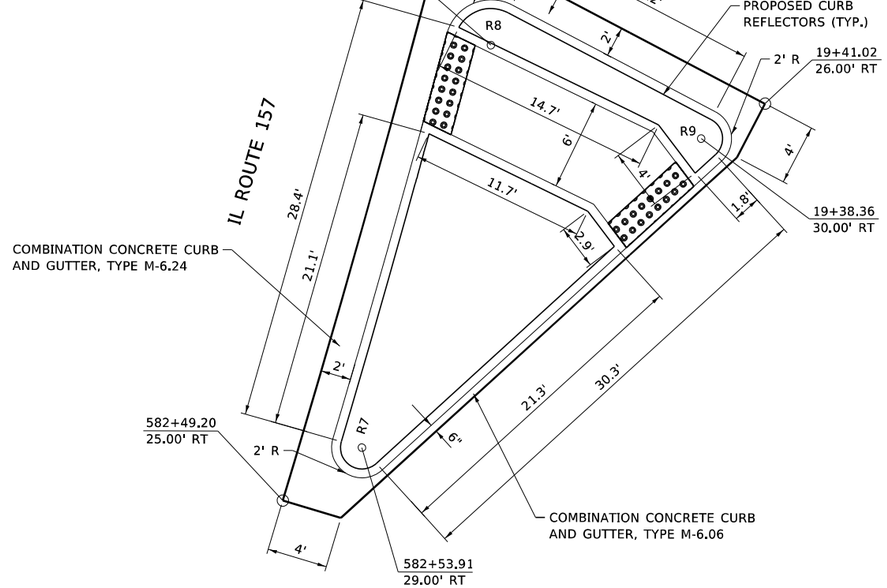
NORTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162

GROUND COORDINATES FOR ISLAND RADII

DESCRIPTION	COORDINATE	
	NORTH	EAST
CC R 1	755353.60	2343742.31
CC R 2	755328.91	2343734.41
CC R 3	755330.80	2343748.42
CC R 4	755269.83	2343734.94
CC R 5	755270.67	2343764.15
CC R 6	755257.53	2343769.18
CC R 7	755246.54	2343833.52
CC R 8	755273.65	2343826.98
CC R 9	755275.60	2343842.03



SOUTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162



SOUTHEAST QUADRANT
IL ROUTE 157 AND IL ROUTE 162

FILE NAME: \\loch.loc\root\Production\Files\2020\420-0018\CADD\CADD Sheets\D876A46-sht-Island Details.dgn

LOCHMUELLER GROUP
1928 S/A Bradley B. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= ISLAND DETAILS	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

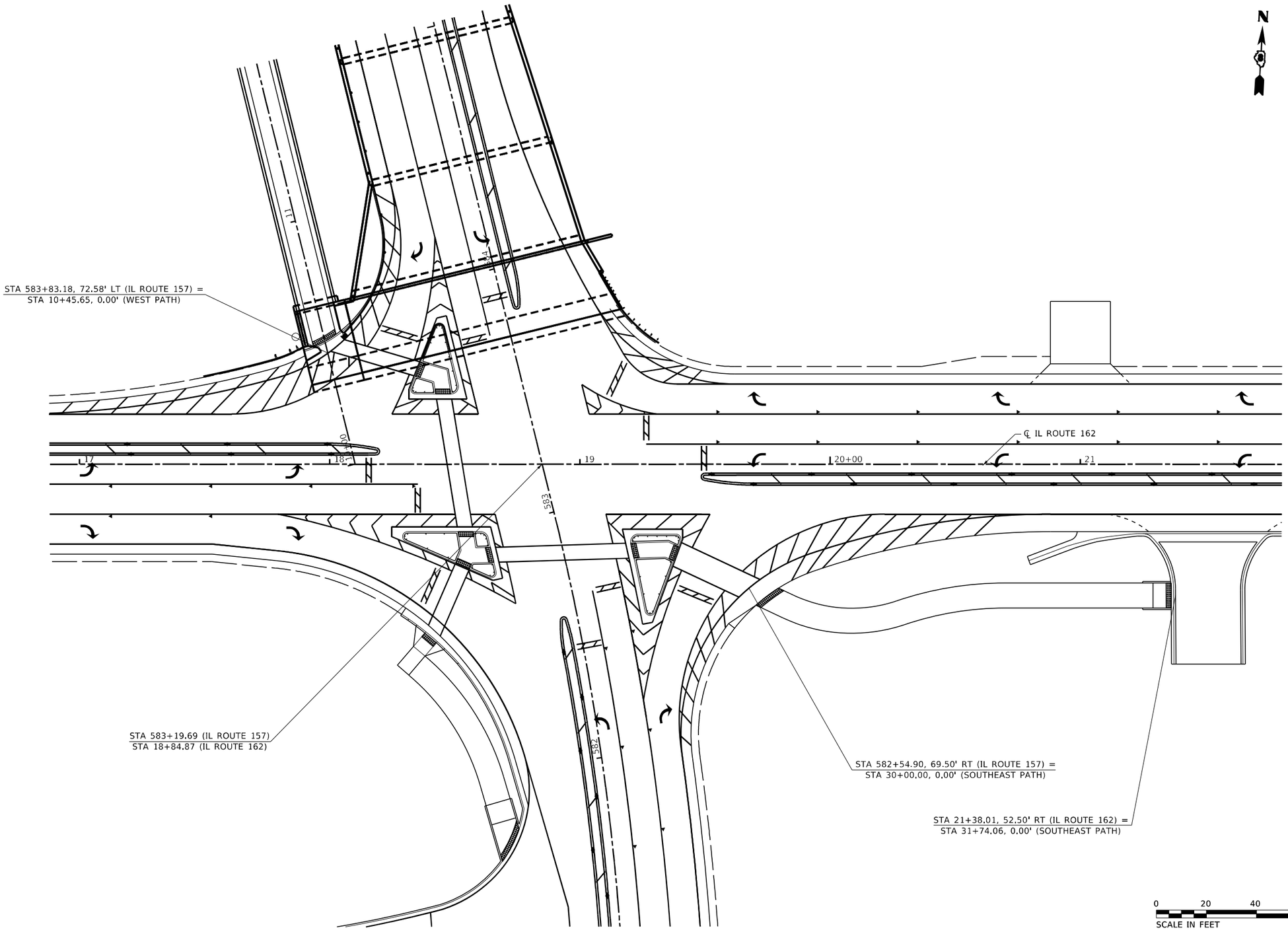
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ISLAND DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: | SHEET 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	111
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



FILE NAME: \\lochlocvroot\Production\Files\2020\420-0018\CAD\CADD Sheets\10876A46-sht-Curb Ramp Details.dgn

LOCHMUELLER GROUP
1928 Frank Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alexhuelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= RAMP DET 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

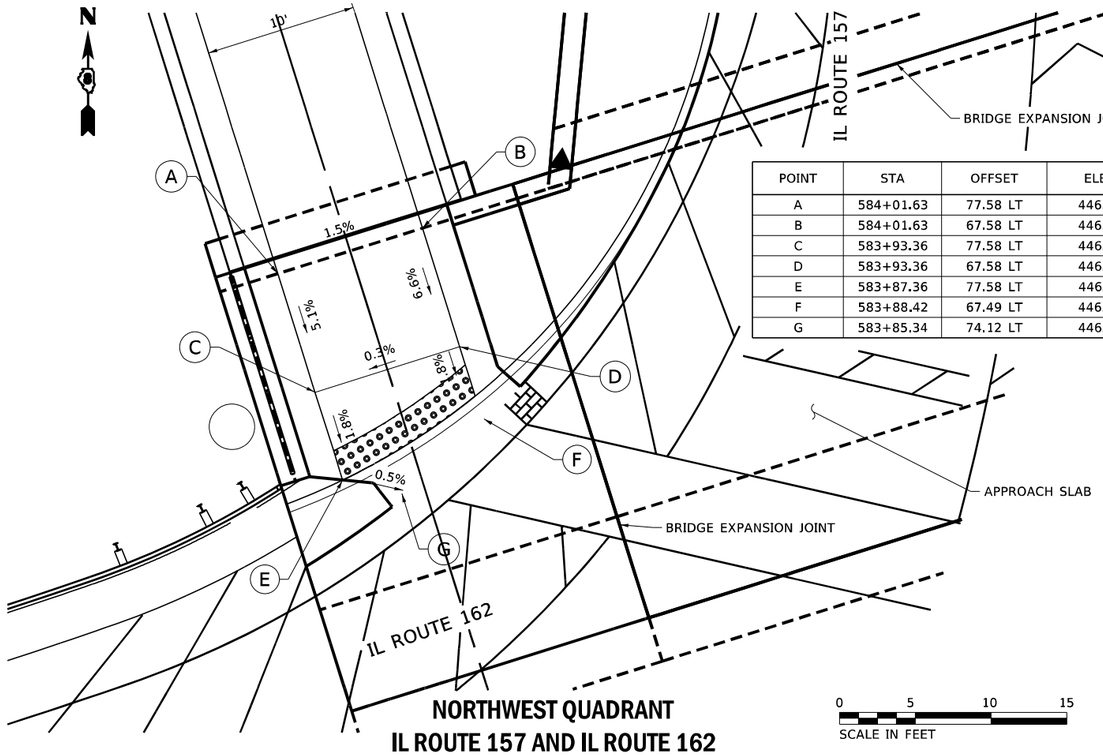
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 1 OF 4 SHEETS | RAMP PLAN

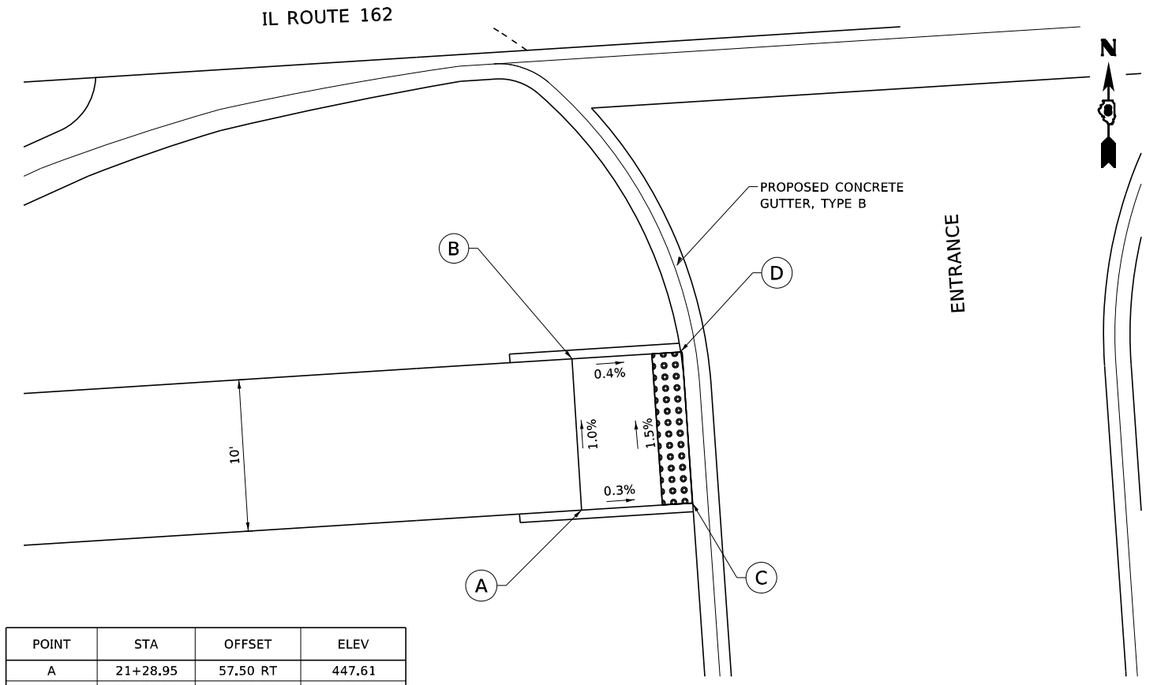
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	112
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



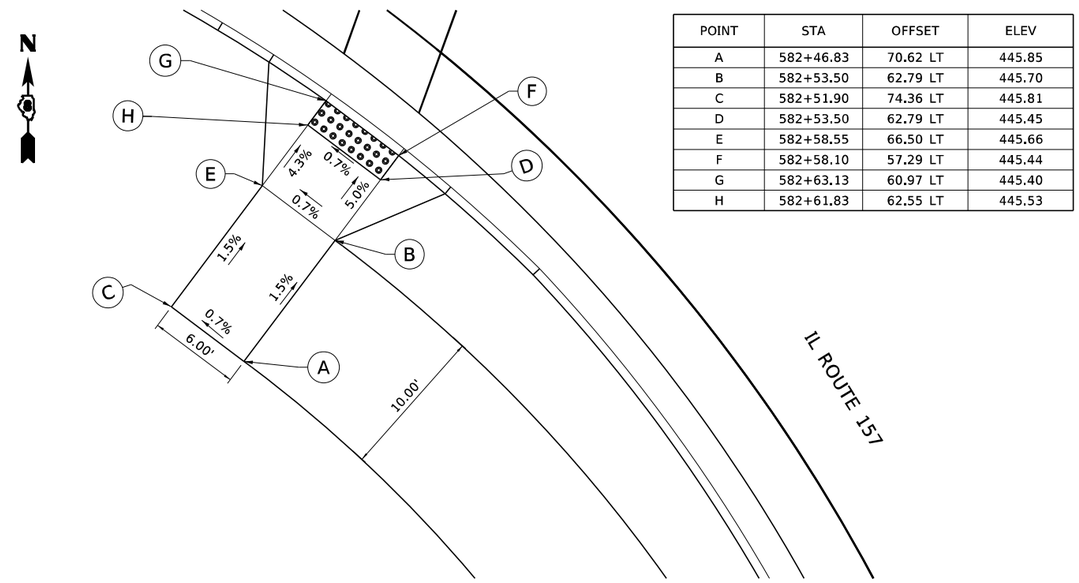
POINT	STA	OFFSET	ELEV
A	584+01.63	77.58 LT	446.84
B	584+01.63	67.58 LT	446.99
C	583+93.36	77.58 LT	446.43
D	583+93.36	67.58 LT	446.45
E	583+87.36	77.58 LT	446.31
F	583+88.42	67.49 LT	446.36
G	583+85.34	74.12 LT	446.27

NORTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162



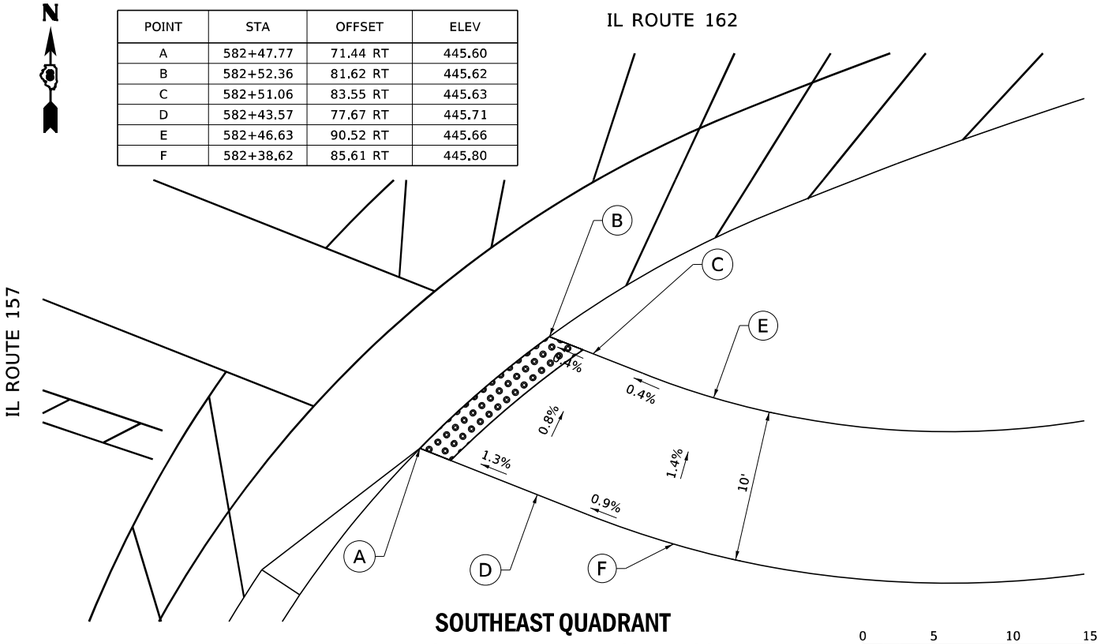
POINT	STA	OFFSET	ELEV
A	21+28.95	57.50 RT	447.61
B	21+28.98	47.50 RT	447.51
C	21+36.29	57.50 RT	447.63
D	21+36.13	47.50 RT	447.48

SOUTHEAST MULTI-USE PATH
IL ROUTE 162



POINT	STA	OFFSET	ELEV
A	582+46.83	70.62 LT	445.85
B	582+53.50	62.79 LT	445.70
C	582+51.90	74.36 LT	445.81
D	582+53.50	62.79 LT	445.45
E	582+58.55	66.50 LT	445.66
F	582+58.10	57.29 LT	445.44
G	582+63.13	60.97 LT	445.40
H	582+61.83	62.55 LT	445.53

SOUTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162



POINT	STA	OFFSET	ELEV
A	582+47.77	71.44 RT	445.60
B	582+52.36	81.62 RT	445.62
C	582+51.06	83.55 RT	445.63
D	582+43.57	77.67 RT	445.71
E	582+46.63	90.52 RT	445.66
F	582+38.62	85.61 RT	445.80

SOUTHEAST QUADRANT
IL ROUTE 157 AND IL ROUTE 162

FILE NAME: \\lochlue\root\Production\Files\2020\420-0018\CAD\CADD Sheets\DB76A46-sht-Curb Ramp Details.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	alex.huelskamp	DESIGNED – ESW	REVISED –	
MODEL NAME	RAMP DET 02	DRAWN – LEC	REVISED –	
PLOT SCALE	40.0000 ' / in.	CHECKED – BRM	REVISED –	
PLOT DATE	3/5/2024	DATE – 10/8/2021	REVISED –	

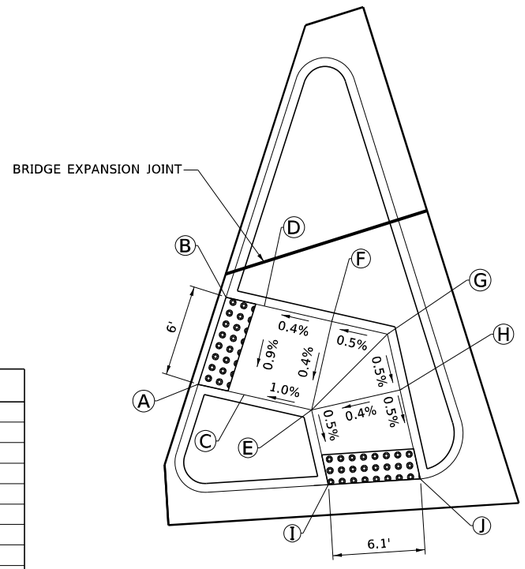
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 2 OF 4 SHEETS | RAMP DETAILS 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	113
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

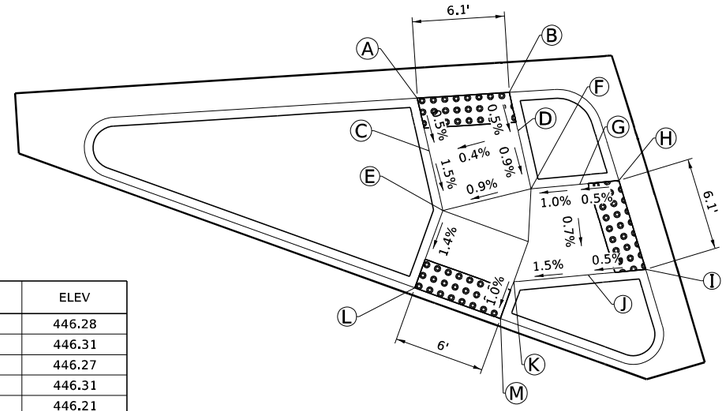
*586/592



POINT	STA	OFFSET	ELEV
A	583+65.92	40.33 LT	446.55
B	583+70.85	36.36 LT	446.61
C	583+64.36	38.15 LT	446.56
D	583+69.54	35.13 LT	446.62
E	583+62.06	34.21 LT	446.61
F	583+67.25	31.19 LT	446.63
G	583+65.34	27.93 LT	446.65
H	583+61.58	28.23 LT	446.63
I	583+57.00	34.62 LT	446.58
J	583+55.58	27.72 LT	446.60

NORTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162

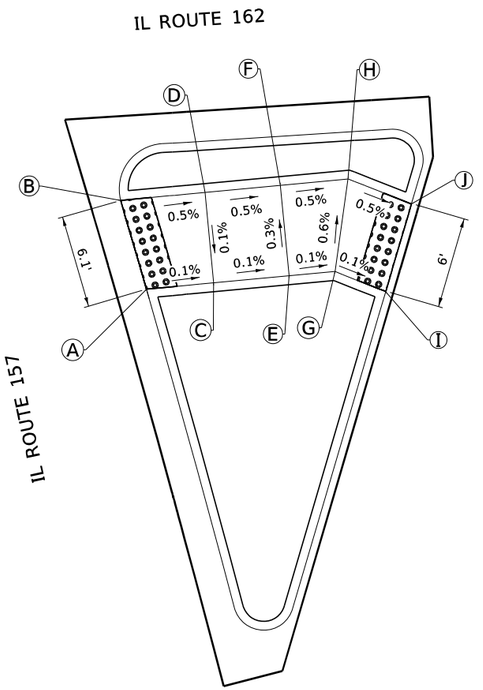
0 5 10 15
SCALE IN FEET



POINT	STA	OFFSET	ELEV
A	583+01.49	39.09 LT	446.28
B	583+00.04	33.18 LT	446.31
C	582+97.89	39.37 LT	446.27
D	582+97.40	33.39 LT	446.31
E	582+93.70	39.68 LT	446.21
F	582+93.34	33.69 LT	446.26
G	582+92.66	30.54 LT	446.29
H	582+92.12	28.00 LT	446.30
I	582+85.82	28.00 LT	446.27
J	582+86.60	31.74 LT	446.25
K	582+87.60	36.58 LT	446.17
L	582+89.17	42.94 LT	446.13
M	582+85.45	38.11 LT	446.14

SOUTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162

0 5 10 15
SCALE IN FEET



POINT	STA	OFFSET	ELEV
A	582+75.14	27.00 RT	446.23
B	582+81.08	27.00 RT	446.27
C	582+74.34	31.37 RT	446.23
D	582+80.05	32.49 RT	446.24
E	582+73.45	36.28 RT	446.23
F	582+79.13	37.40 RT	446.21
G	582+72.91	39.29 RT	446.23
H	582+78.32	41.81 RT	446.19
I	582+70.81	42.14 RT	446.23
J	582+75.69	45.36 RT	446.17

SOUTHEAST QUADRANT
IL ROUTE 157 AND IL ROUTE 162

0 5 10 15
SCALE IN FEET

FILE NAME: X:\Production\Files\2020\420-0018\CAD\CADD Sheets\0876A46-sht-Curb Ramp Details.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= linda	DESIGNED	- ESW	REVISED	-
MODEL NAME	= RAMP DET 03	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/7/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157 AND IL ROUTE 162

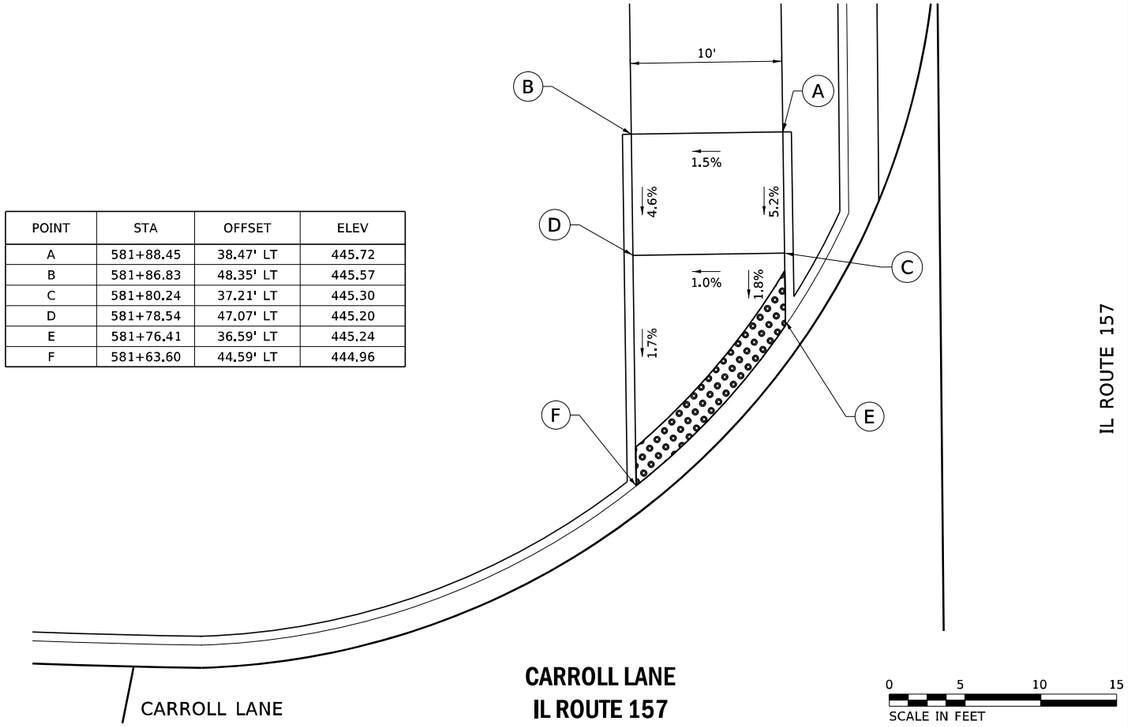
SCALE: 1"=5' | SHEET 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	114
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

N

POINT	STA	OFFSET	ELEV
A	581+88.45	38.47' LT	445.72
B	581+86.83	48.35' LT	445.57
C	581+80.24	37.21' LT	445.30
D	581+78.54	47.07' LT	445.20
E	581+76.41	36.59' LT	445.24
F	581+63.60	44.59' LT	444.96



CARROLL LANE
IL ROUTE 157

0 5 10 15
SCALE IN FEET

FILE NAME: \\loch.loc\root\Production\Files\2020\v20-0018\CADD\CADD Sheets\D876A46-sht-Curb Ramp Details.dgn

LOCHMUELLER GROUP
1928 Sra Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= RAMP DET 04	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157

SCALE: 1"=20' | SHEET 4 OF 4 SHEETS | RAMP DETAILS 4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	115
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

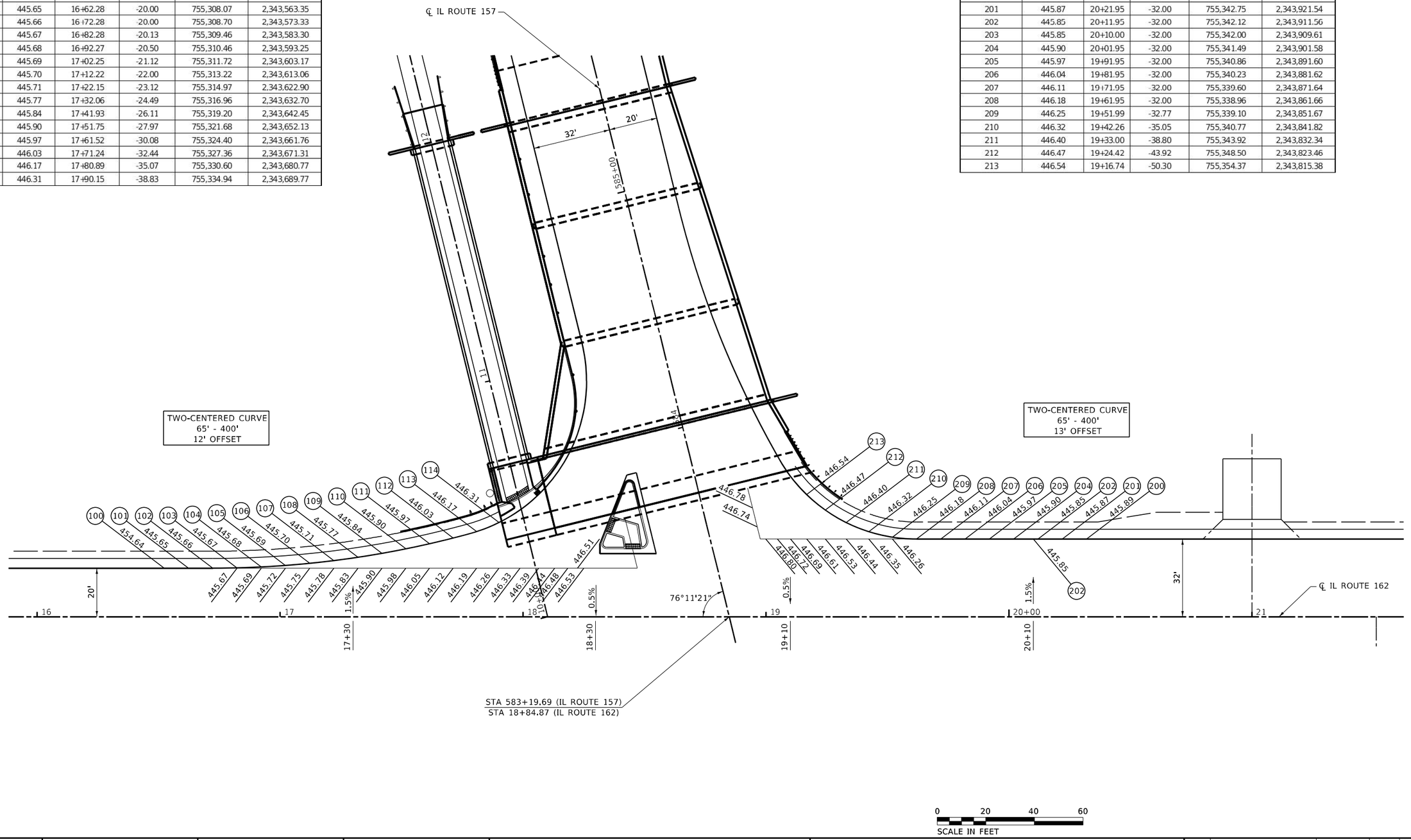
*586/592

NORTHWEST QUARDRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
℄ ROUTE 162					
100	454.64	16+52.28	-20.00	755,307.44	2,343,553.37
101	445.65	16+62.28	-20.00	755,308.07	2,343,563.35
102	445.66	16+72.28	-20.00	755,308.70	2,343,573.33
103	445.67	16+82.28	-20.13	755,309.46	2,343,583.30
104	445.68	16+92.27	-20.50	755,310.46	2,343,593.25
105	445.69	17+02.25	-21.12	755,311.72	2,343,603.17
106	445.70	17+12.22	-22.00	755,313.22	2,343,613.06
107	445.71	17+22.15	-23.12	755,314.97	2,343,622.90
108	445.77	17+32.06	-24.49	755,316.96	2,343,632.70
109	445.84	17+41.93	-26.11	755,319.20	2,343,642.45
110	445.90	17+51.75	-27.97	755,321.68	2,343,652.13
111	445.97	17+61.52	-30.08	755,324.40	2,343,661.76
112	446.03	17+71.24	-32.44	755,327.36	2,343,671.31
113	446.17	17+80.89	-35.07	755,330.60	2,343,680.77
114	446.31	17+90.15	-38.83	755,334.94	2,343,689.77

NORTHEAST QUARDRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
℄ ROUTE 162					
200	445.89	20+31.95	-32.00	755,343.38	2,343,931.52
201	445.87	20+21.95	-32.00	755,342.75	2,343,921.54
202	445.85	20+11.95	-32.00	755,342.12	2,343,911.56
203	445.85	20+10.00	-32.00	755,342.00	2,343,909.61
204	445.90	20+01.95	-32.00	755,341.49	2,343,901.58
205	445.97	19+91.95	-32.00	755,340.86	2,343,891.60
206	446.04	19+81.95	-32.00	755,340.23	2,343,881.62
207	446.11	19+71.95	-32.00	755,339.60	2,343,871.64
208	446.18	19+61.95	-32.00	755,338.96	2,343,861.66
209	446.25	19+51.99	-32.77	755,339.10	2,343,851.67
210	446.32	19+42.26	-35.05	755,340.77	2,343,841.82
211	446.40	19+33.00	-38.80	755,343.92	2,343,832.34
212	446.47	19+24.42	-43.92	755,348.50	2,343,823.46
213	446.54	19+16.74	-50.30	755,354.37	2,343,815.38



FILE NAME: \\loch.loc\root\Production\Files\2020\420-0018\CAD\CADD Sheets\D876A46-sht-Pavt Warp Elevs.dgn

LOCHMUELLER GROUP
1928 S-A Bradley Pl. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alexhuelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= WARP 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

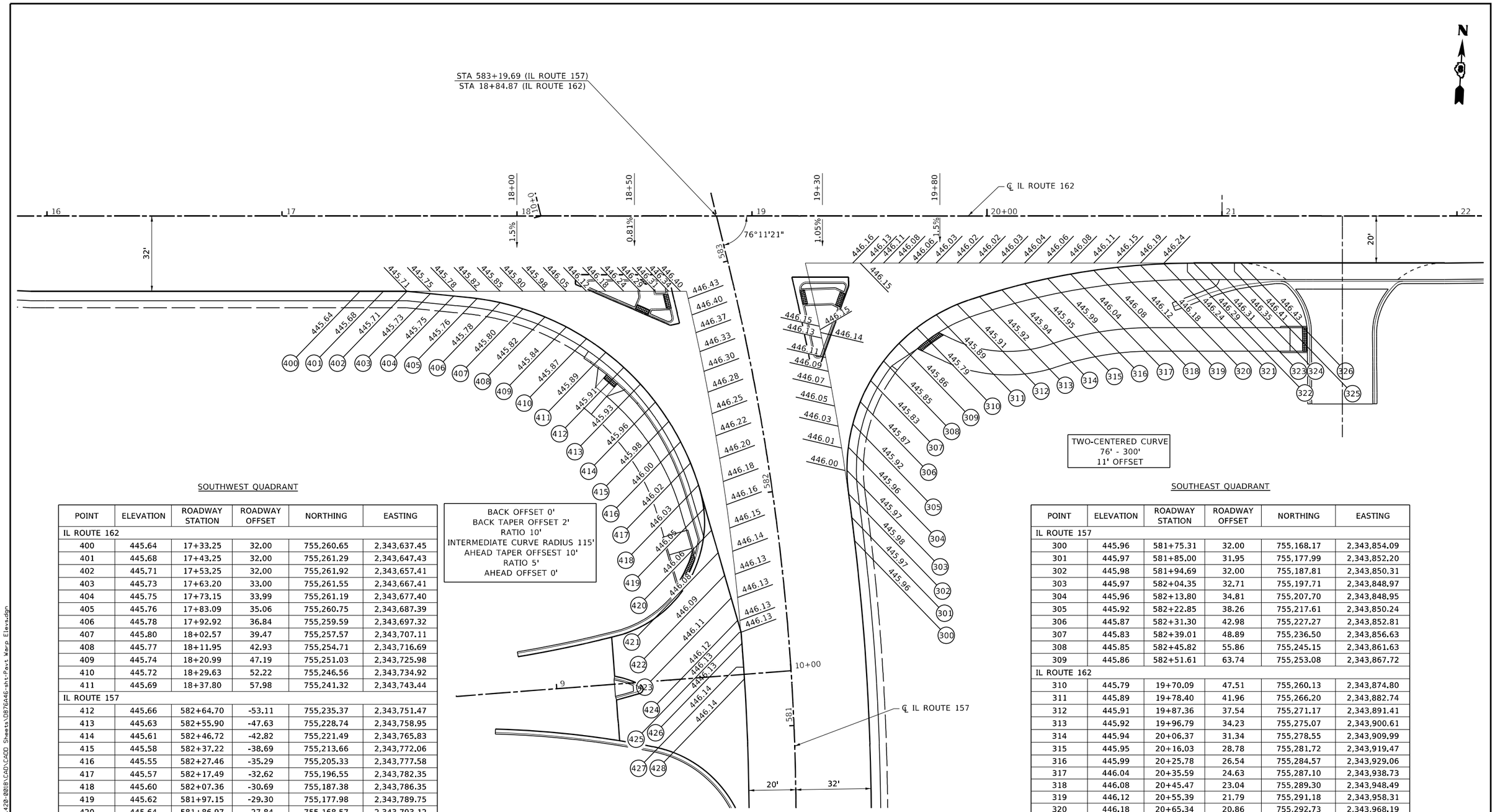
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 1 OF 5 SHEETS | WARP 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	116
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 162					
400	445.64	17+33.25	32.00	755,260.65	2,343,637.45
401	445.68	17+43.25	32.00	755,261.29	2,343,647.43
402	445.71	17+53.25	32.00	755,261.92	2,343,657.41
403	445.73	17+63.20	33.00	755,261.55	2,343,667.41
404	445.75	17+73.15	33.99	755,261.19	2,343,677.40
405	445.76	17+83.09	35.06	755,260.75	2,343,687.39
406	445.78	17+92.92	36.84	755,259.59	2,343,697.32
407	445.80	18+02.57	39.47	755,257.57	2,343,707.11
408	445.77	18+11.95	42.93	755,254.71	2,343,716.69
409	445.74	18+20.99	47.19	755,251.03	2,343,725.98
410	445.72	18+29.63	52.22	755,246.56	2,343,734.92
411	445.69	18+37.80	57.98	755,241.32	2,343,743.44
IL ROUTE 157					
412	445.66	582+64.70	-53.11	755,235.37	2,343,751.47
413	445.63	582+55.90	-47.63	755,228.74	2,343,758.95
414	445.61	582+46.72	-42.82	755,221.49	2,343,765.83
415	445.58	582+37.22	-38.69	755,213.66	2,343,772.06
416	445.55	582+27.46	-35.29	755,205.33	2,343,777.58
417	445.57	582+17.49	-32.62	755,196.55	2,343,782.35
418	445.60	582+07.36	-30.69	755,187.38	2,343,786.35
419	445.62	581+97.15	-29.30	755,177.98	2,343,789.75
420	445.64	581+86.97	-27.84	755,168.57	2,343,793.12
421	445.75	581+76.82	-26.28	755,159.15	2,343,796.50
422	445.86	581+66.70	-24.61	755,149.74	2,343,799.87
423	445.97	581+56.62	-22.85	755,140.32	2,343,803.24
424	446.07	581+46.57	-20.99	755,130.91	2,343,806.61
425	446.13	581+41.46	-20.00	755,126.11	2,343,808.33
426	446.13	581+36.46	-20.00	755,121.26	2,343,809.04
427	446.14	581+26.26	-20.00	755,111.35	2,343,810.40
428	446.14	581+21.05	-20.00	755,106.29	2,343,811.05

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 157					
300	445.96	581+75.31	32.00	755,168.17	2,343,854.09
301	445.97	581+85.00	31.95	755,177.99	2,343,852.20
302	445.98	581+94.69	32.00	755,187.81	2,343,850.31
303	445.97	582+04.35	32.71	755,197.71	2,343,848.97
304	445.96	582+13.80	34.81	755,207.70	2,343,848.95
305	445.92	582+22.85	38.26	755,217.61	2,343,850.24
306	445.87	582+31.30	42.98	755,227.27	2,343,852.81
307	445.83	582+39.01	48.89	755,236.50	2,343,856.63
308	445.85	582+45.82	55.86	755,245.15	2,343,861.63
309	445.86	582+51.61	63.74	755,253.08	2,343,867.72
IL ROUTE 162					
310	445.79	19+70.09	47.51	755,260.13	2,343,874.80
311	445.89	19+78.40	41.96	755,266.20	2,343,882.74
312	445.91	19+87.36	37.54	755,271.17	2,343,891.41
313	445.92	19+96.79	34.23	755,275.07	2,343,900.61
314	445.94	20+06.37	31.34	755,278.55	2,343,909.99
315	445.95	20+16.03	28.78	755,281.72	2,343,919.47
316	445.99	20+25.78	26.54	755,284.57	2,343,929.06
317	446.04	20+35.59	24.63	755,287.10	2,343,938.73
318	446.08	20+45.47	23.04	755,289.30	2,343,948.49
319	446.12	20+55.39	21.79	755,291.18	2,343,958.31
320	446.18	20+65.34	20.86	755,292.73	2,343,968.19
321	446.24	20+75.33	20.27	755,293.95	2,343,978.11
322	446.29	20+85.32	20.01	755,294.84	2,343,988.07
323	446.31	20+88.08	20.00	755,295.03	2,343,990.82
324	446.35	20+95.32	20.00	755,295.49	2,343,998.05
325	446.41	21+05.32	20.00	755,296.12	2,344,008.03
326	446.43	21+08.08	20.00	755,296.29	2,344,010.78

0 20 40 60
SCALE IN FEET

FILE NAME: \\loch.loc\roos\Production\Files\2020\420-0018\CAD\C4DD Sheets\D76A46-sht-Pavt Warp Elevs.dgn

LOCHMUELLER GROUP
1928 Stk Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= WARP 02	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

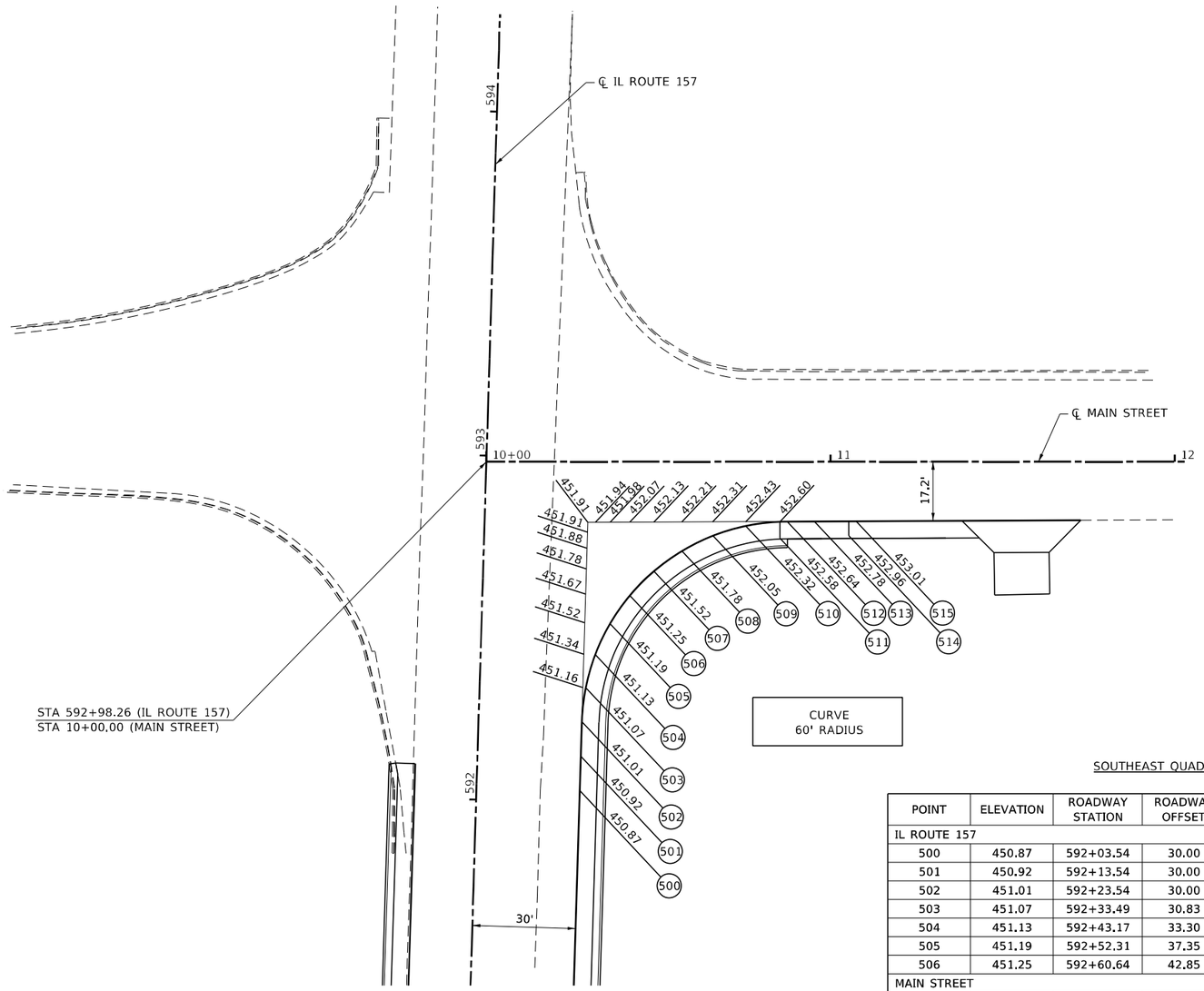
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 2 OF 5 SHEETS | WARP 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	117
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592



SOUTHEAST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 157					
500	450.87	592+03.54	30.00	756,154.42	2,343,550.63
501	450.92	592+13.54	30.00	756,163.96	2,343,547.64
502	451.01	592+23.54	30.00	756,173.50	2,343,544.64
503	451.07	592+33.49	30.83	756,183.25	2,343,542.45
504	451.13	592+43.17	33.30	756,193.22	2,343,541.91
505	451.19	592+52.31	37.35	756,203.15	2,343,543.03
506	451.25	592+60.64	42.85	756,212.75	2,343,545.78
MAIN STREET					
507	451.52	10+48.72	31.80	756,221.76	2,343,550.09
508	451.78	10+56.82	25.96	756,229.93	2,343,555.83
509	452.05	10+65.78	21.55	756,237.04	2,343,562.85
510	452.32	10+75.35	18.69	756,242.88	2,343,570.95
511	452.58	10+85.27	17.46	756,247.30	2,343,579.91
512	452.64	10+87.44	17.41	756,248.06	2,343,581.94
513	452.78	10+95.27	17.37	756,250.66	2,343,589.33
514	452.96	11+05.27	17.33	756,253.99	2,343,598.76
515	453.01	11+07.44	17.32	756,254.71	2,343,600.81

0 20 40 60
SCALE IN FEET

FILE NAME: \\loch.loc\root\Production\Files\2020\420-8018\CADD Sheets\D876A46-sht-Pavt Warp Elevs.dgn

LOCHMUELLER GROUP
1928 S-A Bradley Pl. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	alexhuelskamp	DESIGNED	ESW	REVISED	–
MODEL NAME	WARP 03	DRAWN	LEC	REVISED	–
PLOT SCALE	40.0000 ' / in.	CHECKED	BRM	REVISED	–
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS
IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' | SHEET 3 OF 5 SHEETS | WARP 157/MAIN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	118
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

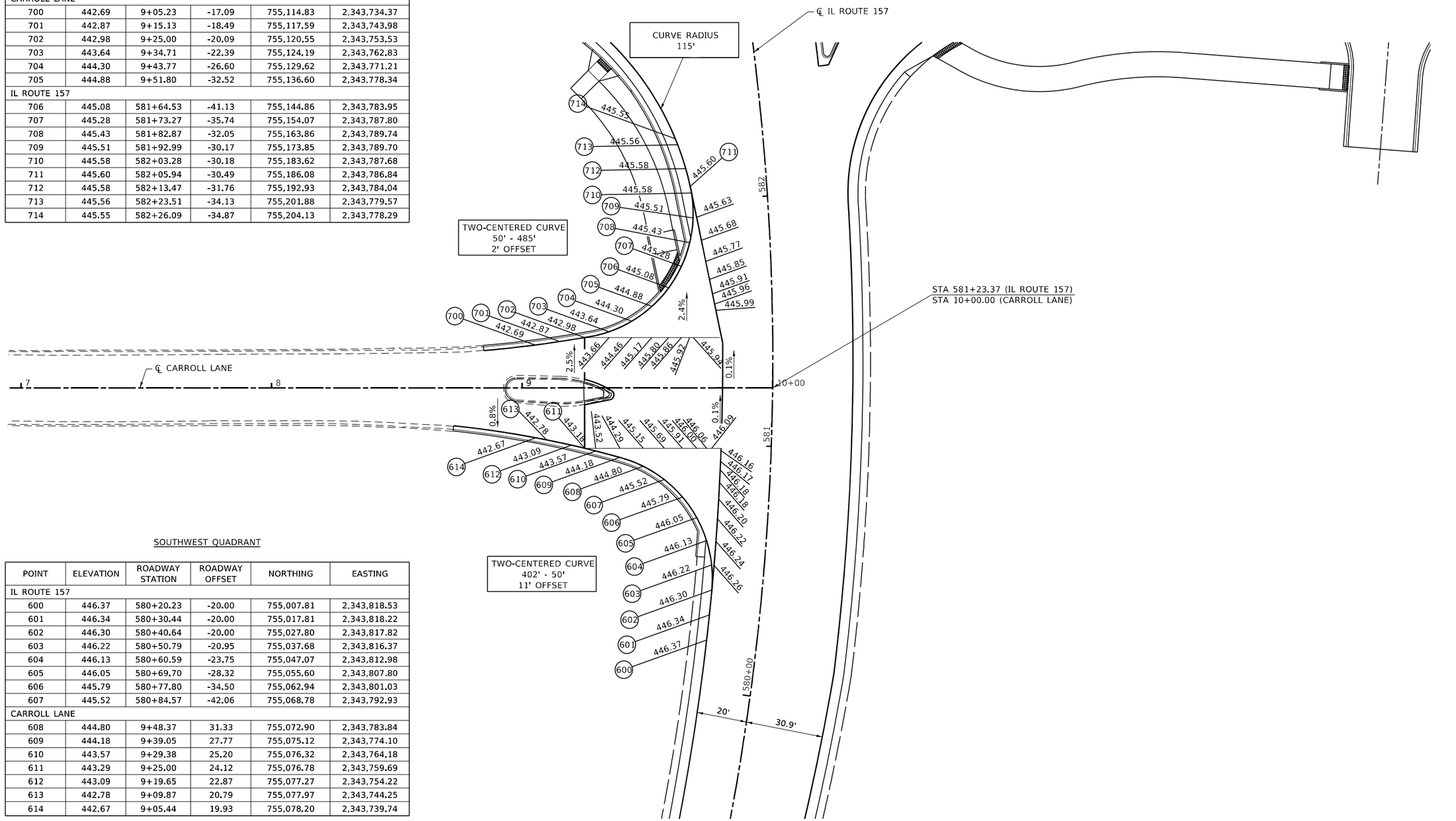
*586/592

NORTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
CARROLL LANE					
700	442.69	9+05.23	-17.09	755,114.83	2,343,734.37
701	442.87	9+15.13	-18.49	755,117.59	2,343,743.98
702	442.98	9+25.00	-20.09	755,120.55	2,343,753.53
703	443.64	9+34.71	-22.39	755,124.19	2,343,762.83
704	444.30	9+43.77	-26.60	755,129.62	2,343,771.21
705	444.88	9+51.80	-32.52	755,136.60	2,343,778.34
IL ROUTE 157					
706	445.08	581+64.53	-41.13	755,144.86	2,343,783.95
707	445.28	581+73.27	-35.74	755,154.07	2,343,787.80
708	445.43	581+82.87	-32.05	755,163.86	2,343,789.74
709	445.51	581+92.99	-30.17	755,173.85	2,343,789.70
710	445.58	582+03.28	-30.18	755,183.62	2,343,787.68
711	445.60	582+05.94	-30.49	755,186.08	2,343,786.84
712	445.58	582+13.47	-31.76	755,192.93	2,343,784.04
713	445.56	582+23.51	-34.13	755,201.88	2,343,779.57
714	445.55	582+26.09	-34.87	755,204.13	2,343,778.29

SOUTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 157					
600	446.37	580+20.23	-20.00	755,007.81	2,343,818.53
601	446.34	580+30.44	-20.00	755,017.81	2,343,818.22
602	446.30	580+40.64	-20.00	755,027.80	2,343,817.82
603	446.22	580+50.79	-20.95	755,037.68	2,343,816.37
604	446.13	580+60.59	-23.75	755,047.07	2,343,812.98
605	446.05	580+69.70	-28.32	755,055.60	2,343,807.80
606	445.79	580+77.80	-34.50	755,062.94	2,343,801.03
607	445.52	580+84.57	-42.06	755,068.78	2,343,792.93
CARROLL LANE					
608	444.80	9+48.37	31.33	755,072.90	2,343,783.84
609	444.18	9+39.05	27.77	755,075.12	2,343,774.10
610	443.57	9+29.38	25.20	755,076.32	2,343,764.18
611	443.29	9+25.00	24.12	755,076.78	2,343,759.69
612	443.09	9+19.65	22.87	755,077.27	2,343,754.22
613	442.78	9+09.87	20.79	755,077.97	2,343,744.25
614	442.67	9+05.44	19.93	755,078.20	2,343,739.74



0 20 40 60
SCALE IN FEET

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LOCHMUELLER GROUP
1928 Stk Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME = Joe.Kovarik		DESIGNED - ESW		REVISED -	
MODEL NAME = WARP 04		DRAWN - LEC		REVISED -	
PLOT SCALE = 40.0000 ' / in.		CHECKED - BRM		REVISED -	
PLOT DATE = 3/6/2024		DATE - 10/8/2021		REVISED -	

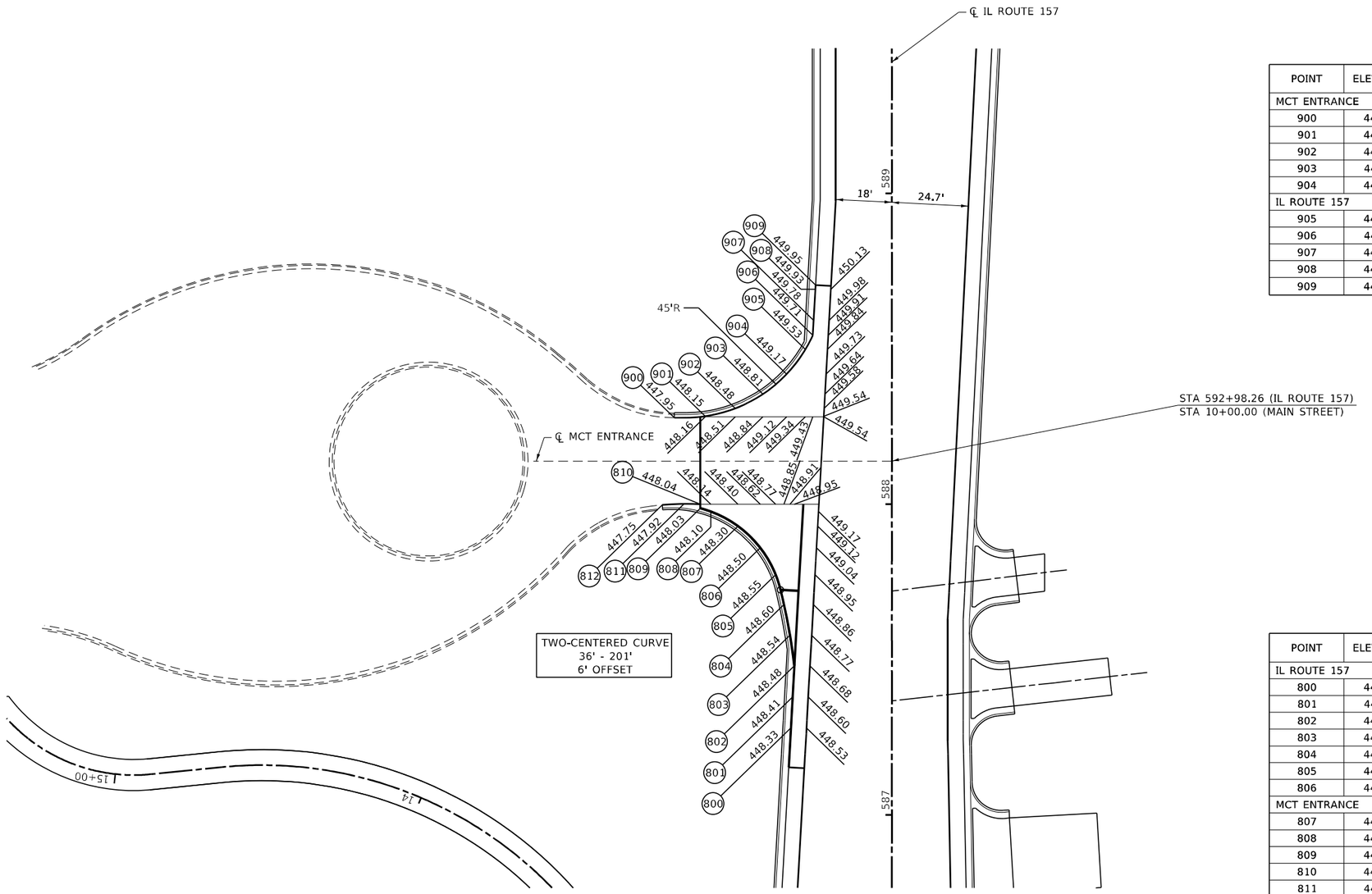
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS
IL ROUTE 157 AND CARROLL LANE

SCALE: 1"=20' | SHEET 4 OF 5 SHEETS | WARP CAROLL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	119
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



NORTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
MCT ENTRANCE					
900	447.95	29+30.04	-13.93	755,765.95	2,343,567.82
901	448.15	29+40.02	-14.42	755,769.41	2,343,577.19
902	448.48	29+49.68	-16.94	755,774.71	2,343,585.65
903	448.81	29+58.54	-21.53	755,781.74	2,343,592.73
904	449.17	29+66.17	-27.96	755,790.16	2,343,598.09
IL ROUTE 157					
905	449.53	588+49.74	-27.80	755,799.55	2,343,601.46
906	449.71	588+54.33	-25.41	755,804.64	2,343,602.37
907	449.78	588+59.15	-25.14	755,809.32	2,343,601.18
908	449.93	588+69.13	-24.59	755,819.01	2,343,598.72
909	449.95	588+70.46	-24.51	755,820.30	2,343,598.39

SOUTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 157					
800	448.33	587+27.96	-32.43	755,681.97	2,343,633.52
801	448.41	587+37.94	-31.87	755,691.67	2,343,631.06
802	448.48	587+47.93	-31.32	755,701.36	2,343,628.60
803	448.54	587+57.82	-32.74	755,710.37	2,343,624.28
804	448.60	587+67.64	-34.65	755,719.17	2,343,619.52
805	448.55	587+77.26	-37.33	755,727.54	2,343,614.08
806	448.50	587+85.91	-42.29	755,734.31	2,343,606.76
MCT ENTRANCE					
807	448.30	29+50.57	20.97	755,738.80	2,343,597.86
808	448.10	29+41.80	16.24	755,740.68	2,343,588.07
809	448.03	29+38.46	15.19	755,740.69	2,343,584.58
810	448.04	29+38.46	13.93	755,741.89	2,343,584.20
811	447.92	29+33.22	13.81	755,740.44	2,343,579.16
812	447.75	29+26.19	14.13	755,738.03	2,343,572.55

0 20 40 60
SCALE IN FEET

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LOCHMUELLER GROUP
1926 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alexhuelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= WARP 05	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

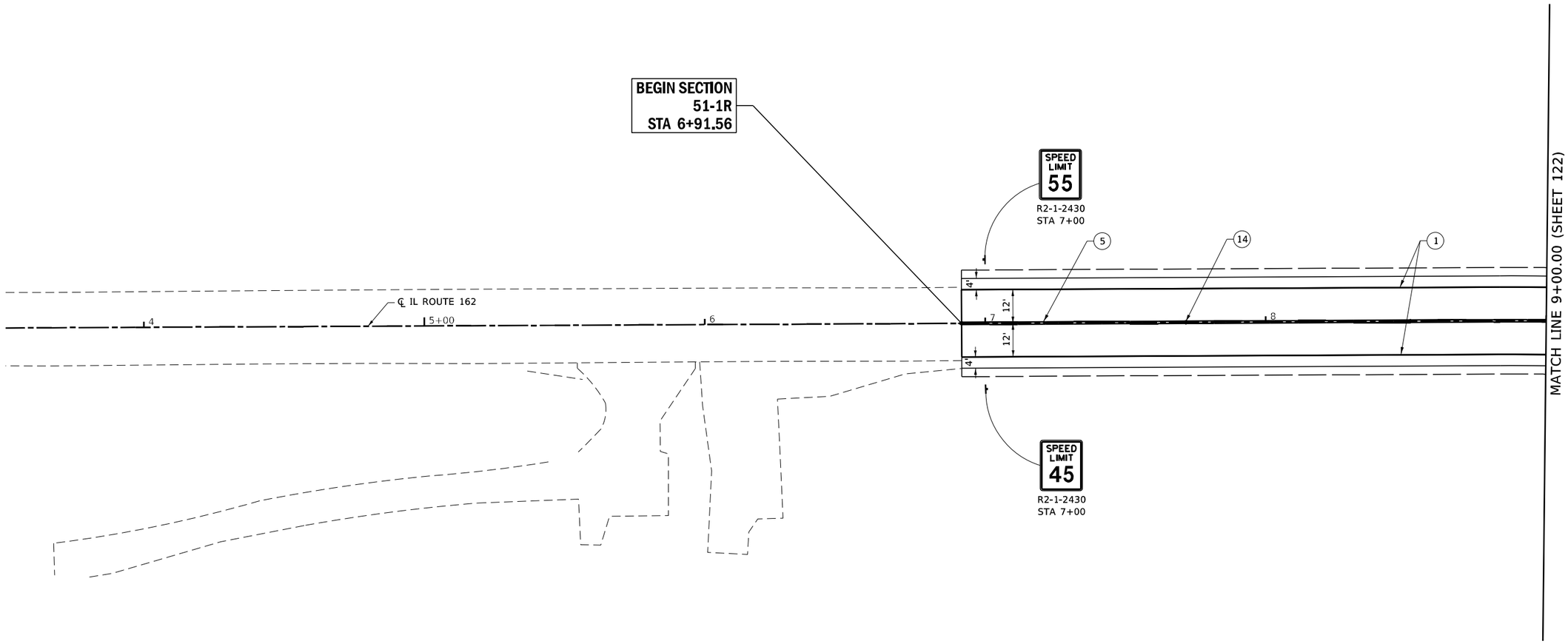
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS
IL ROUTE 157 AND MCT ENTRANCE

SCALE: 1"=20' | SHEET 5 OF 5 SHEETS | WARP MCT ENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	120
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
8. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW
9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
22. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE
23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

FILE NAME: \\lochnc\root\Production\Files\2020\120-0018\CAD\CADD Sheets\0876A46-sht-Pavement Marking.dgn

LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

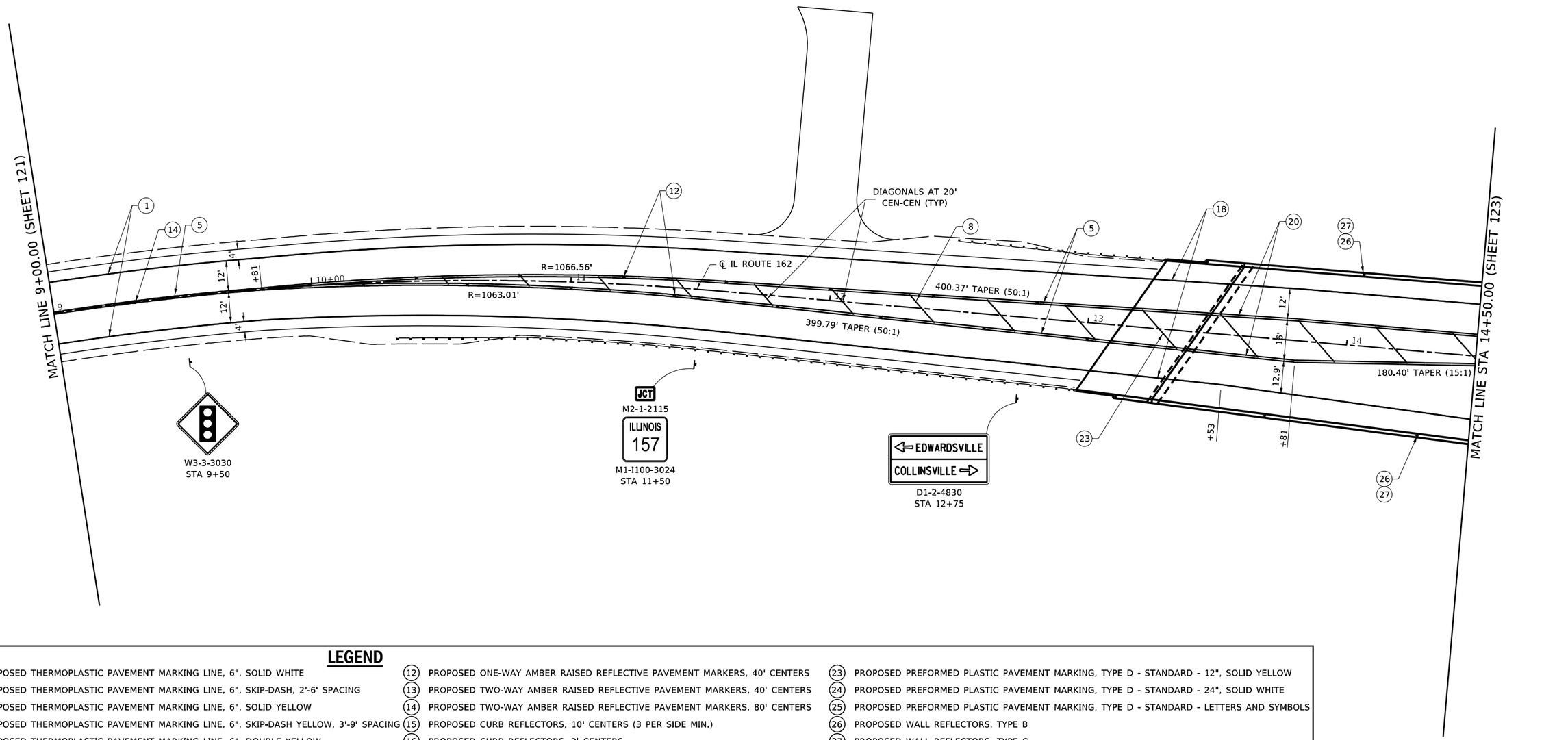
USER NAME	= Jordan.Pettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 1 OF 9 SHEETS | STA 4+00.00 TO STA 9+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	121
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
8. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW
9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
22. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE
23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

LOCHMUELLER GROUP
1928 S.N. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= JordanPettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 02	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

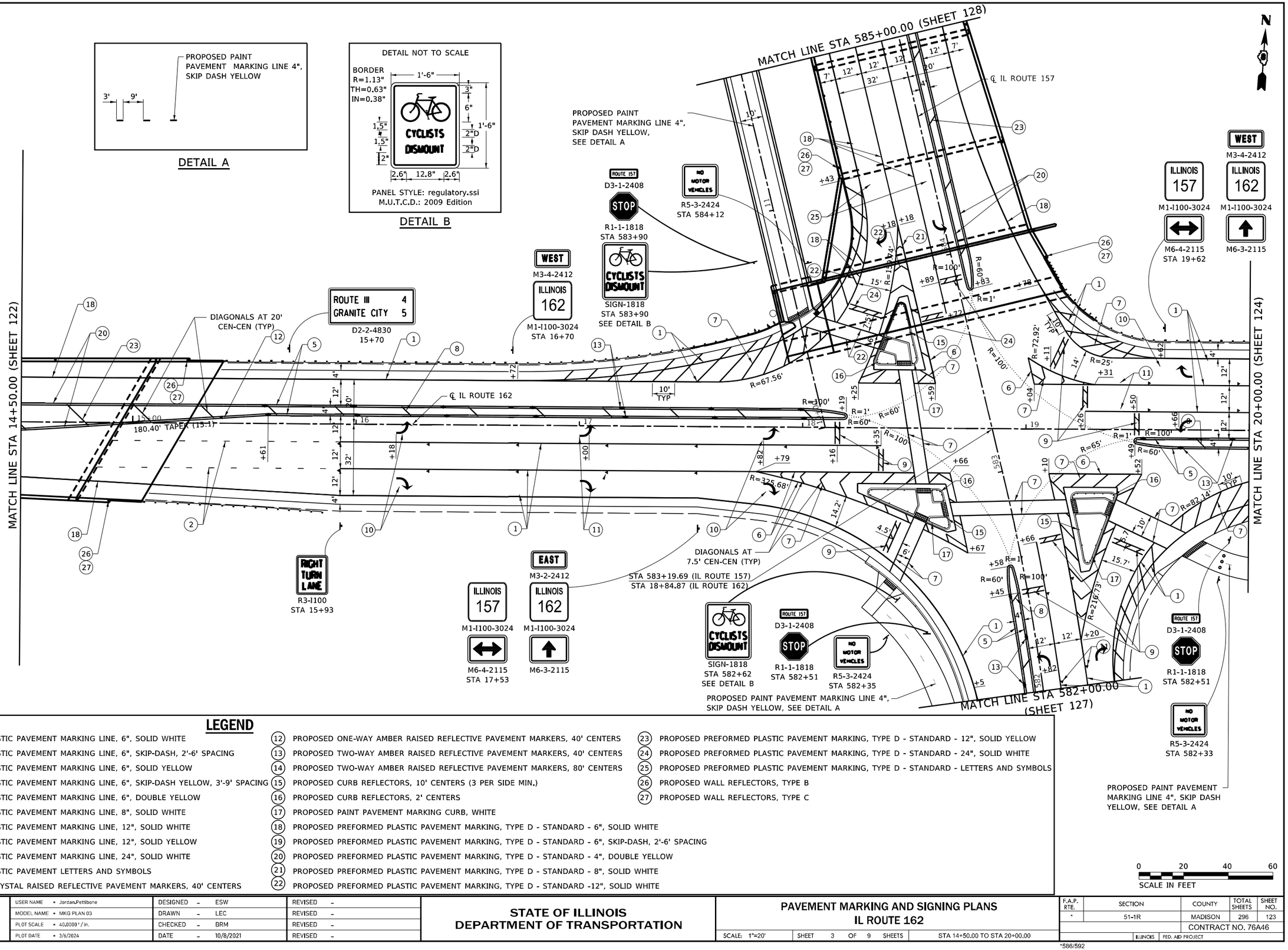
PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 2 OF 9 SHEETS | STA 9+00.00 TO STA 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	122
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

FILE NAME: \\loch.loc\root\Production\Files\2020\20-0018\CADD\CADD Sheets\DB76A46-sht-Pavement Marking.dgn



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
8. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW
9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
22. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE
23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

LOCHMUELLER GROUP
3928 Sirk Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= Jordan.Pettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 03	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

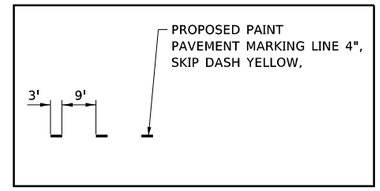
PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 3 OF 9 SHEETS | STA 14+50.00 TO STA 20+00.00

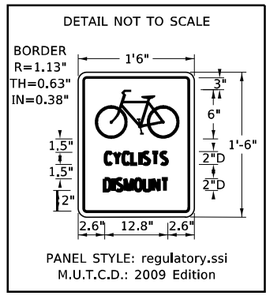
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	123
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

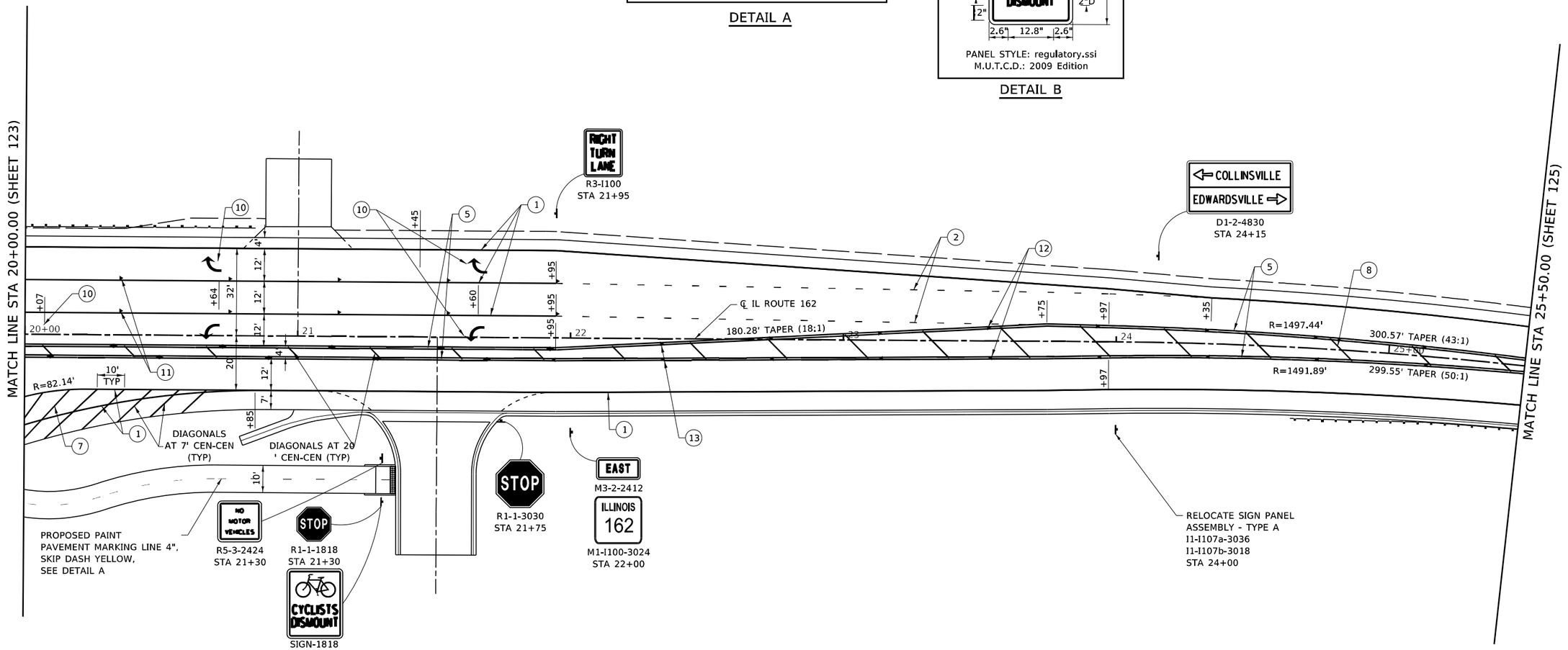
FILE NAME: \\lochlocroot\Production\Files\2020\420-001B\CAD\CADD Sheets\D876A46-sht-Pavement Marking.dgn



DETAIL A



DETAIL B



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
8. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW
9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
22. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE
23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

FILE NAME: \\lochlvoot\Production\Files\2020\420-0018\CAD\CADD Sheets\DB76A46-sht-Pavement Marking.dgn

LOCHMUELLER GROUP
1928 S.R. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= JordanPettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 04	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

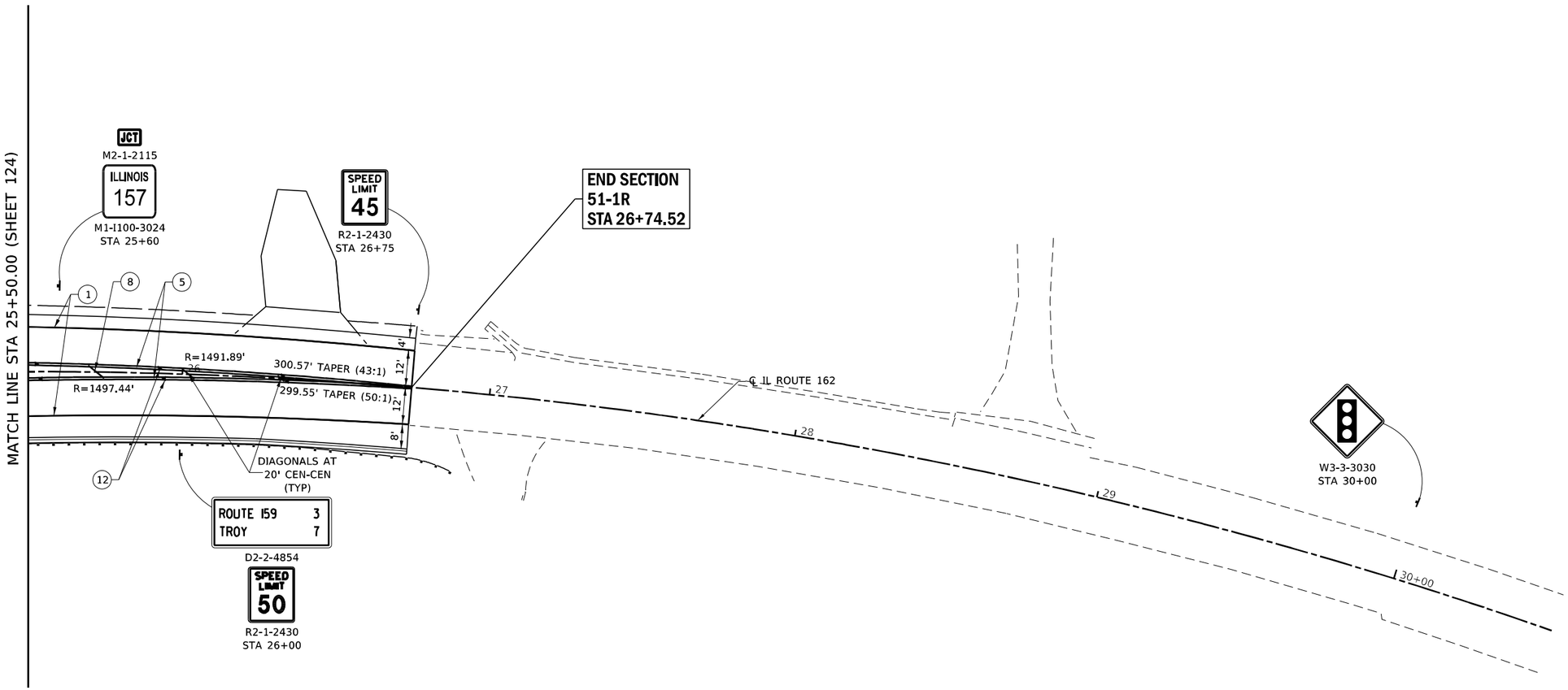
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 4 OF 9 SHEETS | STA 20+00.00 TO STA 25+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	124
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
8. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW
9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
22. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE
23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

LOCHMUELLER GROUP
3928 Sr-A Bradley K. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= Jordan.Pettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 05	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

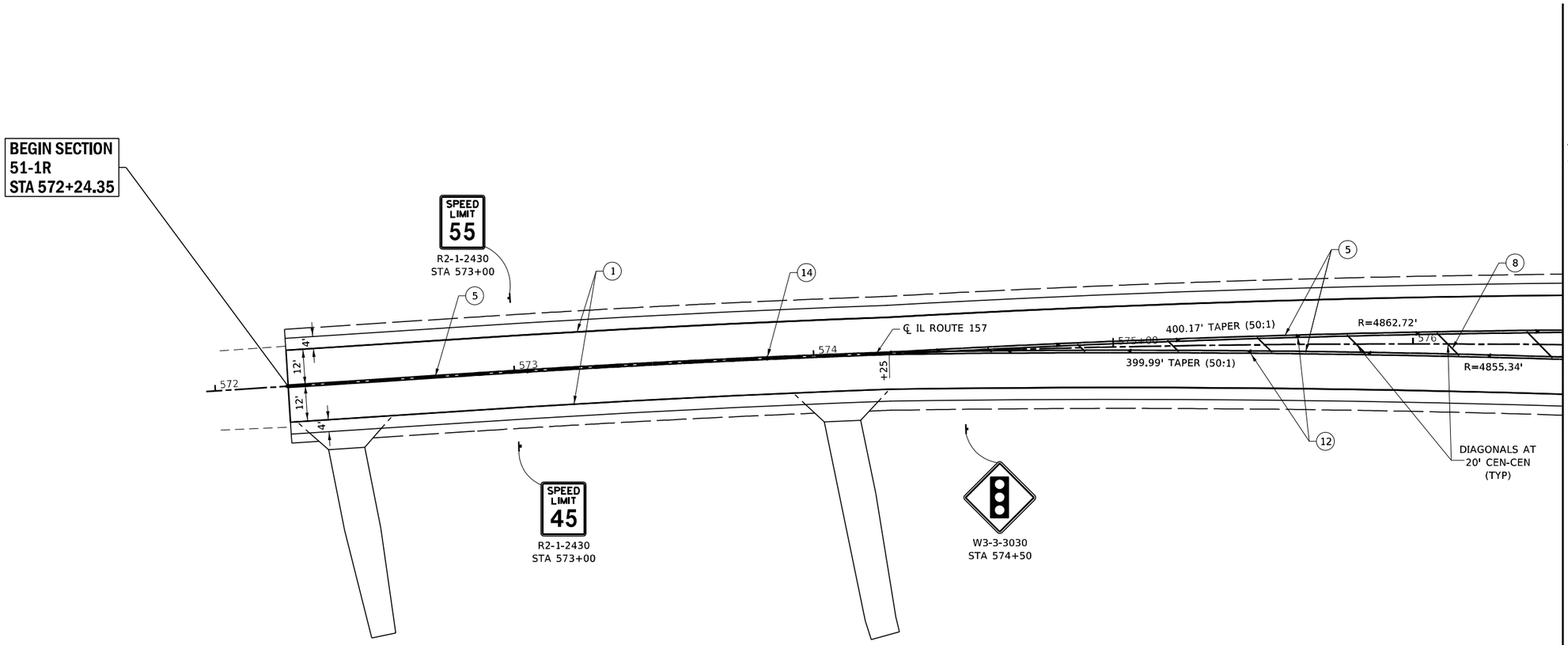
PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 162

SCALE: 1"=20' | SHEET 5 OF 9 SHEETS | STA 25+50.00 TO STA 30+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	125
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

FILE NAME: \\loch.loc\root\Production\Files\2020\420-B018\CAD\CADD Sheets\DB76A46-sht-Pavement Marking.dgn



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
8. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW
9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
22. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE
23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

FILE NAME: \\loch.loc\root\Production\Files\2020\x20-2018\CAD\CADD Sheets\0876A46-sht-Pavement Marking.dgn

LOCHMUELLER GROUP
3928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= Jordan.Pettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 08	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 157

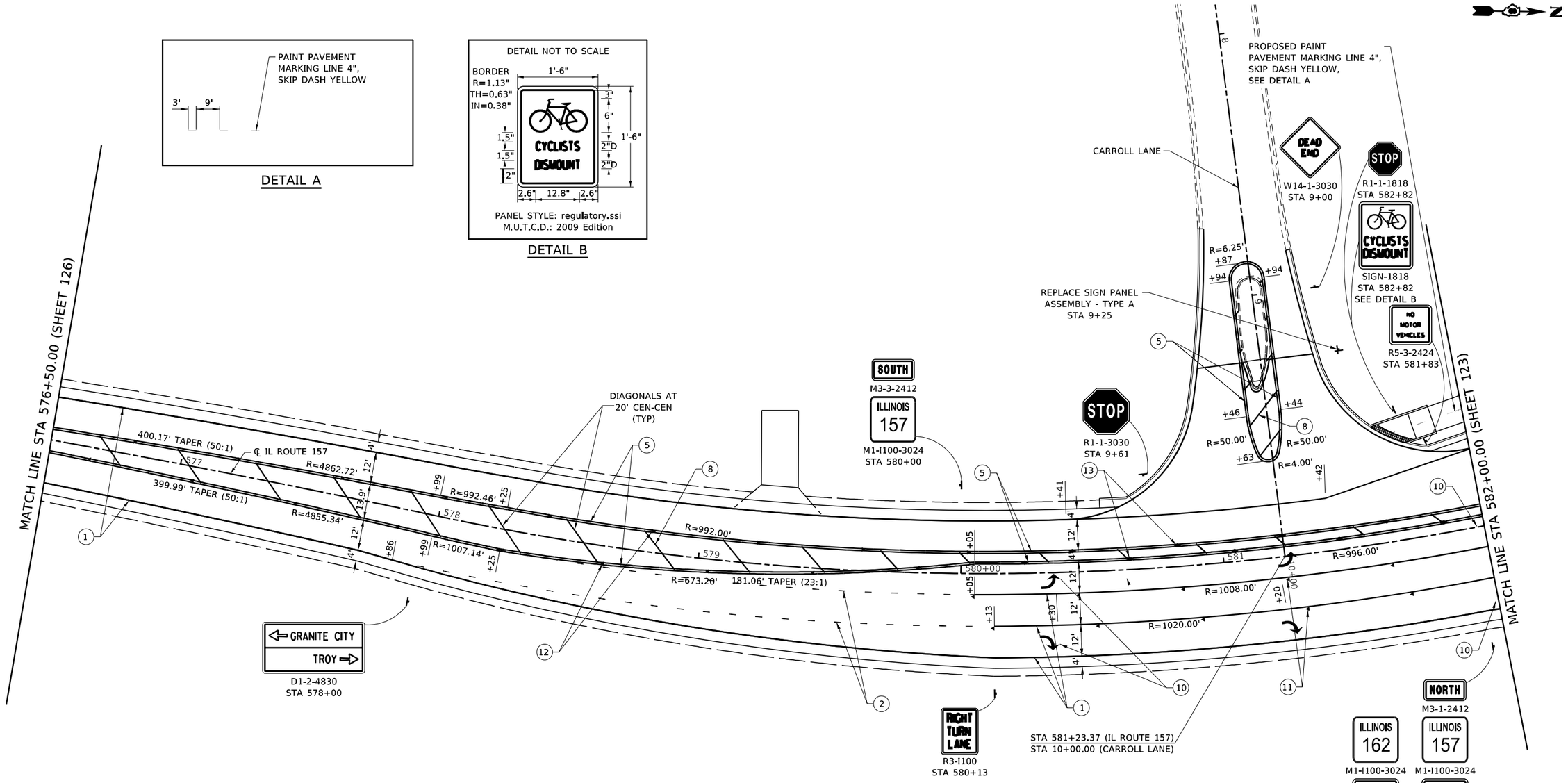
SCALE: 1"=20' | SHEET 6 OF 9 SHEETS | STA 572+00.00 TO STA 576+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	126
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

DETAIL A

DETAIL B



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
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9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
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23. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW
24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

FILE NAME: \\lochlocvoot\Production\Files\2020\420-0018\CAD\CADD Sheets\DB76A46-sht-Pavement Marking.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= JordanPettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 07	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 7 OF 9 SHEETS | STA 576+50.00 TO STA 582+00.00

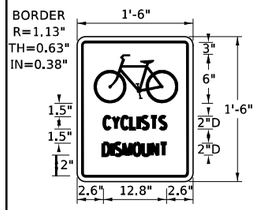
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	127
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

MATCH LINE STA 13+72.60

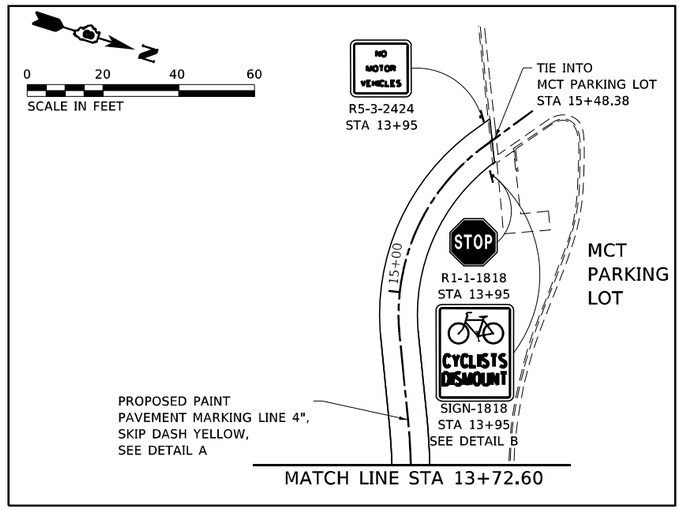
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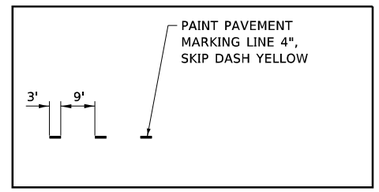
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TH=0.63"
IN=0.38"



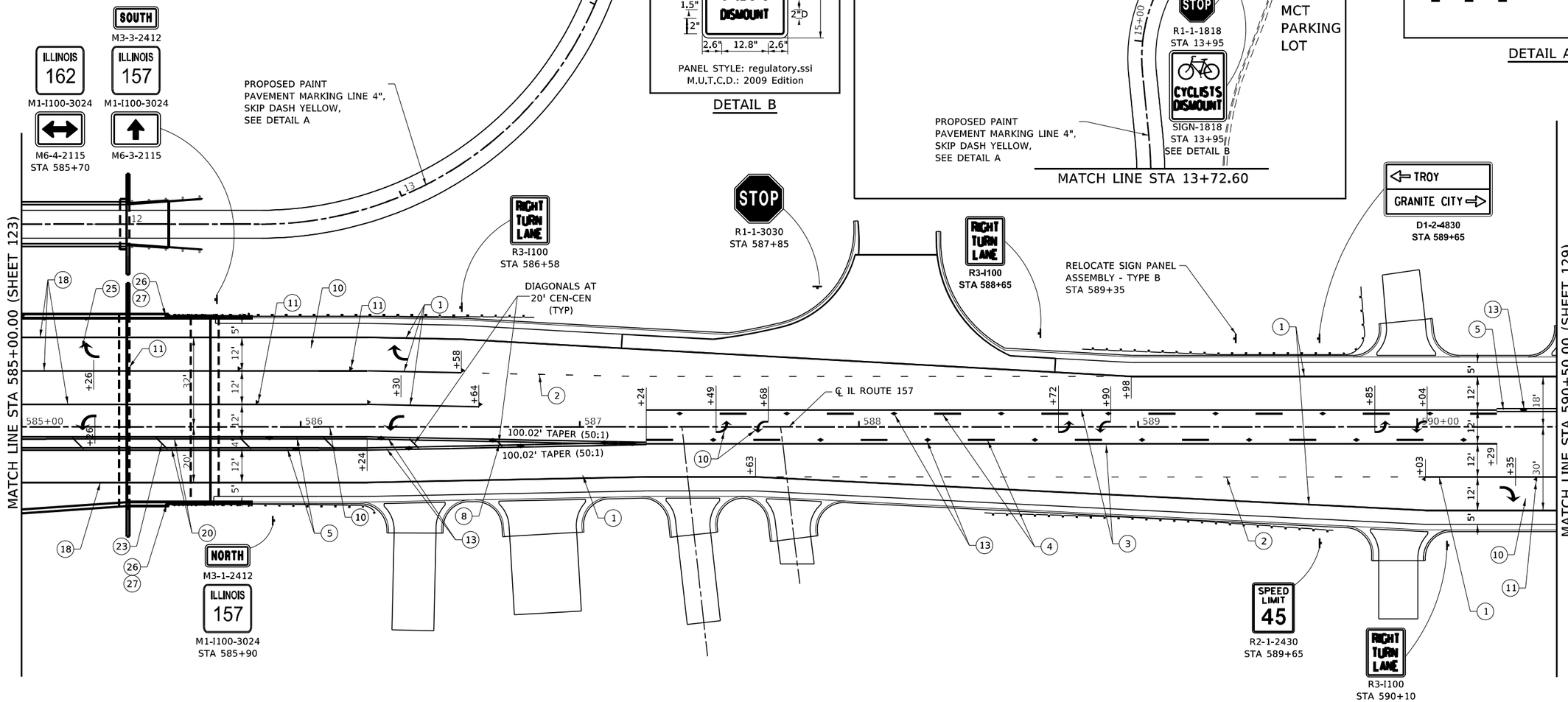
PANEL STYLE: regulatory.ssi
M.U.T.C.D.: 2009 Edition

DETAIL B





DETAIL A



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
3. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW
4. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING
5. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW
6. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE
7. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE
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9. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE
10. PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS
11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
12. PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
13. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
20. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW
21. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE
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26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

LOCHMUELLER GROUP
3928 Sta Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= JordanPettibone	DESIGNED	- ESW	REVISED	-
MODEL NAME	= MKG PLAN 08	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/6/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

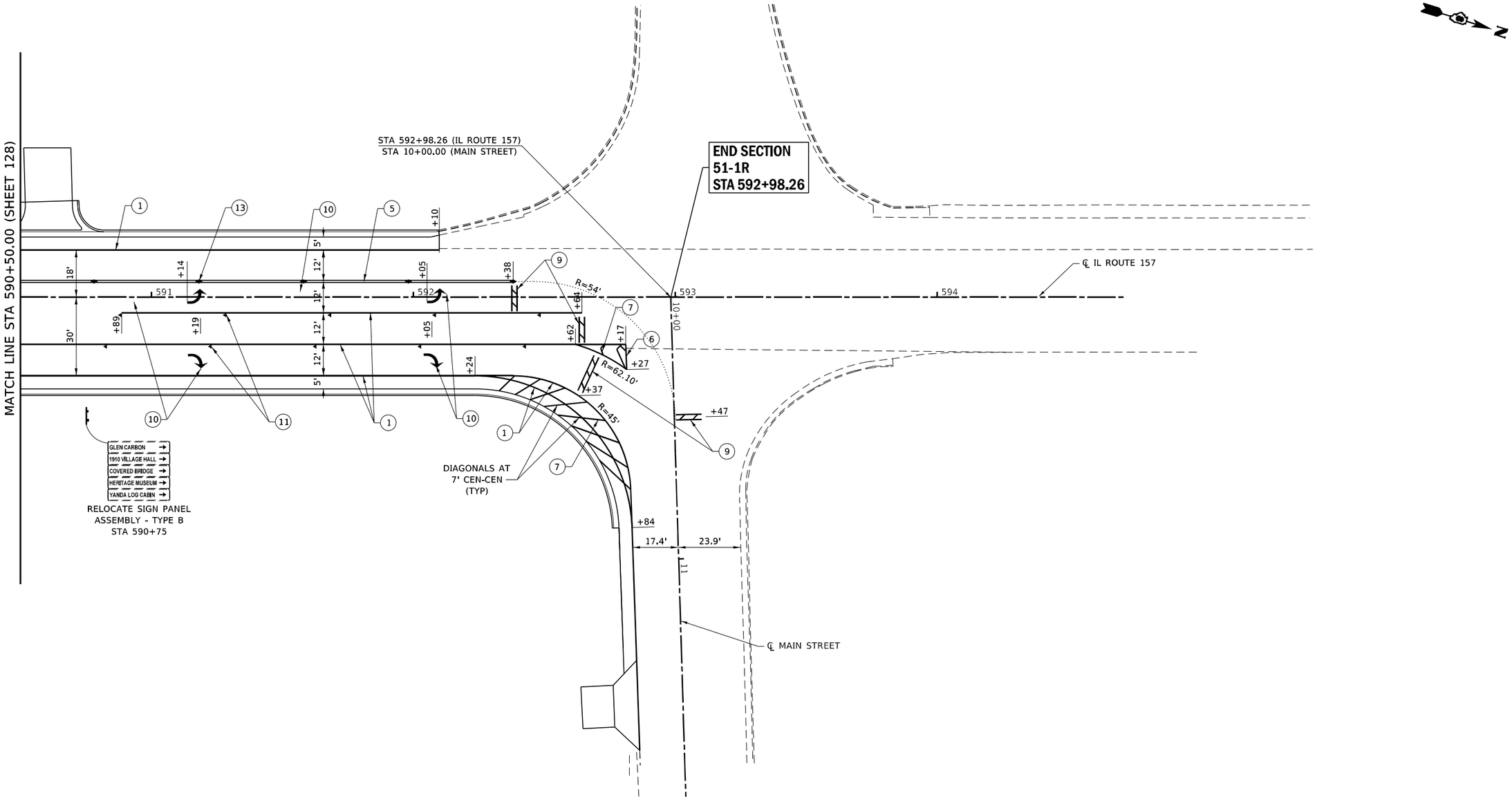
PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 8 OF 9 SHEETS | STA 582+00.00 TO STA 590+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	128
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

FILE NAME: \\lochlocvoot\Production\Files\2020\20-0018\CAD\CADD Sheets\DB76A46-sht-Pavement Marking.dgn



LEGEND

1. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE
2. PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING
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11. PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS
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14. PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS
15. PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.)
16. PROPOSED CURB REFLECTORS, 2' CENTERS
17. PROPOSED PAINT PAVEMENT MARKING CURB, WHITE
18. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE
19. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING
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24. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE
25. PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS
26. PROPOSED WALL REFLECTORS, TYPE B
27. PROPOSED WALL REFLECTORS, TYPE C

0 20 40 60
SCALE IN FEET

LOCHMUELLER GROUP
1928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	Jordan.Pettibone	DESIGNED	ESW	REVISED	–
MODEL NAME	MKG PLAN 09	DRAWN	LEC	REVISED	–
PLOT SCALE	40.0000 ' / in.	CHECKED	BRM	REVISED	–
PLOT DATE	3/6/2024	DATE	10/8/2021	REVISED	–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 157

SCALE: 1"=20' | SHEET 9 OF 9 SHEETS | STA 590+50.00 TO STA 595+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	129
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

FILE NAME: \\loch.loc\root\Production\Files\2020\420-001B\CAD\CADD Sheets\10876A46-sht-Pavement Marking.dgn

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 157 @ IL 162
CODE NO.	ITEM	UNIT		
72000100	SIGN PANEL - TYPE 1	SQ FT	55	25
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	988	621
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	640	627
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	116	116
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	48	48
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	135	135
81400100	HANDHOLE	EACH	15	12
81400300	DOUBLE HANDHOLE	EACH	1	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1
87100160	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	1130	1130
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1375	1375
87301235	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	FOOT	1410	1410
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5207	4237
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2028	1061
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	34	34
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1400	1310
87500800	TRAFFIC SIGNAL POST, 12 FT.	EACH	3	3
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1	1
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1	1
87703080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9	9
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3	3
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43	28
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46	46
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	10
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	6	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6	2
88102840	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4	4
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18	12
X8710103	ETHERNET SWITCH	EACH	1	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4	4
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1	1

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LOCHMUELLER GROUP
1928 S.R. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alexhuelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
QUANTITIES - IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 1 OF 13 SHEETS | SUMMARY OF QUANTITIES 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	130
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD), HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE ALL 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM.

BACKPLATES SHALL BE ABS PLASTIC.

CONTROLLER CABINET, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM.

THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.

ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.

DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM SUPPORTS (DETERMINED BY TABLE ON IDOT HIGHWAY STANDARD 878001) ARE:

N.W. QUADRANT	15'-0"	(36" DIA.)
N.E. QUADRANT	13'-0"	(36" DIA.)
S.E. QUADRANT	21'-0"	(42" DIA.)
S.W. QUADRANT	25'-0"	(42" DIA.)

ALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNITS SHALL INCLUDE A 6-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.

ALL IMPROVED PEDESTRIAN RELATED FACILITIES MUST COMPLY WITH CURRENT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). REFER TO CURB RAMP DETAIL SHEETS AND IDOT STANDARDS FOR INFORMATION PERTAINING TO THE CONSTRUCTION OF THE PROPOSED CURB RAMPS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PEDESTRIAN SIGNAL EQUIPMENT WITH SIDEWALK AND CURB RAMP CONSTRUCTION TO ENSURE FINAL LOCATIONS ARE COMPLIANT WITH ADA STANDARDS.

DIRECTIONAL BORING OR PUSHING OF CONDUIT MAY BE USED INSTEAD OF TRENCHING CONDUIT; HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE.

CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED AS PART OF THE WORK ASSOCIATED WITH INSTALLING RESPECTIVE CONDUIT PAY ITEMS.

CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASE IS IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN RELATED PHASES ARE IN THE GREEN MODE.

SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (J.U.L.I.E.) IN SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE YOU PLAN TO DIG.

PRIOR TO CONSTRUCTION ACTIVITIES TAKING PLACE, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POWER COMPANY TO VERIFY RECOMMENDED POWER SOURCE LOCATION TO ACCOMMODATE THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS.

TRAFFIC SIGNAL LEGEND

	PROPOSED SERVICE INSTALLATION
	PROPOSED CONTROLLER
	PROPOSED DOUBLE HANDHOLE
	PROPOSED DOUBLE HANDHOLE
	PROPOSED SIGNAL POST
	PROPOSED SIGNAL HEAD
	PROPOSED SIGNAL HEAD WITH BACKPLATE
	PROPOSED STEEL MAST ARM ASSEMBLY
	PROPOSED UNDERGROUND CONDUIT
	PROPOSED SIGNAL HEAD
	PROPOSED APS PEDESTRIAN PUSH BUTTON UNIT W/ 6" EXTENSION BRACKET
PVCC	POLYVINYL CHLORIDE CONDUIT
GSC	GALVANIZED STEEL CONDUIT

STANDARDS

720016-04
805001-01
814001-03
814006-02
857001-01
873001-02
877011-10
877012-07
878001-11
880006-01

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LOCHMUELLER GROUP
3928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 02	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
GENERAL NOTES - IL ROUTE 157 AND IL ROUTE 162

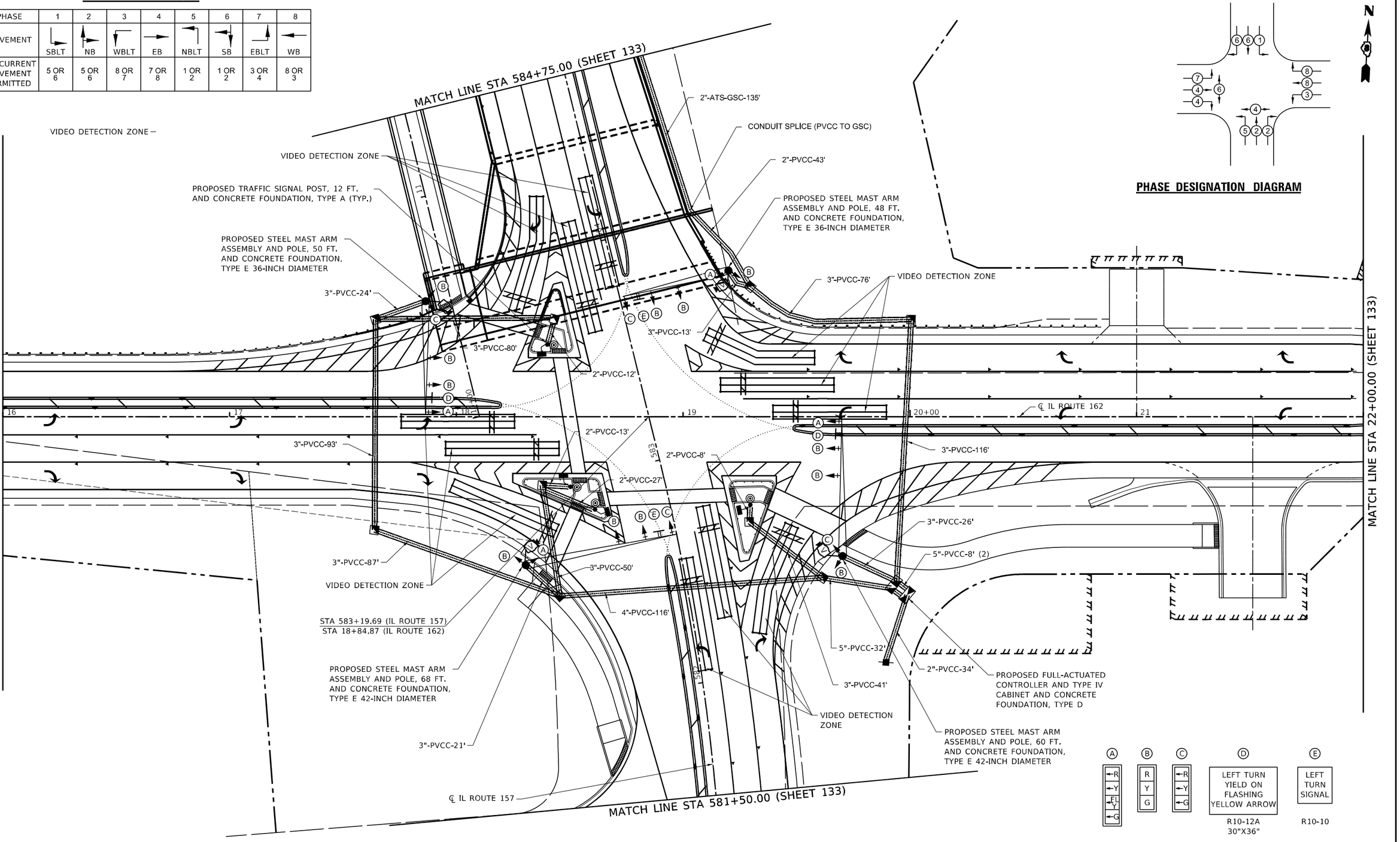
SCALE: 1"=20' | SHEET 2 OF 13 SHEETS | GENERAL NOTES 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	131
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

CONTROLLER PHASING

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SBLT	NB	WBLT	EB	NBLT	SB	EBLT	WB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	8 OR 7	7 OR 8	1 OR 2	1 OR 2	3 OR 4	8 OR 3



PHASE DESIGNATION DIAGRAM

N

Ⓐ R, Y, FLY, G

Ⓑ R, Y, G

Ⓒ R, Y, G

Ⓓ LEFT TURN YIELD ON FLASHING YELLOW ARROW — R10-12A 30"X36"

Ⓔ LEFT TURN SIGNAL — R10-10

0 20 40 60
SCALE IN FEET

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USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 03	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

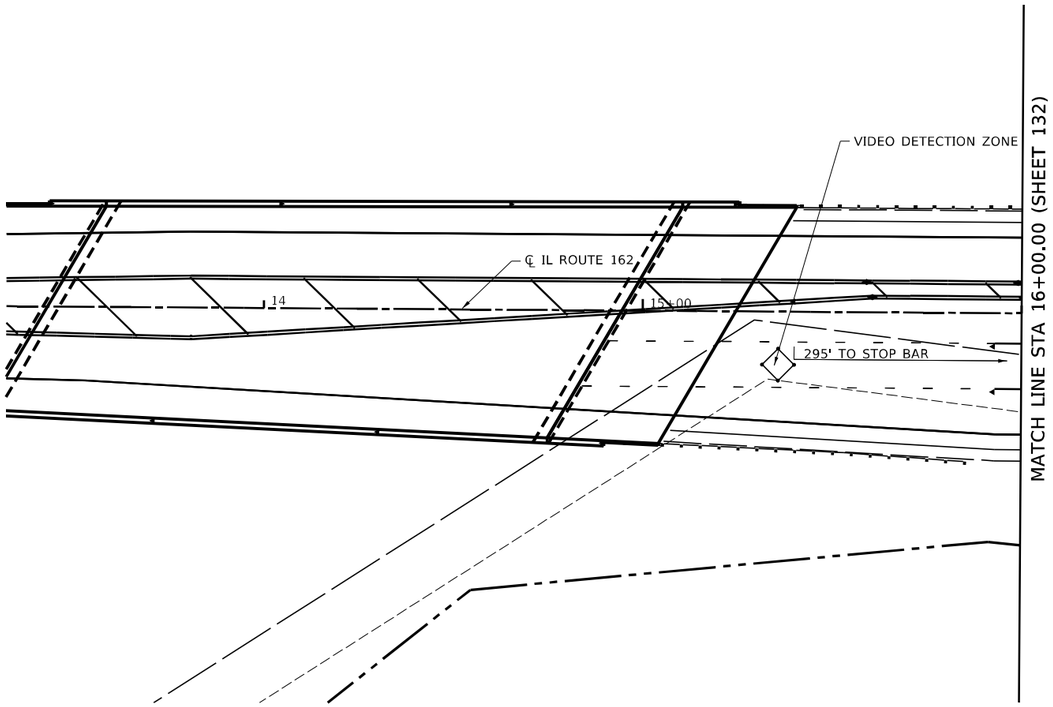
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

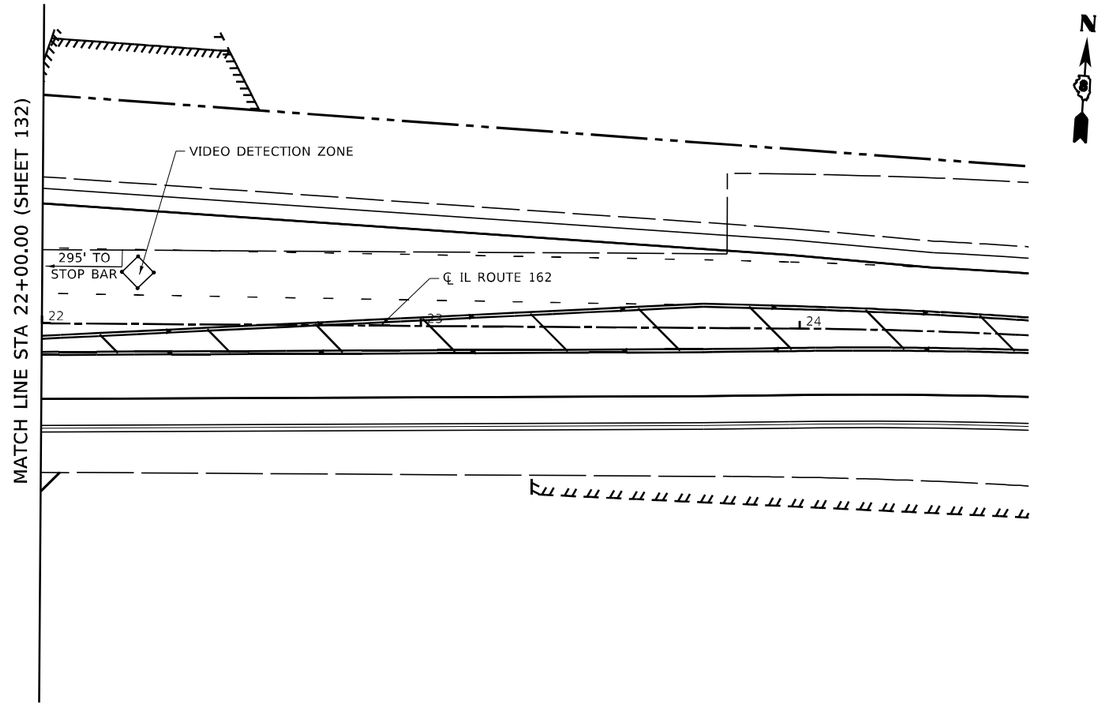
TRAFFIC SIGNAL PLANS
IL ROUTE 157 AND IL ROUTE 162

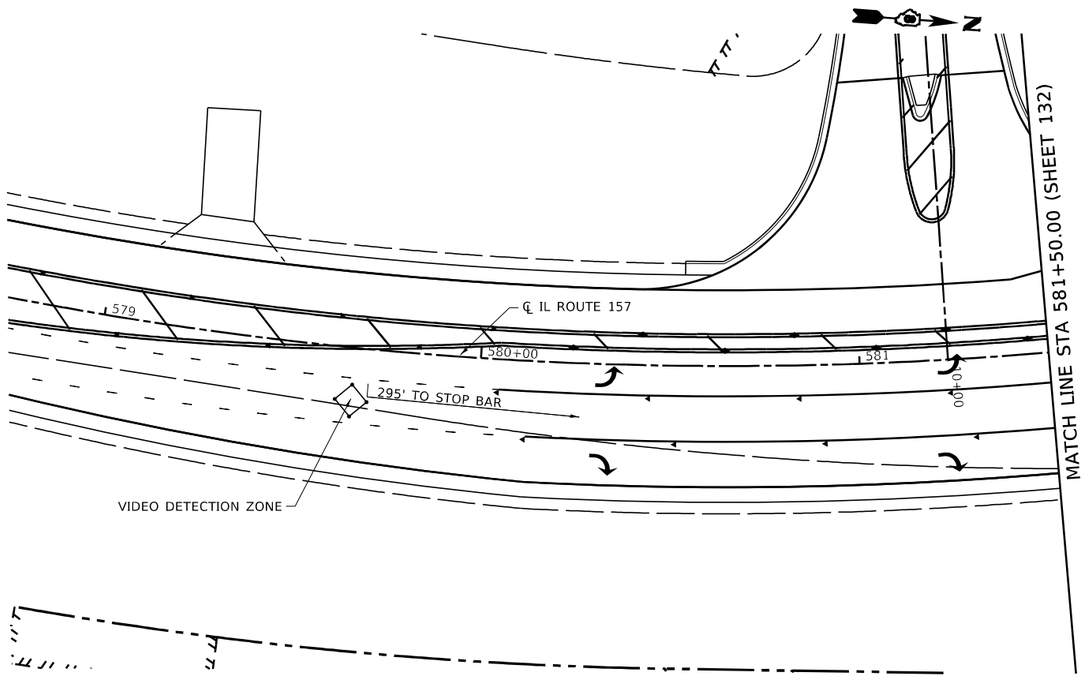
SCALE: 1"=20' | SHEET 3 OF 13 SHEETS | TS PLANS 157/162

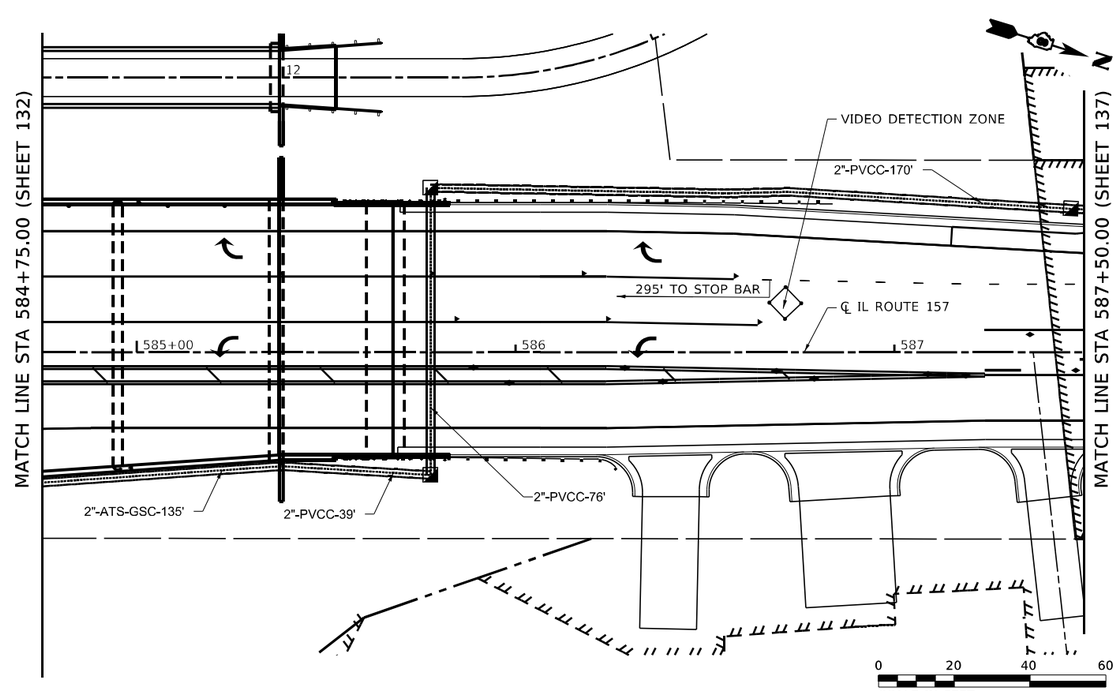
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	132
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 04	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

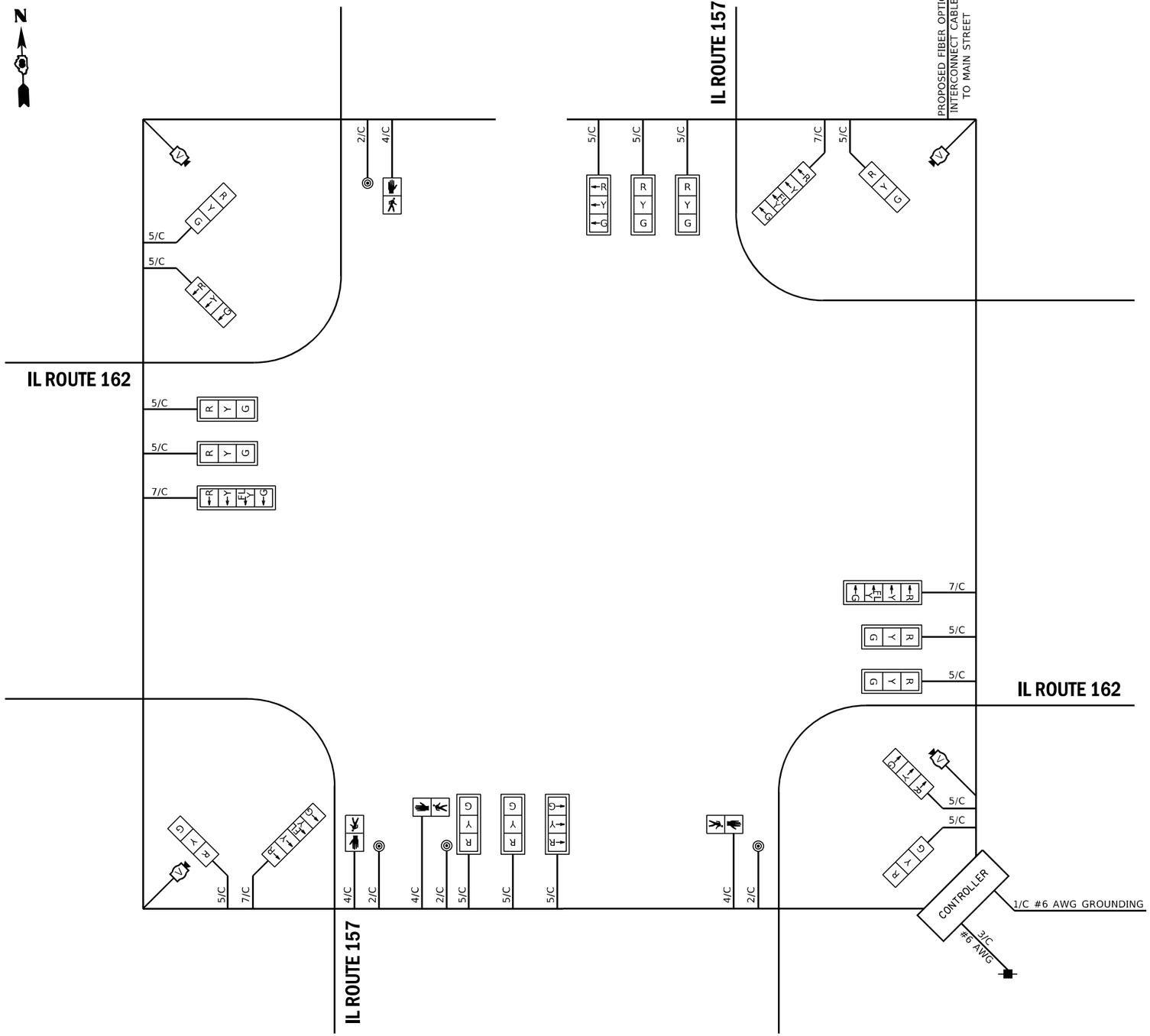
STATE OF ILLINOIS
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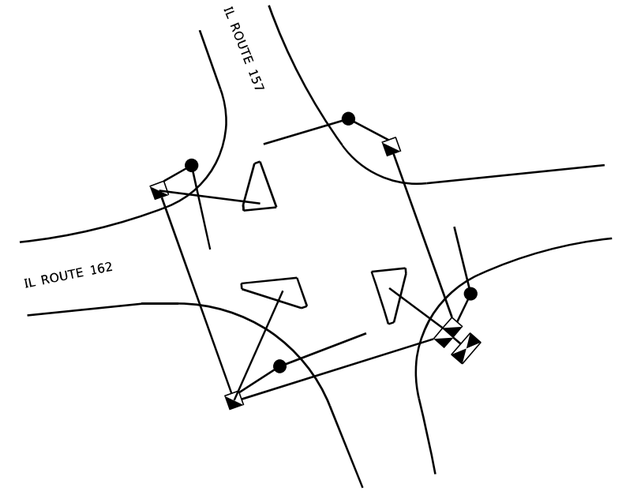
TRAFFIC SIGNAL PLANS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 4 OF 13 SHEETS | TS PLANS 157/167

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	133
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592





GROUNDING SCHEMATIC

CABLE DIAGRAM LEGEND

- PROPOSED ELECTRIC CABLE IN CONDUIT
- SERVICE INSTALLATION
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
- PROPOSED APS PUSH BUTTON WITH 6-INCH EXTENSION BRACKET
- PROPOSED VIDEO DETECTION CAMERA
- PROPOSED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER

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LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
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USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 05	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
CABLE DIAGRAM - IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20' | SHEET 5 OF 13 SHEETS | CABLE DIAGRAM 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	134
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 157 @ N MAIN
CODE NO.	ITEM	UNIT		
72000100	SIGN PANEL - TYPE 1	SQ FT	55	30
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	30	30
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	194	194
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	97	97
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	988	367
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	640	13
81400100	HANDHOLE	EACH	15	3
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5207	970
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2028	967
87301805	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1867	1867
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1400	90
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43	15
87900200	DRILL EXISTING HANDHOLE	EACH	2	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	2
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	6	4
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6	4
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	1	1
88600100	DETECTOR LOOP, TYPE I	FOOT	688	688
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3338	3338
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	3	3
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	1
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1

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LOCHMUELLER GROUP
3528 Fifth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 06	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
QUANTITIES - IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' | SHEET 6 OF 13 SHEETS | SUMMARY OF QUANTITIES MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	135
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

GENERAL NOTES

TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD), HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE ALL 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM.

THE CONTRACTOR SHALL VERIFY ALL NEW SIGNAL HEAD LOCATIONS PRIOR TO INSTALLATION. A MINIMUM SPACING OF 8 FT. SHALL BE MAINTAINED BETWEEN ALL EXISTING AND PROPOSED MAST ARM MOUNTED SIGNAL HEADS. ANY UNUSED OPENINGS REMAINING IN THE SIGNAL MAST ARMS OR POLES SHALL BE FILLED OR COVERED, TO THE SATISFACTION OF THE ENGINEER.

BACKPLATES SHALL BE ABS PLASTIC.

CONTROLLER CABINET, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM.

THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.

ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.

DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM SUPPORTS (DETERMINED BY TABLE ON IDOT HIGHWAY STANDARD 787001) ARE:
S.E. QUADRANT 15'-0" (36" DIA.)

CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED AS PART OF THE WORK ASSOCIATED WITH INSTALLING RESPECTIVE CONDUIT PAY ITEMS.

ALL UNUSED AND/OR UNNECESSARY TRAFFIC SIGNAL CABLES SHALL BE COMPLETELY REMOVED FROM THE EXISTING CONDUIT SYSTEM, IF POSSIBLE, TO ENSURE ADEQUATE CONDUIT CAPACITY. ALL UNUSED CONDUITS SHALL BE REMOVED OR ABANDONED.

DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873.03 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN CORE SOLDER SHALL BE USED.

CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASE IS IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN RELATED PHASES ARE IN THE GREEN MODE.

SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (J.U.L.I.E.) IN SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE YOU PLAN TO DIG.

PRIOR TO CONSTRUCTION ACTIVITIES TAKING PLACE, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POWER COMPANY TO VERIFY THAT NO MODIFICATIONS TO THE EXISTING POWER SOURCE LOCATIONS WILL BE REQUIRED TO ACCOMMODATE THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING FACILITIES NOT EXPLICITLY IDENTIFIED AS BEING REMOVED OR RELOCATED IN THE PLANS THAT ARE DISTURBED OR OTHERWISE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION.

ANY EQUIPMENT REMOVED FROM THE PROJECT INTERSECTION AND NOT UTILIZED IN THE FINAL INSTALLATION SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

NO.	LOOP	PHASE	LOOP SIZE (FT)	REQ'D NO OF TURNS	CALCULATED INDUCTANCE (uH)	CALCULATED RESISTANCE (OHMS)
1	NB CCO	2	6 X 6	6	350.6	2.54
2	NB LT CD	5	50 X 6	3-6-3	830.9	2.61
3	NB THRU CD	2	50 X 6	3-6-3	825.8	2.50
4	NB THRU CD	2	50 X 6	3-6-3	823.8	2.45

TRAFFIC SIGNAL LEGEND

EXISTING SERVICE INSTALLATION
EXISTING CONTROLLER
EXISTING HANDHOLE
EXISTING DOUBLE HANDHOLE
EXISTING SIGNAL HEAD
EXISTING SIGNAL HEAD WITH BACKPLATE
EXISTING LOOP DETECTOR
EXISTING STEEL MAST ARM ASSEMBLY
EXISTING UNDERGROUND CONDUIT
PROPOSED HANDHOLE
PROPOSED SIGNAL HEAD
PROPOSED SIGNAL HEAD WITH BACKPLATE
PROPOSED LOOP DETECTOR
PROPOSED STEEL MAST ARM ASSEMBLY
PROPOSED UNDERGROUND CONDUIT
PVCC POLYVINYL CHLORIDE CONDUIT
GSC GALVANIZED STEEL CONDUIT

STANDARDS

720016-04
805001-01
812001-01
814001-03
814006-02
857001-01
862001-01
873001-02
877001-08
877002-04
878001-11
880006-01
886001-01
886006-01

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LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
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PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 07	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
GENERAL NOTES - IL ROUTE 157 AND MAIN STREET

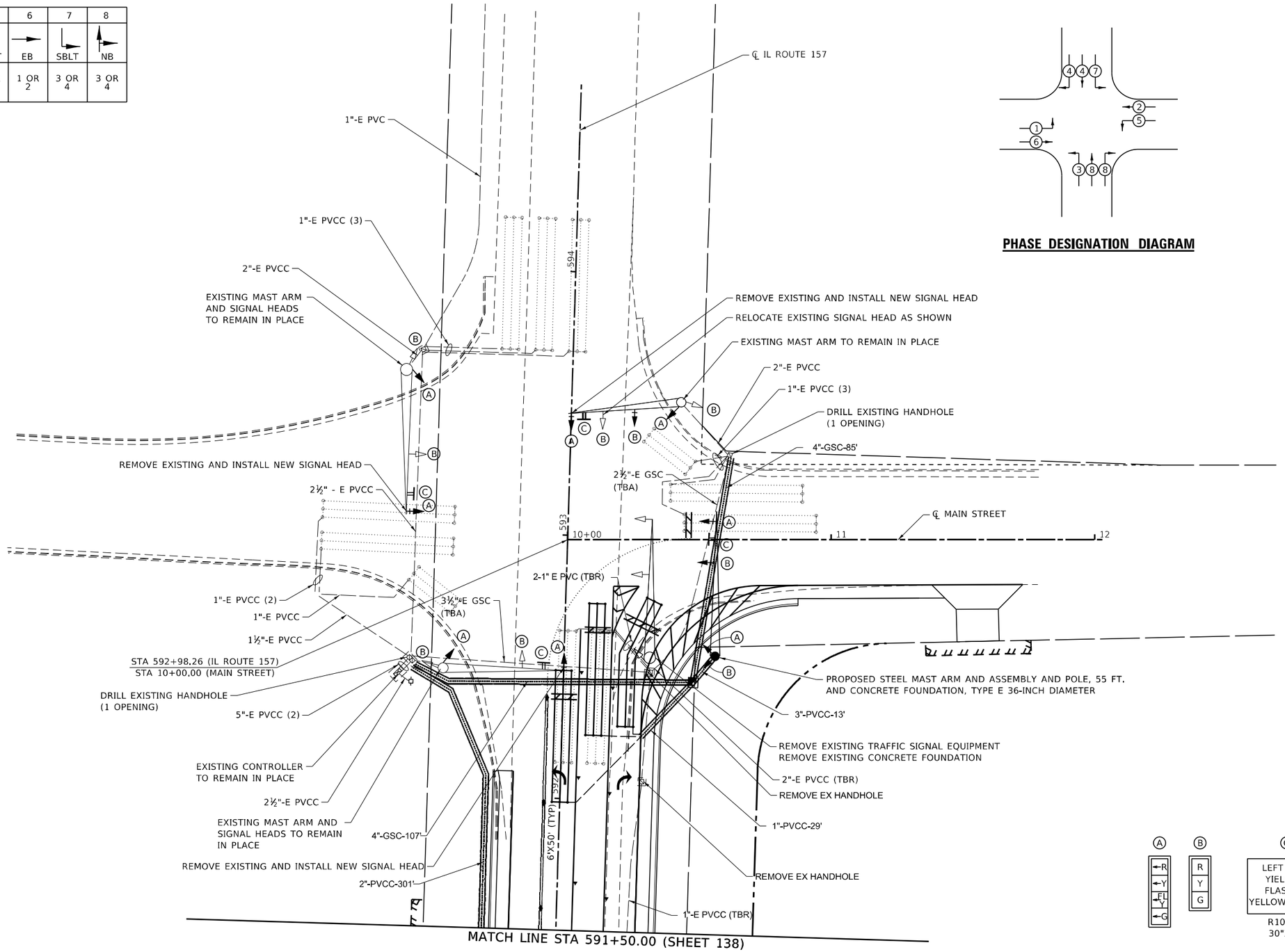
SCALE: 1"=20' | SHEET 7 OF 13 SHEETS | GENERAL NOTES MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	136
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

CONTROLLER PHASING

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	2 OR 5	7 OR 8	7 OR 8	2 OR 1	1 OR 2	3 OR 4	3 OR 4



PHASE DESIGNATION DIAGRAM

FILE NAME: \\loch.loc\root\Production\Files\2020\420-0018\CAD\CADD Sheets\0876A46-sht-Traffic Signals.dgn

LOCHMUELLER GROUP
1928 S-A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 08	DRAWN	- LEC	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

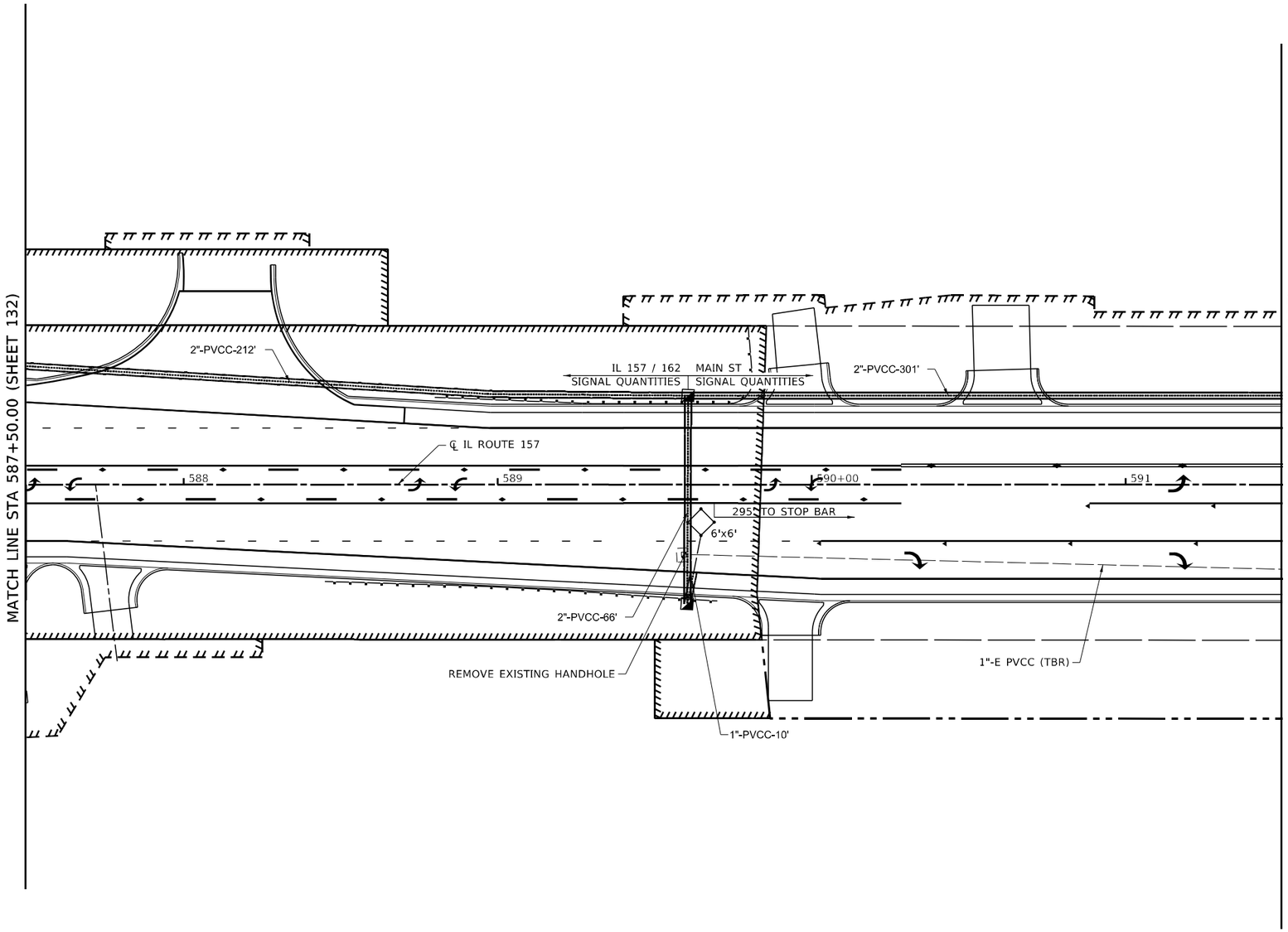
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' | SHEET 8 OF 13 SHEETS | TS PLANS MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	137
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



0 20 40 60
SCALE IN FEET

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LOCHMUELLER GROUP
1928 S.A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	alex.huelskamp	DESIGNED	ESW	REVISED	–
MODEL NAME	TS 09	DRAWN	LEC	REVISED	–
PLOT SCALE	40.0000 ' / in.	CHECKED	BRM	REVISED	–
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	–

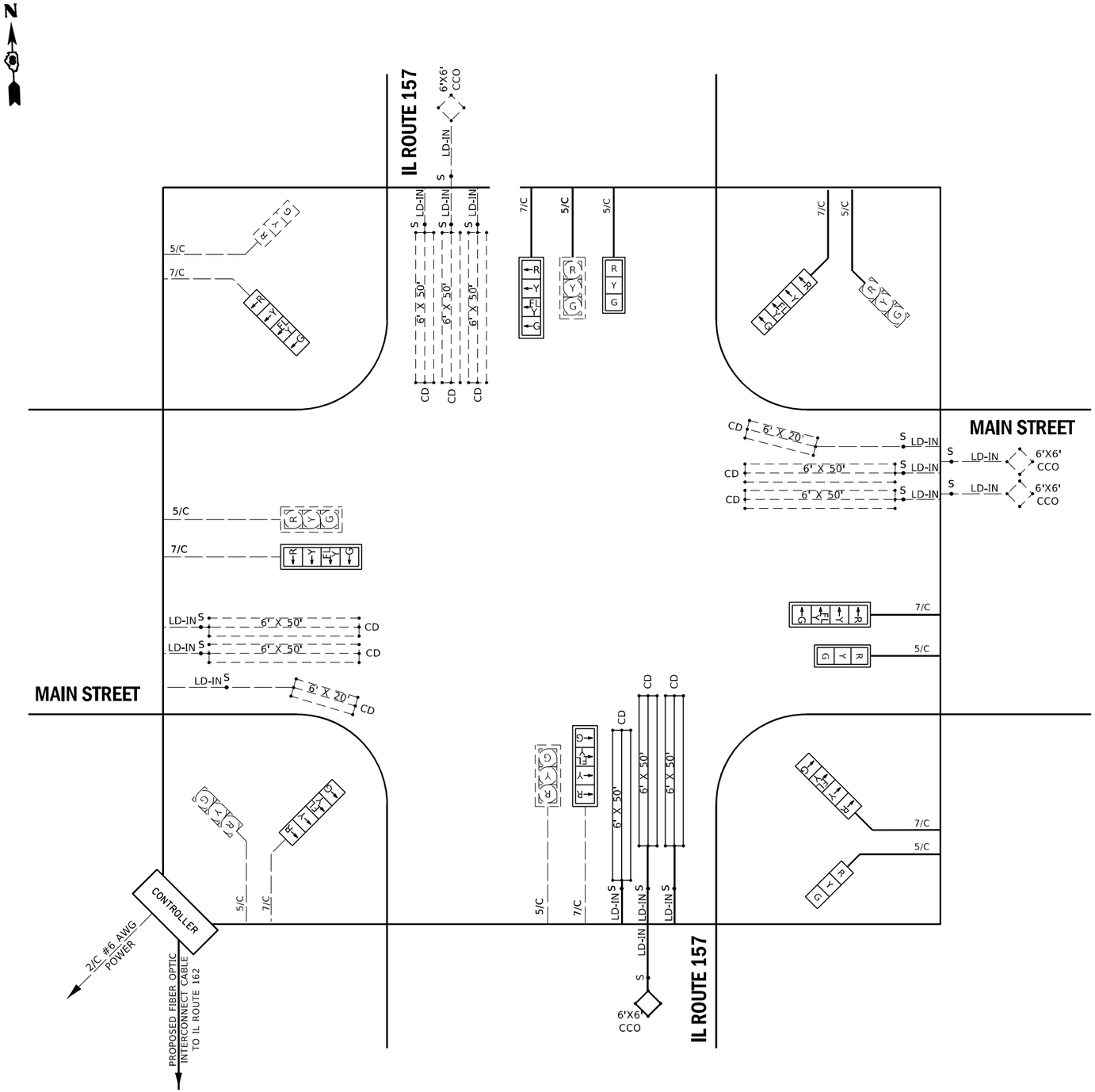
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

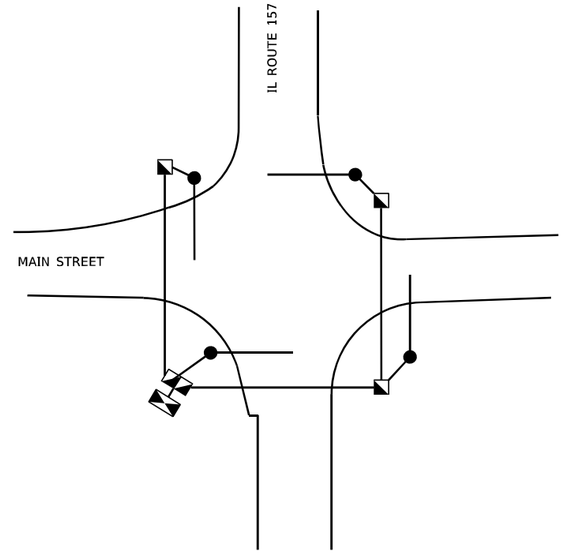
TRAFFIC SIGNAL PLANS
IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' | SHEET 9 OF 13 SHEETS | TS PLANS MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	138
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592





GROUNDING SCHEMATIC

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
— — —	EXISTING ELECTRIC CABLE IN CONDUIT
-●S-	PROPOSED CABLE SPLICE
-○S-	EXISTING CABLE SPLICE
-□-	SERVICE INSTALLATION
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
TW SH	TWISTED AND SHIELDED CABLE
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
LD-IN	ELECTRIC CABLE LEAD-IN, I-PAIR
CD	CALL DELAY (SEE GENERAL NOTES)
C.C.O.	CALL CARRY OVER (SEE GENERAL NOTES)
—~	COIL CABLE FOR FUTURE PED. PUSH-BUTTON USE

FILE NAME: \\lochlocvaost\Production\Files\2020\420-0018\CAD\CADD Sheets\0876A46-sht-Traffic Signals.dgn

LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	= alexhuelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	= TS 10	DRAWN	- LEC	REVISED	-
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PLOT DATE	= 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
CABLE DIAGRAM - IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' | SHEET 10 OF 13 SHEETS | CABLE DIAGRAM MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	139
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

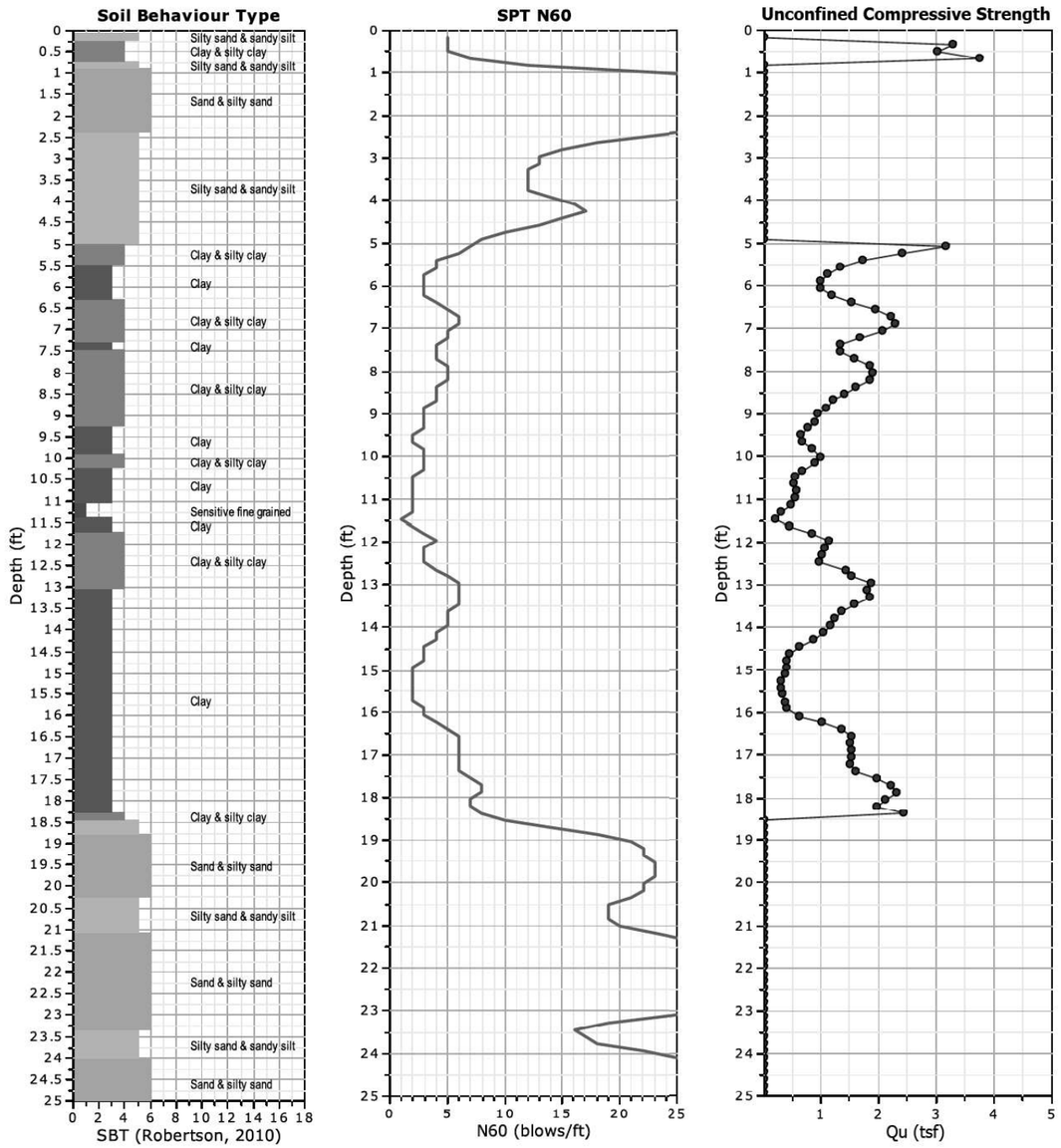
*586/592

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SCI Engineering, Inc.
650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: NW CORNER
CPT: B-6
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 438.00 ft
Coords: lat 38.740839 lon -90.002131
STA: 17+81 Offset: 50' LT
SEC: 4 TWP: 3N RNG: 8W

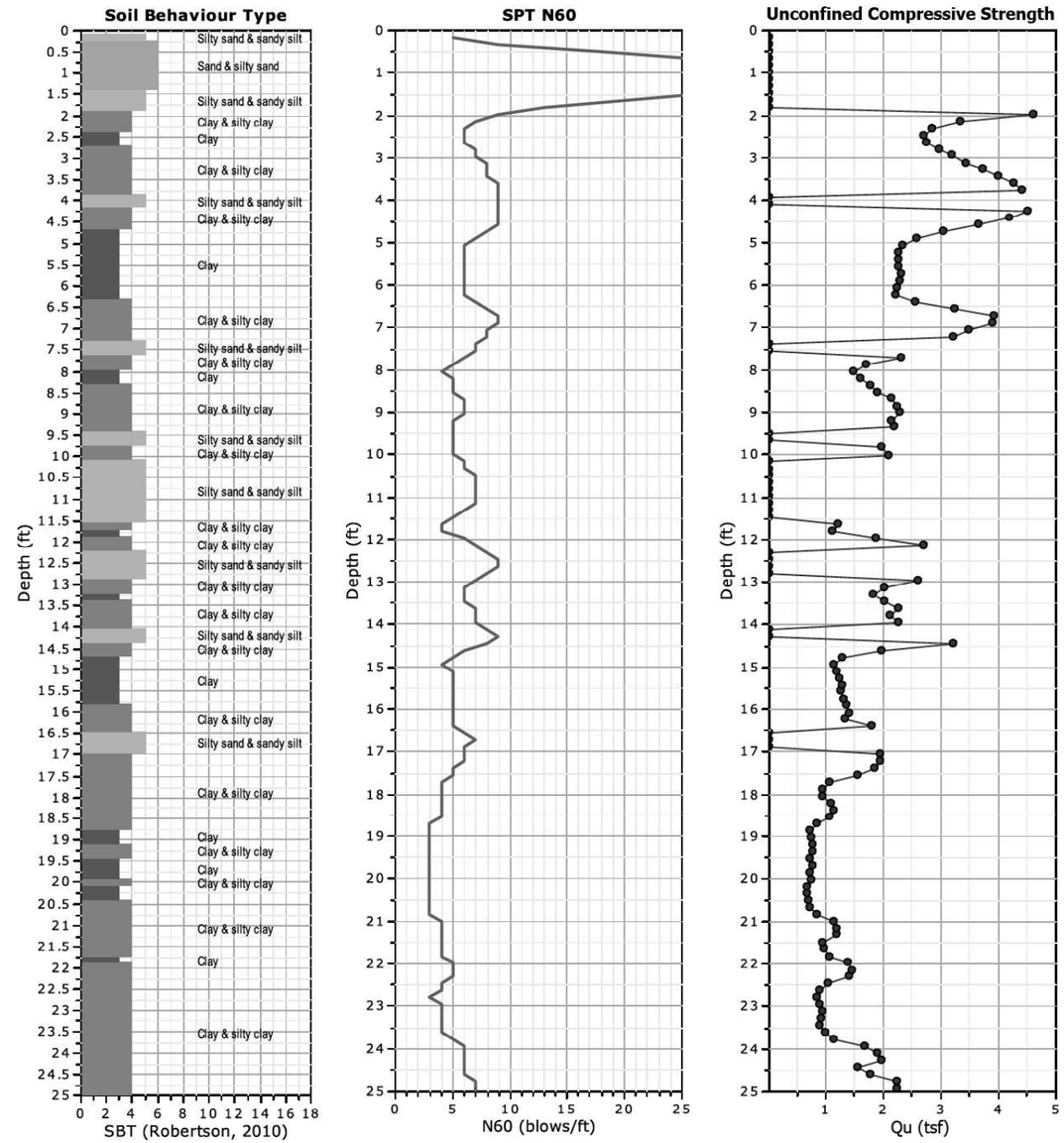


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650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
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Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: NE CORNER
CPT: B-8
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 443.00 ft
Coords: lat 38.740894 lon -90.001649
STA: 19+25 Offset: 61' LT
SEC: 4 TWP: 3N RNG: 8W



FILE NAME: \\lochlocroot\Production\Files\2020\420-0018\CAD\CADD Sheets\D876A46-aht-Traffic Signals.dgn

LOCHMUELLER GROUP
1928 S/A Bradley II, Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	alex.huelskamp	DESIGNED	ESW	REVISED	–
MODEL NAME	TS 11	DRAWN	LEC	REVISED	–
PLOT SCALE	40.0000 ' / in.	CHECKED	BRM	REVISED	–
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: 1"=20' | SHEET 11 OF 13 SHEETS | SOIL BORINGS B-6 & B-8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	140
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

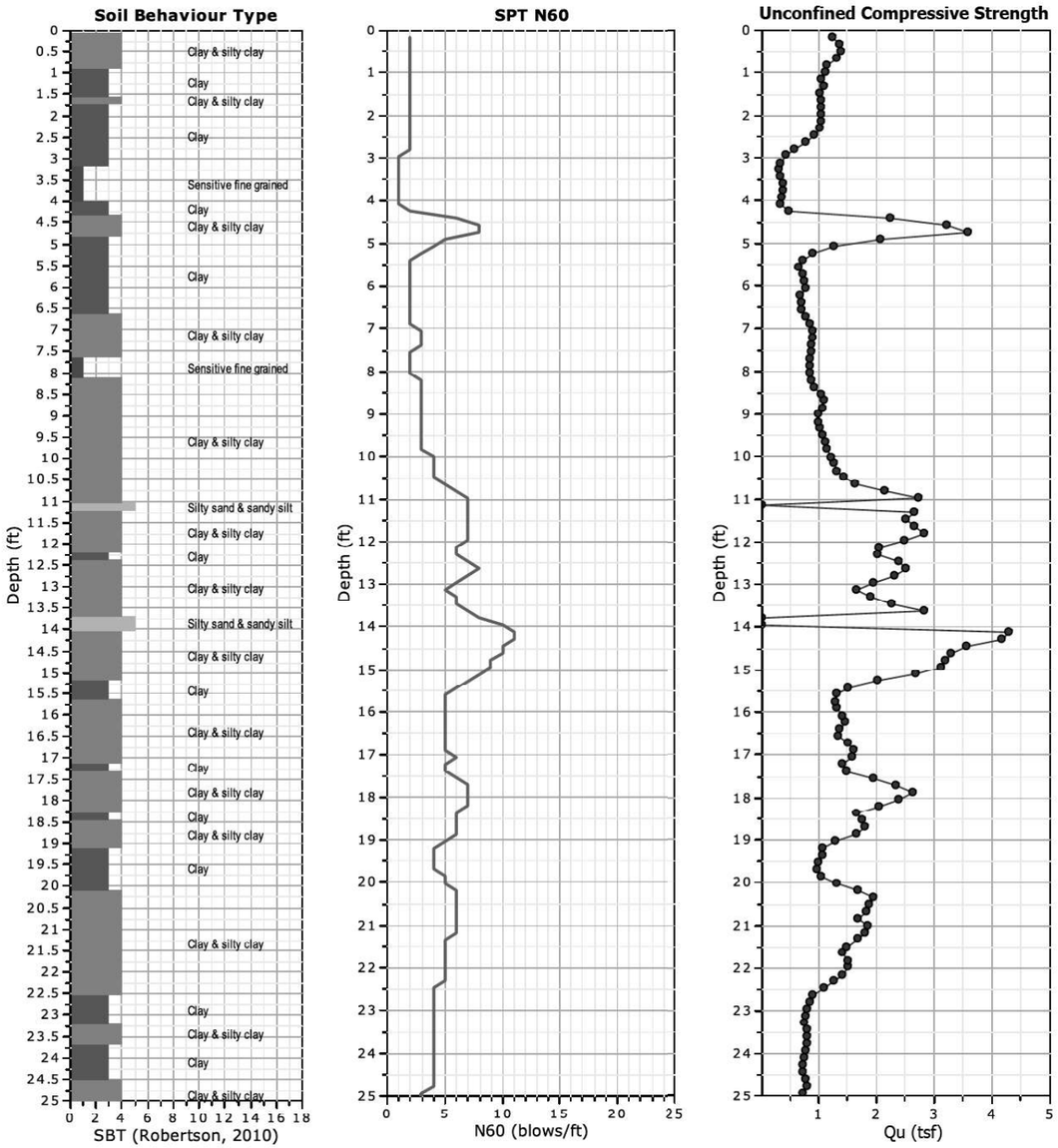
*586/592

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650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: SW CORNER
CPT: B-10
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 443.00 ft
Coords: lat 38.740516 lon -90.001865
STA: 18+53 Offset: 72' RT
SEC: 4 TWP: 3N RNG: 8W

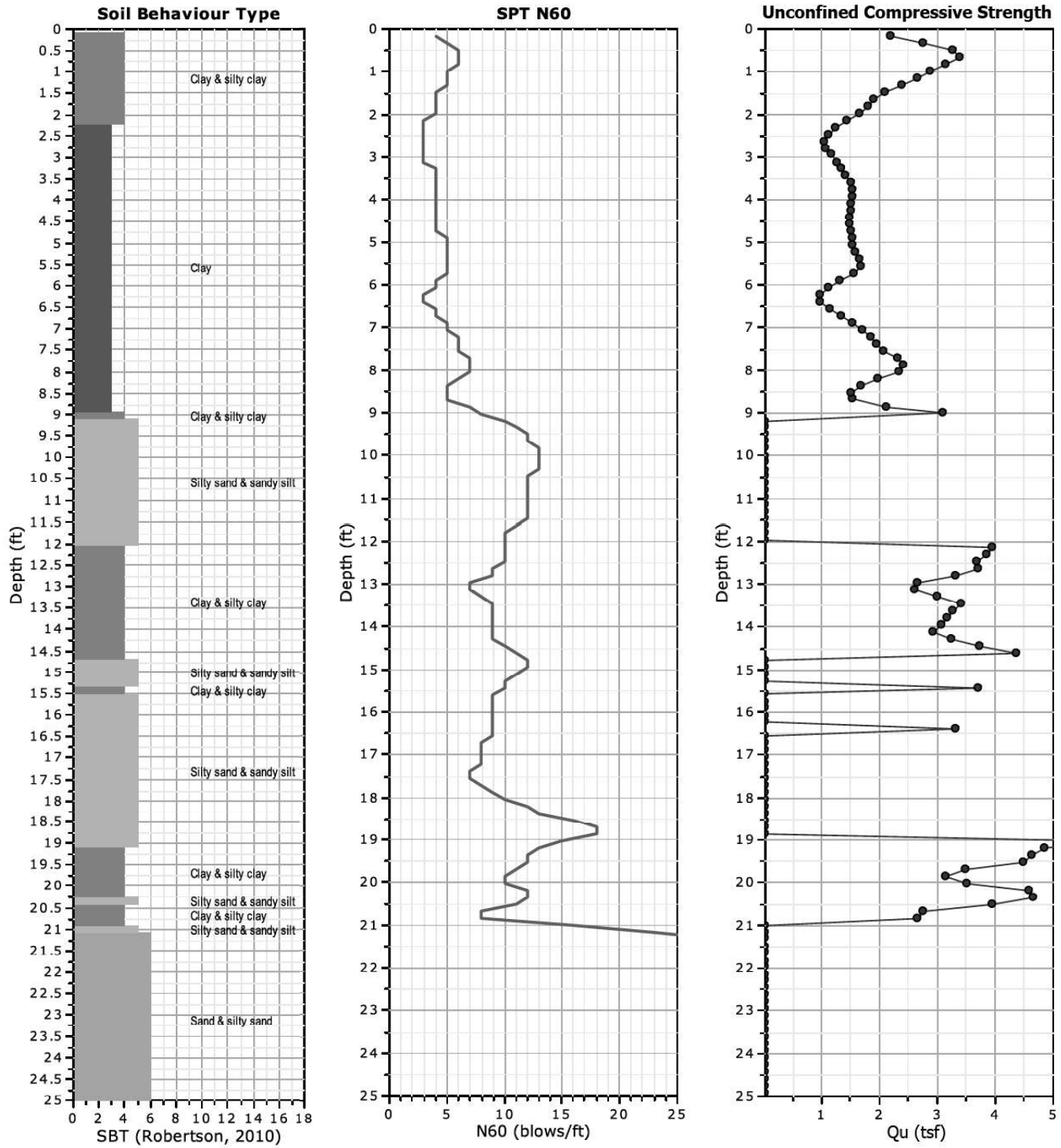


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SCI Engineering, Inc.
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Geotechnical Services
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Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: SE CORNER
CPT: B-11
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 445.00 ft
Coords: lat 38.740578 lon -90.001460
STA: 19+72 Offset: 57' RT
SEC: 4 TWP: 3N RNG: 8W



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LOCHMUELLER GROUP
1928 S.R. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	alex.huelskamp	DESIGNED	ESW	REVISED	-
MODEL NAME	TS 12	DRAWN	LEC	REVISED	-
PLOT SCALE	40.0000 ' / in.	CHECKED	BRM	REVISED	-
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: 1"=20' | SHEET 12 OF 13 SHEETS | SOIL BORINGS B-10 & B-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	141
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

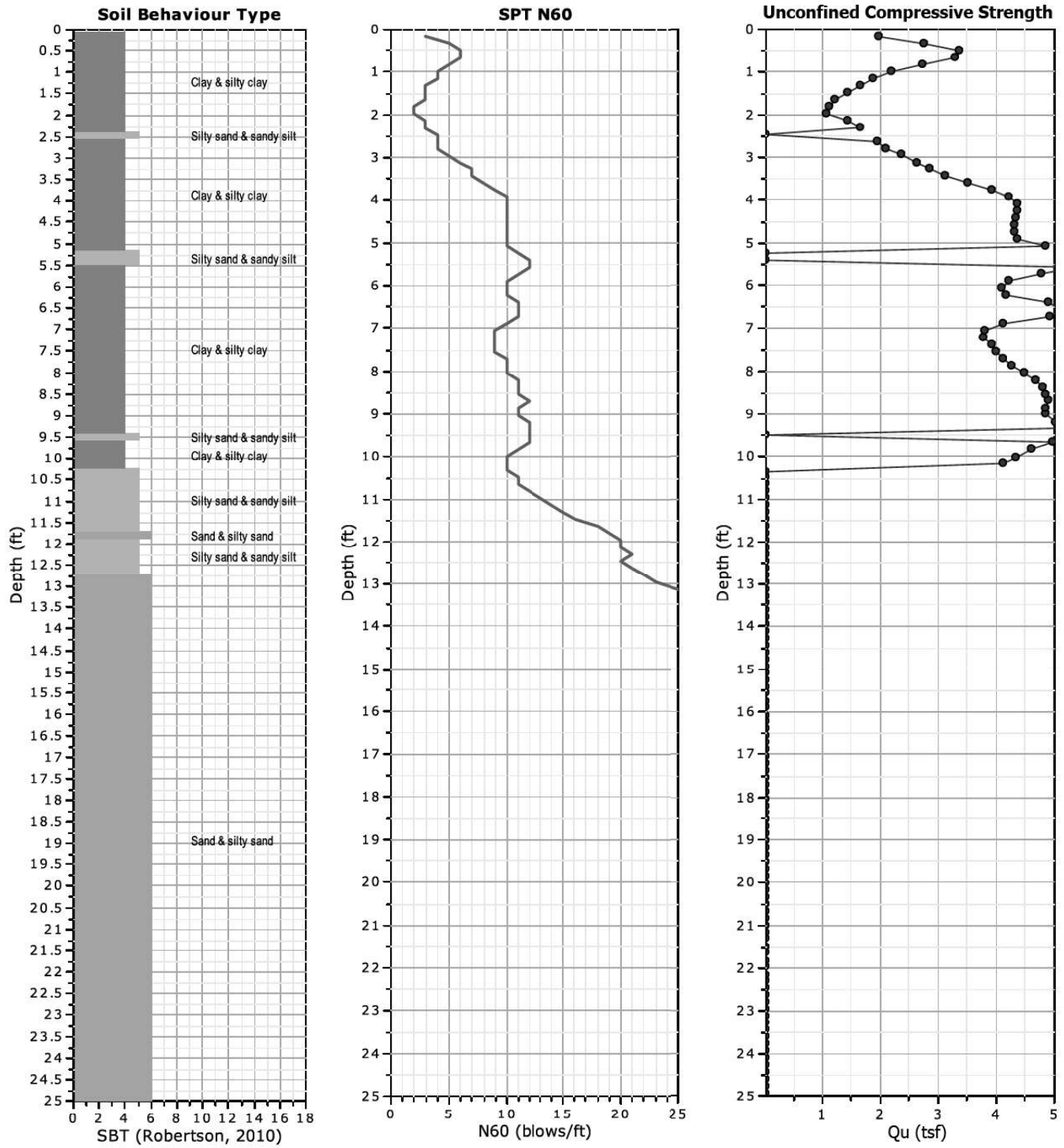
*586/592

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650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

IL 157 @ W. MAIN ST: SW CORNER
CPT: B-22
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 450.00 ft
Coords: lat 38.743075 lon -90.003060
STA: 592+47 Offset: 91' LT
SEC: 4 TWP: 3N RNG: 8W

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

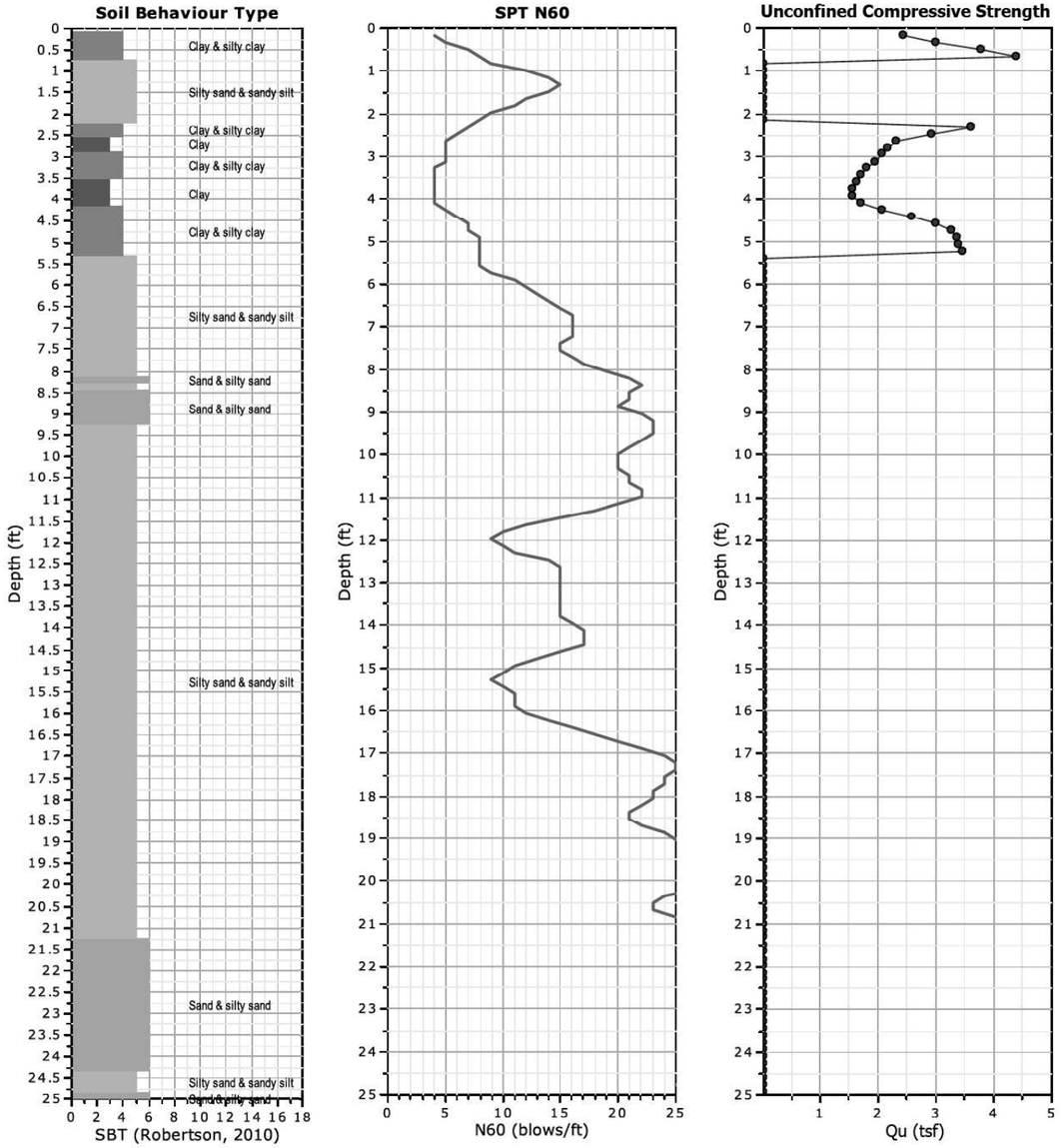


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SCI Engineering, Inc.
650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

IL 157 @ W. MAIN ST: NE CORNER
CPT: B-23
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 453.00 ft
Coords: lat 38.743498 lon -90.002774
STA: 593+72 Offset: 30' RT
SEC: 4 TWP: 3N RNG: 8W

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL



FILE NAME: \\lochlocvoot\Production\Files\2020\420-0018\CAD\CADD Sheets\DB76A46-sht-Traffic Signals.dgn

LOCHMUELLER GROUP
1928 S.N. Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME	alex.huelskamp	DESIGNED	ESW	REVISED	-
MODEL NAME	TS 13	DRAWN	LEC	REVISED	-
PLOT SCALE	40.0000 ' / in.	CHECKED	BRM	REVISED	-
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: 1"=20' | SHEET 13 OF 13 SHEETS | SOIL BORINGS B-22 & B-23

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	142
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

Benchmark: Cut "□", with +, on top of parapet wall at Northwest corner of IL-157 Bridge over Judys Branch (S.N. 060-0087). Elev. 449.226.

Existing Structure: S.N. 060-0087 was originally built in 1933 under Section 117-B to carry F.A.P. Rte. 592 over Judys Branch. A deck replacement was completed in 1982 under Section 117BR-2 to replace the original deck, in addition to also replacing the expansion joints and deck drains. The existing superstructure consists of a 7½" thick composite reinforced concrete deck supported by steel W-shape beams. The substructure consists of reinforced concrete abutments supported by concrete piles and reinforced concrete pier bents, supported by concrete piles. Fixed bearings are located at the abutments and expansion bearings are located at the piers. The existing slopewalls consist of bare earth. The existing structure has a total length of 121'-2⅜" bk. to bk. of abutments and a total width of 47'-6" out to out of deck. The bridge will be closed during construction.

No Salvage

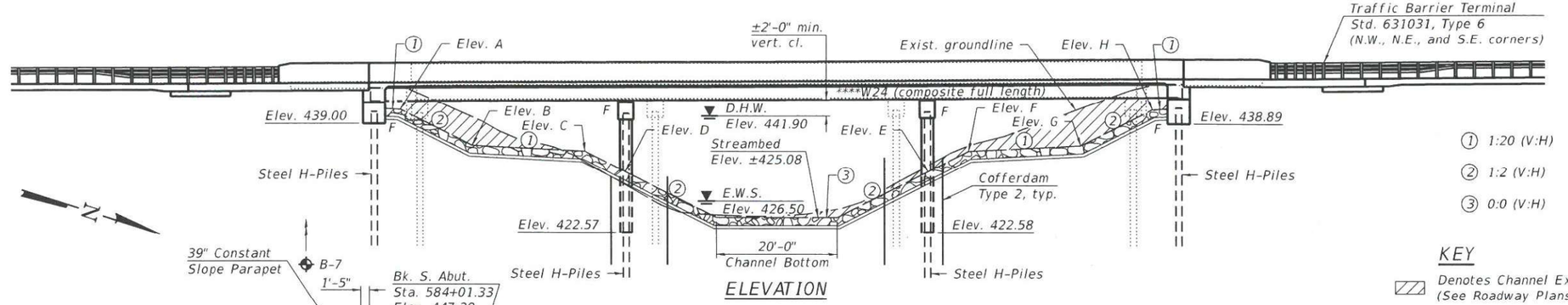
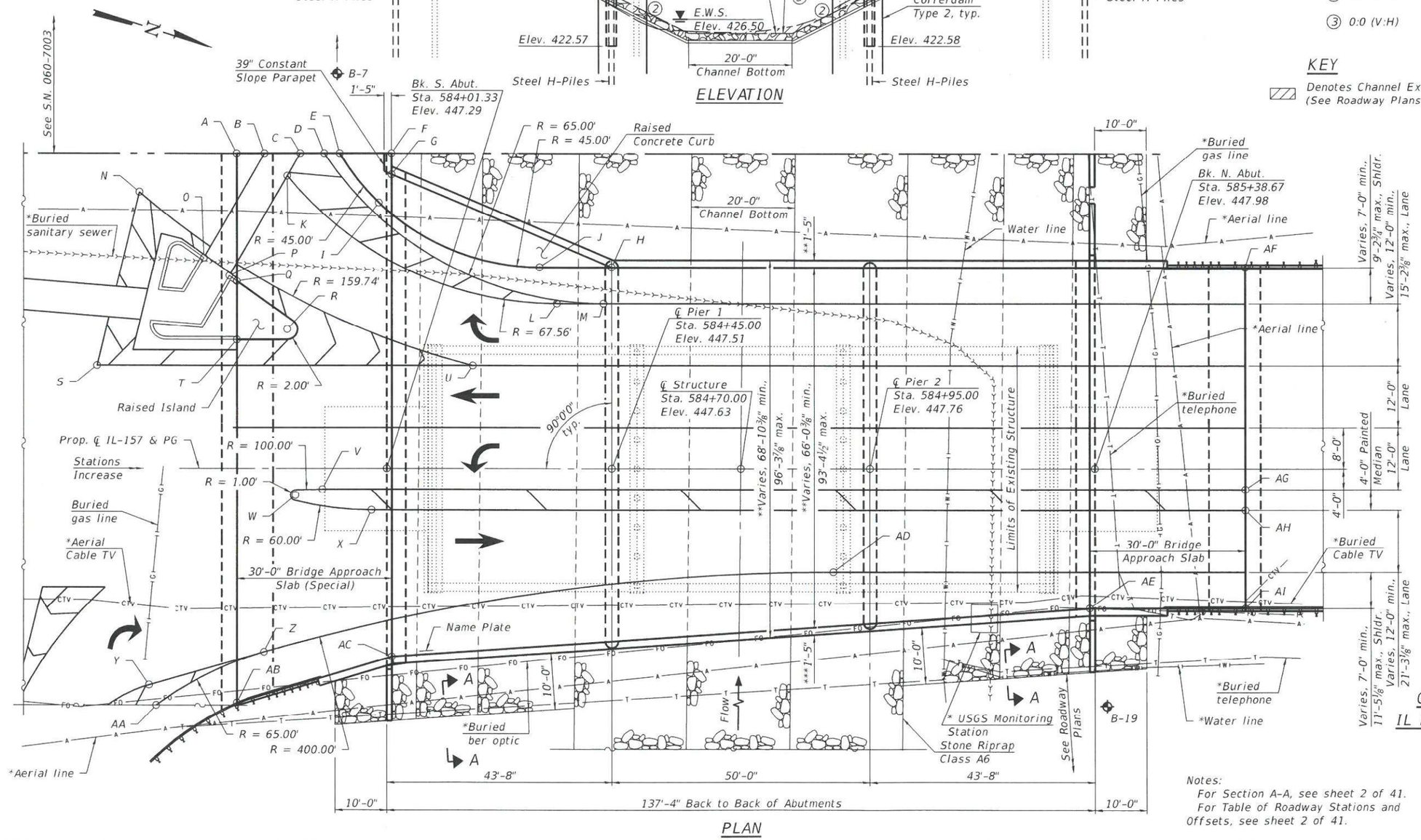


TABLE OF ELEVATIONS

Elev. A	±440.77
Elev. B	±436.67
Elev. C	±436.00
Elev. D	±432.58
Elev. E	±432.58
Elev. F	±436.00
Elev. G	±436.67
Elev. H	±441.42

KEY

Denotes Channel Excavation (See Roadway Plans)



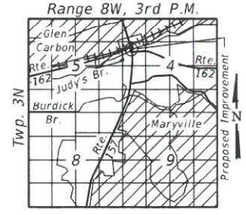
* To be relocated
** Perpendicular to ℄ IL-157
*** Perpendicular to E. Edge of Deck
**** Beams 1c thru 10
W18 x 130 for Beams 1a and 1b

Notes:
For Section A-A, see sheet 2 of 41.
For Table of Roadway Stations and Offsets, see sheet 2 of 41.

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS
ERIC M. LAGEMANN
LICENSE NO. 081-006124
STRUCTURAL ENGINEER

Eric Lagemann 4/17/24
License Expires 11/30/24 Date



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL RTE. 157 OVER JUDYS BRANCH
F.A.P. ROUTE 586
SECTION 51-1R
MADISON COUNTY
STATION 584+70.00
STRUCTURE NO. 060-0229

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - E.M. Lagemann	REVISED - ____	

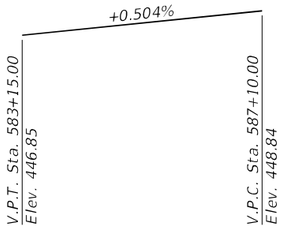
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	143
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

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3/5/2024 8:18:27 AM



PROFILE GRADE

(℄ Rte. 157)

GENERAL NOTES

Except as otherwise specified, fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts ¾ in. diameter, holes $^{15}/_{16}$ in. diameter, unless otherwise noted.

Calculated weight of Structural Steel = 570 lbs. AASHTO M 270 Grade 70W.
Calculated weight of Structural Steel = 230,370 lbs. AASHTO M 270 Grade 50.
Calculated weight of Structural Steel = 20,310 lbs. AASHTO M 270 Grade 36.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

Slipforming of the parapets is not allowed.

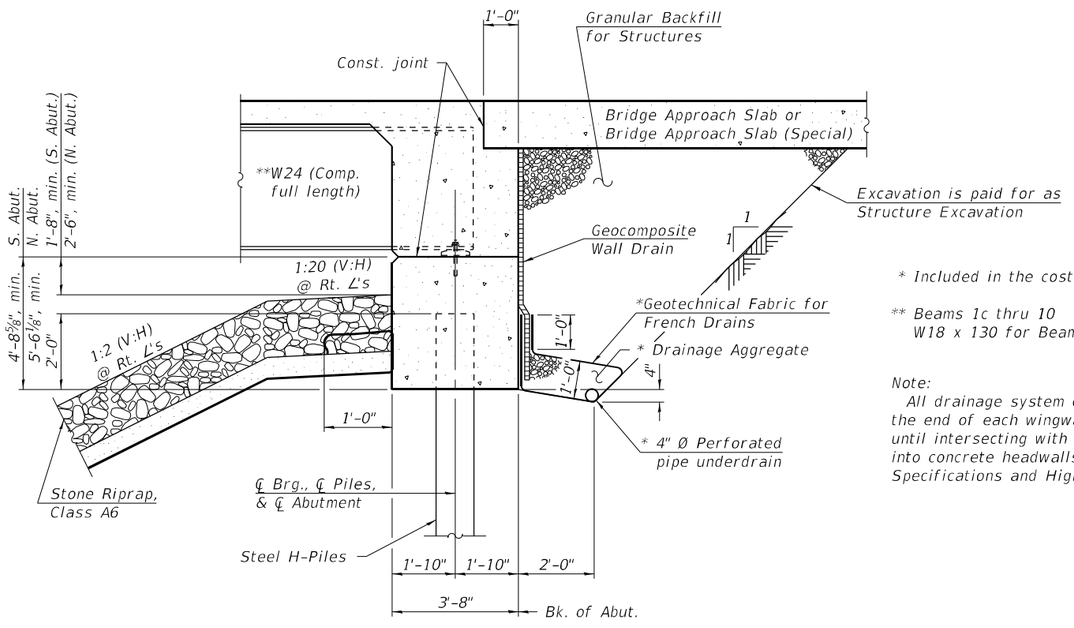
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Granular Backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.

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

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

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be gray, Munsell No 5B 7/1.

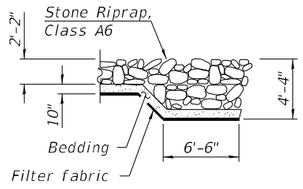


SECTION THRU INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

** Beams 1c thru 10
W18 x 130 for Beams 1a and 1b

Note:
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).



SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A6	Sq. Yd.		1,635	1,635
Filter Fabric	Sq. Yd.		1,688	1,688
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		405	405
Cofferdam Excavation	Cu. Yd.		844	844
Cofferdam (Type 2)(Location-1)	Each		1	1
Cofferdam (Type 2)(Location-2)	Each		1	1
Concrete Structures	Cu. Yd.		533.5	533.5
Concrete Superstructure	Cu. Yd.	373.7		373.7
Bridge Deck Grooving	Sq. Yd.	1,572		1,572
Protective Coat	Sq. Yd.	1,828		1,828
Concrete Superstructure (Approach Slab)	Cu. Yd.	237.5		237.5
Furnishing and Erecting Structural Steel	L. Sum	0.54		0.54
Stud Shear Connectors	Each	8,691		8,691
Reinforcement Bars, Epoxy Coated	Pound	205,690	57,920	263,610
Bar Splicers	Each	11		11
Furnishing Steel Piles HP14X117	Foot		5,397	5,397
Driving Piles	Foot		5,397	5,397
Test Pile Steel HP14X117	Each		2	2
Name Plates	Each			1
Anchor Bolts, 1"	Each	84		84
Granular Backfill For Structures	Cu. Yd.		332	332
Geocomposite Wall Drain	Sq. Yd.		153	153
Pipe Underdrains For Structures, 4"	Foot		202	202

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Cofferdam Details
4. – 7. Top of Slab Elevations
8. Top of South Bridge Approach Slab Elevations
9. Top of North Bridge Approach Slab Elevations
10. – 15. Superstructure Details
16. – 17. South Abutment Diaphragm Details
18. North Abutment Diaphragm Details
19. – 23. South Bridge Approach Slab
24. – 25. North Bridge Approach Slab
26. Framing Plan
27. – 30. Beam Details
31. – 32. South Abutment Details
33. North Abutment Details
34. Pier 1
35. Pier 2
36. Pier Details
37. Steel H-Pile Details
38. Bar Splicer Assembly
39. – 41. Boring Logs

TABLE OF ROADWAY STATIONS AND OFFSETS

Point	Station	Offset
A	583+72.33	61.03' Lt.
B	583+77.70	61.03' Lt.
C	583+84.65	61.03' Lt.
D	583+89.28	61.03' Lt.
E	583+92.29	61.03' Lt.
F	584+02.33	61.03' Lt.
G	584+02.33	56.94' Lt.
H	584+45.00	39.00' Lt.
I	583+99.90	51.44' Lt.
J	584+30.97	39.00' Lt.
K	583+82.12	56.69' Lt.
L	584+34.33	32.00' Lt.
M	584+43.42	32.00' Lt.
N	583+53.44	53.52' Lt.
O	583+65.92	40.83' Lt.
P	583+70.85	37.36' Lt.
Q	583+72.33	36.32' Lt.
R	583+82.07	27.00' Lt.
S	583+45.20	20.00' Lt.
T	583+72.33	25.00' Lt.
U	584+18.02	20.00' Lt.
V	583+88.86	4.00' Rt.
W	583+83.66	5.14' Rt.
X	583+98.38	8.00' Rt.
Y	583+55.28	41.92' Rt.
Z	583+77.55	35.52' Rt.
AA	583+56.66	45.87' Rt.
AB	583+72.33	45.37' Rt.
AC	584+02.33	36.43' Rt.
AD	584+87.90	20.00' Rt.
AE	585+37.67	27.03' Rt.
AF	585+67.67	39.00' Lt.
AG	585+67.67	4.00' Rt.
AH	585+67.67	8.00' Rt.
AI	585+67.67	27.00' Rt.

WATERWAY INFORMATION

Drainage Area = 8.6 sq. mi.

Existing Overtopping Elev. = 445.83 at Sta. 582+50.00
Proposed Overtopping Elev. = 446.42 at Sta. 581+42.36

Flood Event	Freq. Yr.	Discharge, Q C.F.S.	Waterway Opening - Ft² Existing	Waterway Opening - Ft² Proposed	Natural H.W.E. - Ft.	Head - Ft. Existing	Head - Ft. Proposed	Headwater Elevation - Ft. Existing	Headwater Elevation - Ft. Proposed
Design	50	5750	883	1146	441.9	0.5	0.3	442.4	442.2
Base	100	6590	941	1214	442.4	1.5	0.4	443.9	442.8
Scour Design Check	200	7600	987	1287	443.0	1.3	0.6	444.3	443.7
Overtop Existing	N/A	---	---	---	---	---	---	---	---
Overtop Proposed	N/A	---	---	---	---	---	---	---	---
Max. Calc.	500	8920	998	1367	443.7	1.3	1.6	445.0	445.3

10 Year Velocity Through Existing Bridge = 5.43 ft/s
10 Year Velocity Through Proposed Bridge = 4.46 ft/s

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.) S. Abut.	Pier 1	Pier 2	N. Abut.	Item 113
Q100	439.00	414.80	414.80	438.89	5
Q200	439.00	413.93	413.93	438.89	
Design	439.00	414.80	414.80	438.89	
Check	439.00	413.93	413.93	438.89	

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 70,000 psi (M270 Grade 70W)
All structural steel shall be painted.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.23g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.53g
Soil Site Class = D

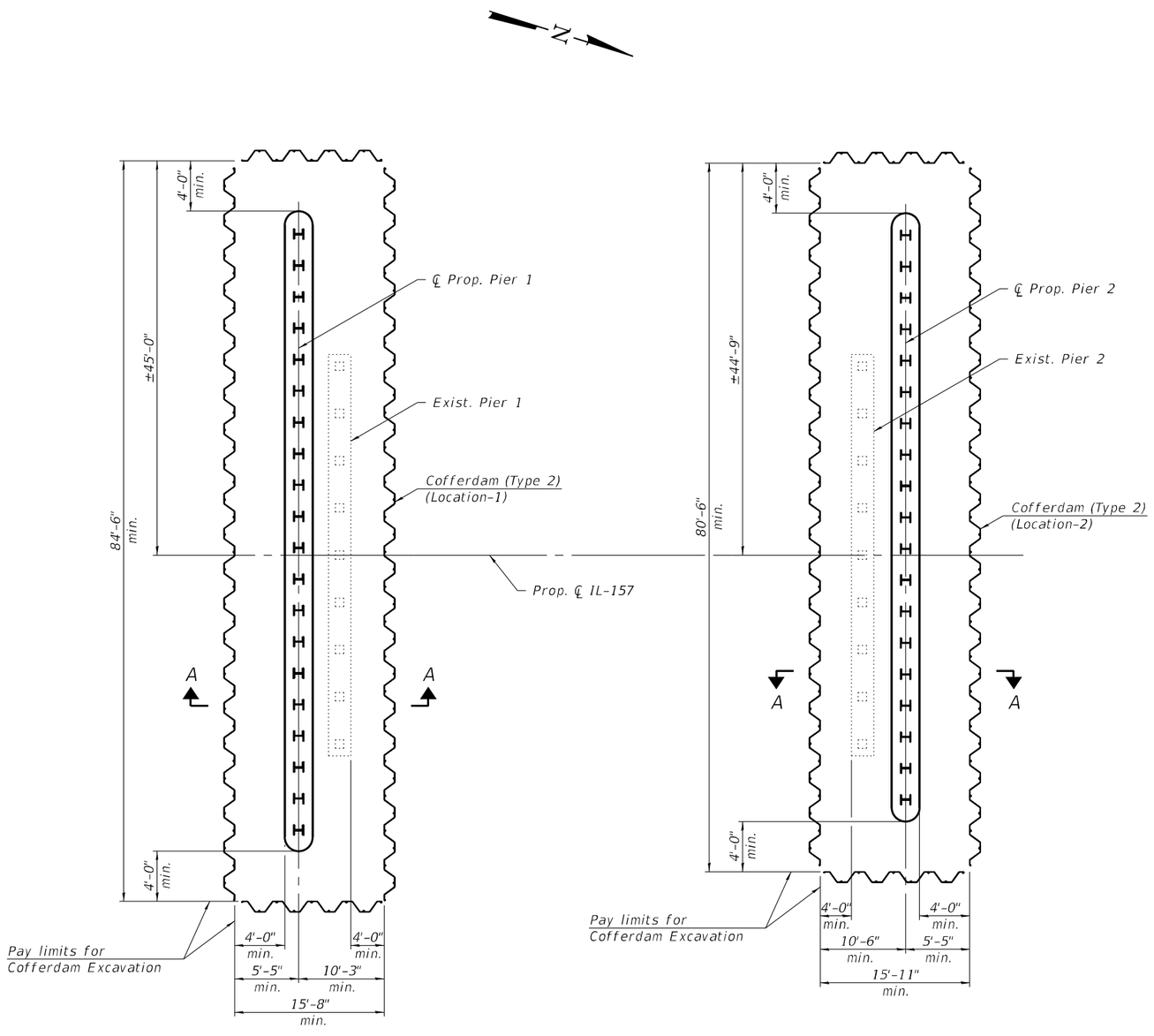
STA. 584+70.00
BUILT 202X BY
STATE OF ILLINOIS
F.A.P. Rt. 586 Sec. 51-1R
LOADING HL-93
STR. NO. 060-0229

NAME PLATE

See Std. 515001

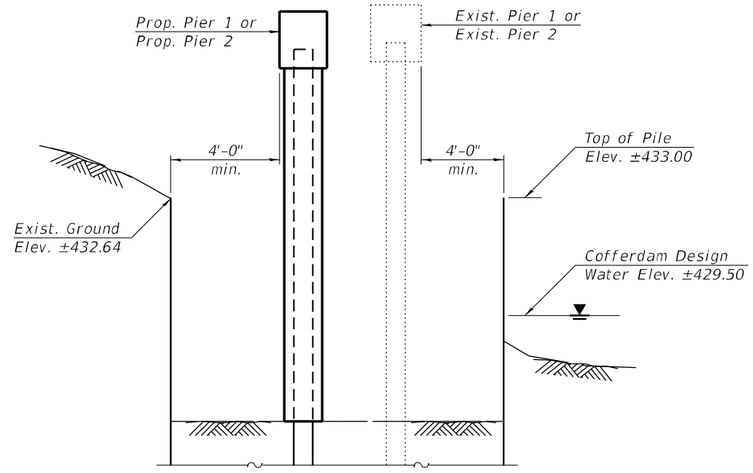
Note:
For Location of Section A-A, see sheet 1 of 41.

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3/5/2024 10:34:53 AM



COFFERDAM PLAN - PIER 1

COFFERDAM PLAN - PIER 2



SECTION A-A

MODEL: Default
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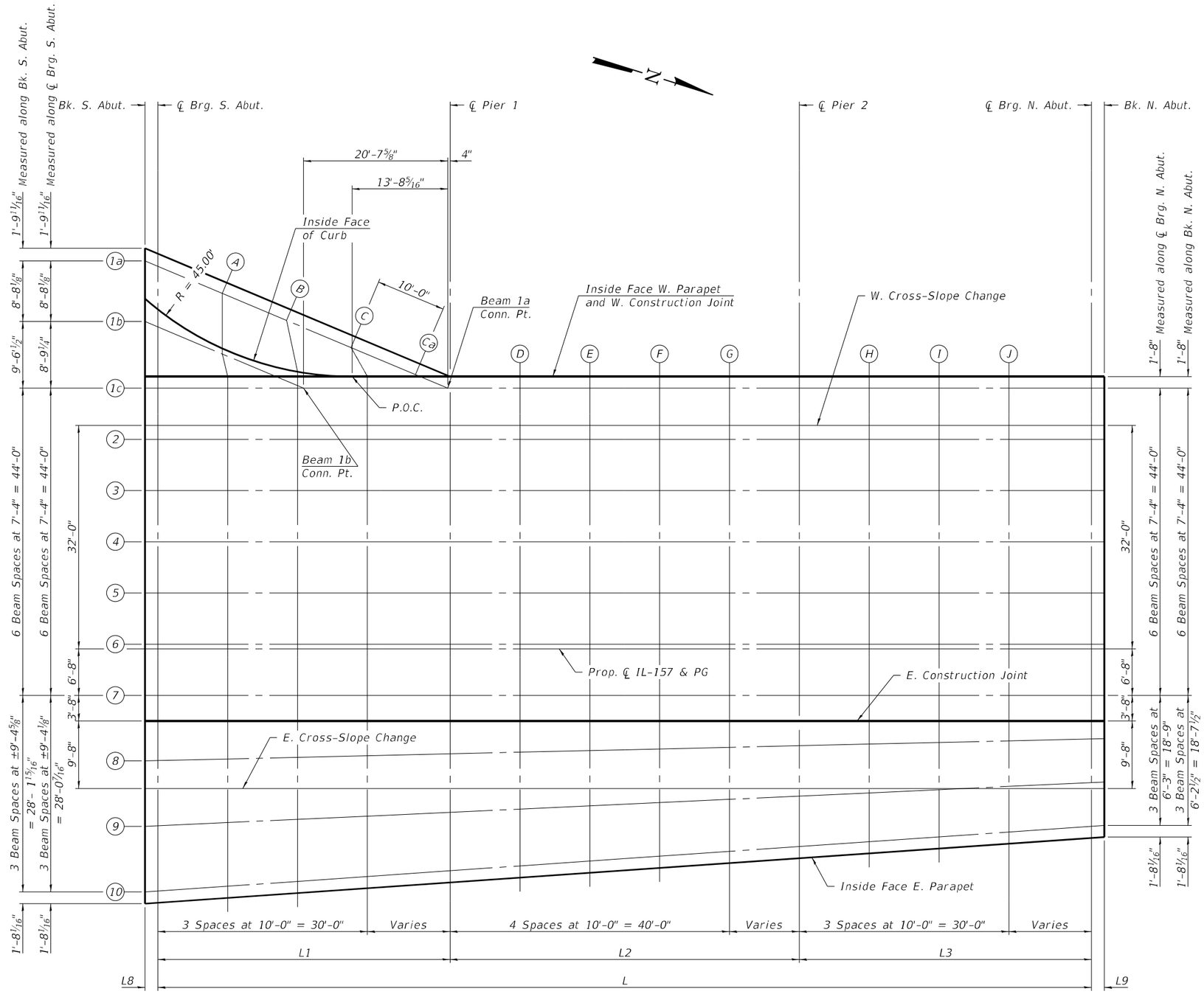
USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - A.H. Morinaga Mansilla	REVISED - ____	
PLOT DATE = ____	CHECKED - T.S. Friederich	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

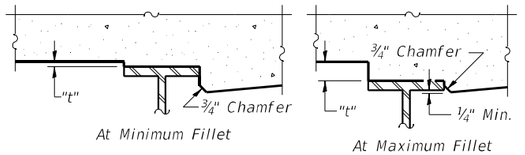
COFFERDAM DETAILS
STRUCTURE NO. 060-0229
SHEET 3 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	51-1R	MADISON	296	145
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

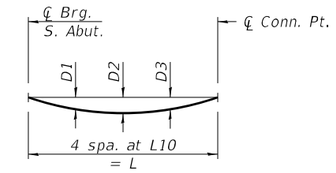


PLAN



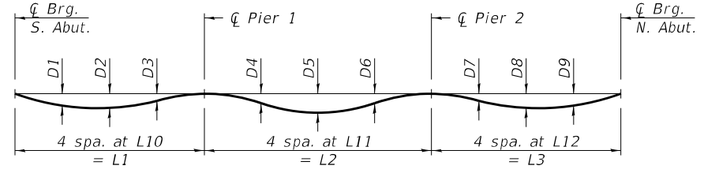
To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 5 thru 7 of 41, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM BEAMS 1a AND 1b

(Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM BEAMS 1c THRU 10

(Includes weight of concrete only.)

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 as shown on sheets 5 thru 7 of 41.

TABLE OF "D" DIMENSIONS

Beam No.	D1	D2	D3	D4	D5	D6	D7	D8	D9
1a	1 1/4"	1 3/4"	1 1/4"						
1b	0"	1/8"	0"						
1c	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	3/8"	1/4"
2	1/4"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
3	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/4"
4 thru 7	1/4"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
8	1/4"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/8"	1/8"
9	1/4"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
10	1/4"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/4"

Notes:
Horizontal dimensions are given along ℄ individual beams.
For Table "L" Dimensions, see sheet 27 of 41.

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3/5/2024 8:26:11 AM

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WWW. FUHRMANN-ENG .COM

USER NAME = ____
PLOT SCALE = ____
PLOT DATE = ____

DESIGNED - E.M. Lagemann
CHECKED - T.S. Friederich
DRAWN - E.M. Lagemann
CHECKED - T.S. Friederich

REVISED - ____
REVISED - ____
REVISED - ____
REVISED - ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I
STRUCTURE NO. 060-0229

SHEET 4 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	146
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

INSIDE FACE W. PARAPET – SPAN 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-57.36	446.94	446.94
℄ Brg. S. Abut.	584+03.16	-56.59	446.94	446.94
A	584+12.38	-52.72	446.92	447.02
B	584+21.60	-48.84	446.91	447.06
C	584+30.82	-44.96	446.90	447.03
Ca	584+40.04	-41.09	446.89	446.95
℄ Pier 1	584+45.00	-39.00	446.89	446.89

BEAM 1a

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-55.56	446.85	446.85
℄ Brg. S. Abut.	584+03.16	-54.78	446.86	446.86
A	584+12.38	-50.91	446.87	446.97
B	584+21.60	-47.03	446.88	447.03
C	584+30.82	-43.15	446.90	447.03
Ca	584+40.04	-39.28	446.91	446.96
Beam 1a Conn. Pt.	584+44.66	-37.33	446.92	446.92

INSIDE FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-50.14	446.60	446.60
℄ Brg. S. Abut.	584+03.16	-48.62	446.62	446.62
A	584+11.64	-43.36	446.66	446.68
B	584+21.08	-40.10	446.72	446.77
P.O.C.	584+30.97	-39.00	446.81	446.83
℄ Pier 1	584+45.00	-39.00	446.89	446.89

BEAM 1b

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-46.88	446.63	446.63
℄ Brg. S. Abut.	584+03.16	-46.11	446.64	446.64
A	584+12.38	-42.23	446.67	446.69
Beam 1b Conn. Pt.	584+24.02	-37.33	446.80	446.82

INSIDE FACE W. PARAPET – SPANS 2 & 3 & WEST CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-39.00	446.71	446.71
℄ Brg. S. Abut.	584+03.16	-39.00	446.72	446.72
A	584+13.16	-39.00	446.73	446.74
B	584+23.16	-39.00	446.76	446.78
C	584+33.16	-39.00	446.83	446.84
℄ Pier 1	584+45.00	-39.00	446.89	446.89
D	584+55.00	-39.00	446.94	446.95
E	584+65.00	-39.00	446.99	447.01
F	584+75.00	-39.00	447.04	447.06
G	584+85.00	-39.00	447.09	447.10
℄ Pier 2	584+95.00	-39.00	447.14	447.14
H	585+05.00	-39.00	447.19	447.20
I	585+15.00	-39.00	447.24	447.26
J	585+25.00	-39.00	447.29	447.31
℄ Brg. N. Abut.	585+36.84	-39.00	447.35	447.35
Bk. N. Abut.	585+38.67	-39.00	447.36	447.36

WEST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-32.00	446.81	446.81
℄ Brg. S. Abut.	584+03.16	-32.00	446.81	446.81
A	584+13.16	-32.00	446.86	446.88
B	584+23.16	-32.00	446.92	446.93
C	584+33.16	-32.00	446.97	446.98
℄ Pier 1	584+45.00	-32.00	447.03	447.03
D	584+55.00	-32.00	447.08	447.08
E	584+65.00	-32.00	447.13	447.14
F	584+75.00	-32.00	447.18	447.19
G	584+85.00	-32.00	447.23	447.23
℄ Pier 2	584+95.00	-32.00	447.28	447.28
H	585+05.00	-32.00	447.33	447.34
I	585+15.00	-32.00	447.38	447.40
J	585+25.00	-32.00	447.43	447.45
℄ Brg. N. Abut.	585+36.84	-32.00	447.49	447.49
Bk. N. Abut.	585+38.67	-32.00	447.50	447.50

BEAM 1c

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-37.33	446.73	446.73
℄ Brg. S. Abut.	584+03.16	-37.33	446.74	446.74
A	584+13.16	-37.33	446.76	446.77
B	584+23.16	-37.33	446.80	446.82
Beam 1b Conn. Pt.	584+24.02	-37.33	446.80	446.82
C	584+33.16	-37.33	446.86	446.87
Beam 1a Conn. Pt.	584+44.66	-37.33	446.92	446.92
℄ Pier 1	584+45.00	-37.33	446.92	446.92
D	584+55.00	-37.33	446.97	446.98
E	584+65.00	-37.33	447.02	447.04
F	584+75.00	-37.33	447.07	447.09
G	584+85.00	-37.33	447.12	447.13
℄ Pier 2	584+95.00	-37.33	447.17	447.17
H	585+05.00	-37.33	447.22	447.23
I	585+15.00	-37.33	447.27	447.30
J	585+25.00	-37.33	447.32	447.35
℄ Brg. N. Abut.	585+36.84	-37.33	447.38	447.38
Bk. N. Abut.	585+38.67	-37.33	447.39	447.39

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-30.00	446.84	446.84
℄ Brg. S. Abut.	584+03.16	-30.00	446.84	446.84
A	584+13.16	-30.00	446.89	446.91
B	584+23.16	-30.00	446.95	446.96
C	584+33.16	-30.00	447.00	447.01
℄ Pier 1	584+45.00	-30.00	447.06	447.06
D	584+55.00	-30.00	447.11	447.11
E	584+65.00	-30.00	447.16	447.17
F	584+75.00	-30.00	447.21	447.22
G	584+85.00	-30.00	447.26	447.26
℄ Pier 2	584+95.00	-30.00	447.31	447.31
H	585+05.00	-30.00	447.36	447.37
I	585+15.00	-30.00	447.41	447.43
J	585+25.00	-30.00	447.46	447.48
℄ Brg. N. Abut.	585+36.84	-30.00	447.52	447.52
Bk. N. Abut.	585+38.67	-30.00	447.53	447.53

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-22.67	446.95	446.95
℄ Brg. S. Abut.	584+03.16	-22.67	446.95	446.95
A	584+13.16	-22.67	447.00	447.02
B	584+23.16	-22.67	447.06	447.07
C	584+33.16	-22.67	447.11	447.12
℄ Pier 1	584+45.00	-22.67	447.17	447.17
D	584+55.00	-22.67	447.22	447.22
E	584+65.00	-22.67	447.27	447.29
F	584+75.00	-22.67	447.32	447.34
G	584+85.00	-22.67	447.37	447.38
℄ Pier 2	584+95.00	-22.67	447.42	447.42
H	585+05.00	-22.67	447.47	447.48
I	585+15.00	-22.67	447.52	447.54
J	585+25.00	-22.67	447.57	447.59
℄ Brg. N. Abut.	585+36.84	-22.67	447.63	447.63
Bk. N. Abut.	585+38.67	-22.67	447.64	447.64

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-15.33	447.06	447.06
℄ Brg. S. Abut.	584+03.16	-15.33	447.06	447.06
A	584+13.16	-15.33	447.11	447.13
B	584+23.16	-15.33	447.17	447.18
C	584+33.16	-15.33	447.22	447.23
℄ Pier 1	584+45.00	-15.33	447.28	447.28
D	584+55.00	-15.33	447.33	447.33
E	584+65.00	-15.33	447.38	447.39
F	584+75.00	-15.33	447.43	447.44
G	584+85.00	-15.33	447.48	447.48
℄ Pier 2	584+95.00	-15.33	447.53	447.53
H	585+05.00	-15.33	447.58	447.59
I	585+15.00	-15.33	447.63	447.65
J	585+25.00	-15.33	447.68	447.70
℄ Brg. N. Abut.	585+36.84	-15.33	447.74	447.74
Bk. N. Abut.	585+38.67	-15.33	447.75	447.75

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-8.00	447.17	447.17
℄ Brg. S. Abut.	584+03.16	-8.00	447.17	447.17
A	584+13.16	-8.00	447.22	447.24
B	584+23.16	-8.00	447.28	447.29
C	584+33.16	-8.00	447.33	447.34
℄ Pier 1	584+45.00	-8.00	447.39	447.39
D	584+55.00	-8.00	447.44	447.44
E	584+65.00	-8.00	447.49	447.50
F	584+75.00	-8.00	447.54	447.55
G	584+85.00	-8.00	447.59	447.59
℄ Pier 2	584+95.00	-8.00	447.64	447.64
H	585+05.00	-8.00	447.69	447.70
I	585+15.00	-8.00	447.74	447.76
J	585+25.00	-8.00	447.79	447.81
℄ Brg. N. Abut.	585+36.84	-8.00	447.85	447.85
Bk. N. Abut.	585+38.67	-8.00	447.86	447.86

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-0.67	447.28	447.28
℄ Brg. S. Abut.	584+03.16	-0.67	447.28	447.28
A	584+13.16	-0.67	447.33	447.35
B	584+23.16	-0.67	447.39	447.40
C	584+33.16	-0.67	447.44	447.45
℄ Pier 1	584+45.00	-0.67	447.50	447.50
D	584+55.00	-0.67	447.55	447.55
E	584+65.00	-0.67	447.60	447.61
F	584+75.00	-0.67	447.65	447.66
G	584+85.00	-0.67	447.70	447.70
℄ Pier 2	584+95.00	-0.67	447.75	447.75
H	585+05.00	-0.67	447.80	447.81
I	585+15.00	-0.67	447.85	447.87
J	585+25.00	-0.67	447.90	447.92
℄ Brg. N. Abut.	585+36.84	-0.67	447.96	447.96
Bk. N. Abut.	585+38.67	-0.67	447.97	447.97

PROP. ℄ IL-157 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	0.00	447.29	447.29
℄ Brg. S. Abut.	584+03.16	0.00	447.29	447.29
A	584+13.16	0.00	447.34	447.36
B	584+23.16	0.00	447.40	447.41
C	584+33.16	0.00	447.45	447.46
℄ Pier 1	584+45.00	0.00	447.51	447.51
D	584+55.00	0.00	447.56	447.56
E	584+65.00	0.00	447.61	447.62
F	584+75.00	0.00	447.66	447.67
G	584+85.00	0.00	447.71	447.71
℄ Pier 2	584+95.00	0.00	447.76	447.76
H	585+05.00	0.00	447.81	447.82
I	585+15.00	0.00	447.86	447.88
J	585+25.00	0.00	447.91	447.93
℄ Brg. N. Abut.	585+36.84	0.00	447.97	447.97
Bk. N. Abut.	585+38.67	0.00	447.98	447.98

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	6.67	447.19	447.19
℄ Brg. S. Abut.	584+03.16	6.67	447.19	447.19
A	584+13.16	6.67	447.24	447.26
B	584+23.16	6.67	447.30	447.31
C	584+33.16	6.67	447.35	447.36
℄ Pier 1	584+45.00	6.67	447.41	447.41
D	584+55.00	6.67	447.46	447.46
E	584+65.00	6.67	447.51	447.52
F	584+75.00	6.67	447.56	447.57
G	584+85.00	6.67	447.61	447.61
℄ Pier 2	584+95.00	6.67	447.66	447.66
H	585+05.00	6.67	447.71	447.72
I	585+15.00	6.67	447.76	447.78
J	585+25.00	6.67	447.81	447.83
℄ Brg. N. Abut.	585+36.84	6.67	447.87	447.87
Bk. N. Abut.	585+38.67	6.67	447.88	447.88

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EAST CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	10.33	447.13	447.13
℄ Brg. S. Abut.	584+03.16	10.33	447.14	447.14
A	584+13.16	10.33	447.19	447.21
B	584+23.16	10.33	447.24	447.26
C	584+33.16	10.33	447.29	447.30
℄ Pier 1	584+45.00	10.33	447.35	447.35
D	584+55.00	10.33	447.40	447.41
E	584+65.00	10.33	447.45	447.47
F	584+75.00	10.33	447.50	447.52
G	584+85.00	10.33	447.55	447.56
℄ Pier 2	584+95.00	10.33	447.60	447.60
H	585+05.00	10.33	447.65	447.66
I	585+15.00	10.33	447.70	447.72
J	585+25.00	10.33	447.75	447.77
℄ Brg. N. Abut.	585+36.84	10.33	447.81	447.81
Bk. N. Abut.	585+38.67	10.33	447.82	447.82

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	16.05	447.04	447.04
℄ Brg. S. Abut.	584+03.16	16.01	447.05	447.05
A	584+13.16	15.78	447.11	447.13
B	584+23.16	15.55	447.16	447.19
C	584+33.16	15.32	447.22	447.23
℄ Pier 1	584+45.00	15.04	447.28	447.28
D	584+55.00	14.81	447.33	447.34
E	584+64.99	14.58	447.39	447.40
F	584+74.99	14.35	447.44	447.46
G	584+84.99	14.12	447.49	447.50
℄ Pier 2	584+95.00	13.89	447.55	447.55
H	585+05.00	13.65	447.60	447.61
I	585+14.99	13.42	447.66	447.67
J	585+24.99	13.19	447.71	447.72
℄ Brg. N. Abut.	585+36.84	12.92	447.77	447.77
Bk. N. Abut.	585+38.67	12.88	447.78	447.78

EAST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	20.00	446.99	446.99
℄ Brg. S. Abut.	584+03.16	20.00	446.99	446.99
A	584+13.16	20.00	447.04	447.06
B	584+23.16	20.00	447.10	447.12
C	584+33.16	20.00	447.15	447.16
℄ Pier 1	584+45.00	20.00	447.21	447.21
D	584+55.00	20.00	447.26	447.26
E	584+65.00	20.00	447.31	447.32
F	584+75.00	20.00	447.36	447.37
G	584+85.00	20.00	447.41	447.42
℄ Pier 2	584+95.00	20.00	447.46	447.46
H	585+05.00	20.00	447.51	447.52
I	585+15.00	20.00	447.56	447.57
J	585+25.00	20.00	447.61	447.62
℄ Brg. N. Abut.	585+36.84	20.00	447.67	447.67
Bk. N. Abut.	585+38.67	20.00	447.68	447.68

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	25.44	446.88	446.88
℄ Brg. S. Abut.	584+03.16	25.35	446.89	446.89
A	584+13.15	24.89	446.95	446.97
B	584+23.14	24.43	447.01	447.03
C	584+33.13	23.97	447.07	447.08
℄ Pier 1	584+45.00	23.42	447.14	447.14
D	584+54.99	22.96	447.20	447.20
E	584+64.98	22.49	447.26	447.27
F	584+74.97	22.03	447.32	447.33
G	584+84.96	21.57	447.38	447.38
℄ Pier 2	584+95.00	21.10	447.44	447.44
H	585+04.99	20.64	447.49	447.50
I	585+14.98	20.18	447.55	447.57
J	585+24.97	19.72	447.61	447.63
℄ Brg. N. Abut.	585+36.84	19.17	447.68	447.68
Bk. N. Abut.	585+38.67	19.08	447.69	447.69

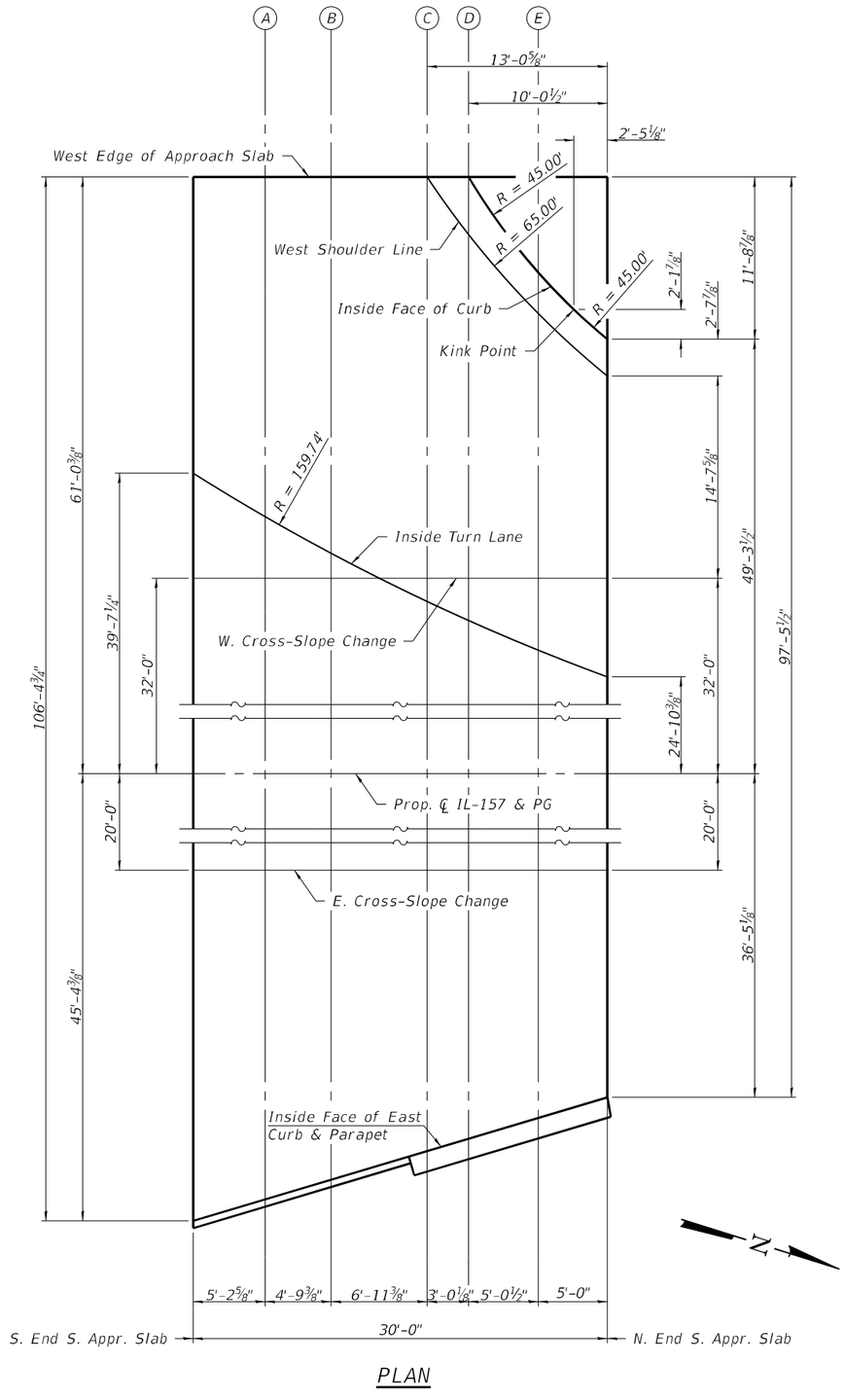
BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	34.83	446.69	446.69
℄ Brg. S. Abut.	584+03.16	34.70	446.70	446.70
A	584+13.14	34.01	446.76	446.78
B	584+23.12	33.32	446.83	446.85
C	584+33.09	32.62	446.89	446.91
℄ Pier 1	584+45.00	31.80	446.97	446.97
D	584+54.98	31.10	447.03	447.04
E	584+64.95	30.41	447.10	447.12
F	584+74.93	29.72	447.16	447.18
G	584+84.90	29.02	447.23	447.24
℄ Pier 2	584+95.00	28.32	447.29	447.29
H	585+04.98	27.63	447.35	447.36
I	585+14.95	26.94	447.42	447.44
J	585+24.93	26.24	447.48	447.50
℄ Brg. N. Abut.	585+36.84	25.42	447.56	447.56
Bk. N. Abut.	585+38.67	25.29	447.57	447.57

INSIDE FACE EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	36.73	446.65	446.65
℄ Brg. S. Abut.	584+03.16	36.37	446.67	446.67
A	584+13.14	35.68	446.73	446.75
B	584+23.12	34.99	446.80	446.82
C	584+33.09	34.29	446.86	446.87
℄ Pier 1	584+45.00	33.47	446.94	446.94
D	584+54.98	32.77	447.00	447.01
E	584+64.95	32.08	447.06	447.08
F	584+74.93	31.39	447.13	447.15
G	584+84.90	30.69	447.19	447.20
℄ Pier 2	584+95.00	29.99	447.26	447.26
H	585+04.98	29.30	447.32	447.33
I	585+14.95	28.61	447.39	447.41
J	585+24.93	27.91	447.45	447.47
℄ Brg. N. Abut.	585+36.84	27.09	447.53	447.53
Bk. N. Abut.	585+38.67	27.03	447.54	447.54

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PLAN

WEST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	-61.03	446.53
A	583+77.55	-61.03	446.55
B	583+82.33	-61.03	446.57
C	583+89.28	-61.03	446.59
D	583+92.29	-61.03	446.55
E	583+97.33	-61.03	446.85
N. End S. Appr. Slab	584+02.33	-61.03	447.14

INSIDE FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
D	583+92.29	-61.03	446.55
E	583+97.33	-54.12	446.57
N. End S. Appr. Slab	584+02.33	-49.29	446.61

WEST SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
C	583+89.28	-61.03	446.59
D	583+92.29	-56.87	446.60
E	583+97.33	-51.17	446.61
N. End S. Appr. Slab	584+02.33	-46.63	446.63

INSIDE TURN LANE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	-39.60	446.59
A	583+77.55	-36.46	446.66
B	583+82.33	-33.81	446.70
C	583+89.28	-30.32	446.77
D	583+92.29	-28.94	446.81
E	583+97.33	-26.79	446.86
N. End S. Appr. Slab	584+02.33	-24.86	446.92

WEST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	-32.00	446.66
A	583+77.55	-32.00	446.69
B	583+82.33	-32.00	446.71
C	583+89.28	-32.00	446.74
D	583+92.29	-32.00	446.76
E	583+97.33	-32.00	446.78
N. End S. Appr. Slab	584+02.33	-32.00	446.81

PROPOSED ℄ IL-157 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	0.00	447.14
A	583+77.55	0.00	447.17
B	583+82.33	0.00	447.19
C	583+89.28	0.00	447.22
D	583+92.29	0.00	447.24
E	583+97.33	0.00	447.26
N. End S. Appr. Slab	584+02.33	0.00	447.29

EAST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	20.00	446.84
A	583+77.55	20.00	446.87
B	583+82.33	20.00	446.89
C	583+89.28	20.00	446.92
D	583+92.29	20.00	446.94
E	583+97.33	20.00	446.96
N. End S. Appr. Slab	584+02.33	20.00	446.99

INSIDE FACE OF EAST CURB & PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	45.37	446.33
A	583+77.55	43.81	446.39
B	583+82.33	42.39	446.44
C	583+89.28	40.32	446.52
D	583+92.29	39.42	446.55
E	583+97.33	37.92	446.61
N. End S. Appr. Slab	584+02.33	36.43	446.66

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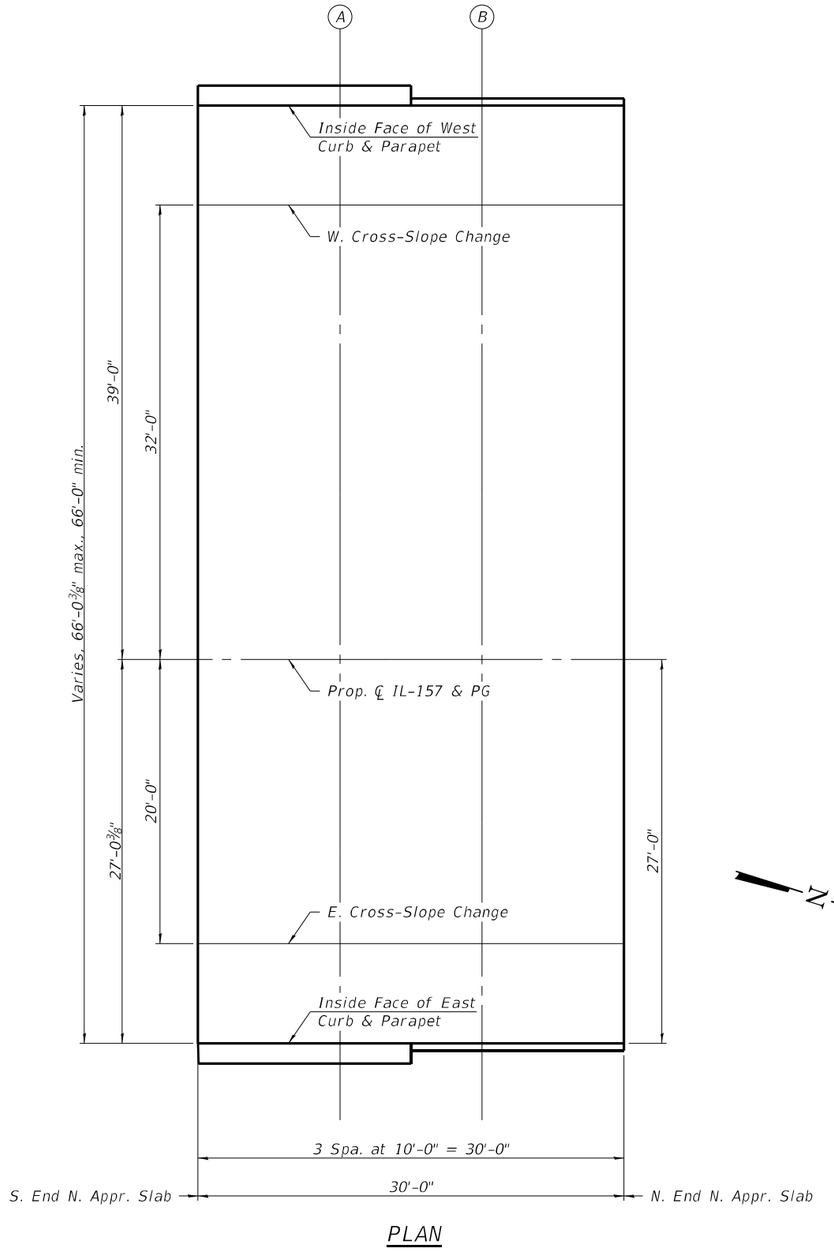
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH BRIDGE APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0229
SHEET 8 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	150
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



PLAN

INSIDE FACE OF WEST CURB & PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	-39.00	447.35
A	585+47.67	-39.00	447.40
B	585+57.67	-39.00	447.45
N. End N. Appr. Slab	585+67.67	-39.00	447.50

WEST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	-32.00	447.49
A	585+47.67	-32.00	447.54
B	585+57.67	-32.00	447.59
N. End N. Appr. Slab	585+67.67	-32.00	447.64

PROPOSED ℄ IL-157 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	0.00	447.97
A	585+47.67	0.00	448.02
B	585+57.67	0.00	448.07
N. End N. Appr. Slab	585+67.67	0.00	448.12

EAST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	20.00	447.67
A	585+47.67	20.00	447.72
B	585+57.67	20.00	447.77
N. End N. Appr. Slab	585+67.67	20.00	447.82

INSIDE FACE OF EAST CURB & PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	27.03	447.53
A	585+47.67	27.02	447.58
B	585+57.67	27.01	447.63
N. End N. Appr. Slab	585+67.67	27.00	447.68

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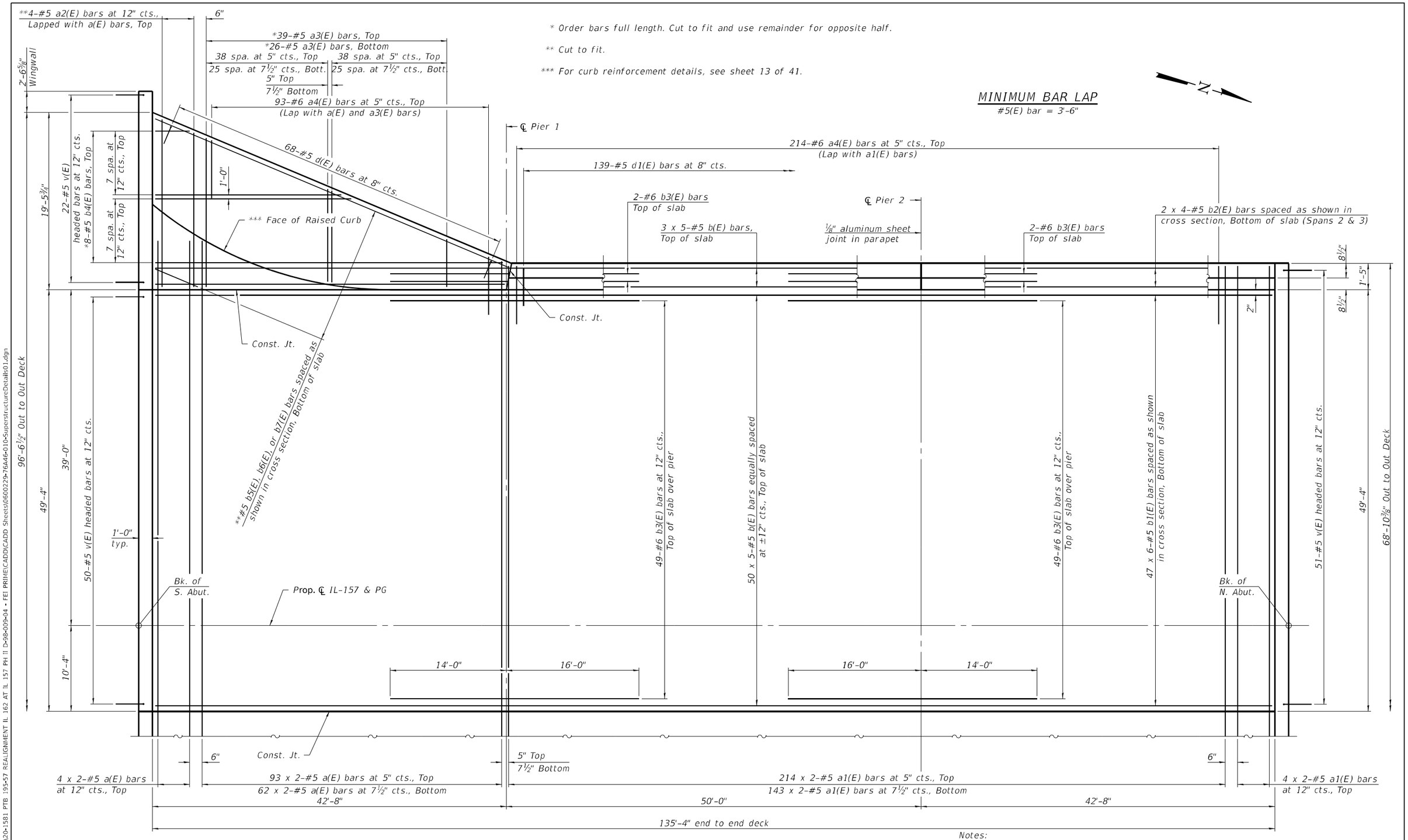
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PLOT DATE = ____	CHECKED - A.H. Morinaga-Mansilla	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH BRIDGE APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0229
SHEET 9 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	151
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



* Order bars full length. Cut to fit and use remainder for opposite half.

** Cut to fit.

*** For curb reinforcement details, see sheet 13 of 41.

MINIMUM BAR LAP

#5(E) bar = 3'-6"

PART PLAN

Notes:
For east portion of deck plan, see sheet 11 of 41.
For Cross Sections, see sheet 12 of 41.
For superstructure details and Bill of Material, see sheets 13 thru 15 of 41.
Bars indicated thus 50 x 5-#5 etc. indicates 50 lines of bars with 5 lengths per line.

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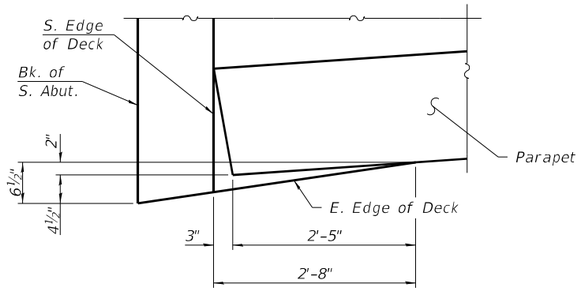
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PLOT DATE = ____	CHECKED - A.H. Morinaga Mansilla	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS I
STRUCTURE NO. 060-0229
SHEET 10 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	152
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

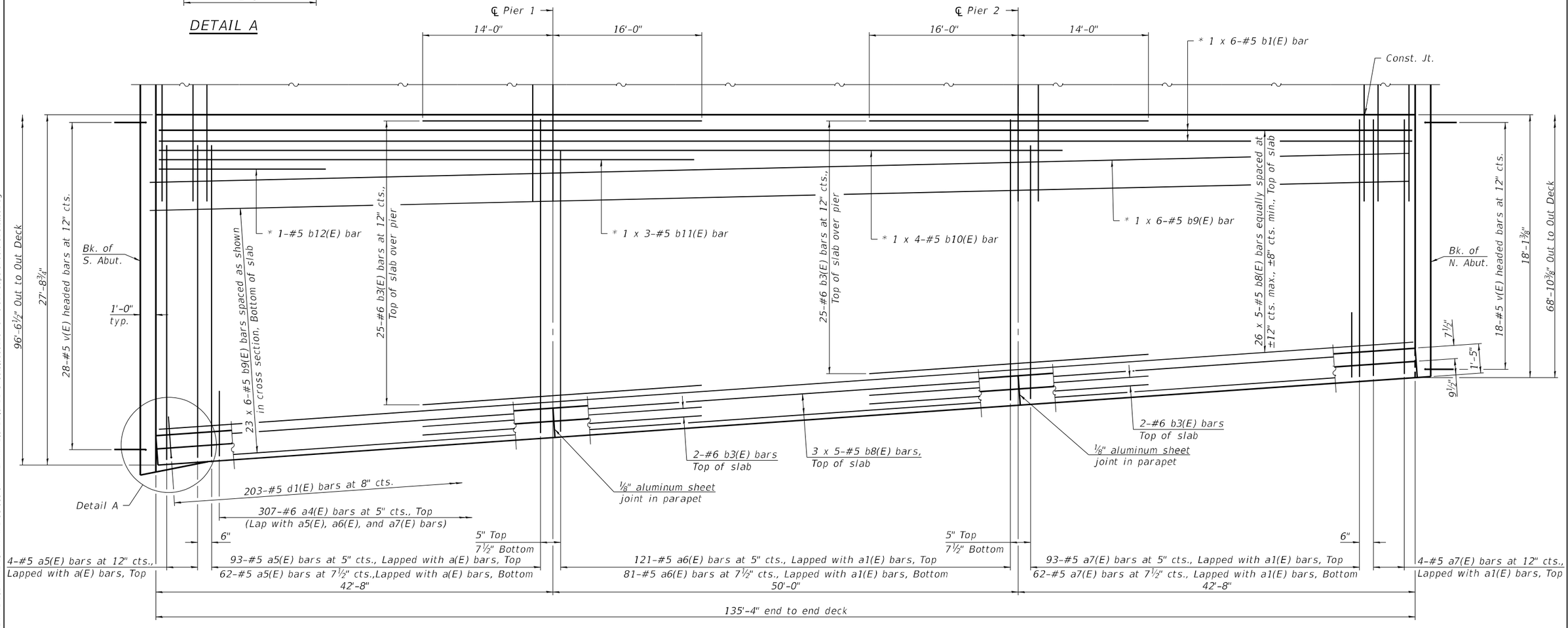
*586/592



DETAIL A

MINIMUM BAR LAP

#5(E) bar = 3'-6"



PART PLAN

* Spaced as shown in cross section, Bottom of Slab

Notes:
- For west portion of deck plan, see sheet 10 of 41.
- For Cross Sections, see sheet 12 of 41.
- For superstructure details and Bill of Material, see sheets 13 thru 15 of 41.
- Bars indicated thus 27 x 5-#5 etc. indicates 27 lines of bars with 5 lengths per line.

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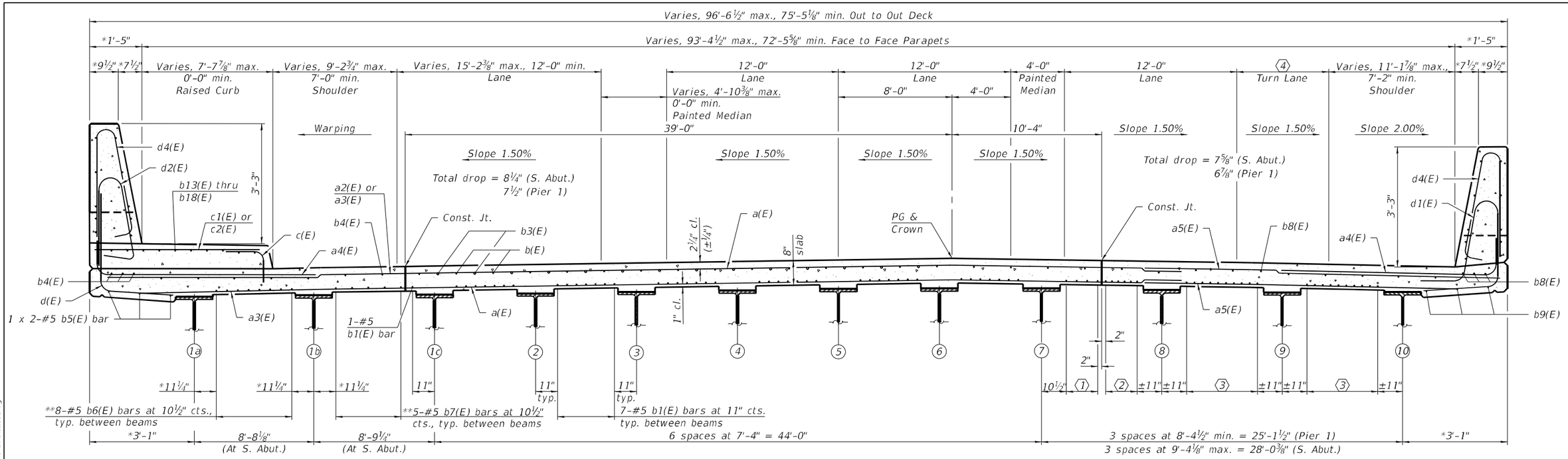
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PLOT DATE =	CHECKED - A.H. Morinaga Mansilla	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 060-0229
SHEET 11 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	153
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592



NEAR PIER

NEAR MIDSPAN

CROSS SECTION - SPAN 1

(Looking North)

⟨1⟩ 4-#5 b1(E) bars at 10½" cts.

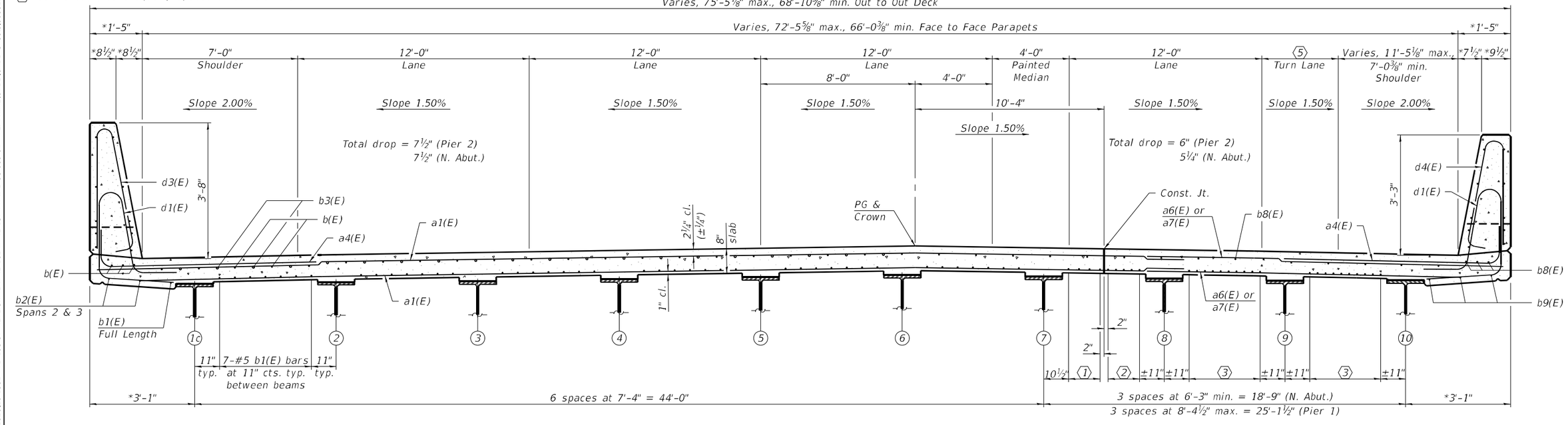
⟨2⟩ 5 spaces at 11" cts. at S. Abut.: Includes bars b1(E), b10(E), b11(E), b12(E), and b9(E)
4 spaces at 11" cts. at Pier 1: Includes bars b1(E), b10(E), b11(E), and b9(E)
3 spaces at 11" cts. at Pier 2: Includes bars b1(E), b10(E), and b9(E)
2 spaces at 11" cts. at N. Abut.: Includes b1(E) and b9(E)

⟨3⟩ 10-#5 b9(E) bars equally spaced at 10" cts., max.

⟨4⟩ Varies, 9'-3⅛" max., 2'-3¾" min.

⟨5⟩ Varies, 2'-3¾" max., 0'-0" min.

* Perpendicular to Beam
** Cut to fit



NEAR PIER

NEAR MIDSPAN

CROSS SECTION - SPANS 2 AND 3

(Looking North)

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PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - A.H. Morinaga Mansilla	REVISED - ____	

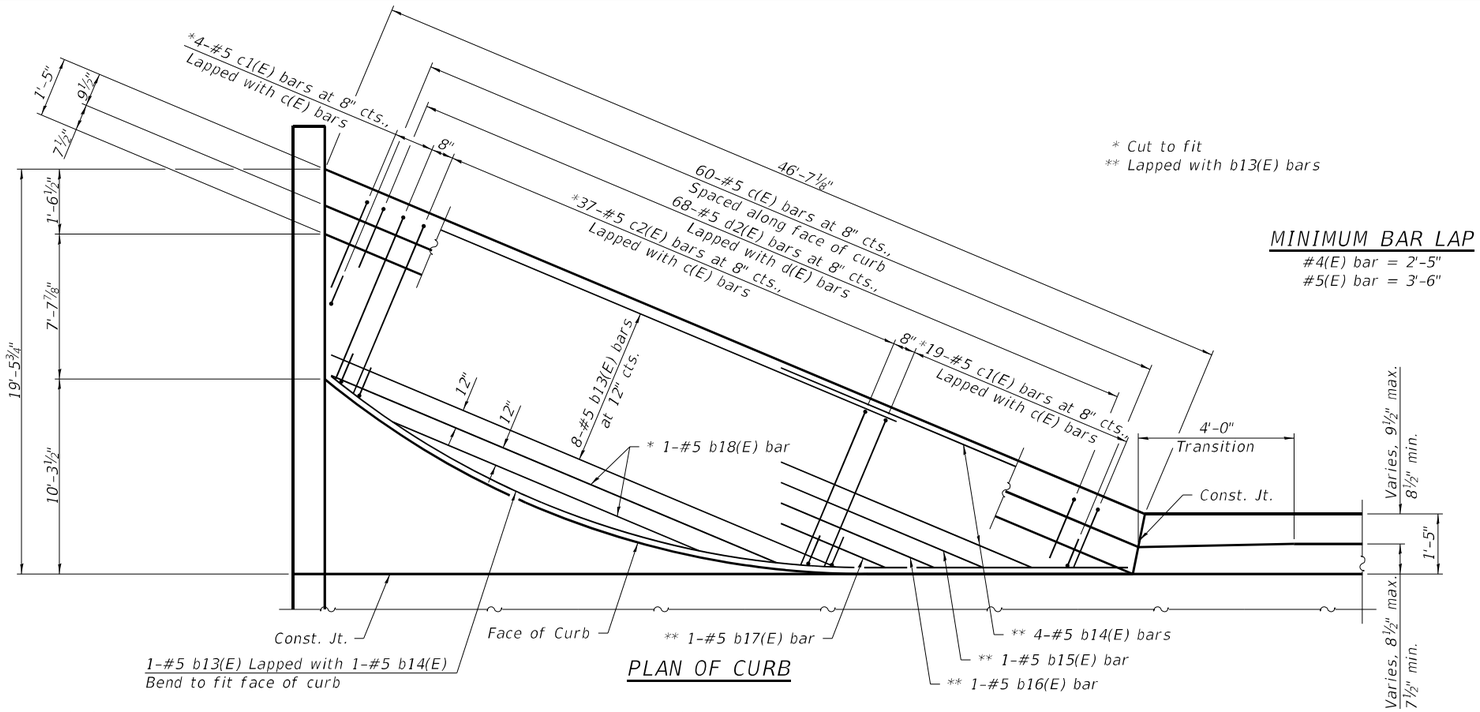
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS III
STRUCTURE NO. 060-0229
SHEET 12 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	154
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

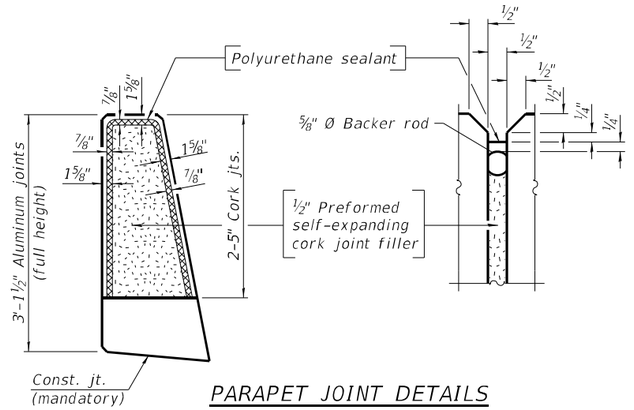
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3/5/2024 8:49:22 AM



* Cut to fit
** Lapped with b13(E) bars

MINIMUM BAR LAP

#4(E) bar = 2'-5"
#5(E) bar = 3'-6"



PARAPET JOINT DETAILS

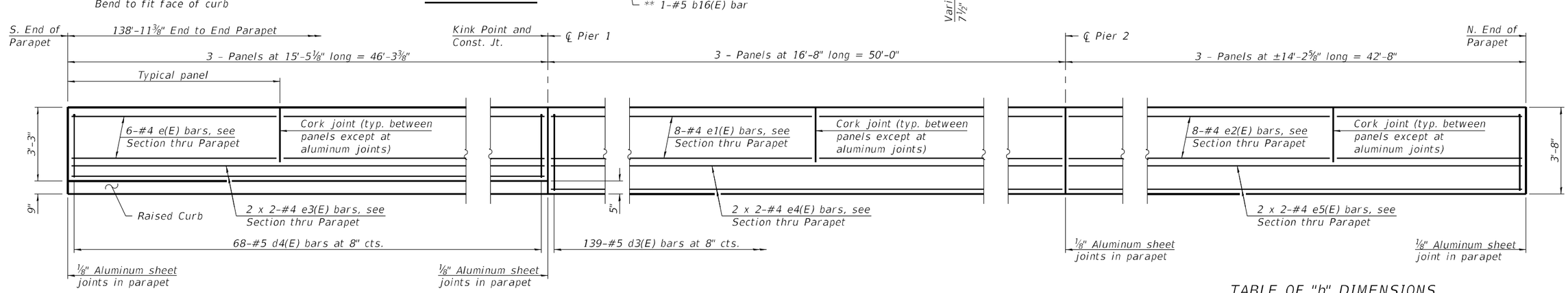
Notes:

The ⅛" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

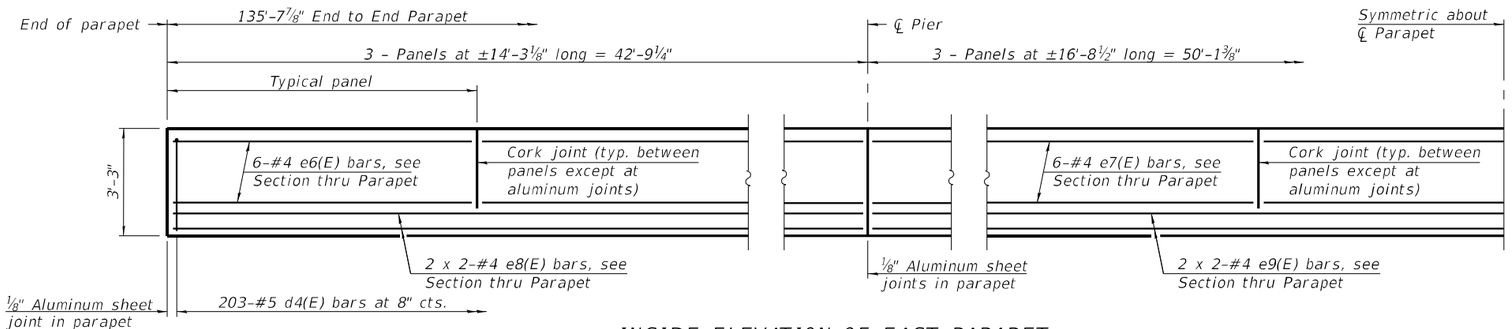
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

PLAN OF CURB



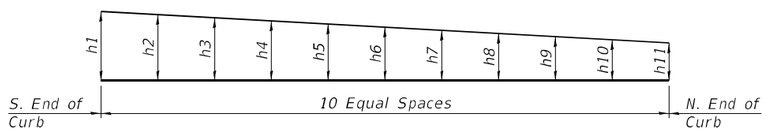
INSIDE ELEVATION OF WEST PARAPET



INSIDE ELEVATION OF EAST PARAPET

TABLE OF "h" DIMENSIONS

Location	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11
Face of Curb	9"	8⅝"	8¼"	7¾"	7⅜"	7"	6⅝"	6¼"	5¾"	5⅜"	5"
Face of Parapet	8"	7¾"	7⅜"	7⅛"	6¾"	6½"	6¼"	5⅞"	5⅝"	5¼"	5"
Edge of Deck	7¾"	7⅜"	6⅞"	6½"	6"	5⅜"	5¼"	4¾"	4⅜"	3⅞"	3½"



RAISED CURB HEIGHT DIAGRAM

Notes:

For superstructure details and Bill of Material, see sheets 14 and 15 of 41.

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

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USER NAME = ____ | DESIGNED - T.S. Friederich | REVISED - ____
PLOT SCALE = ____ | CHECKED - E.M. Lagemann | REVISED - ____
PLOT DATE = ____ | DRAWN - T.S. Friederich | REVISED - ____
CHECKED - A.H. Morinaga Mansilla | REVISED - ____

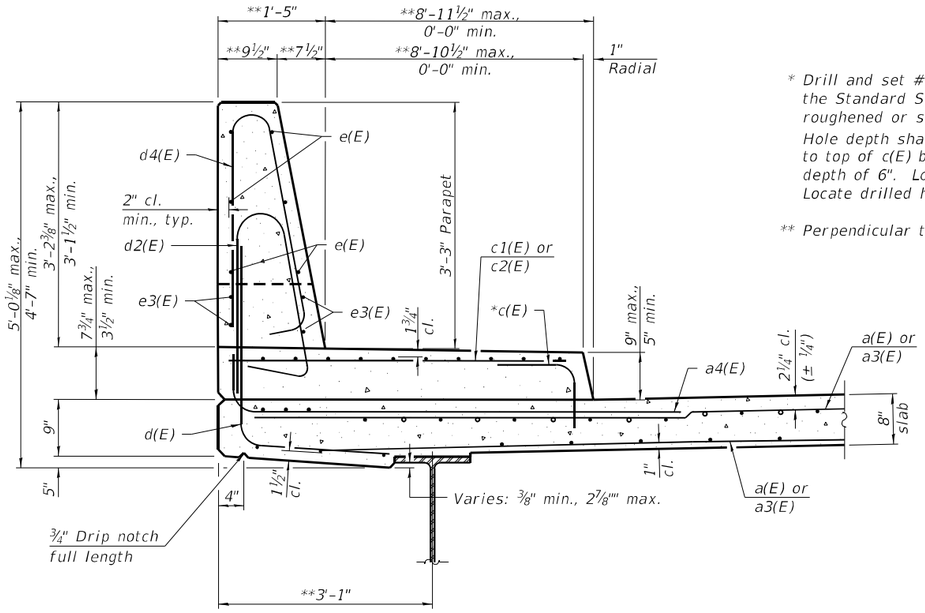
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS IV
STRUCTURE NO. 060-0229
SHEET 13 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	155
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

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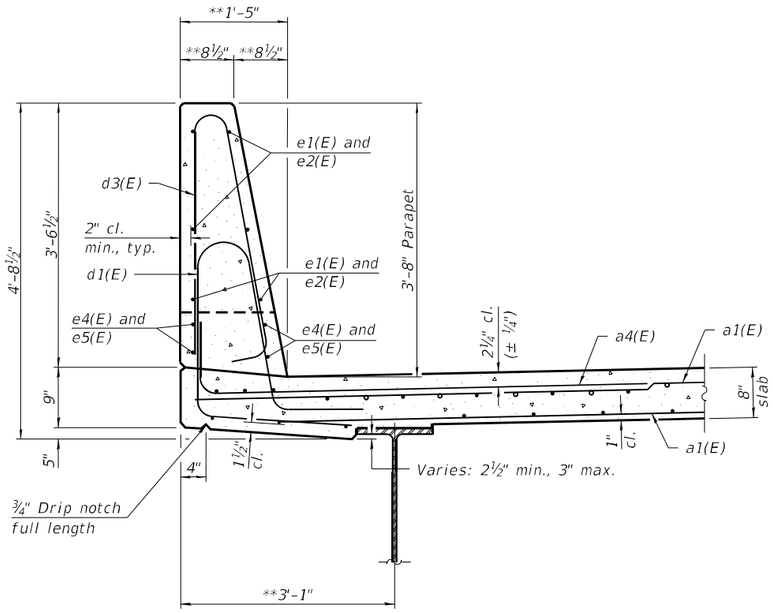


SECTION THRU WEST PARAPET – SPAN 1

(Looking North)

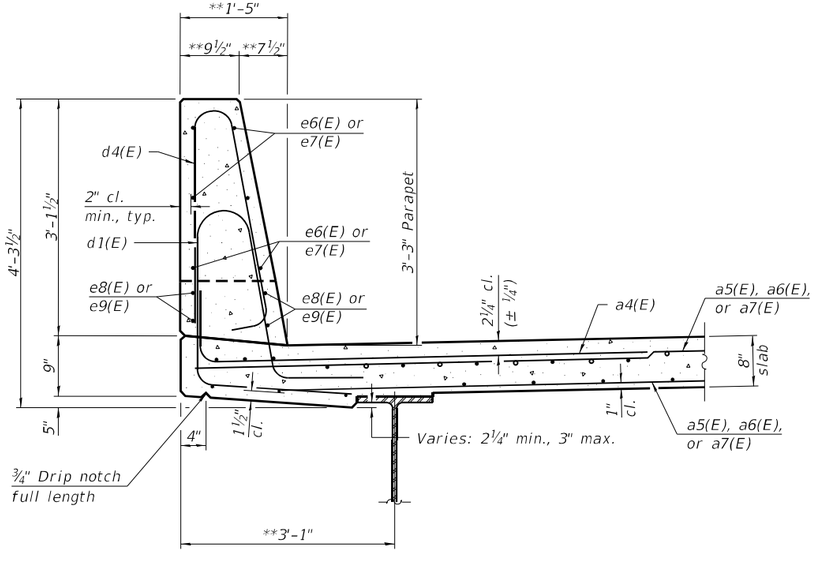
* Drill and set #5 c(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendation. Hole depth shall be deep enough to provide 1¾" clearance to top of c(E) bar and top of curb, with a maximum hole depth of 6". Locate Longitudinal bars to miss drilled holes. Locate drilled holes to miss Transverse bars in appr. slab.

** Perpendicular to Beam.



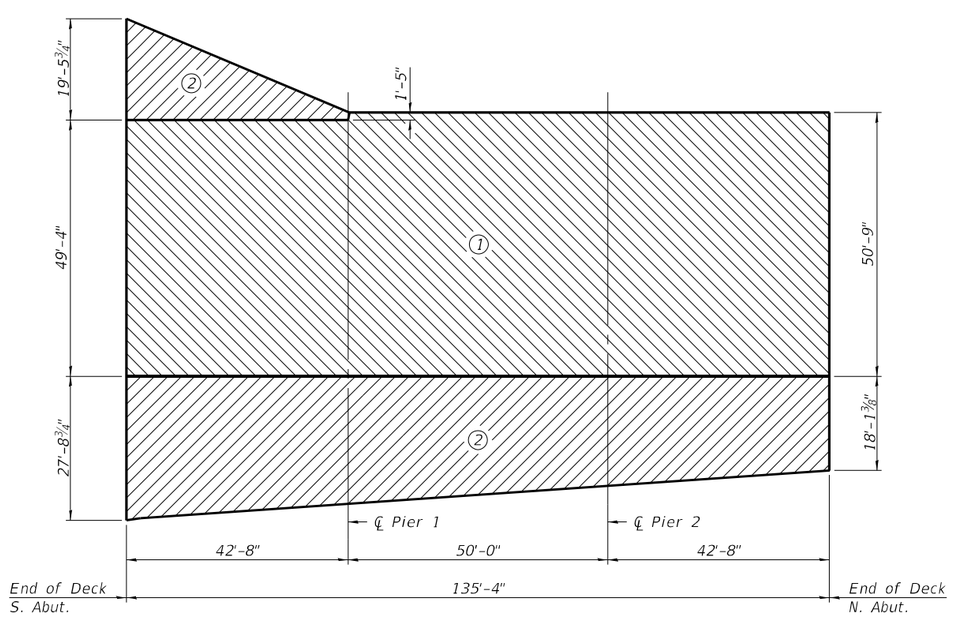
SECTION THRU WEST PARAPET – SPANS 2 & 3

(Looking North)



SECTION THRU EAST PARAPET

(Looking South)



DECK POURING SEQUENCE

Note:

When the deck pour is stopped for the day at the longitudinal bonded construction joint in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

a. At least 72 hours shall have elapsed from the end of the previous pour.
b. The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compressive strength of 4,000 psi.

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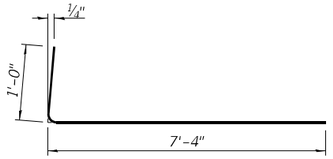
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	CHECKED - E.M. Lagemann	REVISED - ____		
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____		
PLOT DATE = ____	CHECKED - A.H. Morinaga Mansilla	REVISED - ____		

STATE OF ILLINOIS
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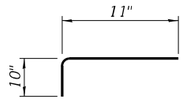
SUPERSTRUCTURE DETAILS V
STRUCTURE NO. 060-0229
SHEET 14 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	156
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

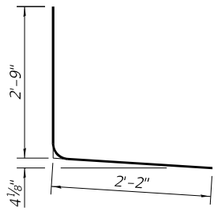
*586/592



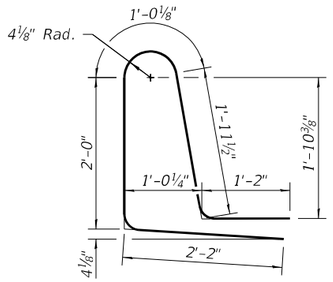
BAR a4(E)



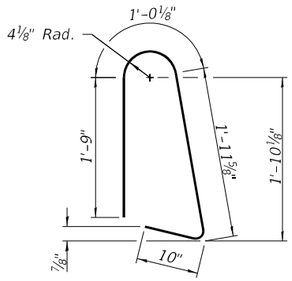
BAR c(E)



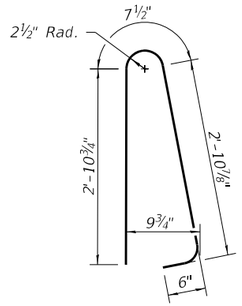
BAR d(E)



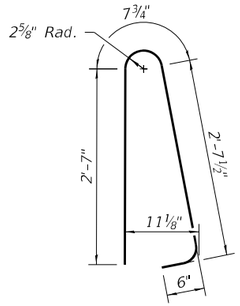
BAR d1(E)



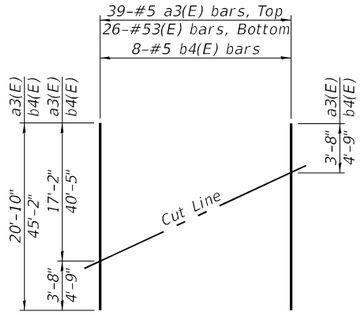
BAR d2(E)



BAR d3(E)

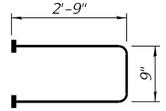


BAR d4(E)

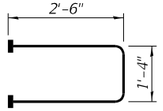


FIELD CUTTING DIAGRAM

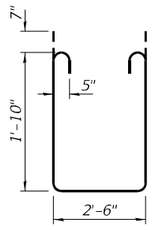
Order a3(E) and b4(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.



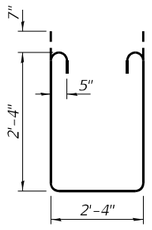
BAR s(E)
(Headed)



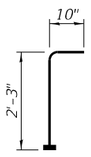
BAR s2(E)
(Headed)



BAR s1(E)



BAR s3(E)



BAR v(E)
(Headed)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	318	#5	32'-2"	
a1(E)	722	#5	30'-10"	
a2(E)	4	#5	18'-8"	
a3(E)	65	#5	20'-10"	
a4(E)	614	#6	8'-4"	
a5(E)	159	#5	23'-11"	
a6(E)	202	#5	20'-5"	
a7(E)	159	#5	17'-6"	
b(E)	265	#5	29'-10"	
b1(E)	294	#5	25'-5"	
b2(E)	8	#5	25'-9"	
b3(E)	156	#6	30'-0"	
b4(E)	8	#5	45'-2"	
b5(E)	6	#5	24'-11"	
b6(E)	8	#5	38'-5"	
b7(E)	5	#5	16'-0"	
b8(E)	145	#5	29'-11"	
b9(E)	144	#5	25'-6"	
b10(E)	4	#5	27'-2"	
b11(E)	3	#5	21'-10"	
b12(E)	1	#5	18'-9"	
b13(E)	9	#5	29'-0"	
b14(E)	5	#5	20'-8"	
b15(E)	1	#5	13'-0"	
b16(E)	1	#5	10'-2"	
b17(E)	1	#5	7'-5"	
b18(E)	2	#5	25'-7"	
c(E)	60	#5	1'-9"	
c1(E)	23	#5	8'-3"	
c2(E)	37	#5	10'-1"	
d(E)	68	#5	4'-11"	
d1(E)	342	#5	8'-4"	
d2(E)	68	#5	5'-7"	
d3(E)	139	#5	7'-0"	
d4(E)	271	#5	6'-5"	
e(E)	18	#4	15'-1"	
e1(E)	24	#4	16'-4"	
e2(E)	24	#4	13'-10"	
e3(E)	8	#4	24'-3"	
e4(E)	8	#4	26'-1"	
e5(E)	8	#4	22'-5"	
e6(E)	36	#4	14'-0"	
e7(E)	18	#4	16'-5"	
e8(E)	16	#4	22'-6"	
e9(E)	8	#4	26'-2"	

BILL OF MATERIAL (CONT.)

Bar	No.	Size	Length	Shape
h(E)	6	#5	6'-0"	
m(E)	2	#6	2'-11"	
m1(E)	2	#6	8'-2"	
m2(E)	2	#6	6'-0"	
m3(E)	2	#6	1'-4"	
m4(E)	36	#6	7'-0"	
m5(E)	6	#6	3'-4"	
m6(E)	3	#6	5'-3"	
m7(E)	6	#6	8'-10"	
m8(E)	9	#6	2'-9"	
m9(E)	3	#6	19'-5"	
m10(E)	8	#6	26'-11"	
m11(E)	4	#6	27'-6"	
m12(E)	3	#6	2'-4"	
m13(E)	6	#6	5'-11"	
m14(E)	8	#6	27'-8"	
m15(E)	4	#6	17'-9"	
sE)	18	#5	6'-3"	
s1(E)	18	#5	7'-4"	
s2(E)	140	#5	6'-4"	
s3(E)	140	#5	8'-2"	
v(E)	169	#5	3'-1"	
Bridge Deck Grooving			Sq. Yd.	1,044
Concrete Superstructure			Cu. Yd.	363.8
Reinforcement Bars, Epoxy Coated			Pound	101,330

MODEL: Default
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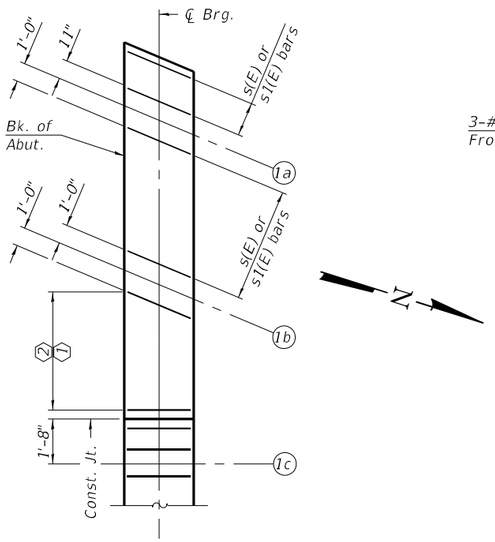
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		CHECKED -	E.M. Lagemann	REVISED -	
PLOT SCALE =		DRAWN -	T.S. Friederich	REVISED -	
PLOT DATE =		CHECKED -	A.H. Morinaga Mansilla	REVISED -	

STATE OF ILLINOIS
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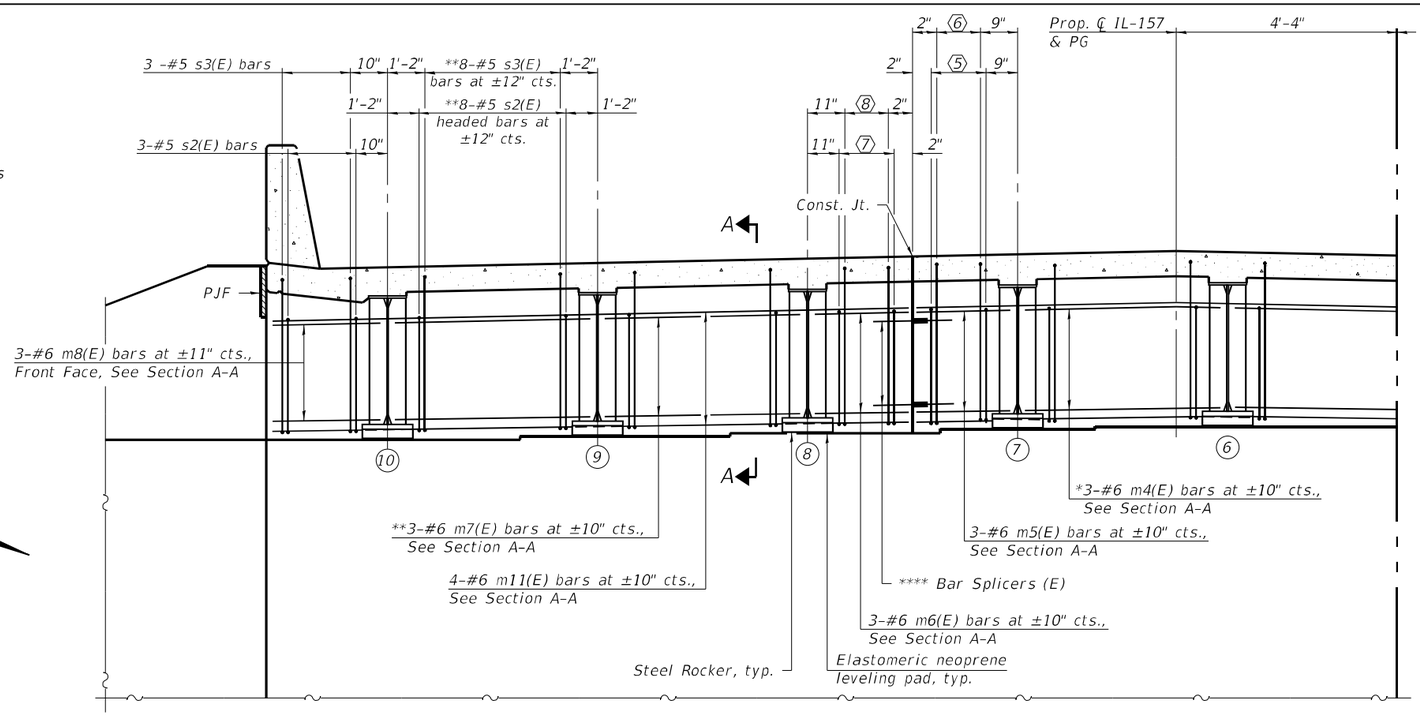
SUPERSTRUCTURE DETAILS VI
STRUCTURE NO. 060-0229
SHEET 15 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	157
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

* typ. between beams 1c thru 7
** typ. between beams 8 thru 10
*** 3-#6 Bar Splicers (E) for m9(E) and m10(E) bars
**** 4-#6 Bar Splicers (E) for m10(E) and m11(E) bars



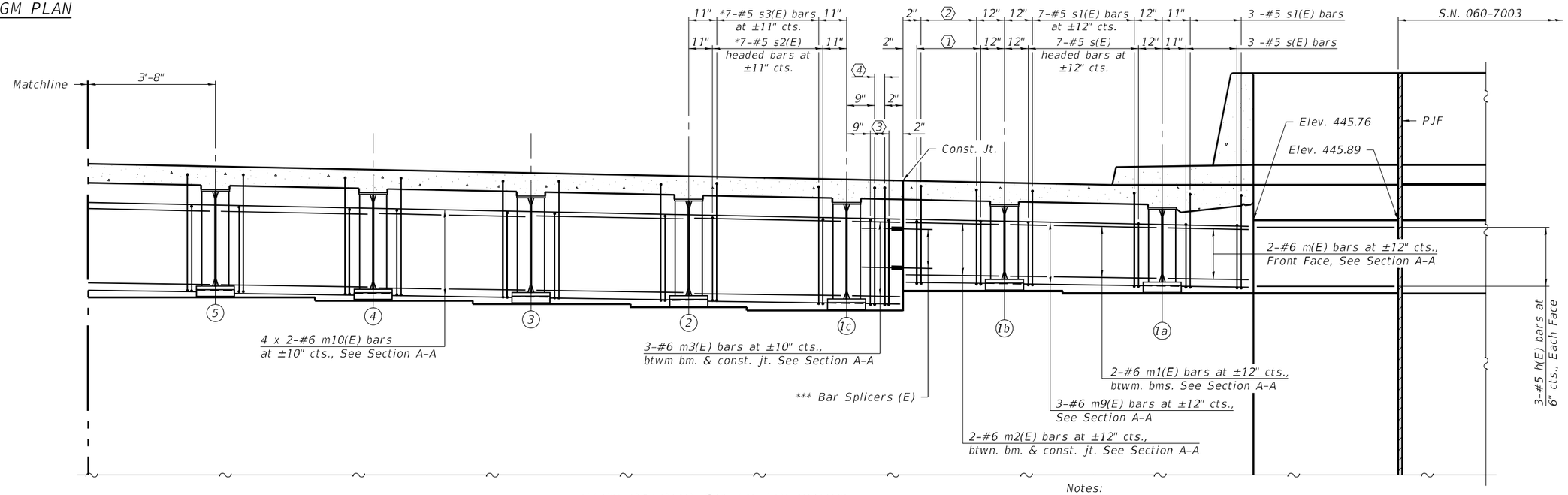
PART DIAPHRAGM PLAN



PART DIAPHRAGM AT ABUTMENT
(Looking South)

MINIMUM BAR LAP
#6(E) bar = 4'-10"

1. 8-#5 s(E) headed bars flared at ±12" cts., max.
2. 8-#5 s1(E) bars flared at ±12" cts., max.
3. 2-#5 s2(E) headed bars at ±9" cts.
4. 2-#5 s3(E) bars at ±9" cts.
5. 4-#5 s2(E) headed bars at ±11" cts.
6. 4-#5 s3(E) bars at ±11" cts.
7. 6-#5 s2(E) headed bars at ±11" cts.
8. 6-#5 s3(E) bars at ±11" cts.



PART DIAPHRAGM AT ABUTMENT
(Looking South)

Notes:
For superstructure details and Bill of Material, see sheets 10 thru 15 of 41.
For Section A-A, see sheet 17 of 41.
Bars indicated thus 4 x 2-#6 etc. indicates 4 lines of bars with 2 lengths per line.

MODEL: Default
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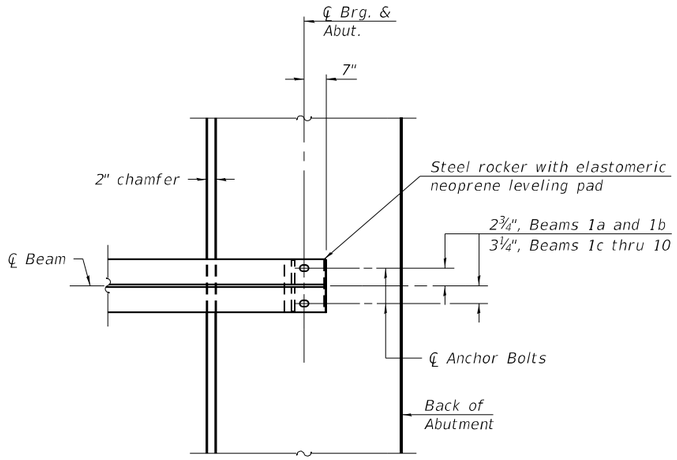
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		CHECKED -	E.M. Lagemann	REVISED -	
PLOT SCALE =		DRAWN -	T.S. Friederich	REVISED -	
PLOT DATE =		CHECKED -	A.H. Moringa Mansilla	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

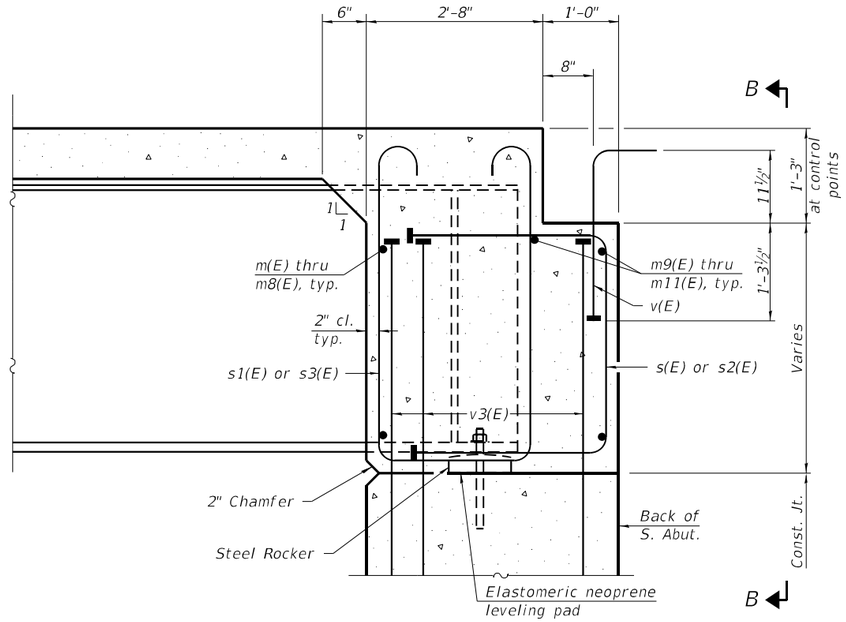
SOUTH ABUTMENT DIAPHRAGM DETAILS I
STRUCTURE NO. 060-0229
SHEET 16 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	158
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

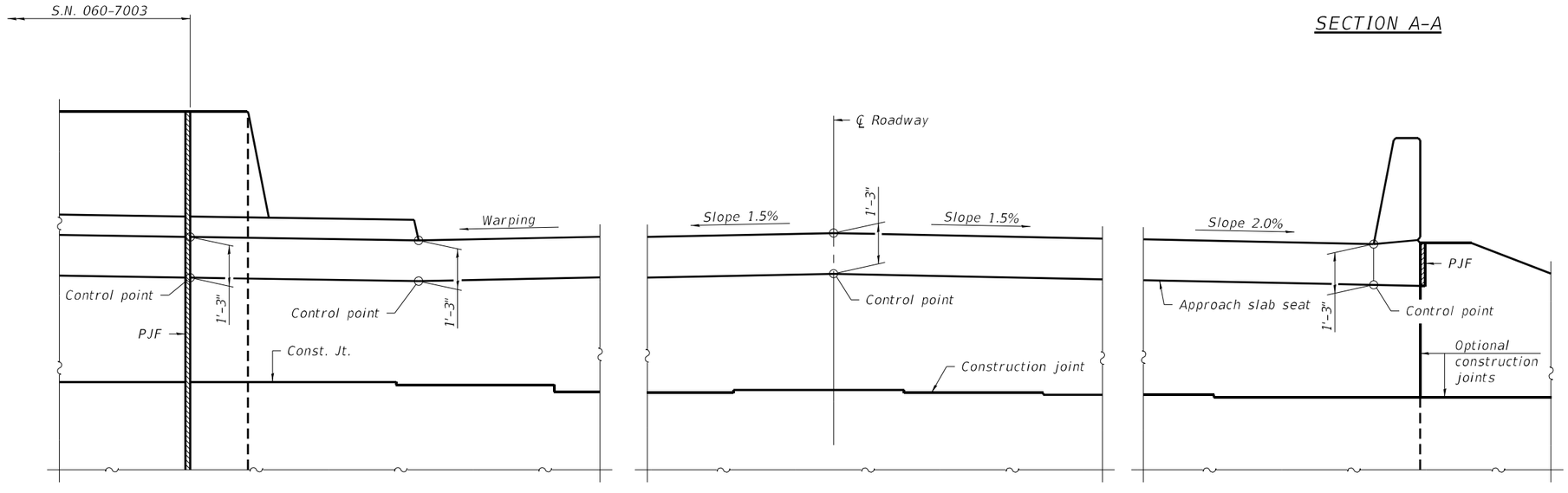
*586/592



PLAN AT ABUTMENT
(Showing bottom flange of beam)



SECTION A-A



VIEW B-B

Notes:
For location of Section A-A, see sheet 16 of 41.
For PJF details, see sheet 21 of 41.

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	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - T.S. Friederich	REVISED -	
PLOT DATE =	CHECKED - A.H. Morinaga Mansilla	REVISED -	

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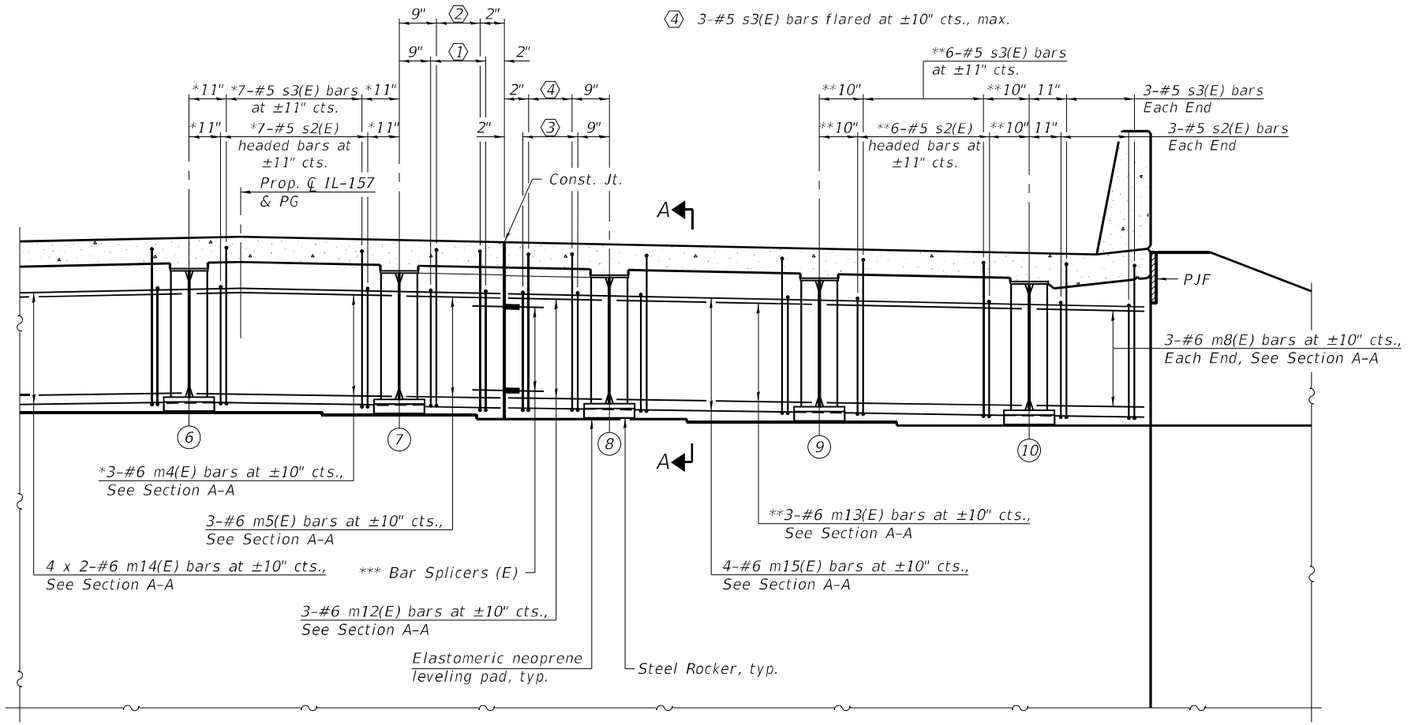
SOUTH ABUTMENT DIAPHRAGM DETAILS II
STRUCTURE NO. 060-0229
SHEET 17 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	51-1R	MADISON	296	159
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

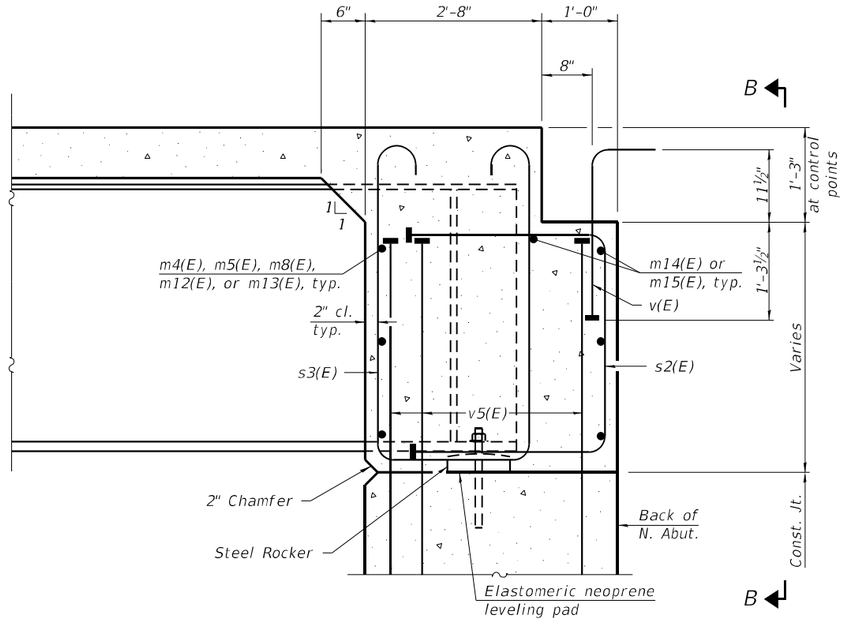
*586/592

* typ. between beams 1c thru 7
** typ. between beams 8 thru 10
*** 4-#6 Bar Splicers (E) for m14(E) and m15(E) bars

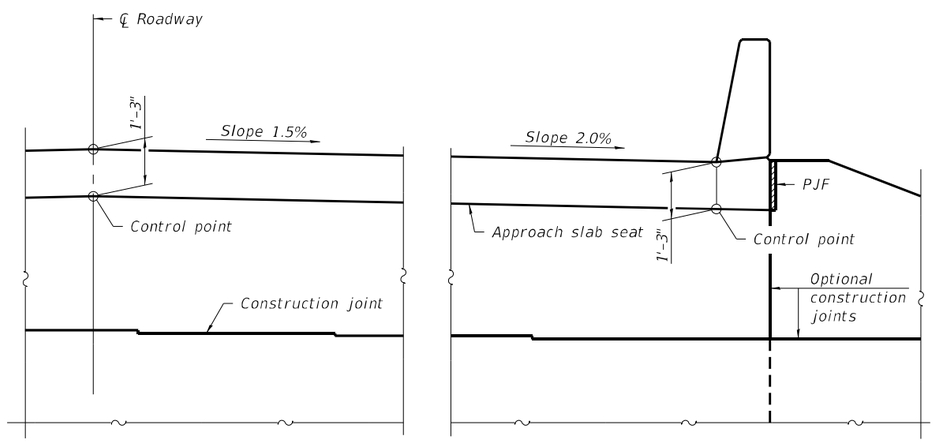
① 4-#5 s2(E) headed bars at ±11" cts., max.
② 4-#5 s3(E) bars at ±11" cts., max.
③ 3-#5 s2(E) headed bars flared at ±10" cts., max.
④ 3-#5 s3(E) bars flared at ±10" cts., max.



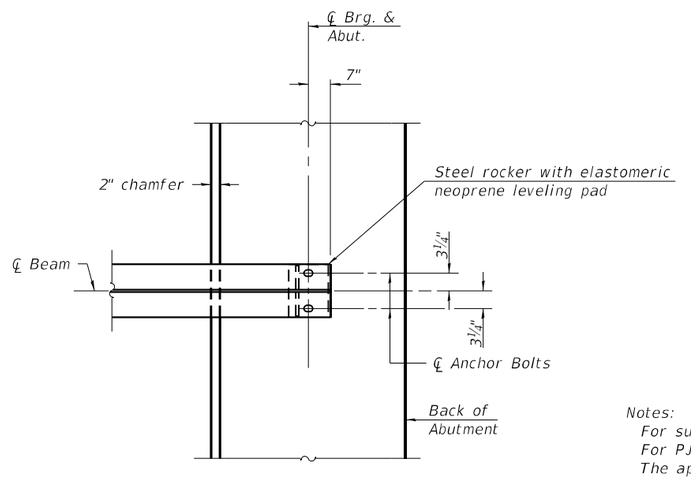
DIAPHRAGM AT ABUTMENT
(Looking North)



SECTION A-A



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

MINIMUM BAR LAP
#6(E) bar = 4'-10"

Notes:
For superstructure details and Bill of Material, see sheets 10 thru 15 of 41.
For PJF details, see sheet 24 of 41.
The approach slab seat shall have a constant slope determined from the control points shown.
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

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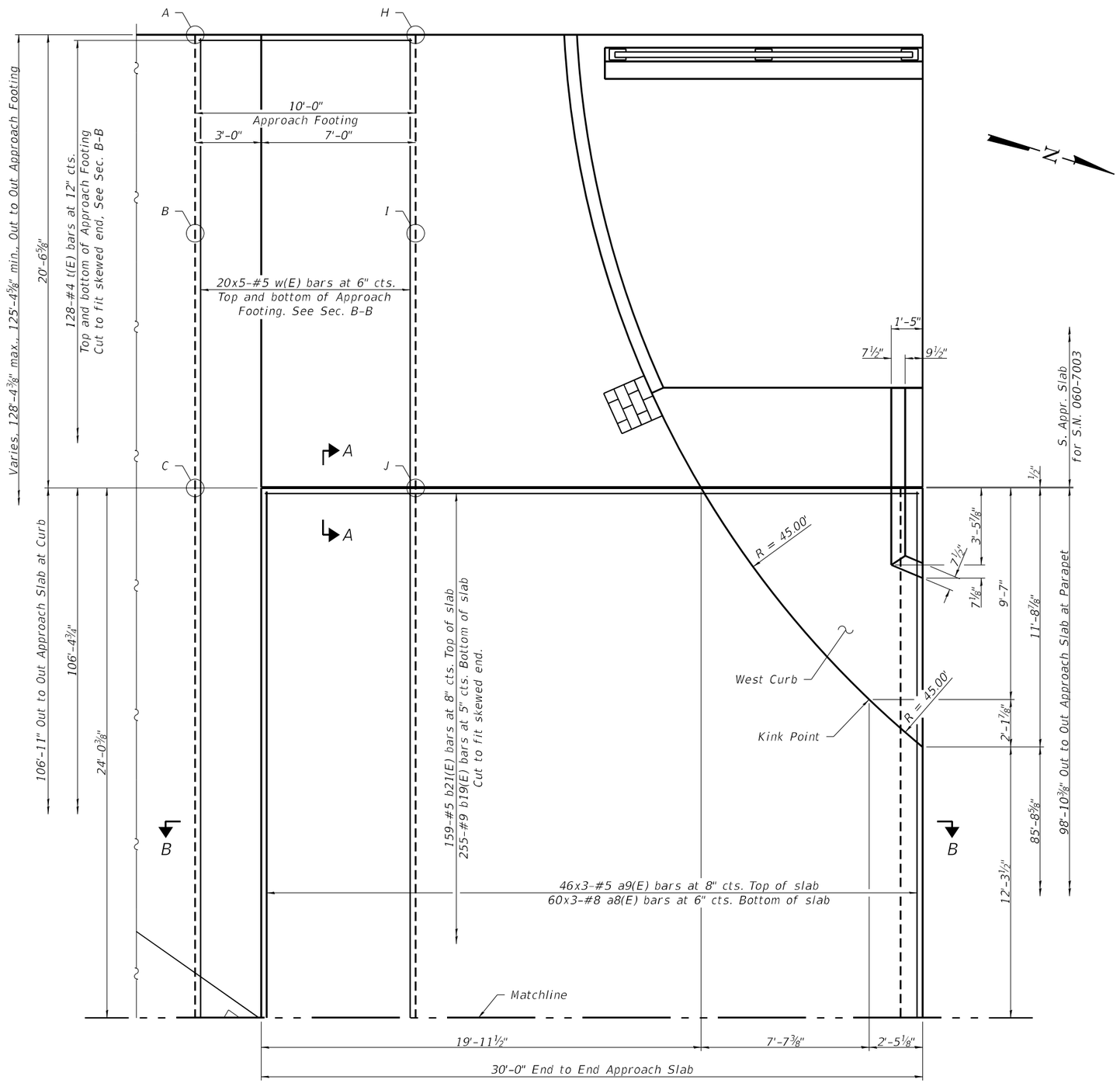
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PLOT DATE = ____	CHECKED - A.H. Morinaga Mansilla	REVISED - ____

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NORTH ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 060-0229
SHEET 18 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

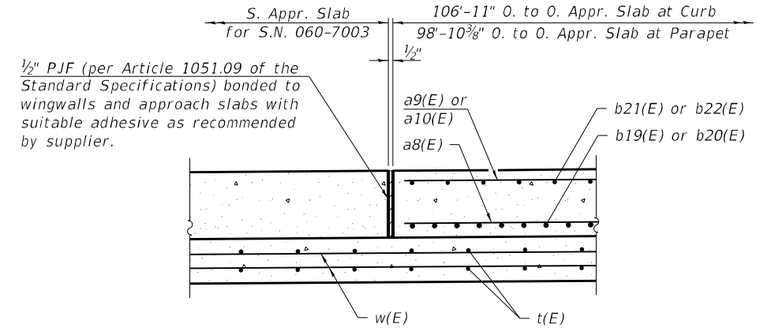
*586/592



PART PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point/ Location	Station	Offset	Top	Bottom
A	583+69.33	-81.58 ft.	445.09	444.26
B	583+69.33	-72.58 ft.	445.20	444.37
C	583+69.33	-61.03 ft.	445.27	444.44
D	583+69.33	-32.00 ft.	445.39	444.56
E	583+69.33	0.00 ft.	445.87	445.04
F	583+69.33	20.00 ft.	445.57	444.74
G	583+69.33	46.78 ft.	445.03	444.20
H	583+79.33	-81.58 ft.	445.14	444.31
I	583+79.33	-72.58 ft.	445.27	444.44
J	583+79.33	-61.03 ft.	445.30	444.47
K	583+79.33	-32.00 ft.	445.44	444.61
L	583+79.33	0.00 ft.	445.92	445.09
M	583+79.33	20.00 ft.	445.62	444.79
N	583+79.33	43.81 ft.	445.14	444.31



SECTION A-A

MINIMUM BAR LAP

#4(E) bar = 2'-5"
#5(E) bar = 3'-6"
#8(E) bar = 4'-9"

Notes:
The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-7003. Quantities for reinforcement and concrete are included in this structure plans.
Reinforcement details for the West Curb and Parapet not shown for clarity.
Bars indicated thus 20 x 5-#5 etc. indicates 20 lines of bars with 5 lengths per line.
For portion of South Approach Slab east of the Matchline, see sheet 20 of 41.
For Plan of West Curb and Section B-B, see sheet 22 of 41.

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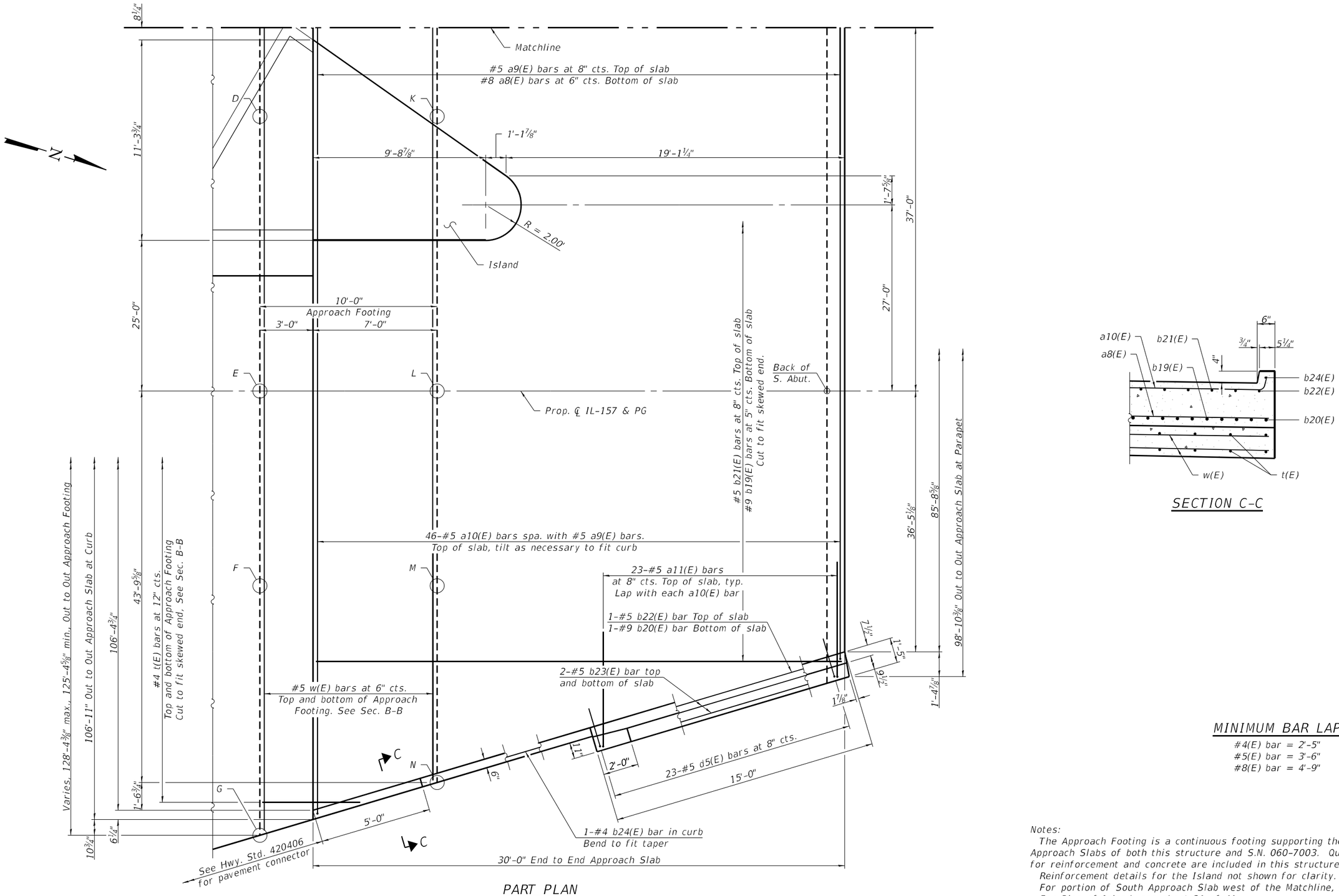
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PLOT DATE =		CHECKED -	A.H. Morinaga-Mansilla	REVISED -	

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SOUTH BRIDGE APPROACH SLAB I
STRUCTURE NO. 060-0229
SHEET 19 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	161
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592



PART PLAN

SECTION C-C

MINIMUM BAR LAP

#4(E) bar = 2'-5"
#5(E) bar = 3'-6"
#8(E) bar = 4'-9"

Notes:
The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-7003. Quantities for reinforcement and concrete are included in this structure plans.
Reinforcement details for the Island not shown for clarity.
For portion of South Approach Slab west of the Matchline, see sheet 19 of 41.
For Plan of Island, see sheet 21 of 41.

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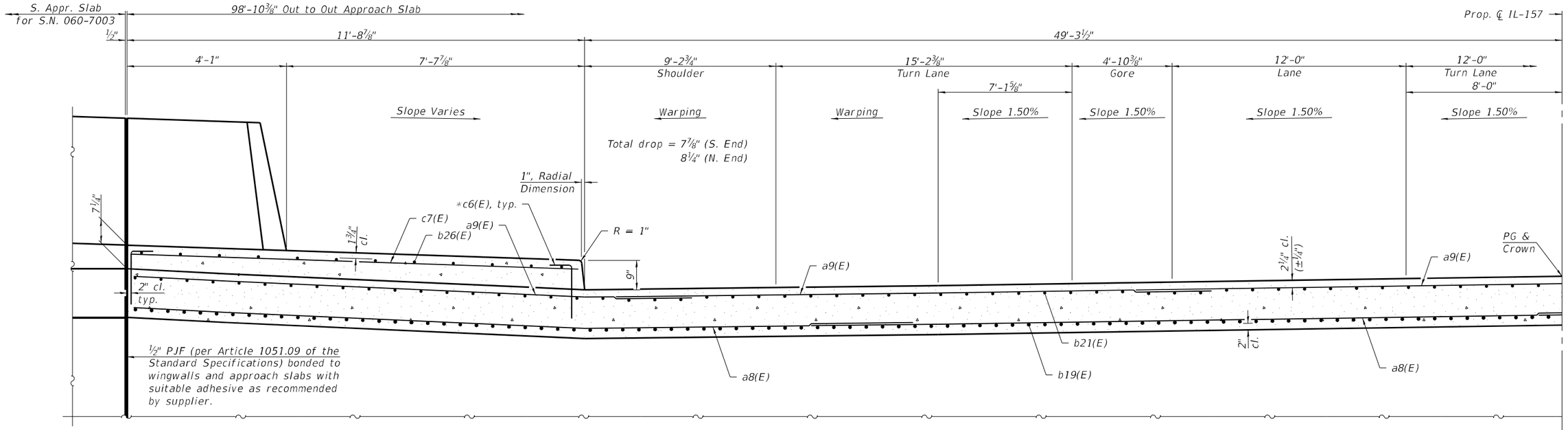
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PLOT DATE = ____	CHECKED - A.H. Morinaga-Mansilla	REVISED - ____

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SOUTH BRIDGE APPROACH SLAB II
STRUCTURE NO. 060-0229
SHEET 20 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

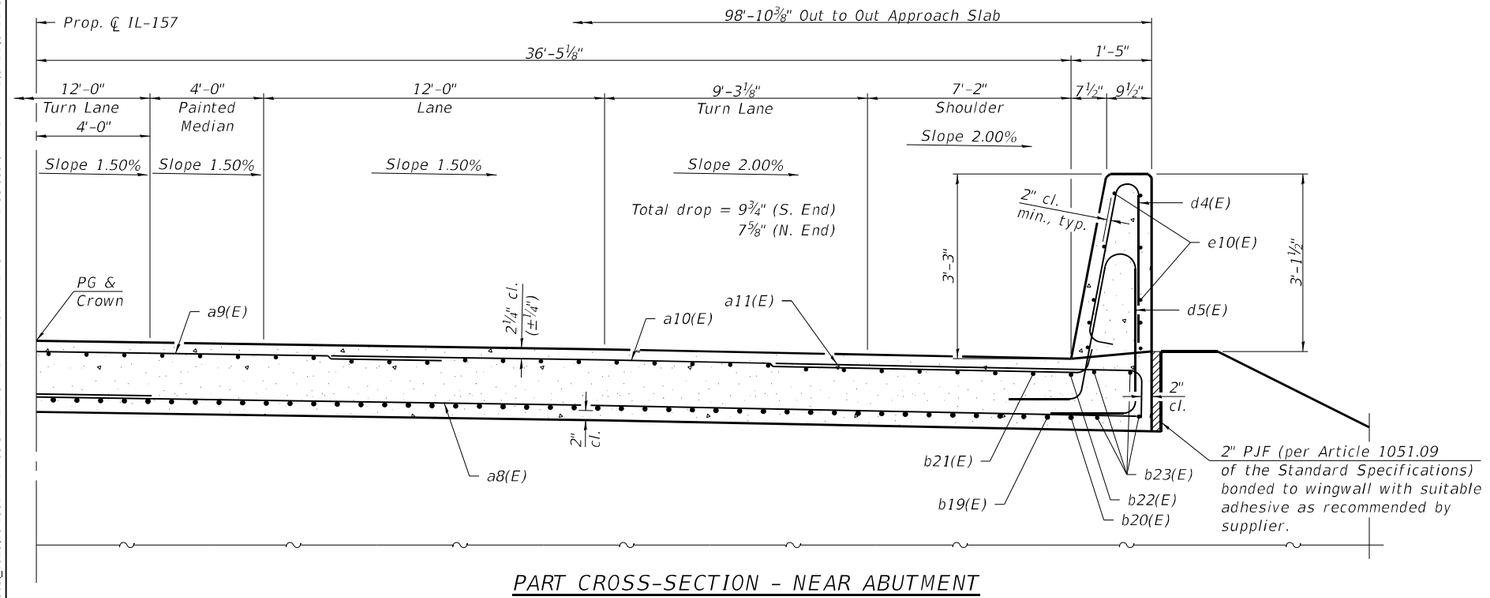
*586/592



PART CROSS-SECTION - NEAR ABUTMENT

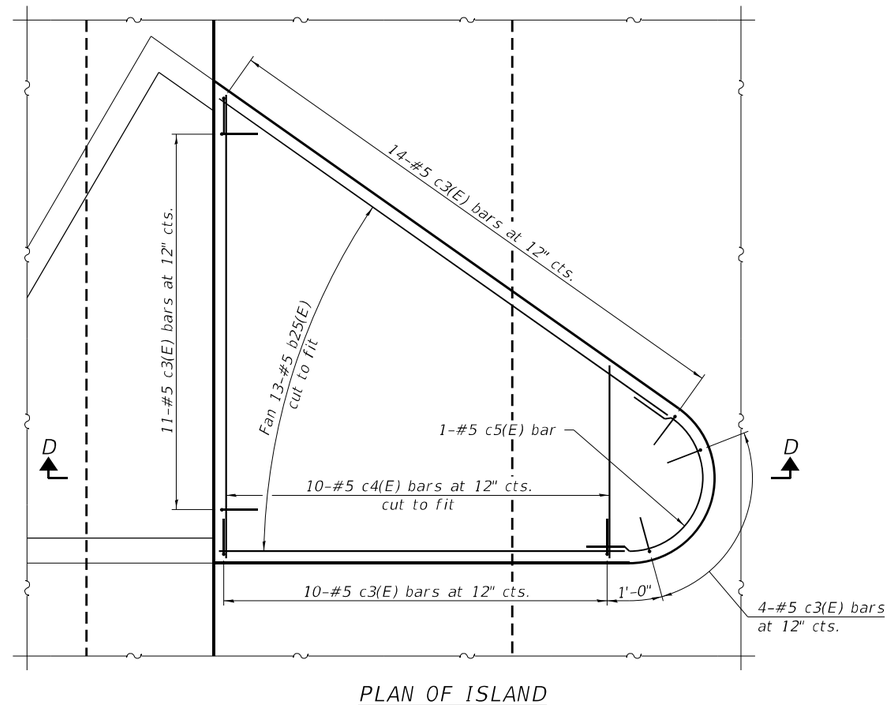
(Looking North)

* Drill and set #5 c3(E) and c6(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendation. Hole depth shall be deep enough to provide 1 3/4" clearance to top of c3(E) and c6(E) bars and top of curb, with a minimum hole depth of 6". Locate Longitudinal bars to miss drilled holes. Locate drilled holes to miss Transverse bars in appr. slab.



PART CROSS-SECTION - NEAR ABUTMENT

(Looking North)



PLAN OF ISLAND

Note:
For Section D-D, see sheet 22 of 41.

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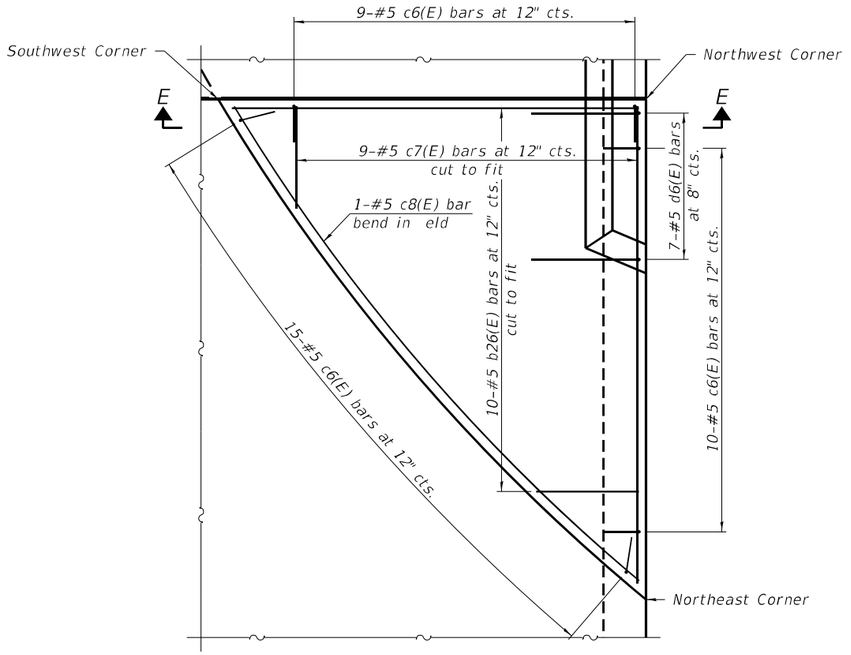
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SOUTH BRIDGE APPROACH SLAB III
STRUCTURE NO. 060-0229
SHEET 21 OF 41 SHEETS

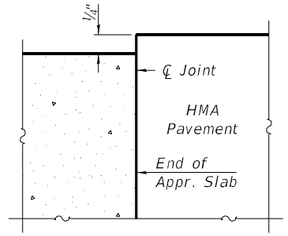
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	51-1R	MADISON	296	163
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

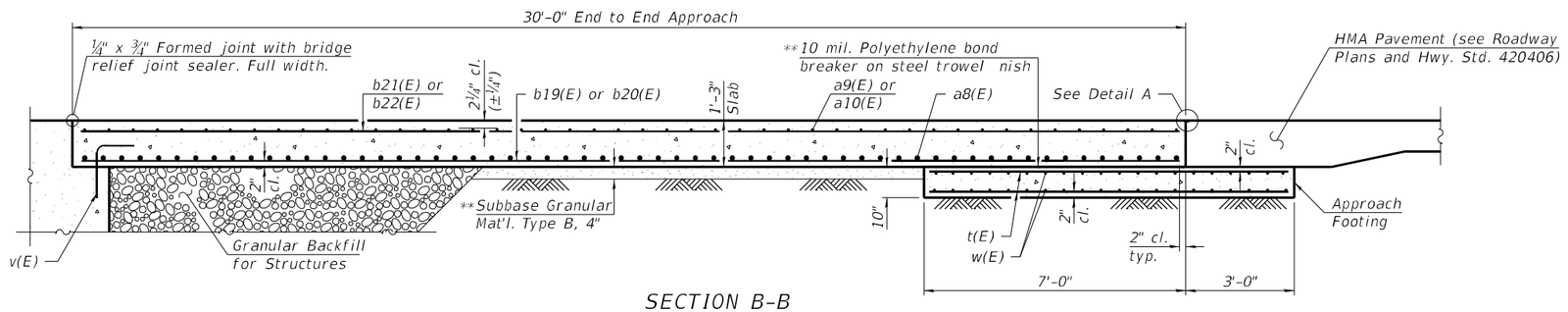


PLAN OF WEST CURB

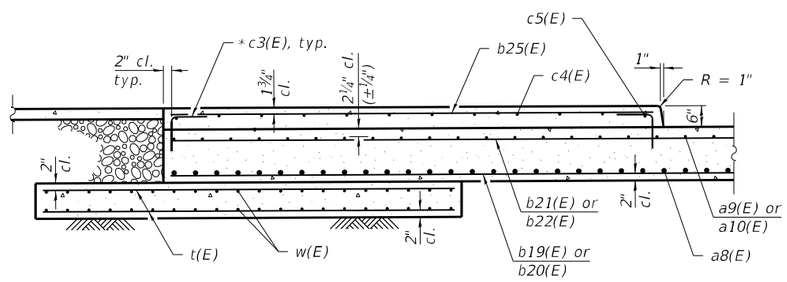
* Drill and set #5 c3(E) and c6(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendation. Hole depth shall be deep enough to provide 1¾" clearance to top of c3(E) and c6(E) bars and top of curb, with a minimum hole depth of 6". Locate Longitudinal bars to miss drilled holes. Locate drilled holes to miss Transverse bars in appr. slab.
** Cost included with Concrete Superstructure (Approach Slab).



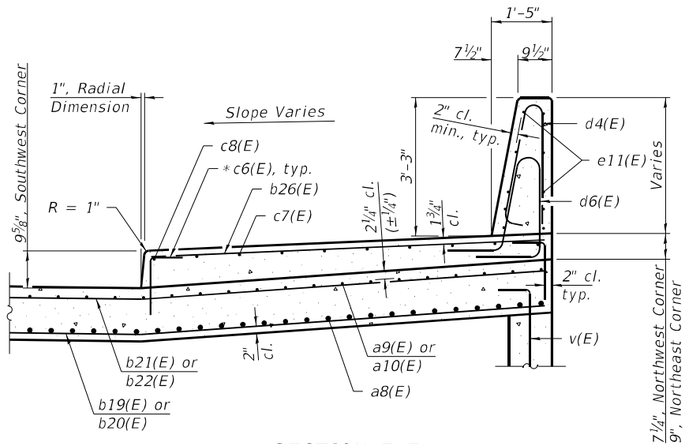
DETAIL A



SECTION B-B



SECTION D-D



SECTION E-E

Notes:
For location of Section B-B, see sheet 19 of 41.
For location of Section D-D, see sheet 21 of 41.

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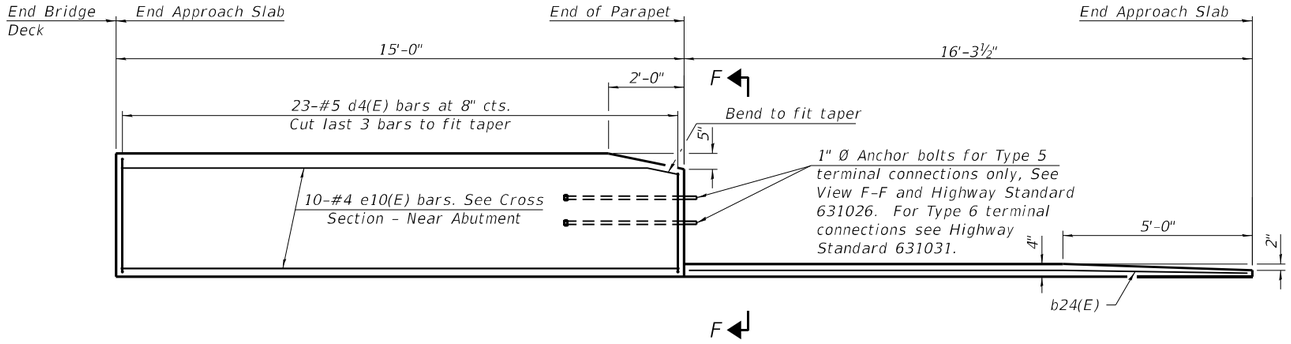
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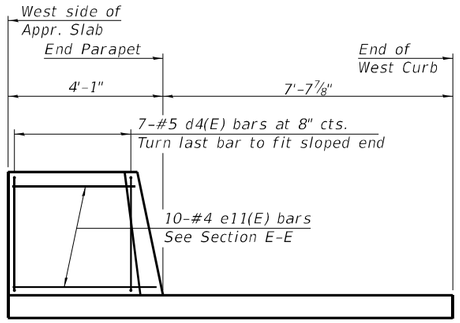
SOUTH BRIDGE APPROACH SLAB IV
STRUCTURE NO. 060-0229
SHEET 22 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

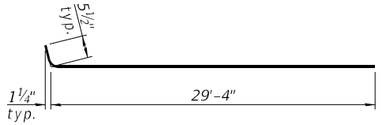
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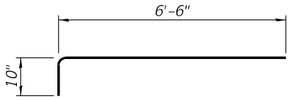
INSIDE ELEVATION OF EAST PARAPET AND CURB



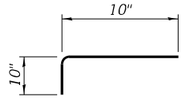
INSIDE ELEVATION OF WEST PARAPET AND CURB



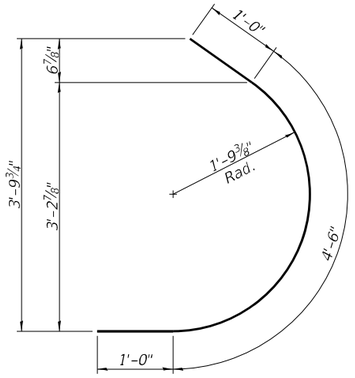
BAR a10(E)

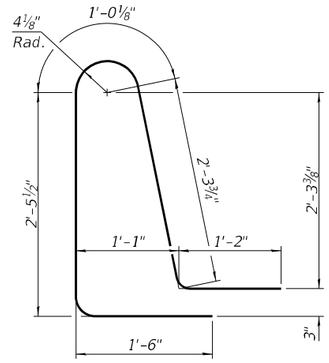


BAR a11(E)

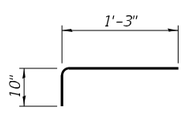


BAR c3(E)

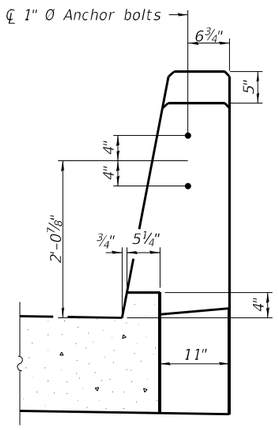




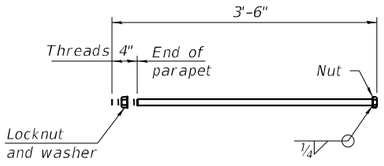
BAR d5(E)



BAR c6(E)

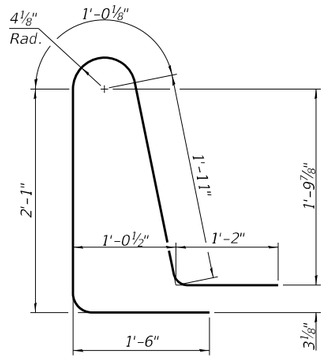


VIEW F-F



*1" Ø ANCHOR BOLT

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



BAR d6(E)

Notes:

The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-7003. Quantities for reinforcement and concrete are included in this structure plans.

Parapet, west curb, and island 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 Back II for Structures and drainage treatment details, see sheet 2 of 41.

For Section E-E, see sheet 22 of 41.

For d4(E) bar bending diagram, see sheet 15 of 41.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a8(E)	180	#8	38'-9"	
a9(E)	138	#5	29'-4"	
a10(E)	46	#5	29'-10"	
a11(E)	23	#5	7'-4"	
b19(E)	255	#9	29'-8"	
b20(E)	1	#9	30'-11"	
b21(E)	159	#5	29'-8"	
b22(E)	1	#5	30'-11"	
b23(E)	4	#5	14'-8"	
b24(E)	1	#4	16'-0"	
b25(E)	13	#5	14'-0"	
b26(E)	10	#5	9'-6"	
c3(E)	39	#5	1'-8"	
c4(E)	10	#5	11'-0"	
c5(E)	1	#5	6'-6"	
c6(E)	34	#5	2'-1"	
c7(E)	9	#5	11'-5"	
c8(E)	1	#5	14'-9"	
d4(E)	30	#5	6'-5"	
d5(E)	23	#5	8'-6"	
d6(E)	7	#5	7'-8"	
e10(E)	10	#4	14'-8"	
e11(E)	10	#4	3'-9"	
t(E)	256	#4	9'-8"	
w(E)	200	#5	28'-5"	
Concrete Structures			Cu. Yd.	39.2
Concrete Superstructure			Cu. Yd.	5.8
Bridge Deck Grooving			Sq. Yd.	315
Concrete Superstructure (Approach Slab)			Cu. Yd.	143.0
Reinforcement Bars, Epoxy Coated			Pound	64,150

* Cost included with Concrete Superstructure (Approach Slab).

MODEL: Default
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USER NAME	=	DESIGNED	- E.M. Lagemann	REVISED	-
		CHECKED	- A.H. Morinaga-Mansilla	REVISED	-
PLOT SCALE	=	DRAWN	- E.M. Lagemann	REVISED	-
PLOT DATE	=	CHECKED	- A.H. Morinaga-Mansilla	REVISED	-

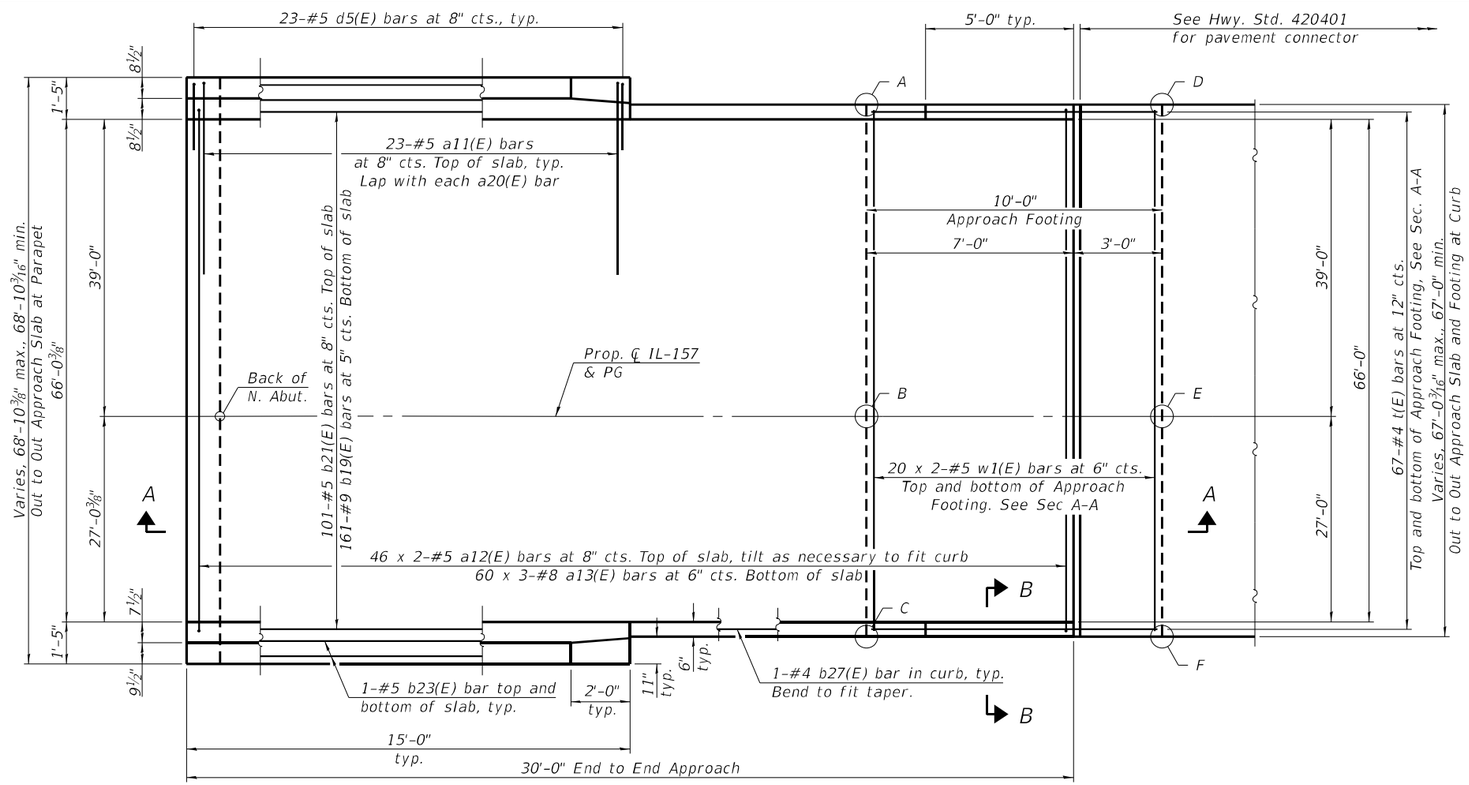
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB V
STRUCTURE NO. 060-0229

SHEET 23 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	165
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



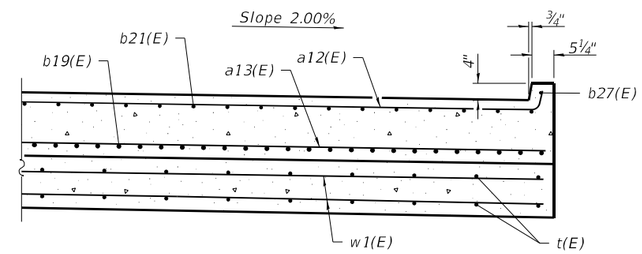
PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

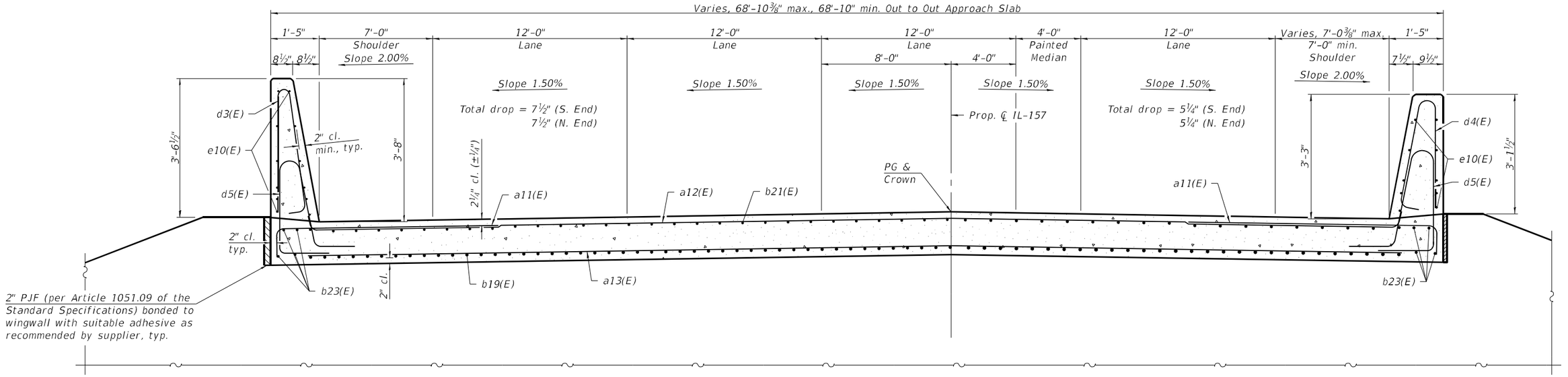
Point/ Location	Station	Offset	Top	Bottom
A	585+60.67	-39.50'	446.21	445.38
B	585+60.67	0.00'	446.84	446.01
C	585+60.67	27.50'	446.39	445.56
D	585+70.67	-39.50'	446.26	445.43
E	585+70.67	0.00'	446.89	446.06
F	585+70.67	27.50'	446.44	445.61

MINIMUM BAR LAP

#5(E) bar = 3'-6"
#8(E) bar = 4'-9"



SECTION B-B



CROSS SECTION - NEAR ABUTMENT

(Looking North)

Notes:
For Section A-A, see sheet 25 of 41.
Bars indicated thus 46 x 2-#5 etc. indicates 46 lines of bars with 2 lengths per line.

MODEL: Default
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USER NAME	=	DESIGNED	- T.S. Friederich	REVISED	-
		CHECKED	- E.M. Lagemann	REVISED	-
PLOT SCALE	=	DRAWN	- T.S. Friederich	REVISED	-
PLOT DATE	=	CHECKED	- A.H. Morinaga Mansilla	REVISED	-

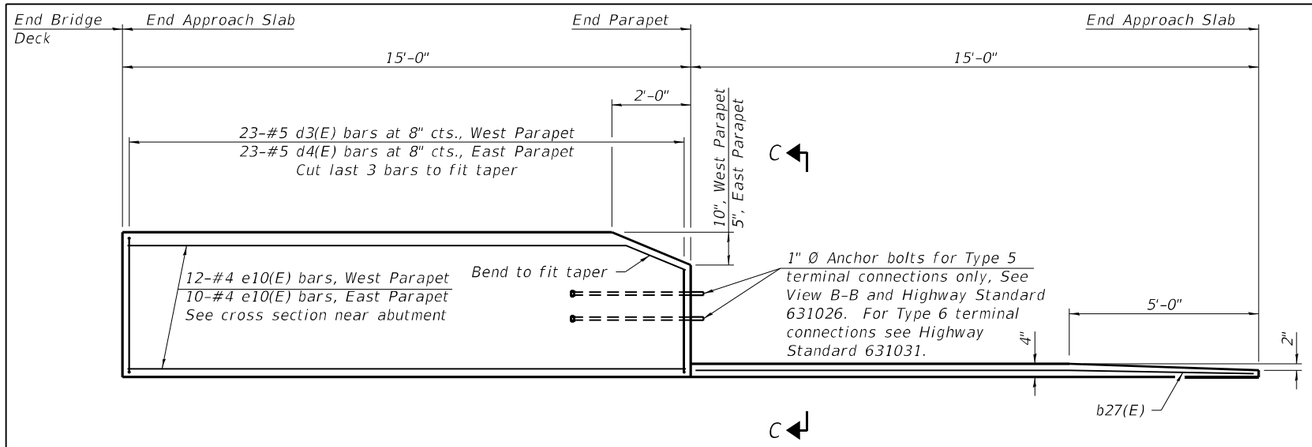
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRIDGE APPROACH SLAB I
STRUCTURE NO. 060-0229

SHEET 24 OF 41 SHEETS

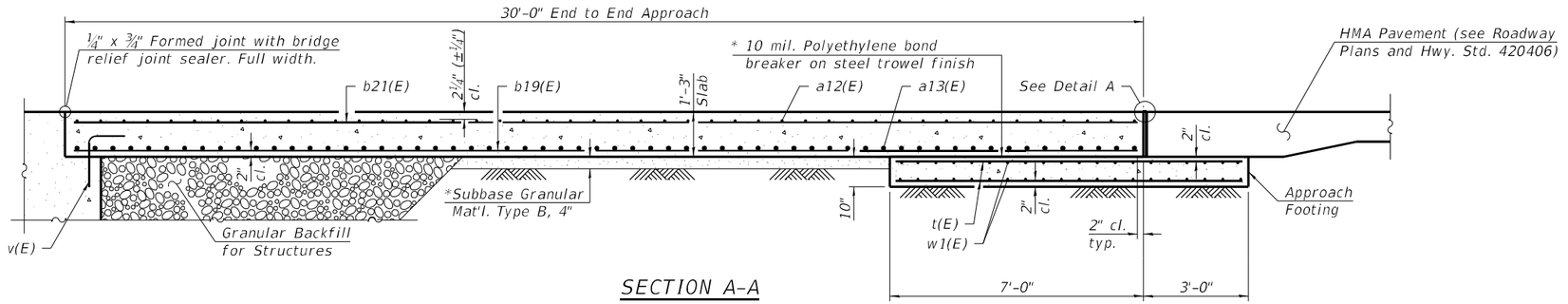
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	166
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

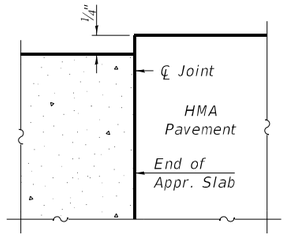


INSIDE ELEVATION OF PARAPET AND CURB

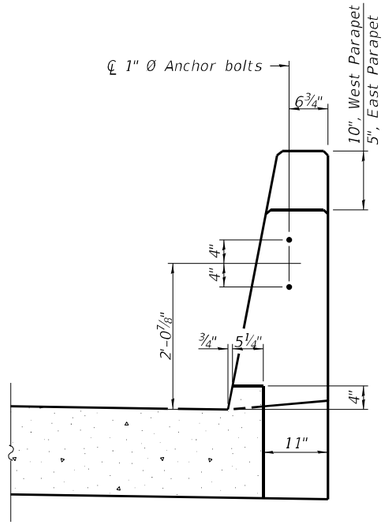
Notes:
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 41.



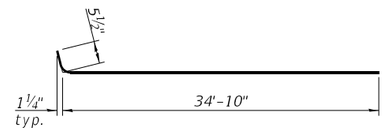
SECTION A-A



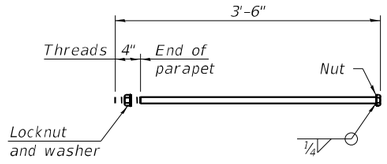
DETAIL A



VIEW C-C



BAR a12(E)



*1" Ø ANCHOR BOLT

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a11(E)	46	#5	7'-4"	
a12(E)	92	#5	35'-5"	
a13(E)	180	#8	25'-5"	
b19(E)	161	#9	29'-8"	
b21(E)	101	#5	29'-8"	
b23(E)	8	#5	14'-8"	
b27(E)	2	#4	14'-8"	
d3(E)	23	#5	7'-0"	
d4(E)	23	#5	6'-5"	
d5(E)	46	#5	8'-6"	
e10(E)	22	#4	14'-8"	
t(E)	134	#4	9'-8"	
w1(E)	80	#5	35'-0"	
Concrete Structures			Cu. Yd.	20.7
Concrete Superstructure			Cu. Yd.	4.1
Bridge Deck Grooving			Sq. Yd.	213
Concrete Superstructure (Approach Slab)			Cu. Yd.	94.5
Reinforcement Bars, Epoxy Coated			Pound	40,210

Notes:
For Location of Section A-A, see sheet 24 of 41.
For a11(E), d3(E), d4(E), and d5(E) bar bending diagrams, see sheets 15 and 23 of 41.

MODEL: Default
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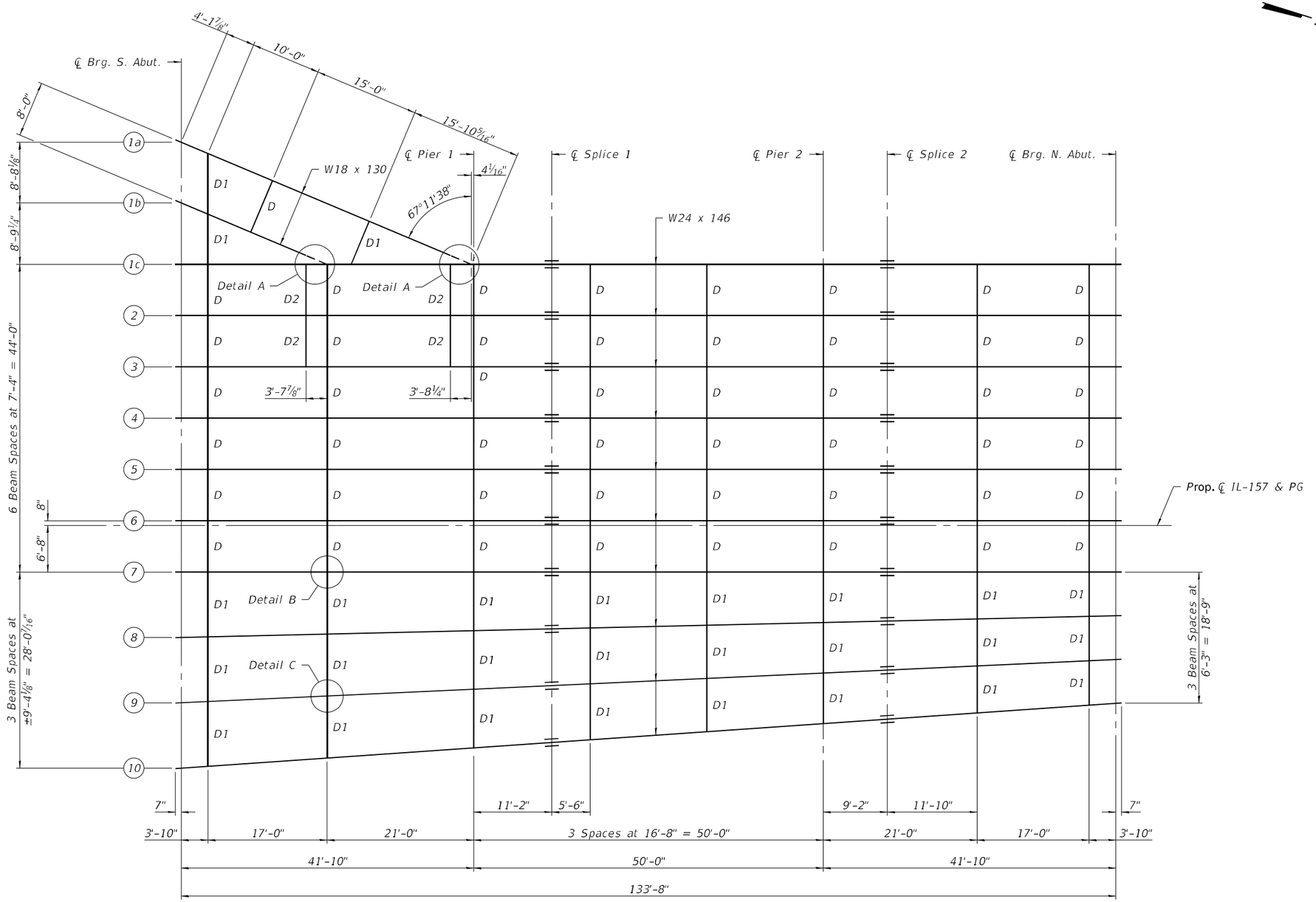
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		CHECKED -	E.M. Lagemann	REVISED -	
PLOT SCALE =		DRAWN -	T.S. Friederich	REVISED -	
PLOT DATE =		CHECKED -	A.H. Morinaga Mansilla	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRIDGE APPROACH SLAB II
STRUCTURE NO. 060-0229
SHEET 25 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	167
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

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FRAMING PLAN

Notes:
All diaphragms between beams shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
For Details A thru C, see sheet 28 of 41.

MODEL: Default
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	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - E.M. Lagemann	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 060-0229
SHEET 26 OF 41 SHEETS

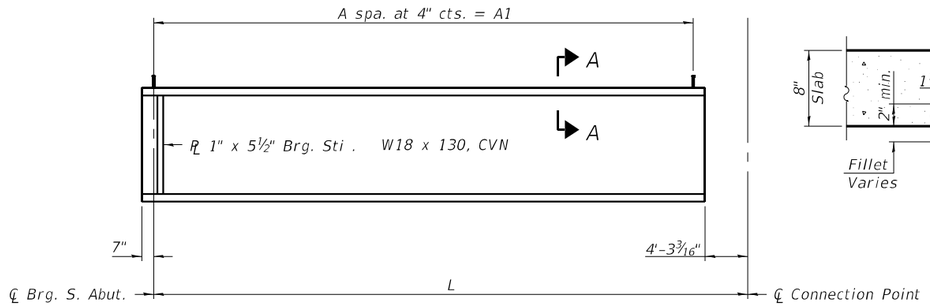
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	168
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

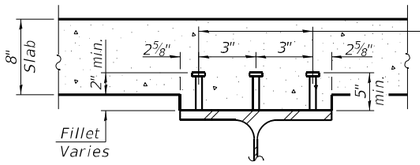
*TOP OF BEAM ELEVATIONS

Beam	℄ Brg. S. Abut.	Beam 1b Connection	Beam 1a Connection	℄ Pier 1	℄ Splice 1	℄ Pier 2	℄ Splice 2	℄ Brg. N. Abut.
1a	446.12	---	446.18	---	---	---	---	---
1b	445.84	446.08	---	---	---	---	---	---
1c	445.98	446.08	446.18	446.18	446.23	446.43	446.48	446.64
2	446.10	---	---	446.31	446.37	446.57	446.61	446.78
3	446.21	---	---	446.42	446.48	446.68	446.72	446.89
4	446.32	---	---	446.53	446.59	446.79	446.83	447.00
5	446.43	---	---	446.64	446.70	446.90	446.94	447.11
6	446.54	---	---	446.75	446.81	447.01	447.05	447.22
7	446.45	---	---	446.66	446.72	446.92	446.96	447.13
8	446.31	---	---	446.54	446.60	446.81	446.86	447.03
9	446.15	---	---	446.40	446.46	446.69	446.75	446.94
10	445.96	---	---	446.23	446.30	446.55	446.61	446.82

*For Fabrication Only

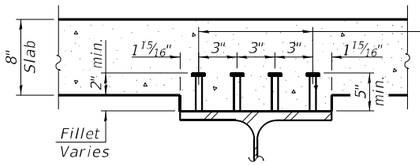


ELEVATION – BEAMS 1a AND 1b



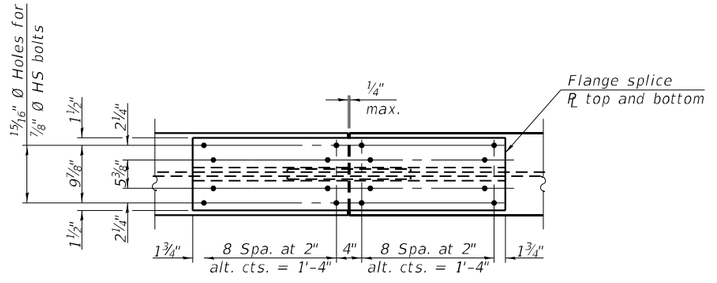
¾" Ø Granular or solid flux filled headed studs, automatically end welded to flange. (531 Required)

SECTION A–A

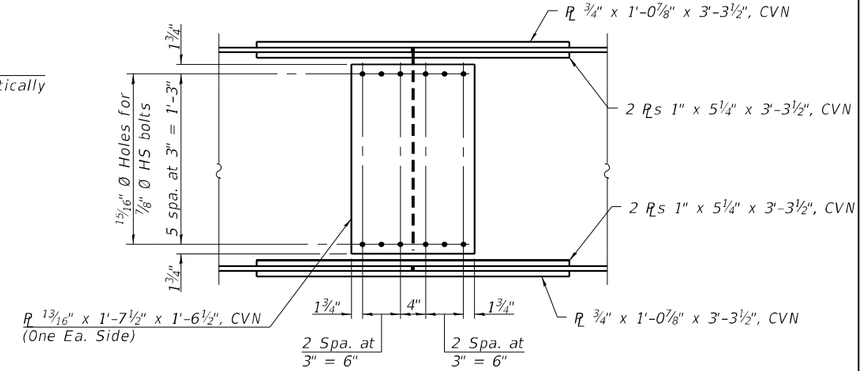


¾" Ø Granular or solid flux filled headed studs, automatically end welded to flange. (8,160 Required)

SECTION B–B



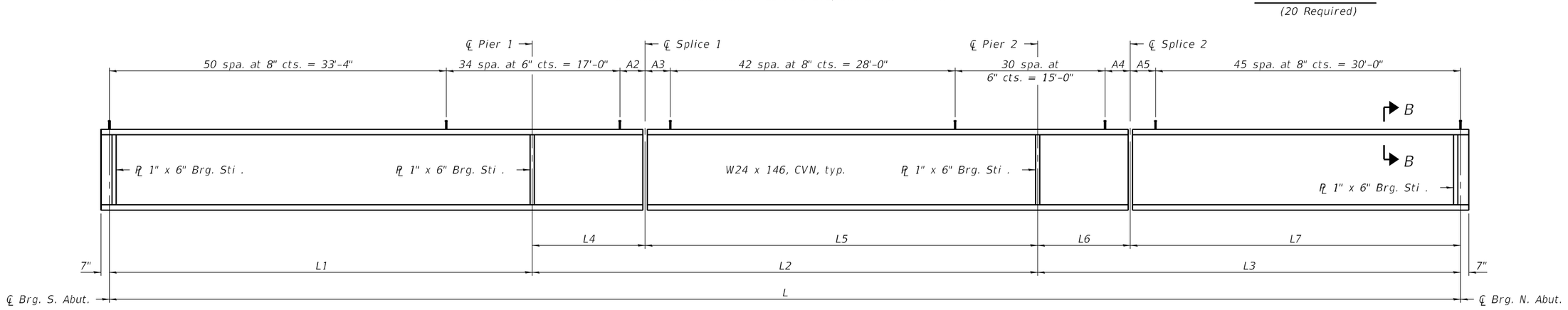
PLAN



ELEVATION

SPLICE DETAIL
(20 Required)

Notes:
Structural steel for all Beams, Brg. Stiffeners, splices, and Diaphragm D2 shall be AASHTO M270, Gr. 50.
For location of dimensions L8 thru L12, see sheet 4 of 41.



ELEVATION – BEAM 1c THRU BEAM 10

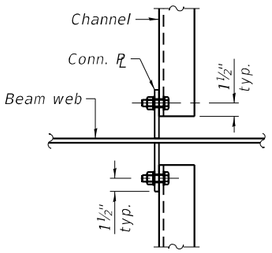
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

TABLE OF "L" DIMENSIONS

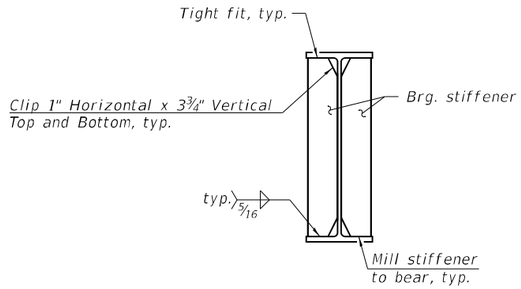
Beam	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
1a	45'-0 3/16"	---	---	---	---	---	---	---	1'-11 7/8"	---	±11'-3 1/16"	---	---
1b	22'-7 9/16"	---	---	---	---	---	---	---	1'-11 7/8"	---	±5'-7 7/8"	---	---
1c	133'-8"	41'-10"	50'-0"	41'-10"	11'-2"	38'-10"	9'-2"	32'-8"	1'-10"	1'-10"	10'-5½"	12'-6"	10'-5½"
2 thru 7	133'-8"	41'-10"	50'-0"	41'-10"	11'-2"	38'-10"	9'-2"	32'-8"	1'-10"	1'-10"	10'-5½"	12'-6"	10'-5½"
8	133'-8 7/16"	41'-10⅛"	50'-0 3/16"	41'-10⅛"	11'-2 1/16"	38'-10⅛"	9'-2"	32'-8 1/16"	1'-10"	1'-10"	±10'-5½"	±12'-6 1/16"	±10'-5½"
9	133'-9¾"	41'-10 9/16"	50'-0⅜"	41'-10 9/16"	11'-2⅛"	38'-10½"	9'-2⅛"	32'-8 7/16"	1'-10"	1'-10"	±10'-5⅝"	±12'-6⅛"	±10'-5⅝"
10	133'-11 13/16"	41'-11 3/16"	50'-1 7/16"	41'-11 3/16"	11'-2 5/16"	38'-11⅛"	9'-2¼"	32'-8 15/16"	1'-10 1/16"	1'-10 1/16"	±10'-5 13/16"	±12'-6⅜"	±10'-5 13/16"

TABLE OF "A" DIMENSIONS

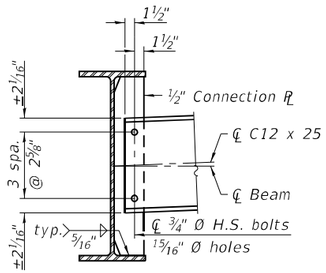
Beam	A	A1	A2	A3	A4	A5
1a	121	40'-4"	---	---	---	---
1b	54	18'-0"	---	---	---	---
1c	---	---	2'-8"	2'-6"	2'-6"	2'-8"
2 thru 6	---	---	2'-8"	2'-6"	2'-6"	2'-8"
7	---	---	2'-8"	2'-6"	2'-6"	2'-8"
8	---	---	2'-8 1/4"	2'-6 1/16"	2'-6 1/16"	2'-8 1/16"
9	---	---	2'-8 11/16"	2'-6 5/16"	2'-6 5/16"	2'-8 7/16"
10	---	---	2'-9½"	2'-6 11/16"	2'-6 11/16"	2'-8 13/16"



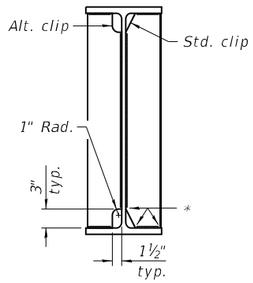
DETAIL B



BEARING STIFFENER DETAIL



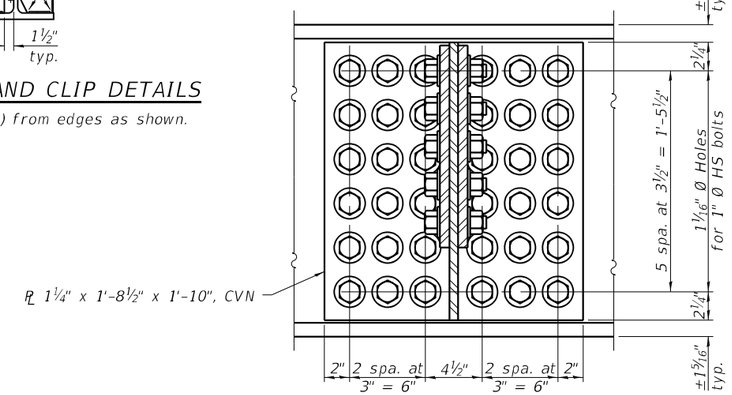
INTERIOR DIAPHRAGM



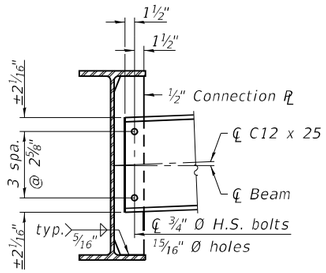
WELD LIMITS AND CLIP DETAILS

* Stop welds ¼" (±⅛") from edges as shown. Typical.

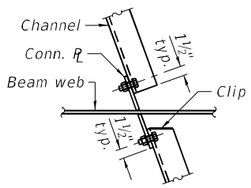
DIAPHRAGM D DETAILS
(49 required)



SECTION B-B



INTERIOR DIAPHRAGM



DETAIL C

DIAPHRAGM D1 DETAILS
(27 required)

Notes:

The bend line of the bent plate for the Beam 1a and 1b connection shall be perpendicular to final rolling.

Fasteners for Beams 1a and 1b connection, and Diaphragm D2 connection shall be ASTM F 3125 Grade A490 Type 1, mechanically galvanized bolts in painted areas.

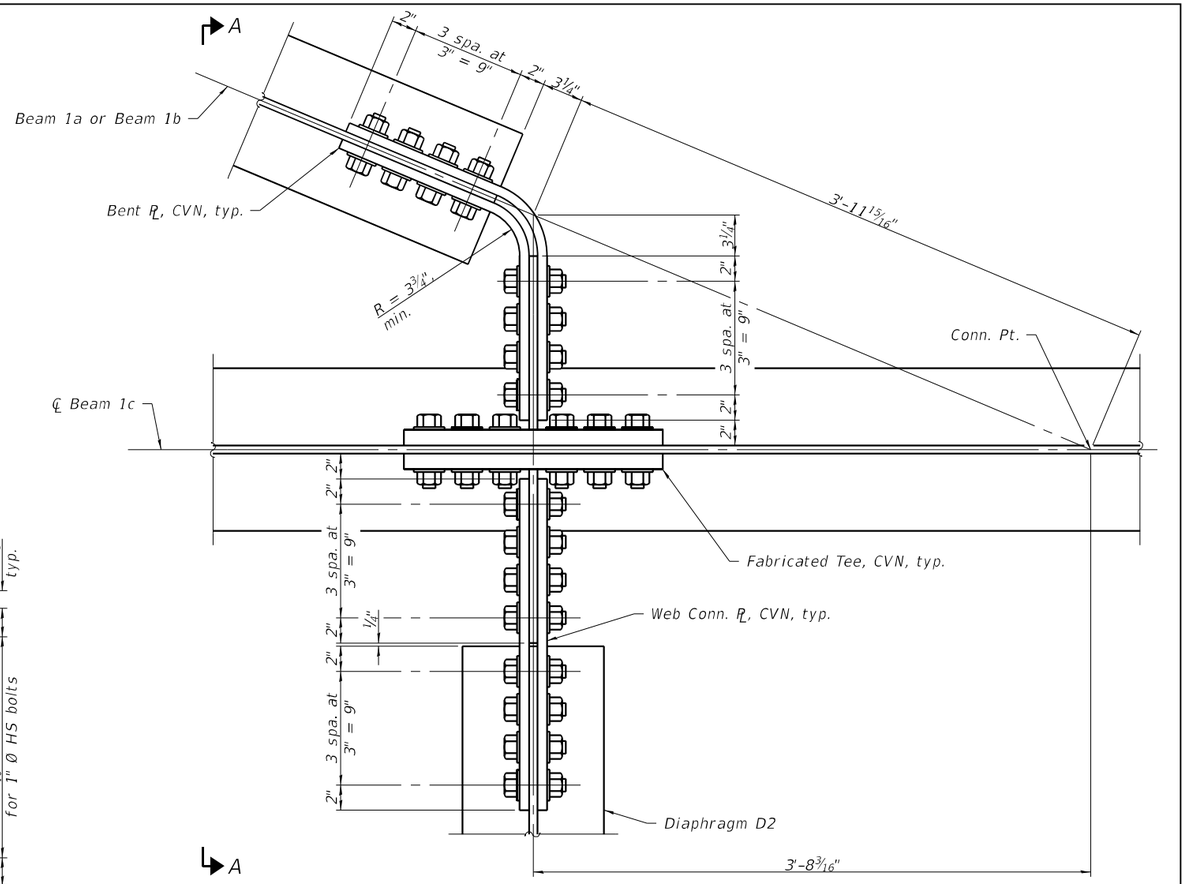
Structural steel for bent plates of Beams 1a and 1b connection shall be AASHTO M270 Grade 70W.

Structural steel for Diaphragms D2, fabricated tee, and web connection plates, shall be AASHTO M270 Grade 50.

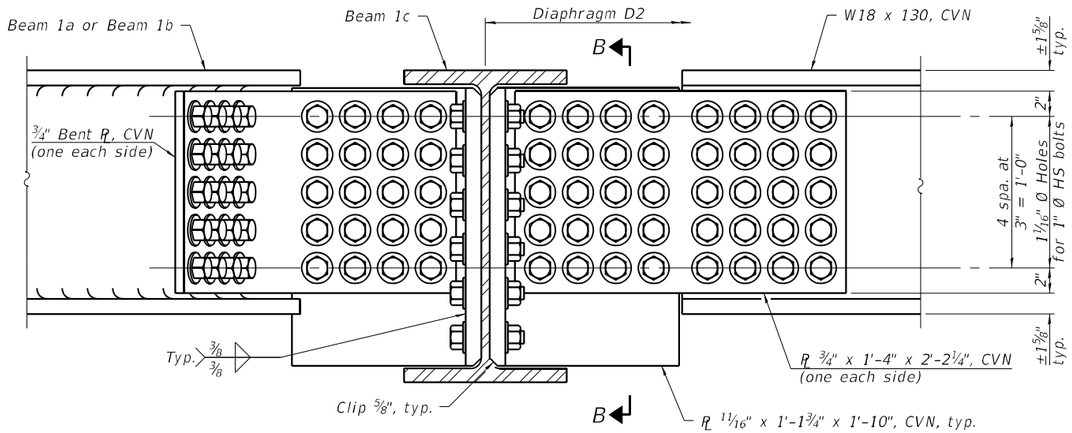
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

All diaphragms between beams shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.

For location of Details A thru C, see sheet 26 of 41.



DETAIL A



SECTION A-A AND DIAPHRAGM D2 DETAILS
(4 Diaphragm D2 required)

FULL LENGTH BEAM MOMENT TABLE

		0.4 Span 1				Pier 1				0.5 Span 2				Pier 2				0.6 Span 3			
		Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10
I_s	(in^4)	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580
$I_c(n)$	(in^4)	12,827	13,074	13,657	13,163	12,827	13,074	13,462	13,046	12,827	13,074	13,253	12,925	12,827	13,074	13,024	12,798	12,827	13,074	12,773	12,665
$I_c(3n)$	(in^4)	9,445	9,691	10,297	9,781	9,445	9,691	10,091	9,663	9,445	9,691	9,873	9,542	9,445	9,691	9,641	9,418	9,445	9,691	9,393	9,288
$I_c(cr)$	(in^4)	———	———	———	———	6,390	———	———	———	———	———	———	———	6,390	———	———	———	———	———	———	———
S_s	(in^3)	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371
$S_c(n)$	(in^3)	548	552	560	553	548	552	557	551	548	552	554	549	548	552	551	547	548	552	547	546
$S_c(3n)$	(in^3)	496	500	510	501	496	500	507	499	496	500	503	497	496	500	499	495	496	500	495	493
$S_c(cr)$	(in^3)	———	———	———	———	428	———	———	———	———	———	———	———	428	———	———	———	———	———	———	———
DC1	(k/')	1.028	0.906	1.069	1.101	1.028	0.906	1.011	1.071	1.028	0.906	0.973	1.043	1.028	0.906	0.895	1.014	1.028	0.906	0.837	0.984
M_{DC1}	('k)	205.7	114.2	137.7	139.8	-266.3	-196.1	-221.7	-232.4	88.6	93.6	98.6	107.2	-209.7	-197.4	-192.7	-218.6	135.4	116.0	104.9	124.3
DC2	(k/')	2.000	0.150	0.179	0.179	3.500	-0.250	0.179	0.179	0.600	0.030	0.179	0.179	0.700	-0.090	0.179	0.179	0.600	0.030	0.179	0.179
M_{DC2}	('k)	52.3	3.4	22.5	22.6	-163.5	24.7	-38.2	-38.3	52.2	-2.4	18.3	18.4	-127.3	12.1	-37.5	-37.6	84.7	1.0	22.8	22.8
DW	(k/')	0.267	0.367	0.454	0.308	0.267	0.367	0.425	0.293	0.267	0.367	0.396	0.278	0.267	0.367	0.367	0.264	0.267	0.367	0.338	0.249
M_{DW}	('k)	33.4	45.9	57.6	39.4	-56.7	-77.9	-90.1	-63.0	27.2	37.4	40.2	28.7	-55.6	-76.4	-73.8	-54.5	33.8	46.4	41.0	31.2
LLDF		0.691	0.691	0.798	0.798	0.680	0.680	0.747	0.747	0.670	0.670	0.699	0.699	0.680	0.680	0.672	0.672	0.691	0.691	0.643	0.643
M^{LL+IM}	('k)	449.4	449.8	522.0	520.7	-477.1	-477.4	-530.2	-530.3	416.5	416.6	436.3	440.1	-453.9	-453.6	-451.3	-452.5	425.2	425.1	397.1	400.1
M_u	('k)	1,159.1	1,003.0	1,200.2	1,173.3	-1,457.2	-1,166.6	-1,387.9	-1,360.9	945.7	899.2	970.0	970.2	-1,299.0	-1,140.0	-1,188.2	-1,193.9	1,069.9	959.8	916.1	930.9
$\emptyset_f M_n$	('k)	2,764.7	2,839.2	2,901.7	2,853.6	———	———	———	———	2,764.7	2,839.2	2,885.2	2,767.3	———	———	———	———	2,764.7	2,839.2	2,749.4	2,681.4
f_s DC1	(ksi)	6.65	3.69	4.45	4.52	-8.61	-6.34	-7.17	-7.52	2.87	3.03	3.19	3.47	-6.78	-6.38	-6.23	-7.07	4.38	3.75	3.39	4.02
f_s DC2	(ksi)	1.27	0.08	0.53	0.54	-3.96	0.59	-0.90	-0.92	-1.26	-0.06	0.44	0.44	-3.08	0.29	-0.90	-0.91	2.05	0.02	0.55	0.56
f_s DW	(ksi)	0.81	1.10	1.35	0.94	-1.37	-1.87	-2.13	-1.51	0.66	0.90	0.96	0.69	-1.35	-1.83	-1.77	-1.32	0.82	1.11	0.99	0.76
f_s (LL+IM)	(ksi)	9.84	9.79	11.18	11.30	-13.36	-13.44	-14.54	-14.73	9.12	9.06	9.45	9.61	-12.71	-12.77	-12.39	-12.48	9.31	9.25	8.71	8.80
f_s (Service II)	(ksi)	21.52	17.60	20.87	20.70	-31.32	-25.09	-29.11	-29.09	16.65	15.65	16.87	17.10	-27.74	-24.53	-25.01	-25.53	19.36	16.91	16.26	16.78
Service II Resistance	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
f_s (Strength I)	(ksi)	———	———	———	———	-41.16	-33.51	-38.74	-38.59	———	———	———	———	-36.60	-32.71	-33.26	-33.80	———	———	———	———
$\emptyset_f F_n$	(ksi)	———	———	———	———	50.00	50.00	50.00	50.00	———	———	———	———	50.00	50.00	50.00	50.00	———	———	———	———
V_f	(k)	16.5	16.5	19.1	16.6	24.5	24.5	25.5	21.8	17.1	17.1	18.5	15.8	22.8	22.7	22.4	19.3	17.4	16.5	15.9	12.7

FULL LENGTH BEAM REACTION TABLE

	South Abutment				Pier 1				Pier 2				North Abutment			
	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10
LLDF	0.655	0.767	0.907	0.695	0.655	0.767	0.840	0.644	0.655	0.767	0.759	0.581	0.655	0.767	0.689	0.528
OCF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R_{DC1} (k)	21.1	14.6	17.7	17.8	80.3	47.4	53.2	55.8	52.0	47.6	46.7	52.6	16.8	14.7	13.3	15.7
R_{DC2} (k)	-0.2	1.0	2.8	2.9	62.8	-9.5	9.2	9.2	32.7	-4.8	9.1	9.1	10.9	-1.3	2.9	2.9
R_{DW} (k)	4.2	5.8	7.3	5.0	13.6	18.7	21.6	15.1	13.6	18.6	18.2	13.4	4.2	5.8	5.1	3.9
R^{LL} (k)	40.4	47.3	59.8	45.8	77.9	91.3	100.1	76.7	76.5	89.5	88.7	68.0	42.2	49.4	44.3	34.0
R_{im} (k)	10.7	12.5	16.0	12.2	18.1	21.2	23.3	17.8	17.9	20.9	20.7	15.9	11.4	13.3	11.9	9.1
R_{Total} (Strength I)(Impact) (k)	121.7	132.9	169.0	134.8	367.4	272.3	326.2	269.3	291.3	274.7	288.5	244.1	134.7	135.3	126.2	104.5
R_{Total} (Strength I)(No Impact) (k)	103.1	111.1	141.2	113.4	335.7	235.1	285.5	238.1	260.1	238.1	252.3	216.3	114.8	112.0	105.4	88.5

Note:
For definition of terms, see sheet 30 of 41.

MODEL: Default
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I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and 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.).

M_u : Strength I load combination of factored design moments (kip-ft.). $1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Factored nominal flexural resistance of the section determined as speci ed in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (L + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$ or $M_{L+IM} / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (L + IM) + f_f /2

Service II Resistance: Composite ($0.95R_hF_{yf}$) or noncomposite ($0.80R_hF_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).

f_s (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (L + IM) + f_f /3

$\phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

V_f : Maximum factored shear range in span computed according to Article 6.10.10.

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): Strength I load combination of factored design reactions (kip).
$1.25\ (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75\ (R_L + R_{IM})$

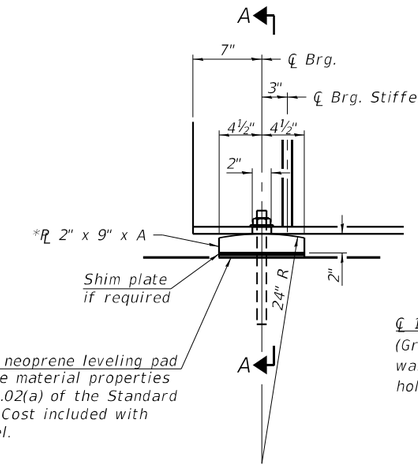
R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
$1.25\ (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75\ (R_L)$

PARTIAL LENGTH BEAM MOMENT TABLE		0.5 Span 1	
		Beam 1a	Beam 1b
I_s	(in⁴)	2,460	2,460
$I_c(n)$	(in⁴)	7,993	8,230
$I_c(3n)$	(in⁴)	5,812	6,048
$I_c(cr)$	(in⁴)	———	———
S_s	(in³)	256	256
$S_c(n)$	(in³)	414	419
$S_c(3n)$	(in³)	369	374
$S_c(cr)$	(in³)	———	———
DC1	(k/')	1.112	0.958
M_{DC1}	('k)	271.5	62.1
DC2	(k/')	0.925	0.700
M_{DC2}	('k)	180.0	69.6
DW	(k/')	0.024	0.115
M_{DW}	('k)	6.1	7.4
LLDF		0.726	0.822
M_{L+IM}	('k)	627.4	288.5
M_u	('k)	1,671.4	680.4
$\phi_f M_n$	('k)	2,056.3	2,160.3
f_s DC1	(ksi)	12.73	2.91
f_s DC2	(ksi)	5.85	2.23
f_s DW	(ksi)	0.20	0.24
f_s (L +IM)	(ksi)	18.18	8.26
f_s (Service II)	(ksi)	42.40	16.11
Service II Resistance	(ksi)	47.50	47.50
f_s (Strength I)	(ksi)	———	———
$\phi_f F_n$	(ksi)	———	———
V_f	(k)	38.3	34.5

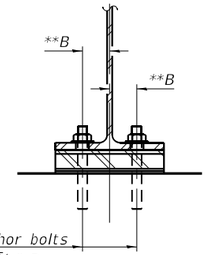
PARTIAL LENGTH BEAM REACTION TABLE		South Abutment	
		Beam 1a	Beam 1b
LLDF		0.700	0.814
OCF		1.00	1.00
R_{DC1}	(k)	24.4	11.0
R_{DC2}	(k)	23.6	10.3
R_{DW}	(k)	0.5	1.3
R_L	(k)	50.0	42.9
R_{Im}	(k)	13.2	12.2
R_{Total} (Strength I)(Impact)	(k)	171.3	125.2
R_{Total} (Strength I)(No Impact)	(k)	148.30	103.8

* A = 11¼" (Beam 1a and Beam 1b)
A = 12⅞" (Beam 1c and Beams 2 thru 10)

** B = 2¾" (Beam 1a and Beam 1b)
B = 3¼" (Beam 1c and Beams 2 thru 10)



⅛" Elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

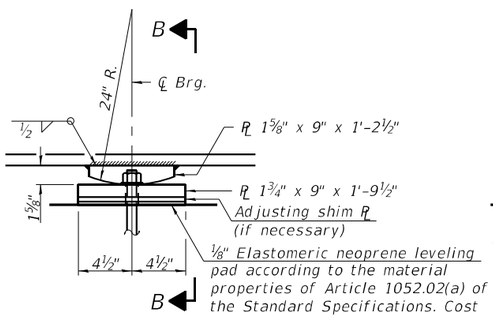


℄ 1" Ø x 12" All-thread anchor bolts (Grade 55) with 2¼"x 2¼"x 5⁄16" ℙ washer under nut. 1⅜"x 2" slotted hole in flange. 1½" Ø Holes in bearing plate.

SECTION A-A

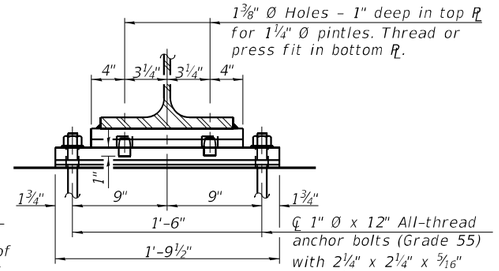
ELEVATION AT ABUTMENT

FIXED BEARING AT ABUTMENTS



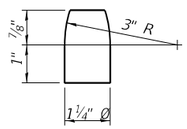
⅛" Elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT PIER



℄ 1" Ø x 12" All-thread anchor bolts (Grade 55) with 2¼" x 2¼" x 5⁄16" ℙ washer under nut. 1½" Ø Holes in bottom ℙ.

SECTION B-B



PINTLE

FIXED BEARING AT PIERS

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	84

Notes:
Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims, and placed as shown on bearing details.
The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

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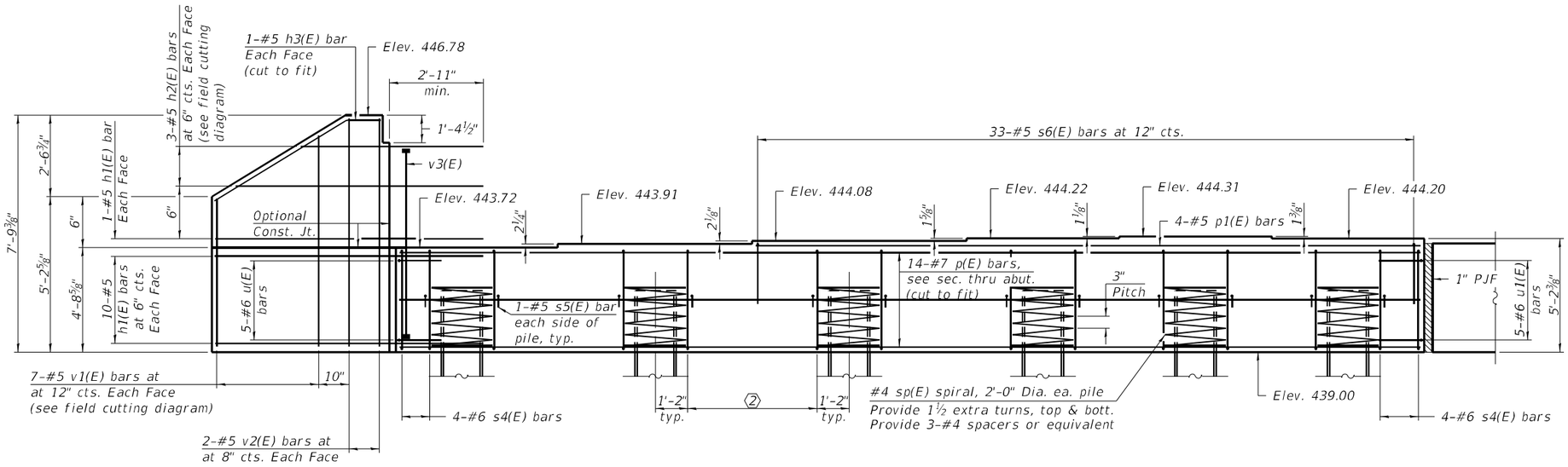
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PLOT SCALE = ____ | CHECKED - E.M. Lagemann | REVISED - ____
PLOT DATE = ____ | DRAWN - T.S. Friederich | REVISED - ____
CHECKED - E.M. Lagemann | REVISED - ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM DETAILS IV
STRUCTURE NO. 060-0229
SHEET 30 OF 41 SHEETS

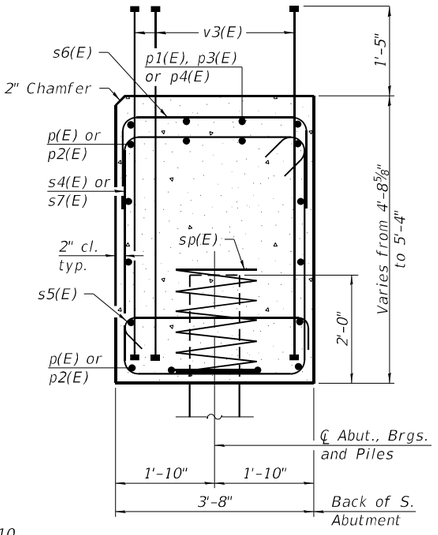
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

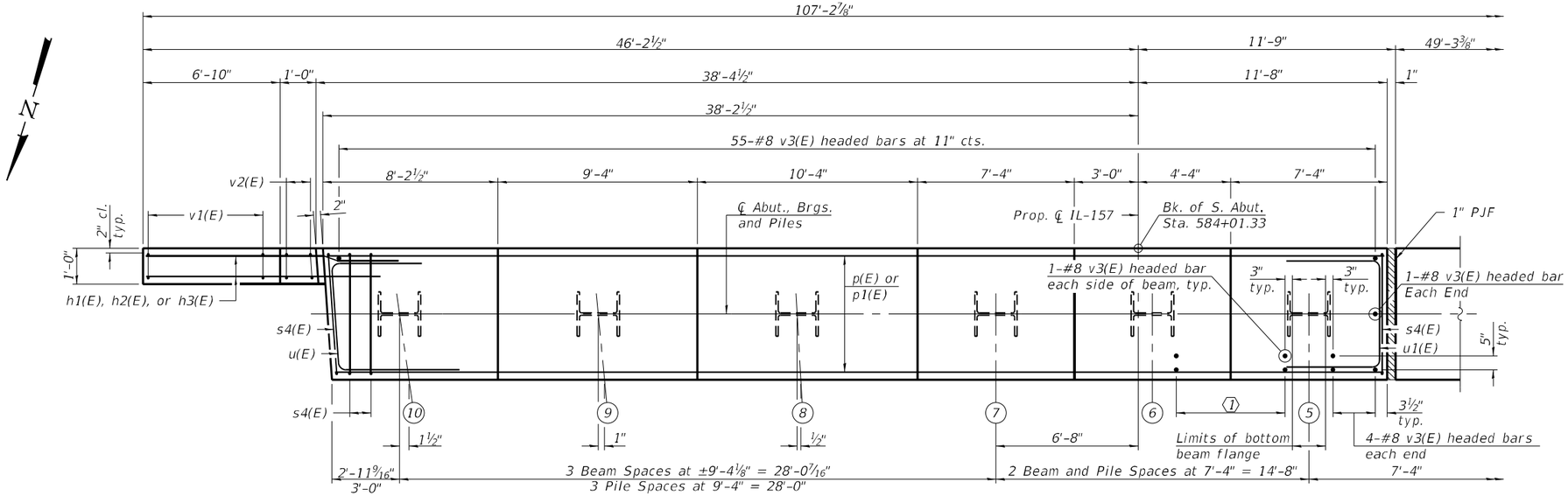


ELEVATION

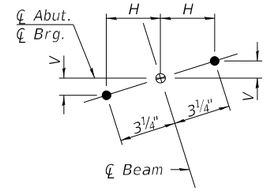
① 10-#8 v3(E) headed bars at ±11" cts. typ. btwn. Beams 7 thru 10.
8-#8 v3(E) headed bars at ±11" cts. typ. btwn. Beams 5 thru 7.
② 8-#6 s4(E) bars at 12" cts. typ. btwn. 9'-4" pile spacing
6-#6 s4(E) bars at 12" cts. typ. btwn. 7'-4" pile spacing



SEC. THRU ABUT.



PLAN



ANCHOR BOLT LAYOUT
BEAMS 5 THRU 10

TABLE OF VARIABLE DIMENSIONS

Beam	V	H
5 thru 7	0"	3¼"
8	1⁄16"	3¼"
9	⅛"	3¼"
10	¼"	3¼"

PILE DATA

Type:	HP14x117
Nominal Required Bearing:	361 kips
Factored Resistance Available:	167 kips
Est. Length:	84 ft.
No. Production Piles:	11
No. Test Piles:	1

Notes:
PJF (per Article 1051.09 of the Standard Specifications) shall be bonded between abutment caps with suitable adhesive as recommended by supplier. Cost included with Concrete Structures.
Pour steps monolithically with cap.
For west portion of South Abutment, Bill of Materials, and bar bending diagrams, see sheet 32 of 41.
For details of piles, see sheet 37 of 41.

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USER NAME = ____
PLOT SCALE = ____
PLOT DATE = ____

DESIGNED - T.S. Friederich
CHECKED - E.M. Lagemann
DRAWN - E.M. Lagemann
CHECKED - T.S. Friederich

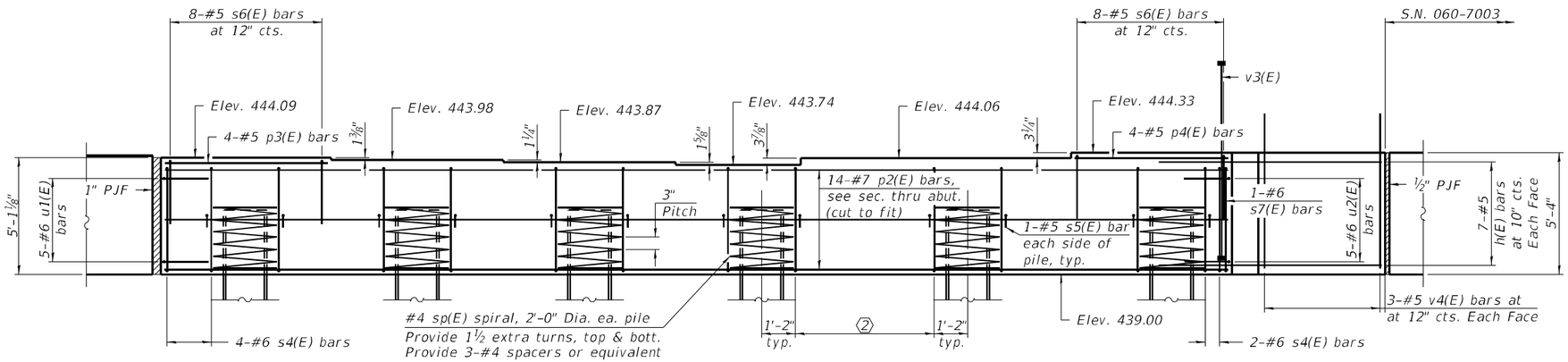
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REVISED - ____
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REVISED - ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS I
STRUCTURE NO. 060-0229
SHEET 31 OF 41 SHEETS

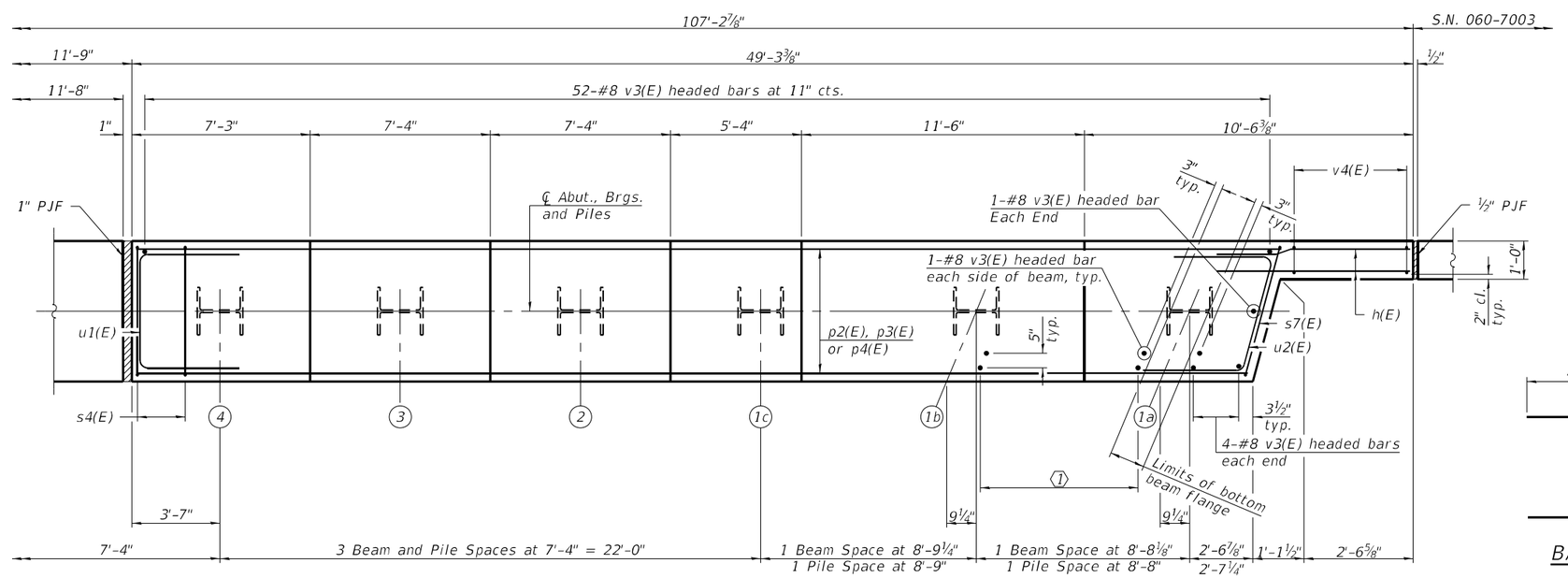
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		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

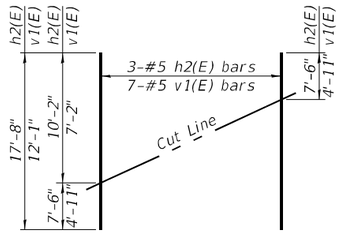


ELEVATION

1 9-#8 v3(E) headed bars at ±11" cts. typ. btwn. Beams 1a thru 1b.
8-#8 v3(E) headed bars at ±11" cts. typ. btwn. Beams 1b thru 4.
2 8-#6 s4(E) bars at ±11" cts. typ. btwn. 8'-8" and 8'-9" pile spacings
6-#6 s4(E) bars at 12" cts. typ. btwn. 7'-4" pile spacing

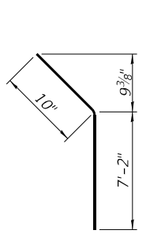


PLAN

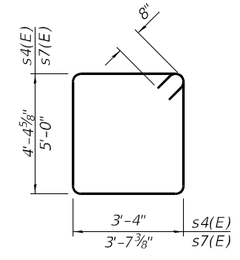


FIELD CUTTING DIAGRAM

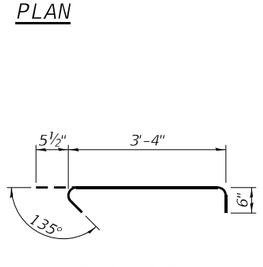
Order h2(E) and v1(E) full length. Cut as shown and use remainder of bars in opposite face of wing.



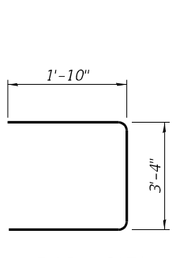
BAR h3(E)



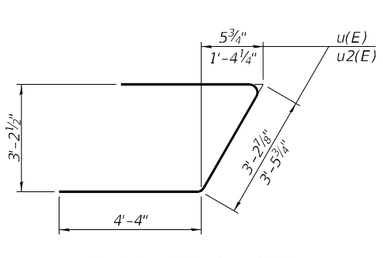
BARS s4(E) & s7(E)



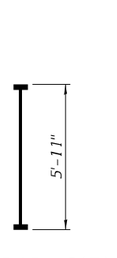
BAR s5(E)



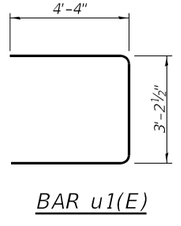
BAR s6(E)



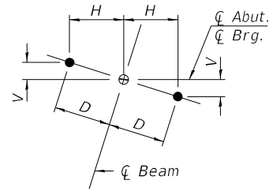
BARS u(E) & u2(E)



BAR v3(E)



BAR u1(E)



ANCHOR BOLT LAYOUT BEAMS 1a THRU 4

TABLE OF VARIABLE DIMENSIONS

Beam	D	V	H
1a & 1b	2 3/4"	1 1/16"	2 9/16"
1c thru 4	3 1/4"	0"	3 1/4"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	6'-0"	
h1(E)	22	#5	10'-11"	
h2(E)	3	#5	17'-8"	
h3(E)	2	#5	8'-0"	
p(E)	14	#7	49'-6"	
p1(E)	4	#5	32'-0"	
p2(E)	14	#7	46'-8"	
p3(E)	4	#5	6'-11"	
p4(E)	4	#5	7'-11"	
s4(E)	84	#6	16'-10"	
s5(E)	24	#5	4'-4"	
s6(E)	49	#5	7'-0"	
s7(E)	1	#6	18'-7"	
* sp(E)	12	#4	2'-0"	
u(E)	5	#6	11'-11"	
u1(E)	10	#6	11'-11"	
u2(E)	5	#6	12'-2"	
v1(E)	7	#5	12'-1"	
v2(E)	4	#5	7'-5"	
v3(E)	238	#8	5'-11"	
v4(E)	6	#5	6'-3"	
Structure Excavation	Cu. Yd.		218	
Concrete Structures	Cu. Yd.		68.3	
Reinforcement bars, Epoxy Coated	Pound		10,270	
Furnishing Steel Piles HP14x117	Foot		924	
Driving Piles	Foot		924	
Test Pile Steel HP14x117	Each		1	

* Length is height of spiral.

Notes:

PJF (per Article 1051.09 of the Standard Specification) shall be bonded between abutment caps with suitable adhesive as recommended by supplier. Cost included with Concrete Structures.

Pour steps monolithically with cap.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

For Pile Data, Section Thru Abutment, and east portion of South Abutment, see sheet 31 of 41.

For details of piles see sheet 37 of 41.

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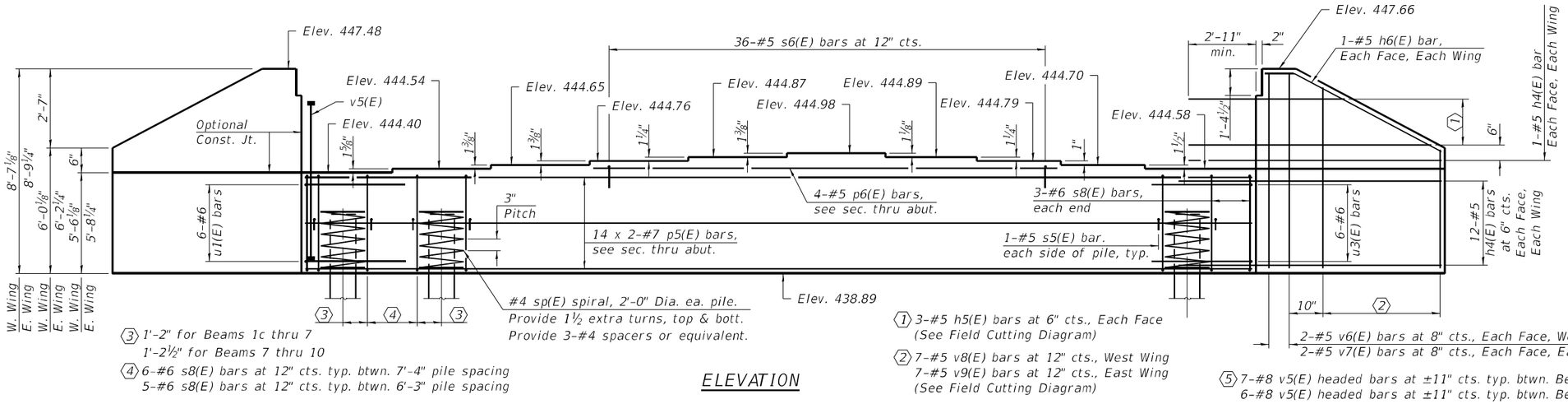
USER NAME =	DESIGNED - T.S. Friederich	REVISED -	
	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -	
PLOT DATE =	CHECKED - T.S. Friederich	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS II
STRUCTURE NO. 060-0229
SHEET 32 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	174
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592



③ 1'-2" for Beams 1c thru 7
1'-2½" for Beams 7 thru 10

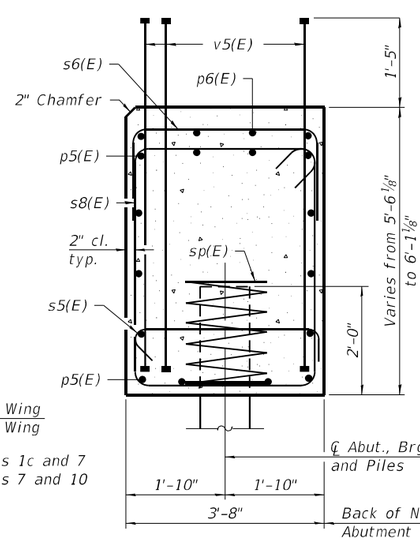
④ 6-#6 s8(E) bars at 12" cts. typ. btwn. 7'-4" pile spacing
5-#6 s8(E) bars at 12" cts. typ. btwn. 6'-3" pile spacing

① 3-#5 h5(E) bars at 6" cts., Each Face (See Field Cutting Diagram)

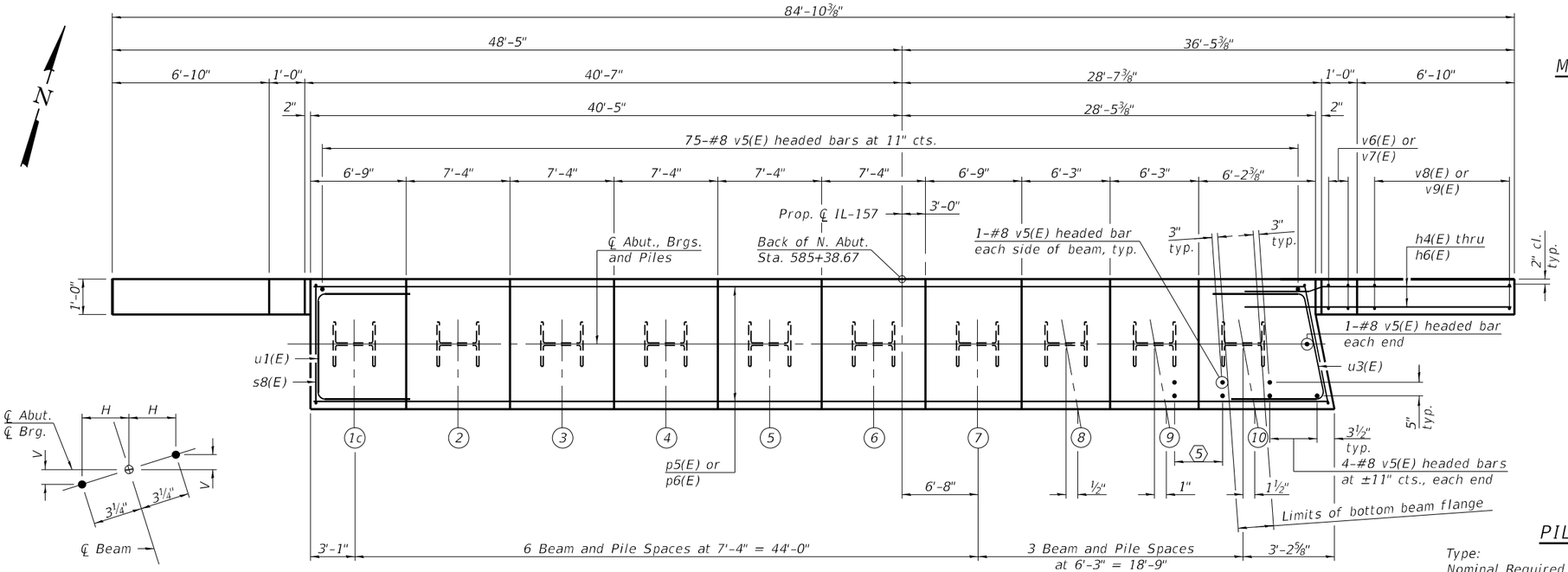
② 7-#5 v8(E) bars at 12" cts., West Wing
7-#5 v9(E) bars at 12" cts., East Wing
(See Field Cutting Diagram)

⑤ 7-#8 v5(E) headed bars at ±11" cts. typ. btwn. Beams 1c and 7
6-#8 v5(E) headed bars at ±11" cts. typ. btwn. Beams 7 and 10

ELEVATION



SEC. THRU ABUT.

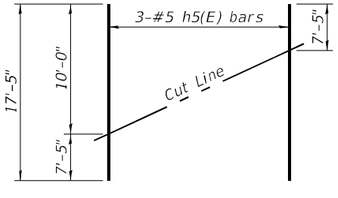


PLAN

ANCHOR BOLT LAYOUT BEAMS 1c THRU 10

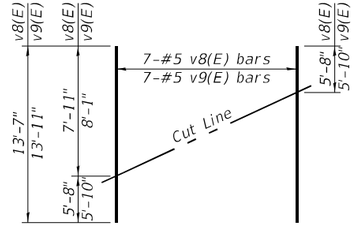
TABLE OF VARIABLE DIMENSIONS

Beam	V	H
1c thru 7	0"	3¼"
8	1/16"	3¼"
9	⅛"	3¼"
10	¼"	3¼"



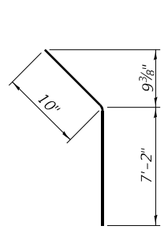
FIELD CUTTING DIAGRAM

Order h5(E) full length. Cut as shown and use remainder of bars in opposite wing.

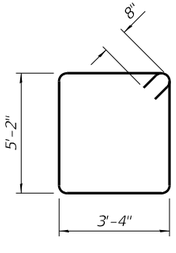


FIELD CUTTING DIAGRAM

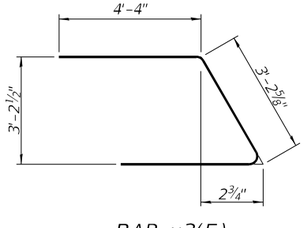
Order v8(E) and v9(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR h6(E)



BAR s8(E)



BAR u3(E)



BAR v5(E)
(Headed)

MINIMUM BAR LAP
#7(E) bar = 5'-0"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	52	#5	10'-9"	
h5(E)	6	#5	17'-5"	
h6(E)	4	#5	8'-0"	
p5(E)	28	#7	36'-11"	
p6(E)	4	#5	34'-8"	
s5(E)	20	#5	4'-4"	
s6(E)	36	#5	7'-0"	
s8(E)	57	#6	18'-4"	
* sp(E)	10	#4	2'-0"	
u1(E)	6	#6	11'-11"	
u3(E)	6	#6	11'-11"	
v5(E)	165	#8	6'-9"	
v6(E)	4	#5	8'-2"	
v7(E)	4	#5	8'-4"	
v8(E)	7	#5	13'-7"	
v9(E)	7	#5	13'-11"	
Structure Excavation		Cu. Yd.	187	
Concrete Structures		Cu. Yd.	59.1	
Reinforcement Bars, Epoxy Coated		Pound	8,380	
Furnishing Steel Piles HP14x117		Foot	828	
Driving Piles		Foot	828	
Test Pile HP14x117		Each	1	

* Length is height of spiral.

PILE DATA

Type:	HP14x117
Nominal Required Bearing:	277 kips
Factored Resistance Available:	152 kips
Est. Length:	92
No. Production Piles:	9
No. Test Piles:	1

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
Bars indicated thus 14 x 2-#7 etc. indicates 14 lines of bars with 2 lengths per line.
For s5(E), s6(E), and u1(E) bar bending diagrams, see sheet 32 of 41.
For Pile Details, see sheet 37 of 41.

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USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - E.M. Lagemann	REVISED - ____	

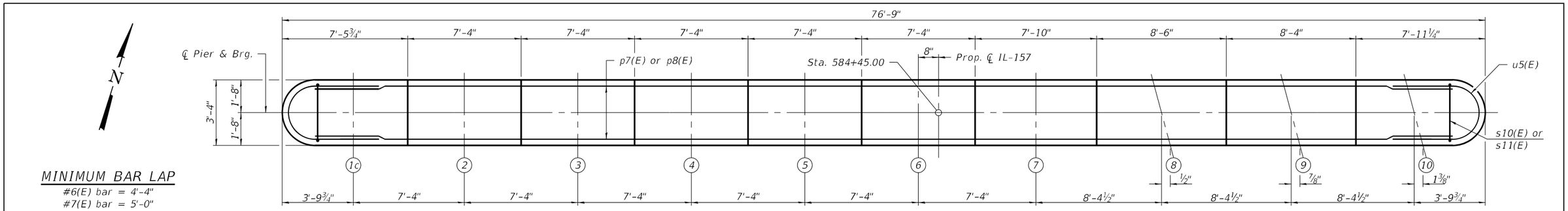
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 060-0229
SHEET 33 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	175
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

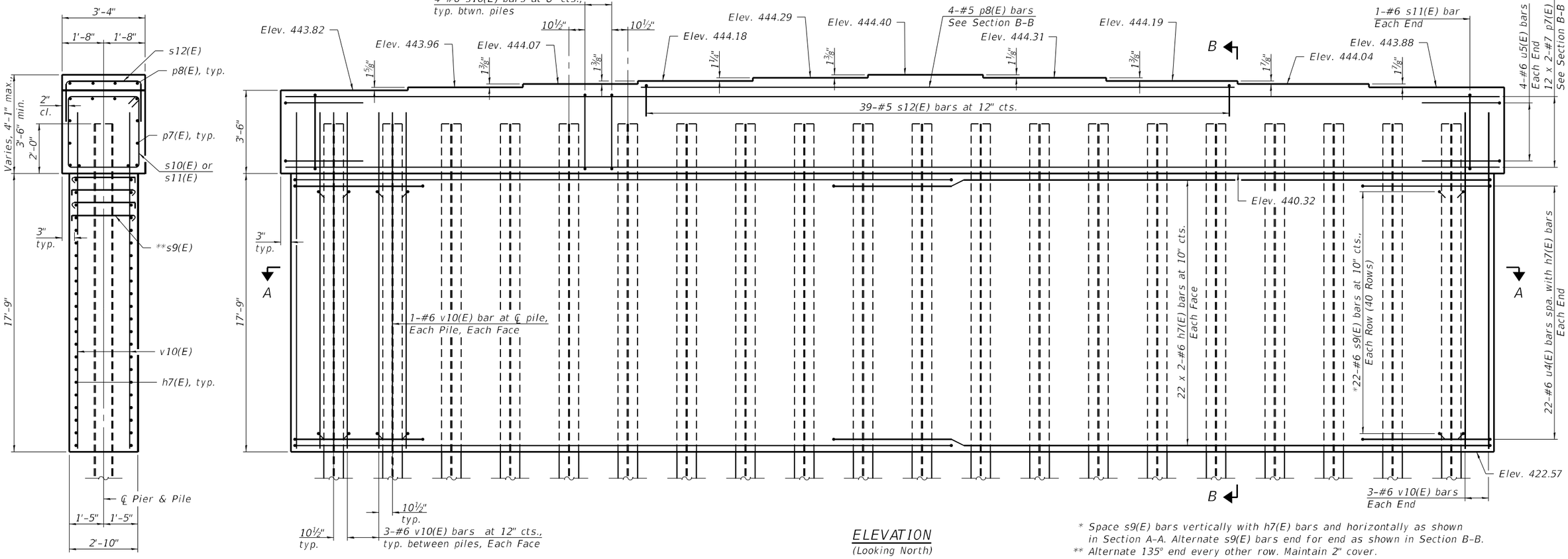
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MINIMUM BAR LAP

#6(E) bar = 4'-4"
#7(E) bar = 5'-0"

TOP PLAN



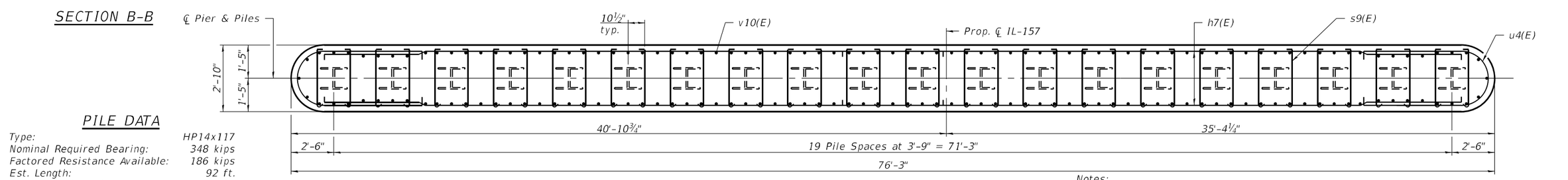
SECTION B-B

ELEVATION

(Looking North)

* Space s9(E) bars vertically with h7(E) bars and horizontally as shown in Section A-A. Alternate s9(E) bars end for end as shown in Section B-B.
** Alternate 135° end every other row. Maintain 2" cover.

SECTION B-B



PILE DATA

Type:	HP14x117
Nominal Required Bearing:	348 kips
Factored Resistance Available:	186 kips
Est. Length:	92 ft.
No. Production Piles:	20
No. Test Piles:	0

SECTION A-A

Notes:
Bars indicated thus 22 x 2-#7 etc. indicates 22 lines of bars with 2 lengths per line.
For anchor bolt layout, bar bending diagrams and Bill of Material, see sheet 36 of 41.

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USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - E.M. Lagemann	REVISED - ____	

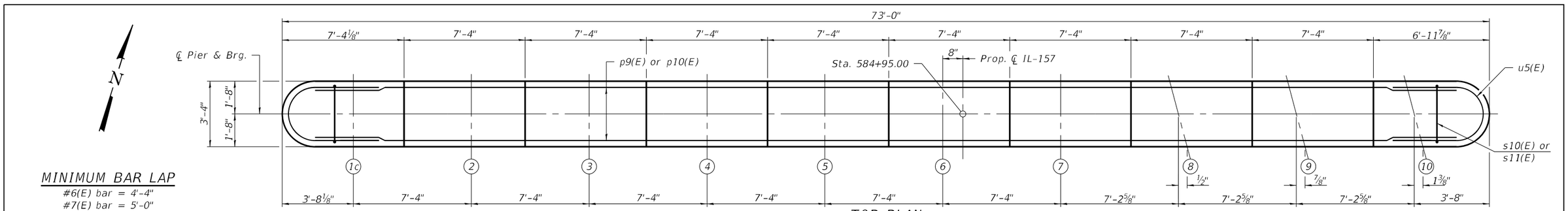
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 060-0229
SHEET 34 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	176
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592

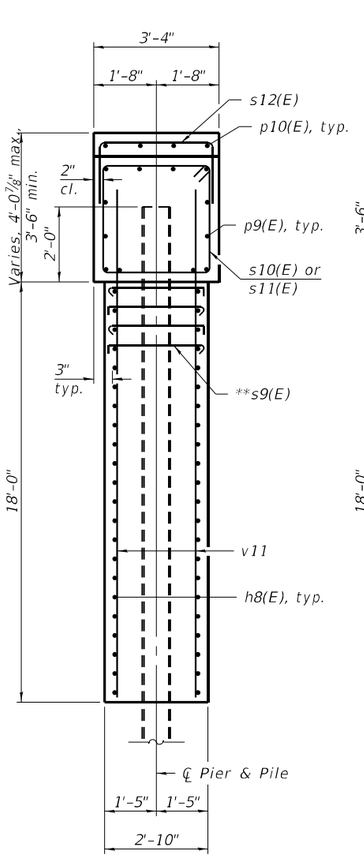
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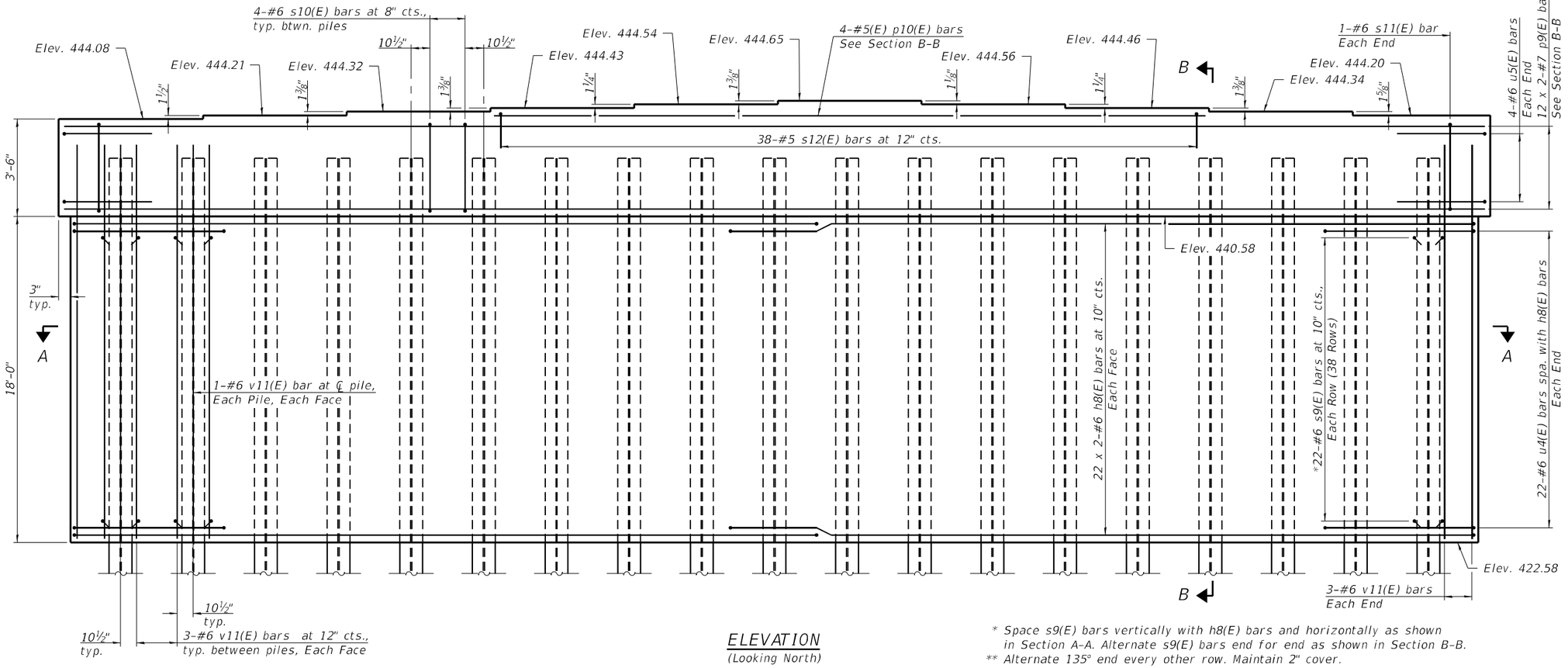


MINIMUM BAR LAP

#6(E) bar = 4'-4"
#7(E) bar = 5'-0"

TOP PLAN



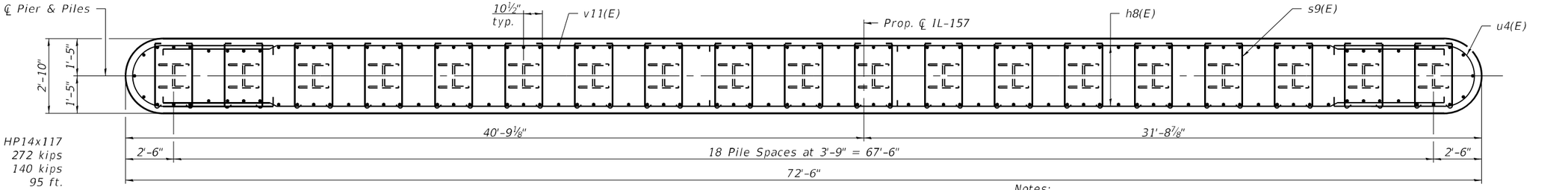


ELEVATION

(Looking North)

* Space s9(E) bars vertically with h8(E) bars and horizontally as shown in Section A-A. Alternate s9(E) bars end for end as shown in Section B-B.
** Alternate 135° end every other row. Maintain 2" cover.

SECTION B-B



SECTION A-A

PILE DATA

Type:	HP14x117
Nominal Required Bearing:	272 kips
Factored Resistance Available:	140 kips
Est. Length:	95 ft.
No. Production Piles:	19
No. Test Piles:	0

Notes:
Bars indicated thus 22 x 2 #6 indicates 22 lines of bars with 2 lengths per line.
For anchor bolt layout, bar bending diagrams and Bill of Material, see sheet 36 of 41.

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USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - E.M. Lagemann	REVISED - ____	

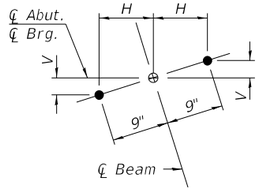
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 060-0229
SHEET 35 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592

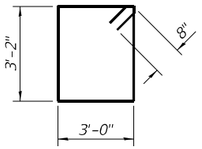
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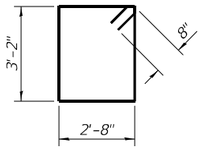
ANCHOR BOLT LAYOUT

TABLE OF VARIABLE DIMENSIONS

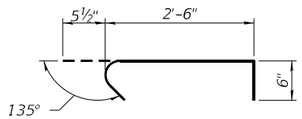
Beam	V	H
1c thru 7	0"	9"
8	3/16"	9"
9	7/16"	9"
10	5/8"	9"



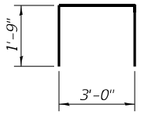
BAR s10(E)



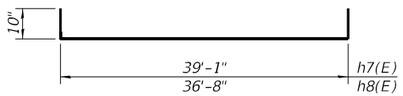
BAR s11(E)



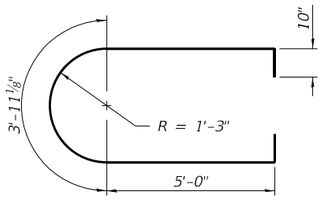
BAR s9(E)



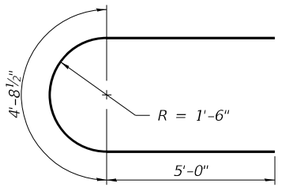
BAR s12(E)



BARS h7(E) & h8(E)



BAR u4(E)



BAR u5(E)

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h7(E)	88	#6	40'-9"	
p7(E)	24	#7	39'-3"	
p8(E)	4	#5	38'-0"	
s9(E)	880	#6	3'-6"	
s10(E)	76	#6	13'-8"	
s11(E)	2	#6	13'-0"	
s12(E)	39	#5	6'-6"	
u4(E)	44	#6	15'-8"	
u5(E)	8	#6	14'-9"	
v10(E)	160	#6	20'-6"	
Cofferdam Excavation			Cu. Yd.	382
Cofferdam (Type 2) (Location - 1)			Each	1
Concrete Structures			Cu. Yd.	176.5
Reinforcement Bars, Epoxy Coated			Pound	20,100
Furnishing Steel Piles HP14x117			Foot	1,840
Driving Piles			Foot	1,840

PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h8(E)	88	#6	38'-4"	
p9(E)	24	#7	37'-4"	
p10(E)	4	#5	36'-4"	
s9(E)	836	#6	3'-6"	
s10(E)	72	#6	13'-8"	
s11(E)	2	#6	13'-0"	
s12(E)	38	#5	6'-6"	
u4(E)	44	#6	15'-8"	
u5(E)	8	#6	14'-9"	
v11(E)	152	#6	20'-9"	
Cofferdam Excavation			Cu. Yd.	462
Cofferdam (Type 2) (Location - 2)			Each	1
Concrete Structures			Cu. Yd.	169.7
Reinforcement Bars, Epoxy Coated			Pound	19,170
Furnishing Steel Piles HP14x117			Foot	1,805
Driving Piles			Foot	1,805

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For Pier 1 Details. see sheet 34 of 41.
For Pier 2 Details, see sheet 35 of 41.
For details of piles, see sheet 37 of 41.

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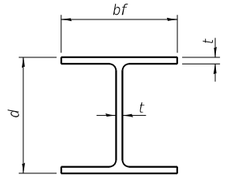
FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM
USER NAME = ____
PLOT SCALE = ____
PLOT DATE = ____
DESIGNED - T.S. Friederich
CHECKED - E.M. Lagemann
DRAWN - T.S. Friederich
CHECKED - E.M. Lagemann
REVISED - ____
REVISED - ____
REVISED - ____
REVISED - ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 060-0229
SHEET 36 OF 41 SHEETS

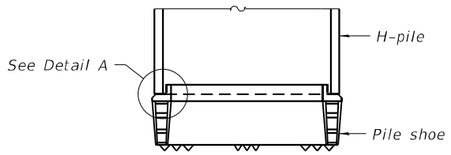
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	178
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

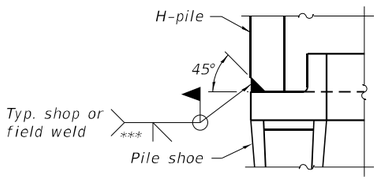


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



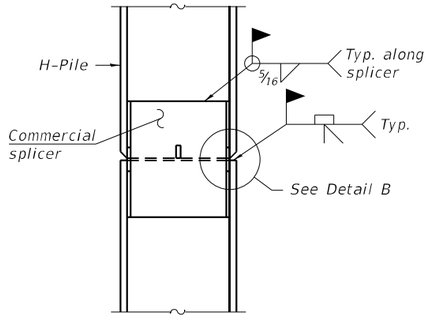
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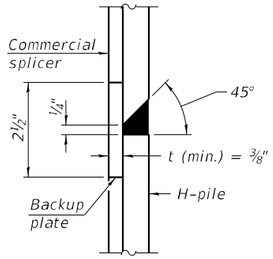
DETAIL A

SHOE ATTACHMENT

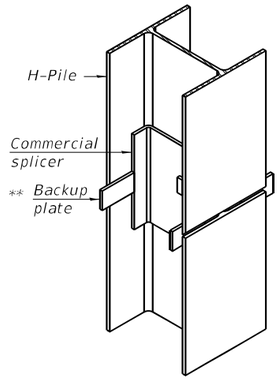
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

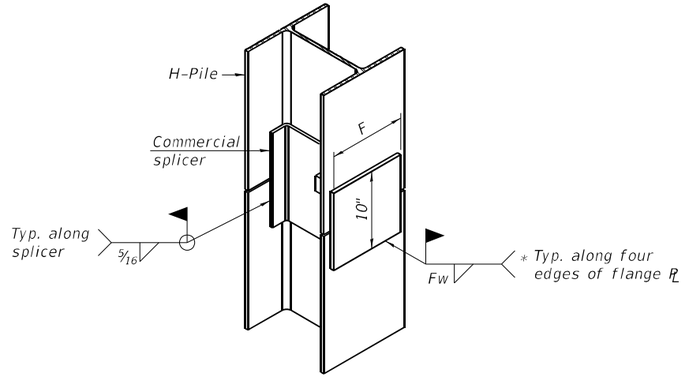


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



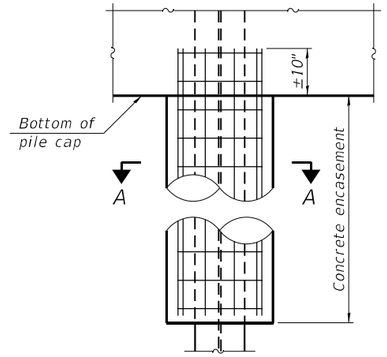
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

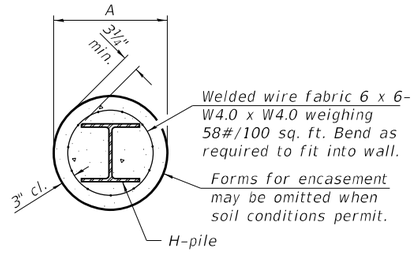
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



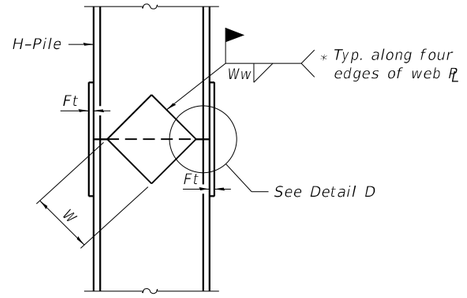
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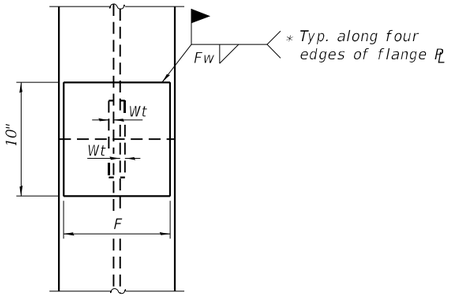
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

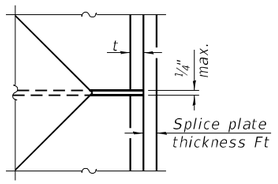
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 2-1-2023

FUHRMANN ENGINEERING
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USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - T.S. Friederich	REVISED - ____	
PLOT DATE = ____	CHECKED - E.M. Lagemann	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

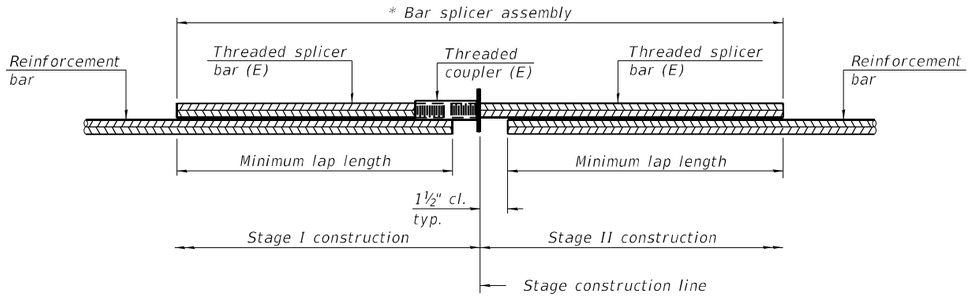
HP PILE DETAILS
STRUCTURE NO. 060-0229
SHEET 37 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	179
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

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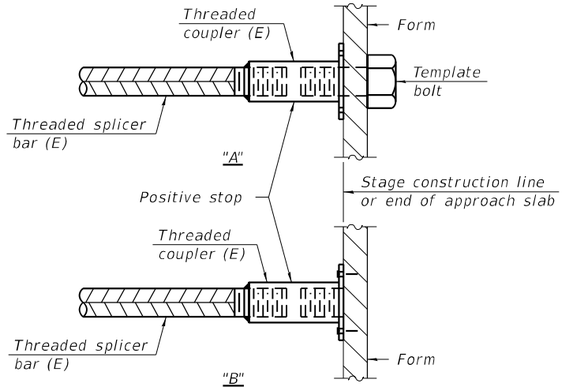
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

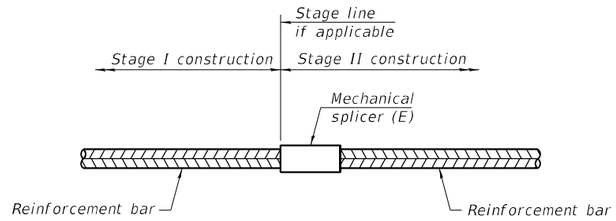
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
S. Abut. Diaphr.	#6	7	4'-10"
N. Abut. Diaphr.	#6	4	4'-10"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 2-1-2023

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USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - A.H. Morinaga Mansilla	REVISED - ____	
PLOT DATE = ____	CHECKED - T.S. Friederich	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 060-0229
SHEET 38 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	180
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: CINDERS (A-1)			
436.5			
FILL: Dark brown to brown SILTY LOAM (A-4), stiff	5 6 9	3.0 P	16
	4 6 7	0.9 S/10%	18
-5			
432.5			
Brown SILTY LOAM (A-4), very moist, very soft *Percentage finer than #200 test performed (21.6% passing)*	WOH WOH WOH	<0.25 P	29
429.0			
Percentage finer than #200 test performed (19.9% passing)	WOH WOH	NC	26
-10			
Brown to reddish brown SANDY LOAM (A-3) w/ silt, very moist, very loose	1		
Percentage finer than #200 test performed (19.2% passing)	WOH WOH 1	NC	23
▼			
Percentage finer than #200 test performed (20.3% passing)	1 1 1	<0.25 P	31
423.0 -15			
Gray and Brown SILTY CLAY (A-6), moist, very soft	WOH 1 2	0.5 S/15%	30
420.0			
Gray CLAY (A-7), moist, soft *Atterberg Limits test performed (LL=34, PI=18)*	1 1 2	0.6 B/20%	23
418.0 -20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray fine SAND (A-3), wet, medium dense	4 7 9	NC	23
414.0			
Gray SILTY LOAM (A-4), moist, stiff	5 5 5	1.5 P	21
-25			
412.5			
Gray fine SAND (A-3), wet, medium dense	8 12 13	NC	NC
-30	6 6 7	NC	24
406.0			
Gray CLAY (A-7), moist, stiff			
-35	5 4 6	2.0 B/20%	23
-40	4 4 7	2.5 B/20%	21

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Bridge LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY (A-7), moist, stiff *(continued)*			
396.0			
Gray SANDY CLAY LOAM (A-6), moist, stiff (fill)	3 4 7	2.0 B/20%	18
-45			
	3 4 6	1.6 B/20%	17
-50			
384.5			
Gray CLAY LOAM (A-7), moist, stiff	5 6 8	2.8 B/20%	22
-55			
-60	3 4 4	1.4 B/20%	28

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY LOAM (A-7), moist, stiff *(continued)*			
376.0			
Gray CLAY (A-7), moist, very stiff	6 6 9	3.0 B/20%	22
-65			
Becomes brown and stiff	6 4 5	2.7 B/20%	32
-70			
Becomes very stiff	4 7 9	2.1 B/20%	28
-75			
Becomes gray	4 5 7	1.4 B/20%	28
358.5			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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USER NAME =	DESIGNED - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -
PLOT DATE =	CHECKED - T.S. Friederich	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
STRUCTURE NO. 060-0229
SHEET 39 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	181
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray weathered CLAYEY SHALE, hard *(continued)*	-85	6 11 20	1.7 S/10%	21
		50/5.5"		11
		50/2"		
350.5		50/5"		11
Sampler Refusal at 87.5 feet. Borehole grouted upon completion.		50/1"		
	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/14,15/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.741338 Long -90.001838

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229
Station 584+70.00

BORING NO. B-19
Station 585+41
Offset 46 ft RT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 422.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown SILTY CLAY (A-6), very soft		WOH 1 1	0.3 S/20%	26
435.5				
Gray CLAY (A-7), some fine to medium sand, clay is loose to medium stiff	-5	1 1 2	0.5 P	24
		2 2 2	0.5 P	28
430.0				
Tan and gray CLAY (A-7), soft	-10	2 2 2	0.3 S/20%	50
		WOH 2 3	0.3 S/5%	51
425.0				
CLAYEY SAND (A-2), sand is fine to coarse, very loose	-15	1 1 2	NC	25
422.0 ▼				
Gray CLAY (A-6), soft		2 2 2	0.2 S/5%	36
	-20	WOH 2 2	0.1 S/5%	34
Gray CLAY (A-6), soft *(continued)*				
Becomes silty		1 2 3	2.0 P	28
415.0				
Gray SAND and CLAY (A-3, A-6), sand is loose to medium dense, clay is medium stiff	-25	2 2 2	1.0 P	20
		2 3 8	0.5 P	24
	-30	4 14 13	0.5 P	23
408.0				
Light brown CLAY (A-7), medium stiff	-35	3 2 3	0.3 P	26
	-40	3 4 4	0.6 B/20%	21

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME =	DESIGNED - T.S. Friederich	REVISED -	
	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -	
PLOT DATE =	CHECKED - T.S. Friederich	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS II
STRUCTURE NO. 060-0229
SHEET 40 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	182
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/14,15/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Bridge LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.741338 Long -90.001838

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229
Station 584+70.00

BORING NO. B-19
Station 585+41
Offset 46 ft RT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 422.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				Light brown CLAY (A-7), medium stiff *(continued)*
				Becomes gray
-45	4 3 6	0.6 B/20%	21	
-50	5 6 9	0.4 S/6%	21	
				Becomes light brown
-55	4 4 7	0.4 S/15%	50	
381.0				Light brown and gray CLAY (A-6), medium stiff
-60	4 4 5	0.5 S/10%	23	
				Light brown and gray CLAY (A-6), medium stiff *(continued)*
-65	4 5 6	0.4 S/10%	19	Becomes silty
371.0				Gray CLAY (A-7), medium stiff
-70	4 4 8	0.8 B/20%	22	
366.0				Gray SILTY CLAY (A-6), medium stiff
-75	4 3 5	0.6 B/20%	26	
361.0				Gray CLAY (A-7), medium stiff
-80	5 5 8	0.6 B/20%	25	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Illinois Department of Transportation
Division of Highways
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SOIL BORING LOG

Date 3/14,15/2022

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SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
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STRUCT. NO. SN 060-0229
Station 584+70.00

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Station 585+41
Offset 46 ft RT
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Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 422.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				Gray CLAY (A-7), medium stiff *(continued)*
				some weathered limestone
-85	6 8 16	2.0 P	22	
349.5				
349.0	50/5"			Gray SHALE, hard
-90			12	Sampler Refusal at 89 feet. Borehole grouted upon completion.
-95				
-100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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USER NAME = ____	DESIGNED - T.S. Friederich	REVISED - ____	
	CHECKED - E.M. Lagemann	REVISED - ____	
PLOT SCALE = ____	DRAWN - E.M. Lagemann	REVISED - ____	
PLOT DATE = ____	CHECKED - T.S. Friederich	REVISED - ____	

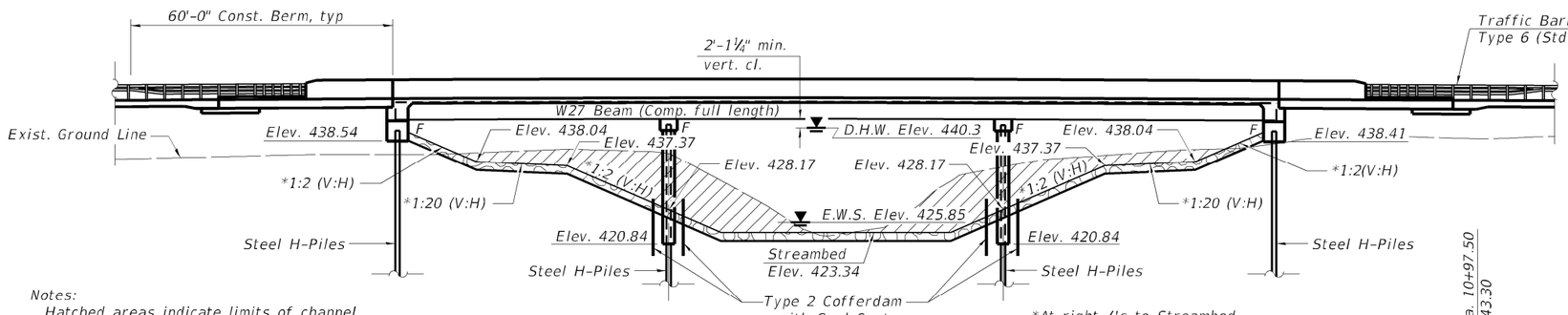
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III
STRUCTURE NO. 060-0229
SHEET 41 OF 41 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	183
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

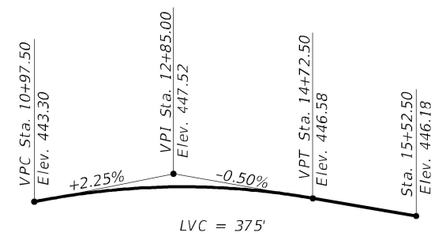
*586/592

Benchmark: Found cut square (with +) on top parapet wall northwest corner of SN 060-0087. Elev. 449.226
Existing Structure: None



Notes:
Hatched areas indicate limits of channel excavation. See Roadway Plans.
For Section A-A and View B-B, see sheet 3 of 31.

ELEVATION



PROFILE GRADE

Along ℄ Prop. IL Rte. 162

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.23g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.53g
Soil Site Class = D

DESIGN STRESSES

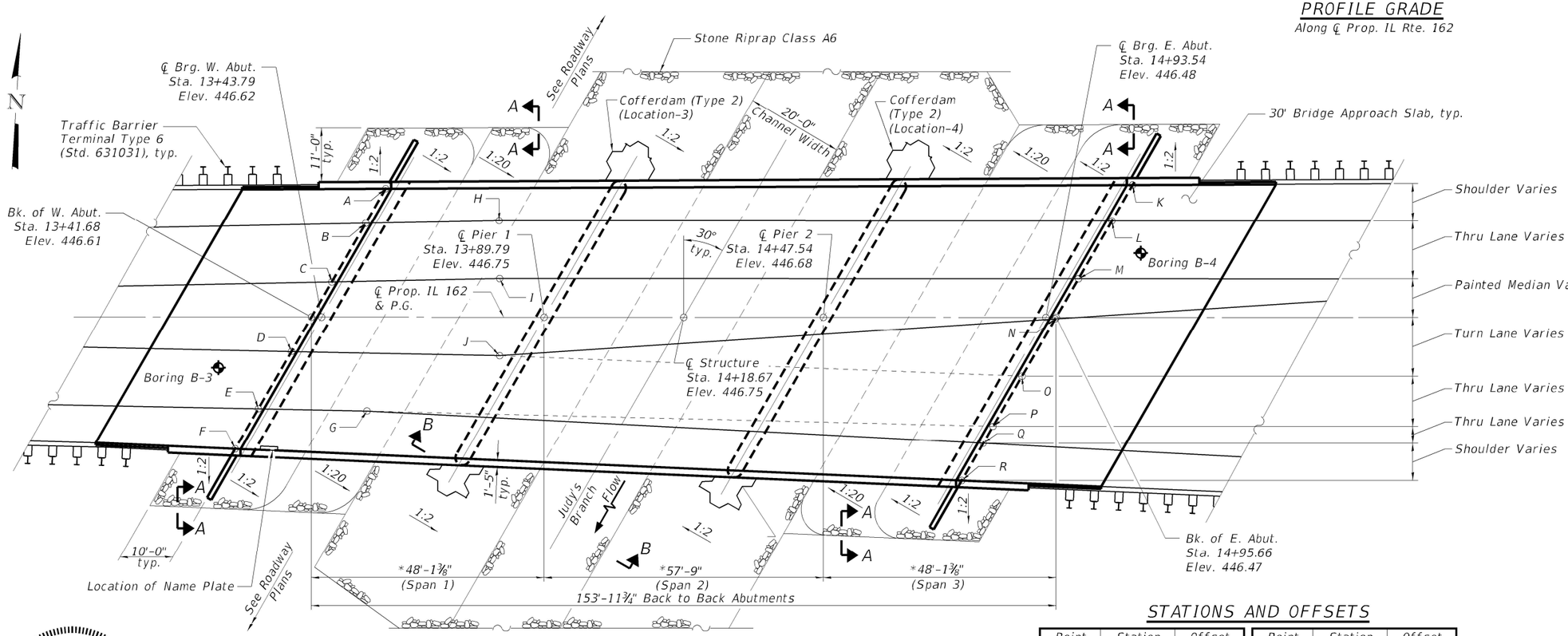
All structural steel shall be painted

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (A709 Grade 36)

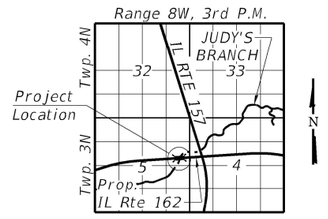
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



PLAN

* Measured along ℄ Prop. IL 162



LOCATION SKETCH

STATIONS AND OFFSETS

Point	Station	Offset
A	13+57.02	26.58' Lt.
B	13+52.90	19.45' Lt.
C	13+45.89	7.31' Lt.
D	13+37.55	7.14' Rt.
E	13+30.70	19.01' Rt.
F	13+25.92	27.30' Rt.
G	13+53.16	19.45' Rt.
H	13+80.47	20.00' Lt.
I	13+80.59	8.00' Lt.

Point	Station	Offset
J	13+80.59	8.00' Rt.
K	15+11.48	27.40' Lt.
L	15+07.21	20.00' Lt.
M	15+00.28	8.00' Lt.
N	14+95.46	0.34' Rt.
O	14+91.04	8.00' Rt.
P	14+84.11	20.00' Rt.
Q	14+80.58	26.12' Rt.
R	14+76.15	33.78' Rt.

ADAM C. STEURY
081-007821
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

SIGNED: Adam Steury Date: 04/09/2024
ILLINOIS STRUCTURAL ENGINEER NO. 081-007821
LICENSE EXPIRES: 11-30-2024

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
PROP. IL RTE. 162 OVER JUDY'S BRANCH
F.A.P. RTE. 586 - SEC. 51-1R
MADISON COUNTY
STATION 14+18.67
STRUCTURE NO. 060-0241

LOCHMUELLER GROUP
1928 S/A Bradley B. Smith Drive
Troy, IL 62294
PHONE: 618.667.2400

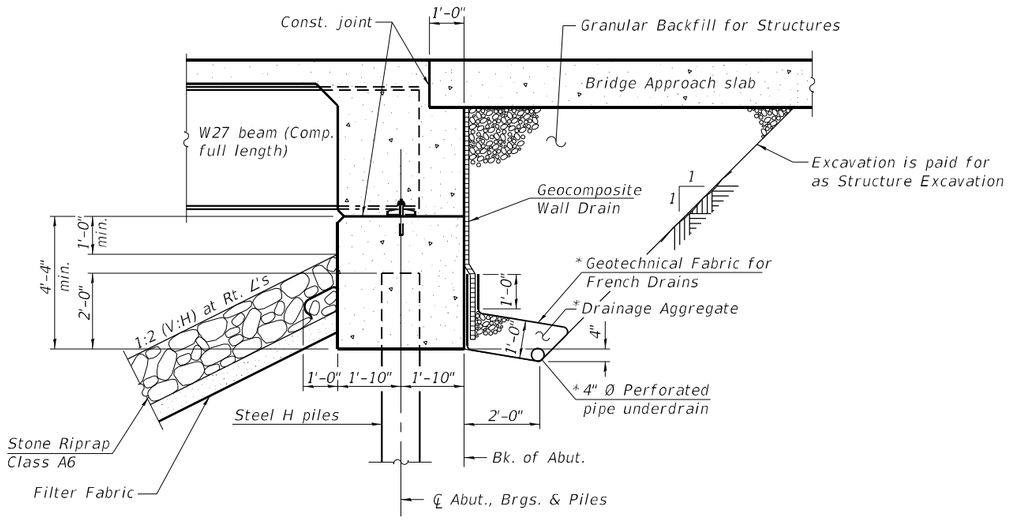
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PLOT DATE = 4/9/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	184
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. at Rt. L's)

* Included in the cost of Pipe Underdrains for Structures

Note:
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).

GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts 7/8 in. diameter, holes $1^{5}/_{16}$ in. diameter, unless otherwise noted.

Calculated weight of Structural Steel = 184,746 pounds (Grade 50) and 27,343 pounds (Grade 36).

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

Slipforming of the parapets is not allowed.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Seal coat design thickness is based on the Cofferdam Design Water Elevation (CDWE) shown. Final cofferdam design, details and seal coat thickness shall be submitted to the Engineer for approval. The CDWE is equal to the Estimated Water Surface Elevation (EWSE) plus 3 feet.

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

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

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Gray, Munsell No 5B 7/1.

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Footing Layout and Construction Details
4.–9. Top of Slab Elevations
10. Top of West Approach Slab Elevations
11. Top of East Approach Slab Elevations
12. Superstructure
13.–14. Superstructure Details
15. West Diaphragm Details
16. East Diaphragm Details
17.–18. West Bridge Approach Slab Details
19.–20. East Bridge Approach Slab Details
21. Framing Plan
22.–24. Structural Steel
25. West Abutment Details
26. East Abutment Details
27. Pier 1 Details
28. Pier 2 Details
29. HP Pile Details
30.–31. Soil Borings

STA. 14+18.67
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 586 SEC. 51-1R
LOADING HL-93
STR. NO. 060-0241

NAME PLATE

See Std. 515001

(Location of Name Plate on S.W. corner of bridge)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A6	Sq. Yd.		1,223	1,223
Filter Fabric	Sq. Yd.		1,223	1,223
Structure Excavation	Cu. Yd.		441	441
Cofferdam Excavation	Cu. Yd.		920	920
Cofferdam (Type 2) (Location-3)	Each		1	1
Cofferdam (Type 2) (Location-4)	Each		1	1
Concrete Structures	Cu. Yd.		431.6	431.6
Concrete Superstructure	Cu. Yd.	326.9		326.9
Bridge Deck Grooving	Sq. Yd.	1,308		1,308
Seal Coat Concrete	Cu. Yd.		186.2	186.2
Protective Coat	Sq. Yd.	1,449		1,449
Concrete Superstructure (Approach Slab)	Cu. Yd.	165.6		165.6
Furnishing and Erecting Structural Steel	L Sum	0.46		0.46
Stud Shear Connectors	Each	7,863		7,863
Reinforcement Bars, Epoxy Coated	Pound	165,520	38,000	203,520
Furnishing Steel Piles HP14x117	Foot		5,418	5,418
Driving Piles	Foot		5,418	5,418
Test Pile Steel HP14x117	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 3/4"	Each	32		32
Anchor Bolts, 1"	Each	32		32
Granular Backfill for Structures	Cu. Yd.		196	196
Geocomposite Wall Drain	Sq. Yd.		104	104
Pipe Underdrains for Structures 4"	Foot		191	191

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q100	439.38	415.46	415.46	439.25	5
Q200	439.38	415.16	415.16	439.25	
Design	439.38	415.46	415.46	439.25	
Check	439.38	415.16	415.16	439.25	

WATERWAY INFORMATION

Drainage Area = 8.6 sq. mi.

Existing Overtopping Elev. = N/A at Sta.
Proposed Overtopping Elev. = 438.54* at Sta. 7+45.00

Flood Event	Freq. Yr.	Discharge Ft^3/S	Waterway Opening - Ft^2		Natural H.W.E. - Ft.	Head - Ft.		Headwater Elevation - Ft.	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Overtop Existing	<10	<3880	603	772					438.2*
Design	50	5750	783	885	440.3	-	0.3	-	440.6
Base	100	6590	866	927	440.7	-	0.5	-	441.2
Scour Design Check	200	7600	959	972	441.1	-	0.6	-	441.7
Overtop Proposed	N/A	-	-	-	-	-	-	-	-
Max. Calc.	500	8920	1067	1019	441.6	-	2.0	-	443.6

10 Year Velocity Through Existing Bridge = N/A ft/s
10 Year Velocity Through Proposed Bridge = 4.99 ft/s

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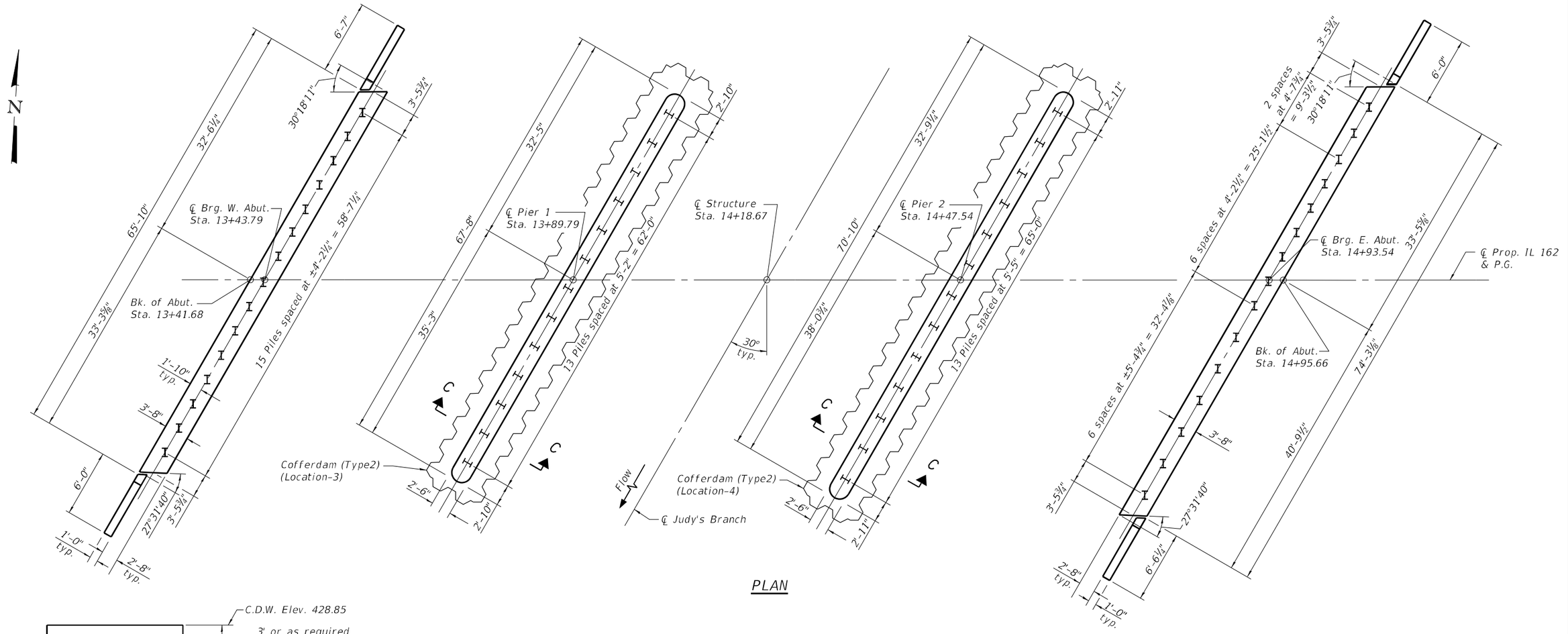
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1928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

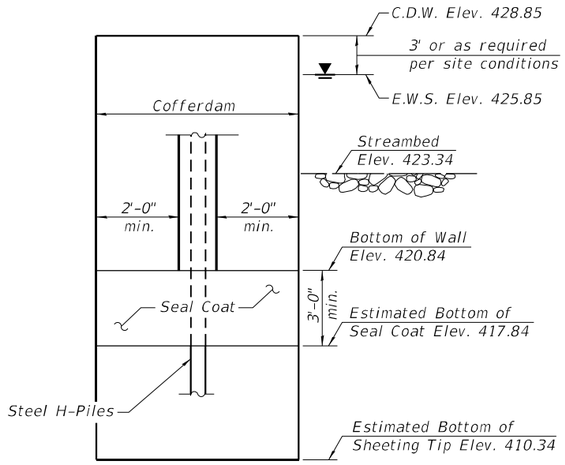
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 060-0241
SHEET NO. 2 OF 31 SHEETS

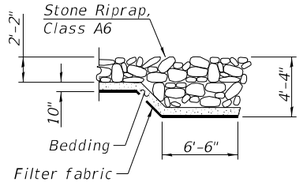
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	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



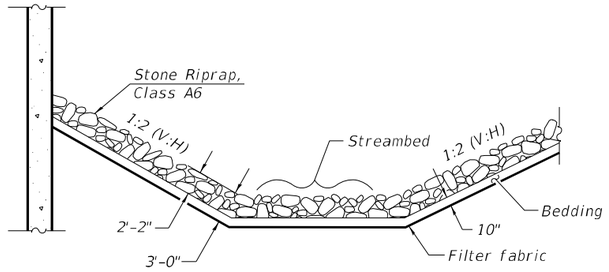
PLAN



SECTION C-C



SECTION A-A



VIEW B-B

(All slopes taken at Rt. ℄'s to Creek)

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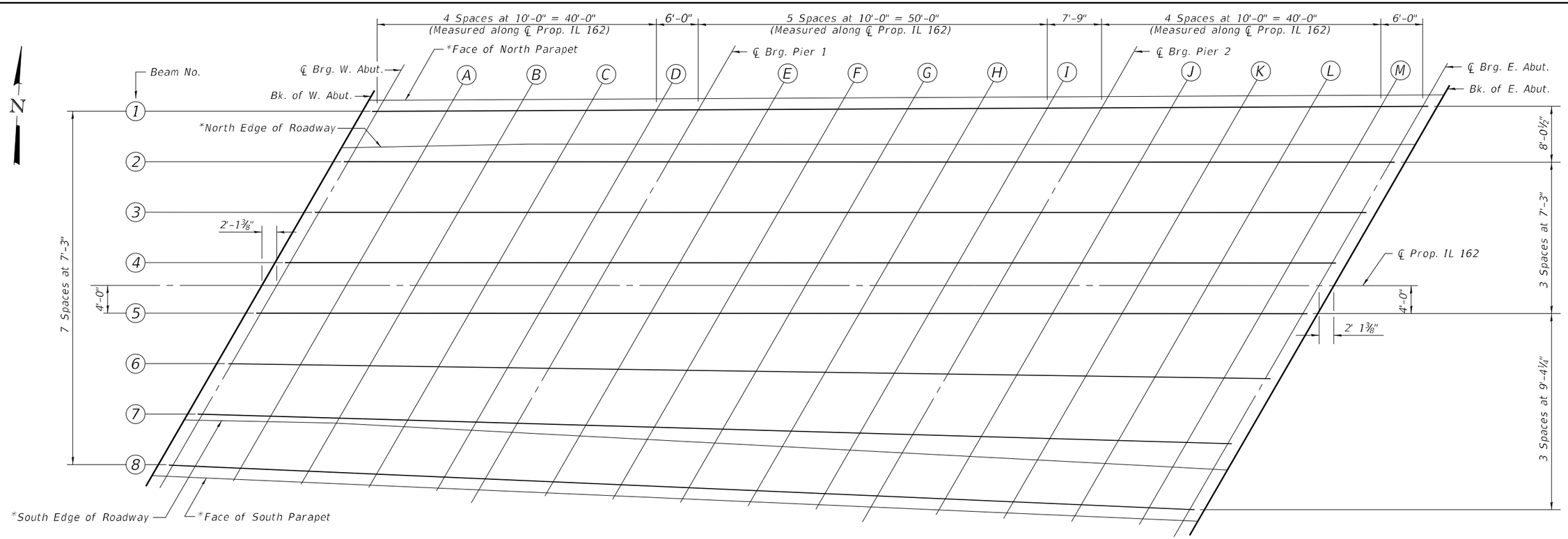
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1928 S/A Bradley B. Smith Drive
Troy, IL 62294
PHONE: 618.667.2400

USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

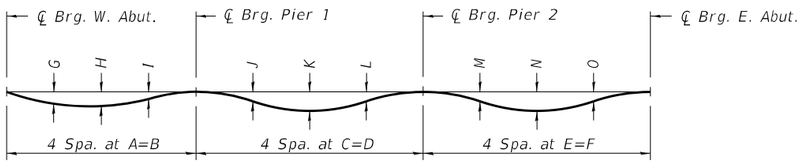
FOOTING PLAN AND CONSTRUCTION DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 3 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	186
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



LAYOUT PLAN FOR DECK ELEVATIONS

* For Stations and Offsets see sheet 1 of 31.



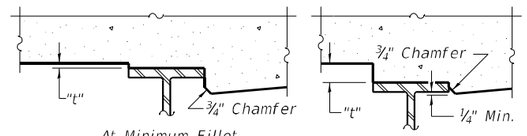
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

DEAD LOAD DEFLECTION TABLE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Beam 1	11'-6 7/16"	46'-1 3/4"	14'-5 3/4"	57'-11 1/8"	11'-6 7/16"	46'-1 3/4"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
Beam 2 -5	11'-6"	46'-0"	14'-5 1/4"	57'-9"	11'-6"	46'-0"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
Beam 6	11'-4 7/8"	45'-7 5/8"	14'-3 7/8"	57'-3 1/2"	11'-4 7/8"	45'-7 5/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
Beam 7	11'-3 13/16"	45'-3 1/4"	14'-2 1/2"	56'-10"	11'-3 13/16"	45'-3 1/4"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"
Beam 8	11'-2 3/4"	44'-11 1/8"	14'-1 11/16"	56'-4 3/4"	11'-2 3/4"	44'-11 1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"	1/8"	1/4"	1/8"

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 as shown on sheets 5 thru 9 of 31.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 5 thru 9 of 31, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

LOCHMUELLER GROUP
1928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 4 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	187
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+57.01	-26.58	446.24	446.24
℄ Brg. W. Abut.	13+59.14	-26.59	446.24	446.24
A	13+69.17	-26.64	446.27	446.29
B	13+79.20	-26.69	446.30	446.31
C	13+89.24	-26.74	446.31	446.32
D	13+99.27	-26.80	446.32	446.32
℄ Brg. Pier 1	14+05.29	-26.83	446.32	446.32
E	14+15.32	-26.88	446.31	446.32
F	14+25.35	-26.94	446.30	446.32
G	14+35.38	-26.99	446.28	446.30
H	14+45.41	-27.04	446.25	446.27
I	14+55.43	-27.09	446.22	446.22
℄ Brg. Pier 2	14+63.21	-27.13	446.18	446.18
J	14+73.24	-27.19	446.14	446.14
K	14+83.27	-27.24	446.08	446.10
L	14+93.30	-27.29	446.03	446.05
M	15+03.33	-27.35	445.98	445.99
℄ Brg. E. Abut.	15+09.35	-27.38	445.95	445.95
Bk. of East Abut.	15+11.48	-27.39	445.94	445.94

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+56.09	-24.99	446.27	446.27
℄ Brg. W. Abut.	13+58.22	-25.00	446.27	446.27
A	13+68.25	-25.05	446.30	446.32
B	13+78.28	-25.11	446.33	446.34
C	13+88.31	-25.16	446.34	446.35
D	13+98.34	-25.21	446.35	446.35
℄ Brg. Pier 1	14+04.36	-25.24	446.35	446.35
E	14+14.39	-25.30	446.34	446.35
F	14+24.42	-25.35	446.33	446.35
G	14+34.45	-25.40	446.31	446.34
H	14+44.48	-25.45	446.28	446.30
I	14+54.51	-25.51	446.25	446.25
℄ Brg. Pier 2	14+62.29	-25.55	446.22	446.22
J	14+72.32	-25.60	446.17	446.18
K	14+82.35	-25.65	446.12	446.14
L	14+92.38	-25.71	446.07	446.09
M	15+02.41	-25.76	446.02	446.03
℄ Brg. E. Abut.	15+08.43	-25.79	445.99	445.99
Bk. of East Abut.	15+10.55	-25.80	445.98	445.98

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+52.91	-19.47	446.36	446.36
℄ Brg. W. Abut.	13+55.05	-19.49	446.37	446.37
A	13+65.17	-19.60	446.40	446.42
B	13+75.29	-19.71	446.43	446.44
C	13+85.34	-19.82	446.44	446.45
D	13+95.34	-19.93	446.45	446.45
℄ Brg. Pier 1	14+01.34	-20.00	446.45	446.45
E	14+11.34	-20.00	446.45	446.46
F	14+21.34	-20.00	446.44	446.46
G	14+31.34	-20.00	446.43	446.45
H	14+41.34	-20.00	446.40	446.42
I	14+51.34	-20.00	446.37	446.38
℄ Brg. Pier 2	14+59.09	-20.00	446.34	446.34
J	14+69.09	-20.00	446.30	446.31
K	14+79.09	-20.00	446.25	446.27
L	14+89.09	-20.00	446.20	446.22
M	14+99.09	-20.00	446.15	446.16
℄ Brg. E. Abut.	15+05.09	-20.00	446.12	446.12
Bk. of East Abut.	15+07.21	-20.00	446.11	446.11

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 5 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	188
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+51.93	-17.75	446.39	446.39
℄ Brg. W. Abut.	13+54.04	-17.75	446.39	446.39
A	13+64.07	-17.75	446.43	446.44
B	13+74.10	-17.75	446.45	446.47
C	13+84.13	-17.75	446.47	446.48
D	13+94.16	-17.75	446.48	446.49
℄ Brg. Pier 1	14+00.04	-17.75	446.49	446.49
E	14+10.04	-17.75	446.49	446.49
F	14+20.04	-17.75	446.48	446.50
G	14+30.04	-17.75	446.46	446.49
H	14+40.04	-17.75	446.44	446.46
I	14+50.04	-17.75	446.41	446.42
℄ Brg. Pier 2	14+57.79	-17.75	446.38	446.38
J	14+67.79	-17.75	446.34	446.35
K	14+77.79	-17.75	446.29	446.31
L	14+87.79	-17.75	446.24	446.26
M	14+97.79	-17.75	446.19	446.20
℄ Brg. E. Abut.	15+03.79	-17.75	446.16	446.16
Bk. of E. Abut.	15+05.90	-17.75	446.15	446.15

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+47.74	-10.50	446.48	446.48
℄ Brg. W. Abut.	13+49.85	-10.50	446.49	446.49
A	13+59.85	-10.50	446.52	446.54
B	13+69.85	-10.50	446.55	446.57
C	13+79.85	-10.50	446.57	446.59
D	13+89.85	-10.50	446.59	446.59
℄ Brg. Pier 1	13+95.85	-10.50	446.59	446.59
E	14+05.85	-10.50	446.60	446.60
F	14+15.85	-10.50	446.59	446.61
G	14+25.85	-10.50	446.58	446.60
H	14+35.85	-10.50	446.56	446.58
I	14+45.85	-10.50	446.53	446.54
℄ Brg. Pier 2	14+53.60	-10.50	446.51	446.51
J	14+63.60	-10.50	446.47	446.47
K	14+73.60	-10.50	446.42	446.43
L	14+83.60	-10.50	446.37	446.39
M	14+93.60	-10.50	446.32	446.33
℄ Brg. E. Abut.	14+99.60	-10.50	446.29	446.29
Bk. of E. Abut.	15+01.71	-10.50	446.28	446.28

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+43.56	-3.25	446.57	446.57
℄ Brg. W. Abut.	13+45.67	-3.25	446.58	446.58
A	13+55.67	-3.25	446.62	446.63
B	13+65.67	-3.25	446.65	446.67
C	13+75.67	-3.25	446.67	446.69
D	13+85.67	-3.25	446.69	446.69
℄ Brg. Pier 1	13+91.67	-3.25	446.70	446.70
E	14+01.67	-3.25	446.70	446.71
F	14+11.67	-3.25	446.70	446.72
G	14+21.67	-3.25	446.69	446.72
H	14+31.67	-3.25	446.68	446.70
I	14+41.67	-3.25	446.65	446.66
℄ Brg. Pier 2	14+49.42	-3.25	446.63	446.63
J	14+59.42	-3.25	446.59	446.60
K	14+69.42	-3.25	446.55	446.57
L	14+79.42	-3.25	446.50	446.52
M	14+89.42	-3.25	446.45	446.46
℄ Brg. E. Abut.	14+95.42	-3.25	446.42	446.42
Bk. of E. Abut.	14+97.53	-3.25	446.41	446.41

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Troy, IL 62294
PHONE: 618.667.1400

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 6 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	189
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

℄ ROADWAY & P.G

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+41.68	0.00	446.61	446.61
℄ Brg. W. Abut.	13+43.79	0.00	446.62	446.62
A	13+53.79	0.00	446.66	446.67
B	13+63.79	0.00	446.69	446.71
C	13+73.79	0.00	446.72	446.73
D	13+83.79	0.00	446.74	446.74
℄ Brg. Pier 1	13+89.79	0.00	446.75	446.75
E	13+99.79	0.00	446.75	446.76
F	14+09.79	0.00	446.75	446.77
G	14+19.79	0.00	446.74	446.77
H	14+29.79	0.00	446.73	446.75
I	14+39.79	0.00	446.71	446.71
℄ Brg. Pier 2	14+47.54	0.00	446.68	446.68
J	14+57.54	0.00	446.65	446.66
K	14+67.54	0.00	446.61	446.62
L	14+77.54	0.00	446.56	446.58
M	14+87.54	0.00	445.51	445.52
℄ Brg. E. Abut.	14+93.54	0.00	446.48	446.48
Bk. of E. Abut.	14+95.65	0.00	446.47	446.47

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+39.37	4.00	446.54	446.54
℄ Brg. W. Abut.	13+41.48	4.00	446.55	446.55
A	13+51.48	4.00	446.59	446.60
B	13+61.48	4.00	446.63	446.64
C	13+71.48	4.00	446.65	446.66
D	13+81.48	4.00	446.67	446.68
℄ Brg. Pier 1	13+87.48	4.00	446.68	446.68
E	13+97.48	4.00	446.69	446.70
F	14+07.48	4.00	446.69	446.71
G	14+17.48	4.00	446.69	446.71
H	14+27.48	4.00	446.67	446.69
I	14+37.48	4.00	446.65	446.66
℄ Brg. Pier 2	14+45.23	4.00	446.63	446.63
J	14+55.23	4.00	446.60	446.61
K	14+65.23	4.00	446.56	446.58
L	14+75.23	4.00	446.51	446.53
M	14+85.23	4.00	446.46	446.47
℄ Brg. E. Abut.	14+91.23	4.00	446.43	446.43
Bk. of E. Abut.	14+93.35	4.00	446.42	446.42

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+35.19	11.22	446.41	446.41
℄ Brg. W. Abut.	13+37.29	11.25	446.42	446.42
A	13+47.21	11.39	446.46	446.48
B	13+57.13	11.53	446.50	446.52
C	13+67.05	11.67	446.53	446.54
D	13+76.97	11.81	446.55	446.55
℄ Brg. Pier 1	13+82.92	11.90	446.56	446.56
E	13+92.84	12.04	446.57	446.58
F	14+02.76	12.18	446.57	446.59
G	14+12.68	12.32	446.57	446.59
H	14+22.59	12.46	446.55	446.57
I	14+32.51	12.60	446.53	446.54
℄ Brg. Pier 2	14+40.20	12.71	446.52	446.52
J	14+50.12	12.85	446.48	446.49
K	14+60.04	12.99	446.44	446.46
L	14+69.96	13.13	446.40	446.42
M	14+79.88	13.27	446.35	446.36
℄ Brg. E. Abut.	14+85.83	13.35	446.32	446.32
Bk. of E. Abut.	14+87.93	13.38	446.30	446.30

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LOCHMUELLER GROUP
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 7 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	190
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+31.02	18.44	446.28	446.28
℄ Brg. W. Abut.	13+33.11	18.50	446.29	446.29
A	13+42.95	18.78	446.33	446.35
B	13+52.78	19.06	446.37	446.39
C	13+62.62	19.34	446.40	446.41
D	13+72.45	19.62	446.42	446.42
℄ Brg. Pier 1	13+78.36	19.79	446.43	446.43
E	13+88.20	20.07	446.44	446.45
F	13+98.03	20.35	446.45	446.47
G	14+07.87	20.64	446.44	446.47
H	14+17.71	20.92	446.43	446.45
I	14+27.55	21.20	446.42	446.42
℄ Brg. Pier 2	14+35.18	21.42	446.40	446.40
J	14+45.02	21.70	446.37	446.37
K	14+54.85	21.98	446.33	446.35
L	14+64.69	22.26	446.29	446.31
M	14+74.52	22.54	446.23	446.24
℄ Brg. E. Abut.	14+80.43	22.71	446.20	446.20
Bk. of E. Abut.	14+82.51	22.77	446.19	446.19

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+30.71	18.97	446.27	446.27
℄ Brg. W. Abut.	13+32.80	19.05	446.28	446.28
A	13+42.68	19.42	446.33	446.34
B	13+52.56	19.79	446.36	446.37
C	13+62.28	20.16	446.38	446.40
D	13+72.00	20.52	446.41	446.41
℄ Brg. Pier 1	13+77.82	20.74	446.42	446.42
E	13+87.53	21.25	446.42	446.43
F	13+97.23	21.76	446.42	446.44
G	14+06.94	22.27	446.42	446.44
H	14+16.64	22.77	446.41	446.42
I	14+24.16	23.17	446.39	446.40
℄ Brg. Pier 2	14+33.87	23.67	446.37	446.37
J	14+43.58	24.18	446.33	446.34
K	14+53.28	24.69	446.29	446.31
L	14+62.99	25.20	446.25	446.27
M	14+68.81	25.50	446.20	446.21
℄ Brg. E. Abut.	14+78.53	26.01	446.16	446.16
Bk. of E. Abut.	14+80.59	26.12	446.15	446.15

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+26.85	25.66	446.11	446.11
℄ Brg. W. Abut.	13+28.92	25.75	446.12	446.12
A	13+38.68	26.17	446.17	446.18
B	13+48.44	26.59	446.20	446.22
C	13+58.20	27.02	446.23	446.24
D	13+67.96	27.44	446.26	446.26
℄ Brg. Pier 1	13+73.80	27.69	446.27	446.27
E	13+83.56	28.11	446.28	446.29
F	13+93.32	28.53	446.29	446.30
G	14+03.09	28.95	446.28	446.31
H	14+12.85	29.38	446.28	446.29
I	14+22.61	29.80	446.26	446.27
℄ Brg. Pier 2	14+30.15	30.12	446.24	446.24
J	14+39.91	30.55	446.22	446.22
K	14+49.67	30.97	446.18	446.20
L	14+59.43	31.39	446.14	446.16
M	14+69.19	31.81	446.09	446.10
℄ Brg. E. Abut.	14+75.03	32.06	446.06	446.06
Bk. of E. Abut.	14+77.09	32.15	446.05	446.05

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PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 8 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	191
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	13+25.91	27.30	446.08	446.08
℄ Brg. W. Abut.	13+27.98	27.39	446.09	446.09
A	13+37.74	27.81	446.13	446.14
B	13+47.50	28.23	446.17	446.18
C	13+57.26	28.65	446.20	446.21
D	13+67.02	29.07	446.22	446.22
℄ Brg. Pier 1	13+72.86	29.32	446.23	446.23
E	13+82.62	29.74	446.25	446.25
F	13+92.38	30.17	446.25	446.27
G	14+02.15	30.59	446.25	446.27
H	14+11.91	31.01	446.24	446.26
I	14+21.67	31.43	446.23	446.23
℄ Brg. Pier 2	14+29.21	31.76	446.21	446.21
J	14+38.97	32.18	446.19	446.19
K	14+48.73	32.60	446.15	446.17
L	14+58.49	33.02	446.11	446.13
M	14+68.25	33.44	446.06	446.07
℄ Brg. E. Abut.	14+74.09	33.69	446.03	446.03
Bk. of E. Abut.	14+76.15	33.78	446.02	446.02

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 9 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	192
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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NORTH CURB LINE

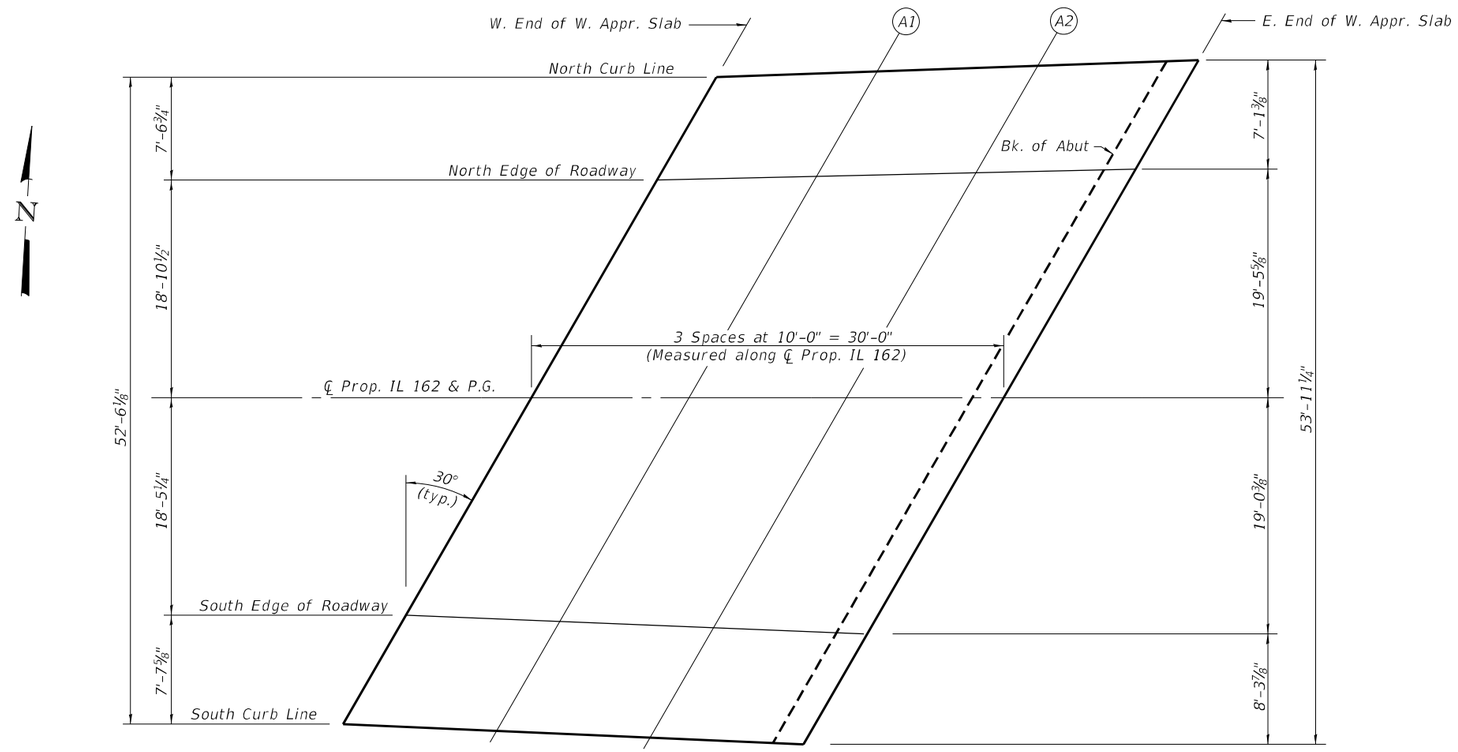
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+28.09	-26.43	446.11
A1	13+38.12	-26.48	446.16
A2	13+48.15	-26.53	446.20
E. End of W. Appr. Slab	13+58.18	-26.58	446.24

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+23.72	-18.87	446.23
A1	13+33.84	-19.07	446.28
A2	13+43.96	-19.27	446.33
E. End of W. Appr. Slab	13+54.07	-19.47	446.37

℄ PROP. IL 162 & P.G.

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+12.83	0.00	446.45
A1	13+22.83	0.00	446.51
A2	13+32.83	0.00	446.57
E. End of W. Appr. Slab	13+42.83	0.00	446.61



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+02.19	18.44	446.09
A1	13+12.07	18.63	446.16
A2	13+21.96	18.83	446.22
E. End of W. Appr. Slab	13+31.84	19.03	446.27

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	12+97.77	26.08	445.91
A1	13+07.53	26.50	445.97
A2	13+17.29	26.92	446.03
E. End of W. Appr. Slab	13+27.04	27.35	446.08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 10 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	193
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

\\Lochfiles\Production Files\2020\420-0018\CAD\Bridge Files\Design\060241-76A46-010 Top. of West_Approach_Slab_Elevations.dgn

NORTH CURB LINE

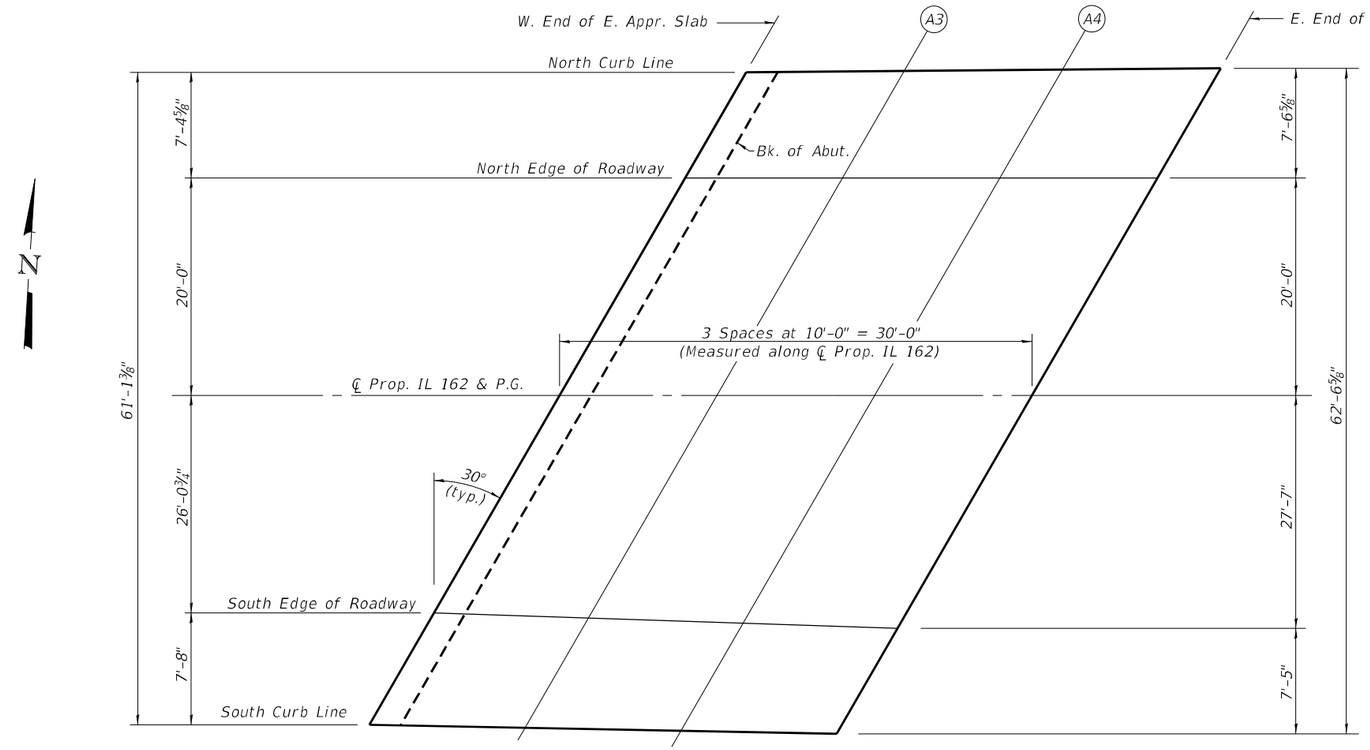
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	15+10.32	-27.39	445.95
A3	15+20.35	-27.44	445.89
A4	15+30.38	-27.50	445.84
E. End of E. Appr. Slab	15+40.41	-27.55	445.79

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	15+06.05	-20	446.11
A3	15+16.05	-20	446.06
A4	15+26.05	-20	446.01
E. End of E. Appr. Slab	15+36.05	-20	445.96

℄ PROP. IL 162 & P.G.

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	14+94.51	0.00	446.47
A3	15+04.51	0.00	446.42
A4	15+14.51	0.00	446.37
E. End of E. Appr. Slab	15+24.51	0.00	446.32



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	14+79.46	26.06	446.16
A3	14+89.17	26.56	446.10
A4	14+98.88	27.07	446.04
E. End of E. Appr. Slab	15+08.58	27.58	445.99

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	14+75.03	33.73	446.02
A3	14+84.79	34.16	445.97
A4	14+94.54	34.58	445.91
E. End of E. Appr. Slab	15+04.30	35.00	445.86

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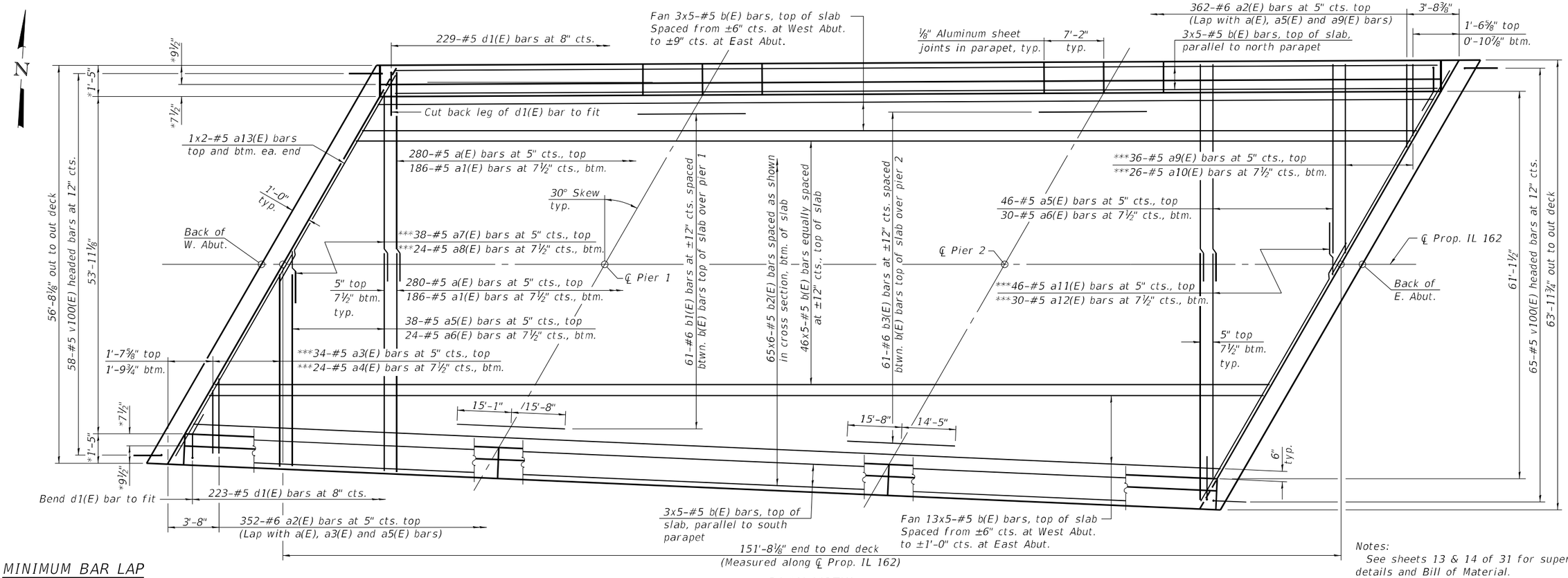
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TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0241
SHEET NO. 11 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

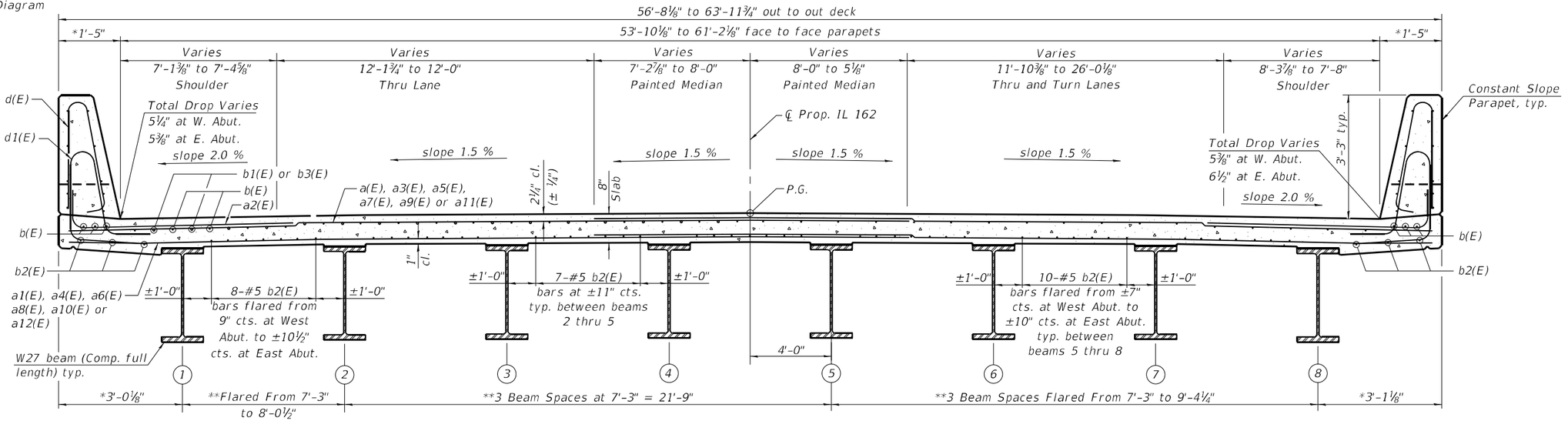


PLAN VIEW

MINIMUM BAR LAP

#5 bar = 3'-6"

***See Field Cutting Diagram on sheet 14 of 31.



AT PIER — NEAR MIDSPAN

CROSS SECTION

(Looking East)

All dimensions taken at right angles to ℄ Roadway. (Except as noted)

Notes:

See sheets 13 & 14 of 31 for superstructure details and Bill of Material.

Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

* Perpendicular to Fascia Beam.

** Perpendicular to ℄ Roadway.

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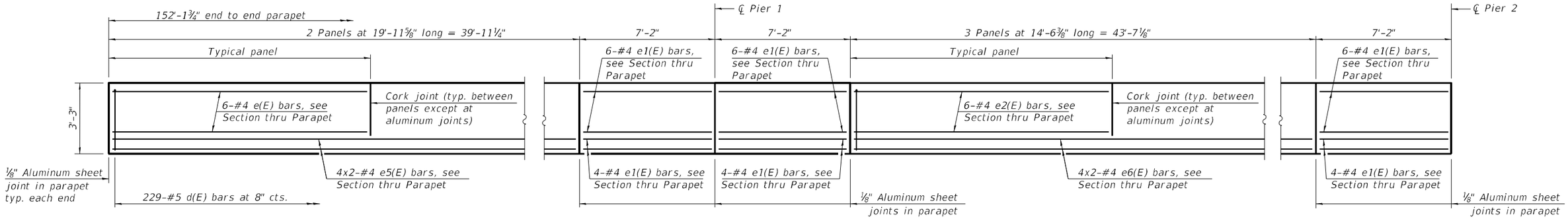
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PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

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SUPERSTRUCTURE
STRUCTURE NO. 060-0241
SHEET NO. 12 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	195
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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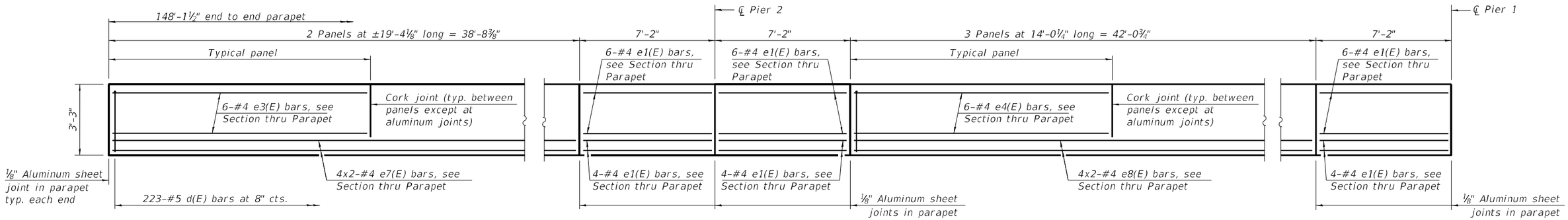


SPAN 1 OR SPAN 3 (MIRRORED)

SPAN 2

INSIDE ELEVATION OF PARAPET

(NORTH PARAPET)

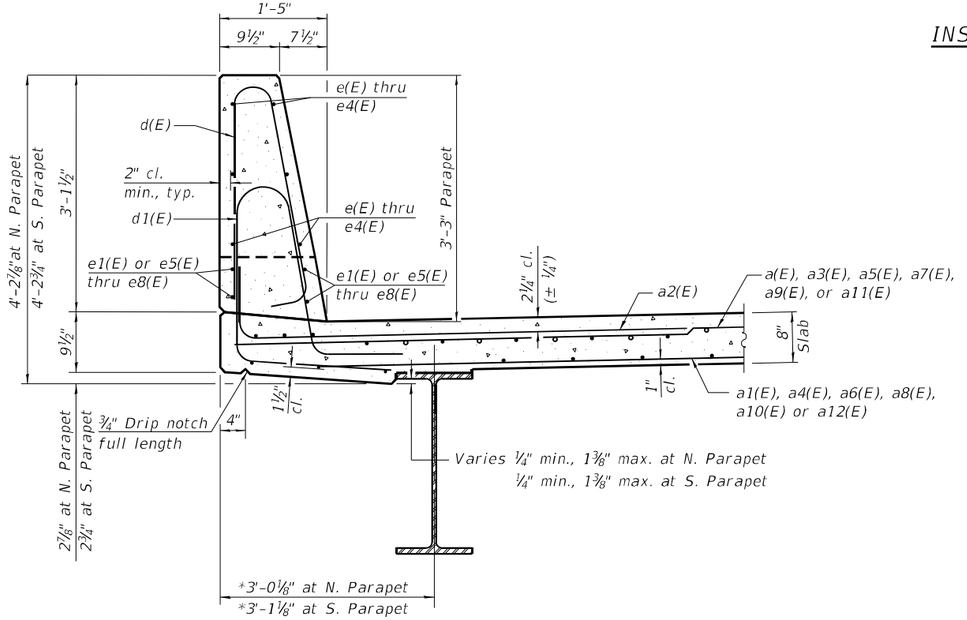


SPAN 3 OR SPAN 1 (MIRRORED)

SPAN 2

INSIDE ELEVATION OF PARAPET

(SOUTH PARAPET)

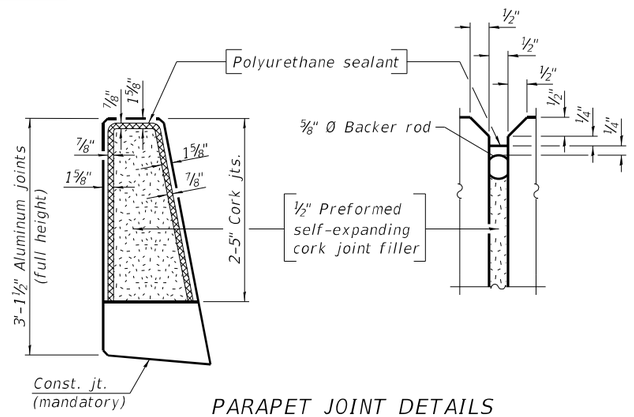


SECTION THRU PARAPET

* Perpendicular to Fascia Beam

MINIMUM BAR LAP

#4 bar = 2'-5"



PARAPET JOINT DETAILS

Notes:

The ⅛" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated 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.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

Bars indicated thus 4x2-#4 etc. indicates 4 lines of bars with 2 lengths per line.

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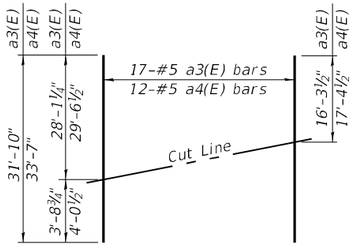
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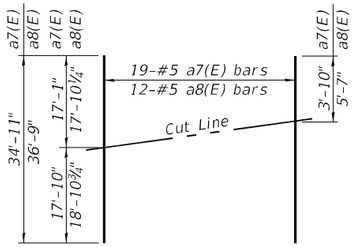
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 13 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	196
	SN 060-0241	CONTRACT NO. 76A46		
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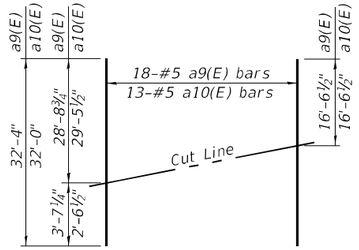
FIELD CUTTING DIAGRAM

Order a3(E) and a4(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.



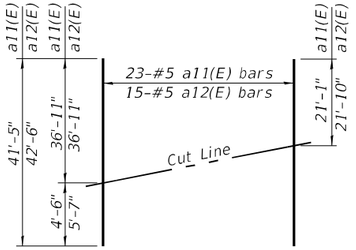
FIELD CUTTING DIAGRAM

Order a7(E) and a8(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.



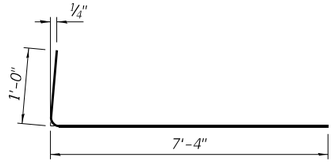
FIELD CUTTING DIAGRAM

Order a9(E) and a10(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.

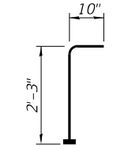


FIELD CUTTING DIAGRAM

Order a11(E) and a12(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.

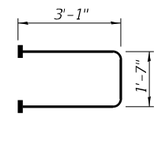


BAR a2(E)



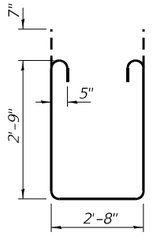
BAR v100(E)

(Headed)

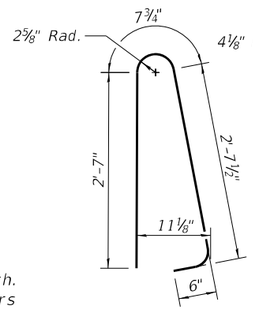


BAR s10(E)

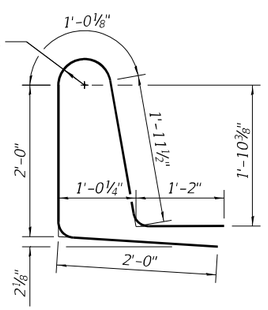
(Headed)



BAR s11(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	560	#5	33'-6"	
a1(E)	372	#5	33'-6"	
a2(E)	714	#6	8'-4"	
a3(E)	17	#5	31'-10"	
a4(E)	12	#5	33'-7"	
a5(E)	84	#5	28'-7"	
a6(E)	54	#5	28'-7"	
a7(E)	19	#5	34'-11"	
a8(E)	12	#5	36'-9"	
a9(E)	18	#5	32'-4"	
a10(E)	13	#5	32'-0"	
a11(E)	23	#5	41'-5"	
a12(E)	15	#5	42'-6"	
a13(E)	8	#5	33'-9"	
b(E)	340	#5	33'-2"	
b1(E)	61	#6	30'-9"	
b2(E)	390	#5	28'-3"	
b3(E)	61	#6	30'-1"	
d(E)	452	#5	6'-5"	
d1(E)	452	#5	8'-2"	
e(E)	24	#4	19'-7"	
e1(E)	80	#4	6'-10"	
e2(E)	18	#4	14'-2"	
e3(E)	24	#4	19'-0"	
e4(E)	18	#4	13'-8"	
e5(E)	16	#4	21'-1"	
e6(E)	8	#4	23'-0"	
e7(E)	16	#4	20'-5"	
e8(E)	8	#4	22'-3"	
m10(E)	8	#6	34'-7"	
m11(E)	30	#6	7'-10"	
m12(E)	12	#6	3'-0"	
m13(E)	9	#6	10'-3"	
m14(E)	3	#6	8'-9"	
m15(E)	8	#6	38'-11"	
s10(E)	117	#5	7'-9"	
s11(E)	117	#5	9'-4"	
v100(E)	123	#5	3'-1"	
Concrete Superstructure		Cu. Yds.	319.3	
Reinforcement Bars, Epoxy Coated		Pound	92,410	

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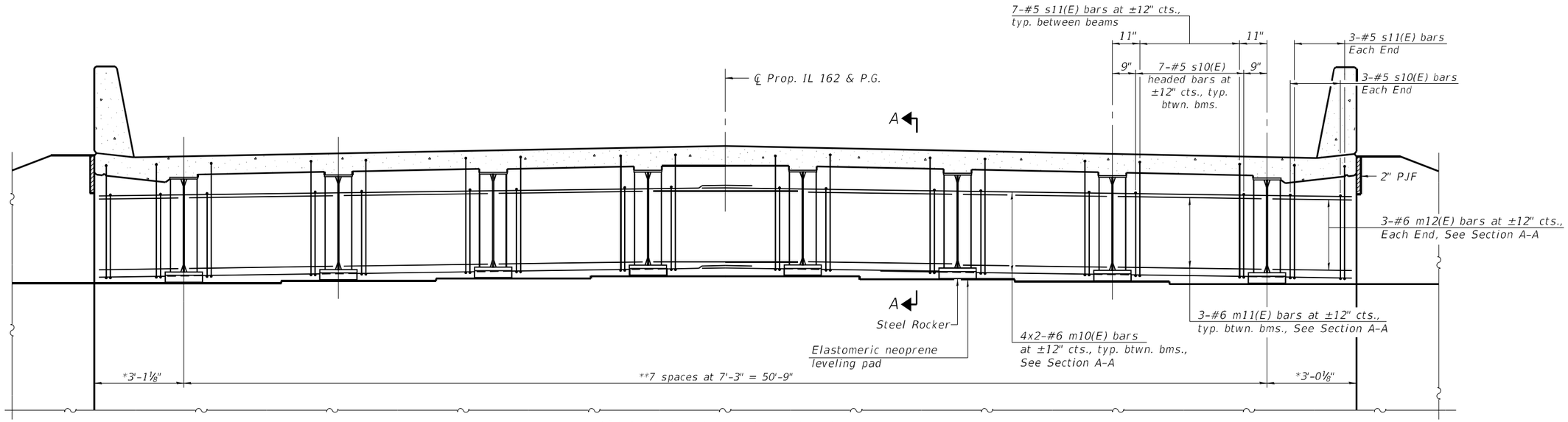
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SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 14 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

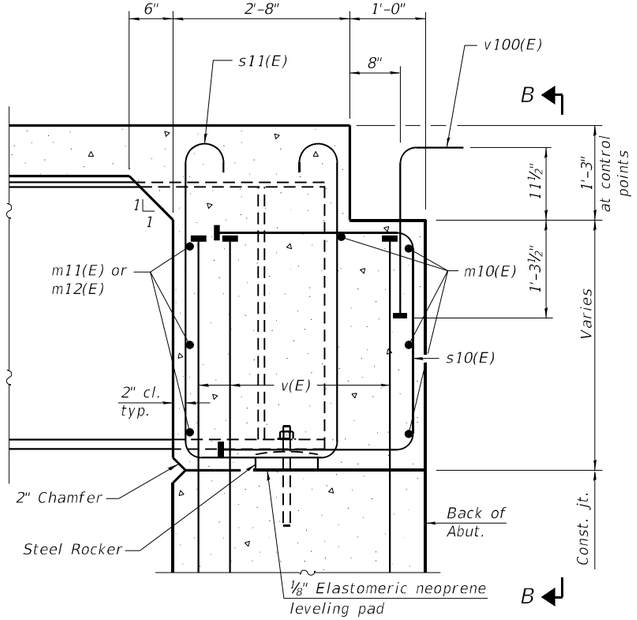


DIAPHRAGM AT WEST ABUTMENT

* Perpendicular to Fascia Beam.
** Perpendicular to ℄ Prop. IL 162.

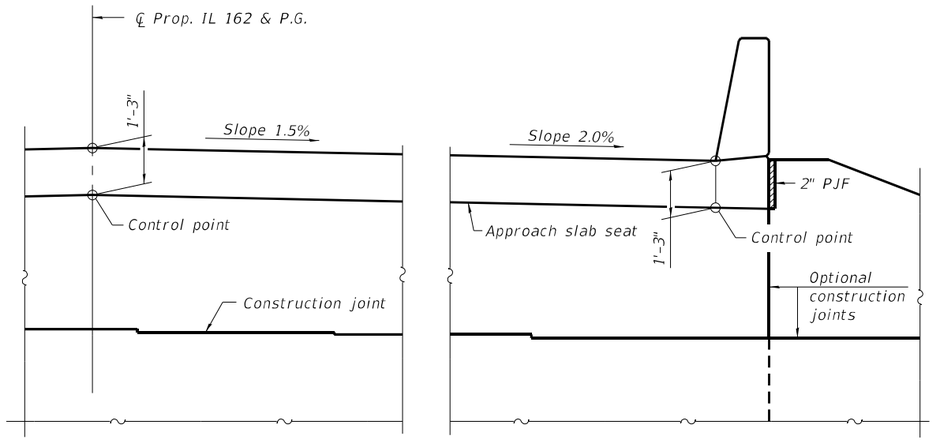
MINIMUM BAR LAP

#6 bar = 4'-0"

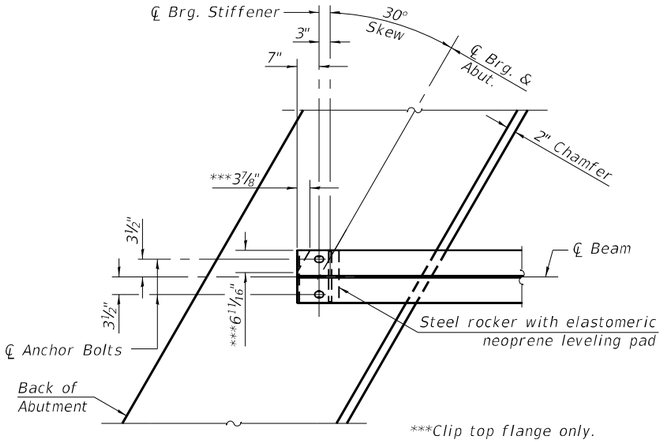


SECTION A-A

(at Rt. ℄'s)



VIEW B-B



***Clip top flange only.

PLAN AT WEST ABUTMENT

(Showing bottom flange of beam and top flange clip)

Notes:
See sheet 14 of 31 for superstructure details and Bill of Material.
See sheet 17 of 31 for PJF details.
The s10(E) and s11(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.
Bars indicated thus 4x2-#6 etc. indicates 4 lines of bars with 2 lengths per linees.

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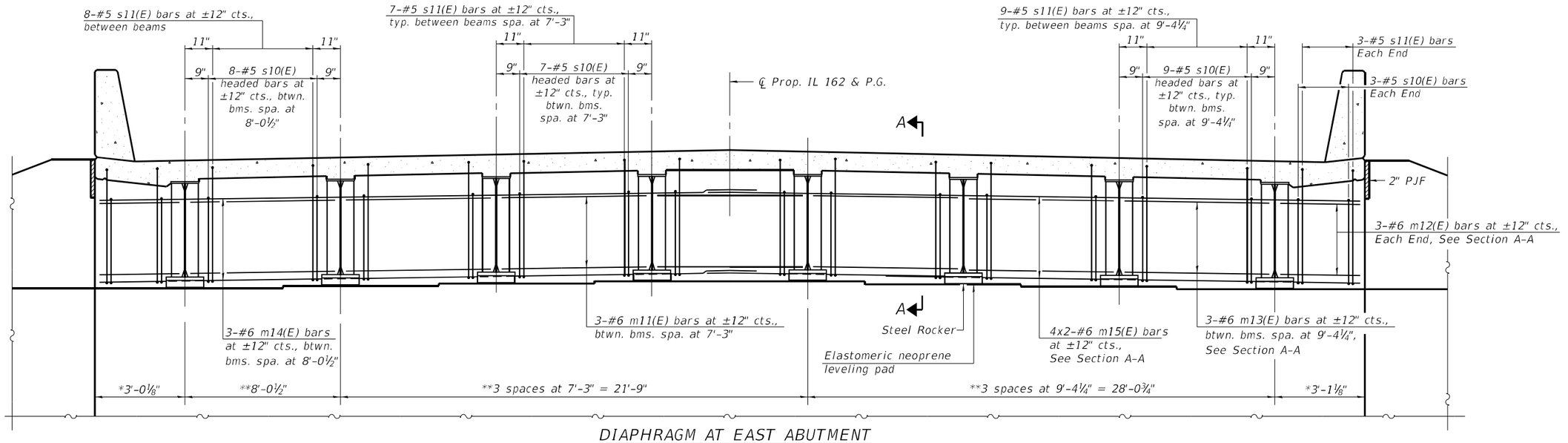
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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST DIAPHRAGM DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 15 OF 31 SHEETS

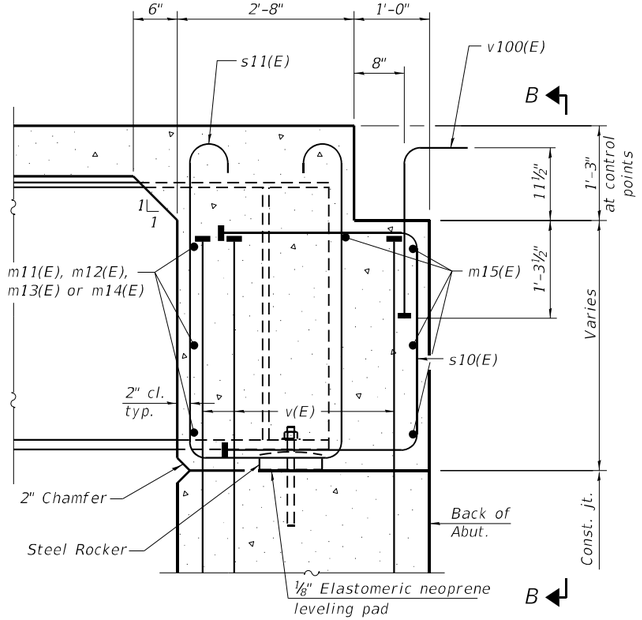
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	198
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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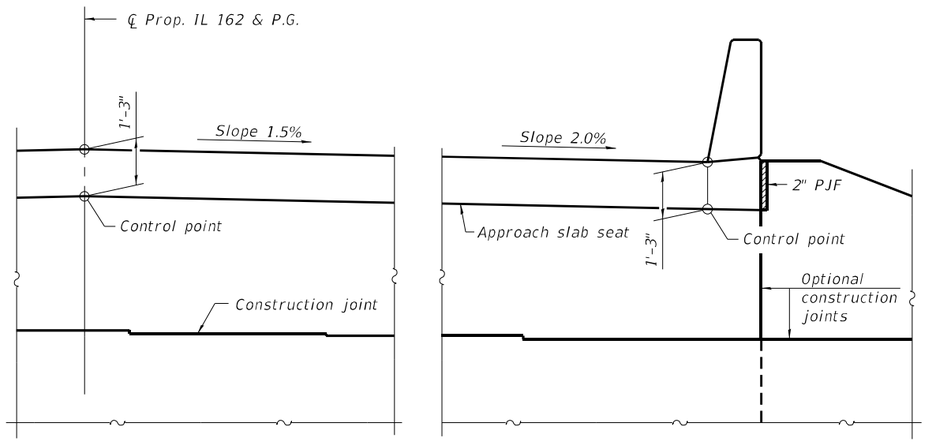
DIAPHRAGM AT EAST ABUTMENT

*Perpendicular to Fascia Beam.
**Perpendicular to ℄ Prop. IL 162.

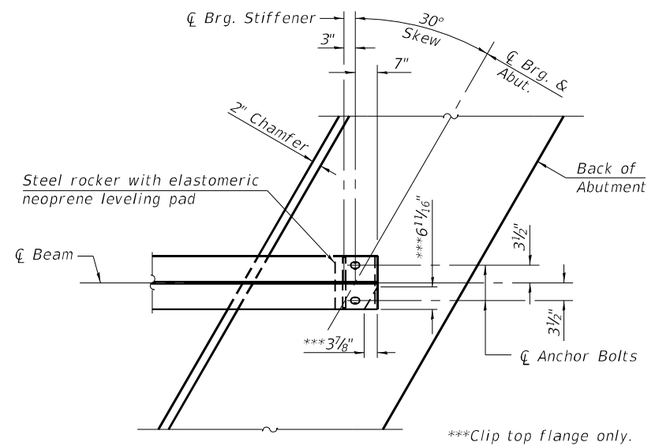


SECTION A-A

(at Rt. ∠'s)



VIEW B-B



***Clip top flange only.

PLAN AT EAST ABUTMENT

(Showing bottom flange of beam and top flange clip)

Notes:
See sheet 14 of 31 for superstructure details and Bill of Material.
See sheet 19 of 31 for PJF details.
The s10(E) and s11(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.
Bars indicated thus 4x2-#6 etc. indicates 4 lines of bars with 2 lengths per line.

\\Voth\Roof\Production Files\2020\4220-0018\CAD\Bridge\Final Design\060024176A46 016 East Integral_Abutment_Diaphragm_Details.dgn

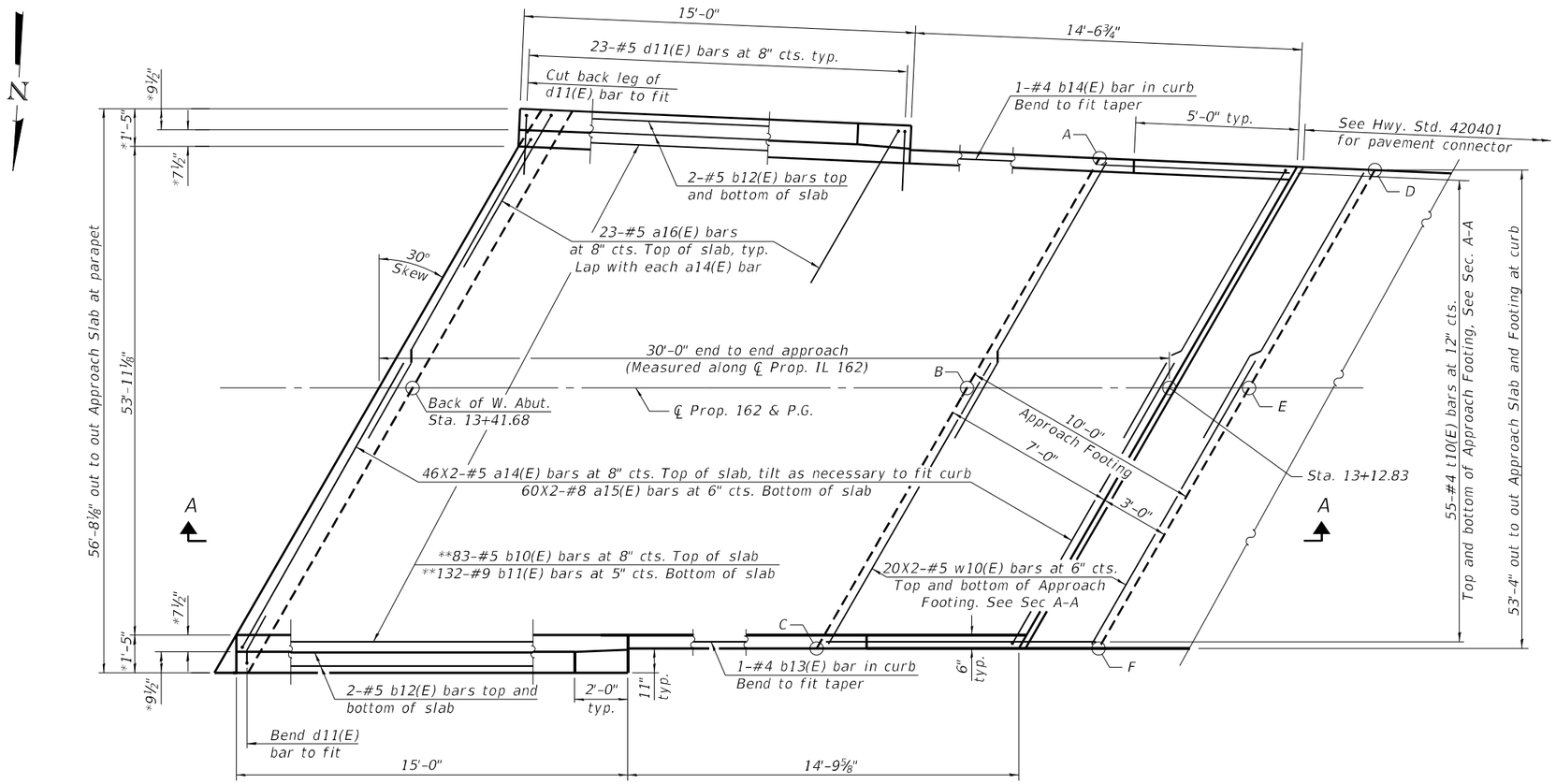
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PHONE: 618.667.3400

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST DIAPHRAGM DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 16 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	199
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



Notes:
Flare b10(E), b11(E) & t10(E) bars as required.
Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 length per line.
For additional stations and offsets, see sheet 10 of 31.

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Approach		
Point/Location	Top	Bottom
A – South Edge of Slab	444.69	443.86
B – ℄ Prop. IL 162	445.25	444.42
C – North Edge of Slab	444.89	444.05
D – South Edge of Slab	444.62	443.79
E – ℄ Prop, IL 162	445.17	444.34
F – North Edge of Slab	444.83	443.99

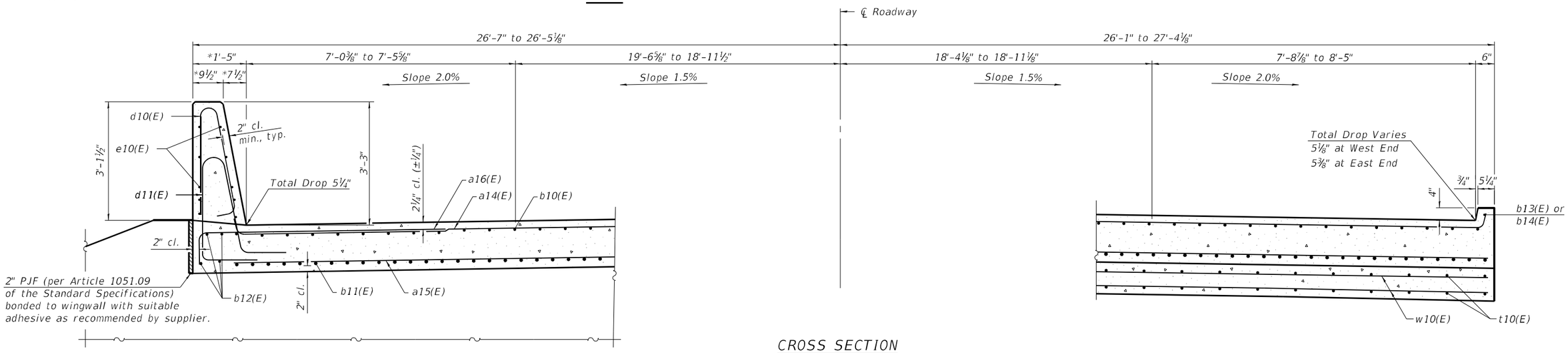
MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"

* Perpendicular to face of parapet.
** Cut to fit.

PLAN

NEAR ABUTMENT



CROSS SECTION

(Looking East)

AT APPROACH FOOTING

\\Vichi\Rad\Production Files\2020\420-0018\CAD\Bridge\Final Design\060024-76A46 017 Bridge_Approach_Slab_Details_West_Abut_1.dgn

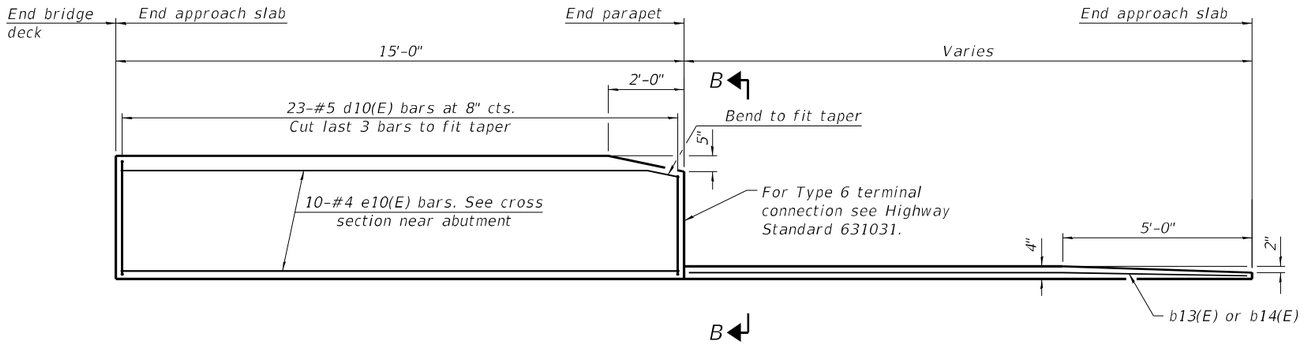
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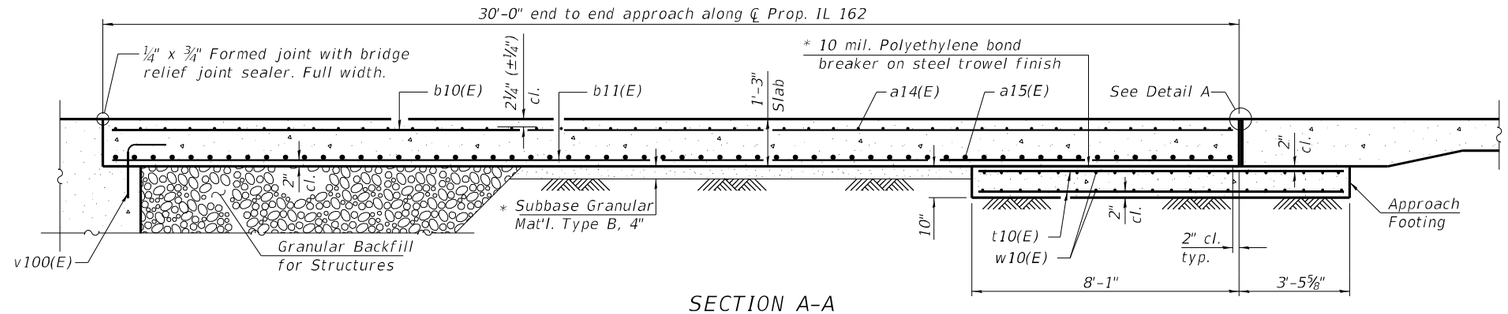
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 17 OF 31 SHEETS

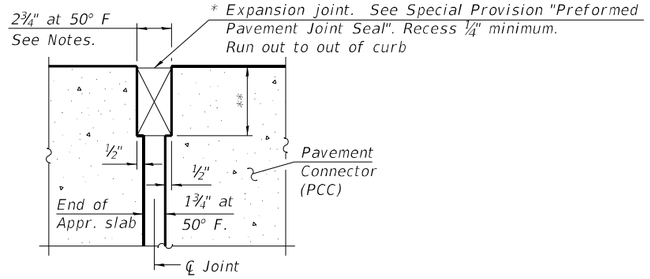
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	200
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF PARAPET AND CURB



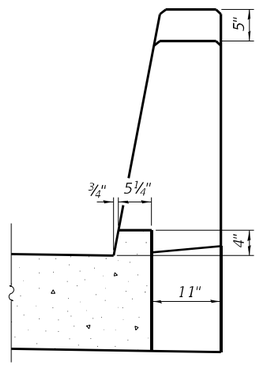
SECTION A-A



DETAIL A
(at Rt. ∠'s)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations



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.

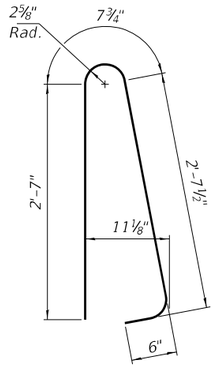
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

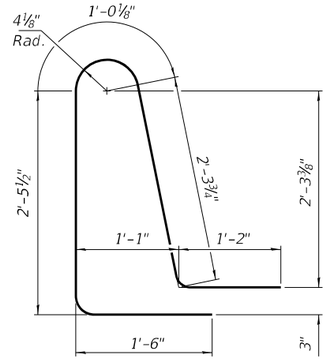
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

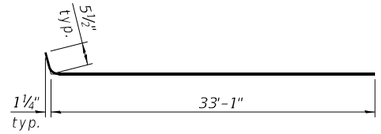
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.



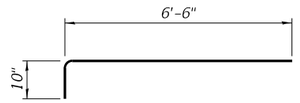
BAR d10(E)



BAR d11(E)



BAR a14(E)



BAR a16(E)

WEST APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a14(E)	92	#5	33'-7"	
a15(E)	120	#8	33'-10"	
a16(E)	46	#5	7'-4"	
b10(E)	83	#5	29'-8"	
b11(E)	132	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	1	#4	14'-9"	
b14(E)	1	#4	14'-3"	
d10(E)	46	#5	6'-5"	
d11(E)	46	#5	8'-6"	
e10(E)	20	#4	14'-8"	
t10(E)	110	#4	10'-11"	
w10(E)	80	#5	32'-7"	
Concrete Structures			Cu. Yd.	19.2
Concrete Superstructure			Cu. Yd.	3.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	76.8
Reinforcement Bars, Epoxy Coated			Pound	33,260

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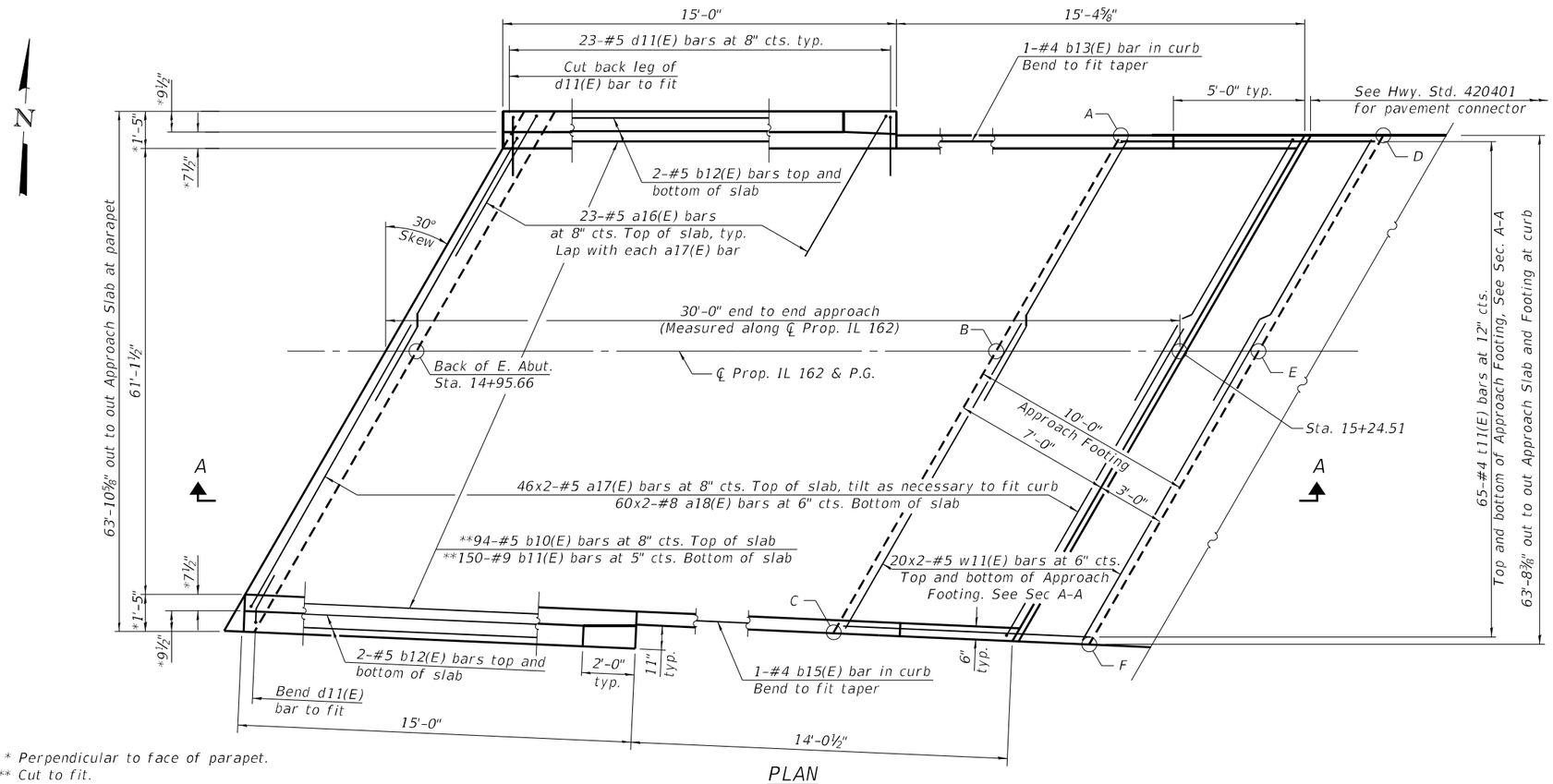
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 18 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	201
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



PLAN

* Perpendicular to face of parapet.
** Cut to fit.

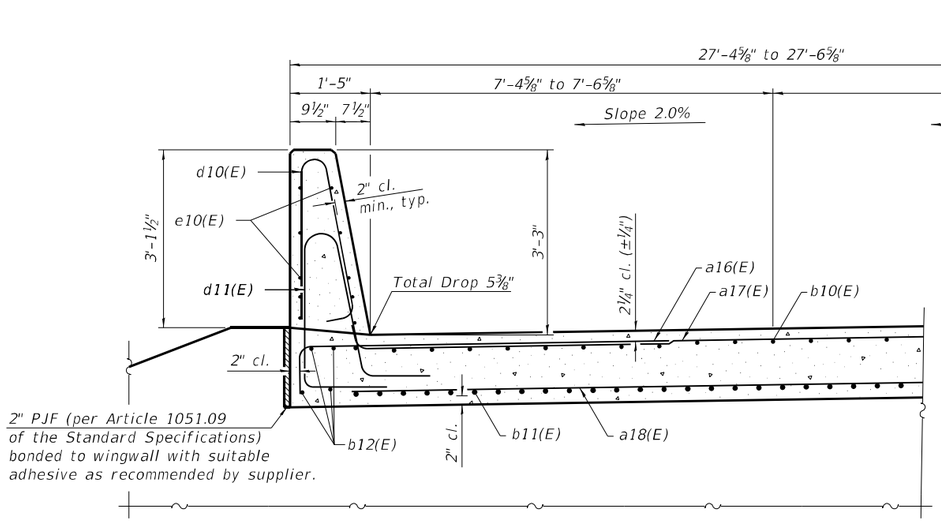
Notes:
Flare b10(E), b11(E) & t11(E) bars as required.
Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.
For additional stations and offsets, see sheet 11 of 31.

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

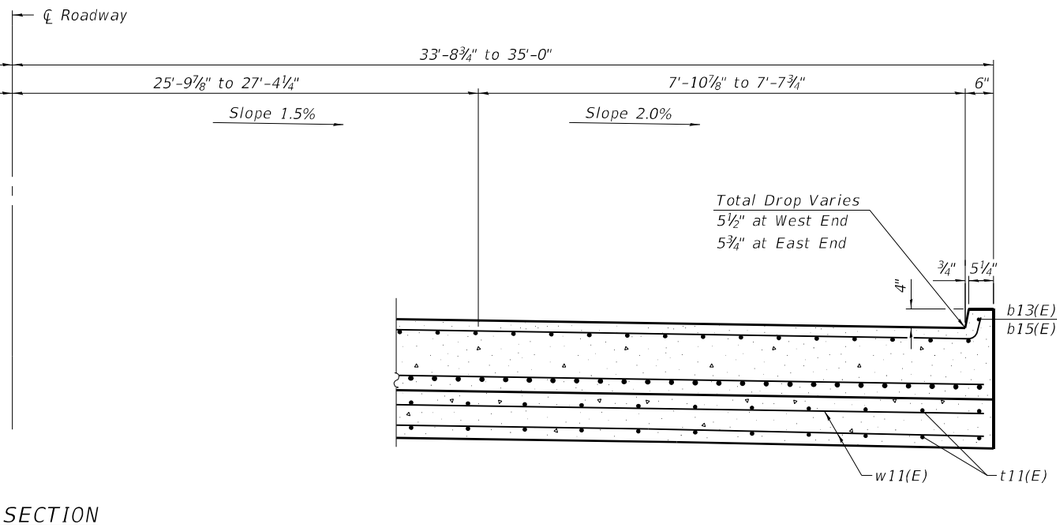
Approach		
Point/Location	Top	Bottom
A - North Edge of Slab	444.57	443.74
B - ℄ Prop. IL 162	445.11	444.28
C - South Edge of Slab	444.64	443.81
D - North Edge of Slab	444.51	444.68
E - ℄ Prop. IL 162	445.06	444.23
F - South Edge of Slab	444.58	443.75

MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"



NEAR ABUTMENT



CROSS SECTION
(Looking East)

AT APPROACH FOOTING

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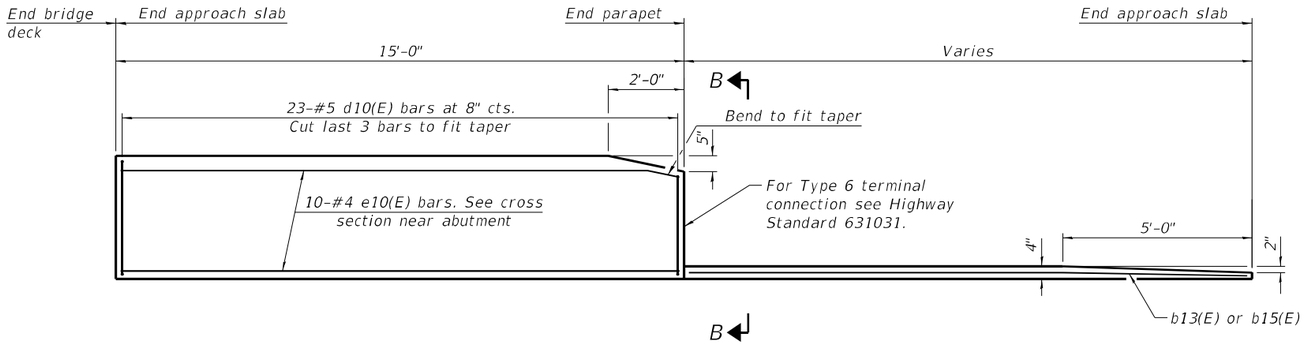
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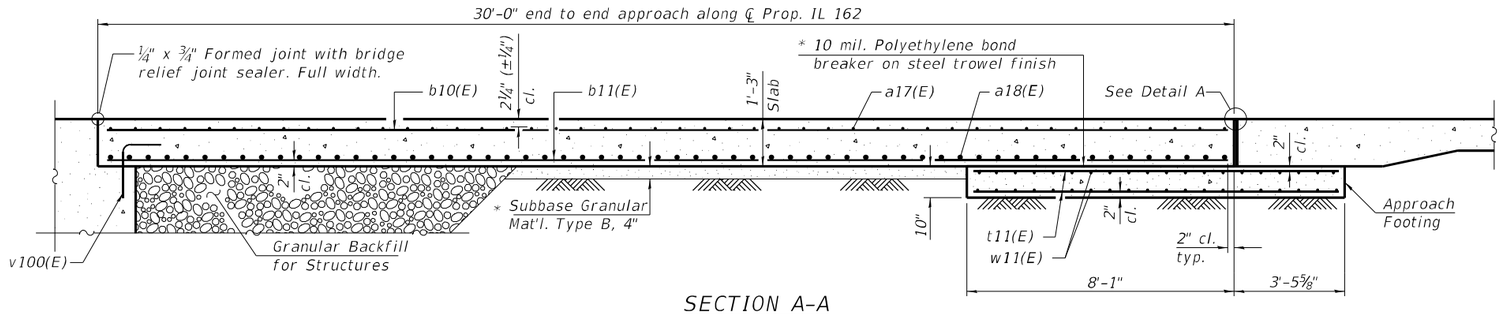
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 19 OF 31 SHEETS

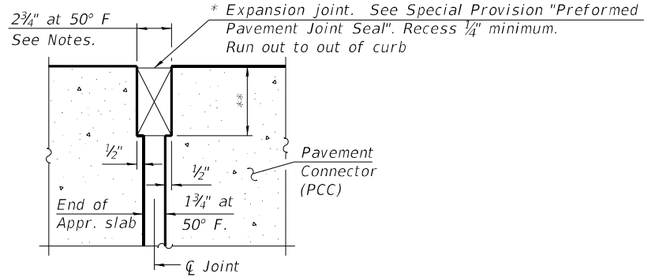
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	202
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF PARAPET AND CURB



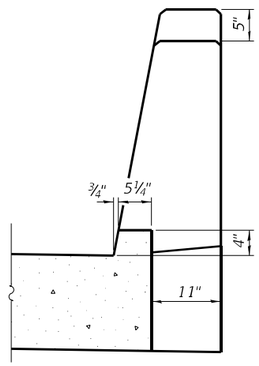
SECTION A-A



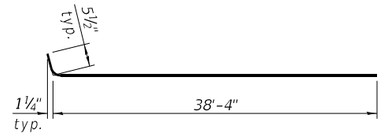
DETAIL A
(at Rt. ∠'s)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations



VIEW B-B



BAR a17(E)

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 31.

For a16(E), d10(E) and d11(E) bar details, see sheet 18 of 31.

EAST APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a16(E)	46	#5	7'-4"	
a17(E)	92	#5	38'-10"	
a18(E)	120	#8	39'-1"	
b10(E)	94	#5	29'-8"	
b11(E)	150	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	1	#4	14'-9"	
b15(E)	1	#4	13'-9"	
d10(E)	46	#5	6'-5"	
d11(E)	46	#5	8'-6"	
e10(E)	20	#4	14'-8"	
t11(E)	130	#4	11'-0"	
w11(E)	80	#5	38'-3"	
Concrete Structures			Cu. Yd.	22.7
Concrete Superstructure			Cu. Yd.	3.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	88.8
Reinforcement Bars, Epoxy Coated			Pound	39,850

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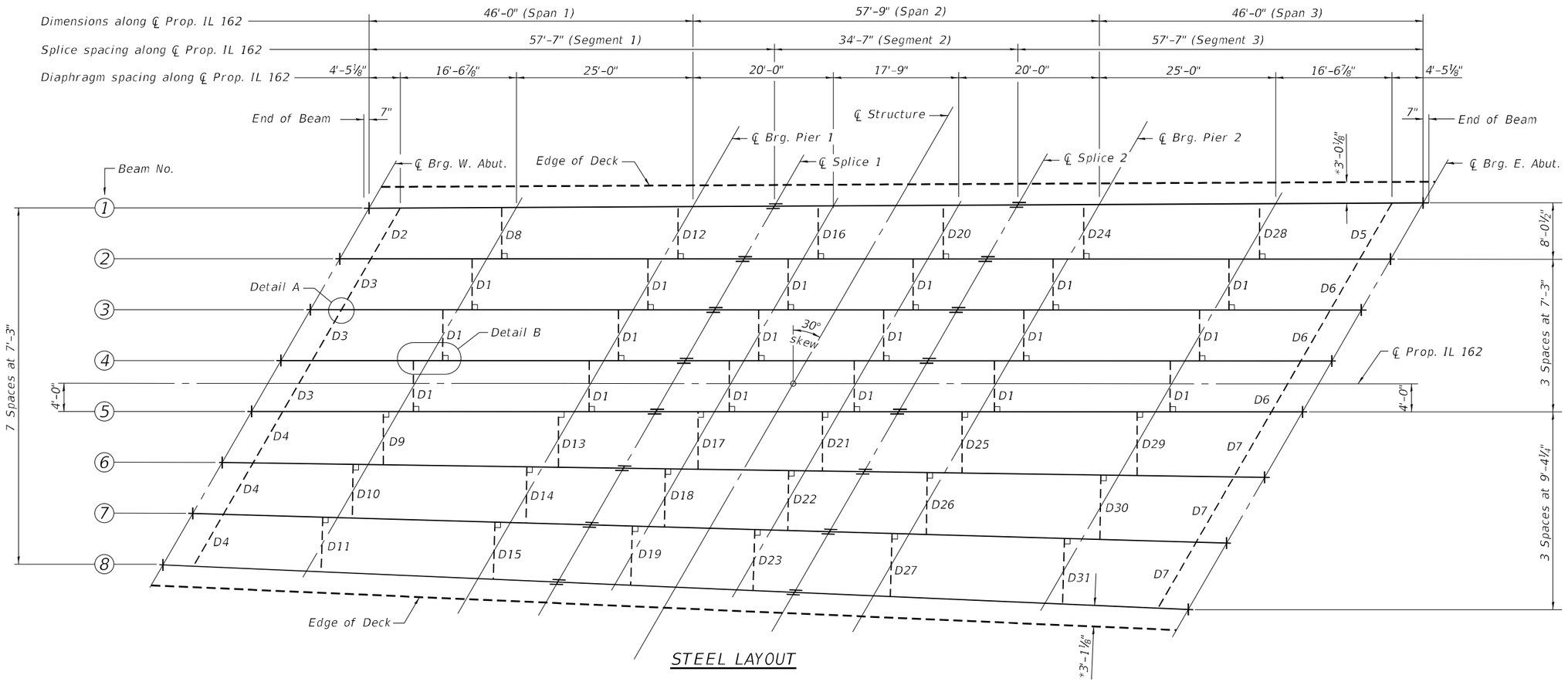
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PLOT SCALE =	DRAWN - WJS	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 20 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	203
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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STEEL LAYOUT

*Perpendicular to fascia beam

**TOP OF BEAM ELEVATIONS

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Splice 2	℄ Brg. Pier 2	℄ Brg. E. Abut.
Beam 1	445.48	445.54	445.56	445.47	445.41	445.20
Beam 2	445.60	445.68	445.70	445.64	445.58	445.37
Beam 3	445.70	445.79	445.82	445.77	445.71	445.50
Beam 4	445.79	445.88	445.91	445.90	445.84	445.63
Beam 5	445.76	445.88	445.91	445.88	445.83	445.64
Beam 6	445.63	445.76	445.80	445.76	445.71	445.53
Beam 7	445.50	445.63	445.67	445.64	445.59	445.41
Beam 8	445.33	445.46	445.50	445.49	445.44	445.27

** "For Fabrication Only"

Notes:

All diaphragms between beams shall be installed with erection pins and bolts in accordance with erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.

For Beam Dimension Tables, see sheet 22 of 31.

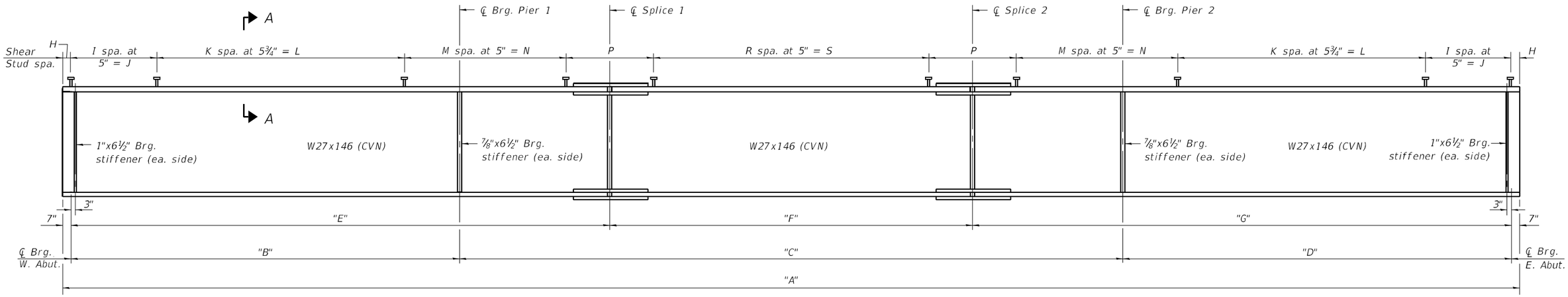
For diaphragm details and dimensions, see sheet 23 of 31.

For Detail A and B, see sheet 23 of 31.

***DIAPHRAGM LENGTHS

Diaphragm	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16
No. of Locations	18	1	3	3	1	3	3	1	1	1	1	1	1	1	1	1
Length	7'-3"	8'-4¾"	8'-4½"	8'-5⅜"	9'-3⅛"	8'-4½"	10'-8¾"	7'-4¼"	7'-6⅞"	7'-7⅝"	7'-8⅜"	7'-5¾"	7'-11⅛"	7'-11⅞"	8'-0⅝"	7'-7⅛"
Diaphragm	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31	
No. of Locations	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Length	8'-2½"	8'-3¼"	8'-4⅛"	7'-8¼"	8'-5½"	8'-6⅜"	8'-7⅛"	7'-9½"	8'-8⅞"	8'-9¾"	8'-10⅝"	7'-11"	9'-1⅛"	9'-2"	9'-2⅞"	

***Dimensions are taken along diaphragm from ℄ to ℄ beam.

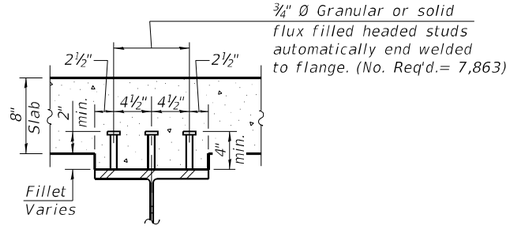


BEAM ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

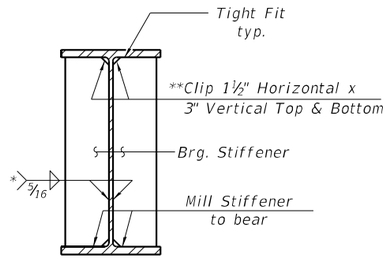
BEAM DIMENSION TABLE

Beam	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	R	S
1	151'-4⅜"	46'-1¾"	57'-11⅛"	46'-1¾"	57'-9⅛"	34'-8⅜"	57'-9⅛"	0'-3¾"	13	5'-5"	71	34'-0¼"	41	17'-1"	3'-0¼"	76	31-8"
2	150'-11"	46'-0"	57'-9"	46'-0"	57'-7"	34'-7"	57'-7"	0'-4¾"	12	5'-0"	71	34'-0¼"	41	17'-1"	3'-4"	75	31-3"
3	150'-11"	46'-0"	57'-9"	46'-0"	57'-7"	34'-7"	57'-7"	0'-4¾"	12	5'-0"	71	34'-0¼"	41	17'-1"	3'-4"	75	31-3"
4	150'-11"	46'-0"	57'-9"	46'-0"	57'-7"	34'-7"	57'-7"	0'-4¾"	12	5'-0"	71	34'-0¼"	41	17'-1"	3'-4"	75	31-3"
5	150'-11"	46'-0"	57'-9"	46'-0"	57'-7"	34'-7"	57'-7"	0'-4¾"	12	5'-0"	71	34'-0¼"	41	17'-1"	3'-4"	75	31-3"
6	149'-8⅝"	45'-7⅝"	57'-3½"	45'-7⅝"	57'-1½"	34'-3¾"	57'-1½"	0'-4⅛"	12	5'-0"	70	33'-6½"	41	17'-1"	3'-5¾"	74	30'-10"
7	148'-6⅝"	45'-3¼"	56'-10"	45'-3¼"	56'-8"	34'-0½"	56'-8"	0'-2¾"	16	6'-8"	60	28'-9"	48	20'-0"	3'-2½"	74	30'-10"
8	147'-4⅞"	44'-11⅛"	56'-4¾"	44'-11⅛"	56'-2⅞"	33'-9¼"	56'-2⅞"	0'-2½"	16	6'-8"	59	28'-3¼"	48	20'-0"	3'-4¼"	73	30'-5"



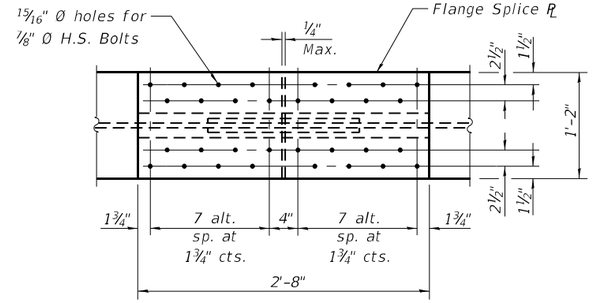
SECTION A-A

Notes:
Structural steel for beams and splices shall be AASHTO M270 Grade 50.

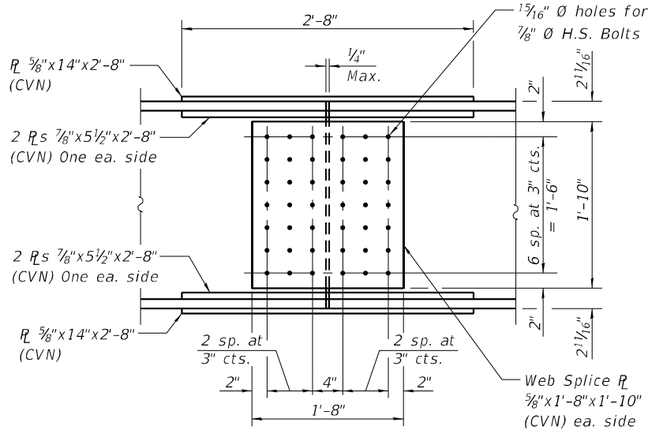


BEAM SECTION AT STIFFENER

* Terminate ¼" (±⅛") from the end of plate intersects.
** Clip may be rounded for ease of shop painting.



TOP & BOTTOM



ELEVATION FIELD SPLICE DETAIL

(16 Required)

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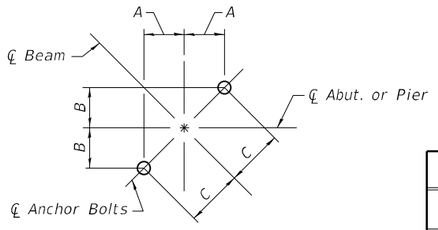
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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 060-0241
SHEET NO. 22 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	205
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



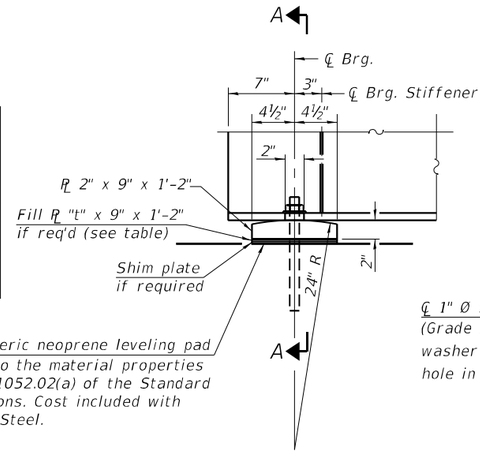
ANCHOR BOLT LAYOUT FOR FIXED BEARINGS AT ABUTMENTS AND PIERS

ANCHOR BOLT DIMENSIONS

Location	Beam No.	A	B	C
West & East Abutments	1-8	3"	1¾"	3½"
Piers 1 & 2	1-5	7¾"	4½"	9"
	6	7⅞"	4⅜"	9"
	7	7⅞"	4¼"	9"
	8	8"	4⅛"	9"

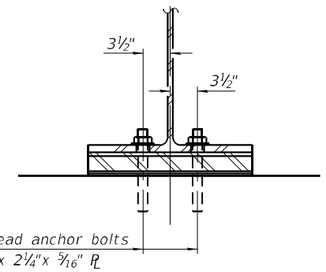
TABLE OF "t" DIMENSIONS

Beam No.	West Abut.	Pier 1	Pier 2	East Abut.
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	1 1/16"	-	⅛"	-
5	1 1/16"	-	-	⅛"
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-



ELEVATION AT ABUTMENT

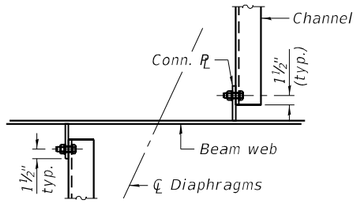
(16 Required)



SECTION A-A

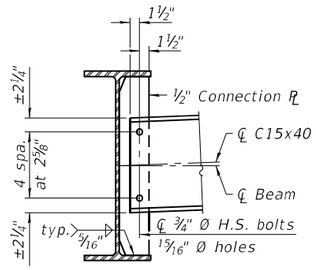
DETAIL A

(14 required on skew)

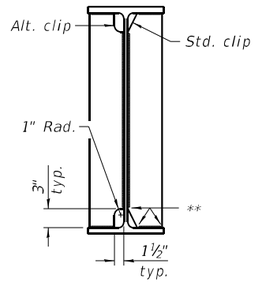


DETAIL B

(42 required perpendicular to beam)

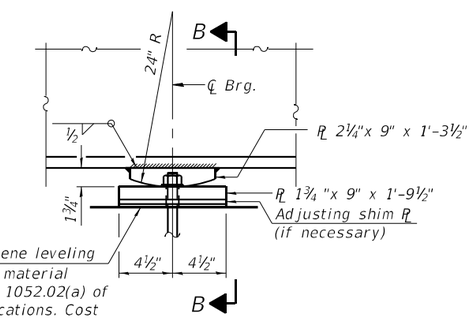


INTERIOR DIAPHRAGM



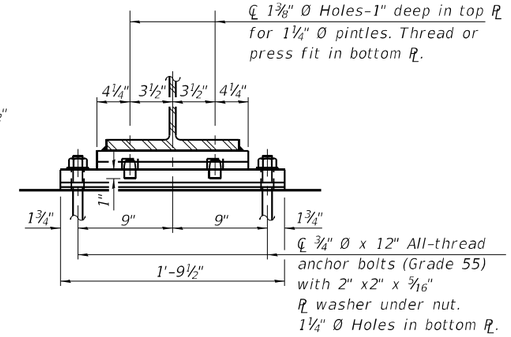
WELD LIMITS AND CLIP DETAILS

** Stop welds ¼" (±⅛") from edges as shown. Typical.



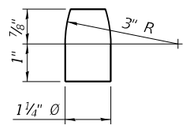
ELEVATION AT PIER

(16 Required)



SECTION B-B

FIXED BEARING



PINTLE

Notes:

Two ⅛ in. adjustment shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitutions of higher diameter and/or grade anchor bolts will not be allowed.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, ¾"	Each	32
Anchor Bolts, 1"	Each	32

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PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 060-0241
SHEET NO. 23 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	206
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

INTERIOR BEAM MOMENT TABLE (For Beam Line 6)						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
I_s	(in^4)	5,660	5,660	5,660	5,660	5,660
$I_c(n)$	(in^4)	17,108	17,108	17,463	17,463	17,750
$I_c(3n)$	(in^4)	12,680	12,680	13,062	13,062	13,380
$I_c(cr)$	(in^4)	———	8,203	———	8,360	———
S_s	(in^3)	414	414	414	414	414
$S_c(n)$	(in^3)	633	633	638	638	641
$S_c(3n)$	(in^3)	575	575	581	581	585
$S_c(cr)$	(in^3)	———	492	———	496	———
S_x	(in^3)	———	———	———	———	———
DC1	(k/')	0.943	1.020	1.020	1.089	1.089
M_{DC1}	('k)	137	274.3	151	298	164.6
DC2	(k/')	0.131	0.131	0.131	0.131	0.131
M_{DC2}	('k)	18.9	35.8	18.8	35.8	18.9
DW	(k/')	0.39	0.43	0.43	0.46	0.46
M_{DW}	('k)	54.2	110.3	61.4	122.1	68
LLDF		0.707	0.717	0.727	0.764	0.801
M_{L+IM}	('k)	518.9	498.5	558.5	531.2	587.9
f_f (Strength I)	(ksi)	0	0	0	0	0
$M_u + {}^1/_3 f_f S_x$	('k)	1,184	1,425	1,282	1,530	1,360
$\phi_f M_n$	('k)	3,298	———	3,307	———	3,325
f_s DC1	(ksi)	4.0	8.0	4.4	8.6	4.8
f_s DC2	(ksi)	0.4	0.9	0.4	0.9	0.4
f_s DW	(ksi)	1.1	2.7	1.3	3.0	1.4
f_s (L+IM)	(ksi)	9.8	12.2	10.5	12.9	11.0
f_f (Service II)	(ksi)	0	0	0	0	0
$f_s + {}^{f_f}/_2$ (Service II)	(ksi)	18.3	27.3	19.7	29.2	20.9
Service II Resistance	(ksi)	47.5	47.5	47.5	47.5	47.5
$f_s + {}^{f_f}/_3$ (Strength I)	(ksi)	24.4	36.3	26.3	38.8	27.8
$\phi_f F_n$	(ksi)	———	50.0	———	47.8	———
V_f	(k)	26.9	32.0	32.0	32.0	28.0

BEAM REACTION TABLE (For Beam Line 6)					
		W. Abut.	Pier 1	Pier 2	E. Abut.
LLDF		0.888	0.948	0.948	1.001
OCF		1.12	1.12	1.12	1.12
R_{DC1}	(k)	16.4	58.2	62.9	19.2
R_{DC2}	(k)	2.2	7.6	7.6	2.2
R_{DW}	(k)	6.5	23.4	25.7	7.9
R_L	(k)	60.3	115.3	122.4	68.0
R_{IM}	(k)	15.98	26.15	27.75	18.0
R_{Total} (Strength I)(Impact)	(k)	166.6	364.9	389.4	189.2
R_{Total} (Strength I)(No Impact)	(k)	138.6	319.1	340.9	157.6

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange ($in.^3$).

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.).

M_u : Strength I load combination of factored design moments (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

f_f : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).

$\phi_f M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (L + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$ or $M_{L+IM} / S_c(cr)$ as applicable.

$f_s + f_f/2$ (Service II): Sum of stresses as computed below (ksi).
f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (L + IM) + $f_f/2$

Service II Resistance: Composite ($0.95R_hF_{yf}$) or noncomposite ($0.80R_hF_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).

$f_s + f_f/3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (L + IM) + $f_f/3$

$\phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

V_f : Maximum factored shear range in span computed according to Article 6.10.10.

OCF: Obtuse Correction Factor 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): Strength I load combination of factored design reactions (kip).
$1.25\ (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75\ (R_L + R_{IM})$

R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
$1.25\ (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75\ (R_L)$

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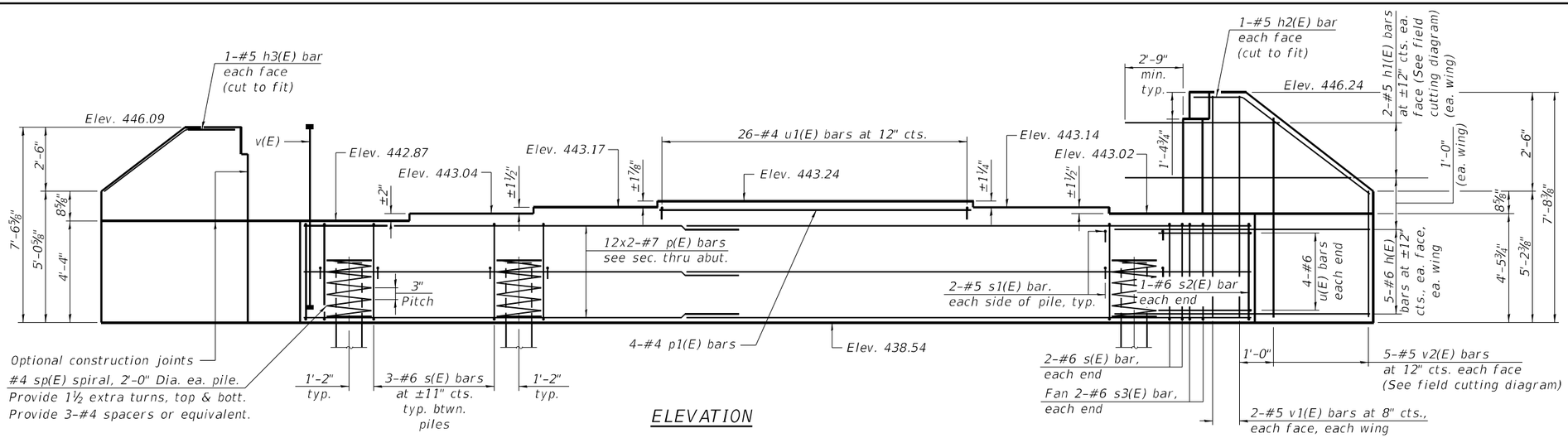
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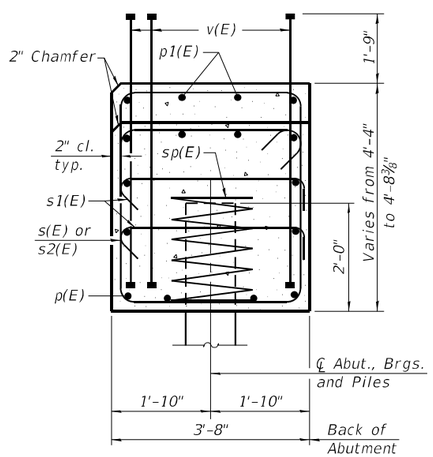
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 060-0241
SHEET NO. 24 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	207
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



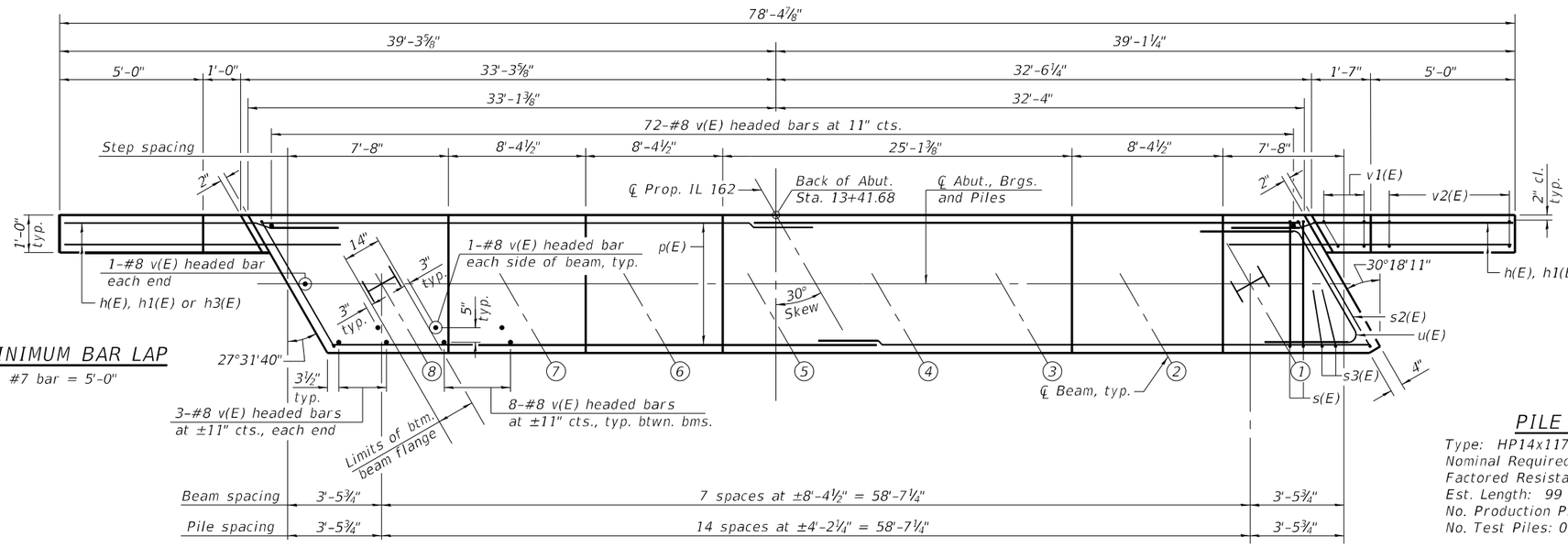
ELEVATION



SEC. THRU ABUT.

Dimensions at right angles to abutment.





MINIMUM BAR LAP

#7 bar = 5'-0"

PLAN

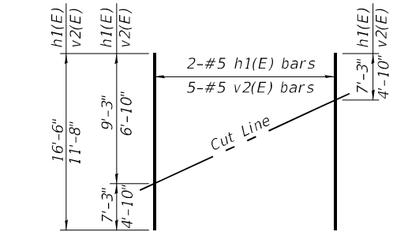
PILE DATA

Type: HP14x117
Nominal Required Bearing: 929 kips
Factored Resistance Available: 490 kips
Est. Length: 99 ft
No. Production Piles: 15
No. Test Piles: 0

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#6	9'-4"	
h1(E)	4	#5	16'-6"	
h2(E)	2	#5	6'-10"	
h3(E)	2	#5	6'-10"	
p(E)	24	#7	35'-2"	
p1(E)	4	#4	24'-9"	
s(E)	46	#6	16'-0"	
s1(E)	60	#5	4'-4"	
s2(E)	2	#6	16'-11"	
s3(E)	4	#6	9'-4"	
* sp(E)	15	#4	2'-0"	
u(E)	8	#6	12'-6"	
u1(E)	26	#4	7'-4"	
v(E)	152	#8	6'-3"	
v1(E)	8	#5	7'-3"	
v2(E)	10	#5	11'-8"	
Structure Excavation		Cu. Yd.	210	
Concrete Structures		Cu. Yd.	44.4	
Reinforcement Bars, Epoxy Coated		Pound	7,360	
Furnishing Steel Piles HP14x117		Foot	1,485	
Driving Piles		Foot	1,485	

*Length is height of spiral



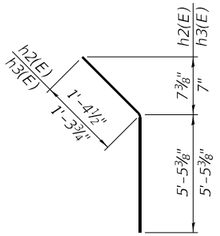
FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing face.

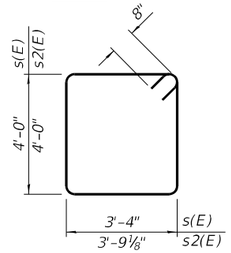


BAR v(E)

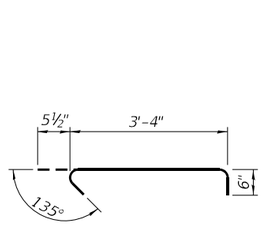
(Headed)



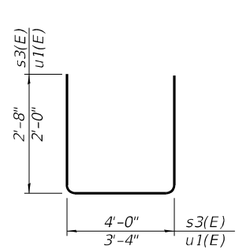
BARS h2(E) & h3(E)



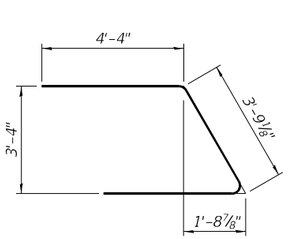
BARS s(E) & s2(E)



BAR s1(E)



BARS s3(E) & u1(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 29 of 31.
For anchor bolt detail, see sheet 23 of 31.

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PHONE: 618.667.1400

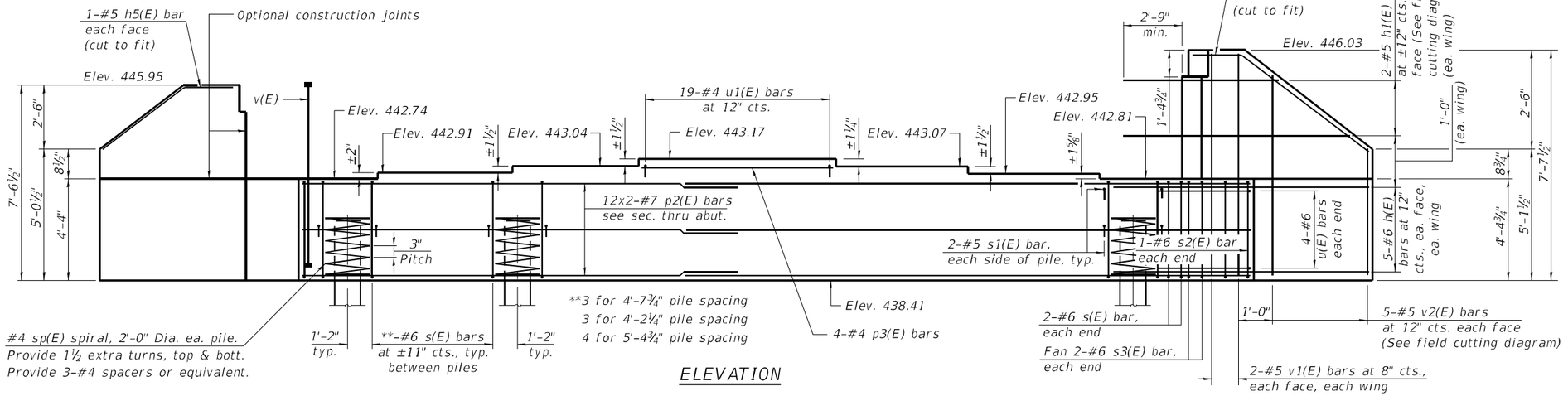
USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

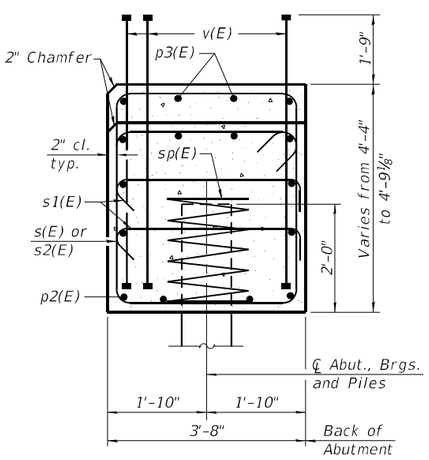
WEST ABUTMENT
STRUCTURE NO. 060-0241
SHEET NO. 25 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	208
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

\\Loch\Rad\Production Files\2020\420-0018\CAD\Bridges\Final Design\060024-76A46-025 West_Abut_Details.dgn

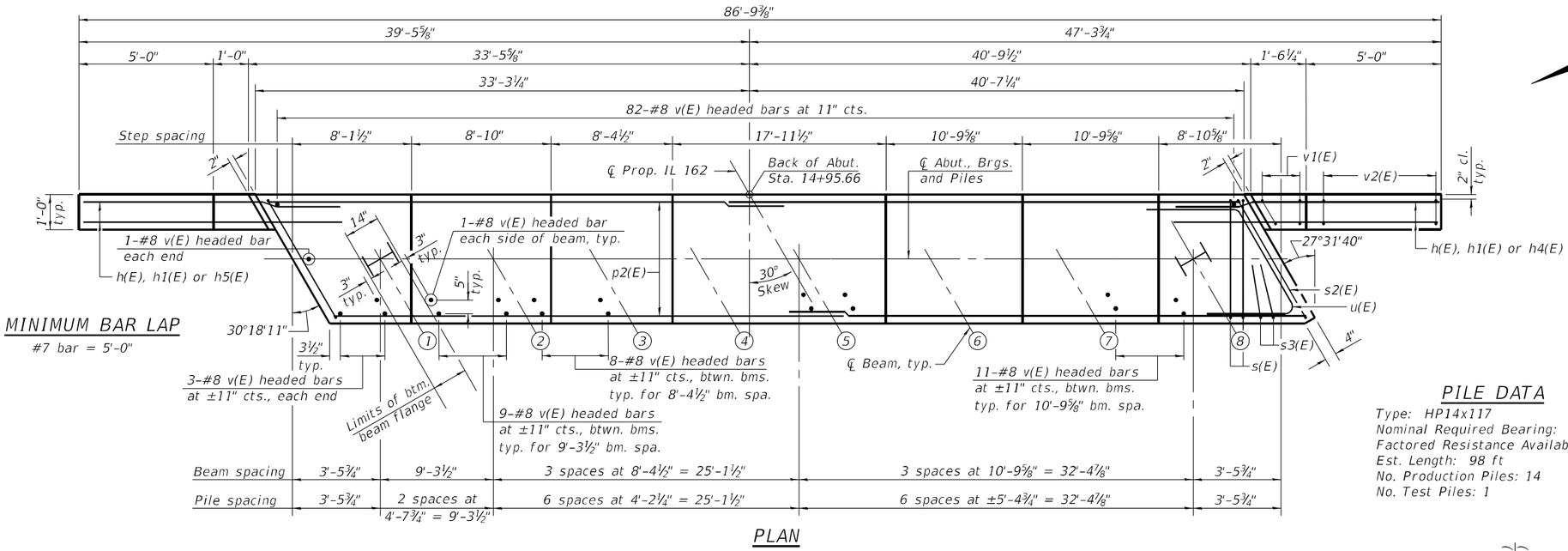


ELEVATION



SEC. THRU ABUT.

Dimensions at right angles to abutment.



PLAN

MINIMUM BAR LAP

#7 bar = 5'-0"

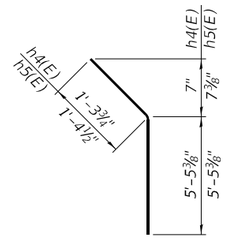
PILE DATA

Type: HP14x117
Nominal Required Bearing: 929 kips
Factored Resistance Available: 492 kips
Est. Length: 98 ft
No. Production Piles: 14
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#6	9'-4"	
h1(E)	4	#5	16'-6"	
h4(E)	2	#5	6'-10"	
h5(E)	2	#5	6'-10"	
p2(E)	24	#7	39'-3"	
p3(E)	4	#4	17'-8"	
s(E)	52	#6	16'-0"	
s1(E)	60	#5	4'-4"	
s2(E)	2	#6	16'-11"	
s3(E)	4	#6	9'-4"	
* sp(E)	15	#4	2'-0"	
u(E)	8	#6	12'-6"	
u1(E)	19	#4	7'-4"	
v(E)	172	#8	6'-3"	
v1(E)	8	#5	7'-3"	
v2(E)	10	#5	11'-8"	
Structure Excavation		Cu. Yd.	231	
Concrete Structures		Cu. Yd.	49.3	
Reinforcement Bars, Epoxy Coated		Pound	7,980	
Furnishing Steel Piles HP14x117		Foot	1,372	
Driving Piles		Foot	1,372	
Test Pile Steel HP14x117		Each	1	

*Length is height of spiral



BARS h4(E) & h5(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 29 of 31.
For anchor bolt detail, see sheet 23 of 31.
For s(E), s1(E), s2(E) u(E) and u1(E) bar details, see sheet 25 of 31.
For h1(E) and v2(E) filed cutting diagram, see sheet 25 of 31.

LOCHMUELLER GROUP
1928 Sirk Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 060-0241
SHEET NO. 26 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	209
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

\\Loch\Rosh\Production\Files\2020\420-009\C\ADs\Bridge\Final Design\060024\76446-026-East_Abut_Details.dgn

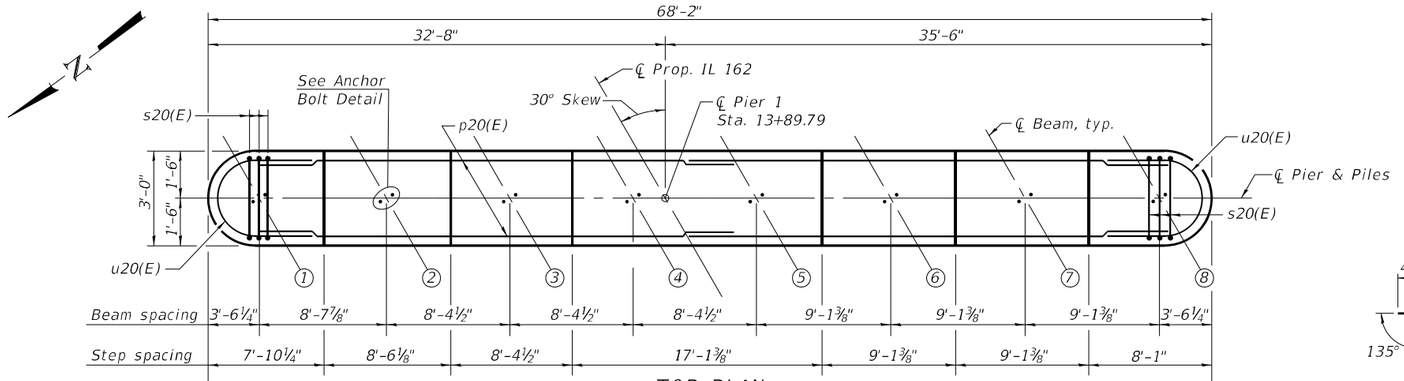
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 29 of 31.
For anchor bolt detail, see sheet 23 of 31.

PILE DATA

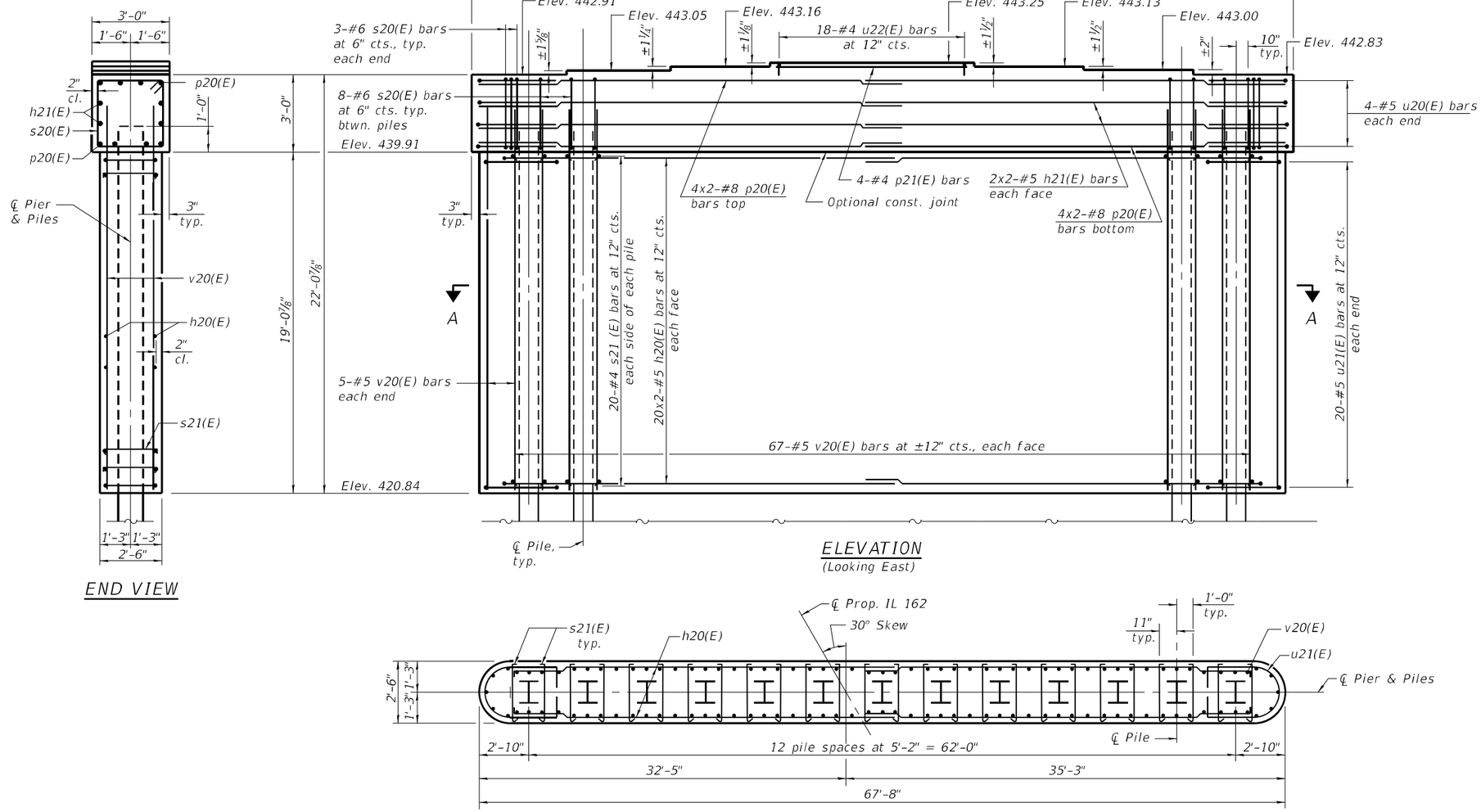
Type: HP14x117
Nominal Required Bearing: 929 kips
Factored Resistance Available: 508 kips
Est. Length: 99 ft.
No. Production Piles: 13
No. Test Piles: 0

MINIMUM BAR LAP

#5 bar = 3'-9" lap
#8 bar = 5'-9" lap



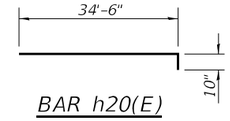
TOP PLAN



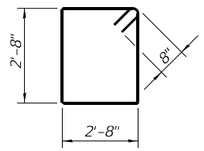
ELEVATION
(Looking East)

END VIEW

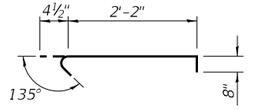
SECTION A-A



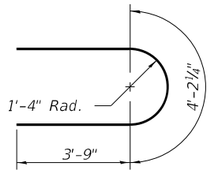
BAR h20(E)



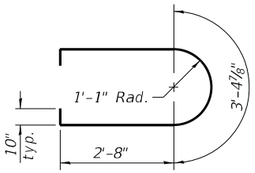
BAR s20(E)



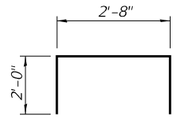
BAR s21(E)



BAR u20(E)



BAR u21(E)



BAR u22(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	80	#4	35'-4"	
h21(E)	8	#5	34'-6"	
p20(E)	16	#8	35'-6"	
p21(E)	4	#4	16'-9"	
s20(E)	102	#6	12'-0"	
s21(E)	520	#4	3'-3"	
u20(E)	8	#5	11'-9"	
u21(E)	40	#5	10'-5"	
u22(E)	18	#4	6'-8"	
v20(E)	144	#5	21'-3"	
Cofferdam Excavation		Cu. Yd.	468	
Cofferdam (Type 2) (Location-3)		Each	1	
Concrete Structures		Cu. Yd.	142.2	
Reinforcement Bars, Epoxy Coated		Pound	10,520	
Furnishing Steel Piles, HP14x117		Foot	1,287	
Driving Piles		Foot	1,287	

LOCHMUELLER GROUP
1928 S/A Bradley R. Smith Drive
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PHONE: 618.667.1400

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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 27 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	210
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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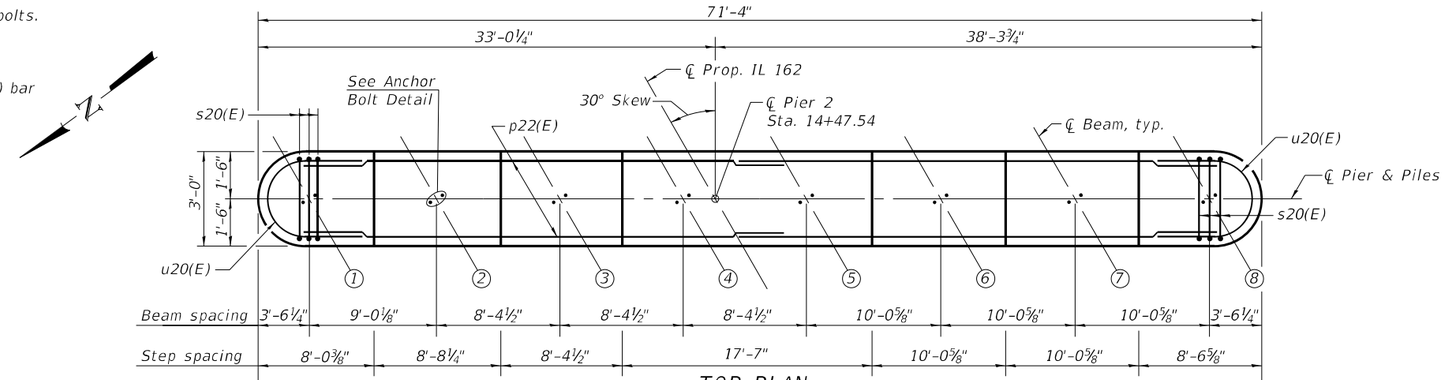
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 29 of 31.
For anchor bolt detail, see sheet 23 of 31.
For s20(E), s21(E), u20(E), u21(E) and u22(E) bar details, see sheet 27 of 31.

PILE DATA

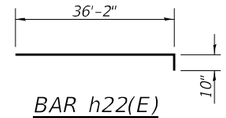
Type: HP14x117
Nominal Required Bearing: 929 kips
Factored Resistance Available: 505 kips
Est. Length: 98 ft.
No. Production Piles: 13
No. Test Piles: 0

MINIMUM BAR LAP

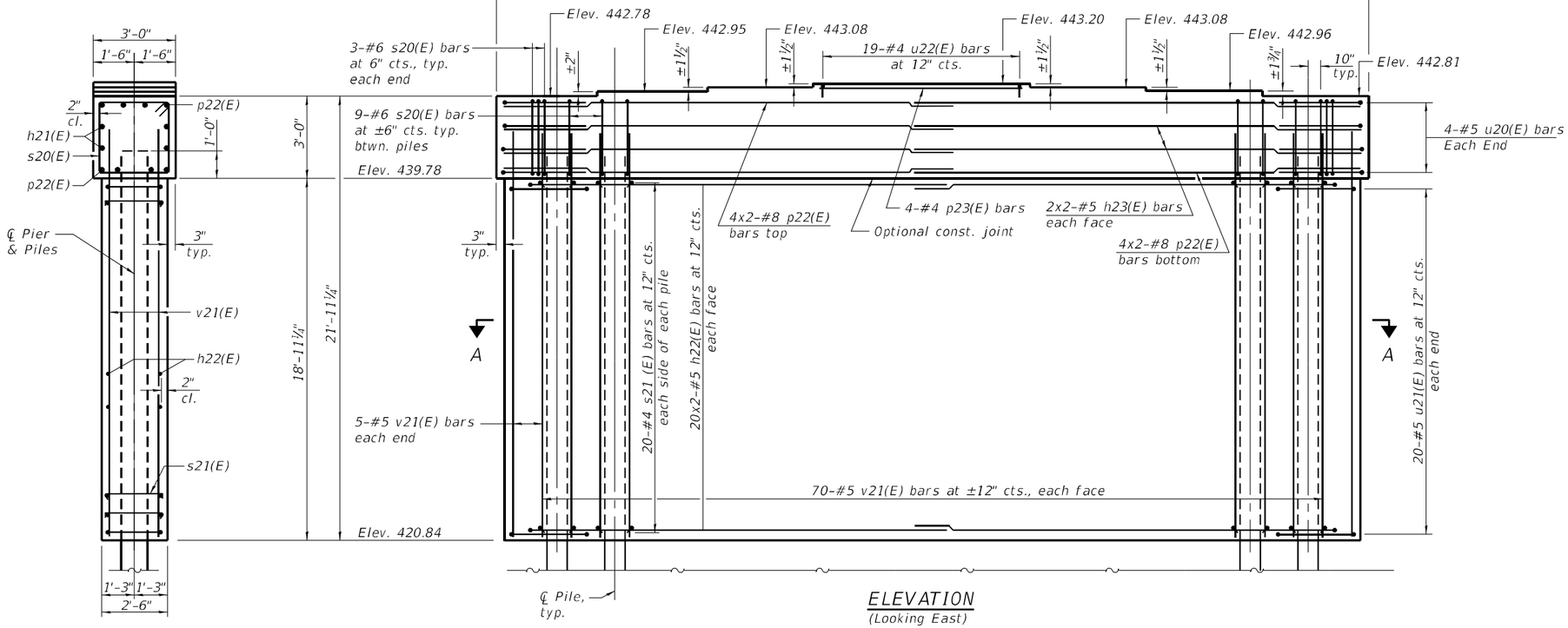
#5 bar = 3'-9" lap
#8 bar = 5'-9" lap



TOP PLAN



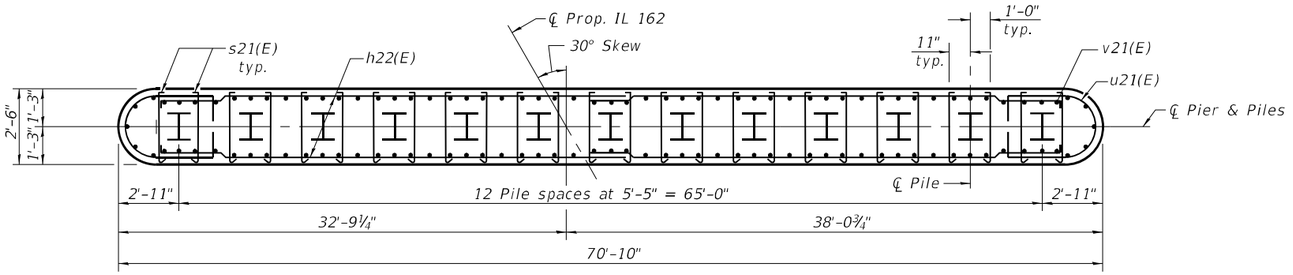
BAR h22(E)



ELEVATION
(Looking East)



END VIEW



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h22(E)	80	#5	37'-0"	
h23(E)	8	#5	36'-2"	
p22(E)	16	#8	37'-1"	
p23(E)	4	#4	17'-3"	
s20(E)	114	#6	12'-0"	
s21(E)	520	#4	3'-3"	
u20(E)	8	#5	11'-9"	
u21(E)	40	#5	10'-5"	
u22(E)	19	#4	6'-8"	
v21(E)	150	#5	21'-2"	
Cofferdam Excavation		Cu. Yd.	452	
Cofferdam (Type 2) (Location-4)		Each	1	
Concrete Structures		Cu. Yd.	153.8	
Reinforcement Bars, Epoxy Coated		Pound	12,140	
Furnishing Steel Piles, HP14x117		Foot	1,274	
Driving Piles		Foot	1,274	

LOCHMUELLER GROUP
1928 S/A Bradley B. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

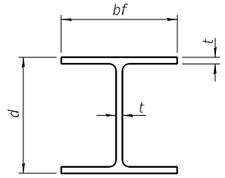
USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 28 OF 31 SHEETS

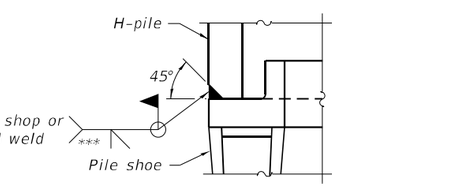
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	211
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

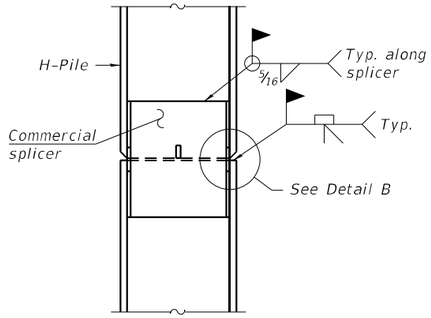


ELEVATION

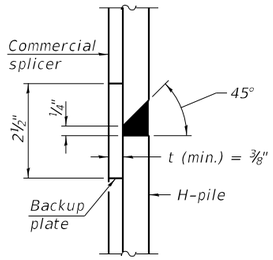
DETAIL A

SHOE ATTACHMENT

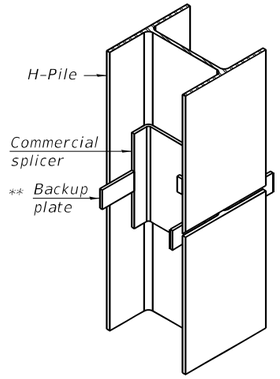
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

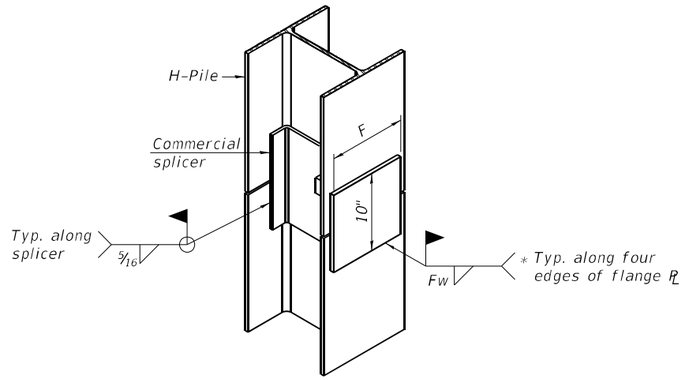


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



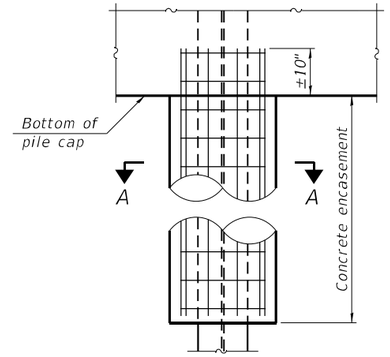
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

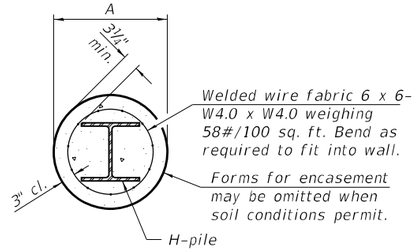
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



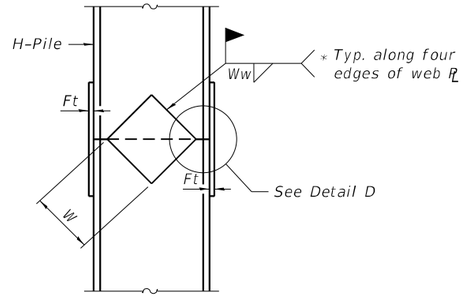
ELEVATION



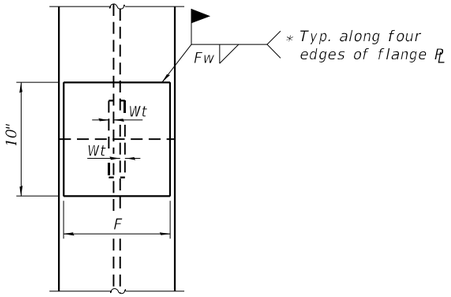
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

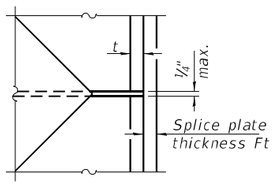
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 5-15-2023

LOCHMUELLER GROUP
1928 Sirk Bradley R. Smith Drive
Troy, IL 62294
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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 060-0241
SHEET NO. 29 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	212
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 2/25,26/2022

ROUTE Route 157/162 DESCRIPTION PTB 195, Item 57 IL-162 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740588 Long -90.003715

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0241
Station 14+18.67

BORING NO. B-3
Station 13+20
Offset 13 ft RT
Ground Surface Elev. 437.0 ft

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

Groundwater Elev.:
First Encounter 423.5 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				FILL: Brown SILTY LOAM (A-4), trace rocks and cinders, moist, stiff
	2 3 8	2.5 P	17	
434.0				
				FILL: Brown CINDERS w/ layers of Silty Loam (A-2), medium dense
	6 8 6	3.8 P	17	
-5				
431.5				
				FILL: Brown SAND w/ Silty Loam (A-2), moist
	3 5 5	2.3 P	18	
429.0				
				FILL: Brown CINDERS w/ layers of Silty Loam (A-2), medium dense
	2 2 2	NC	24	
-10				
426.5				
				Gray and Brown LOAM (A-4) w/ sand deposits, moist, soft *Percentage finer than #200 test performed (22.5% finer)*
	WOH 1 2	0.3 B/20%	30	
424.0				
				Brown SAND (A-2), loose, fine to coarse, trace coal, organics and fine gravel *Percentage finer than #200 test performed (20.6% finer)*
	2 1 1	NC	NC	
-15				
	2 4 3	NC	NC	
419.0				
				Gray SILTY CLAY LOAM (A-6), very moist, soft *Percentage finer than #200 test performed (19.1% finer)*
418.0	2 5 7	NC	25	
-20				
				Brown SAND (A-3), fine, wet, medium dense *Percentage finer than #200 test performed (26.4% finer)* *(continued)* Becomes very loose
	WOH WOH WOH	NC	NC	
				Becomes medium dense
-25	5 5 5	NC	NC	
	5 7 9	NC	NC	
409.0				
				Brown and Gray SILTY LOAM (A-4), very moist, stiff
-30	4 6 4	3.6 S/15%	26	
	5 3 10	NC	26	
404.5				
				Gray SAND (A-3), fine, moist, medium dense
-35	11 12 12	NC	NC	
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 2/25,28/2022

ROUTE Route 157/162 DESCRIPTION PTB 195, Item 57 IL-162 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740588 Long -90.003715

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0241
Station 14+18.67

BORING NO. B-3
Station 13+20
Offset 13 ft RT
Ground Surface Elev. 437.0 ft

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

Groundwater Elev.:
First Encounter 423.5 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Gray SAND (A-3), fine, moist, medium dense *(continued)*
	13 14 17	NC	NC	
-45				
				Becomes very dense
390.0				
				Gray SAND (A-2), fine to coarse, moist, medium dense, trace fine gravel
	14 6 5	1.5 B/20%	20	
-50				
387.5				
				Gray SANDY CLAY LOAM (A-6), moist, stiff
385.0				
				Gray SILTY CLAY (A-6), moist, stiff
	5 5 8	2.6 B/20%	23	
-55				
				Becomes brown, trace gravel
-60	4 4 6	1.2 B/20%	22	
				Gray SILTY CLAY (A-6), moist, stiff *(continued)*
375.0				
				Brown SILTY CLAY LOAM (A-6), moist, stiff, w/ sand deposits
	3 5 4	0.8 B/20%	22	
-65				
370.0				
				Gray CLAY (A-7), moist, very stiff
	4 7 8	2.7 B/20%	27	
-70				
	4 5 7	2.2 B/20%	25	
-75				
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Illinois Department of Transportation
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SOIL BORING LOG

Date 2/25,28/2022

ROUTE Route 157/162 DESCRIPTION PTB 195, Item 57 IL-162 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740588 Long -90.003715

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0241
Station 14+18.67

BORING NO. B-3
Station 13+20
Offset 13 ft RT
Ground Surface Elev. 437.0 ft

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

Groundwater Elev.:
First Encounter 423.5 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Gray CLAY (A-7), moist, very stiff *(continued)*
355.0				
				Gray CLAY LOAM (A-7), moist, hard w/ weathered clayey shale
	12 14 19	2.6 S/15%	27	
-85				
351.2				
				Gray CLAYEY SHALE
	50/5.5"		13	
350.0	50/2.5"			
				Sampler Refusal at 87 feet. Borehole grouted upon completion.
	50/4.5" 50/1.5"		13	
-90				
-95				
-100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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LOCHMUELLER GROUP
1928 S/A Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.3400

USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 060-0241
SHEET NO. 30 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	213
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 03/03/22

ROUTE Route 157/162 **DESCRIPTION** PTB 195, Item 57 IL-162 over Judy's Branch **LOGGED BY** SCI

SECTION 51-1R **LOCATION** Madison County, Illinois, **SEC.** 4, **TWP.** 3N, **RNG.** 8W
Lat 38.740693 **Long** -90.003037

COUNTY Madison **DRILLING METHOD** CME 550 w/HSA and Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. SN 060-0241
Station 14+18.67

BORING NO. B-4
Station 15+14
Offset 14 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 419.5 ft ▼
Upon Completion N/A ft
After N/A **Hrs.** N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown SILTY CLAY LOAM (A-6), trace roots, medium stiff				
	436.5	2 4 3	1.5 P	27
Brown SILTY LOAM (A-4), moist, medium stiff				
	-5	2 1 2	0.2 S/10%	20
Becomes soft	432.5			
Brown SILTY CLAY LOAM (A-6), moist, soft		1 2 1	0.3 S/10%	28
	430.0			
Brown SILTY LOAM (A-4), moist, soft *Percentage finer than #200 test performed (22.6% finer)*	-10	1 2 1	0.2 S/10%	29
	427.5			
Brown with Gray SILTY CLAY LOAM (A-6), very moist, very soft *Percentage finer than #200 test performed (24.7% finer)*		WOH 1 1	<0.25 P	27
Atterberg Limits and Percentage finer than #200 test performed (25.1% passing #200, LL=35, PI=31)	-15	WOH 2 2	0.3 B/20%	31
Becomes gray with brown, moist and soft				
Becomes grayish brown		WOH WOH 1	0.2 B/20%	33
	418.0 -20	1 1 2	0.5 B/20%	36

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown fine SAND (A-3), loose				
	416.5	3 1 3	0.5 P	34
Grayish Brown SILTY CLAY LOAM (A-6), moist, soft				
	415.0			
Brown fine SAND (A-3), wet, medium dense	-25	5 7 11	NC	NC
	412.5			
Gray SILTY LOAM (A-4) w/ clay deposits, moist, stiff		7 5 8	2.0 P	23
	-30	5 6 5	1.5 P	20
	406.0			
Gray fine SAND (A-3), wet, medium dense	-35	8 10 13	NC	20
	401.0			
Brown SILTY CLAY LOAM (A-6), moist, stiff	-40	6 4 6	1.3 S/15%	23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 03/03/22

ROUTE Route 157/162 **DESCRIPTION** PTB 195, Item 57 IL-162 over Judy's Branch **LOGGED BY** SCI

SECTION 51-1R **LOCATION** Madison County, Illinois, **SEC.** 4, **TWP.** 3N, **RNG.** 8W
Lat 38.740693 **Long** -90.003037

COUNTY Madison **DRILLING METHOD** CME 550 w/HSA and Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. SN 060-0241
Station 14+18.67

BORING NO. B-4
Station 15+14
Offset 14 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 419.5 ft ▼
Upon Completion N/A ft
After N/A **Hrs.** N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown SILTY CLAY LOAM (A-6), moist, stiff *(continued)*				
w/ fine sand and clay deposits	-45	3 4 6	1.8 P	25
w/ fine sand deposit, no clay deposit	-50	4 3 4	1.5 P	27
Becomes gray	-55	2 4 5	0.9 S/15%	23
Gray CLAY (A-7), moist, stiff	381.0 -60	5 4 7	1.9 B/20%	23

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY (A-7), moist, stiff *(continued)*				
Gray SILTY CLAY LOAM (A-6), moist, stiff	376.0 -65	4 4 4	0.3 B/20%	23
	-70	2 4 5	1.3 B/20%	20
Becomes very stiff, w/ trace gravel	-75	5 12 16	1.0 S/10%	26
Gray CLAY (A-7), moist, stiff	361.0 -80	WOH 4 4	0.9 B/20%	24

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 03/03/22

ROUTE Route 157/162 **DESCRIPTION** PTB 195, Item 57 IL-162 over Judy's Branch **LOGGED BY** SCI

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Lat 38.740693 **Long** -90.003037

COUNTY Madison **DRILLING METHOD** CME 550 w/HSA and Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. SN 060-0241
Station 14+18.67

BORING NO. B-4
Station 15+14
Offset 14 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 419.5 ft ▼
Upon Completion N/A ft
After N/A **Hrs.** N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY (A-7), moist, stiff *(continued)*				
	-85	5 6 6	1.0 B/20%	22
	350.5			13
Gray CLAYEY SHALE, hard		35 50/3"		13
	349.0	50/1" 50/4"		
Sampler Refusal at 89 feet. Borehole grouted upon completion.	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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LOCHMUELLER GROUP
1928 Sth Bradley R. Smith Drive
Troy, IL 62294
PHONE: 618.667.3400

USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 060-0241
SHEET NO. 31 OF 31 SHEETS

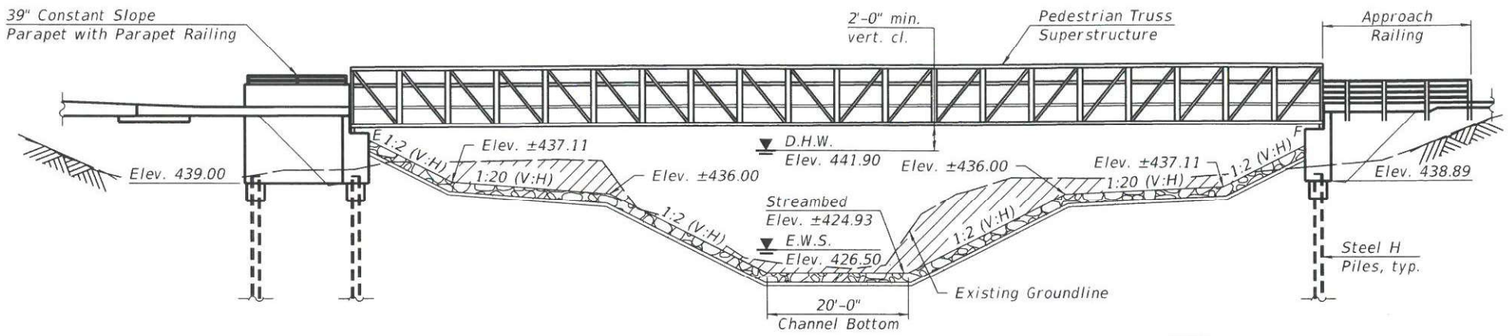
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	214
	SN 060-0241	CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

Benchmark: Cut "□", with +, on top of parapet wall at Northwest corner of IL-157 Bridge over Judys Branch (S.N. 060-0087). Elev. 449.226.

Existing Structure: None.

INDEX OF SHEETS

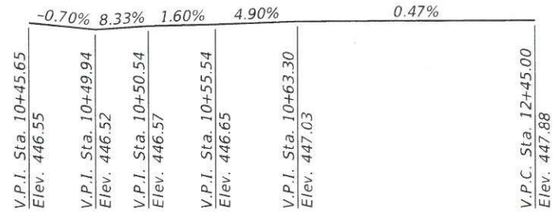
1. General Plan and Elevation
2. General Data and Details
3. Top of Slab Elevations
4. Top of South Bridge Approach Slab Elevations
5. Top of North Bridge Approach Slab Elevations
6-8. South Bridge Approach Slab Details
9. North Bridge Approach Slab Details
10. Parapet Railing Details
11. Approach Railing Details
12. Pedestrian Truss Details
13-14. South Abutment Details
15. North Abutment Details
16. Steel H-Pile Details
17-19. Boring Logs



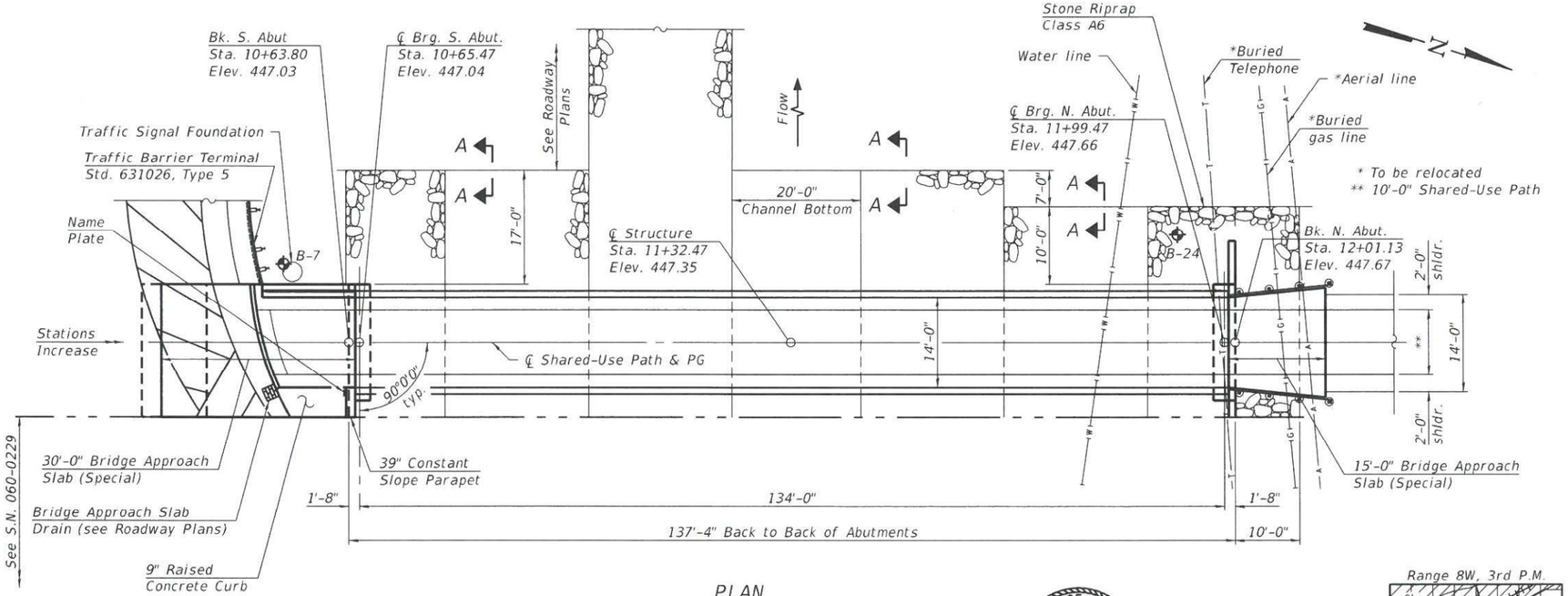
ELEVATION

KEY

Denotes Channel Excavation
(See Roadway Plans)



PROFILE GRADE
(Along ℄ Shared-Use Path)



PLAN

Note:
For Section A-A, see sheet 2 of 19.

LOADING H-10

Live Load = 90 psf uniform load

DESIGN SPECIFICATIONS

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

2009 AASHTO LRFD Guide Specifications For Design of Pedestrian Bridges

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

PRE-ENGINEERED BRIDGE UNITS

fy = 50,000 psi (M270 Grade50W)

SEISMIC DATA

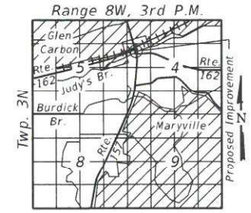
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.23g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.53g
Soil Site Class = D

GENERAL PLAN & ELEVATION
SHARED-USE PATH OVER JUDYS BRANCH
F.A.P. ROUTE 586
SECTION 51-1R
MADISON COUNTY
STATION 11+32.47
STRUCTURE NO. 060-7003

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

ERIC M. LAGEMANN
LICENSE NO. 081-006124
REGISTERED STRUCTURAL ENGINEER
STATE OF ILLINOIS

Eric Lagemann 4/17/24
License Expires 11/30/24 Date



LOCATION SKETCH

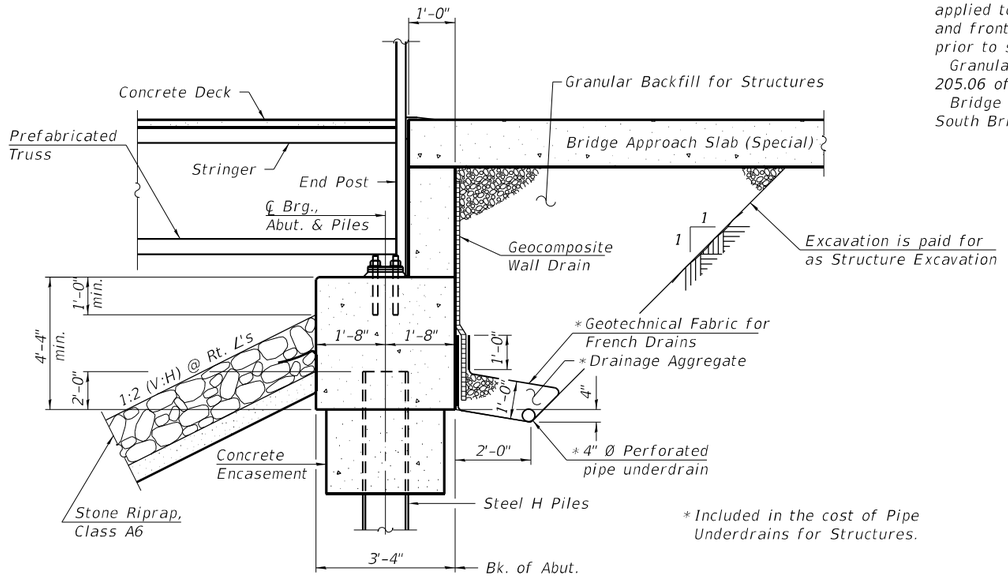
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4/17/2024 2:18:53 PM

FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - E.M. Lagemann	REVISED -	
	PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -	
	PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -	

SHEET 1 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	215
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592



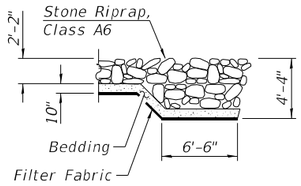
*Included in the cost of Pipe Underdrains for Structures.

SECTION THRU ABUTMENT

Notes:
Section Thru North Abutment shown, South Abutment similar.
All drainage system components shall extend 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).

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
A film forming Concrete Sealer shall be applied to the horizontal surfaces of the bridge seats of both Abutments. A penetrating Concrete Sealer shall be applied to the exposed vertical surfaces of both abutments, including the backwall and front face of abutments. Concrete Sealers at the abutments shall be applied prior to setting bearings and beams.
Granular Backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.
Bridge Deck Grooving shall be applied only to the roadway portion of the South Bridge Approach Slab.



SECTION A-A

Note:
For location of section A-A, see sheet 1 of 19.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A6	Sq. Yd.			532
Filter Fabric	Sq. Yd.			563
Structure Excavation	Cu. Yd.		42	42
Concrete Structures	Cu. Yd.		39.6	39.6
Concrete Superstructure	Cu. Yd.	43.4		43.4
Bridge Deck Grooving	Sq. Yd.	34		34
Concrete Encasement	Cu. Yd.		8.6	8.6
Protective Coat	Sq. Yd.	317		317
Concrete Superstructure (Approach Slab)	Cu. Yd.	35.0		35.0
Reinforcement Bars, Epoxy Coated	Pound	12,980	5,270	18,250
Parapet Railing	Foot	13.3		13.3
Furnishing Steel Piles HP14x117	Foot		935	935
Driving Piles	Foot		935	935
Name Plates	Each			1
Granular Backfill For Structures	Cu. Yd.		91	91
Concrete Sealer	Sq. Ft.		127.3	127.3
Geocomposite Wall Drain	Sq. Yd.		44	44
Pipe Underdrains For Structures 4"	Foot		95	95
Pedestrian Truss Superstructure	Sq. Ft.	1,920.7		1,920.7
Wood Rail	Foot	32.0		32.0

STA. 11+32.47
BUILT 202X BY
STATE OF ILLINOIS
F.A.P. Rt. 586 Sec. 51-1R
LOADING H-10
STR. NO. 060-7003

NAME PLATE

See Std. 515001

DESIGN SCOUR ELEVATION TABLE

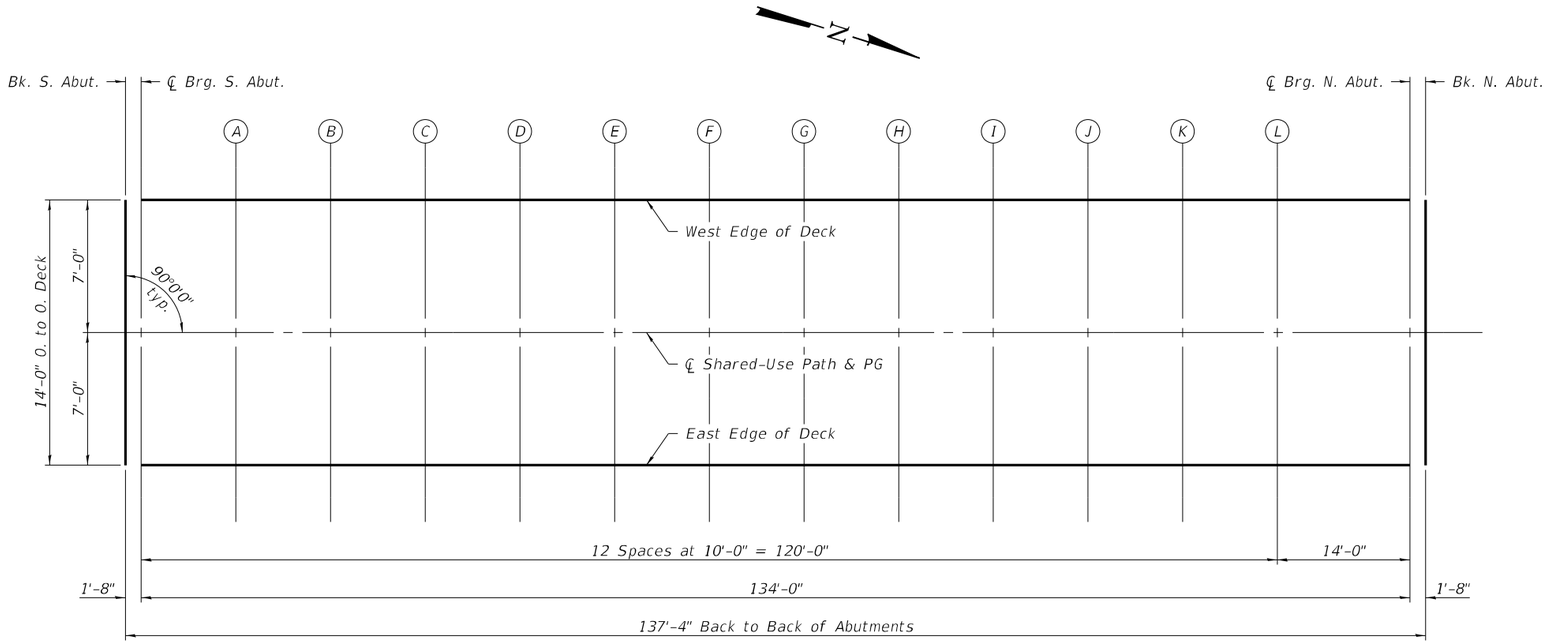
Event / Limit State	Design Scour Elevations (ft.) S. Abut.	N. Abut.	Item 113
Q100	439.00	438.92	8
Q200	439.00	438.92	
Design	439.00	438.92	
Check	439.00	438.92	

WATERWAY INFORMATION

Drainage Area = 8.6 sq. mi.
Existing Overtopping Elev. = 445.83 at Sta. 582+50.00
Proposed Overtopping Elev. = 446.42 at Sta. 581+42.36

Flood Event	Freq. Yr.	Discharge, Q C.F.S.	Waterway Opening - Ft² Existing	Proposed	Natural H.W.E. - Ft.	Head - Ft. Existing	Proposed	Headwater Elevation - Ft. Existing	Proposed
Design	50	5750	883	1146	441.9	0.5	0.3	442.4	442.2
Base	100	6590	941	1214	442.4	1.5	0.4	443.9	442.8
Scour Design Check	200	7600	987	1287	443.0	1.3	0.6	444.3	443.7
Overtop Existing	N/A	---	---	---	---	---	---	---	---
Overtop Proposed	N/A	---	---	---	---	---	---	---	---
Max. Calc.	500	8920	998	1367	443.7	1.3	1.6	445.0	445.3

10 Year Velocity Through Existing Bridge = N/A
10 Year Velocity Through Proposed Bridge = 4.46 ft/s



PLAN

Note:
Prefabricated pedestrian truss manufacturer shall determine Theoretical Deck Elevations Adjusted for Dead Load Deflection and take into account the concrete deck when determining bridge camber.

WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	10+63.80	-7.00	446.93
℄ Brg. S. Abut.	10+65.47	-7.00	446.94
A	10+75.47	-7.00	446.98
B	10+85.47	-7.00	447.03
C	10+95.47	-7.00	447.08
D	11+05.47	-7.00	447.12
E	11+15.47	-7.00	447.17
F	11+25.47	-7.00	447.22
G	11+35.47	-7.00	447.26
H	11+45.47	-7.00	447.31
I	11+55.47	-7.00	447.36
J	11+65.47	-7.00	447.40
K	11+75.47	-7.00	447.45
L	11+85.47	-7.00	447.50
℄ Brg. N. Abut.	11+99.47	-7.00	447.56
Bk. N. Abut.	12+01.13	-7.00	447.57

℄ SHARED-USE PATH & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	10+63.80	0.00	447.03
℄ Brg. S. Abut.	10+65.47	0.00	447.04
A	10+75.47	0.00	447.09
B	10+85.47	0.00	447.13
C	10+95.47	0.00	447.18
D	11+05.47	0.00	447.23
E	11+15.47	0.00	447.27
F	11+25.47	0.00	447.32
G	11+35.47	0.00	447.37
H	11+45.47	0.00	447.42
I	11+55.47	0.00	447.46
J	11+65.47	0.00	447.51
K	11+75.47	0.00	447.56
L	11+85.47	0.00	447.60
℄ Brg. N. Abut.	11+99.47	0.00	447.67
Bk. N. Abut.	12+01.13	0.00	447.68

EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	10+63.80	7.00	447.14
℄ Brg. S. Abut.	10+65.47	7.00	447.15
A	10+75.47	7.00	447.19
B	10+85.47	7.00	447.24
C	10+95.47	7.00	447.29
D	11+05.47	7.00	447.33
E	11+15.47	7.00	447.38
F	11+25.47	7.00	447.43
G	11+35.47	7.00	447.47
H	11+45.47	7.00	447.52
I	11+55.47	7.00	447.57
J	11+65.47	7.00	447.61
K	11+75.47	7.00	447.66
L	11+85.47	7.00	447.71
℄ Brg. N. Abut.	11+99.47	7.00	447.77
Bk. N. Abut.	12+01.13	7.00	447.78

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	CHECKED - T.S. Friederich	REVISED -	
PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -	
PLOT DATE =	CHECKED - T.S. Friederich	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-7003
SHEET 3 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	217
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

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*586/592

WEST EDGE OF APPROACH SLAB

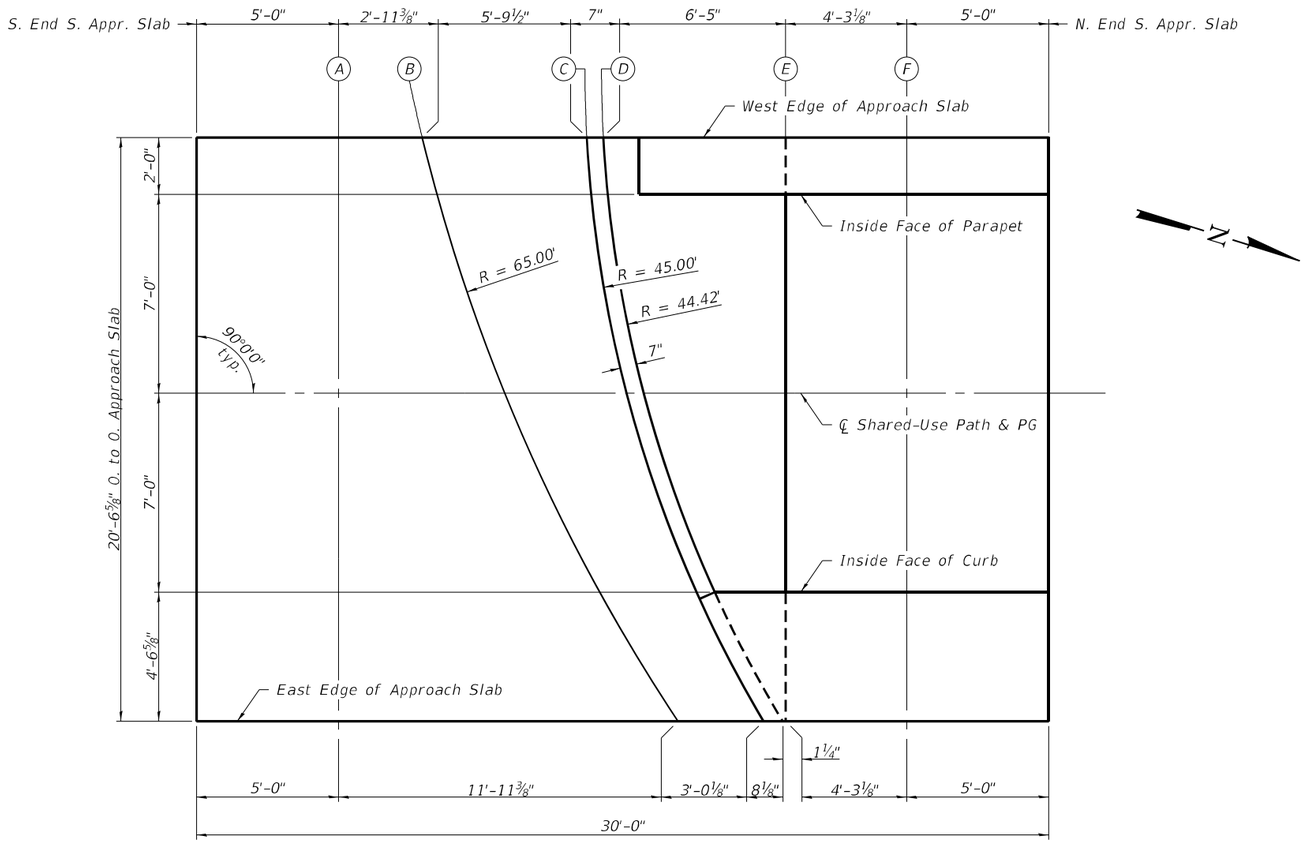
Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	10+34.80	-9.00	446.35
A	10+39.80	-9.00	446.38
B	10+42.75	-9.00	446.39
C	10+48.54	-9.00	446.42
D	10+49.12	-9.00	446.46
E	10+55.54	-9.00	446.52
F	10+59.80	-9.00	446.72
N. End S. Appr. Slab	10+64.80	-9.00	446.90

INSIDE FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	10+34.80	-7.00	446.39
A	10+39.80	-7.00	446.41
B	10+43.27	-7.00	446.43
C	10+48.69	-7.00	446.45
D	10+49.27	-7.00	446.49
E	10+55.54	-7.00	446.55
F	10+59.80	-7.00	446.75
N. End S. Appr. Slab	10+64.80	-7.00	446.93

℄ SHARED-USE PATH & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	10+34.80	0.00	446.47
A	10+39.80	0.00	446.51
B	10+45.65	0.00	446.55
C	10+49.94	0.00	446.52
D	10+50.54	0.00	446.57
E	10+55.54	0.00	446.65
F	10+59.80	0.00	446.86
N. End S. Appr. Slab	10+64.80	0.00	447.04



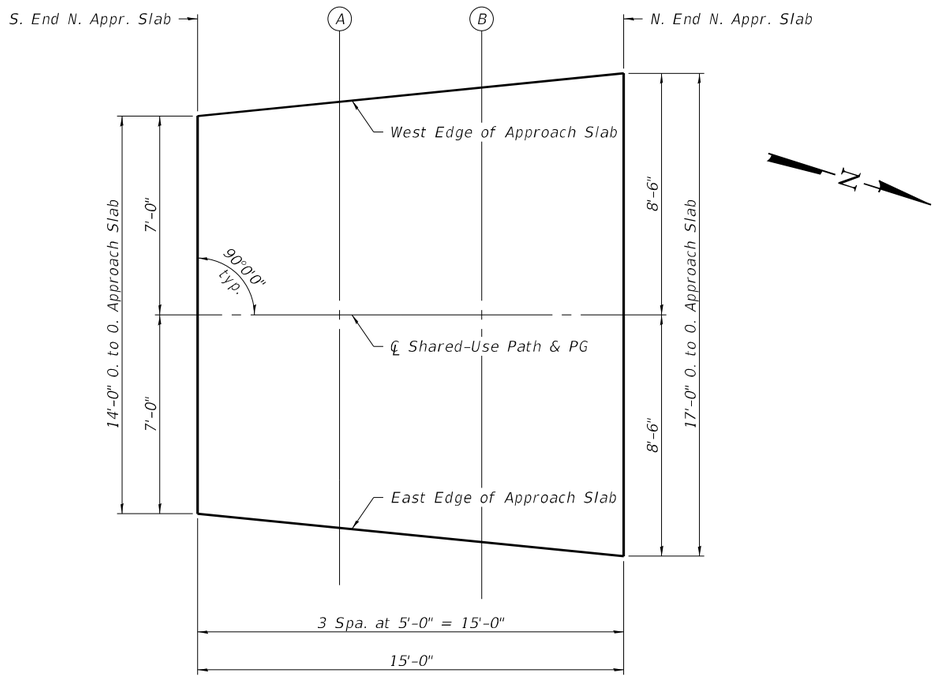
PLAN

INSIDE FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	10+34.80	7.00	446.51
A	10+39.80	7.00	446.53
B	10+48.99	7.00	446.58
C	10+52.40	7.00	446.54
D	10+53.04	7.00	446.58
E	10+55.54	7.00	446.76
F	10+59.80	7.00	446.96
N. End S. Appr. Slab	10+64.80	7.00	447.14

EAST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	10+34.80	11.55	446.53
A	10+39.80	11.55	446.55
B	10+51.75	11.55	446.59
C	10+54.76	11.55	446.55
D	10+55.44	11.55	446.59
E	10+55.54	11.55	446.76
F	10+59.80	11.55	446.96
N. End S. Appr. Slab	10+64.80	11.55	447.14



PLAN

WEST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	12+00.13	-7.00	447.57
A	12+05.13	-7.50	447.58
B	12+10.13	-8.00	447.60
N. End N. Appr. Slab	12+15.13	-8.50	447.62

℄ SHARED-USE PATH & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	12+00.13	0.00	447.67
A	12+05.13	0.00	447.70
B	12+10.13	0.00	447.72
N. End N. Appr. Slab	12+15.13	0.00	447.74

EAST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	12+00.13	7.00	447.78
A	12+05.13	7.50	447.81
B	12+10.13	8.00	447.84
N. End N. Appr. Slab	12+15.13	8.50	447.87

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	CHECKED - T.S. Friederich	REVISED -	
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PLOT DATE =	CHECKED - T.S. Friederich	REVISED -	

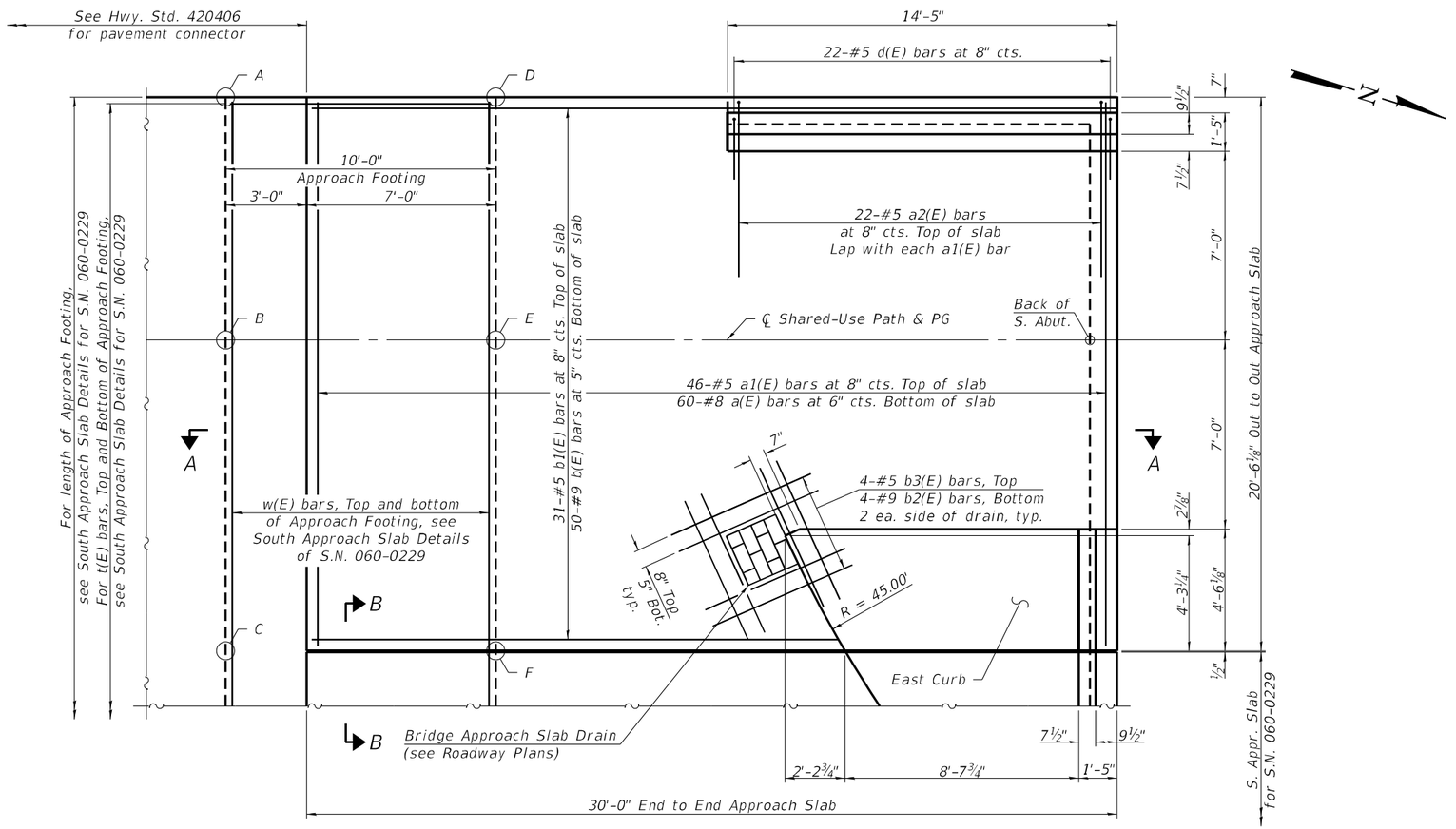
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH BRIDGE APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-7003
SHEET 5 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	219
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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*586/592



PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point/ Location	Station	Offset	Top	Bottom
A	10+31.80	-9.00 ft.	445.09	444.26
B	10+31.80	0.00 ft.	445.20	444.37
C	10+31.80	11.55 ft.	445.27	444.44
D	10+41.80	-9.00 ft.	445.14	444.31
E	10+41.80	0.00 ft.	445.27	444.44
F	10+41.80	11.55 ft.	445.30	444.47

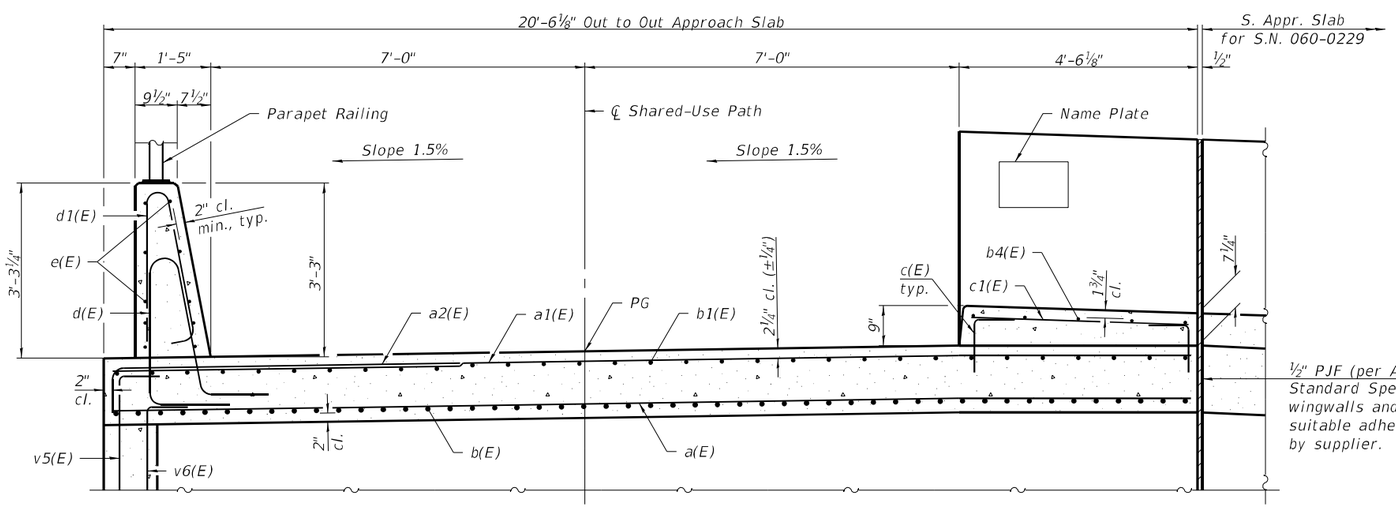
Notes:

Longitudinal and Transverse reinforcement shall be field cut around the Bridge Approach Slab Drain. A minimum clearance of 2" shall be provided.

The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-0229. See S.N. 060-0229 plans for reinforcement and concrete quantities, and Approach Footing dimensions.

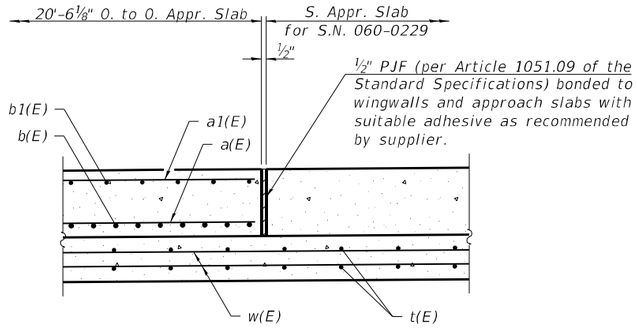
Reinforcement details for the East Curb and Parapet not shown for clarity. For Plan of East Curb, see sheet 7 of 19.

For Section A-A, see sheet 7 of 19.



CROSS SECTION - NEAR ABUTMENT

(Looking North)



SECTION B-B

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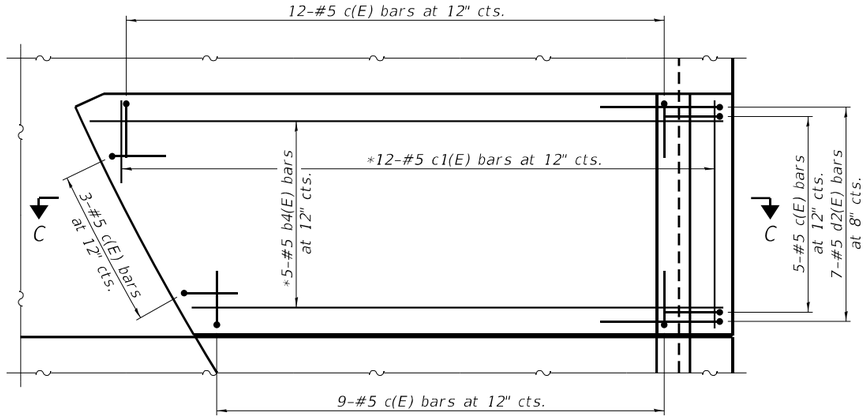
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		CHECKED - A.H. Morinaga Mansilla	REVISED -	
	PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -	
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SOUTH BRIDGE APPROACH SLAB DETAILS I
STRUCTURE NO. 060-7003

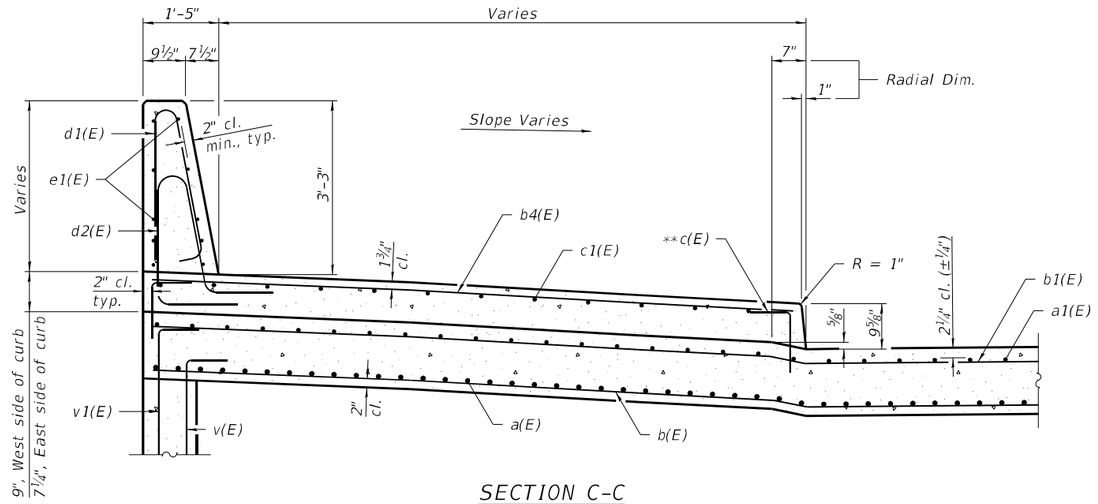
SHEET 6 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 76A46	
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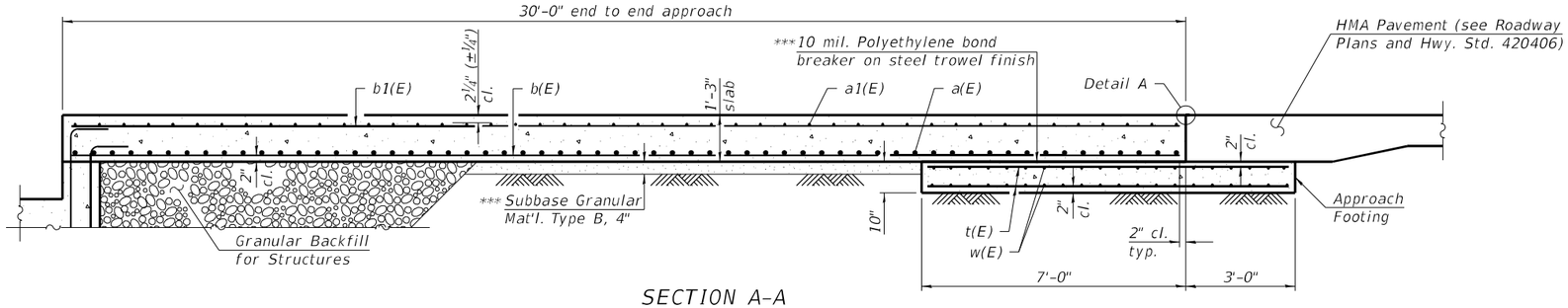
*586/592



PLAN OF EAST CURB

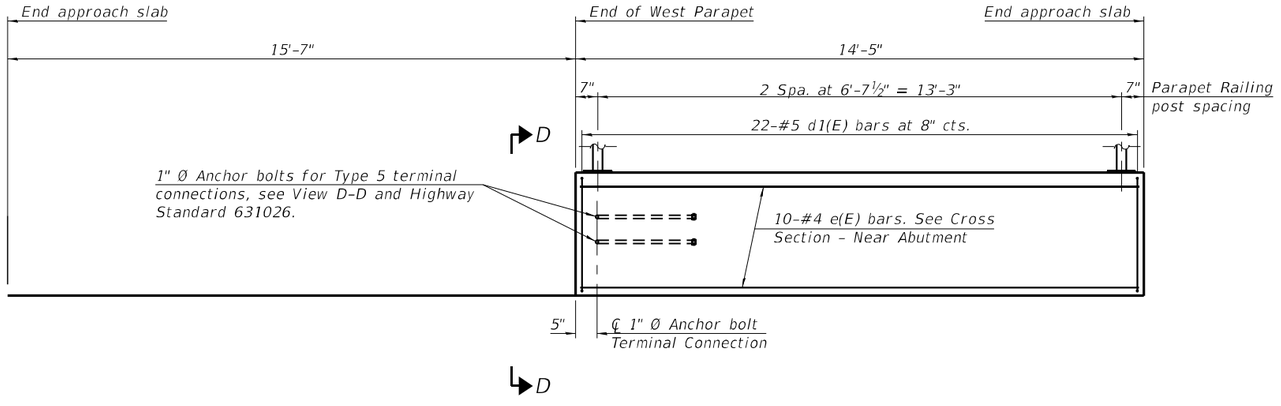


SECTION C-C

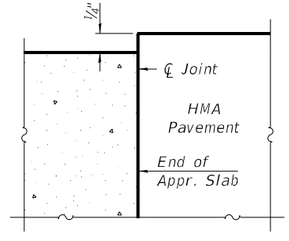


SECTION A-A

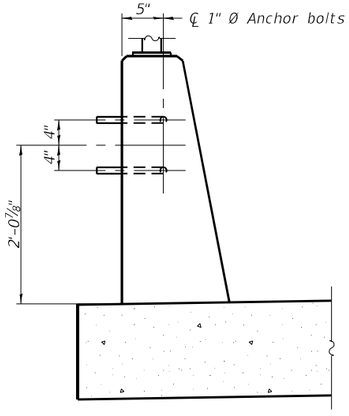
* Field cut b4(E) bars and c1(E) bars to fit curve of curb.
** Drill and set #5 c(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendation. Hole depth shall be deep enough to provide 1¾" clearance to top of c(E) bar and top of curb, with a minimum hole depth of 6". Locate Longitudinal bars to miss drilled holes. Locate drilled holes to miss Transverse bars in appr. slab.
*** Cost included with Concrete Superstructure (Approach Slab).



INSIDE ELEVATION OF WEST PARAPET



DETAIL A



VIEW D-D

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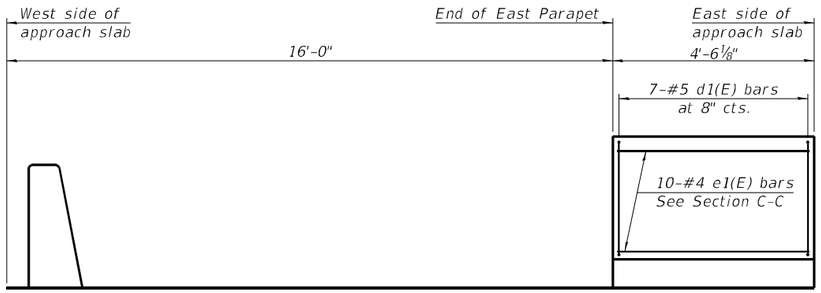
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	CHECKED - A.H. Morinaga Mansilla	REVISED -	
PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB DETAILS II
STRUCTURE NO. 060-7003
SHEET 7 OF 19 SHEETS

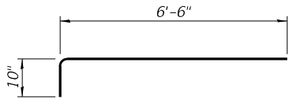
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		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592

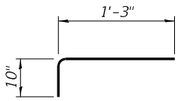


INSIDE ELEVATION OF EAST PARAPET

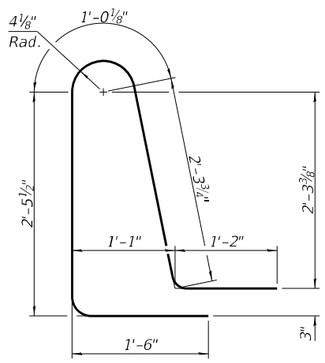
Notes:
Parapet and curb concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures. Quantity is included in S.N. 060-0229 plans.
Approach footing reinforcement quantity is included in S.N. 060-0229 plans.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures. Quantity is included in S.N. 060-0229 plans.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.



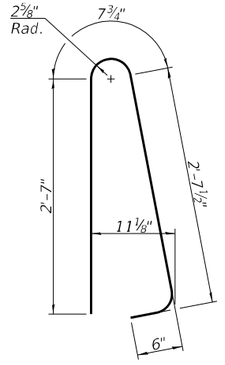
BAR a2(E)



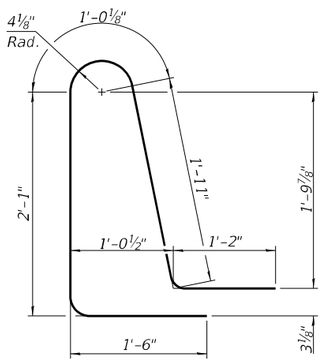
BAR c(E)



BAR d(E)

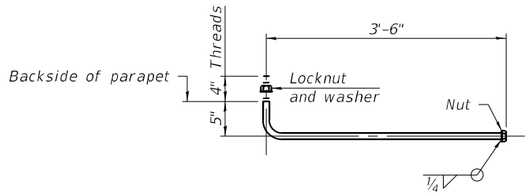


BAR d1(E)



BAR d2(E)

* Cost included with Concrete Superstructure (Approach Slab).



*1" Ø ANCHOR BOLT

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	60	#8	20'-2"	
a1(E)	46	#5	20'-2"	
a2(E)	22	#5	7'-4"	
b(E)	50	#9	29'-8"	
b1(E)	31	#5	29'-8"	
b2(E)	8	#9	5'-8"	
b3(E)	8	#5	5'-8"	
b4(E)	5	#5	12'-0"	
c(E)	29	#5	2'-1"	
c1(E)	12	#5	4'-2"	
d(E)	22	#5	8'-6"	
d1(E)	29	#5	6'-5"	
d2(E)	7	#5	7'-8"	
e(E)	10	#4	14'-1"	
e1(E)	10	#4	4'-2"	
Concrete Superstructure		Cu. Yd.	5.8	
Bridge Deck Grooving		Sq. Yd.	34	
Concrete Superstructure (Approach Slab)		Cu. Yd.	28.5	
Reinforcement Bars, Epoxy Coated		Pound	11,320	

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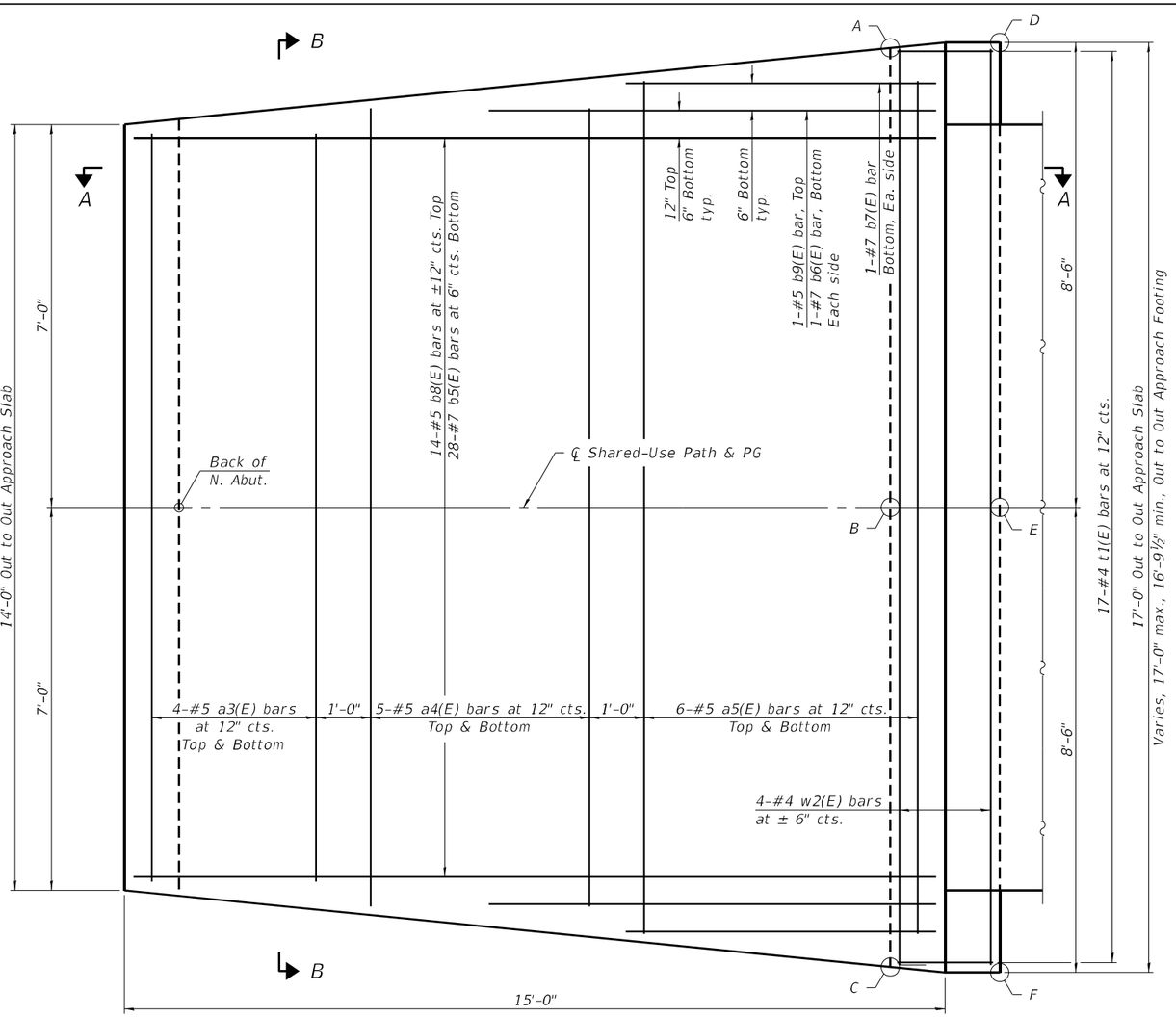
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PLOT DATE =	CHECKED - A.H. Morinaga Mansilla	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB DETAILS III
STRUCTURE NO. 060-7003
SHEET 8 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

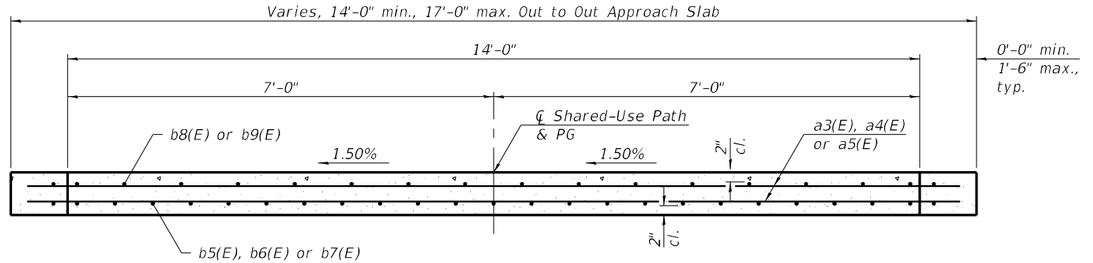
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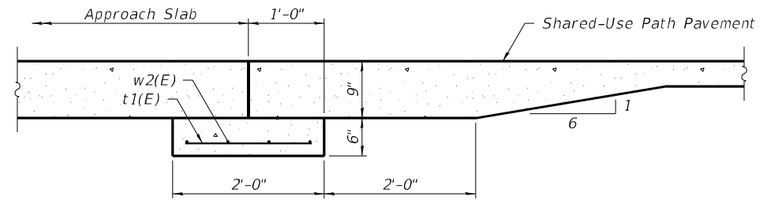
PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

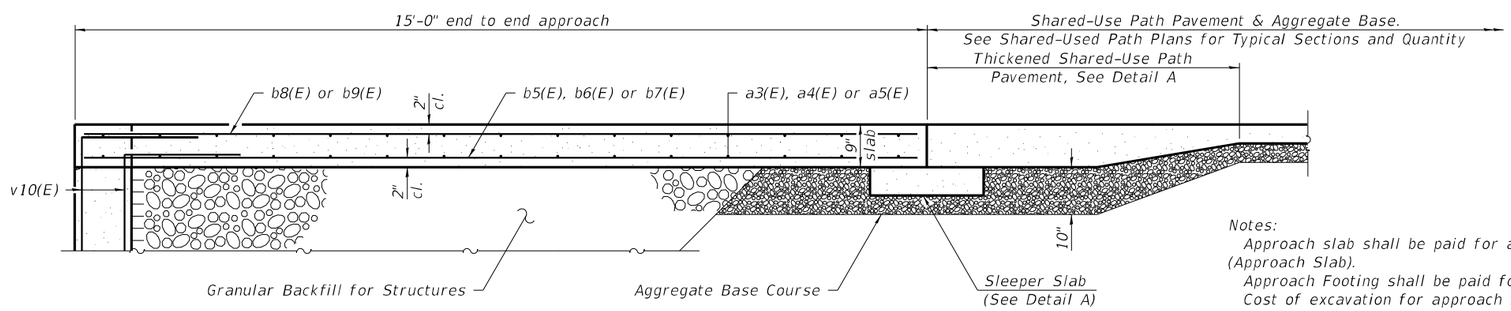
Point/ Location	Station	Offset	Top	Bottom
A	12+14.13	-8.40 ft.	446.86	446.36
B	12+14.13	0.00 ft.	446.99	446.49
C	12+14.13	8.40 ft.	447.11	446.61
D	12+16.13	-8.50 ft.	446.87	446.37
E	12+16.13	0.00 ft.	447.00	446.50
F	12+16.13	8.50 ft.	447.13	446.63



SECTION B-B



DETAIL A



SECTION A-A

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach Footing shall be paid for as Concrete Structures.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3(E)	8	#5	13'-8"	
a4(E)	10	#5	14'-7"	
a5(E)	12	#5	15'-7"	
b5(E)	28	#7	14'-8"	
b6(E)	2	#7	10'-8"	
b7(E)	2	#7	5'-8"	
b8(E)	14	#5	14'-8"	
b9(E)	2	#5	8'-2"	
t1(E)	17	#4	1'-8"	
w2(E)	4	#4	16'-6"	
Concrete Structures			Cu. Yd.	0.6
Concrete Superstructure (Approach Slab)			Cu. Yd.	6.5
Reinforcement Bars, Epoxy Coated			Pound	1,660

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PLOT DATE =		CHECKED -	E.M. Lagemann	REVISED -

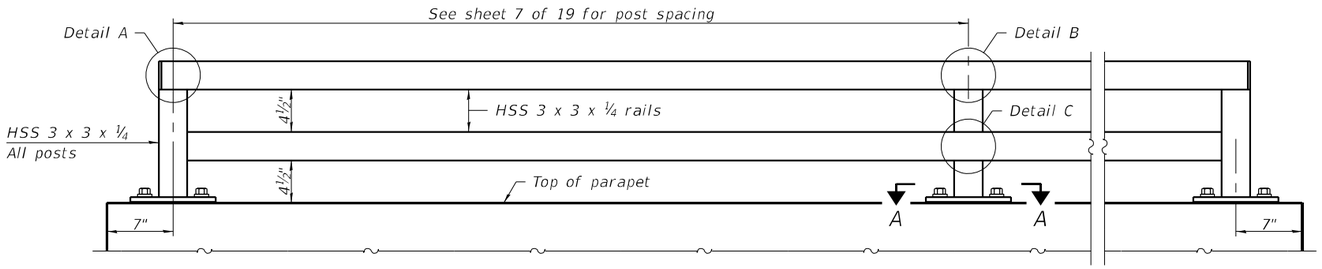
STATE OF ILLINOIS
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NORTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-7003

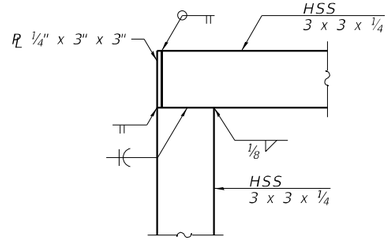
SHEET 9 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

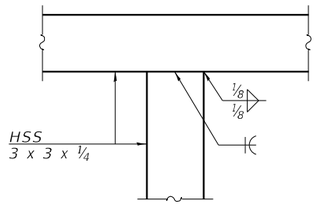
*586/592



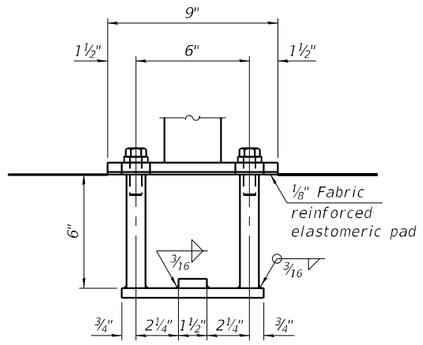
ELEVATION PARAPET RAILING
(Inside face)

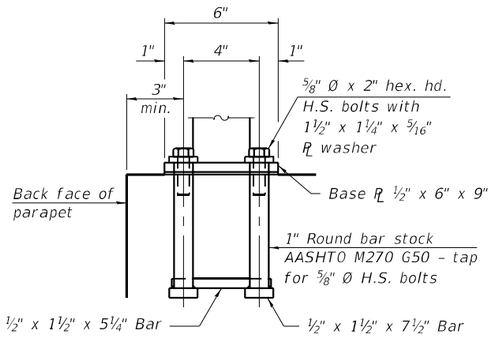


DETAIL A



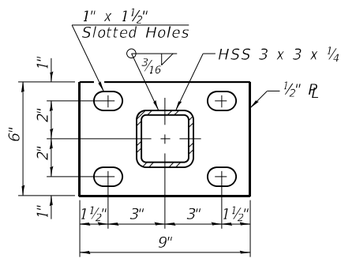
DETAIL B



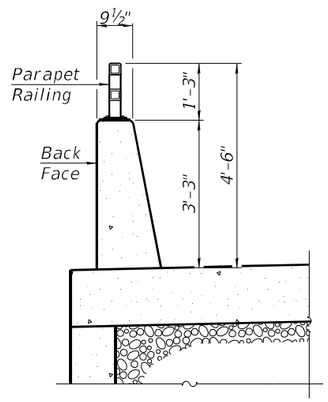


ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION A-A



SECTION THRU APPROACH SLAB

Notes:

Place reinforcement bars to miss anchor rod locations.

All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.

All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.

All heavy hex nuts shall be according to ASTM A 563 grade DH.

All fully threaded anchor rods shall be ASTM F1554 grade 105.

The post base plate shall be fastened to the parapet snug tight and given an additional ⅛" turn.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Max Post Spacing	10'-0"

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	13.3

MODEL: Default
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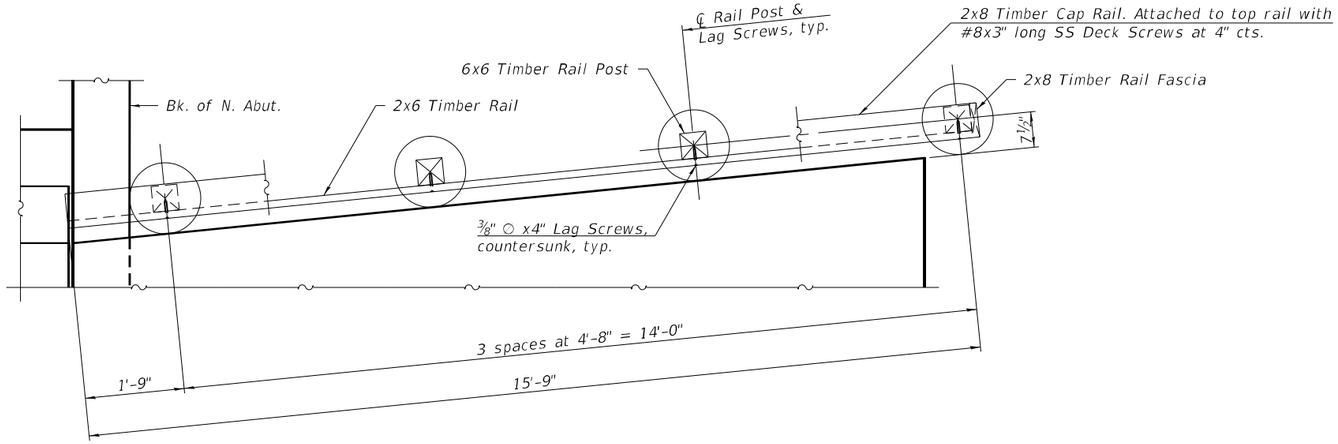
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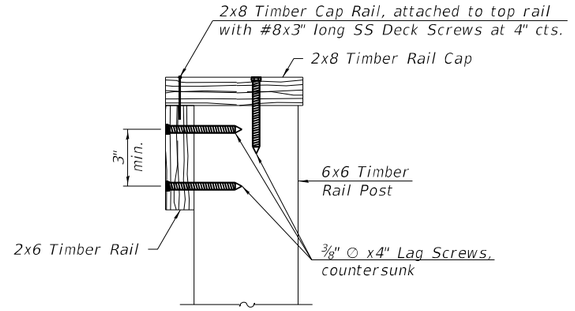
PARAPET RAILING DETAILS
STRUCTURE NO. 060-7003
SHEET 10 OF 19 SHEETS

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		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

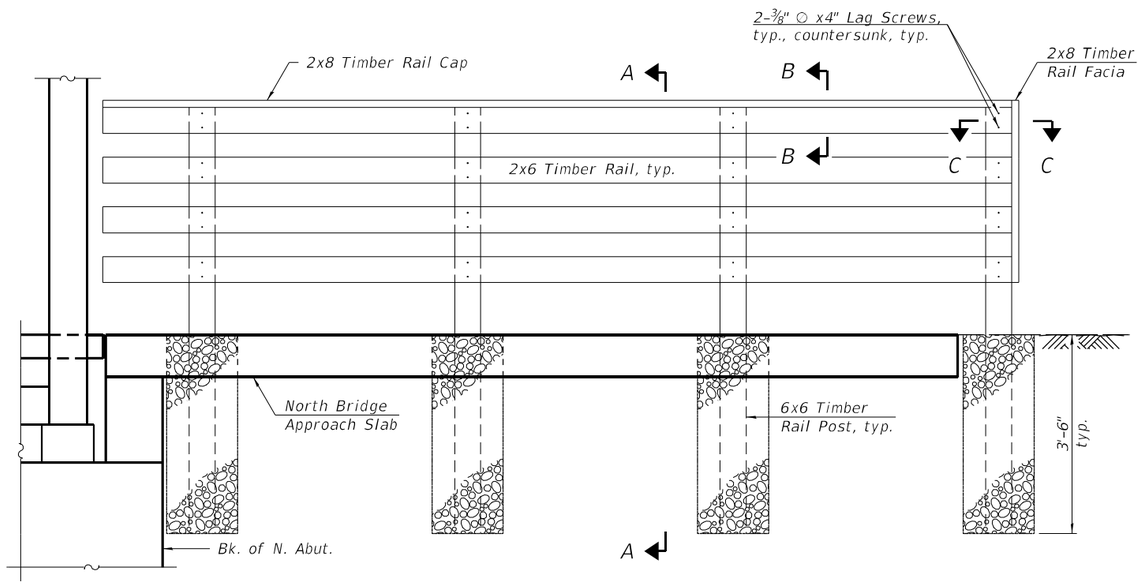
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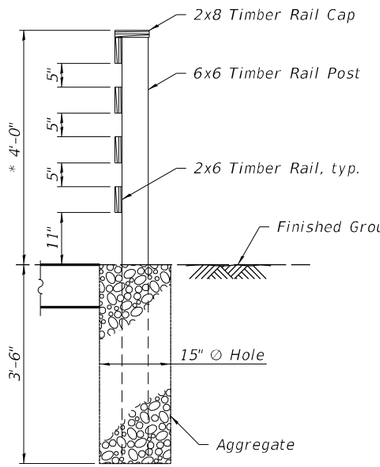
PART PLAN



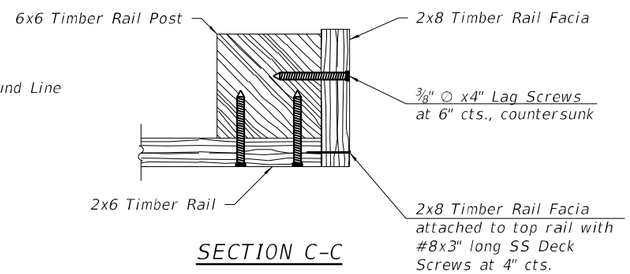
SECTION B-B



ELEVATION



SECTION A-A



SECTION C-C

* Top of top timber rail shall be installed a minimum 4'-0" above the finished ground line. Adjust post length accordingly in field.

TIMBER FENCE RAIL DETAIL

Note:
No splices allowed on end railing.

BILL OF MATERIAL

Item	Unit	Quantity
Wood Rail	Foot	32.0

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APPROACH RAILING DETAILS
STRUCTURE NO. 060-7003
SHEET 11 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	225
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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PEDESTRIAN TRUSS GENERAL NOTES

The substructure is designed per AASHTO LRFD, and based on the assumed truss loads (including deck) as shown on this sheet.

Truss Manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.

Bridge bearing seat elevations are subject to revision based on the approved pedestrian truss superstructure shop drawings.

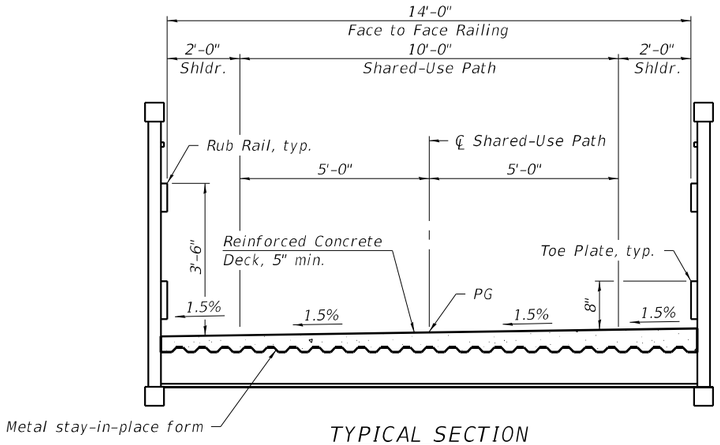
Design of pedestrian bridge shall accommodate anticipated dead and live load deflections so that no sag occurs within the bridge span. Pedestrian bridge profile must be either flat (when fully loaded), or have a slight upward camber.

Truss Manufacturer shall provide the reinforced concrete deck design. Concrete deck to utilize galvanized stay-in-place forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after truss is set. Cost included with Pedestrian Truss Superstructure.

Truss Manufacturer shall provide ADA compliant joint covers for joints between abutment backwall and steel truss.

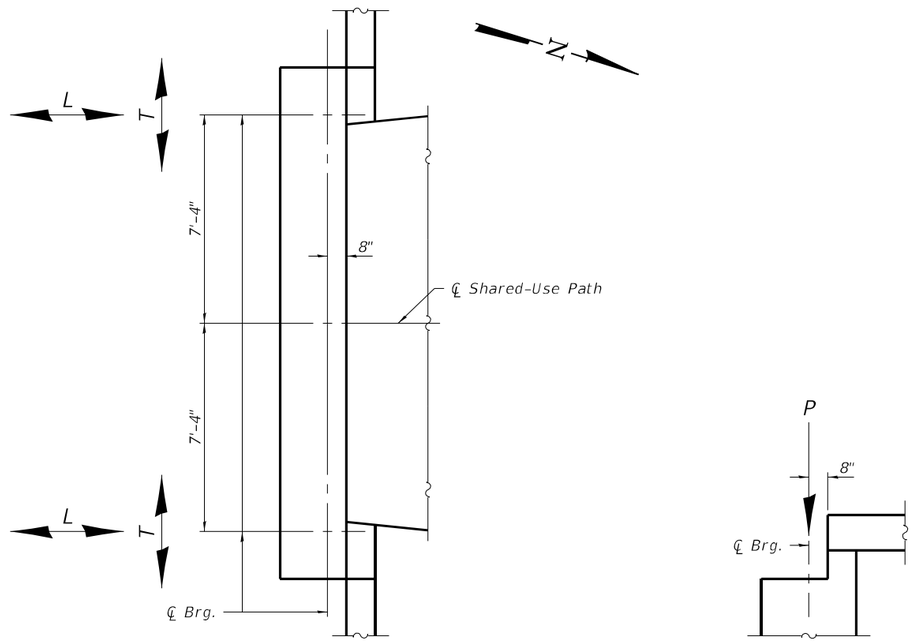
Depth of pedestrian bridge from top of deck to bottom of bottom chord shall provide a minimum of 2'-0" vertical clearance above "Design Highwater Elevation".

Quantity of Concrete Superstructure is estimated for the aid of bidding. Actual quantity to be determined by Contractor based off of design provided by Truss Manufacturer.



TYPICAL SECTION

(Looking North)



PLAN

SECTION

UNFACTORED TRUSS REACTIONS

LOAD TYPE		P (kips)	T (kips)	L (kips)
Dead Load, DC		78.42		
Vehicular Live Load, LL		9.79		
Pedestrian Live Load, PL		42.71		
Uniform Temperature, TU				7.75
Wind Load, WS	Windward	-15.66	24.18	0.80
	Leeward	5.22		
Seismic, EQ			15.68	

"P" = Vertical load, each bearing
"T" = Transverse load, each bearing
"L" = Longitudinal load, each bearing

Notes:
Dead load reaction includes estimated weight of truss and concrete deck. Truss Manufacturer to verify reactions.
"+" values indicate downward load.
"-" values indicate upward load.

TRUSS LOAD LOCATIONS

Notes:
Details provided to indicate to Truss Manufacturer where loads are applied for abutment design. Truss Manufacturer and Contractor shall coordinate with Engineer if approved truss design differs from what is shown.
North Abutment shown, South Abutment similar.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Superstructure	Cu. Yd.	37.6
Pedestrian Truss Superstructure	Sq. Ft.	1,920.7

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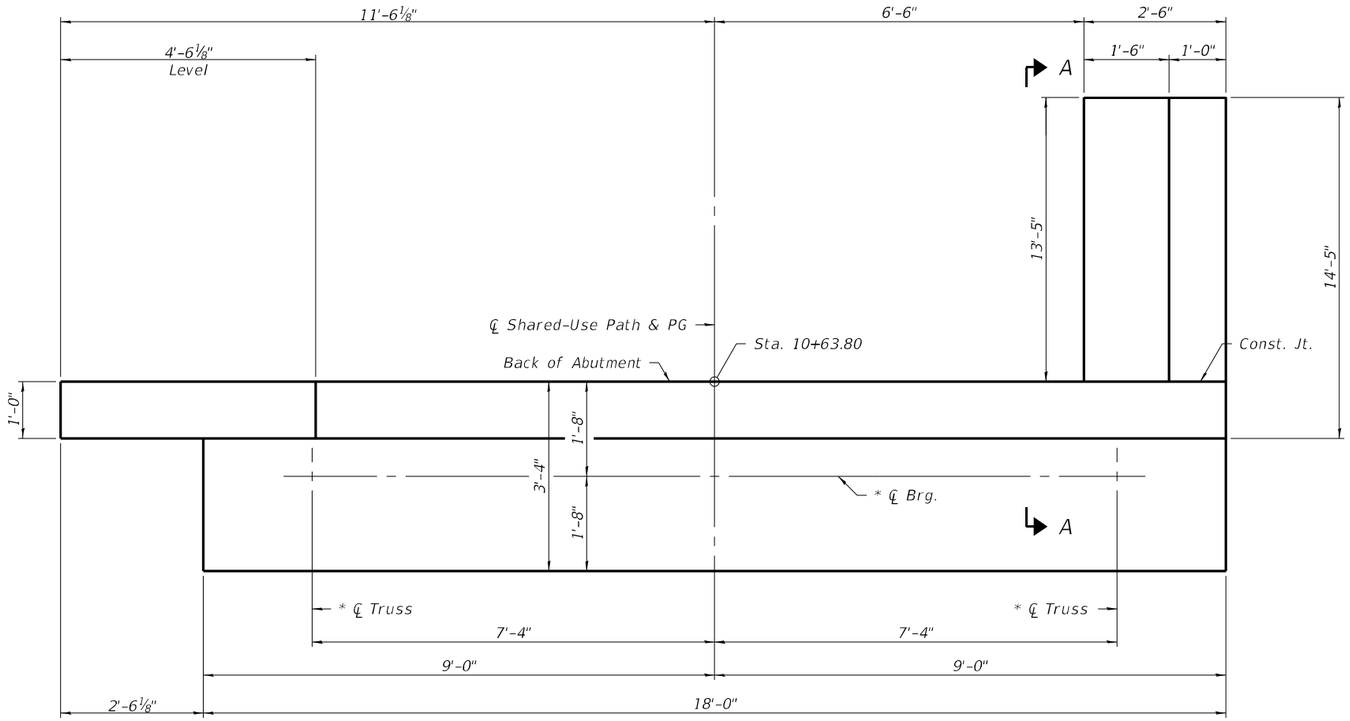
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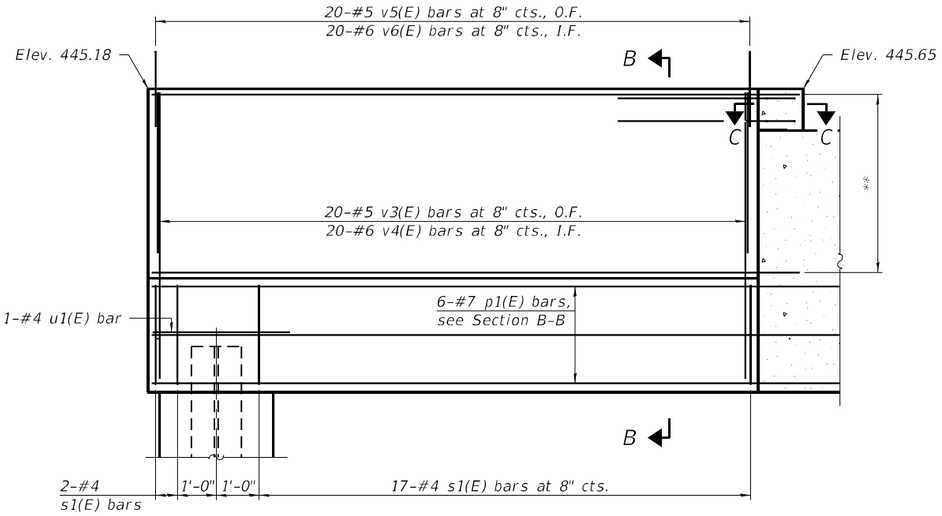
PEDESTRIAN TRUSS DETAILS
STRUCTURE NO. 060-7003
SHEET 12 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

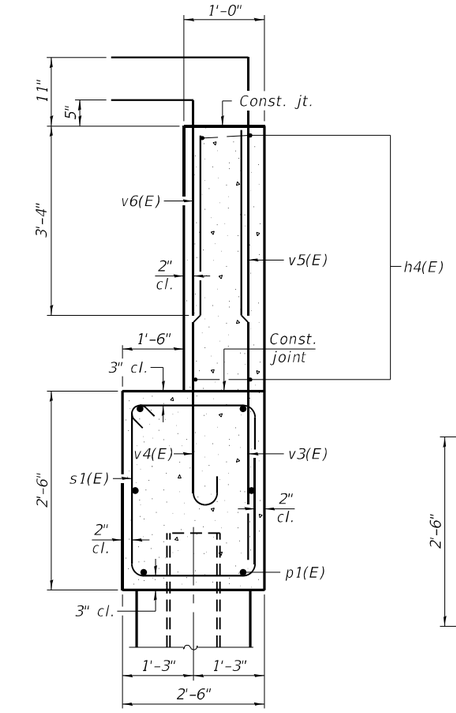
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PLAN



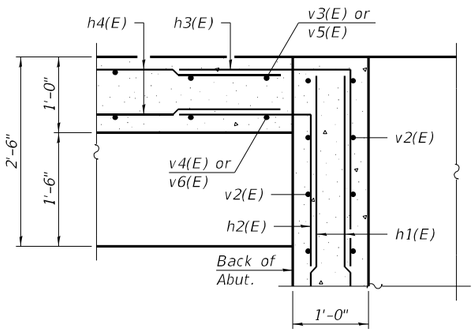
SECTION A-A



SECTION B-B

* Dimensions used in design of abutment. Truss Manufacturer and Conctractor shall coordinate with Engineer if approved truss design differs from what is shown.

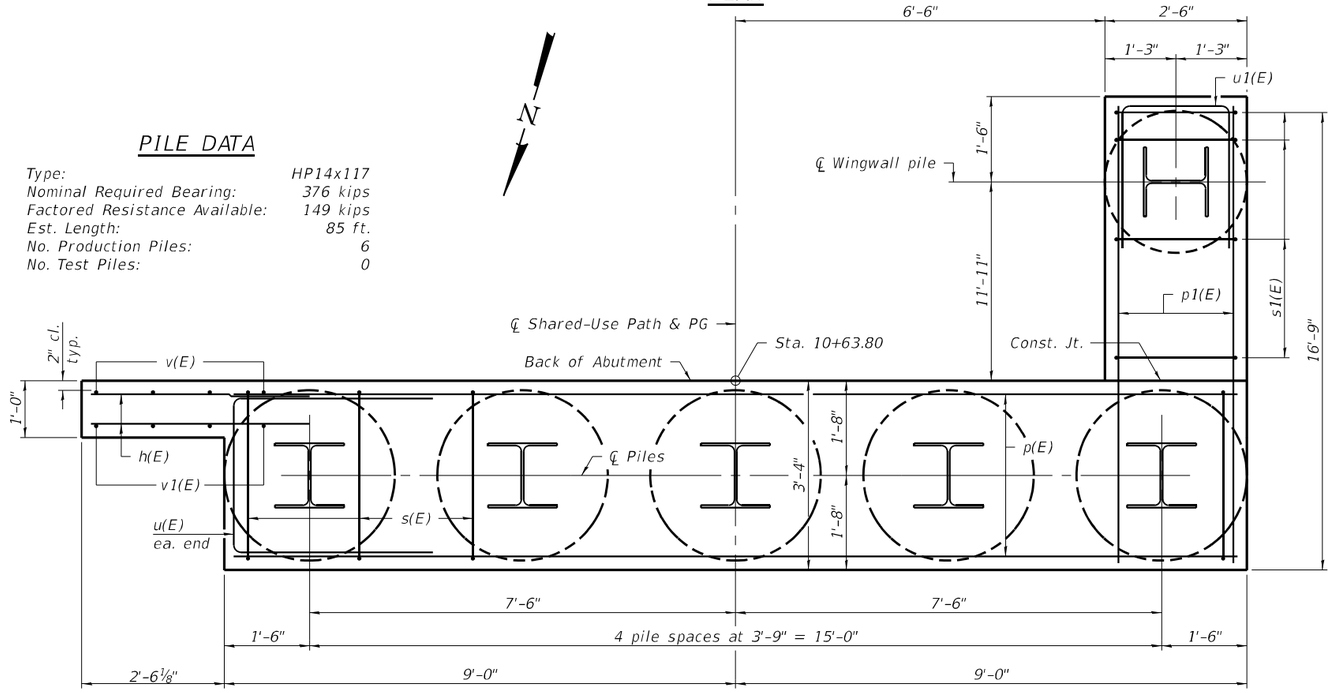
** 4-#4 h2(E) bars at ±12" cts.
4-#4 h3(E) bars at ±12" cts.
4-#4 h4(E) bars at ±12" cts., E.F.



SECTION C-C

PILE DATA

Type:	HP14x117
Nominal Required Bearing:	376 kips
Factored Resistance Available:	149 kips
Est. Length:	85 ft.
No. Production Piles:	6
No. Test Piles:	0



PILE CAP PLAN

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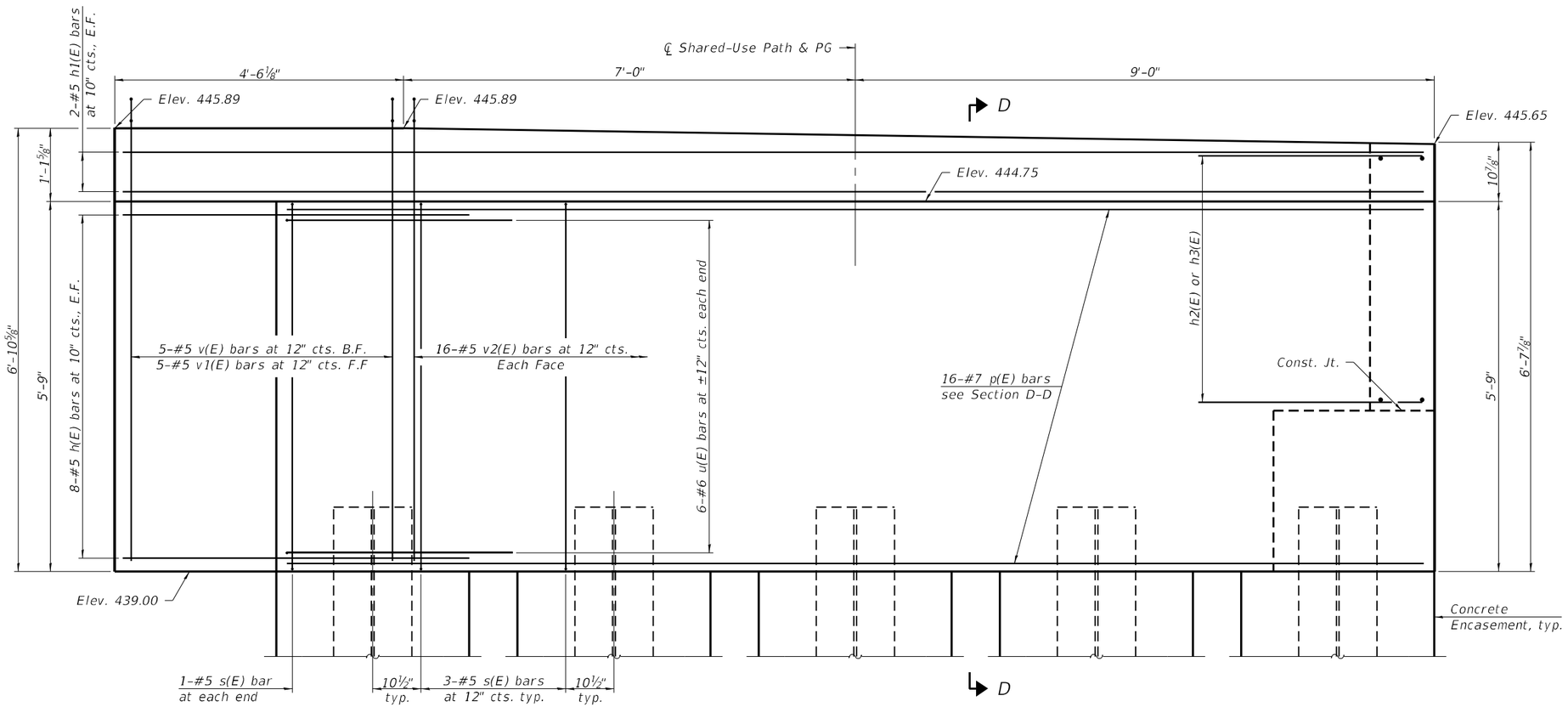
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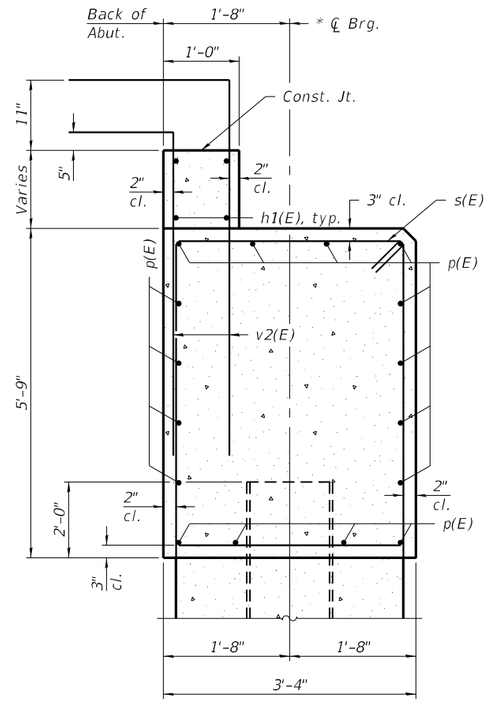
SOUTH ABUTMENT DETAILS I
STRUCTURE NO. 060-7003
SHEET 13 OF 19 SHEETS

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	ILLINOIS	FED. AID PROJECT		

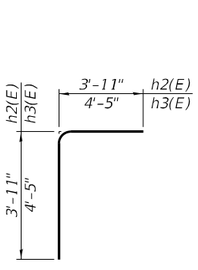
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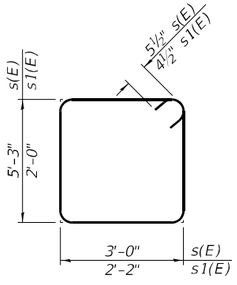
ELEVATION
(Looking South)



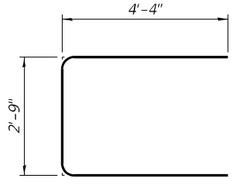
SECTION D-D



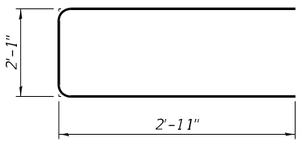
BARS h2(E) & h3(E)



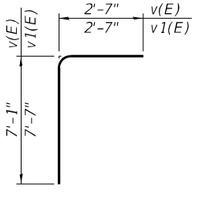
BARS s(E) & s1(E)



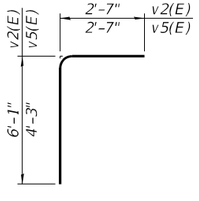
BAR u(E)



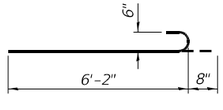
BAR u1(E)



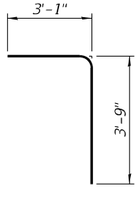
BARS v(E) & v1(E)



BARS v2(E) & v5(E)



BAR v4(E)



BAR v6(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#5	7'-4"	
h1(E)	4	#5	20'-2"	
h2(E)	4	#4	7'-10"	
h3(E)	4	#4	8'-10"	
h4(E)	8	#4	13'-1"	
p(E)	16	#7	17'-8"	
p1(E)	6	#7	13'-1"	
s(E)	14	#5	17'-5"	
s1(E)	19	#4	9'-1"	
u(E)	12	#6	11'-5"	
u1(E)	1	#4	7'-11"	
v(E)	5	#5	9'-8"	
v1(E)	5	#5	10'-2"	
v2(E)	32	#5	8'-8"	
v3(E)	20	#5	5'-10"	
v4(E)	20	#6	6'-10"	
v5(E)	20	#5	6'-10"	
v6(E)	20	#6	6'-10"	
Structure Excavation		Cu. Yd.	20	
Concrete Structures		Cu. Yd.	19.3	
Concrete Encasement		Cu. Yd.	4.7	
Reinforcement Bars, Epoxy Coated		Pound	2,710	
Furnishing Steel Piles HP14x117		Foot	510	
Driving Piles		Foot	510	
Concrete Sealer		Sq. Ft.	63.5	

* Dimensions used in design of abutment. Truss Manufacturer and Conctractor shall coordinate with Engineer if approved truss design differs from what is shown.

Notes:
Space reinforcement in cap to miss anchor bolts.
For details of piles and Concrete Encasement, see sheet 16 of 19.

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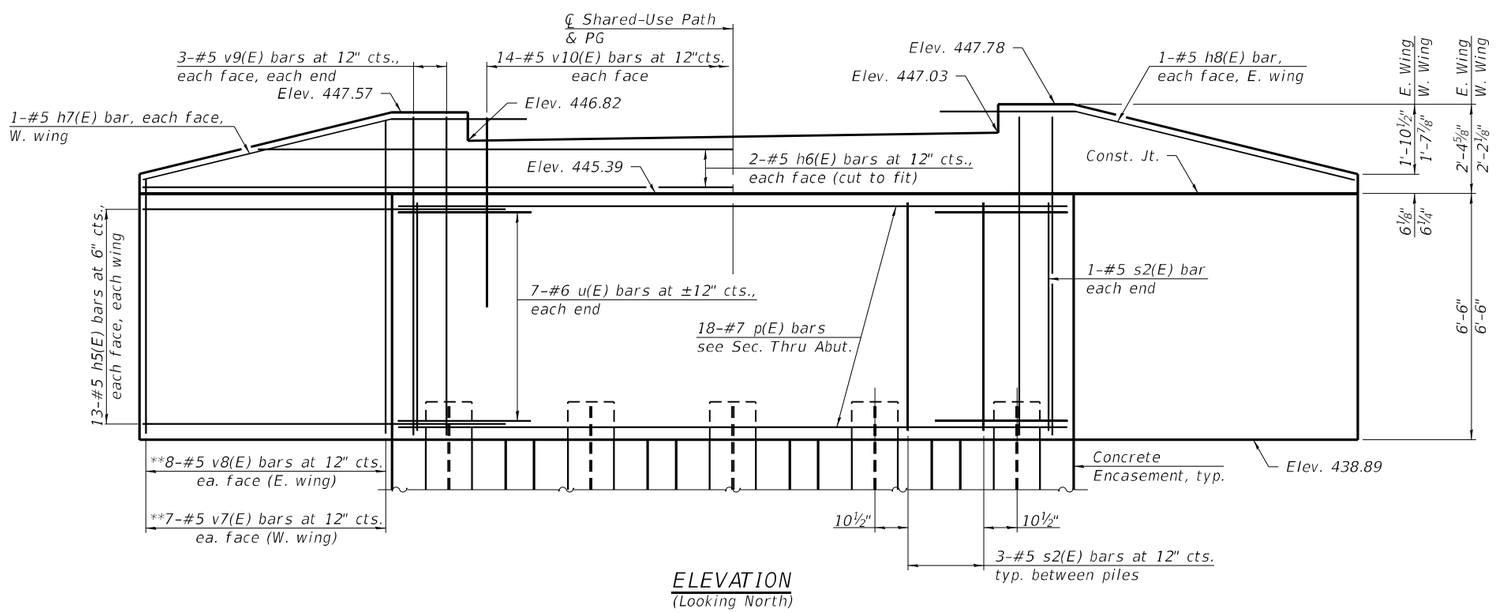
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	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -	
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

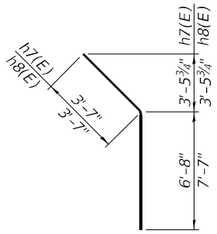
SOUTH ABUTMENT DETAILS II
STRUCTURE NO. 060-7003
SHEET 14 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	228
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

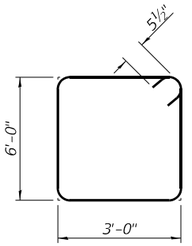
*586/592



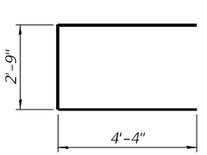
ELEVATION
(Looking North)



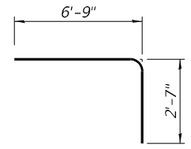
BARS h7(E) & h8(E)



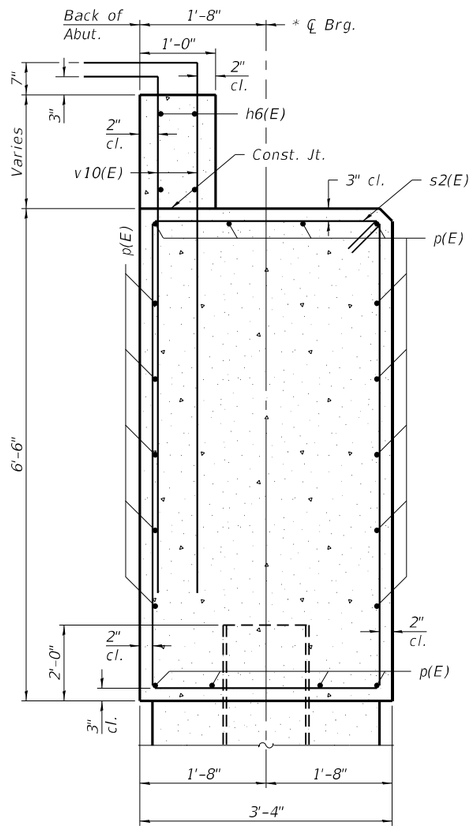
BAR s2(E)



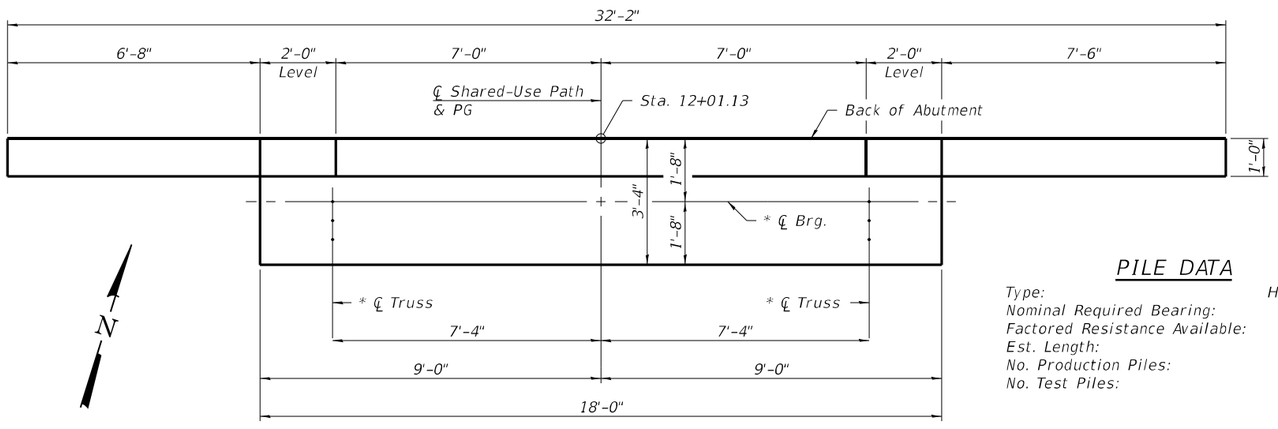
BAR u(E)



BAR v10(E)



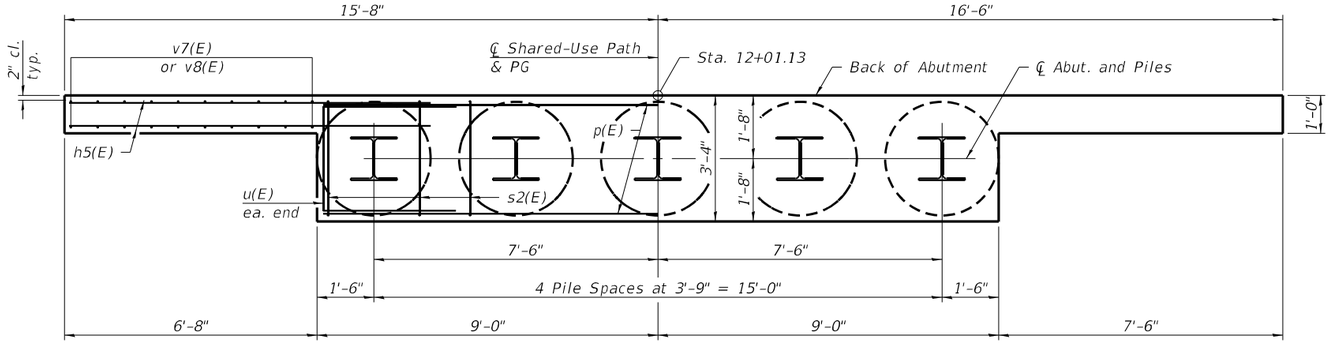
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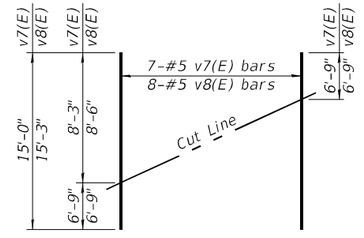
PLAN

PILE DATA

Type:	HP14x117
Nominal Required Bearing:	346 kips
Factored Resistance Available:	155 kips
Est. Length:	85 ft.
No. Production Piles:	5
No. Test Piles:	0



PILE CAP PLAN



FIELD CUTTING DIAGRAM

Order v7(E) and v8(E) full length. Cut as shown and use remainder of bars in opposite face.

*Dimensions used in design of abutment. Truss Manufacturer and Contractor shall coordinate with Engineer if approved truss design differs from what is shown.

**See field cutting diagram.

Notes:
Space reinforcement in cap to miss anchors bolts.
For details of piles and Concrete Encasement, see sheet 16 of 19.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	52	#5	11'-1"	
h6(E)	4	#5	31'-10"	
h7(E)	2	#5	10'-3"	
h8(E)	2	#5	11'-2"	
p(E)	18	#7	17'-8"	
s2(E)	14	#5	18'-11"	
u(E)	14	#6	11'-5"	
v7(E)	7	#5	15'-0"	
v8(E)	8	#5	15'-3"	
v9(E)	12	#5	8'-4"	
v10(E)	28	#5	9'-4"	
Structure Excavation		Cu. Yd.	22	
Concrete Structures		Cu. Yd.	19.7	
Concrete Encasement		Cu. Yd.	3.9	
Reinforcement Bars, Epoxy Bars		Pound	2,560	
Furnishing Steel Piles HP14x117		Foot	425	
Driving Piles		Foot	425	
Concrete Sealer		Sq. Ft.	63.8	

MODEL: Default
FILE NAME: G:\FE\[plots]_20202026-1581 PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\CADD\CADD Sheets\0607003-76A46-0115-NAbut.dgn

3/8/2024 11:25:56 AM

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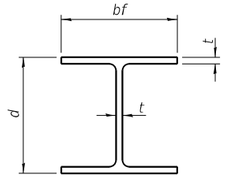
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	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -	
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 060-7003
SHEET 15 OF 19 SHEETS

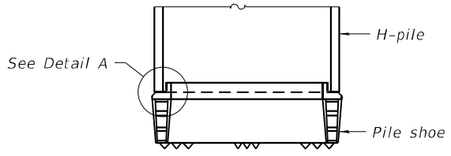
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	229
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

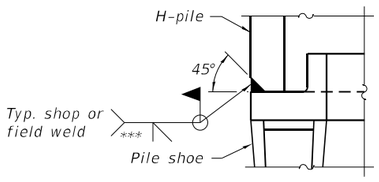


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



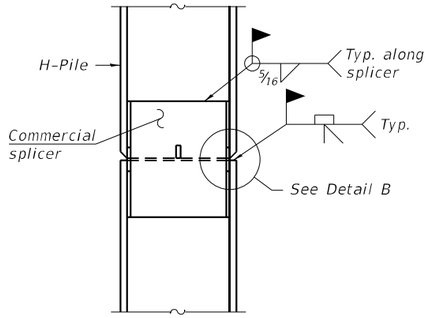
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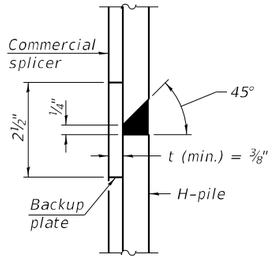
DETAIL A

SHOE ATTACHMENT

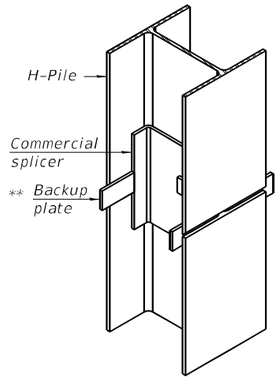
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

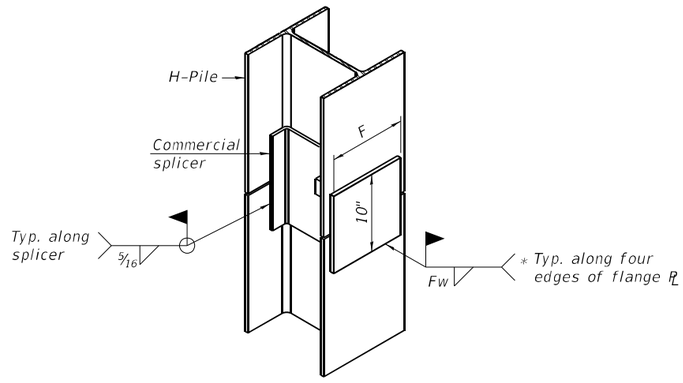


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



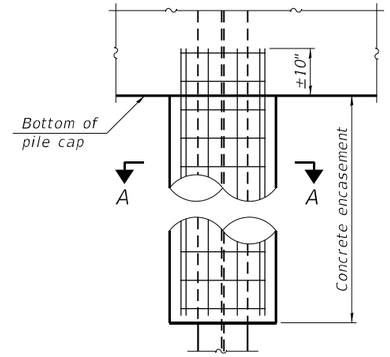
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

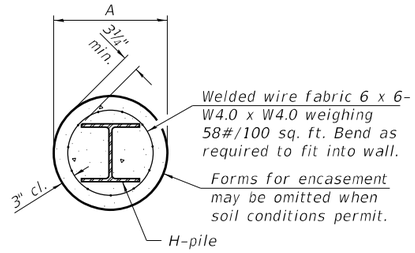
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



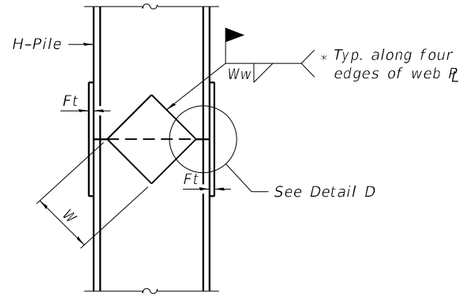
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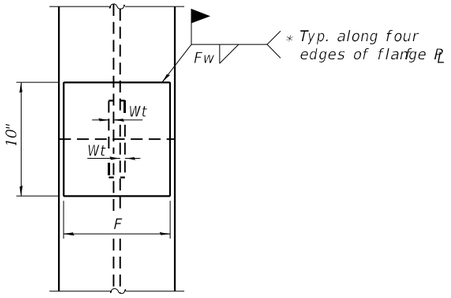
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

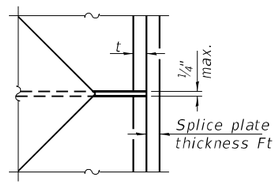
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 2-1-2023

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USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -	
	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - E.M. Lagemann	REVISED -	
PLOT DATE =	CHECKED - A.H. Morinaga Mansilla	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 060-7003
SHEET 16 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	230
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

*586/592

MODEL: Default
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3/5/2024 8:13:02 AM

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION Shared Use Path over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: CINDERS (A-1)			
436.5			
FILL: Dark brown to brown SILTY LOAM (A-4), stiff	5 6 9	3.0 P	16
	4 6 7	0.9 S/10%	18
-5			
432.5			
Brown SILTY LOAM (A-4), very moist, very soft *Percentage finer than #200 test performed (21.6% passing)*	WOH WOH WOH	<0.25 P	29
Percentage finer than #200 test performed (19.9% passing)	WOH WOH	NC	26
429.0			
Brown to reddish brown SANDY LOAM (A-3) w/ silt, very moist, very loose	1		
-10			
Percentage finer than #200 test performed (19.2% passing)	WOH WOH 1	NC	23
▼			
Percentage finer than #200 test performed (20.3% passing)	1 1 1	<0.25 P	31
423.0 -15			
Gray and Brown SILTY CLAY (A-6), moist, very soft	WOH 1 2	0.5 S/15%	30
420.0			
Gray CLAY (A-7), moist, soft *Atterberg Limits test performed (LL=34, PI=18)*	1 1 2	0.6 B/20%	23
418.0 -20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray fine SAND (A-3), wet, medium dense	4 7 9	NC	23
414.0			
Gray SILTY LOAM (A-4), moist, stiff	5 5 5	1.5 P	21
-25			
412.5			
Gray fine SAND (A-3), wet, medium dense	8 12 13	NC	NC
-30	6 6 7	NC	24
406.0			
Gray CLAY (A-7), moist, stiff			
-35	5 4 6	2.0 B/20%	23
-40	4 4 7	2.5 B/20%	21

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION Shared Use Path over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY (A-7), moist, stiff *(continued)*			
396.0			
Gray SANDY CLAY LOAM (A-6), moist, stiff (fill)	3 4 7	2.0 B/20%	18
-45			
	3 4 6	1.6 B/20%	17
-50			
384.5			
Gray CLAY LOAM (A-7), moist, stiff	5 6 8	2.8 B/20%	22
-55			
	3 4 4	1.4 B/20%	28
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY LOAM (A-7), moist, stiff *(continued)*			
376.0			
Gray CLAY (A-7), moist, very stiff	6 6 9	3.0 B/20%	22
-65			
Becomes brown and stiff	6 4 5	2.7 B/20%	32
-70			
Becomes very stiff	4 7 9	2.1 B/20%	28
-75			
Becomes gray	4 5 7	1.4 B/20%	28
358.5 -80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION Shared Use Path over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

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

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray weathered CLAYEY SHALE, hard *(continued)*				
	-85	6 11 20	1.7 S/10%	21
		50/5.5"		11
		50/2"		
	350.5	50/5"		11
Sampler Refusal at 87.5 feet. Borehole grouted upon completion.		50/1"		
	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 2/22,23/2022

ROUTE Route 157/162 DESCRIPTION Shared Use Path Over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.741190 Long -90.002303

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-7003
Station 11+32.26

BORING NO. B-24
Station 585+27
Offset 95 ft LT
Ground Surface Elev. 437.0 ft

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

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After 24 Hrs. 427.6 ft ▽

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Gray CLAY (A-7), moist, medium stiff		4 3 4	0.4 S/10%	28
	434.0			
Gray SILTY CLAY (A-6), moist, soft		2 2 2	0.2 S/15%	18
	-5			
		1 2 1	0.2 S/15%	21
	429.0			
Gray SILTY CLAY (A-7), trace brown, moist, soft	▽ -10	1 1 1	0.1 S/20%	20
Becomes gray and brown		WOH WOH 2	NC	25
	424.0			
Brown SANDY CLAY (A-6), wet, soft, sand is fine *Atterberg Limits Test Performed (LL=32, PI=10)*		WOH 2 2	NC	28 30
	422.0 -15			
Brown and gray SILTY CLAY (A-6), soft, moist		1 1 3	2.3 P	24 48
	419.0			
Gray SILTY CLAY LOAM (A-6) w/ clay deposits, moist, medium stiff		3 2 3	0.5 B/20%	28
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	416.5			
Gray CLAY (A-7) w/ sand deposits, moist, medium stiff		WOH 2 6	0.5 P	26
	415.0			
Gray fine SAND (A-3), moist, loose				
Becomes medium dense		8 9 10	NC	
	-25			
w/ sandy loam deposits		7 6 11	NC	20
No loam, trace coal fragments		5 6 13	NC	32
	-30			
	403.0	8 5 6	1.6 B/20%	32
Brown CLAY (A-7), moist, stiff	-35			
Becomes medium stiff, w/ silty loam deposits		3 2 5	1.0 B/20%	26
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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3/5/2024 8:14:45 AM

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USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -	
	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -	
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 060-7003
SHEET 18 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	232
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

*586/592

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 2/22,23/2022

ROUTE Route 157/162 DESCRIPTION Shared Use Path over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W
Lat 38.741190 Long -90.002303

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-7003
Station 11+32.26

BORING NO. B-24
Station 585+27
Offset 95 ft LT
Ground Surface Elev. 437.0 ft

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

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After 24 Hrs. 427.6 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Brown CLAY (A-7), moist, stiff *(continued)*
-45	4 5 7	3.7 B/20%	20	Becomes gray and stiff
390.0				Gray SILTY CLAY LOAM (A-6), moist, stiff
-50	5 6 7	1.7 B/20%	24	
385.0				Gray and brown SANDY CLAY LOAM (A-6), trace gravel, moist, very stiff (glacial till)
-55	7 7 11	2.7 B/20%	15	
380.0				Brown and gray CLAY LOAM (A-7), moist, stiff (till)
-60	6 5 7	3.3 B/20%	33	
375.0				Brown and gray CLAY LOAM (A-7), moist, stiff (till) *(continued)*
-65	5 8 13	3.1 B/20%	20	Brown CLAY (A-7), moist, very stiff
368.0				Grayish brown SILTY CLAY (A-6), trace organics, moist, medium stiff
-70	3 3 4	0.7 B/20%	37	
365.0				Grayish brown CLAY (A-7), trace organics, moist, medium stiff
-75	3 3 4	1.4 B/20%	29	
358.0				Grayish brown CLAY LOAM (A-7), trace gravel, moist, very stiff
-80	4 5 13	1.6 B/20%	22	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 2/22,23/2022

ROUTE Route 157/162 DESCRIPTION Shared Use Path over Judy's Branch LOGGED BY SCI

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COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-7003
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Offset 95 ft LT
Ground Surface Elev. 437.0 ft

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

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After 24 Hrs. 427.6 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Grayish brown CLAY LOAM (A-7), trace gravel, moist, very stiff *(continued)*
354.5				Brown CLAY (A-7), moist, very stiff
352.5	20 12 11	5.0 S/20%	26 26	Grayish brown SANDY CLAY LOAM (A-6), trace gravel, moist, very stiff
-85				
348.5				Gray CLAYEY SHALE, hard
-90	50/2" 50/1"			
348.8				Sampler Refusal at 90.25 feet. Borehole grouted upon completion.
-95	50/2" 50/1"			
-100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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3/5/2024 8:15:20 AM

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USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -	
	CHECKED - E.M. Lagemann	REVISED -	
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -	
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 060-7003
SHEET 19 OF 19 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	233
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

*586/592

PROPOSED IL ROUTE 157
CURVES C50 AND C51

STATION	LEFT EDGE	SLOPE %	CENTERLINE	SLOPE %	RIGHT EDGE
572+24.35	452.13	-1.33	452.29	-0.92	452.18
572+50.00	452.26	-0.23	452.29	-1.15	452.15
572+75.00	452.39	0.84	452.29	-1.36	452.13
572+90.35	452.47	1.50	452.29	-1.50	452.11
573+00.00	452.53	1.94	452.30	-1.94	452.06
573+01.35	452.54	2.00	452.30	-2.00	452.06
573+50.00	452.51	2.00	452.27	-2.00	452.03
574+00.00	452.32	2.00	452.08	-2.00	451.84
574+50.00	451.96	2.00	451.71	-2.00	451.46
FULL SUPERELEVATION					
576+50.00	450.05	2.00	449.72	-2.00	449.39
577+00.00	449.57	2.00	449.22	-2.00	448.87
577+50.00	449.09	2.00	448.72	-2.00	448.35
577+75.11	448.85	2.00	448.47	-2.00	448.09
577+93.11	448.59	1.50	448.30	-1.50	447.99
578+00.00	448.48	1.32	448.23	-1.50	447.91
578+25.00	448.11	0.65	447.98	-1.50	447.65
578+50.00	447.74	-0.02	447.75	-1.50	447.39
578+75.00	447.40	-0.69	447.53	-1.50	447.16
579+00.00	447.07	-1.36	447.34	-1.50	446.94
579+05.11	447.00	-1.50	447.30	-1.50	446.90
579+50.00	446.71	-1.50	447.01	-1.50	446.57
580+00.00	446.45	-1.50	446.75	-1.50	446.28
580+50.00	446.27	-1.50	446.57	-1.50	446.09
NORMAL CROWN					
591+50.00	450.51	-1.50	450.78	-1.50	450.33
592+00.00	451.03	-1.50	451.30	-1.50	450.85
592+50.00	451.50	-1.64	451.79	-1.04	451.41
592+80.47	451.70	-1.72	452.01	-0.76	451.86

PROPOSED IL ROUTE 162
CURVES J12 AND J2

STATION	LEFT EDGE	SLOPE %	CENTERLINE	SLOPE %	RIGHT EDGE
6+91.56	438.26	-1.66	438.46	-1.25	438.31
7+00.00	438.27	-1.63	438.47	-1.29	438.31
7+42.06	438.34	-1.50	438.52	-1.50	438.34
7+50.00	438.39	-1.19	438.54	-1.50	438.36
7+75.00	438.60	-0.22	438.62	-1.50	438.44
8+00.00	438.84	0.76	438.75	-1.50	438.57
8+19.06	439.06	1.50	438.88	-1.50	438.70
8+25.00	439.13	1.73	438.92	-1.73	438.71
8+50.00	439.45	2.71	439.13	-2.71	438.80
8+75.00	439.82	3.68	439.38	-3.68	438.93
9+00.00	440.22	4.65	439.66	-4.65	439.11
9+25.00	440.67	5.63	439.99	-5.63	439.32
9+34.56	440.85	6.00	440.13	-6.00	439.41
9+50.00	441.08	6.00	440.36	-6.00	439.64
10+00.00	441.96	6.00	441.21	-6.00	440.47
10+50.00	443.03	6.00	442.23	-6.00	441.42
10+56.48	443.18	6.00	442.37	-6.00	441.56
10+75.00	443.54	5.44	442.79	-5.44	442.03
11+00.00	444.03	4.68	443.35	-4.68	442.68
11+25.00	444.47	3.92	443.89	-3.92	443.30
11+50.00	444.86	3.17	444.38	-3.17	443.89
11+75.00	445.20	2.41	444.82	-2.41	444.44
12+00.00	445.49	1.65	445.22	-1.65	444.95
12+04.98	445.54	1.50	445.29	-1.50	445.05
12+25.00	445.72	0.89	445.57	-1.50	445.32
12+50.00	445.90	0.14	445.88	-1.50	445.62
12+75.00	446.03	-0.62	446.14	-1.50	445.87
13+00.00	446.10	-1.38	446.35	-1.50	446.08
13+03.98	446.11	-1.50	446.38	-1.50	446.11
13+50.00	446.35	-1.50	446.64	-1.50	446.35
14+00.00	446.45	-1.50	446.75	-1.50	446.42
14+50.00	446.38	-1.50	446.68	-1.50	446.31
NORMAL CROWN					
20+50.00	445.95	-1.50	446.43	-1.50	446.09
21+00.00	446.20	-1.50	446.68	-1.50	446.38
21+50.00	446.50	-1.50	446.98	-1.50	446.68
21+95.74	446.75	-1.50	447.23	-1.50	446.93
22+00.00	446.81	-1.39	447.25	-1.50	446.95
22+50.00	447.45	-0.08	447.47	-1.50	447.18
23+00.00	447.97	1.22	447.65	-1.50	447.37
23+10.74	448.06	1.50	447.69	-1.50	447.41
23+50.00	448.36	2.47	447.81	-2.47	447.36
24+00.00	448.67	3.71	447.96	-3.71	447.31
24+50.00	448.95	4.95	448.13	-4.95	447.32
24+68.24	449.10	5.40	448.23	-5.40	447.36
25+00.00	449.29	5.40	448.45	-5.40	447.61
25+50.00	449.71	5.40	448.93	-5.40	448.14
26+00.00	450.29	5.40	449.56	-5.40	448.83
26+49.12	451.01	5.40	450.33	-5.40	449.66
26+50.00	451.02	5.37	450.35	-5.42	449.67
26+74.52	451.34	4.56	450.79	-6.08	450.06

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LOCHMUELLER GROUP
1928 S-A Bradley Pl. Smith Drive
Troy, IL 62294
PHONE: 618.667.1400

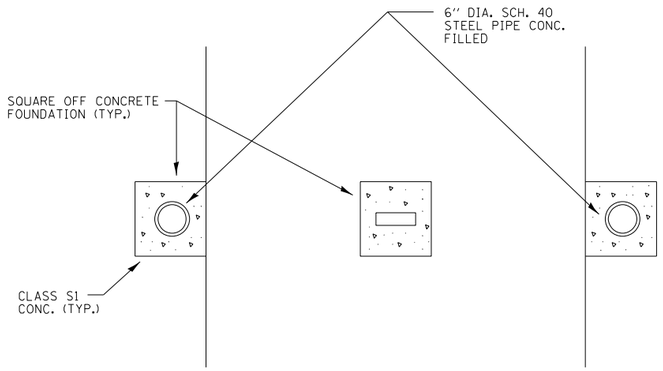
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

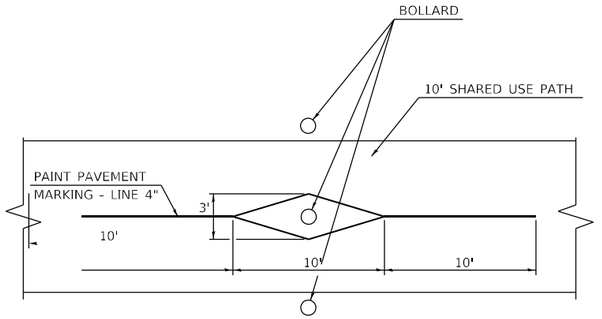
SUPERELEVATION TABLES
IL ROUTE 157 AND IL ROUTE 162

SCALE: NONE | SHEET 1 OF 1 SHEETS | Superelevation Tables-01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	234
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

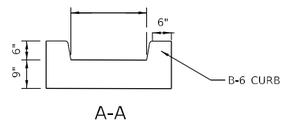


BOLLARD GATE PLAN VIEW

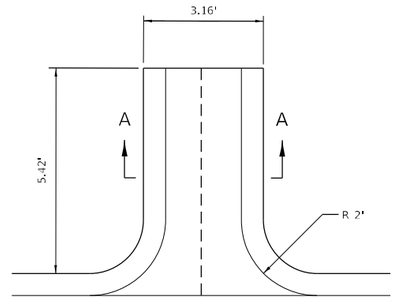


TYPICAL PAVEMENT MARKINGS AT BOLLARDS

BOLLARD GATE DETAIL



A-A



OUTLET DETAIL

N.T.S.

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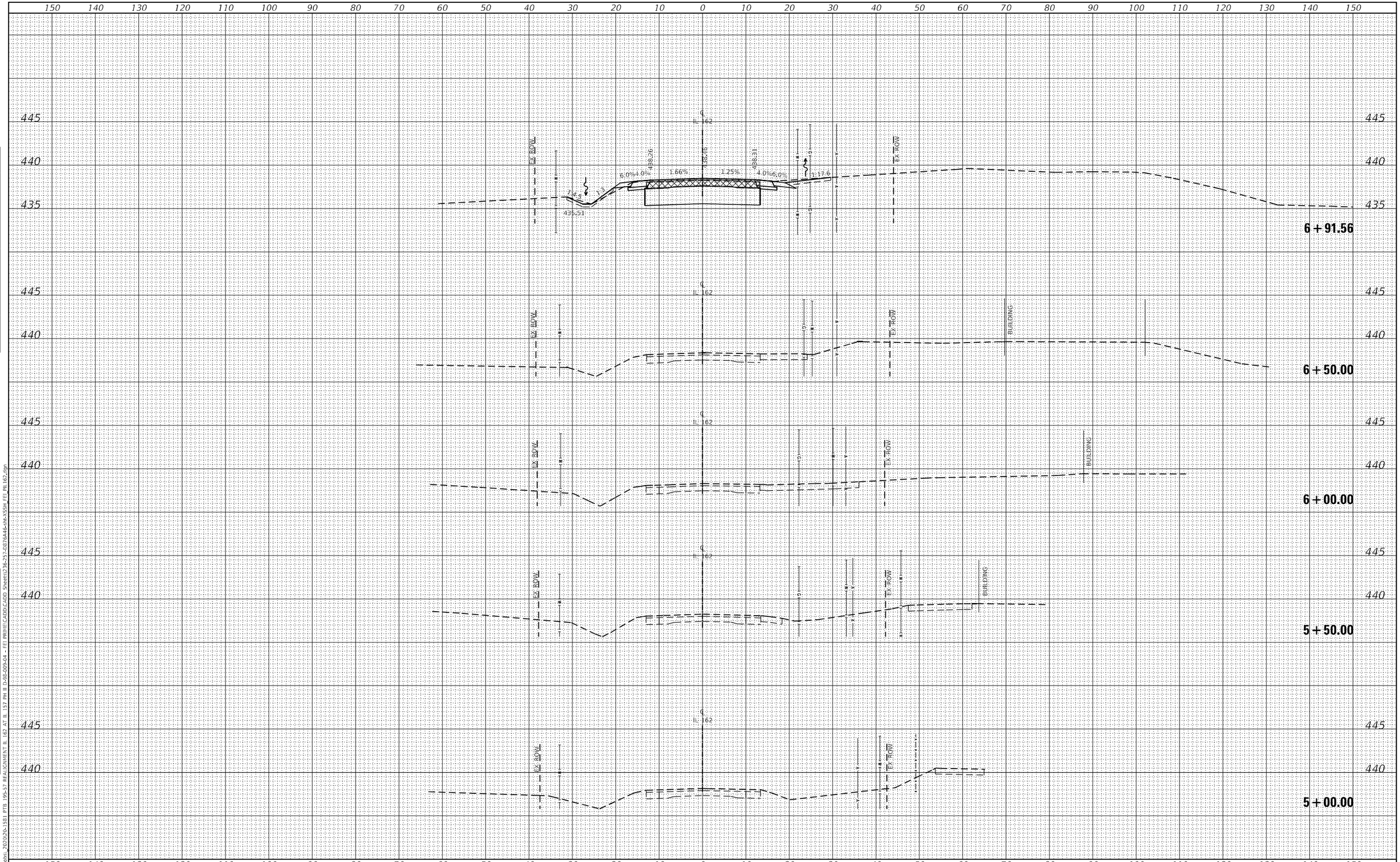
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	235
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

BY | DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

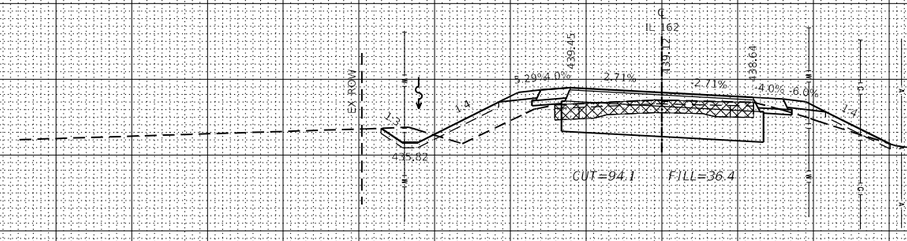
ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 1 OF 22 SHEETS | STA. 5+00.00 | TO STA. 6+91.56

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	236
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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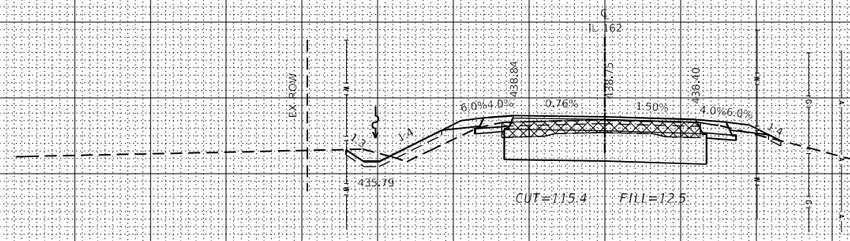
440
435
430



EX ROW
220.34' RT

8 + 50.00

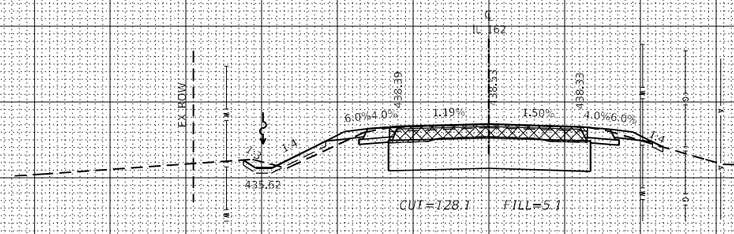
440
435



EX ROW
219.28' RT

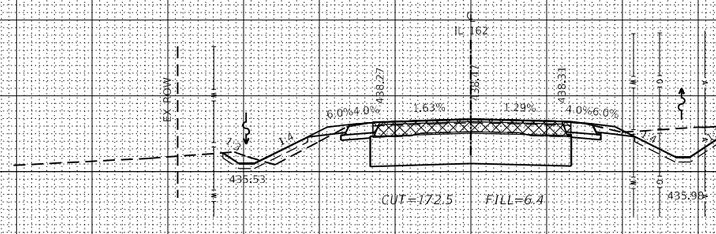
8 + 00.00

445
440
435



7 + 50.00

440
435



7 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

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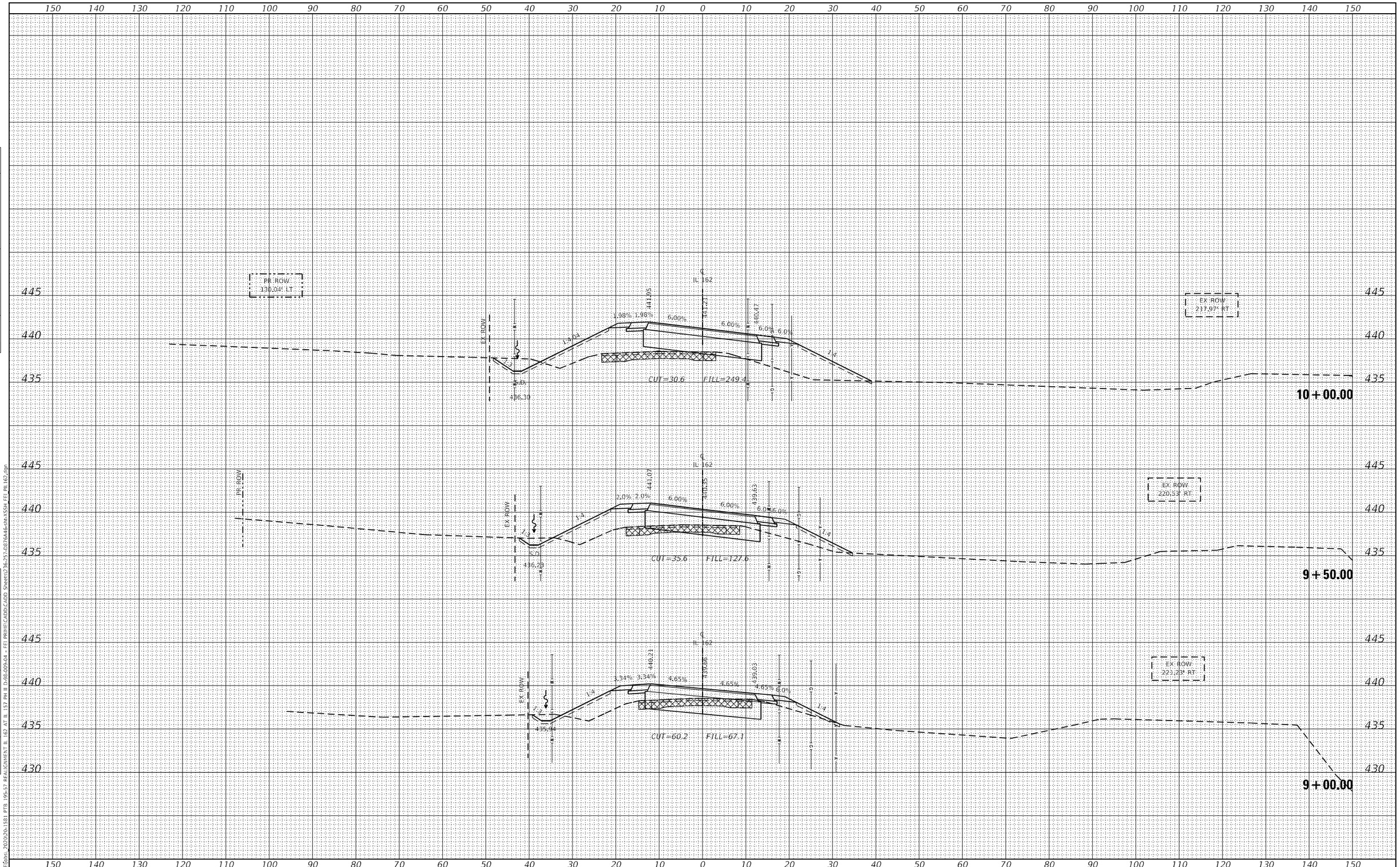
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 2 OF 22 SHEETS | STA. 7+00.00 | TO STA. 8+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	237
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

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

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 3 OF 22 SHEETS | STA. 9+00.00 | TO STA. 10+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	238
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

450 445 440 435

PR ROW
178.53' LT

EX ROW

436.54

6.0%

1:4

4.61% 3.82% 3.17% 3.17% 3.17% 6.0%

344.87

443.38

443.72

CUT=0.4 FILL=1015.8

1:4

EX ROW
198.65' RT

℄
IL 162

11 + 50.00

450 445 440 435

PR ROW
158.22' LT

EX ROW

436.43

3.22% 3.22% 4.68% 4.68% 4.68% 6.0%

444.03

443.35

442.60

1:4.13

1:4

CUT=1.0 FILL=750.8

EX ROW
207.08' RT

℄
IL 162

11 + 00.00

450 445 440 435

PR ROW
143.12' LT

EX ROW

436.36

2.00% 2.00% 6.00% 6.00% 6.0% 6.0%

443.03

442.25

441.72

1:4

1:4

CUT=18.0 FILL=492.0

EX ROW
213.50' RT

℄
IL 162

10 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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USER NAME = untitled	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

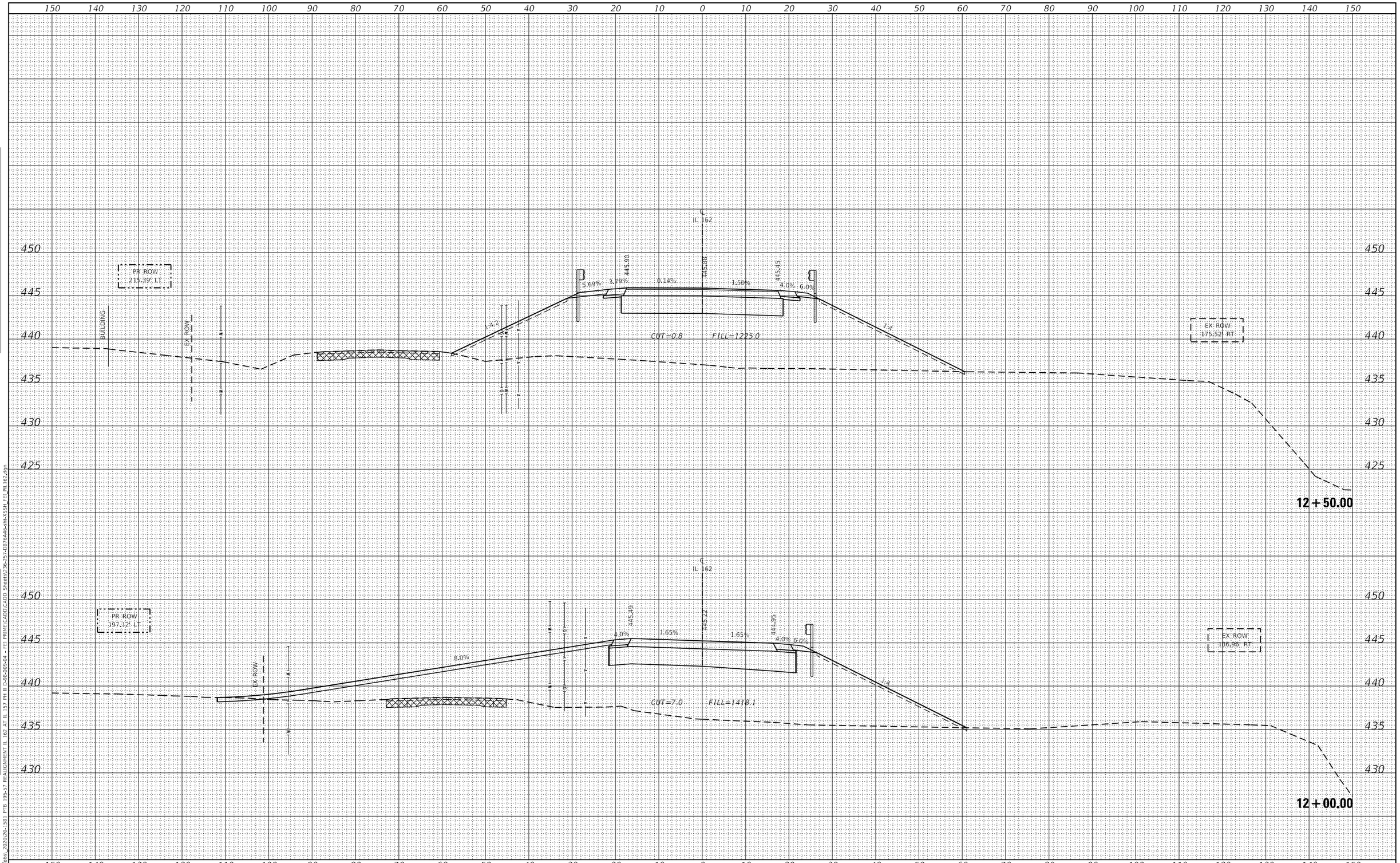
SCALE: 1"=10' | SHEET 4 OF 22 SHEETS | STA. 10+50.00 TO STA. 11+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	239
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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

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

MODEL:
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FINAL SURVEY	NOTE BOOK	NO.
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AREAS		
AREAS CHECKED		

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

BY	DATE

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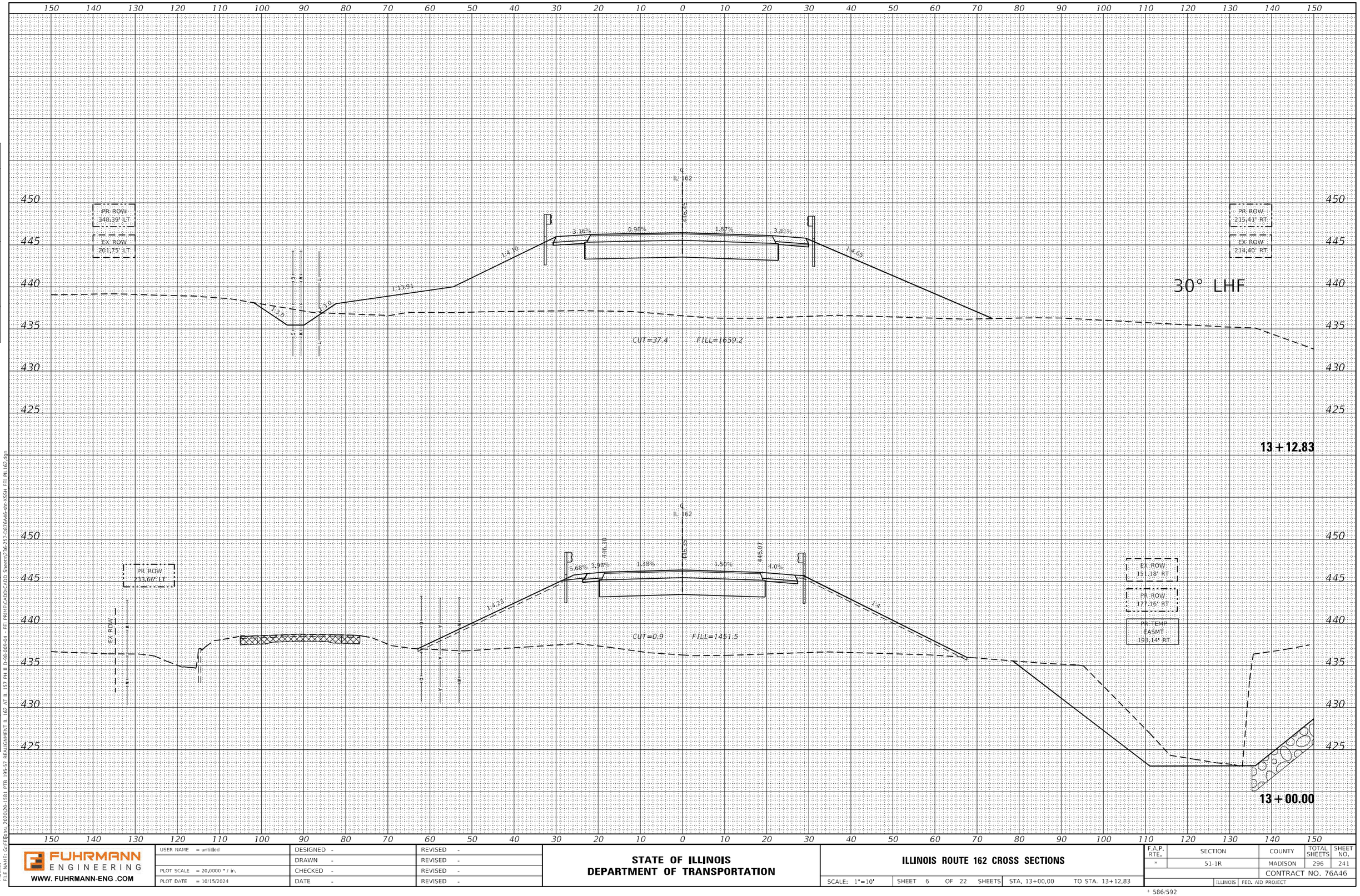
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 5 OF 22 SHEETS | STA. 12+00.00 | TO STA. 12+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	240
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL:
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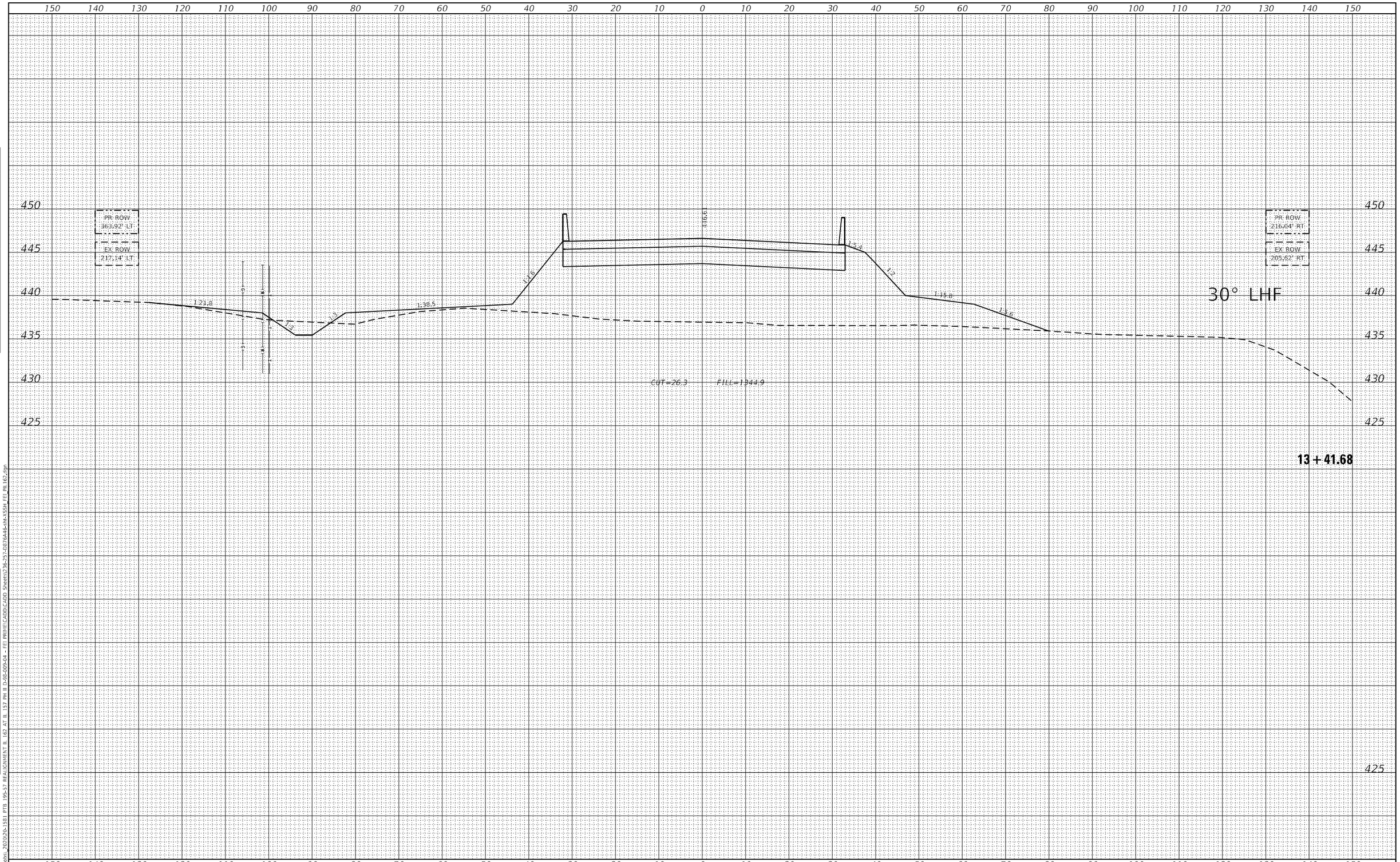
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 6 OF 22 SHEETS | STA. 13+00.00 | TO STA. 13+12.83

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	241
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 7 OF 22 SHEETS | STA. 13+41.68 | TO STA. 13+41.68

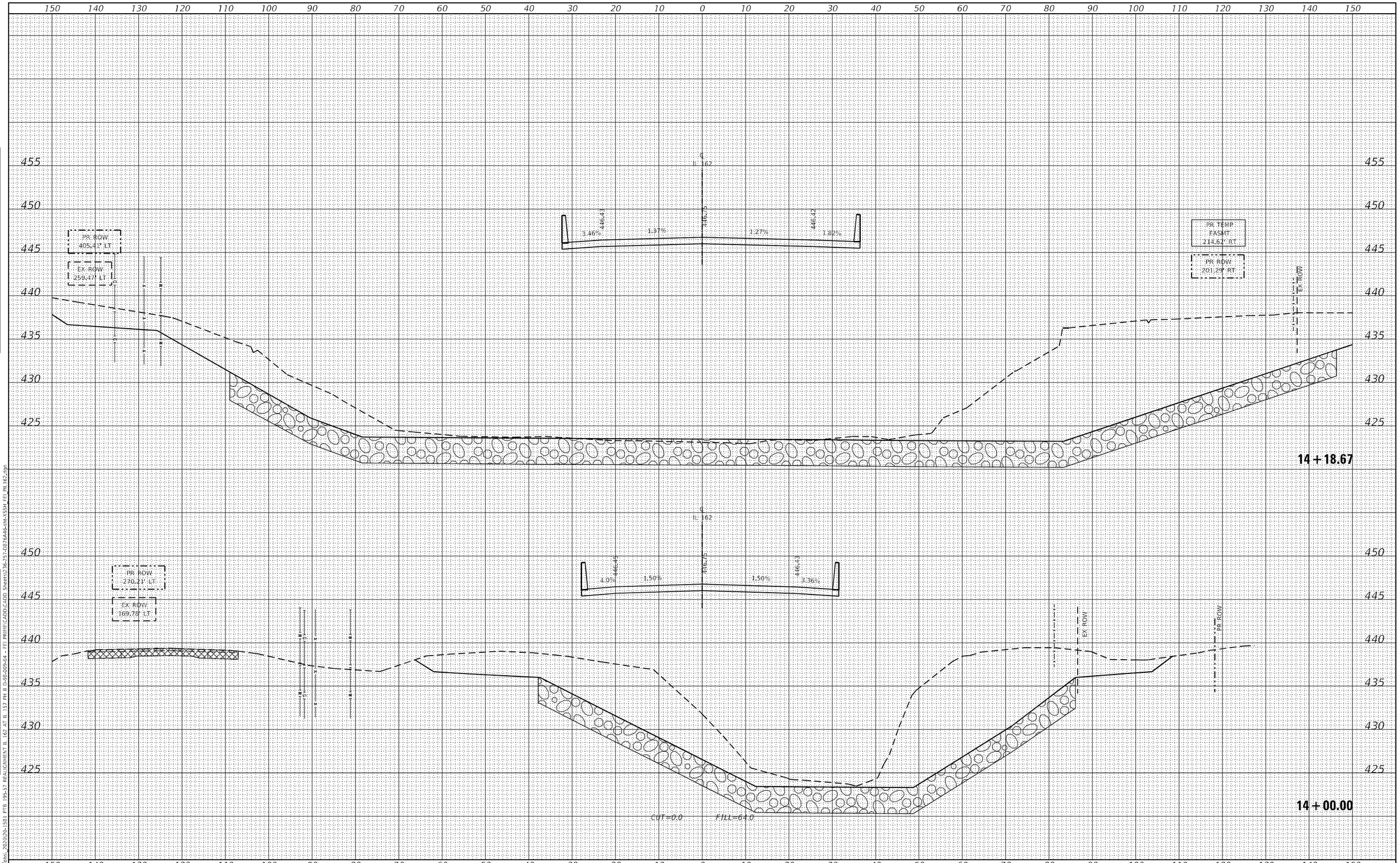
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	242
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

ORIGINAL SURVEY: NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

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

MODEL:
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FINAL SURVEY	NOTE BOOK	NO.
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

BY	DATE

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

BY	DATE

MODEL:
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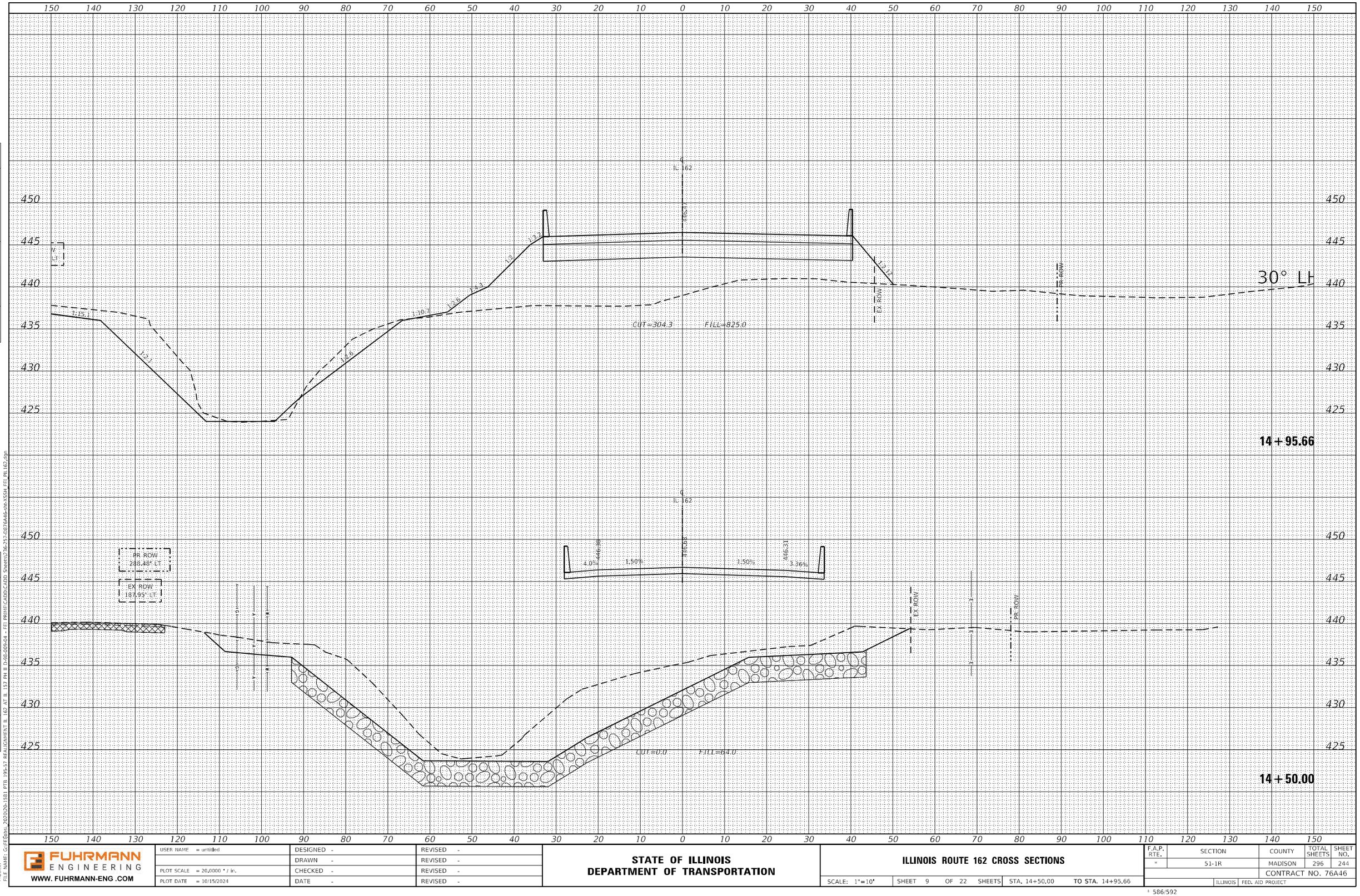
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 8 OF 22 SHEETS | STA. 14+00.00 | TO STA. 14+18.67

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	243
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 9 OF 22 SHEETS | STA. 14+50.00 | TO STA. 14+95.66

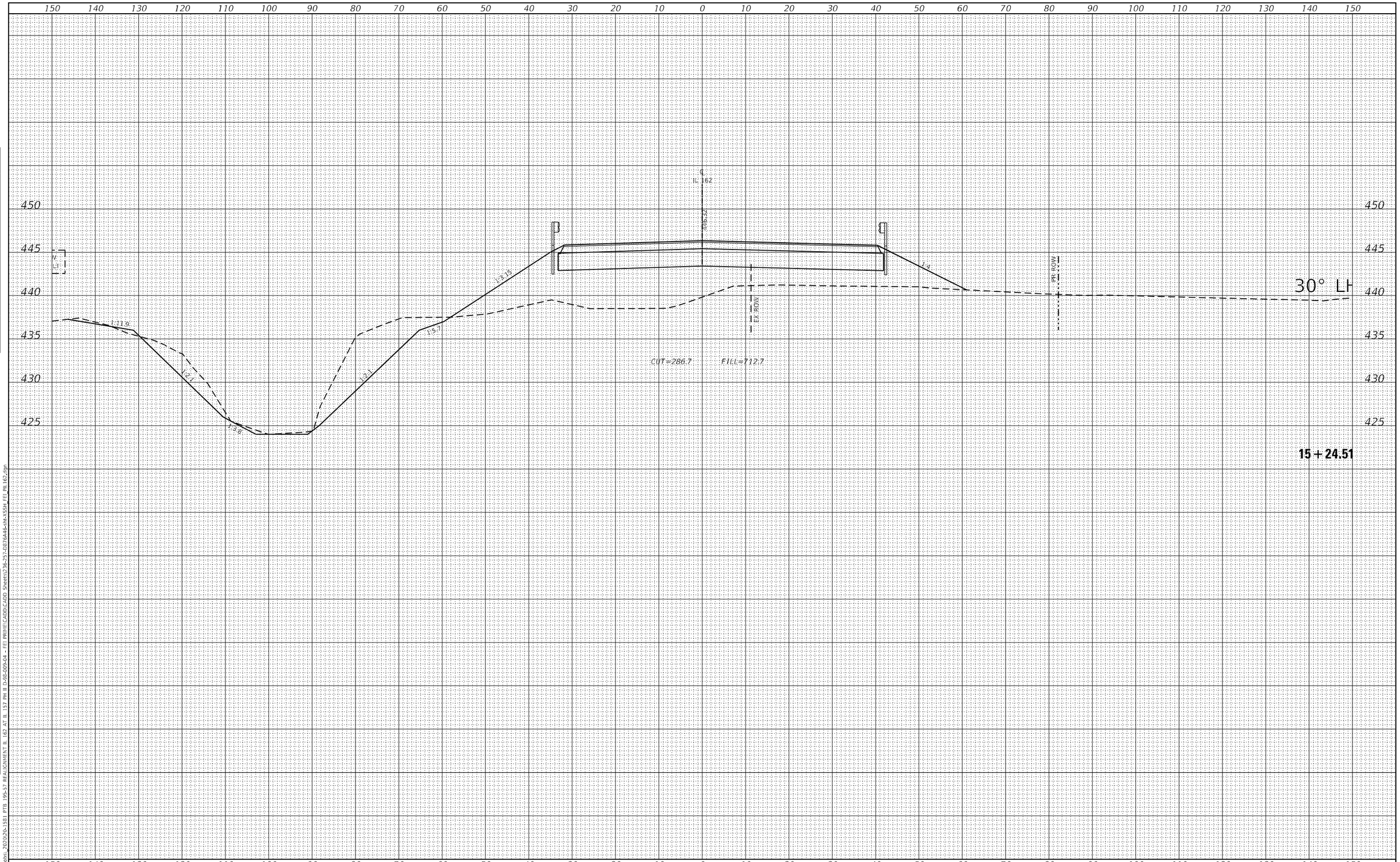
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	244
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

MODEL:
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FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY DATE

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

BY DATE

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -
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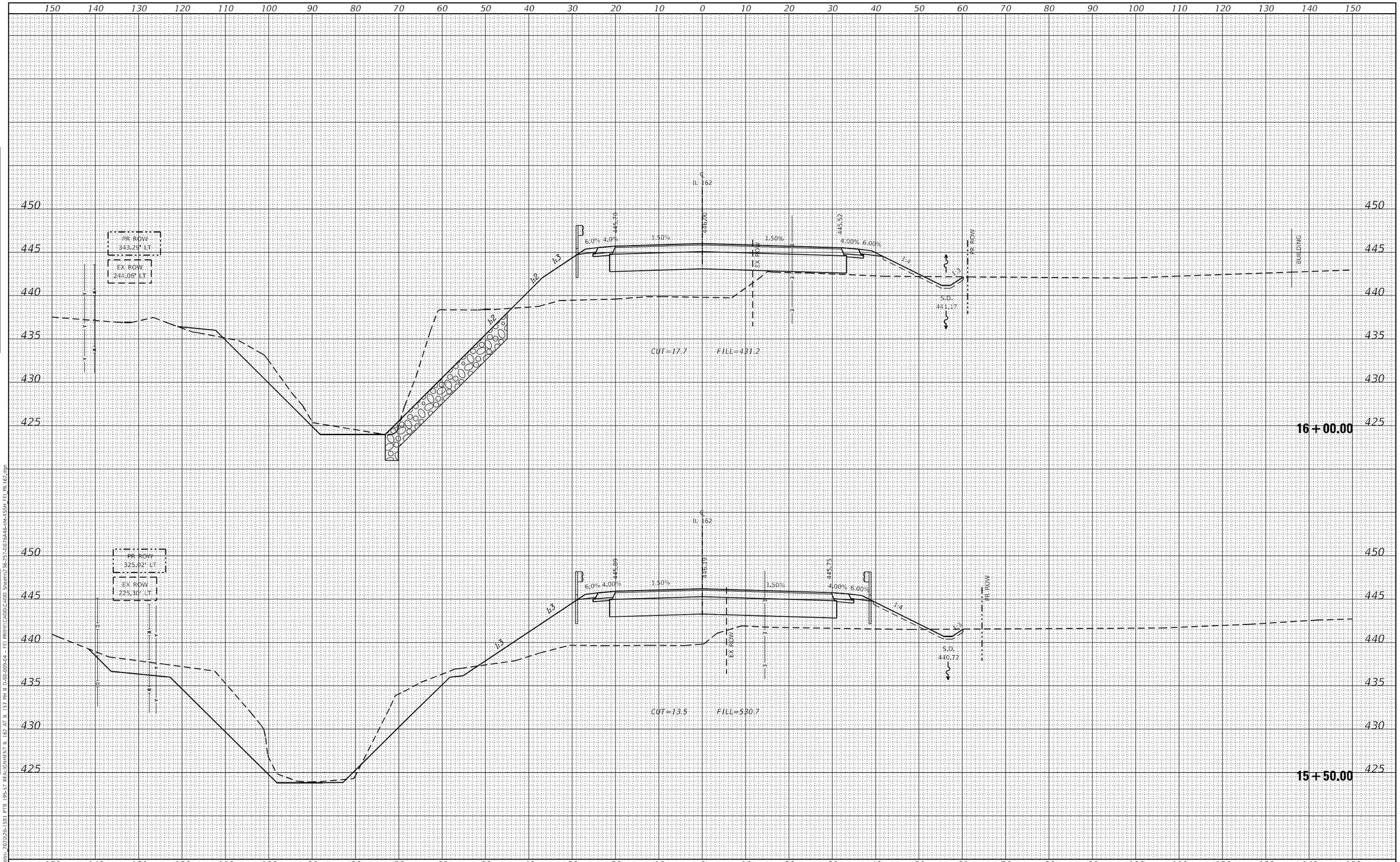
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 10 OF 22 SHEETS | STA. 15+24.51 | TO STA. 15+24.51

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	245
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



ORIGINAL SURVEY | FINAL SURVEY

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

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USER NAME = untitled	DESIGNED -	REVISED -
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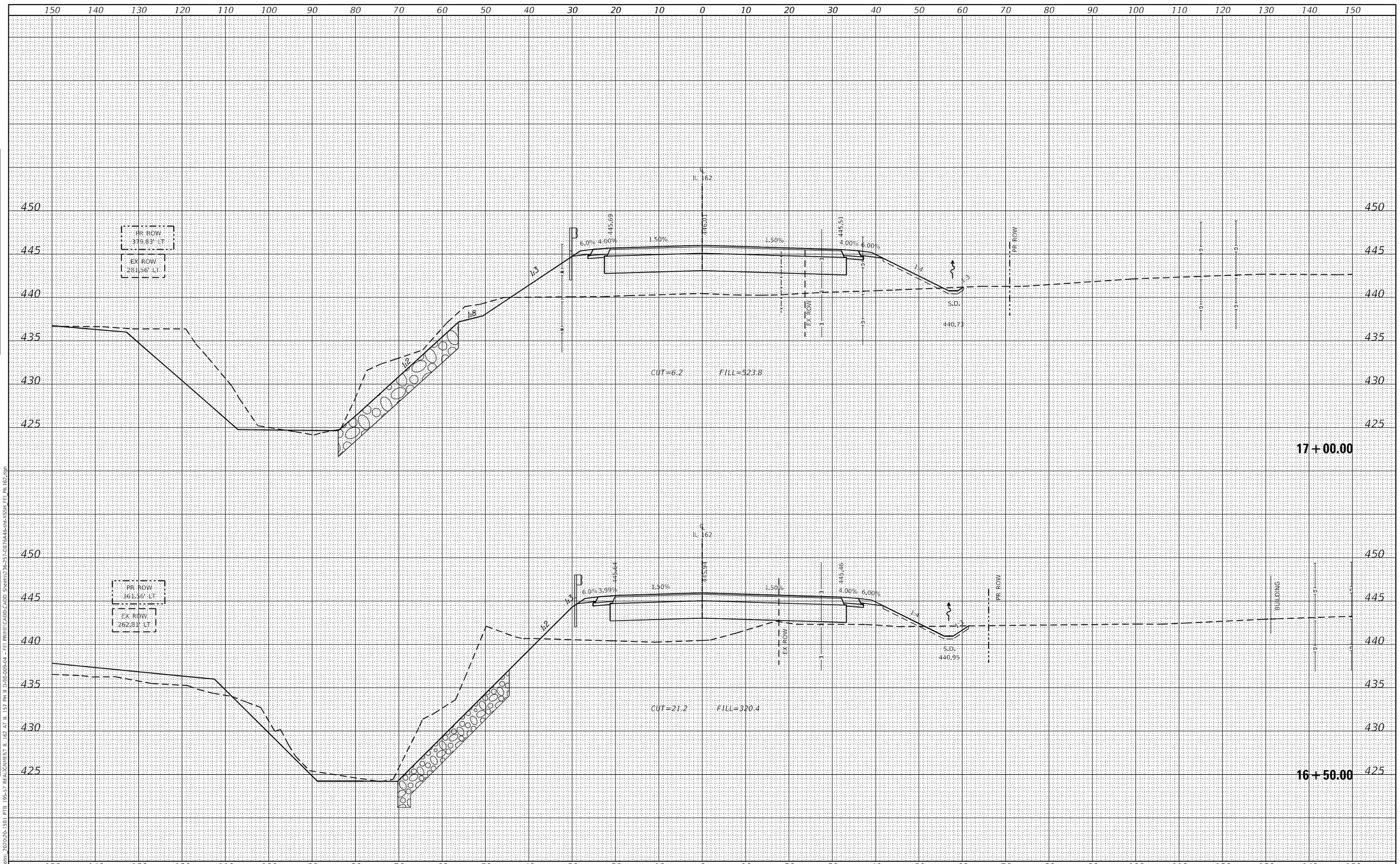
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 11 OF 22 SHEETS | STA. 15+50.00 | TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	246
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

* 586/592



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

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

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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 12 OF 22 SHEETS | STA. 16+50.00 | TO STA. 17+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	247
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

PR ROW
398.10' LT

EX ROW
335.38' LT
300.11' LT

℄
IL 162

445.90

446.70

6.0% 4.00% 2.17% 1.05% 1.50% 4.00% 8.00%

1:3 1:2.9 1:4 1:3

S.D.
440.44

CUT=42.8 FILL=794.8

450 445 440 435 430 425

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

17+50.00

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

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -	
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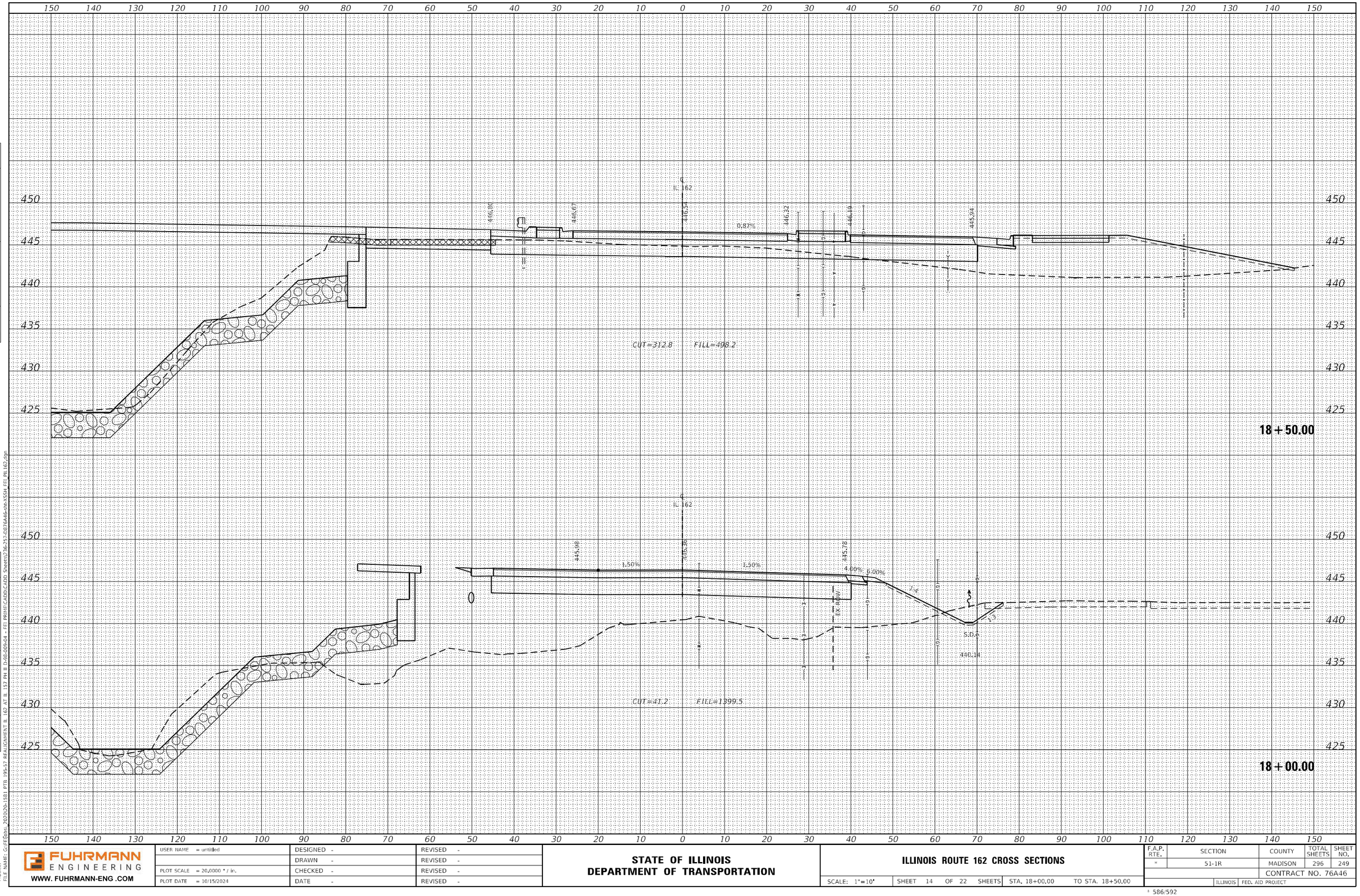
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 13 OF 22 SHEETS | STA. 17+50.00 | TO STA. 17+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	248
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

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PLOT DATE = 10/15/2024	DATE -	REVISED -

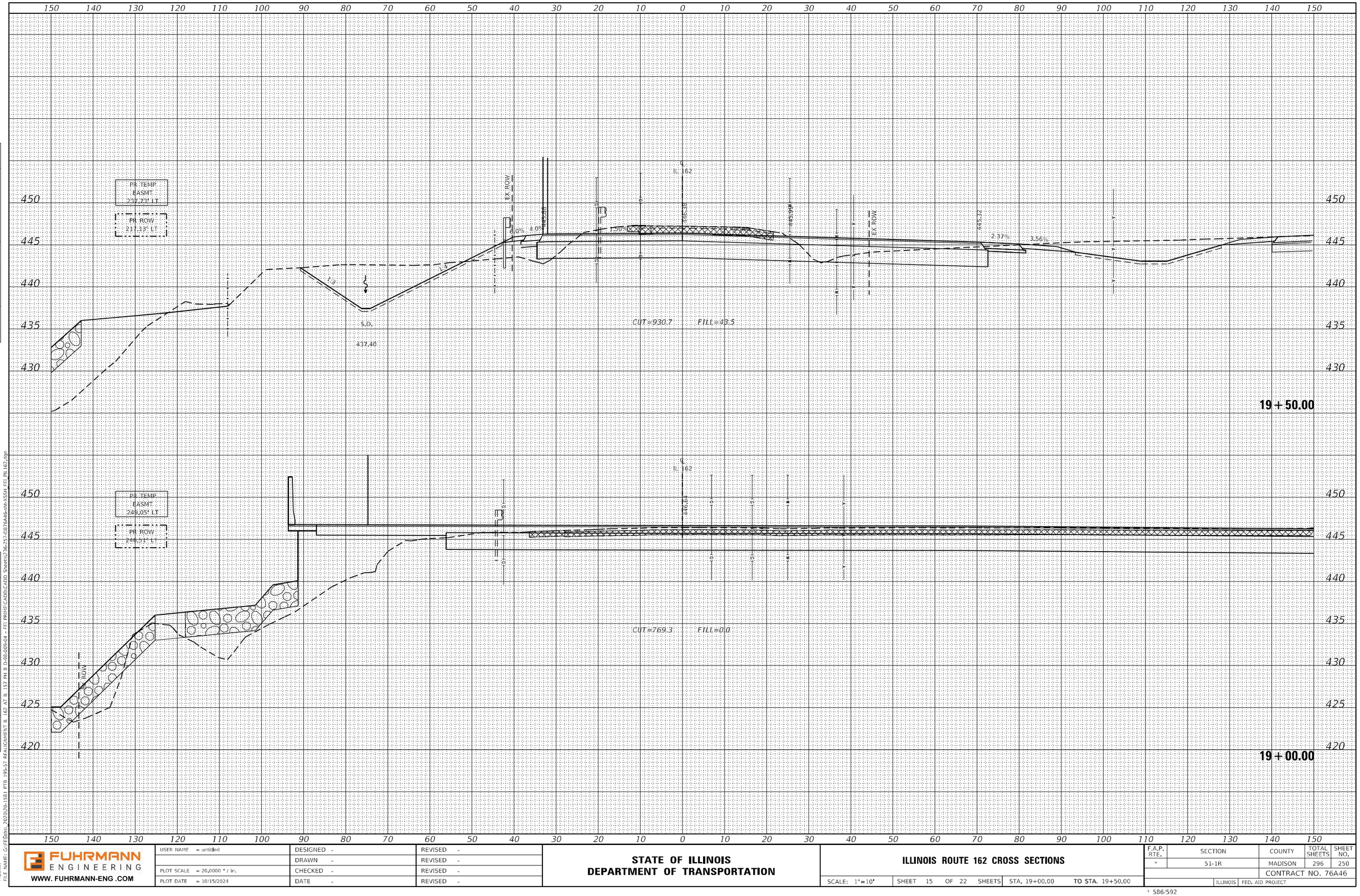
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 14 OF 22 SHEETS | STA. 18+00.00 | TO STA. 18+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	249
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

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

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PLOT DATE = 10/15/2024	DATE -	REVISED -

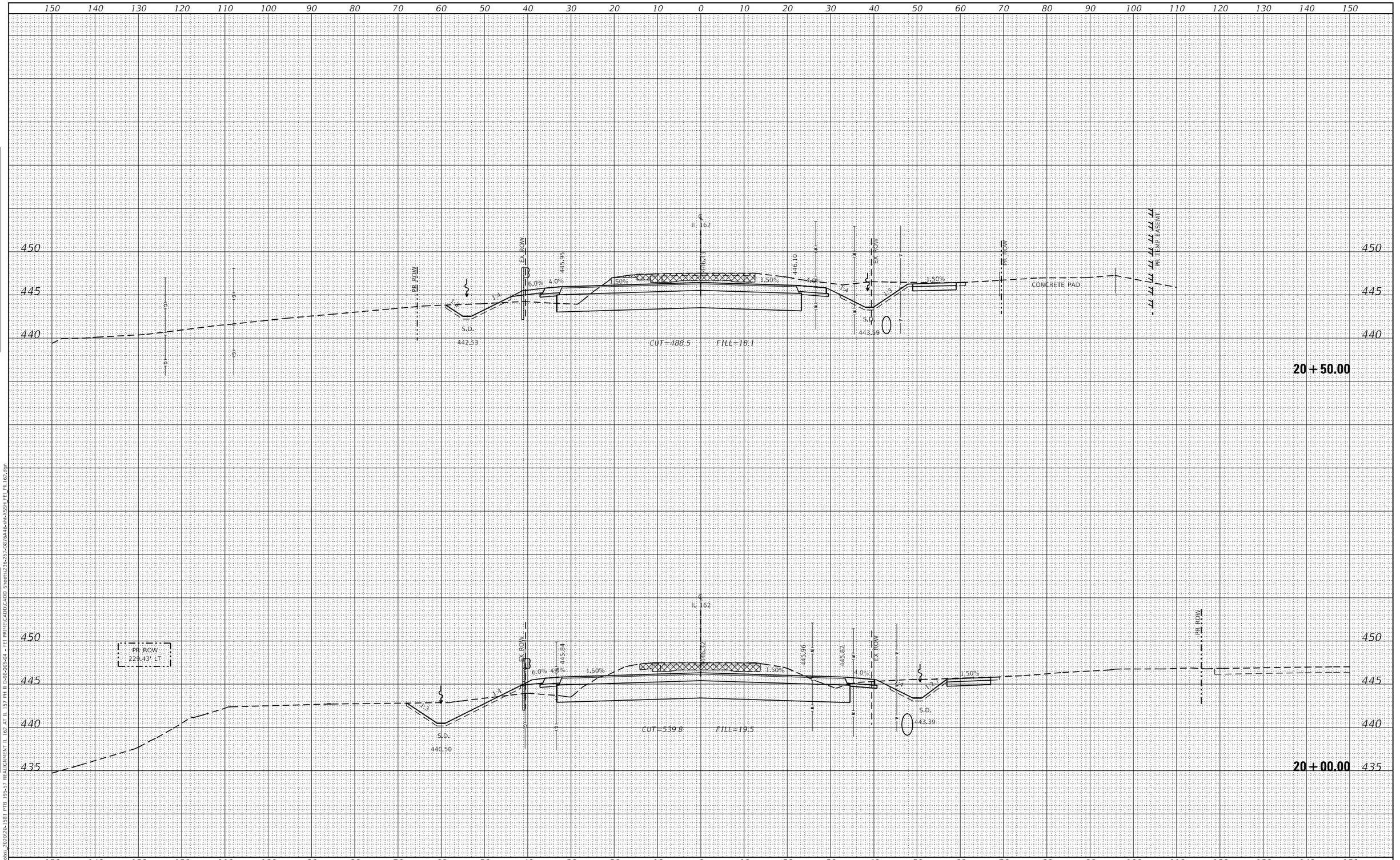
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 15 OF 22 SHEETS | STA. 19+00.00 | TO STA. 19+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	250
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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ILLINOIS ROUTE 162 CROSS SECTIONS

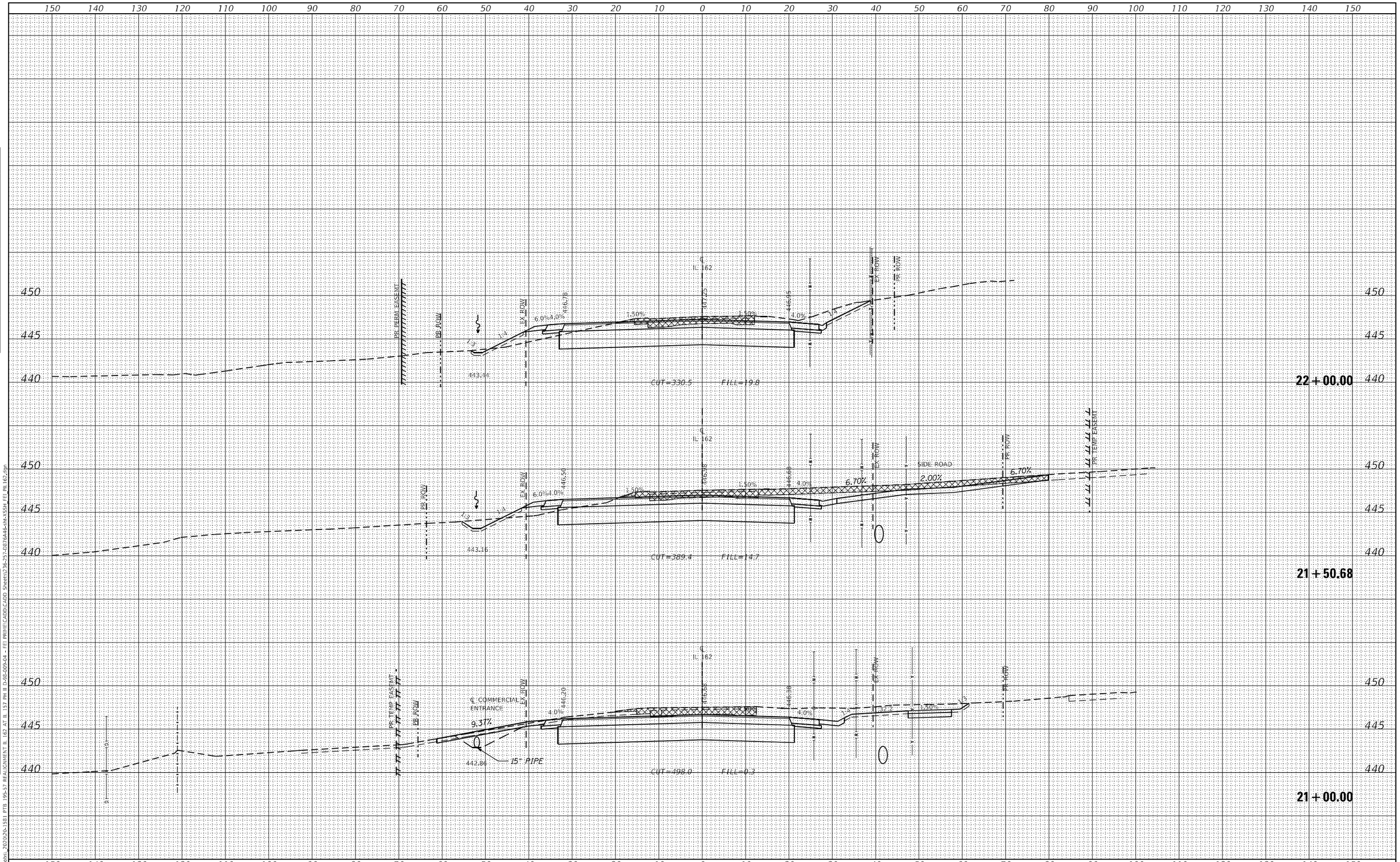
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	251
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

ORIGINAL SURVEY | FINAL SURVEY
NOTE BOOK
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AREAS
AREAS CHECKED
BY
DATE

MODEL:
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 17 OF 22 SHEETS | STA. 21+00.00 | TO STA. 22+00.00

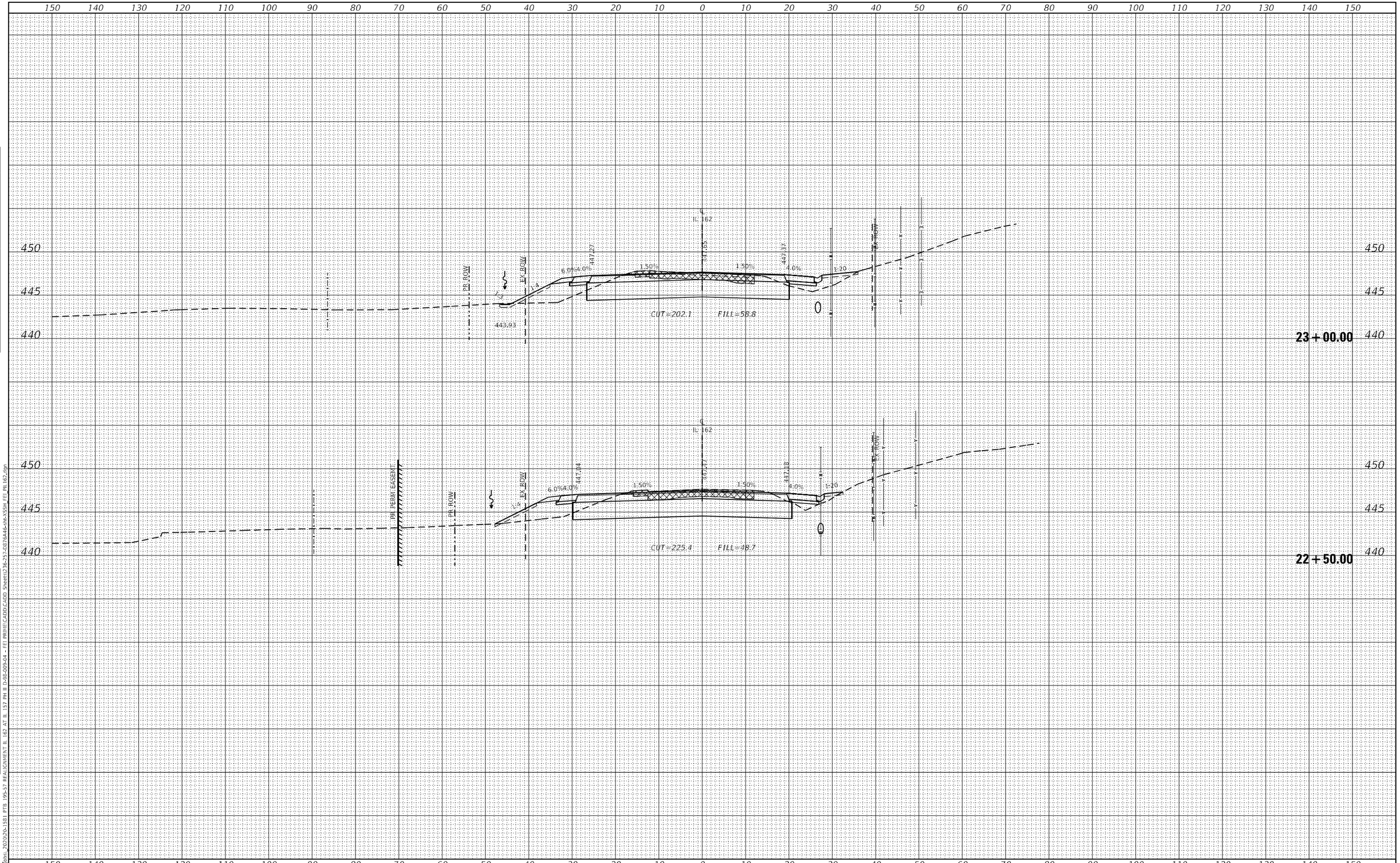
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	51-1R	MADISON	296	252
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

586/592

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

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



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

MODEL:
FILE NAME: G:\FE\Jobs\2020\20-1581 PTB 195-37 REALIGNMENT IL 162 AT IL 157 PH II D-38-009-04 - FEI PRIME\CADD\CADD Sheets\236-257-D876A46-tmt-XSSH FEI PII 162.dgn

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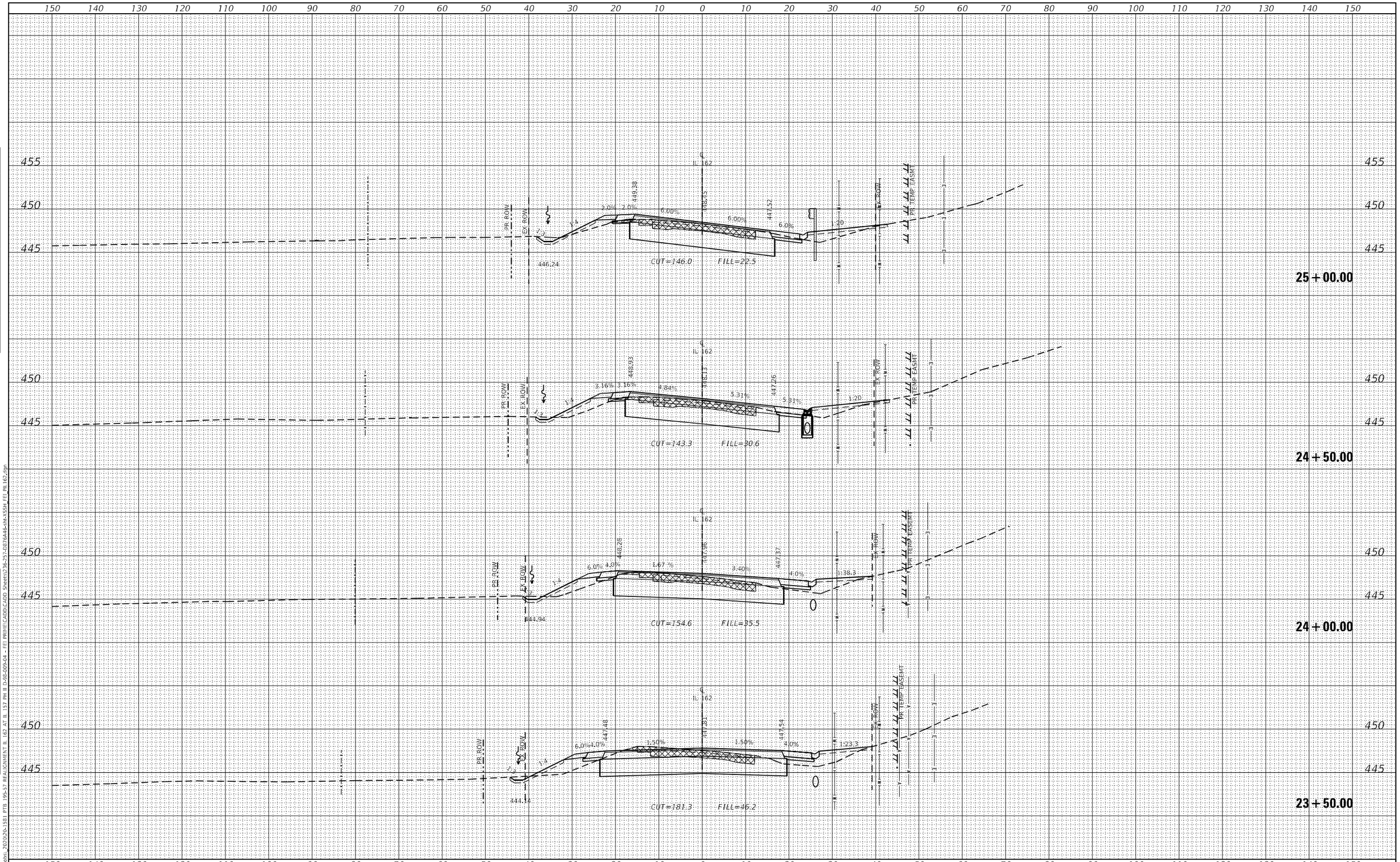
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 18 OF 22 SHEETS | STA. 22+50.00 | TO STA. 23+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	51-1R	MADISON	296	253
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL:
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	PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 19 OF 22 SHEETS | STA. 23+50.00 | TO STA. 25+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	254
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

455
450
445

PR TEMP EASEMENT
EX ROW
COMMERCIAL ENTRANCE (SKEWED)
5.73%
3.34%
3.34%
4.62%
5.69%
5.62%
1:20
℄
IL 162
450.79
450.20
449.47
CUT=135.2
FILL=28.6
26 + 41.37

455
450
445

PR ROW
EX ROW
℄
IL 162
450.36
449.33
448.74
2.0%
2.0%
6.00%
6.00%
6.0%
1:20
1:4
447.22
CUT=146.9
FILL=14.9
26 + 00.00

455
450
445

PR ROW
EX ROW
℄
IL 162
449.79
448.52
448.05
2.0%
2.0%
6.00%
6.00%
6.0%
1:20
1:4
PR TEMP EASMT
446.65
CUT=149.1
FILL=17.3
25 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

MODEL:
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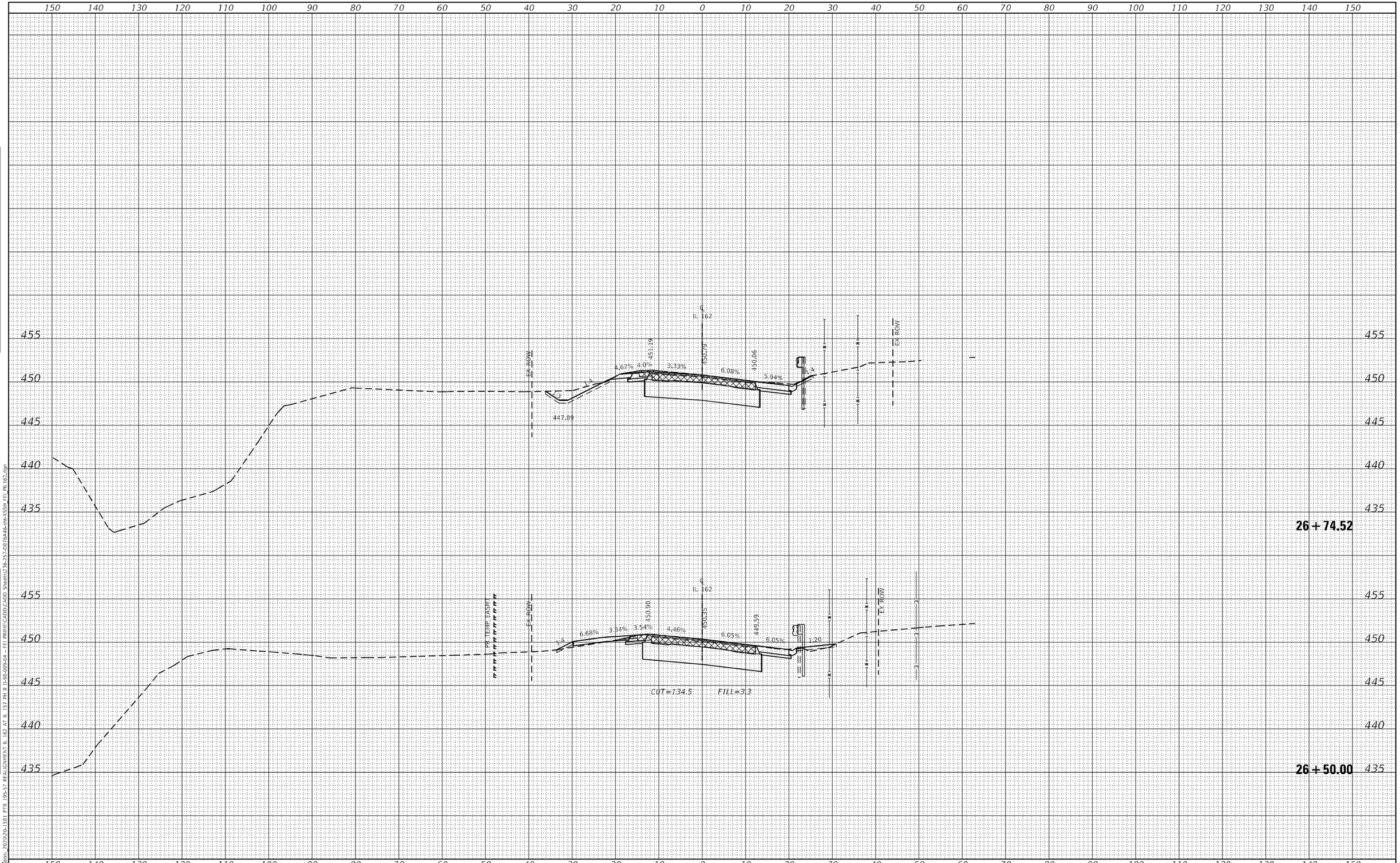
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 20 OF 22 SHEETS | STA. 25+50.00 | TO STA. 26+41.37

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	255
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

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

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WWW. FUHRMANN-ENG .COM

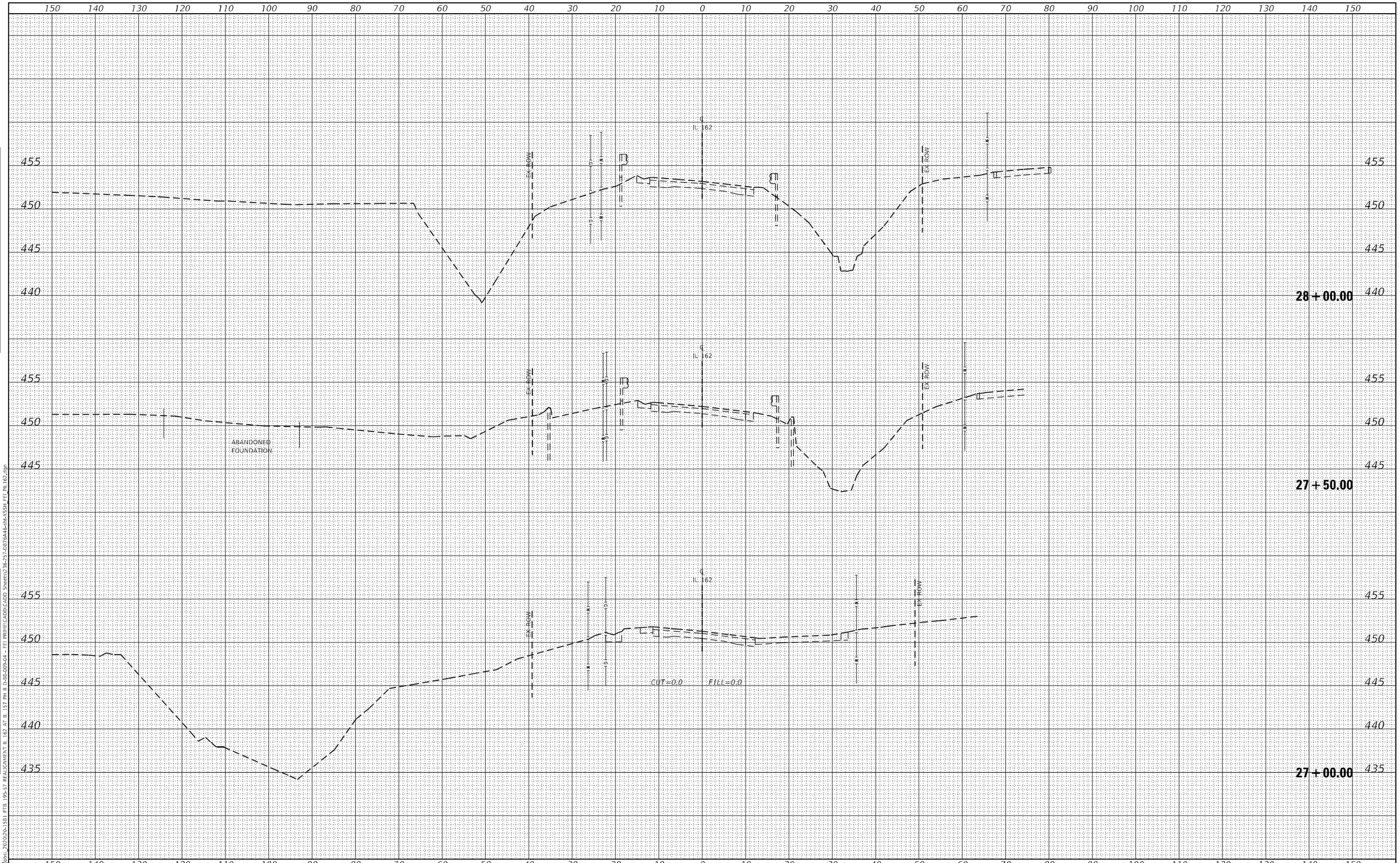
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 21 OF 22 SHEETS | STA. 26+50.00 | TO STA. 26+74.52

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	256
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL:
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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

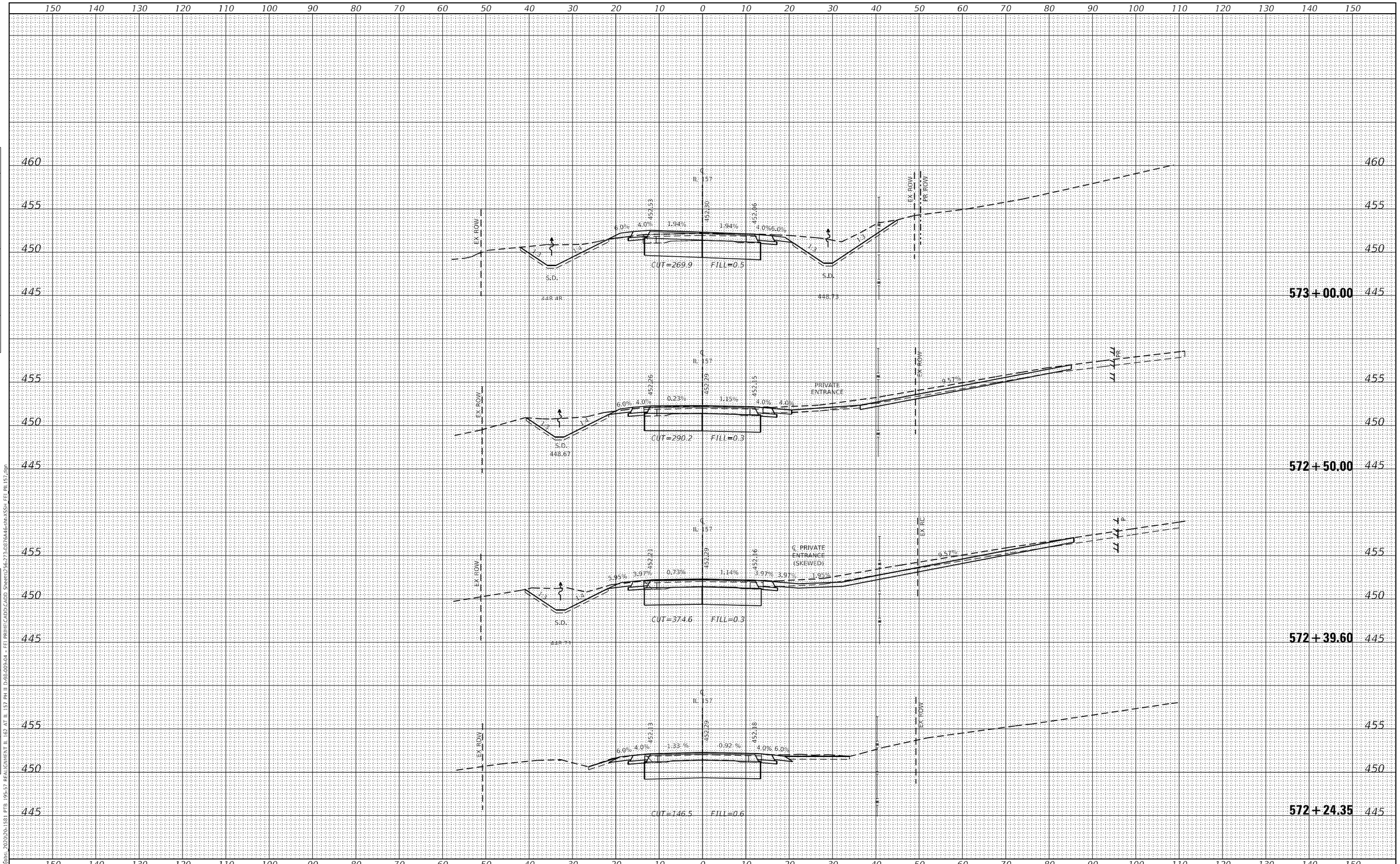
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 162 CROSS SECTIONS

SCALE: 1"=10' | SHEET 22 OF 22 SHEETS | STA. 27+00.00 | TO STA. 28+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	257
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

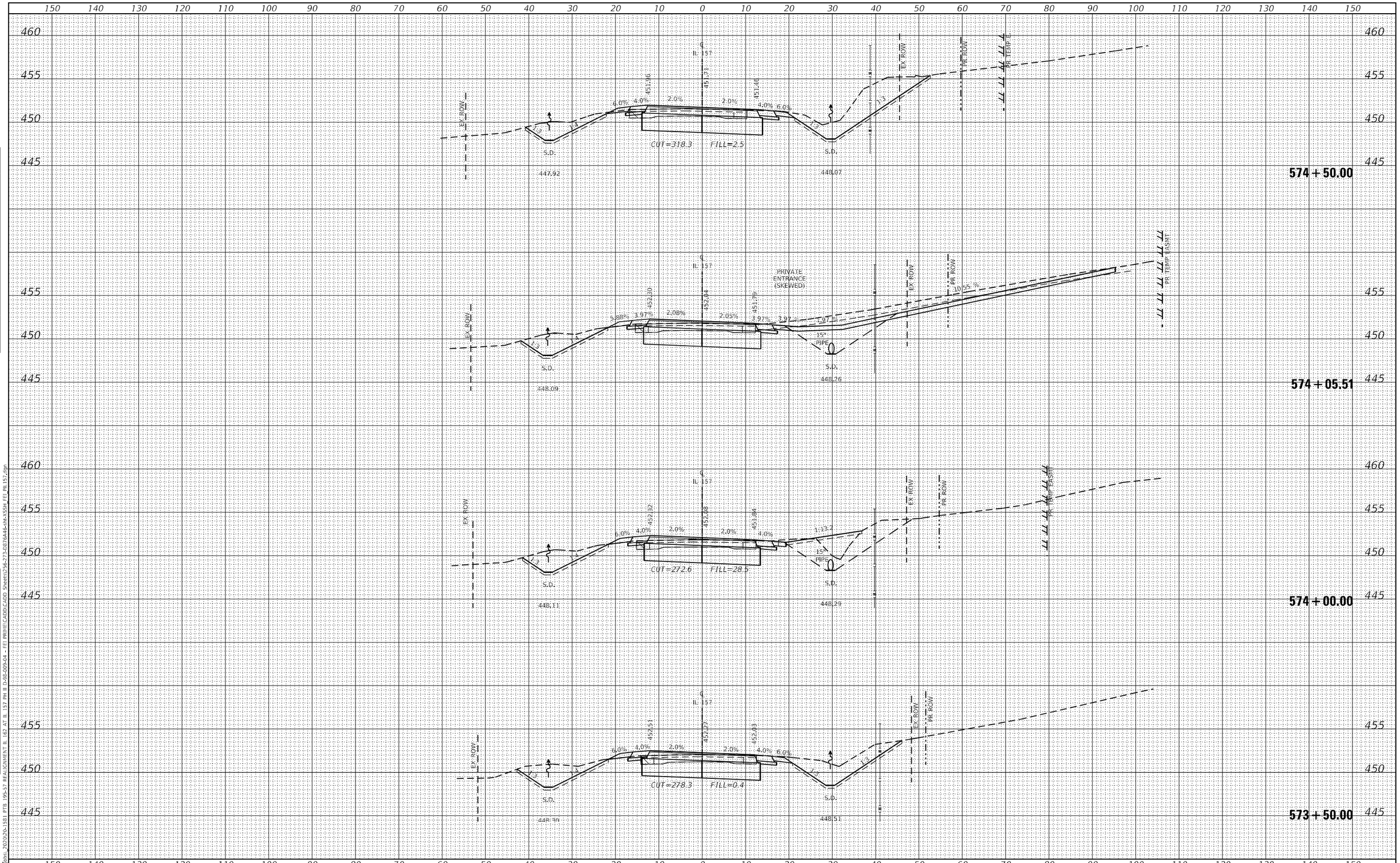
SCALE: 1"=10' | SHEET 1 OF 18 SHEETS | STA. 572+24.35 TO STA. 573+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	258
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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

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

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FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = untitled	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

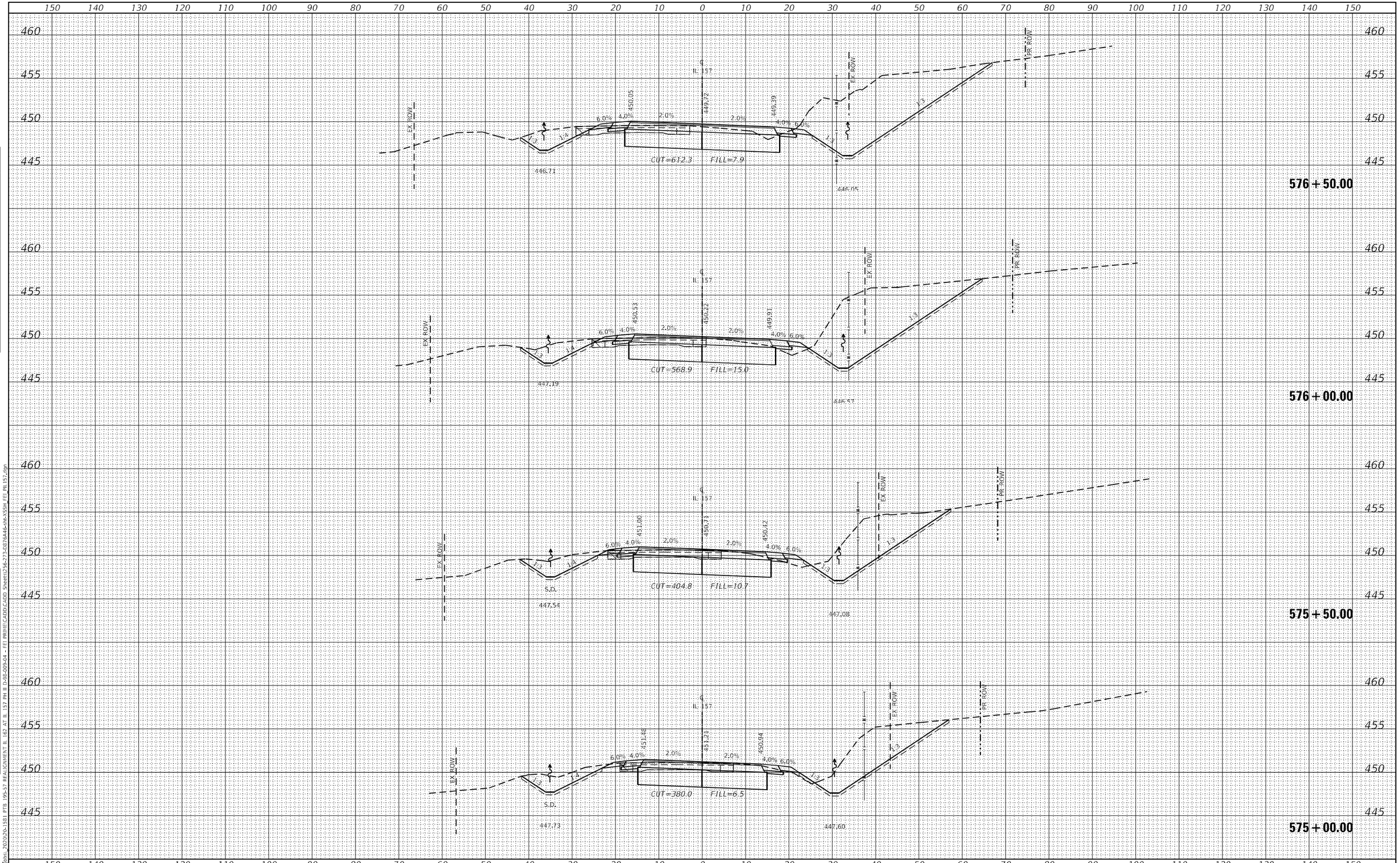
SCALE: 1"=10' | SHEET 2 OF 18 SHEETS | STA. 573+50.00 TO STA. 574+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	259
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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

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

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FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = untitled	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

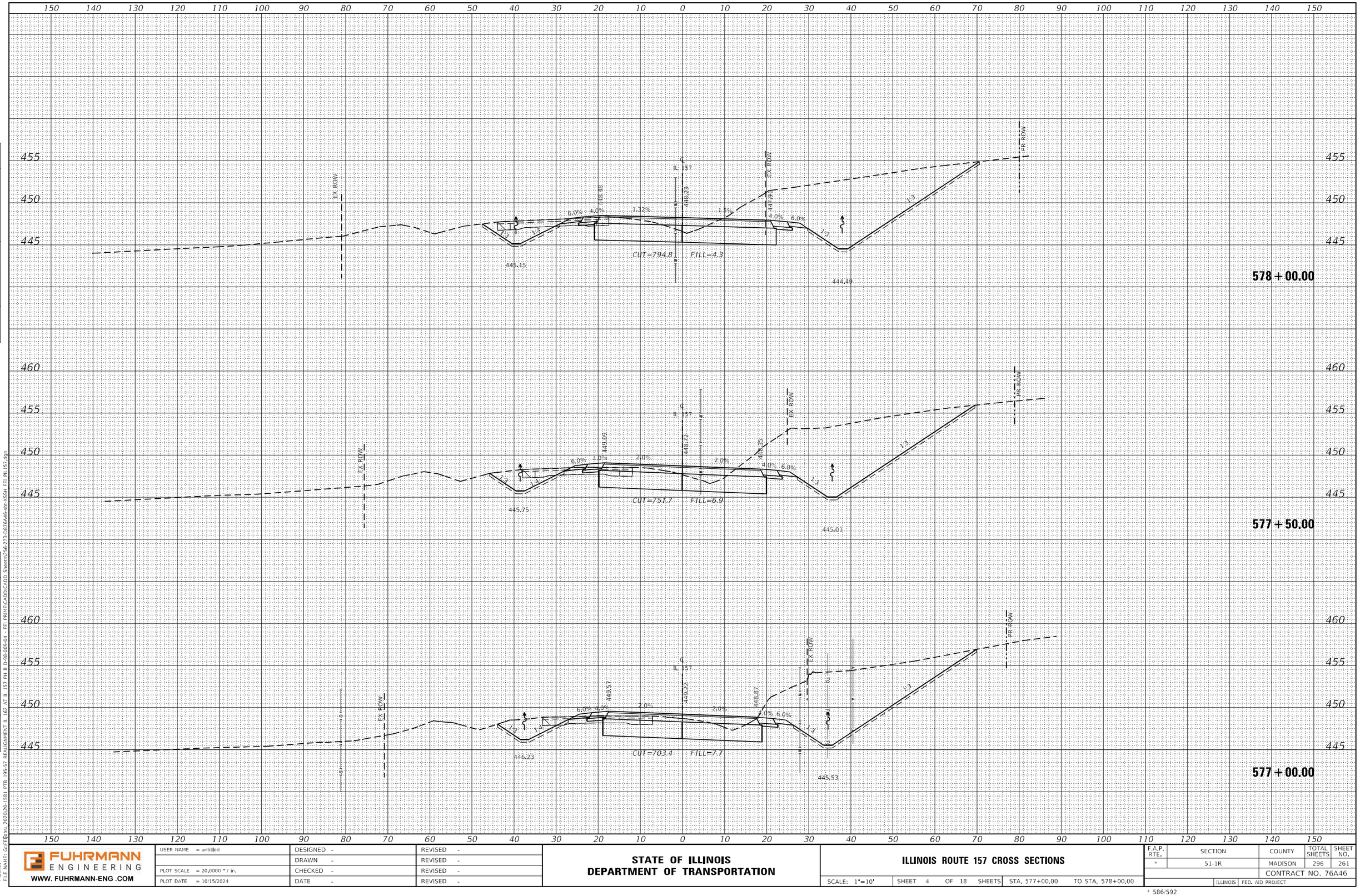
SCALE: 1"=10' | SHEET 3 OF 18 SHEETS | STA. 575+00.00 TO STA. 576+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	260
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

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

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

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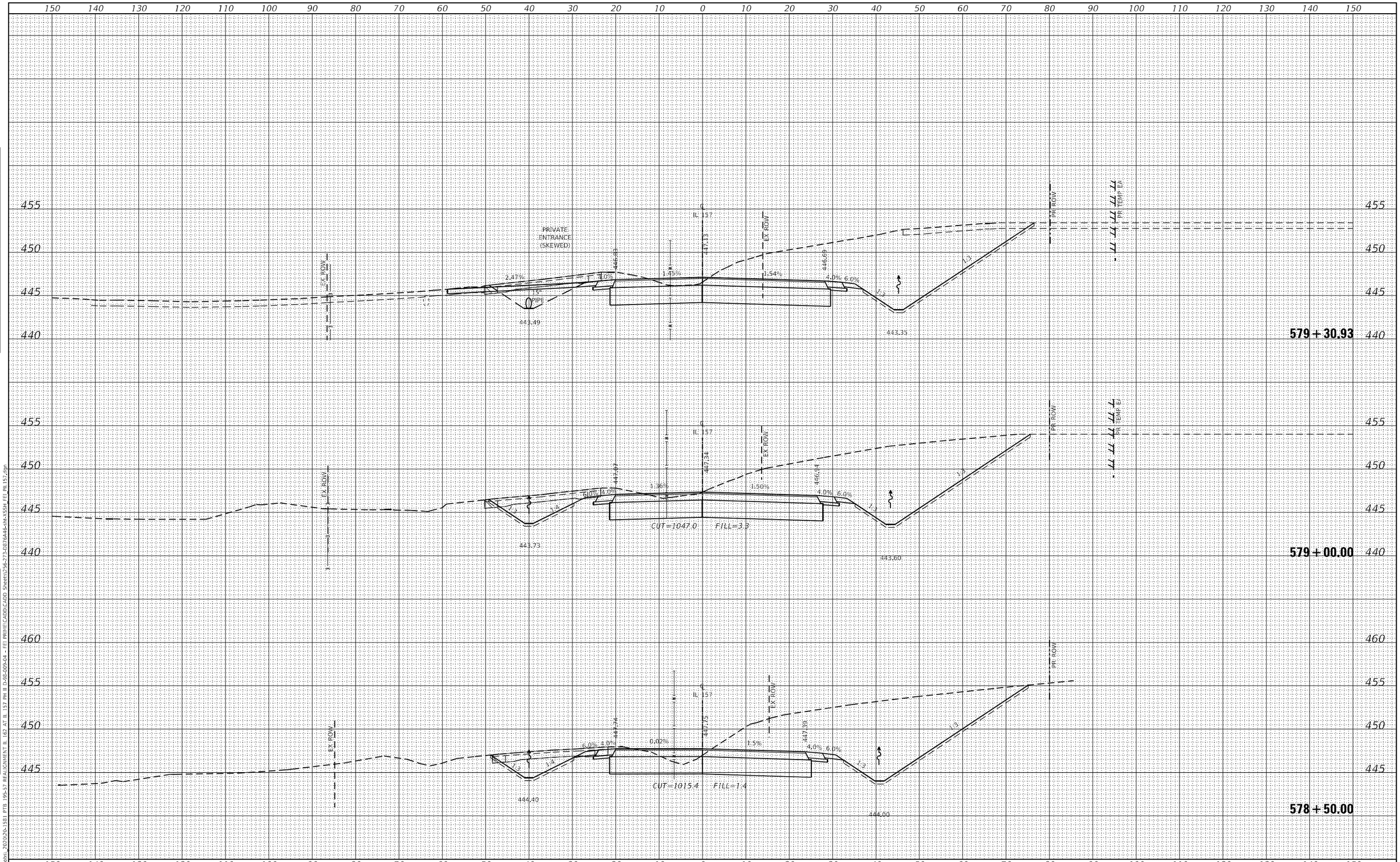
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		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		SCALE: 1"=10' SHEET 4 OF 18 SHEETS STA. 577+00.00 TO STA. 578+00.00
	PLOT DATE = 10/15/2024	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	261
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

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

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

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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 5 OF 18 SHEETS | STA. 578+50.00 | TO STA. 579+30.93

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	262
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

455 450 445 440

CAROLL LANE

C
IL 157

EX ROW

PR ROW

PR TEMP EASM

18" PIPE

442.68

446.16

446.46

445.98

441.45

S.D.

CUT=615.0 FILL=30.1

581 + 00.00

446.27

446.57

442.93

442.95

CUT=706.0 FILL=4.2

580 + 50.00

446.44

446.75

446.29

443.11

442.94

CUT=877.5 FILL=8.2

580 + 00.00

446.71

446.57

443.37

443.23

CUT=1026.1 FILL=3.2

579 + 50.00

6.8% 4.0% 6.0% 1.5% 1:3 1:4 1:2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

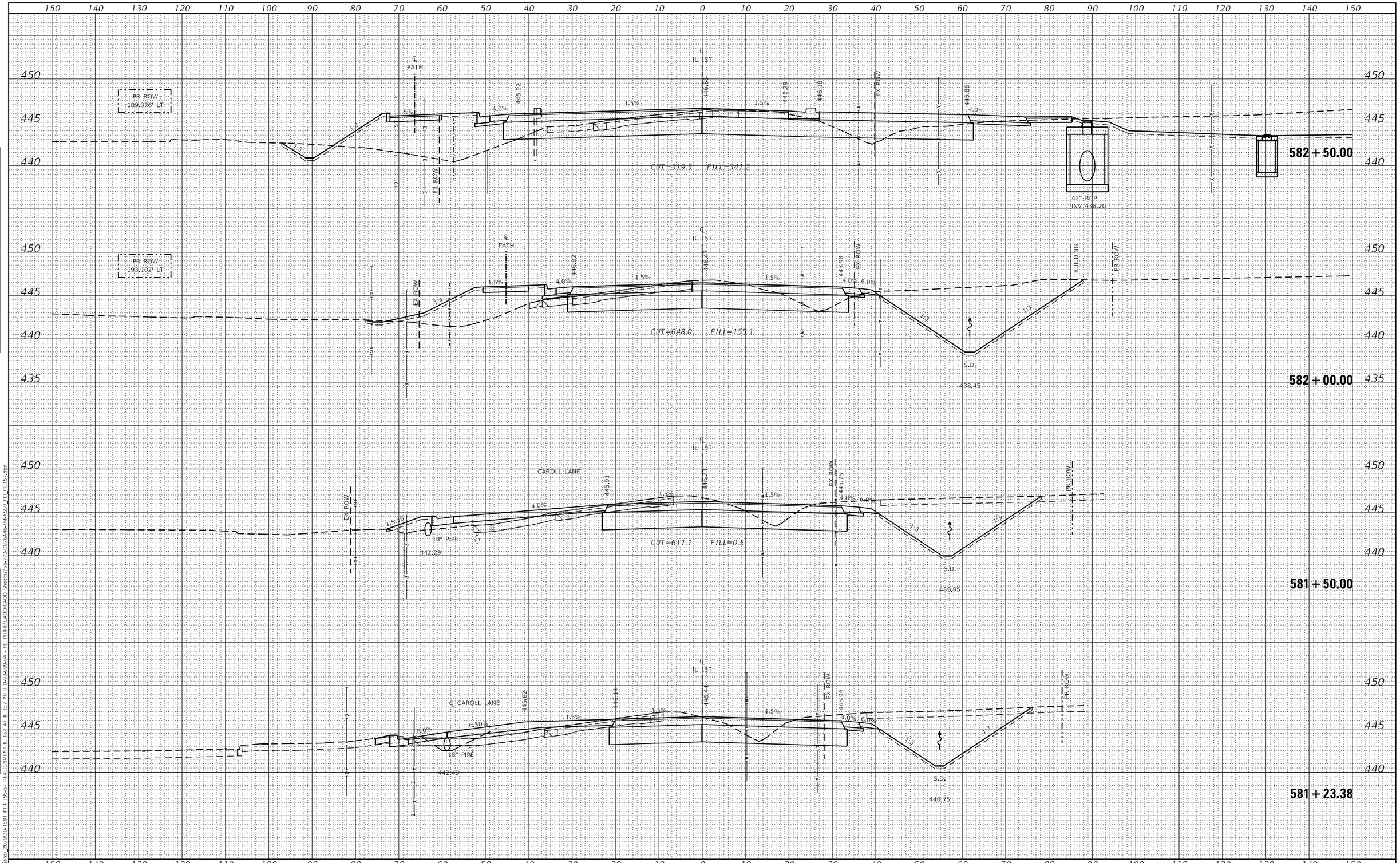
SCALE: 1"=10' | SHEET 6 OF 18 SHEETS | STA. 579+50.00 TO STA. 581+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	263
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

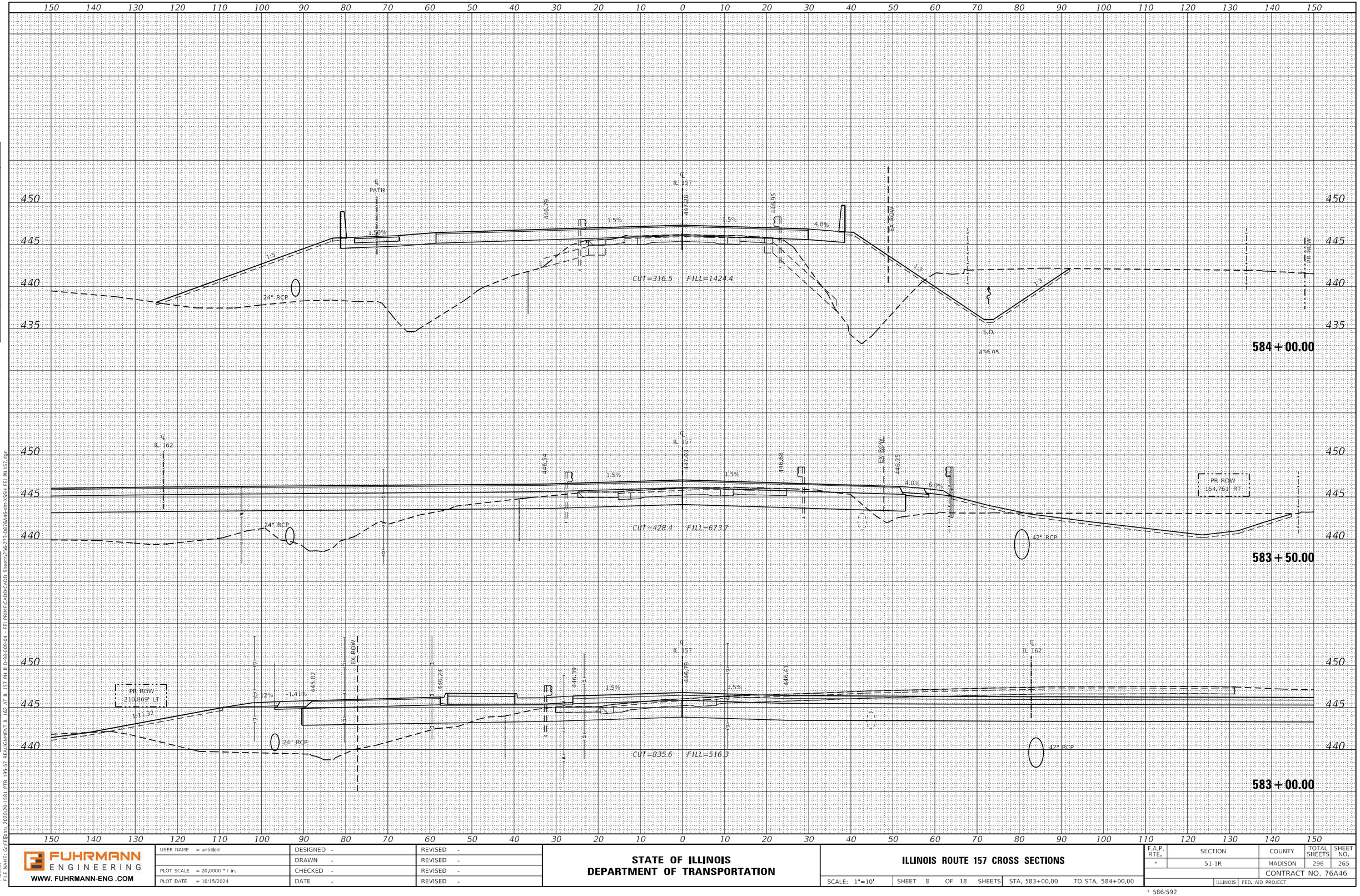
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	264
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

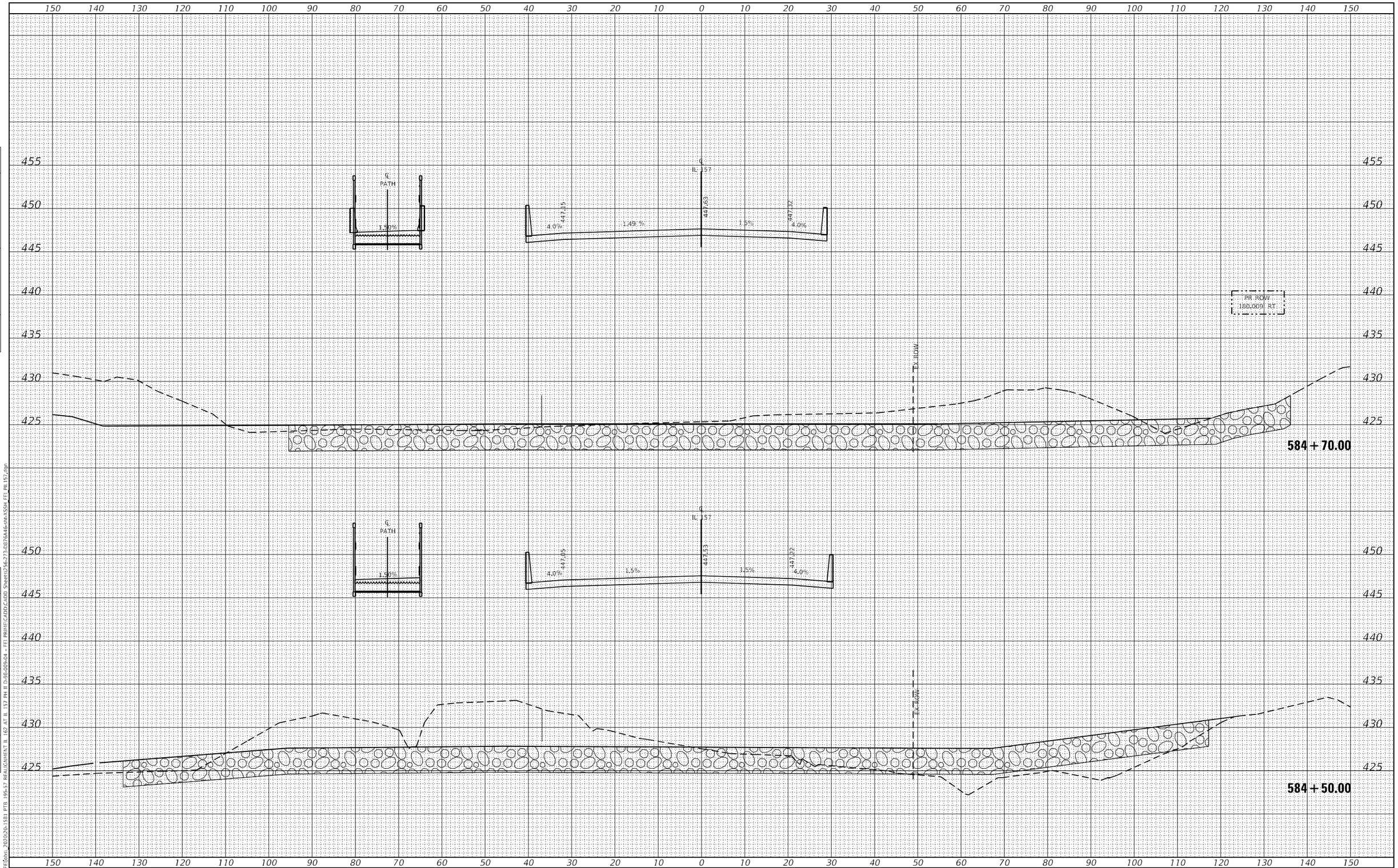
SCALE: 1"=10' | SHEET 8 OF 18 SHEETS | STA. 583+00.00 | TO STA. 584+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	265
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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

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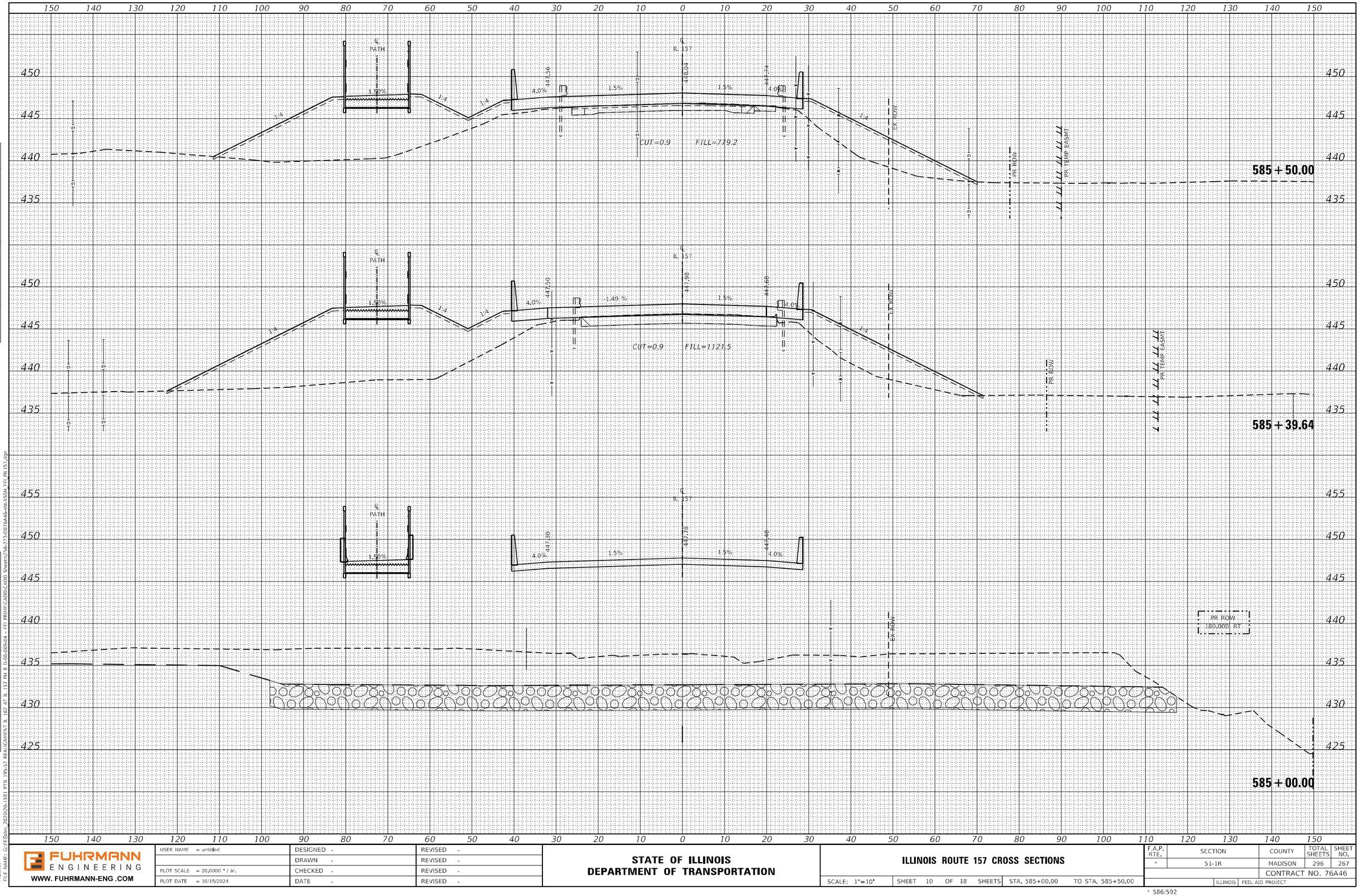
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 9 OF 18 SHEETS | STA. 584+50.00 | TO STA. 584+70.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	266
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
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ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 10 OF 18 SHEETS | STA. 585+00.00 | TO STA. 585+50.00

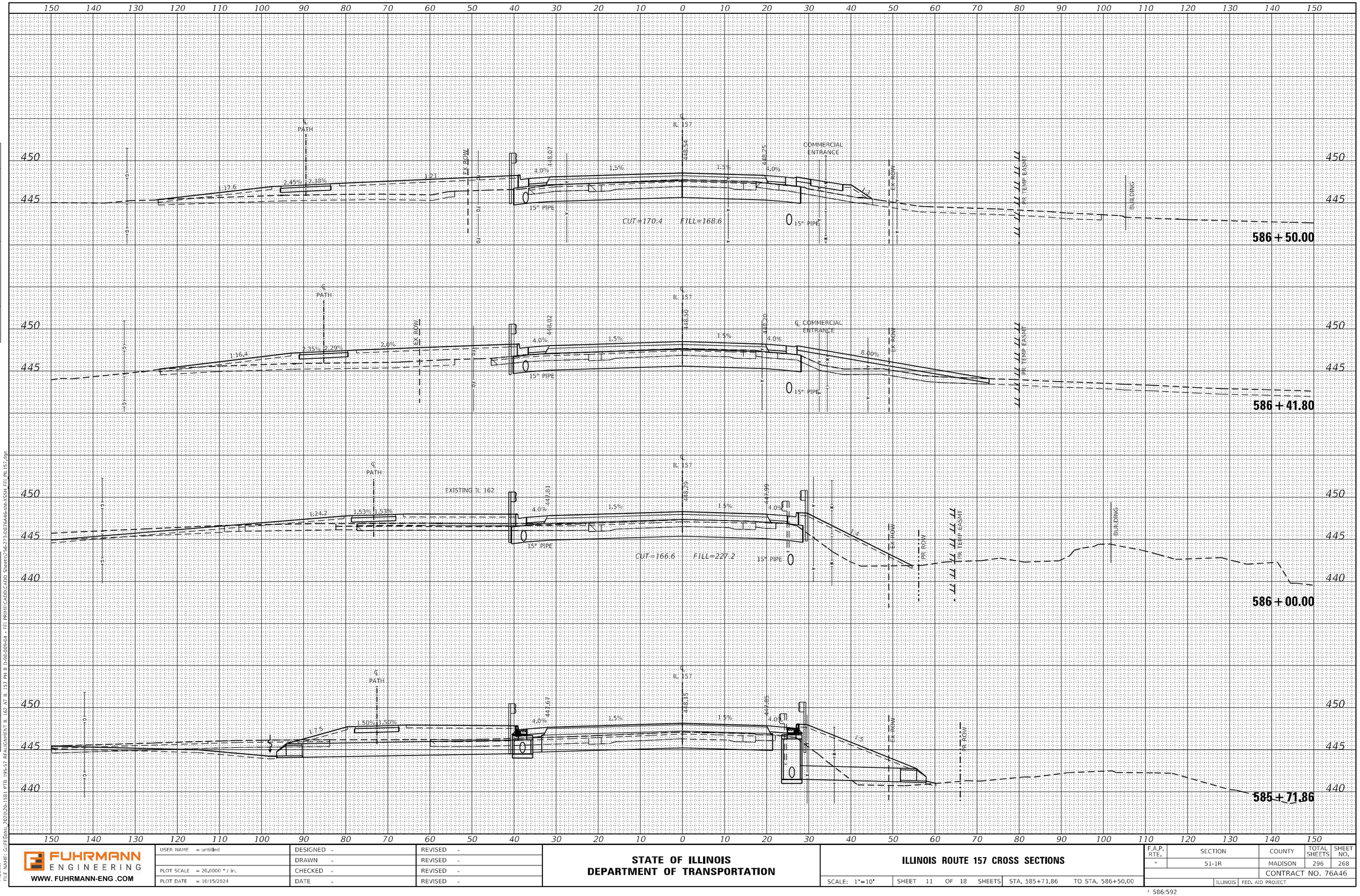
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	267
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 11 OF 18 SHEETS | STA. 585+71.86 | TO STA. 586+50.00

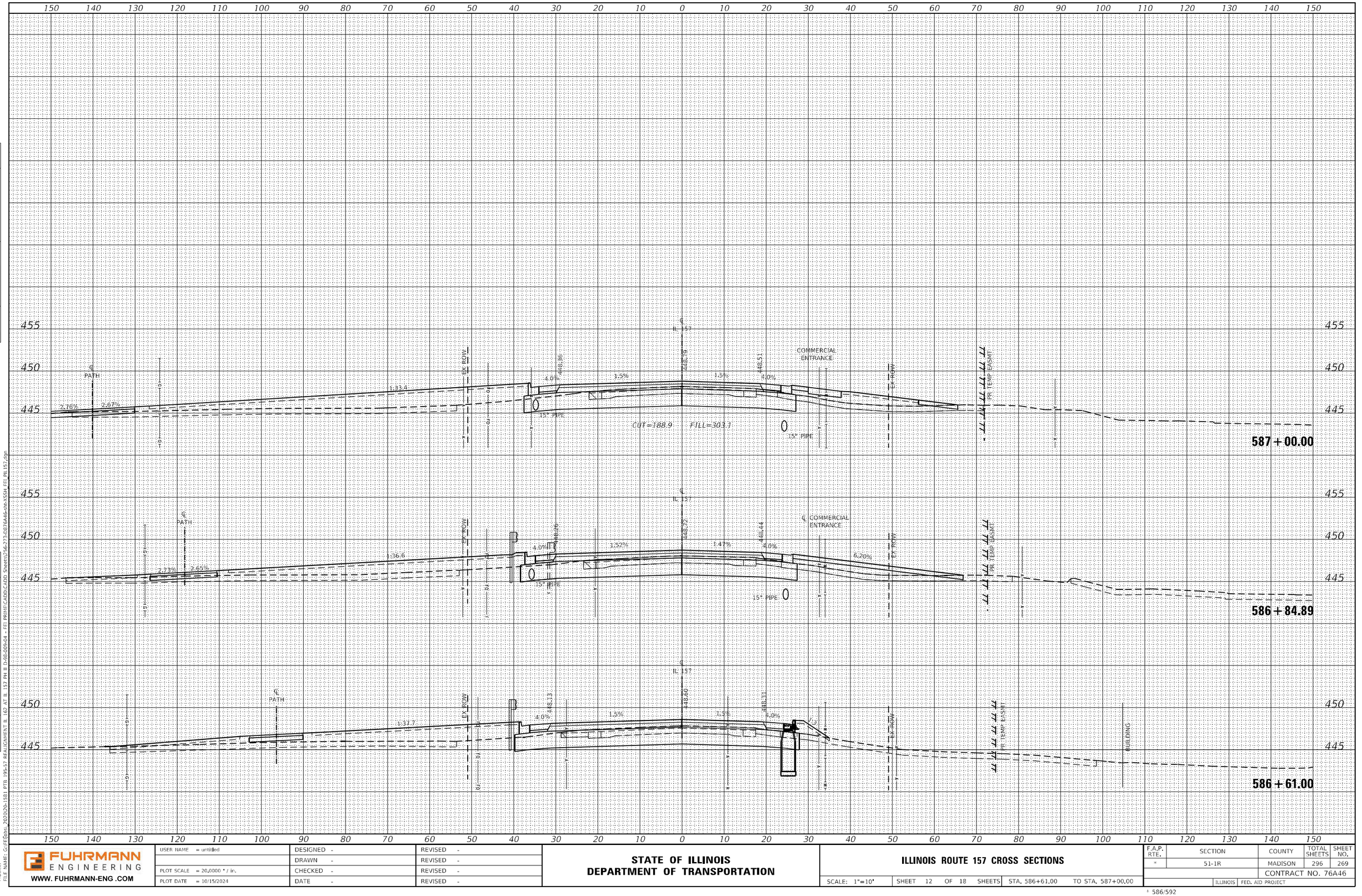
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	268
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2024	DATE -	REVISED -

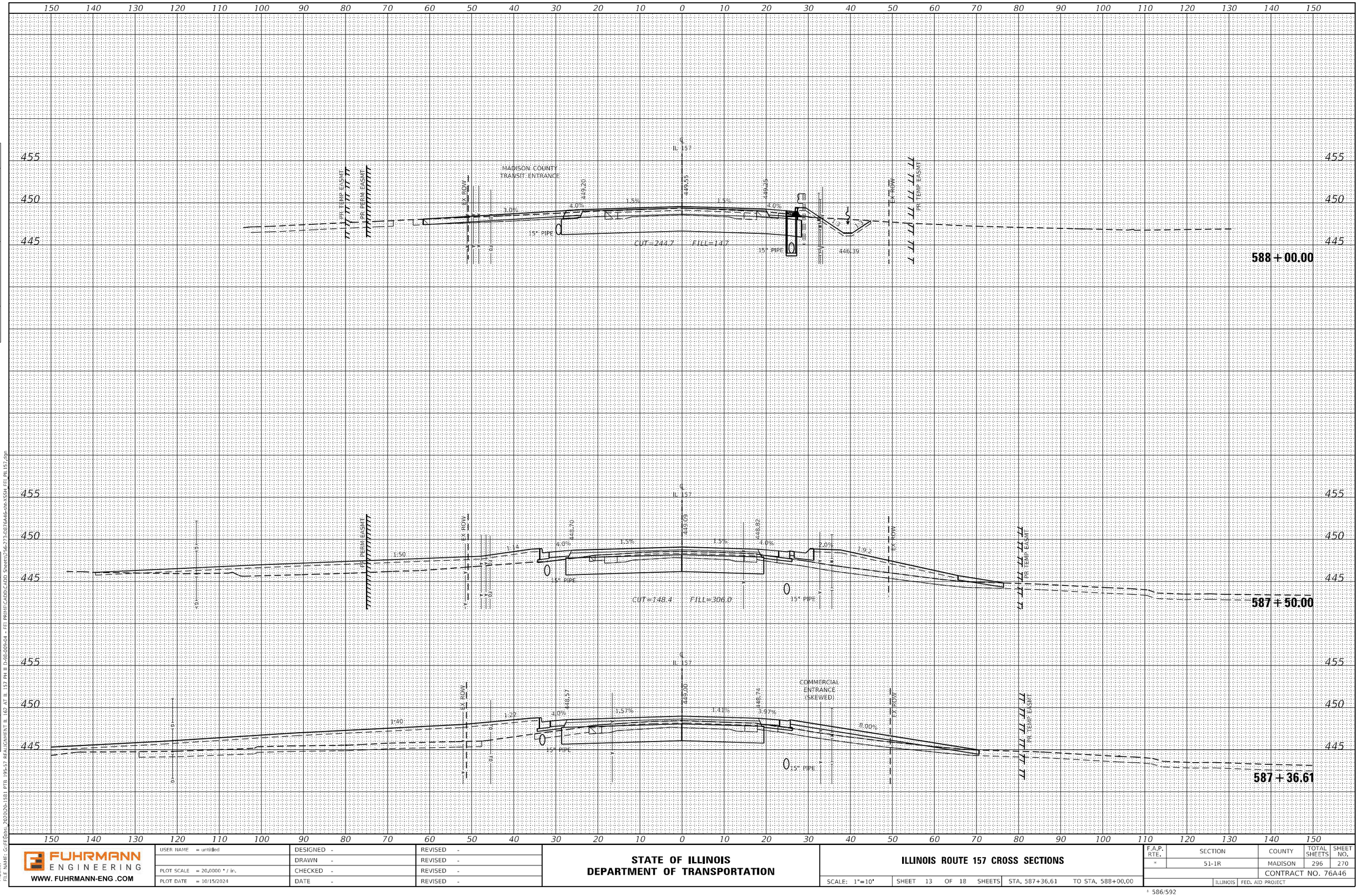
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 12 OF 18 SHEETS | STA. 586+61.00 | TO STA. 587+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	269
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 13 OF 18 SHEETS | STA. 587+36.61 | TO STA. 588+00.00

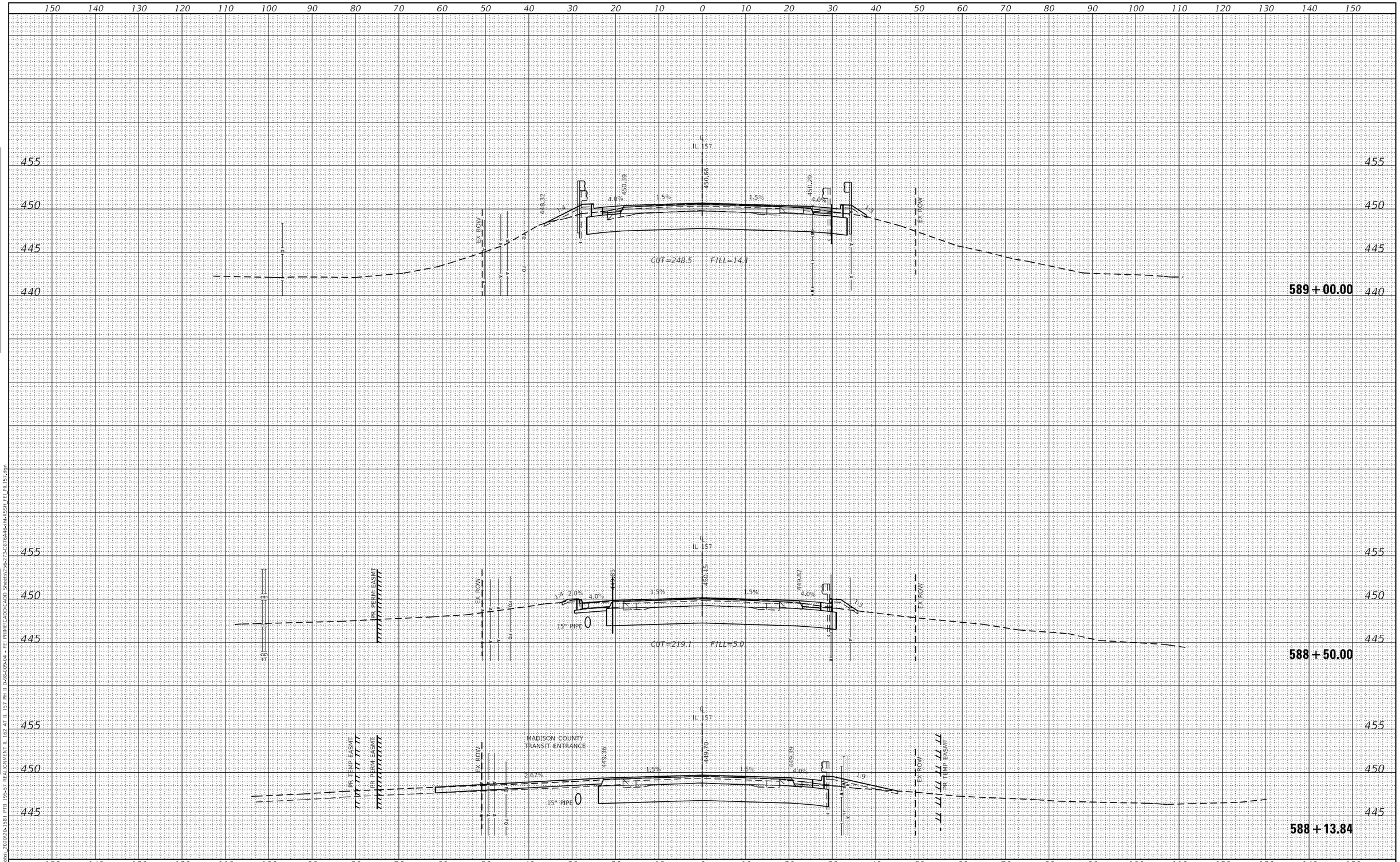
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	270
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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

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

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USER NAME = untitled	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2024	DATE -	REVISED -

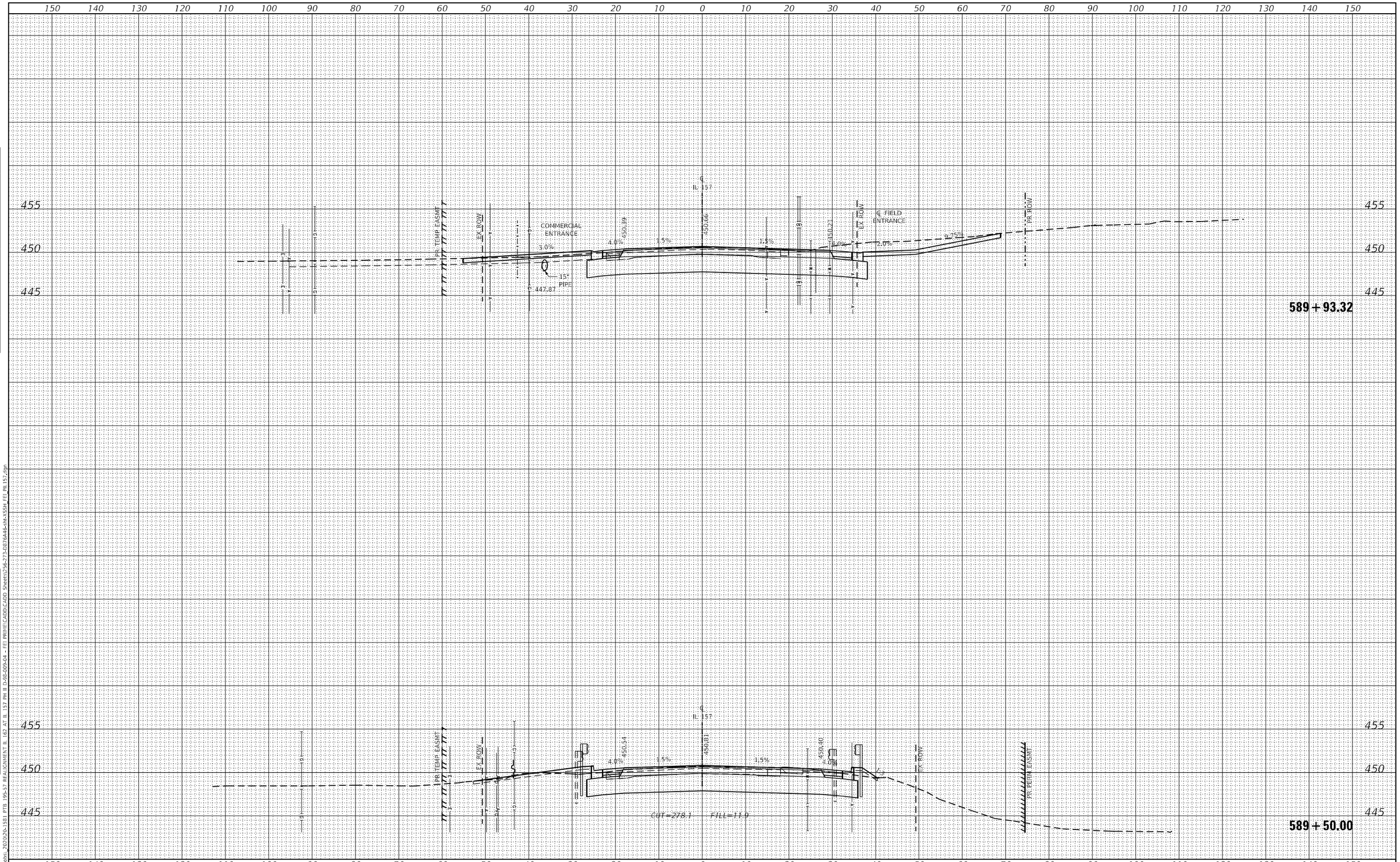
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 14 OF 18 SHEETS | STA. 588+13.84 | TO STA. 589+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	271
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 15 OF 18 SHEETS | STA. 589+50.00 | TO STA. 589+93.32

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	272
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

MODEL:
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

455
450
445

PR TEMP EASMT
EX ROW
EX ROW
PR ROW
IL 157
℄
450.44
450.37
449.99
0.74%
4.0%
1.5%
1.5%
4.0%
7.0%
15" PIPE
448.15
CUT=319.9
FILL=3.2

590 + 50.00

BUILDING
PR TEMP EASMT
EX ROW
COMMERCIAL ENTRANCE
3.0%
4.0%
450.36
1.5%
450.63
1.5%
4.0%
450.18
EX ROW
FIELD ENTRANCE
2.0%
10.0%
PR ROW
15" PIPE
447.91
CUT=378.5
FILL=24.1

590 + 00.00

PR TEMP EASMT
EX ROW
COMMERCIAL ENTRANCE (SKEWED)
3.0%
4.0%
450.37
2.45%
450.63
1.53%
4.97%
450.23
EX ROW
3.15
PR ROW
15" PIPE
447.89

589 + 99.67

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
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AREAS CHECKED
BY
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MODEL:
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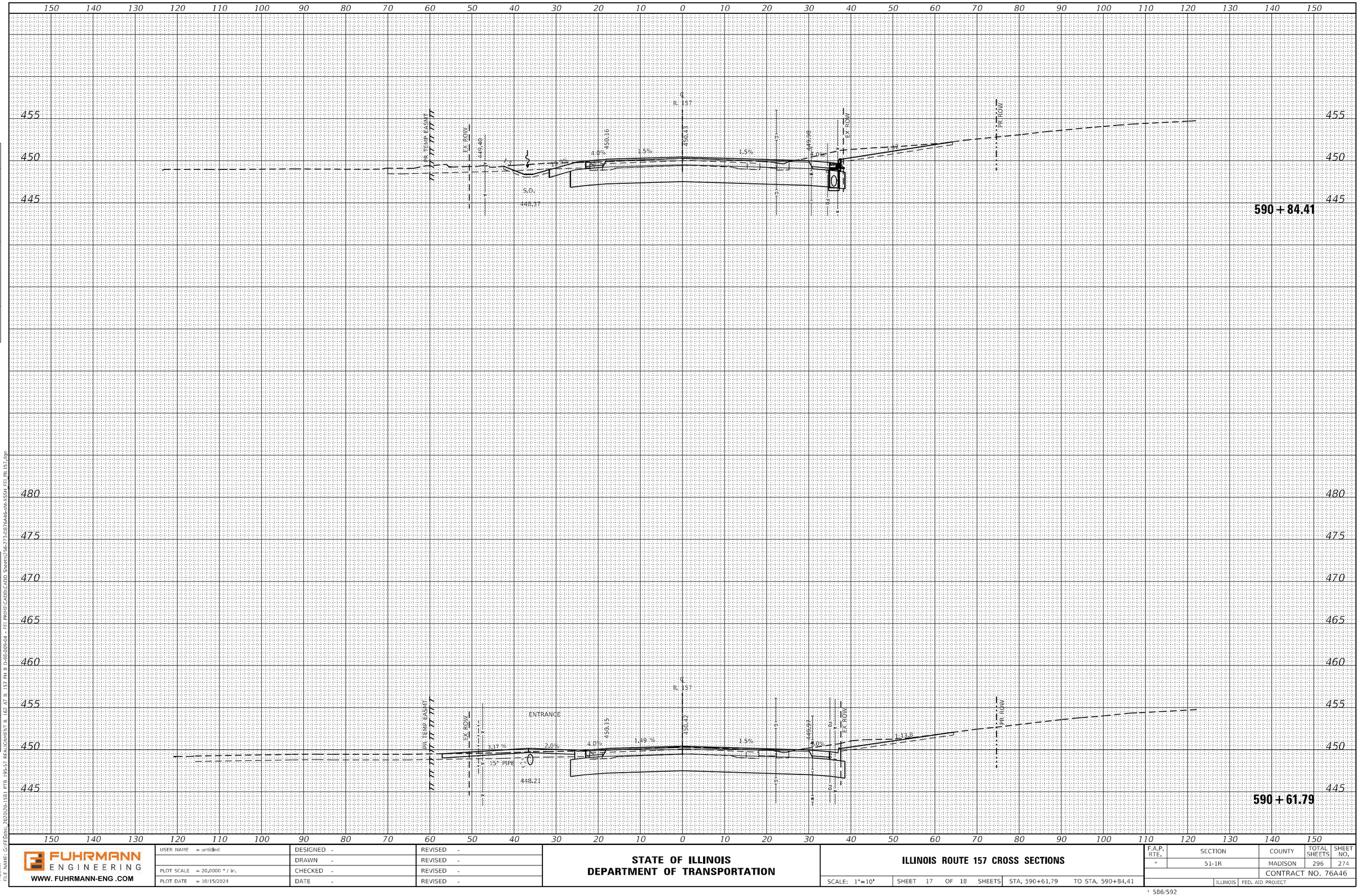
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 16 OF 18 SHEETS | STA. 589+99.67 | TO STA. 590+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	273
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 17 OF 18 SHEETS | STA. 590+61.79 | TO STA. 590+84.41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	274
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

MODEL:
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

455 450 445

592 + 80.47

C
IL 157

EX ROW

PR ROW

592 + 50.00

451.24 451.79 451.41

2.5% -1.04 % 4.0%

CUT=406.5 FILL=27.7

592 + 00.00

451.09 451.30 450.85

4.0% 1.5% 1.5% 4.0%

CUT=370.4 FILL=8.5

PR TEMP EASMT

S.D. 449.09

450.54 450.78 450.33

CUT=356.6 FILL=6.7

591 + 50.00

S.D. 448.54 449.87 450.47 450.02

CUT=357.9 FILL=5.7

591 + 00.00

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

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

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -
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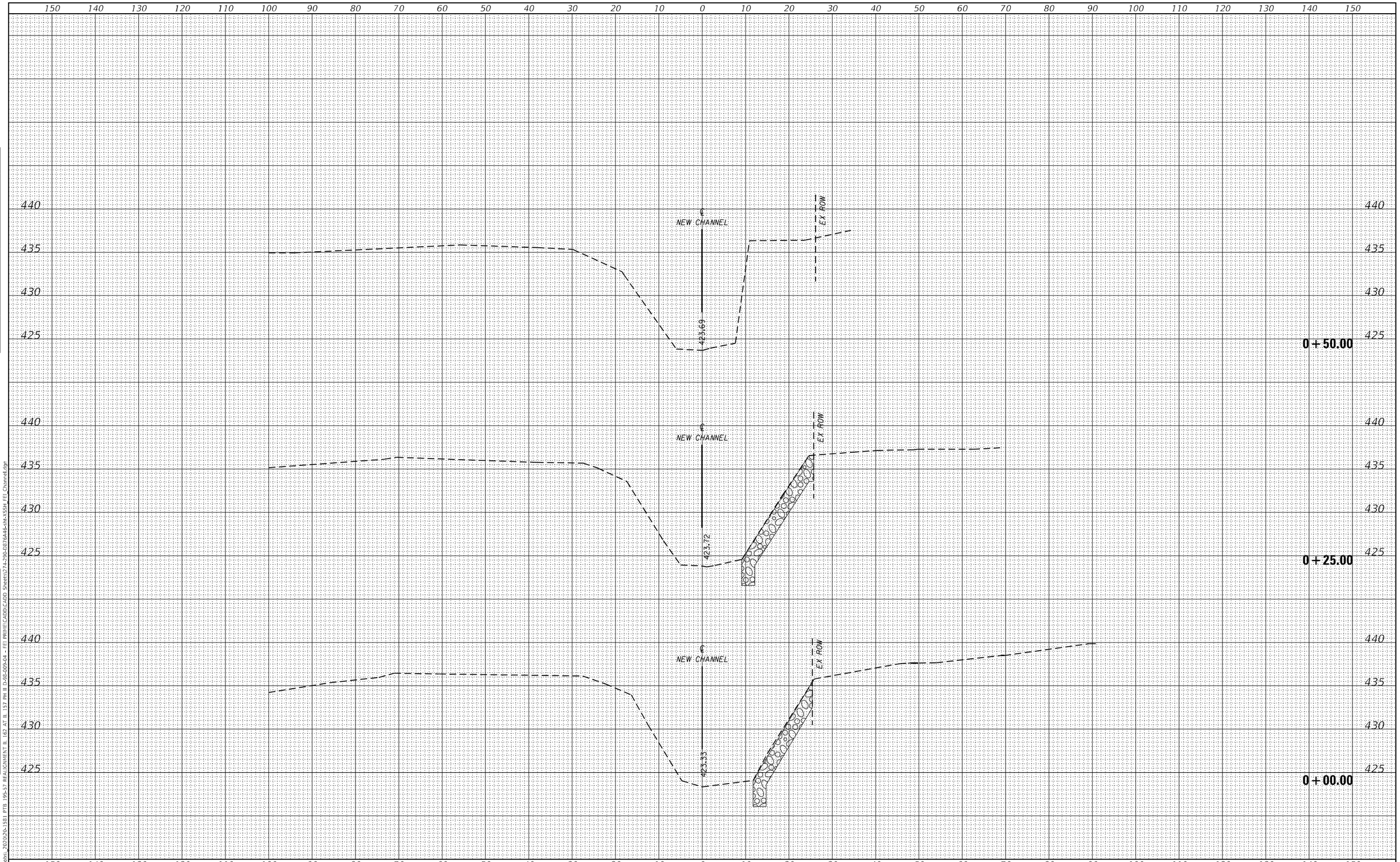
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 157 CROSS SECTIONS

SCALE: 1"=10' | SHEET 18 OF 18 SHEETS | STA. 591+00.00 TO STA. 592+80.47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	275
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

* 586/592



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

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

MODEL:
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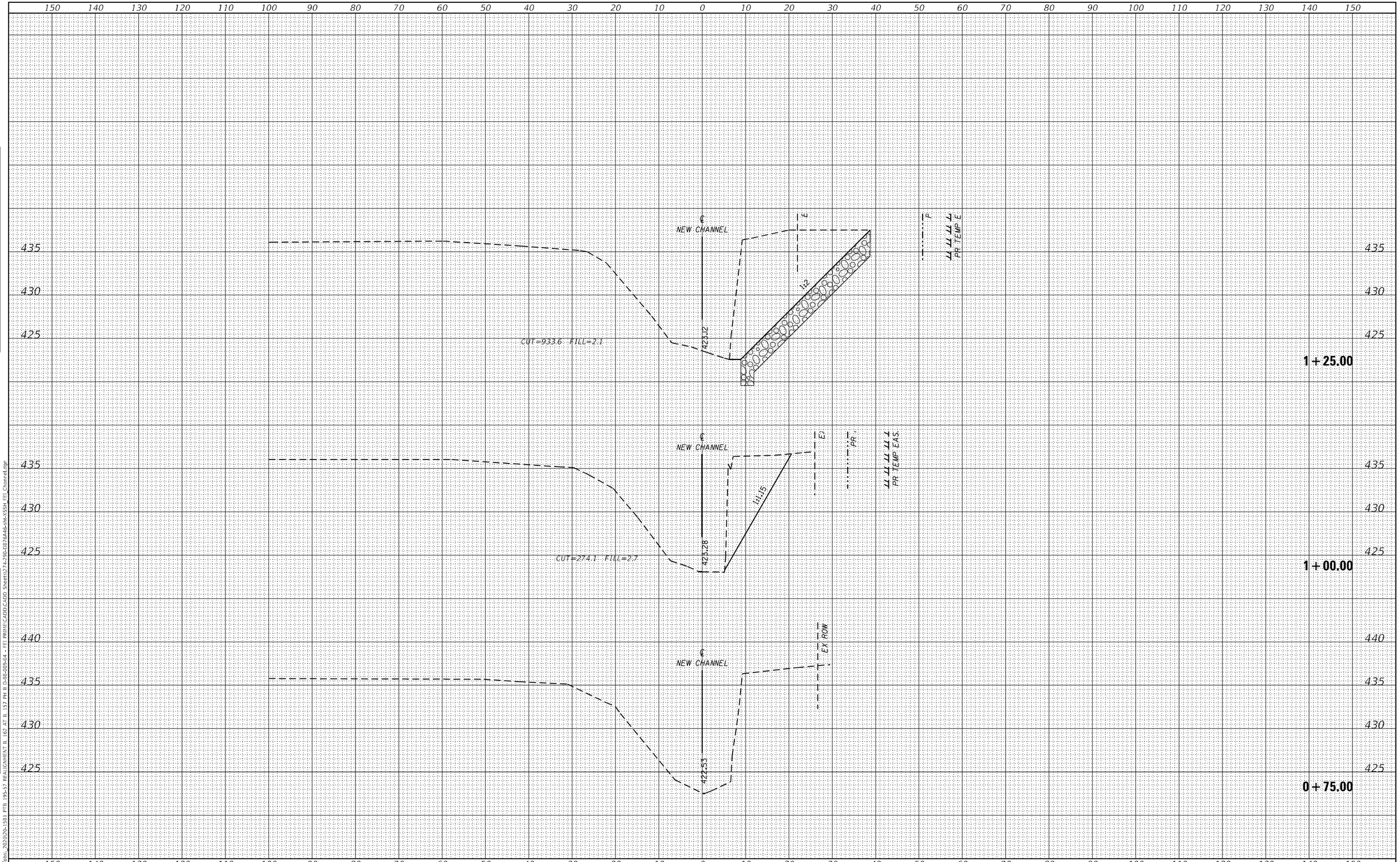
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 1 OF 17 SHEETS | STA. +00.00 | TO STA. +50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	276
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



ORIGINAL SURVEY	NOTE BOOK	NO.
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FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
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AREAS CHECKED		

BY	DATE

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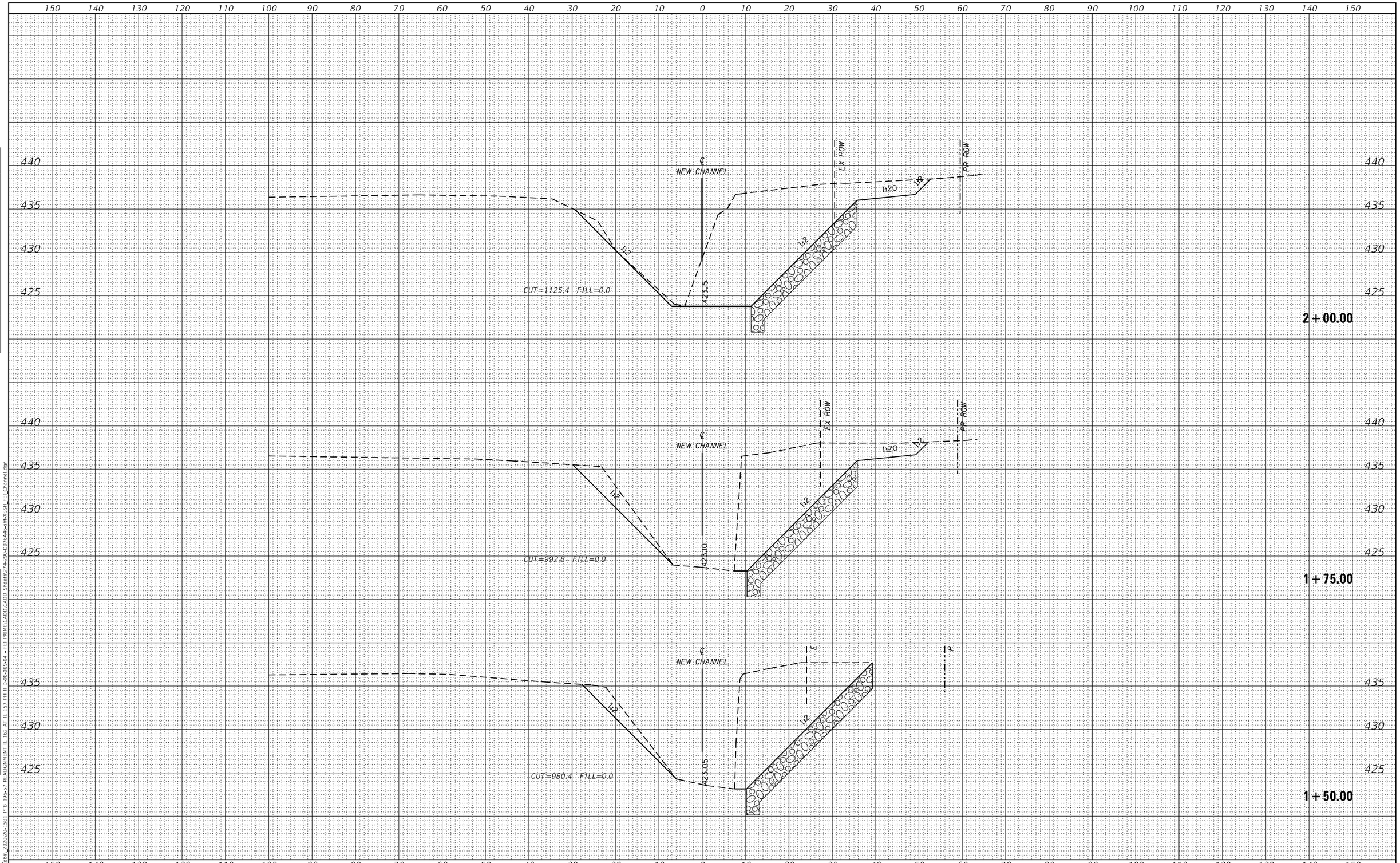
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 2 OF 17 SHEETS | STA. +75.00 | TO STA. 1+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	277
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	NOTE BOOK	NO.
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ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
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TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

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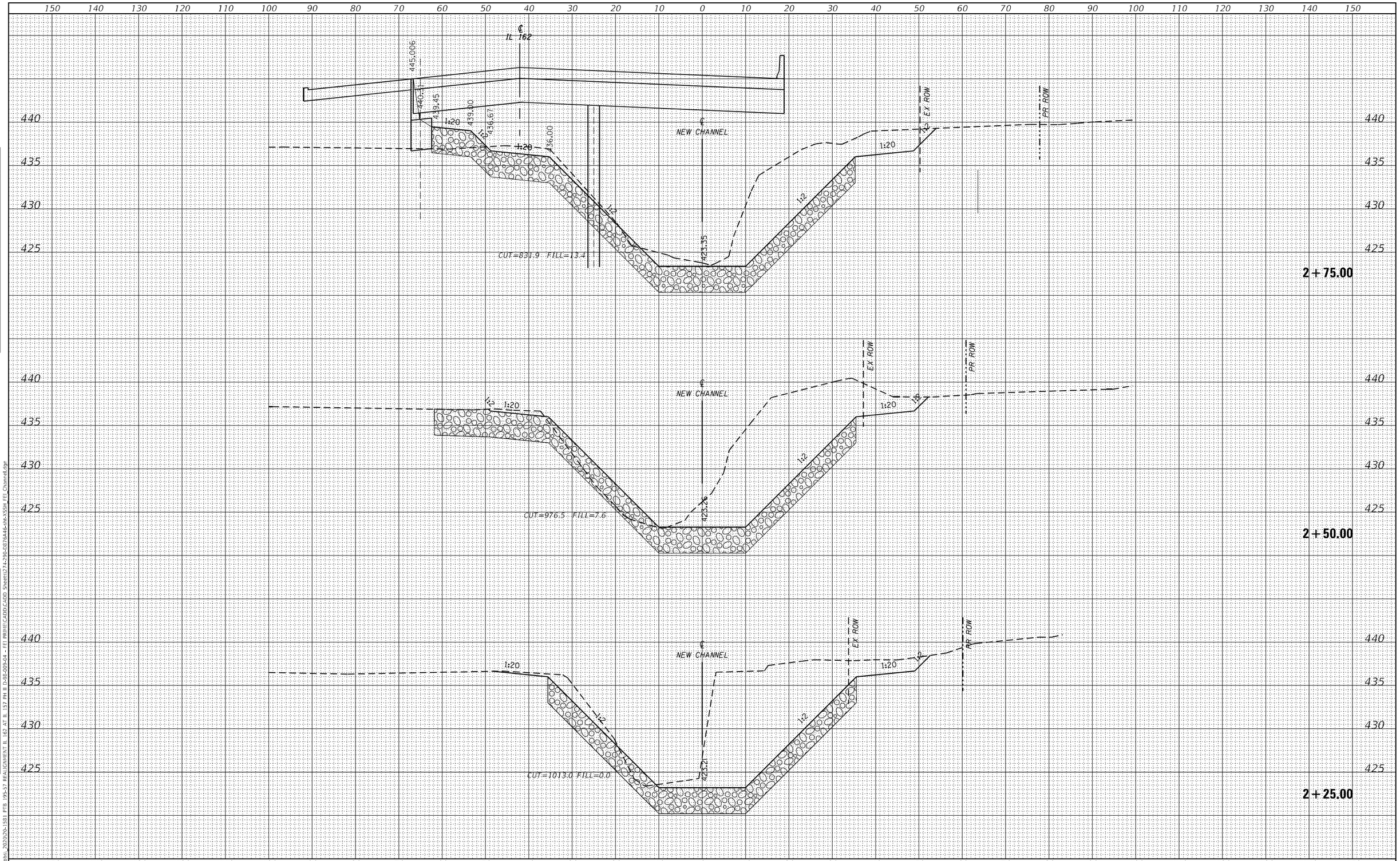
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 3 OF 17 SHEETS | STA. 1+50.00 | TO STA. 2+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	278
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY
NOTE BOOK
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ORIGINAL SURVEY
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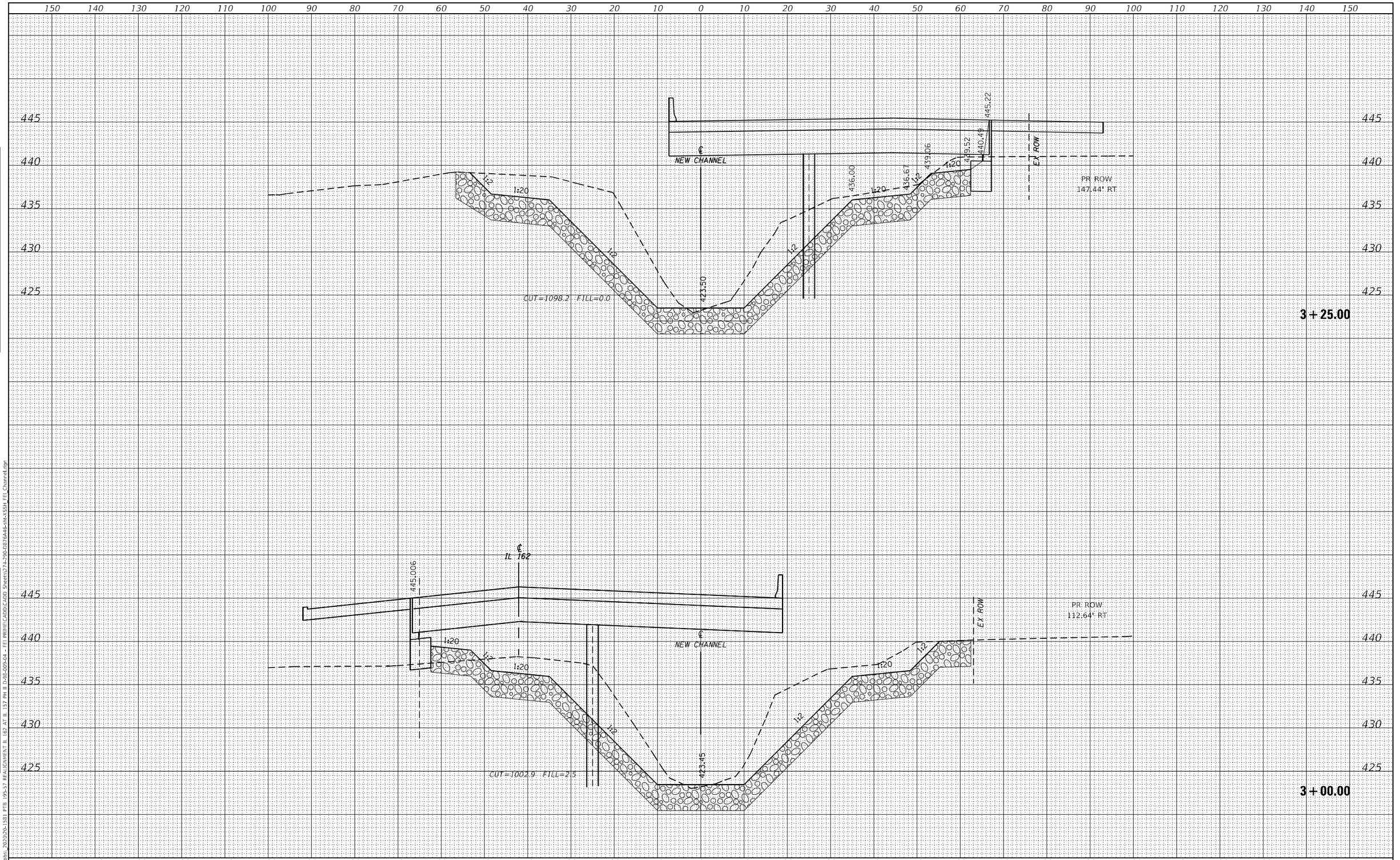
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 4 OF 17 SHEETS | STA. 2+25.00 | TO STA. 2+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	279
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
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AREAS		
AREAS CHECKED		

BY DATE

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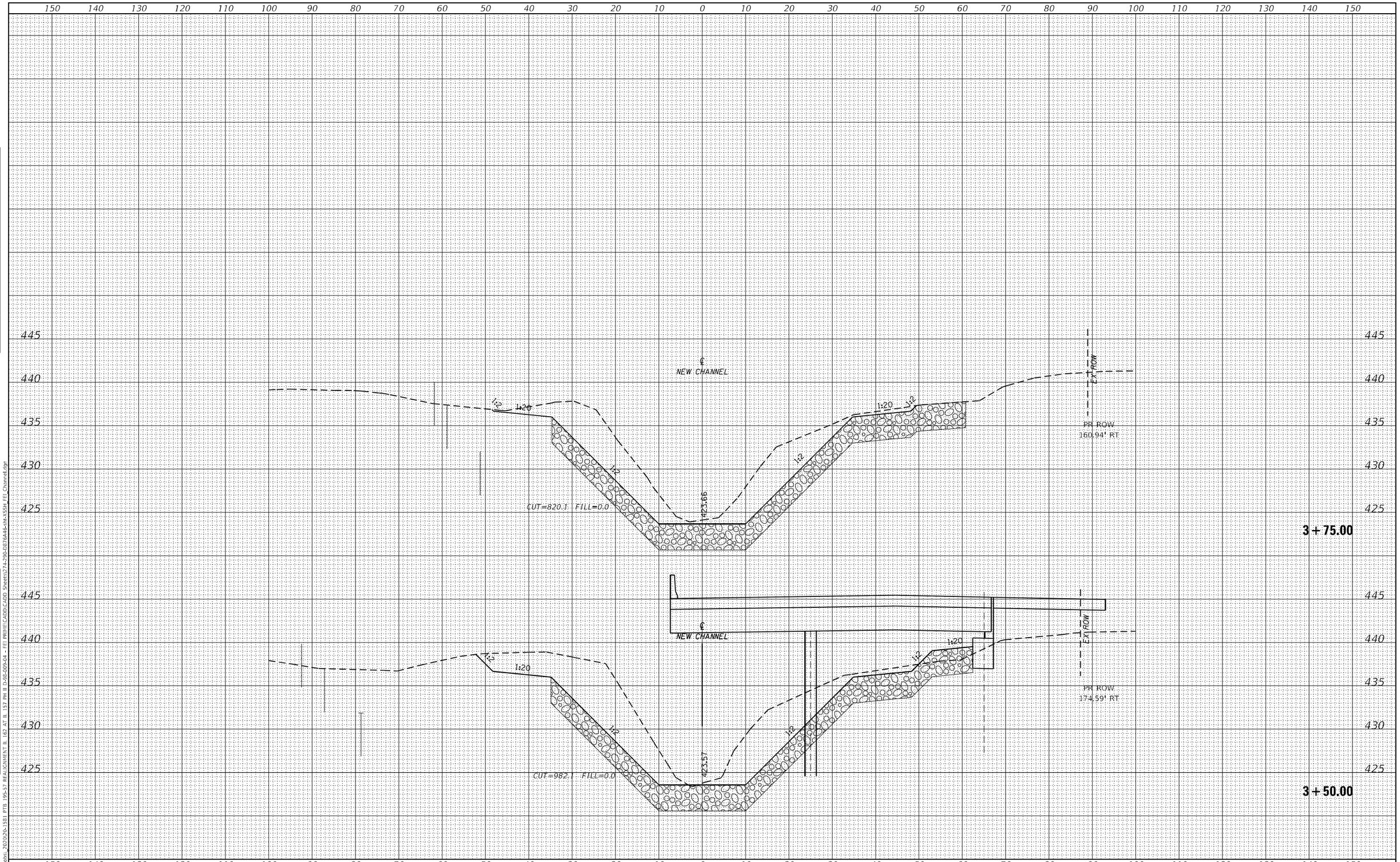
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	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 5 OF 17 SHEETS | STA. 3+00.00 | TO STA. 3+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	280
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

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

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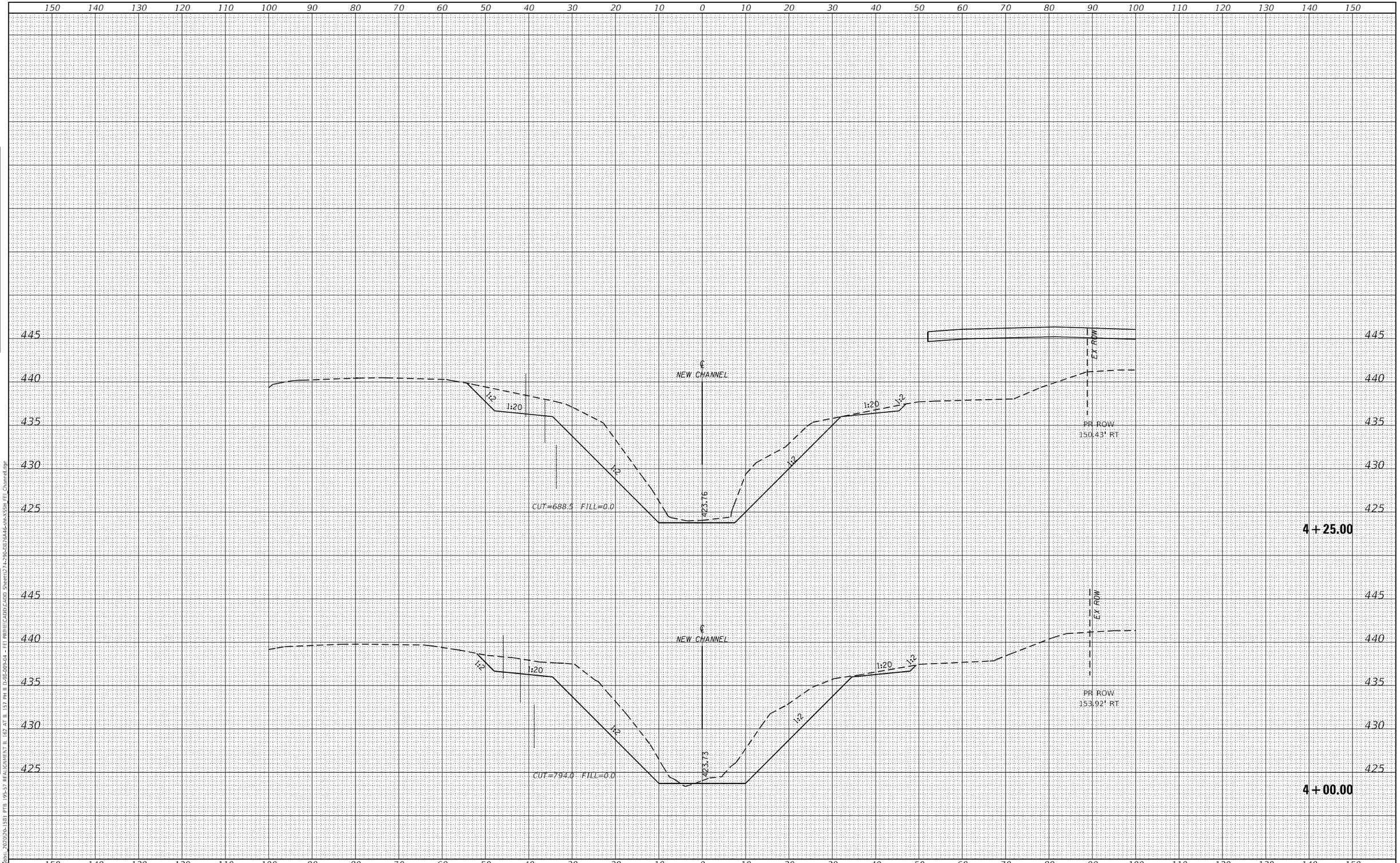
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 6 OF 17 SHEETS | STA. 3+50.00 | TO STA. 3+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	281
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			

586/592



FINAL SURVEY
NOTE BOOK
NO.
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ORIGINAL SURVEY
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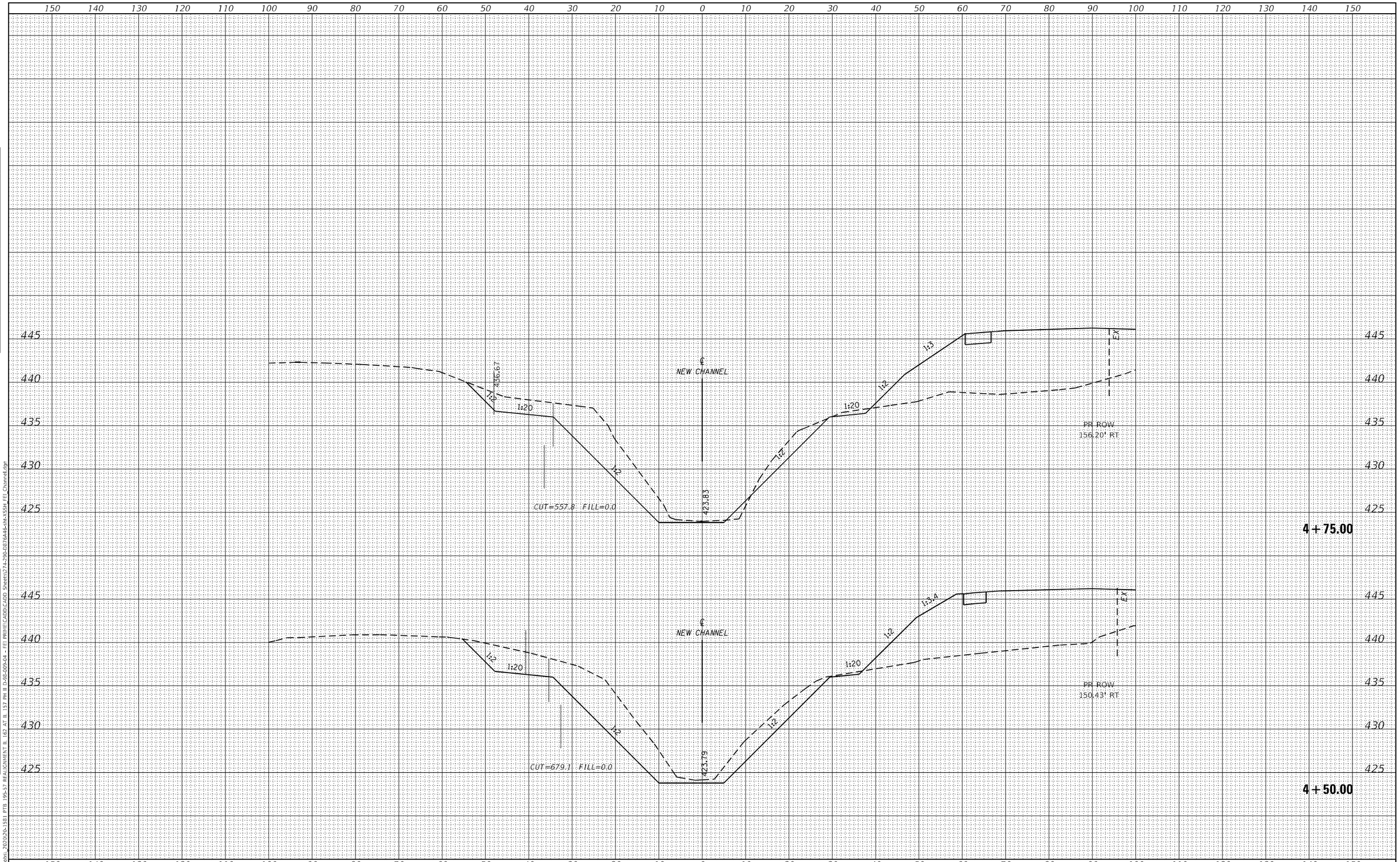
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 7 OF 17 SHEETS | STA. 4+00.00 TO STA. 4+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	282
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

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

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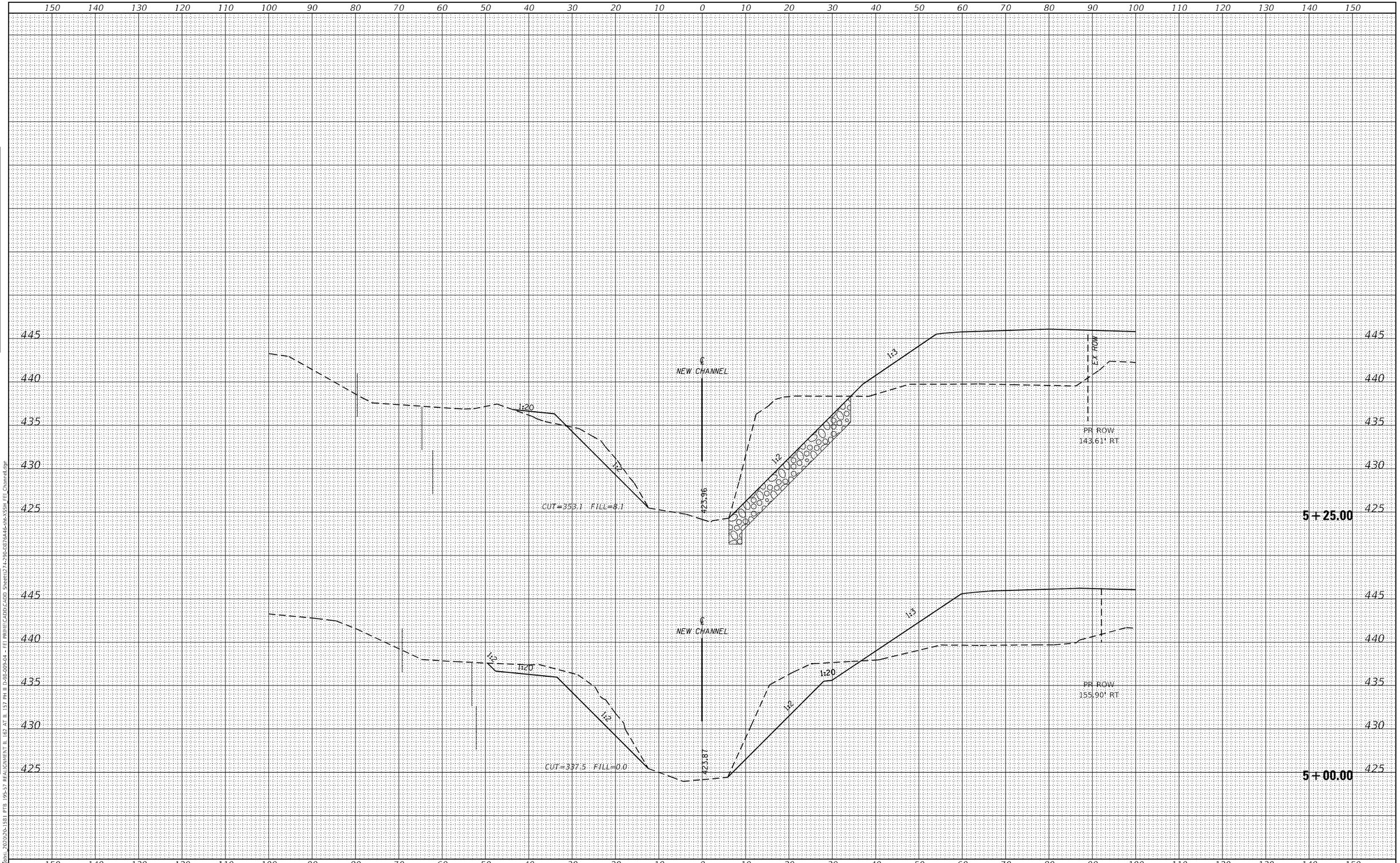
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 8 OF 17 SHEETS | STA. 4+50.00 | TO STA. 4+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	283
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	



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

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

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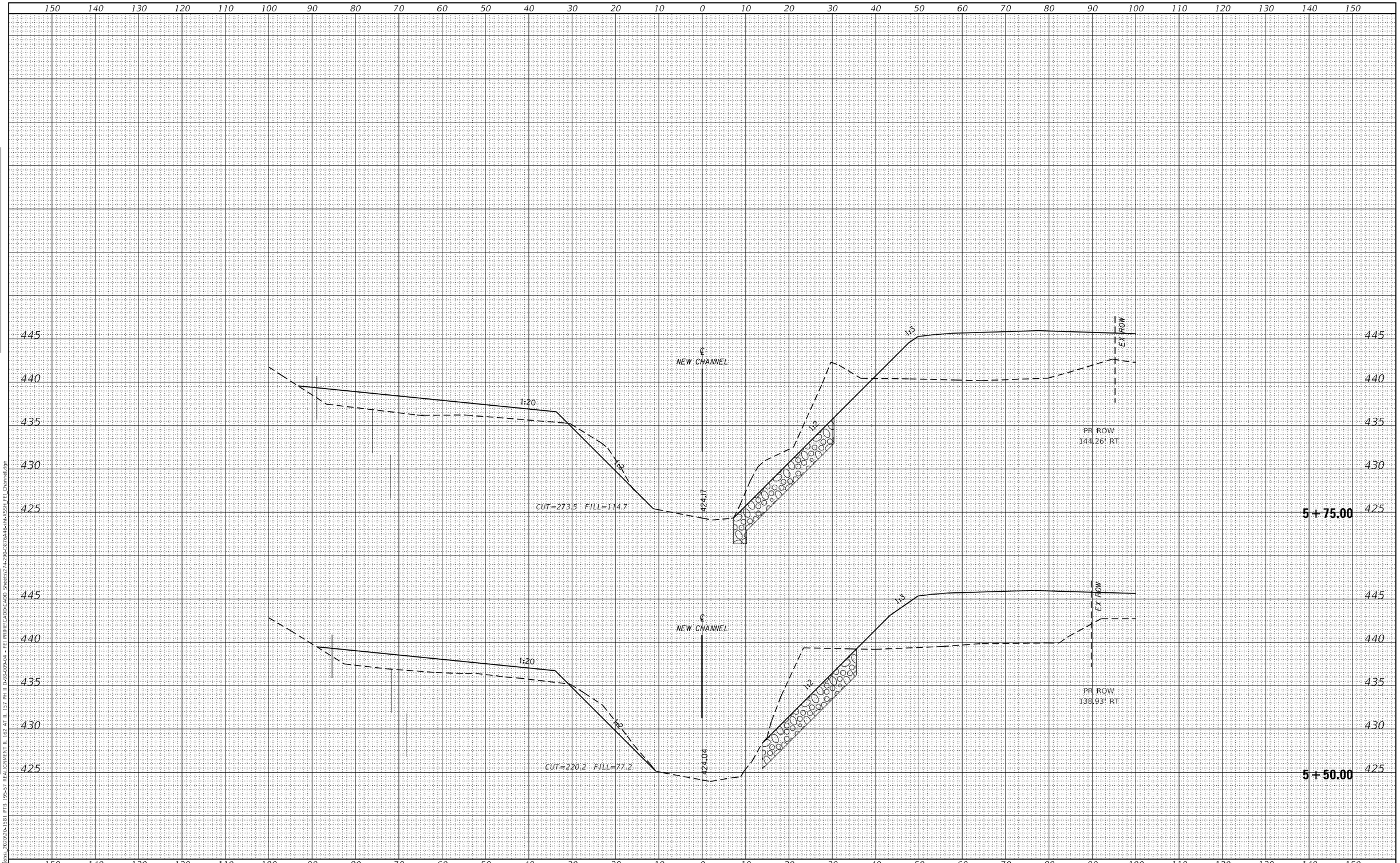
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 9 OF 17 SHEETS | STA. 5+00.00 TO STA. 5+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	284
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL:
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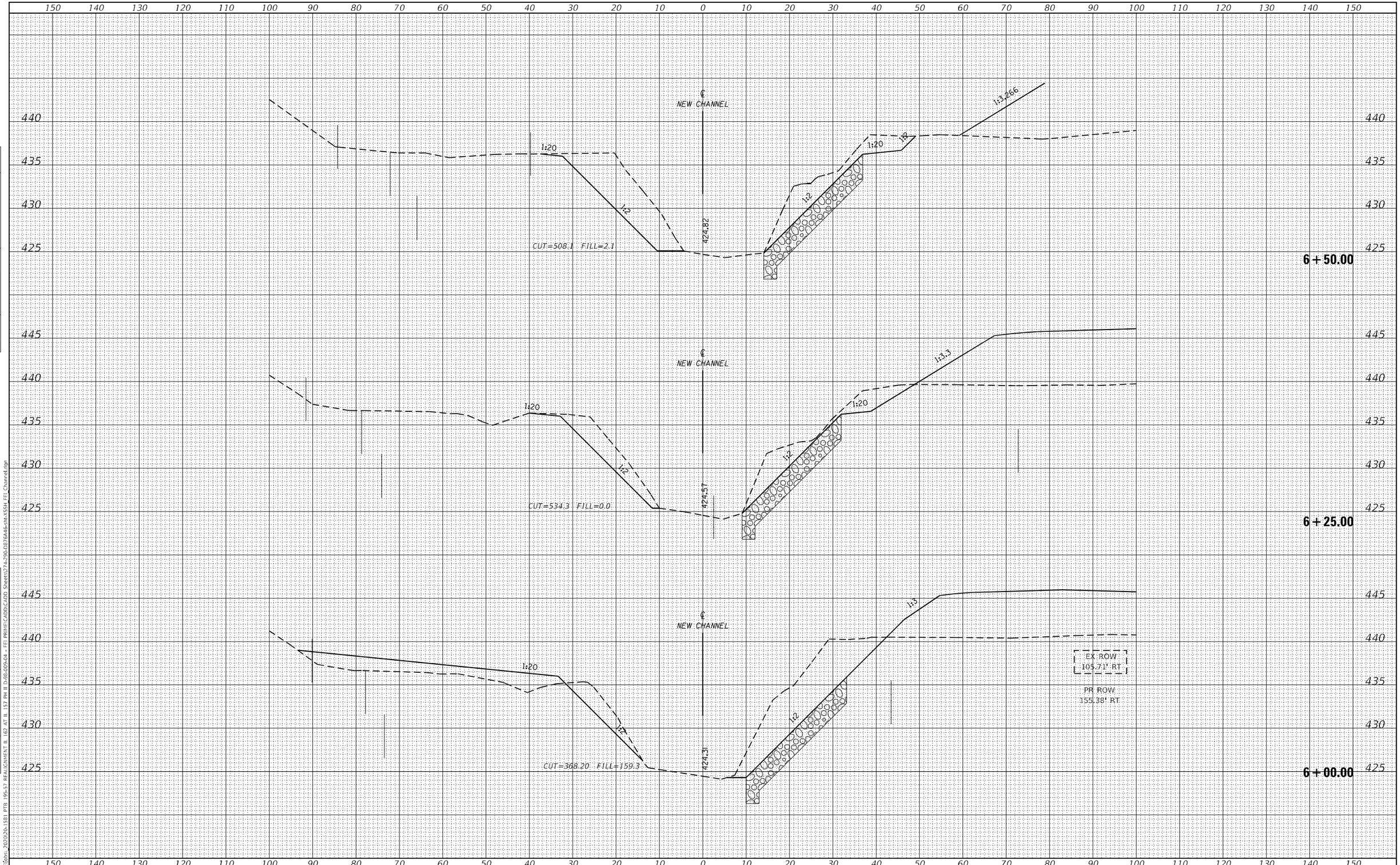
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 10 OF 17 SHEETS | STA. 5+50.00 | TO STA. 5+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	285
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		



FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM	USER NAME = untitled	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

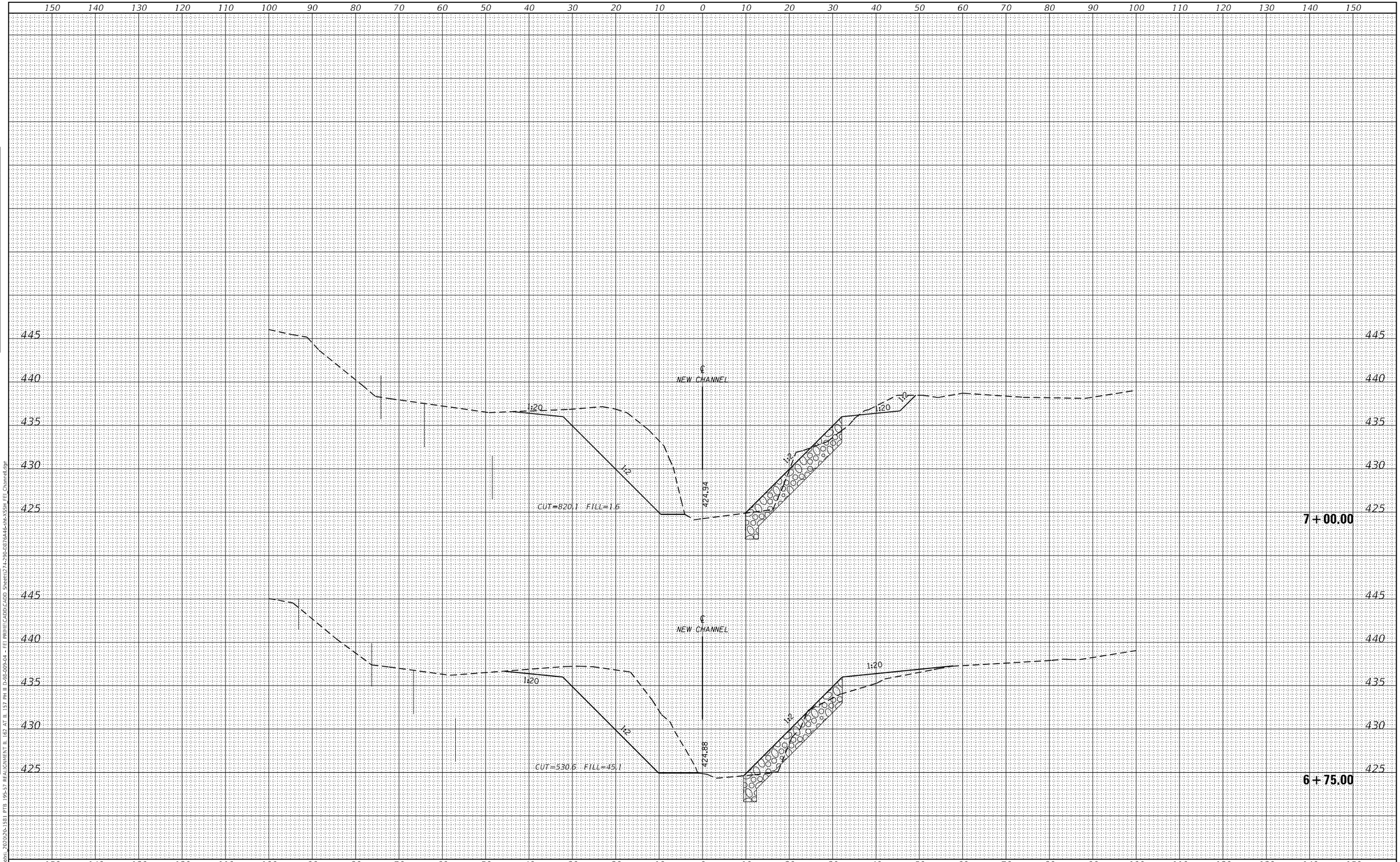
SCALE: 1"=10' | SHEET 11 OF 17 SHEETS | STA. 6+00.00 | TO STA. 6+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	51-1R	MADISON	296	286
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

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

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

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

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

MODEL:
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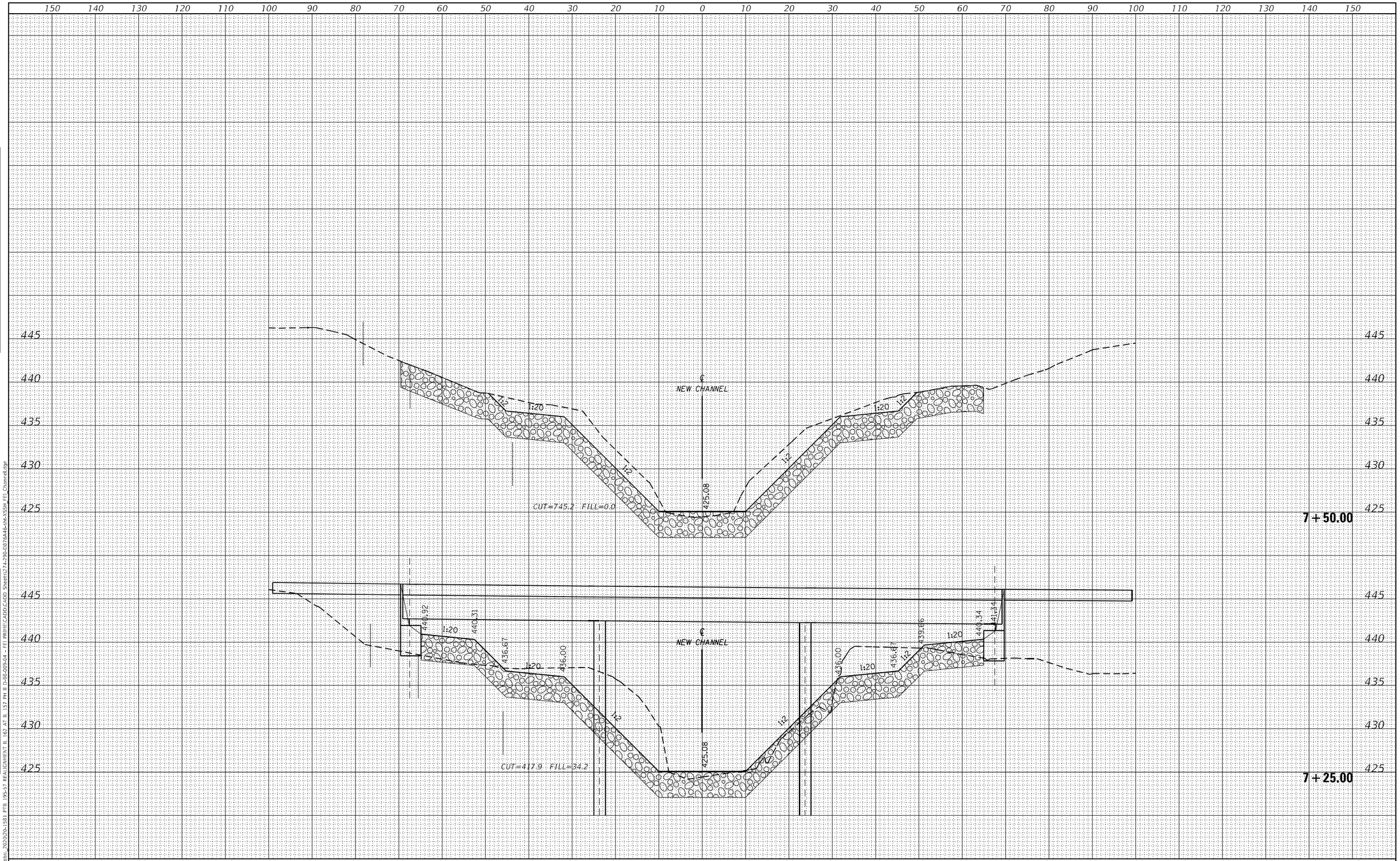
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 12 OF 17 SHEETS | STA. 6+75.00 | TO STA. 7+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	287
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

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

MODEL:
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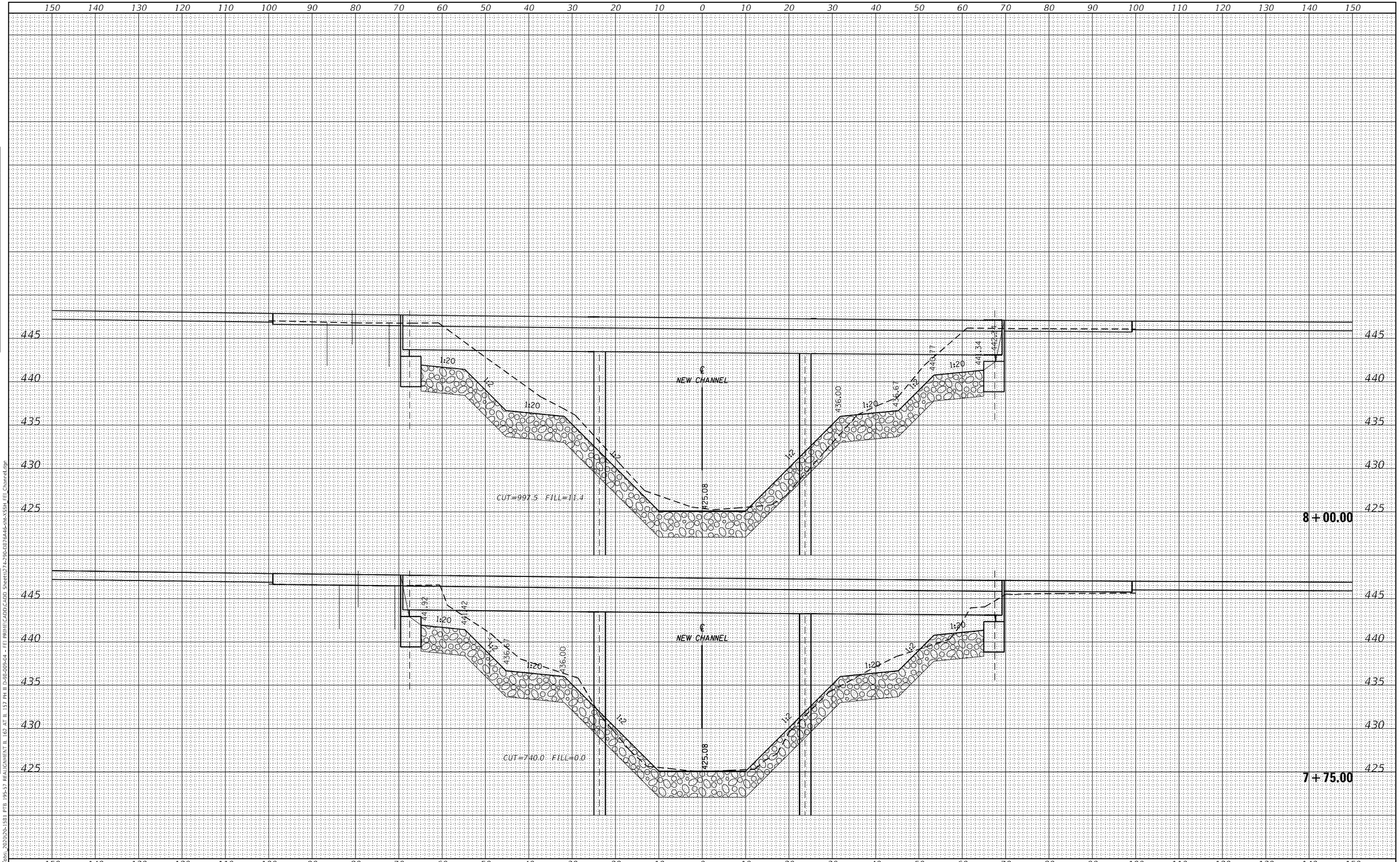
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 13 OF 17 SHEETS | STA. 7+25.00 | TO STA. 7+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	288
		CONTRACT NO. 76A46		
	ILLINOIS FED. AID PROJECT			



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 14 OF 17 SHEETS | STA. 7+75.00 | TO STA. 8+00.00

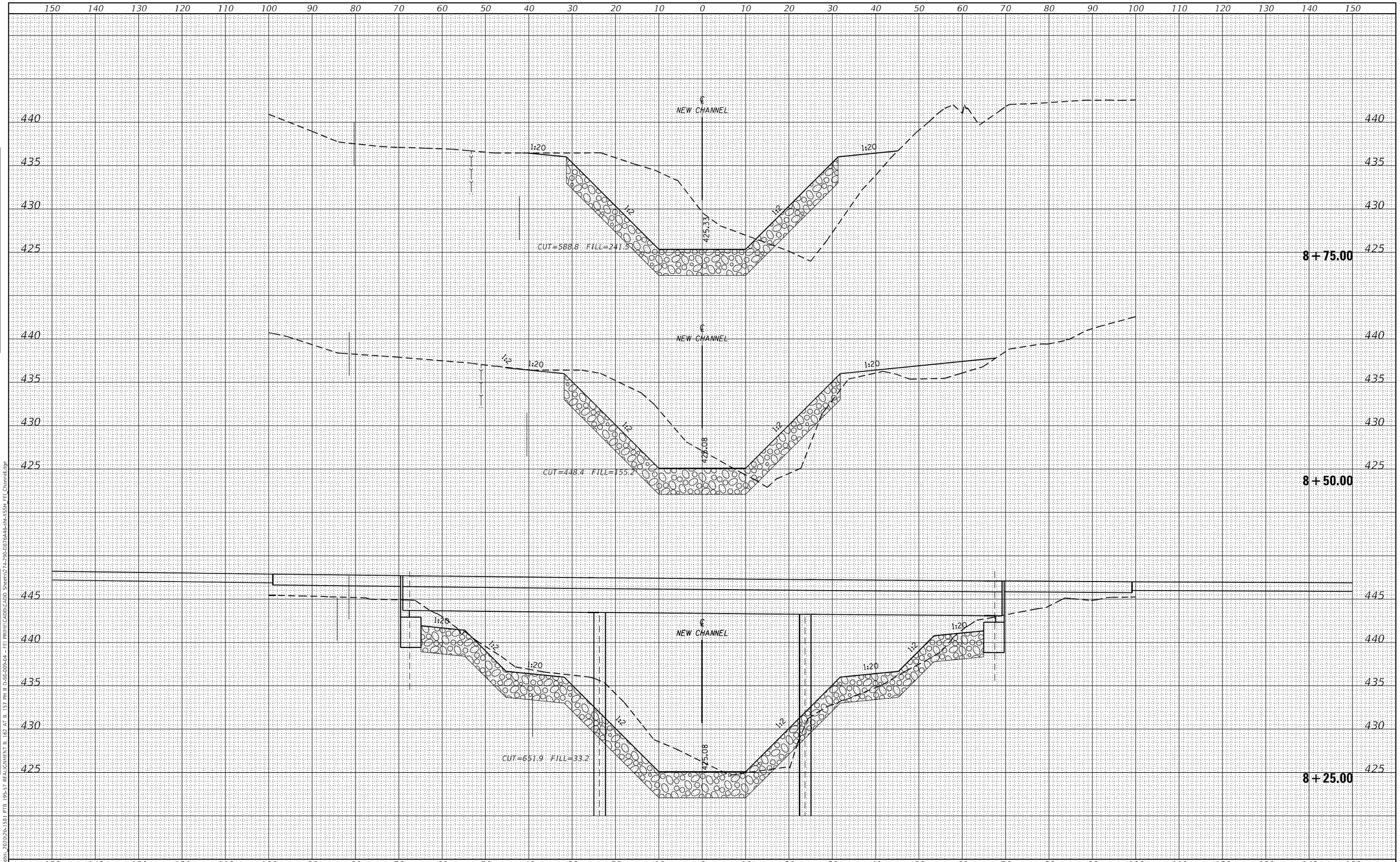
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	289
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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

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

BY	DATE

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -
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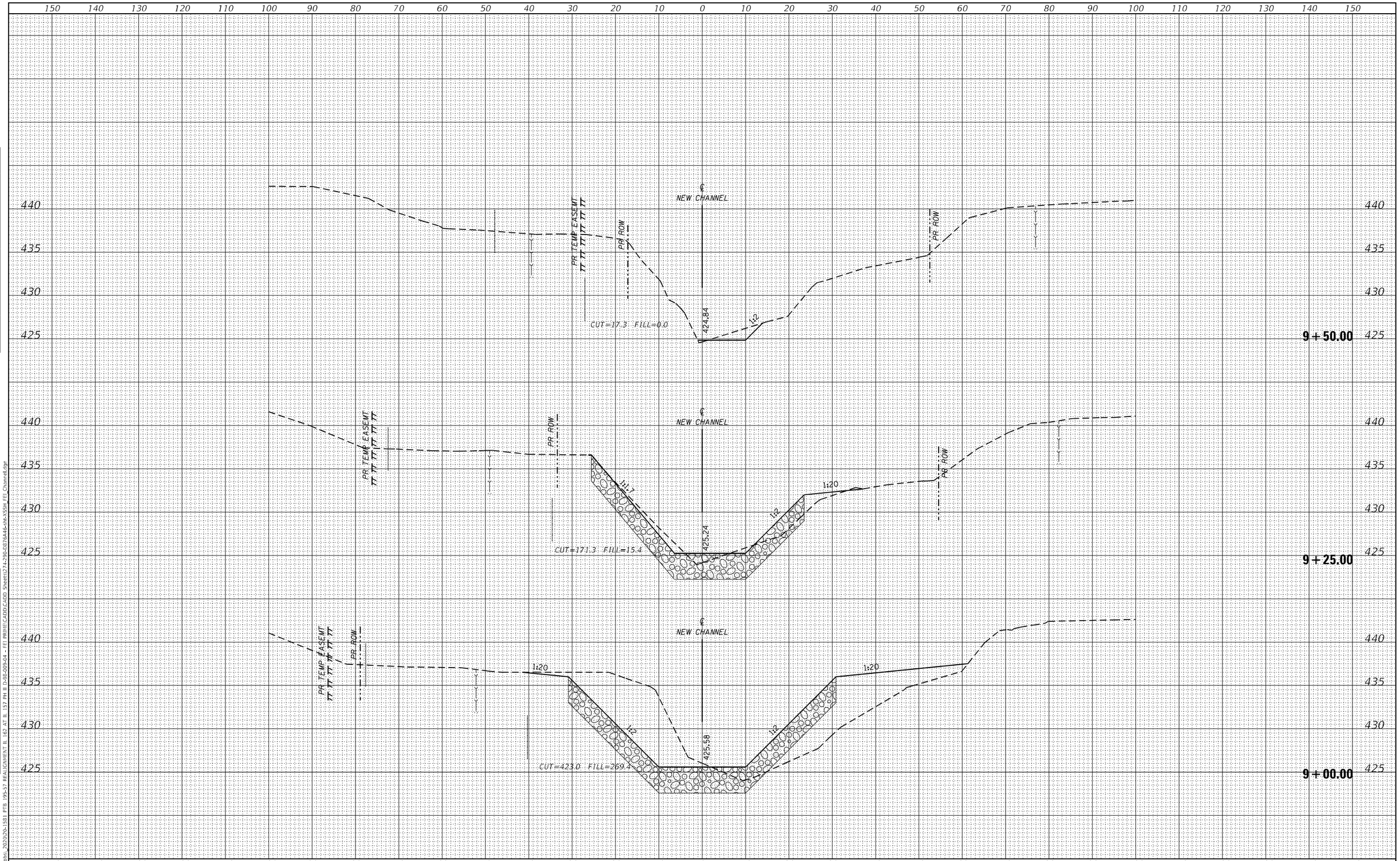
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 15 OF 17 SHEETS | STA. 8+25.00 TO STA. 8+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	290
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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

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

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USER NAME = untitled	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 16 OF 17 SHEETS | STA. 9+00.00 | TO STA. 9+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	291
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

440 435 430 425

℄ NEW CHANNEL

424.65

10 + 23.71

440 435 430 425

℄ NEW CHANNEL

424.60

10 + 00.00

440 435 430 425

℄ NEW CHANNEL

PR ROW

PR ROW

424.17

9 + 75.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

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PLOT DATE = 10/15/2024	DATE -	REVISED -

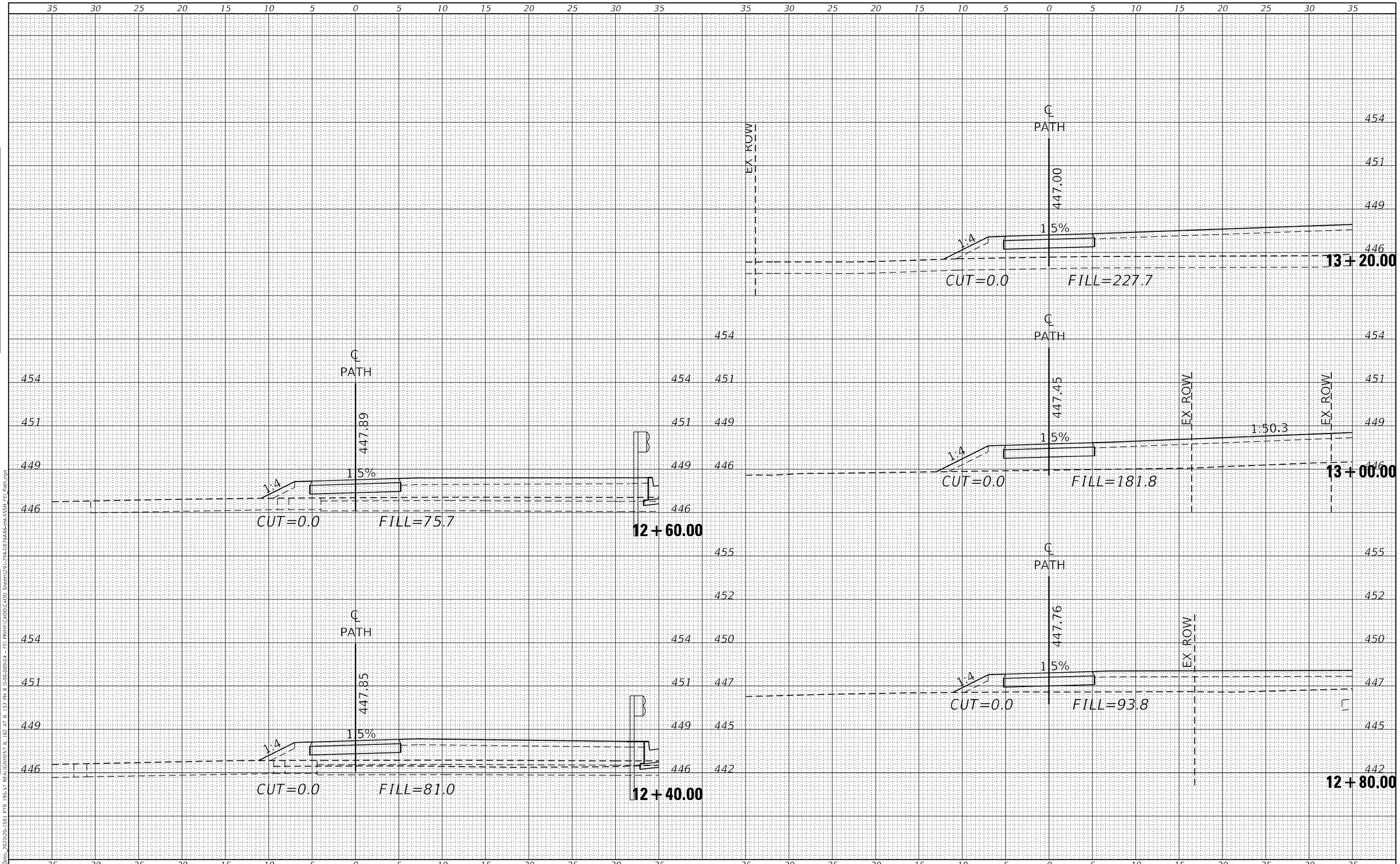
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=10' | SHEET 17 OF 17 SHEETS | STA. 9+75.00 | TO STA. 10+23.71

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	292
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



USER NAME = untitled	DESIGNED -	REVISED -	
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PLOT DATE = 10/15/2024	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PATH CROSS SECTION

SCALE: 1"=5' | SHEET 1 OF 4 SHEETS | STA. 12+40.00 TO STA. 13+20.00

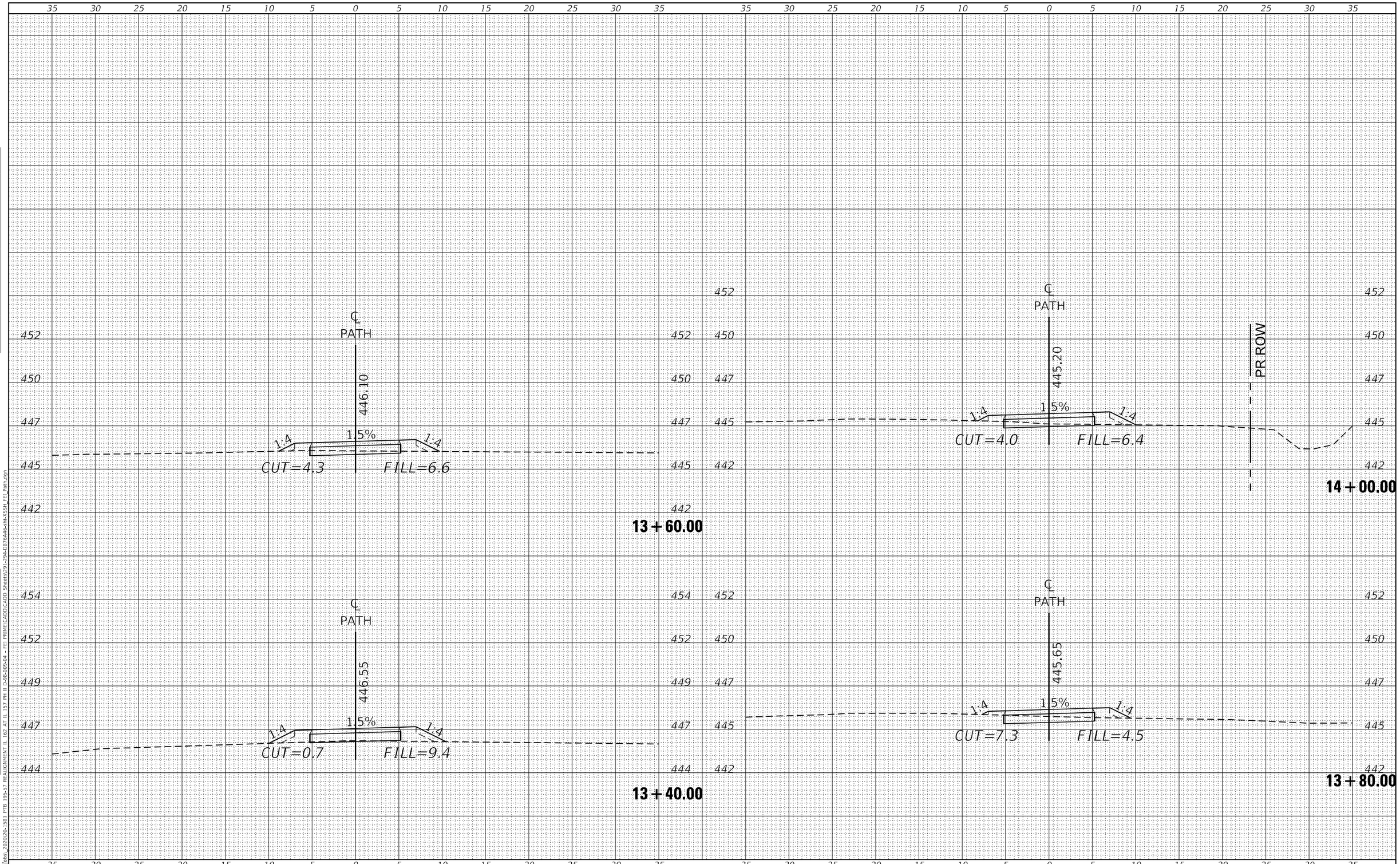
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	293
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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

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

MODEL:
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USER NAME = untitled	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2024	DATE -	REVISED -

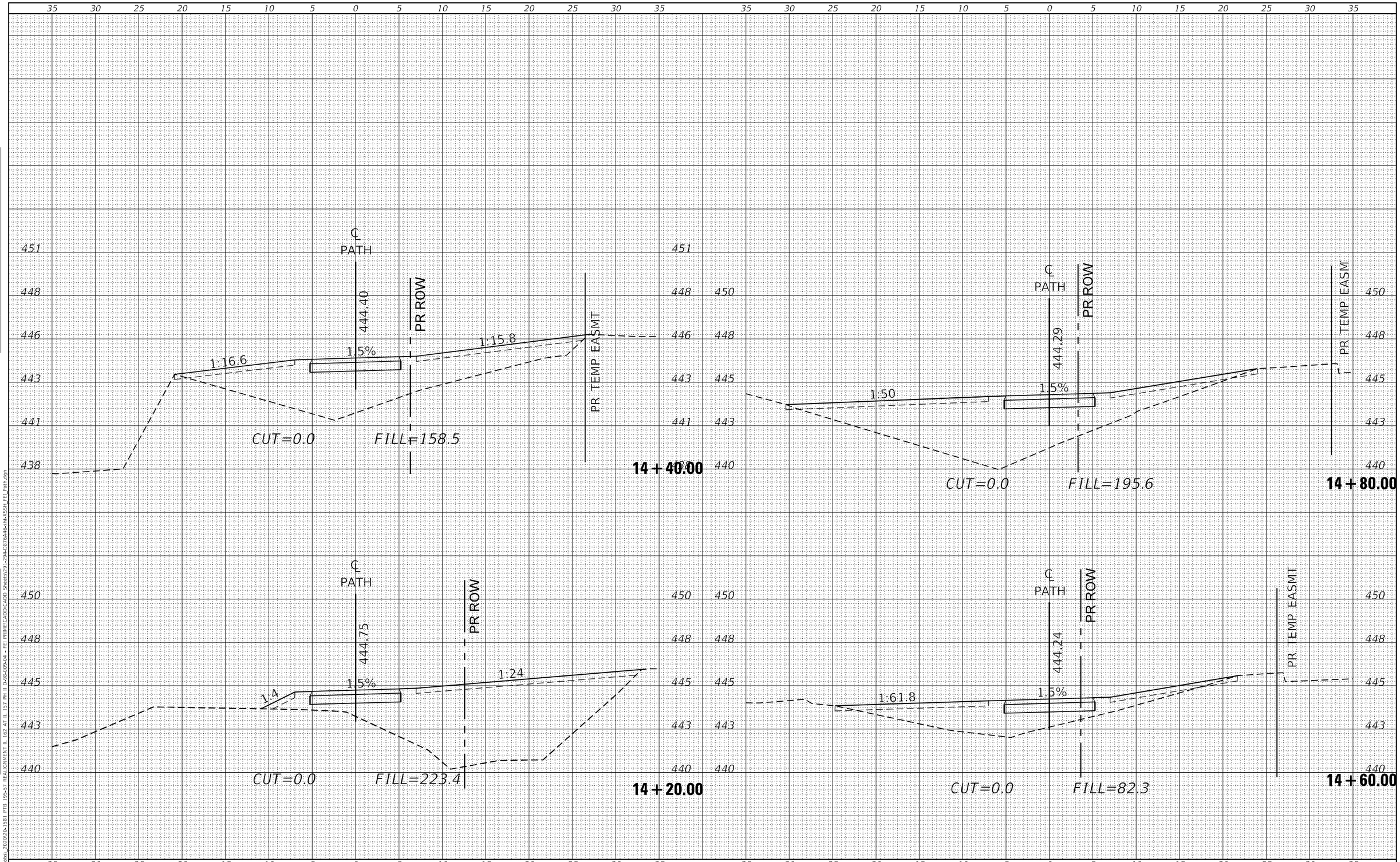
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PATH CROSS SECTION

SCALE: 1"=5' | SHEET 2 OF 4 SHEETS | STA. 13+40.00 | TO STA. 14+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	294
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592



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		DRAWN -	REVISED -		SCALE: 1"=5' SHEET 3 OF 4 SHEETS STA. 14+20.00 TO STA. 14+80.00
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/15/2024	DATE -	REVISED -		

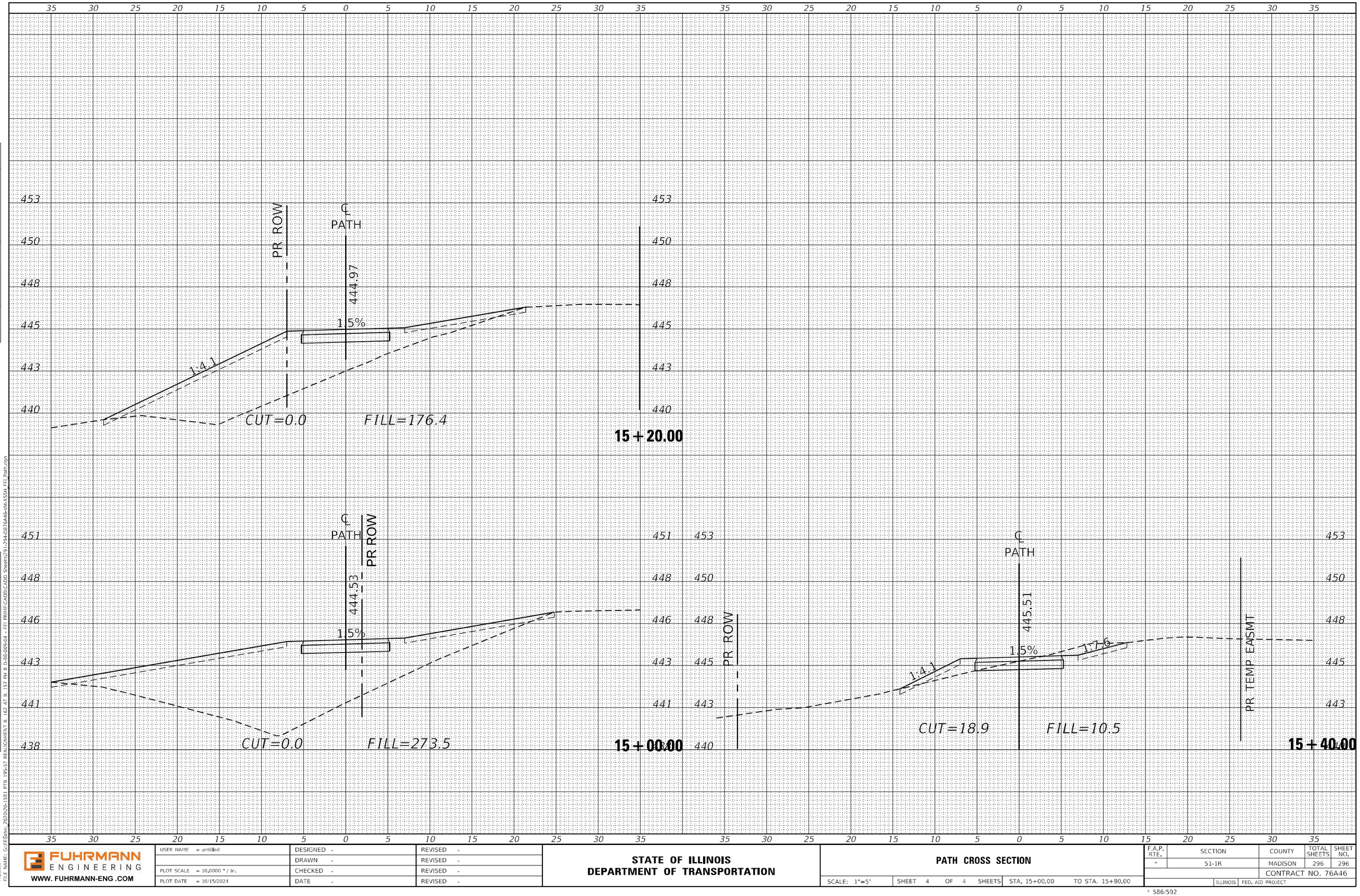
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	295
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592

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

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



FINAL SURVEY | ORIGINAL SURVEY

NOTE BOOK | NO.

SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

MODEL:
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	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PATH CROSS SECTION

SCALE: 1"=5' | SHEET 4 OF 4 SHEETS | STA. 15+00.00 | TO STA. 15+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	296
		CONTRACT NO. 76A46		
	ILLINOIS	FED. AID PROJECT		

* 586/592