

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	1
		ILLINOIS	CONTRACT NO.	62P67

* 139 + 4 = 143 TOTAL SHEETS
P-91-185-09
D-91-206-19

SUBSURFACE UTILITY ENGINEERING (S.U.E.)
 UTILIZED ON THIS PROJECT

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 80 (I-80)
 SECTION 2021-151-B
 PROJECT NHPP-S3A1 (548)
 BRIDGE REPLACEMENT AND WIDENING
 WILL COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

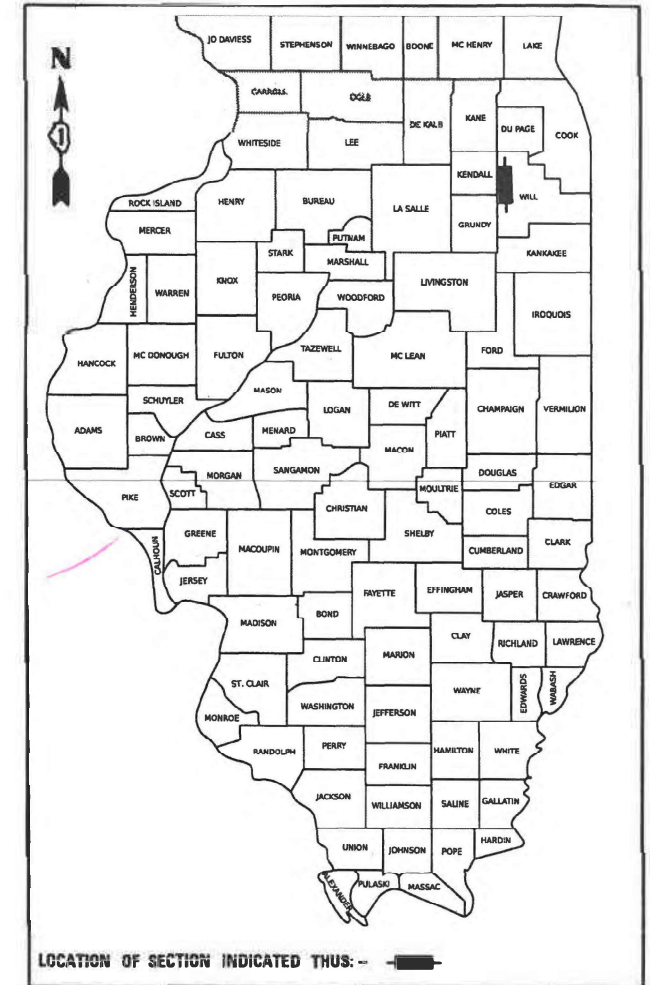
PROJECT IS LOCATED IN THE VILLAGE OF
 SHOREWOOD

POSTED SPEED = 30 MPH
 DESIGN SPEED = 40 MPH

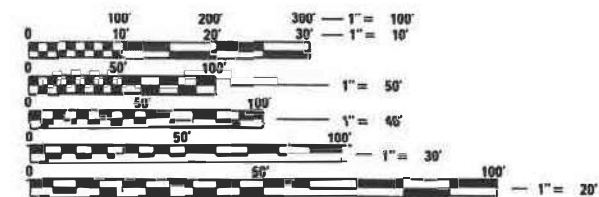
BEGIN PROJECT
 STA. 20+00.00
 C-91-034-22

RIVER ROAD OVER I-80
 (S.N. 099-8304)
 STA. 25+66.59 TO STA. 28+00.25

END PROJECT
 STA. 33+00.00

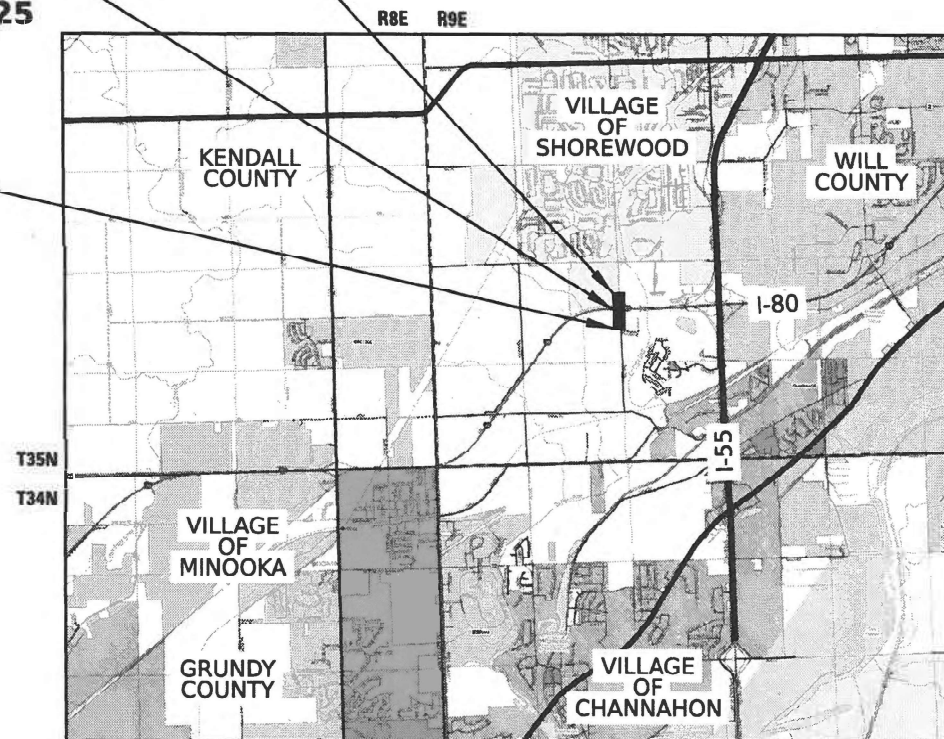


FUNCTIONAL CLASSIFICATION:
 LOCAL ROAD OR STREET
 2016 ADT = 1,950
 P.V. = 90.60% S.U. = 6.90% M.U. = 2.50%



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

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



LOCATION MAP

SCALE: 1" = 5000'
 GROSS LENGTH = 1300 FT. = 0.246 MILE
 NET LENGTH = 1300 FT. = 0.246 MILE

STANTEC CONSULTING
 SERVICES INC.



DATE: 01-27-2023
 DUSTIN J. BOOK, P.E.
 NO. 062-057930
 EXP. DATE: 11-30-2023

SEAL AND SIGNATURE APPLY TO:
 1 TO 23 & 107 TO 137

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED JANUARY 13 2023
Jose Rivero REGIONAL ENGINEER
 March 24, 2023
Steph M. Smith ENGINEER OF DESIGN AND ENVIRONMENT
 March 24, 2023
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: KENNETH PARK, P.E. (847) 705-4594
 PROJECT MANAGER: SULEYMAN TULGAR, P.E. (847) 705-4212

CONTRACT NO. 62P67



PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

STD. NO.	TITLE
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
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630001-12	STEEL PLATE BEAM GUARDRAIL
630116	BACK SIDE PROTECTION OF GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
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
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT ONE STANDARD DETAILS

STD. NO.	TITLE
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	FREEWAY / EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS / EXPRESSWAYS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

COMMITMENTS

NO COMMITMENTS RECORDED

MODEL: D:\default\p1\transys\transys\sc095\p1\HOSTED\Documents\projects_2018\CH401\40118002\01-Station\CAD\CR-02_62P67\04-Sheets\01-General\0162P67-std-gp-nonce-001_V10.dgn
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USER NAME = aericksen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, HIGHWAY STANDARDS AND COMMITMENTS

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	137	2
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED EDGE OF PAVEMENTS TO EXISTING EDGE OF PAVEMENTS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- STORM SEWER CONSTRUCTED UNDER THE ROADWAY SHALL BE BACKFILLED ACCORDING TO METHOD 1 OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER THE RECORD TO THE ENGINEER.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER SHALL CONTACT MS. REGINA COOPER, AREA TRAFFIC FIELD ENGINEER (or TECHNICIAN), AT (847) 705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.
- ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), UNLESS OTHERWISE NOTED. HORIZONTAL DATUM IS REFERENCED TO ILLINOIS STATE PLAN COORDINATE SYSTEM, EAST ZONE, NAD83 (2011).
- THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
- ALL ROADWAY WIDTHS AND RADII SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATION OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.
- CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES.
- COOPERATION BETWEEN CONTRACTORS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- THE COST OF FULL OR PARTIAL DEPTH SAW CUTS REQUIRED FOR REMOVAL ITEMS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE ITEM.
- WHEN ARTIFICIAL LIGHTING IS USED FOR NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AIR TRAFFIC AND ADJOINING PROPERTIES.
- STANDARD BD 51 IS INCLUDED AS A TOKEN PROVISION IN ANTICIPATION OF ONSITE CONDITIONS AND STEEPER SIDE SLOPES WHICH WILL WARRANT THE BENCHING DETAIL.
- IT IS ANTICIPATED THAT THIS CONTRACT WILL BE CONSTRUCTED CONCURRENTLY WITH OTHER ROADWAY PROJECTS IN THE SAME AREA. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITHIN THIS CONTRACT THAT WILL REQUIRE MAINTENANCE OF TRAFFIC BELOW S.N. 099-8304, ALONG WB AND EB INTERSTATE 80, WITH IDOT CONTRACT NO. 62P71. COORDINATION EFFORTS HAVE BEEN MADE TO ACCOMMODATE THE REQUIRED MAINTENANCE OF TRAFFIC ALONG INTERSTATE 80 FOR THIS CONTRACT WITHIN THE MAINTENANCE OF TRAFFIC PLANS FOR IDOT CONTRACT NO. 62P71.

- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT
- THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING TEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOT.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON A WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

LANDSCAPING GENERAL NOTES

- VILLAGE WATER AND SEWER MAINS MAY BE LOCATED IN THE LANDSCAPE AREA.

THE CONTRACTOR WILL NOT BE ALLOWED TO PROCEED WITH ANY PLANTING WORK UNTIL ALL UTILITY OWNERS FIELD LOCATE THEIR FACILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS.

THE ACTUAL LOCATION OF PROPOSED LANDSCAPING WILL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES.
- INTERSEEDING, CLASS 2A IS TO BE USED TO RENOVATE AREAS WHERE EXISTING TURF IS IN POOR CONDITION. EXACT LOCATIONS WILL BE DETERMINED DURING CONSTRUCTION BY THE ENGINEER.
- UNDERBRUSH OR DEBRIS AT PLANTING LOCATIONS SHALL BE REMOVED AND DISPOSED OF ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COSTS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE CONSTRUCTION ITEMS INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- CONTRACTOR SHALL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST 2 WEEKS PRIOR TO FORESTRY WORK TO IDENTIFY AND MARK TREES TO SAVE WITHIN TREE REMOVAL AREAS.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.

DRAINAGE GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE JOB SITE DURING CONSTRUCTION.
- DRAINAGE GRADES SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF DRAINAGE ITEMS.
- REMOVAL OF EXISTING PIPE UNDERDRAIN AND PIPE UNDERDRAIN OUTFALL STRUCTURES ARE INCLUDED IN THE PRICE OF EARTH EXCAVATION.
- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED A MINIMUM OF 6" BELOW THE AGGREGATE SUBGRADE LAYER. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COSTS OF THE PIPE UNDERDRAINS.
- THE CONTRACTOR SHALL VERIFY THE EXISTING OUTLET STRUCTURE LOCATIONS AND INVERTS PRIOR TO STARTING UPSTREAM STORM SEWER CONNECTION AND CONSTRUCTION.
- SEE DRAINAGE DETAIL SHEETS FOR DRAINAGE STRUCTURE OFFSET AND RIM ELEVATION LOCATION.
- THE COST OF MAKING SEWER AND UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES AND BREAKING NEW HOLES INTO EXISTING OR PROPOSED DRAINAGE STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE COST FOR DRAINAGE WORK.
- PROPOSED RIM AND INVERT ELEVATIONS ARE BASED ON EXISTING THEORETICAL GRADES. ACTUAL FINAL GRADES ARE SUBJECT TO NOMINAL VARIATIONS. ADJUSTMENTS OF PROPOSED CASINGS TO FINAL GRADES IS INCLUDED IN THE COST OF THE RELATED DRAINAGE STRUCTURE. ADJUSTMENT OF THE PROPOSED PIPE INVERTS TO FINAL GRADES IS INCLUDED IN THE COST OF THE RELATED DRAINAGE PIPE.
- SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURE SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST FOR THE DRAINAGE WORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PLAN THE OPERATIONS, WITH THE APPROVAL OF THE ENGINEER, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND ENSURE PROPER SURFACE RUNOFF. ANY MINOR DITCH GRADING AND BULKHEADING AS DIRECTED BY THE ENGINEER, NECESSARY TO PROVIDE FOR THE INTERIM DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

UTILITY GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 811, OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. SEVENTY-TWO (72) HOUR NOTIFICATION IS REQUIRED.

IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT 773-287-7672.
- THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES, AND ALLOW SUFFICIENT TIME FOR THEM TO PERFORM ADJUSTMENTS TO THEIR FACILITIES IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS, ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE.

EARTHWORK GENERAL NOTES

- THE CONTRACTOR SHALL ENSURE THAT EXPOSED AREAS HAVE ADEQUATE TEMPORARY SEEDING OR OTHER STABILIZATION PER THE NPDES AND 14 DAY RULE.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- AGGREGATE SUBGRADE IMPROVEMENT SHALL BE USED TO REPLACE ANY UNSUITABLE SOILS BELOW THE BOTTOM OF THE IMPROVED SUBGRADE LAYER THAT ARE ENCOUNTERED IN THE FIELD DURING CONSTRUCTION. THE NEED FOR REMOVAL AND REPLACEMENT SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER OR SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. ANY MATERIAL NOT NEEDED FOR UNDERCUT REPLACEMENT AT THE TIME OF CONSTRUCTION SHALL BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

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USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000 * / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	3
CONTRACT NO. 62P67			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODE

90% FEDERAL / 10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	S.N. 099-8304	S.N. 099-W805	S.N. 099-W806
				0003	0010	0010	0010
				URBAN	URBAN	URBAN	URBAN
20100500	TREE REMOVAL, ACRES	ACRE	1.50	1.50			
20101000	TEMPORARY FENCE	FOOT	1,213	1,213			
20200100	EARTH EXCAVATION	CU YD	1,005	1,005			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	275	275			
20400800	FURNISHED EXCAVATION	CU YD	4,195	4,195			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	824	824			
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2,170	2,170			
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25			
25000312	SEEDING, CLASS 4A	ACRE	1.25	1.25			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	225	225			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	225	225			
25000750	MOWING	ACRE	2.50	2.50			
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	10,398	10,398			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2,500	2,500			
28000305	TEMPORARY DITCH CHECKS	FOOT	140	140			
28000400	PERIMETER EROSION BARRIER	FOOT	4,163	4,163			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	275	275			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,673	3,673			
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	690	690			
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	53	53			

* =SPECIALTY ITEMS



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	4
CONTRACT NO. 62P67			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90% FEDERAL / 10% STATE			
				ROADWAY	S.N. 099-8304	S.N. 099-W805	S.N. 099-W806
				0003	0010	0010	0010
				URBAN	URBAN	URBAN	URBAN
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,552	1,552			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	156	156			
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	155	155			
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,088	1,088			
40701841	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	SQ YD	2,416	2,416			
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	94	94			
44000100	PAVEMENT REMOVAL	SQ YD	2,632	2,632			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	762	762			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	819	819			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1		
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4			
50157300	PROTECTIVE SHIELD	SQ YD	711		711		
50200100	STRUCTURE EXCAVATION	CU YD	690		298	198	194
50300225	CONCRETE STRUCTURES	CU YD	451.9		165.9	137	149
50300255	CONCRETE SUPERSTRUCTURE	CU YD	392.9		392.9		
50300260	BRIDGE DECK GROOVING	SQ YD	973		973		
50300300	PROTECTIVE COAT	SQ YD	2,558		1,776	375	407
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	117		117		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1		
50500505	STUD SHEAR CONNECTORS	EACH	8,720		6,860	884	976

* =SPECIALTY ITEMS



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	5
CONTRACT NO. 62P67			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODE

90% FEDERAL / 10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	S.N. 099-8304	S.N. 099-W805	S.N. 099-W806
				0003	0010	0010	0010
				URBAN	URBAN	URBAN	URBAN
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	9	9			
67100100	MOBILIZATION	L SUM	1	1			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	480	480			
70301120	TEMPORARY PAVEMENT MARKING - LINE 4" - EPOXY	FOOT	1,900	1,900			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	775	775			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	750	750			
70600280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,NARROW), TEST LEVEL 3	EACH	2	2			
70600370	IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3	EACH	2	2			
* 72000100	SIGN PANEL - TYPE 1	SQ FT	5	5			
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	17	17			
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	14	14			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,034	4,034			
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,167	1,167			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	34	34			
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16			
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	50	50			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30	30			

* =SPECIALTY ITEMS



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	8
CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		

48203029 HOT-MIX ASPHALT SHOULDERS, 8"					
LOCATION	FROM		TO		TOTAL (SQ YD)
	STATION	OFFSET (FT)	STATION	OFFSET (FT)	
RIVER ROAD	20+00.0	2.0	21+70.0	2.0	37.8
RIVER ROAD	21+70.0	2.0	22+50.0	4.0	26.7
RIVER ROAD	22+50.0	4.0	25+27.6	4.0	123.4
RIVER ROAD	28+39.4	4.0	32+00.0	4.0	160.3
RIVER ROAD	32+00.0	4.0	32+80.0	2.0	26.7
RIVER ROAD	32+80.0	2.0	33+00.0	2.0	4.4
RIVER ROAD	20+00.0	4.0	25+27.6	4.0	234.5
RIVER ROAD	28+39.3	4.0	33+00.0	4.0	204.8
PAY ITEM TOTAL =					819

50104400 CONCRETE HEADWALL REMOVAL					
LOCATION	STATION	OFFSET	TOTAL (UNITS)		
			RIVER ROAD	26+02.3	43.9 LT
RIVER ROAD	26+02.5	41.9 RT	1		
RIVER ROAD	27+62.7	42.4 LT	1		
RIVER ROAD	27+64.0	41.1 RT	1		
PAY ITEM TOTAL =					4

54213669 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"					
LOCATION	STATION	OFFSET	TOTAL (UNITS)		
			RIVER ROAD	25+94.9	48.8 RT
RIVER ROAD	25+95.1	51.2 LT	1		
PAY ITEM TOTAL =					2

54213669 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"					
LOCATION	STATION	OFFSET	TOTAL (UNITS)		
			RIVER ROAD	27+73.0	51.2 LT
RIVER ROAD	27+74.5	48.8 RT	1		
PAY ITEM TOTAL =					2

6008206 PIPE UNDERDRAINS, TYPE 2, 6"					
LOCATION	FROM		TO		TOTAL (FOOT)
	STATION	OFFSET (FT)	STATION	OFFSET (FT)	
RIVER ROAD	20+06.9	11.0 LT	25+00.0	11.0 LT	493.1
RIVER ROAD	20+11.9	11.0 RT	25+00.0	11.0 RT	488.1
RIVER ROAD	28+39.3	11.0 LT	32+91.3	11.0 LT	452.0
RIVER ROAD	28+39.3	11.0 RT	32+93.3	11.0 RT	454.0
PAY ITEM TOTAL =					1888

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS					
LOCATION	FROM		TO		TOTAL (FOOT)
	STATION	OFFSET (FT)	STATION	OFFSET (FT)	
RIVER ROAD	20+63.1	13.0 LT	25+00.6	15.5 LT	437.5
RIVER ROAD	20+90.7	13.0 RT	25+15.7	15.4 RT	425.0
RIVER ROAD	28+66.2	15.2 LT	33+41.2	15.1 LT	475.0
RIVER ROAD	28+66.2	15.3 RT	31+38.7	15.2 RT	275.0
PAY ITEM TOTAL =					1612.5

63000035 BACK SIDE PROTECTION OF GUARDRAIL					
LOCATION	FROM		TO		TOTAL (FEET)
	STATION	OFFSET	STATION	OFFSET	
RIVER ROAD	22+50.0	15.7 LT	25+37.6	15.2 LT	300.0
RIVER ROAD	28+66.2	15.5 LT	33+41.2	16.2 LT	475.0
PAY ITEM TOTAL =					775.0

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6					
LOCATION	STATION	OFFSET	TOTAL (UNITS)		
RIVER ROAD	25+00.6	15.0 LT	1		
RIVER ROAD	25+15.7	15.0 RT	1		
RIVER ROAD	28+29.3	15.0 LT	1		
RIVER ROAD	28+14.3	15.0 RT	1		
PAY ITEM TOTAL =					4

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT					
LOCATION	STATION	OFFSET	TOTAL (UNITS)		
			RIVER ROAD	20+13.1	15.0 LT
RIVER ROAD	20+40.7	15.0 RT	1		
RIVER ROAD	33+41.2	15.0 LT	1		
RIVER ROAD	31+38.7	15.0 RT	1		
PAY ITEM TOTAL =					4

63200310 GUARDRAIL REMOVAL					
LOCATION	FROM		TO		TOTAL (FEET)
	STATION	OFFSET	STATION	OFFSET	
RIVER ROAD	21+72.9	16.7 LT	25+75.3	14.8 LT	412.5
WESTBOUND	27+92.4	15.0 LT	31+08.1	15.9 LT	325.0
RIVER ROAD	21+85.9	15.4 RT	25+75.3	14.9 RT	400.0
RIVER ROAD	27+92.4	14.6 RT	31+06.9	15.7 RT	325.0
PAY ITEM TOTAL =					1462.5

66500105 WOVEN WIRE FENCE, 4'					
LOCATION	FROM		TO		TOTAL (FOOT)
	STATION	OFFSET (FT)	STATION	OFFSET (FT)	
RIVER ROAD	25+70.9	29.3 LT	25+83.8	63.5 LT	36.5
RIVER ROAD	25+83.8	63.5 LT	25+83.8	80.3 LT	16.8
RIVER ROAD	25+64.9	17.7 RT	25+58.7	65.5 RT	48.2
RIVER ROAD	25+58.7	65.5 RT	25+85.9	91.9 RT	37.9
RIVER ROAD	28+08.0	18.3 RT	29+22.7	73.1 RT	127.1
RIVER ROAD	28+33.3	29.6 LT	29+22.7	73.1 RT	136.2
PAY ITEM TOTAL =					340

Z0005216 HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL					
LOCATION	FROM		TO		TOTAL (SQ YD)
	STATION	WIDTH (FT)	STATION	WIDTH (FT)	
RIVER ROAD	22+50.0	3.0	25+37.6	3.0	95.9
RIVER ROAD	28+95.3	3.0	31+62.1	3.0	88.9
PAY ITEM TOTAL =					207

SIGN NAME	STATION	OFFSET	TYPE	SIGN DESIGNATION	DESCRIPTION	EXISTING PANEL DIMENSIONS			72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A (SQ FT)	PROPOSED PLACEMENT		72000100 SIGN PANEL - TYPE 1 (SQ FT)	72800100 TELESCOPING STEEL SIGN SUPPORT (FOOT)	72501000 TERMINAL MARKER - DIRECT APPLIED (EACH)
						WIDTH (FT)	HEIGHT (FT)	AREA (SF)		STATION	OFFSET			
						1-NB-001-G	21+84.7	17.0 RT		PANEL	R2-1			
1-NB-003-G	21+75.2	13.1 LT	PANEL	OM-3L	EXISTING OBJECT MARKER	1.00	3.00	3.00	3.00	20+13.1	15.0 LT			1
1-NB-002-G	21+84.5	13.8 RT	PANEL	OM-3R	EXISTING OBJECT MARKER	1.00	3.00	3.00	3.00	20+40.7	15.0 RT			1
1-NB-004-G	31+06.3	15.0 RT	PANEL	OM-3R	EXISTING OBJECT MARKER	1.00	3.00	3.00	3.00	31+88.7	15.0 RT			1
1-NB-005-G	31+08.7	14.9 LT	PANEL	OM-3L	EXISTING OBJECT MARKER	1.00	3.00	3.00	3.00	33+91.1	15.0 LT			1
PAY ITEM TOTALS =									17			5	14	4

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USER NAME = dbook
 PLOT SCALE = 100,000' / in.
 PLOT DATE = 1/26/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	11
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC					70400100	70400125	70400200	70600280	70600370	78200011	78300200	X6420002
MAINTENANCE OF TRAFFIC					TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (REFLECTORS ONLY)	FILLING EXISTING RUMBLE STRIP
LOCATION	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	(FOOT)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)
STAGE 1A												
EASTBOUND	297+97.9	43.5 RT	315+29.5	44.6 RT							44	
EASTBOUND	298+40.4	56.4 RT	314+70.0	57.8 RT								1630
EASTBOUND	301+80.4	26.9 RT	302+42.5	33.2 RT	62.5			1		6		
EASTBOUND	302+42.5	33.2 RT	307+30.0	34.2 RT	487.5					40		
WESTBOUND	301+42.1	29.2 LT	306+04.6	29.1 LT			462.5					
WESTBOUND	306+04.6	29.1 LT	306+67.0	24.8 LT			62.5	1				
STAGE 1B												
WESTBOUND	301+42.1	7.0 LT	305+25.0	4.7 LT		184	383.0					
WESTBOUND	305+25.0	4.7 LT	306+67.0	0.0 RT		68	142.0					
STAGE 2												
EASTBOUND	302+42.1	63.2 RT	303+04.3	57.6 RT	62.5				1	6		
EASTBOUND	303+04.3	57.6 RT	308+04.3	58.7 RT	500.0					40		
WESTBOUND	302+54.5	58.4 LT	306+04.5	58.6 LT	350.0					28		
WESTBOUND	306+04.5	58.6 LT	306+66.8	63.0 LT	62.5				1	6		
PAY ITEM TOTALS =					1525.0	252	1050.0	2	2	126	44	1630

MAINTENANCE OF TRAFFIC PAVEMENT MARKING		70301120		70301125	78000200		78000300	78300202
MAINTENANCE OF TRAFFIC PAVEMENT MARKING		TEMPORARY PAVEMENT MARKING - LINE 4" - EPOXY		TEMPORARY PAVEMENT MARKING - LINE 5" - EPOXY	THERMOPLASTIC PAVEMENT MARKING - LINE 4"		THERMOPLASTIC PAVEMENT MARKING - LINE 5"	PAVEMENT MARKING REMOVAL - WATER BLASTING
FROM STATION	TO STATION	YELLOW LANE LINE (FOOT)	WHITE LANE LINE (FOOT)	WHITE SKIP DASH (FOOT)	YELLOW LANE LINE (FOOT)	WHITE LANE LINE (FOOT)	WHITE SKIP DASH (FOOT)	(SQ FT)
STAGE 1A - EXISTING PAVEMENT MARKING REMOVAL AND TEMPORARY PAVEMENT MARKING								
297+97.9	300+80.3	282.5	240.0	45.7				193.2
300+80.3	301+80.3	100.0	100.0	25.0				77.1
301+80.3	302+42.5	62.2	62.2	15.6				48.0
302+42.5	307+30.0	487.5	487.5	121.9				375.8
307+30.0	312+30.0	500.0	500.0	125.0				385.4
312+30.0	315+30.0	300.0	240.2	74.9				211.3
STAGE 1B - TEMPORARY PAVEMENT MARKING REMOVAL AND PAVEMENT MARKING								
297+97.9	300+80.3				282.5	240.0	45.7	193.2
300+80.3	301+80.3				100.0	100.0	25.0	77.1
301+80.3	302+42.5				62.2	62.2	15.6	48.0
302+42.5	307+30.0				487.5	487.5	121.9	375.8
307+30.0	312+30.0				500.0	500.0	125.0	385.4
312+30.0	315+30.0				300.0	240.2	74.9	211.3
PAY ITEM TOTALS =		3363	409		3363	409		2582

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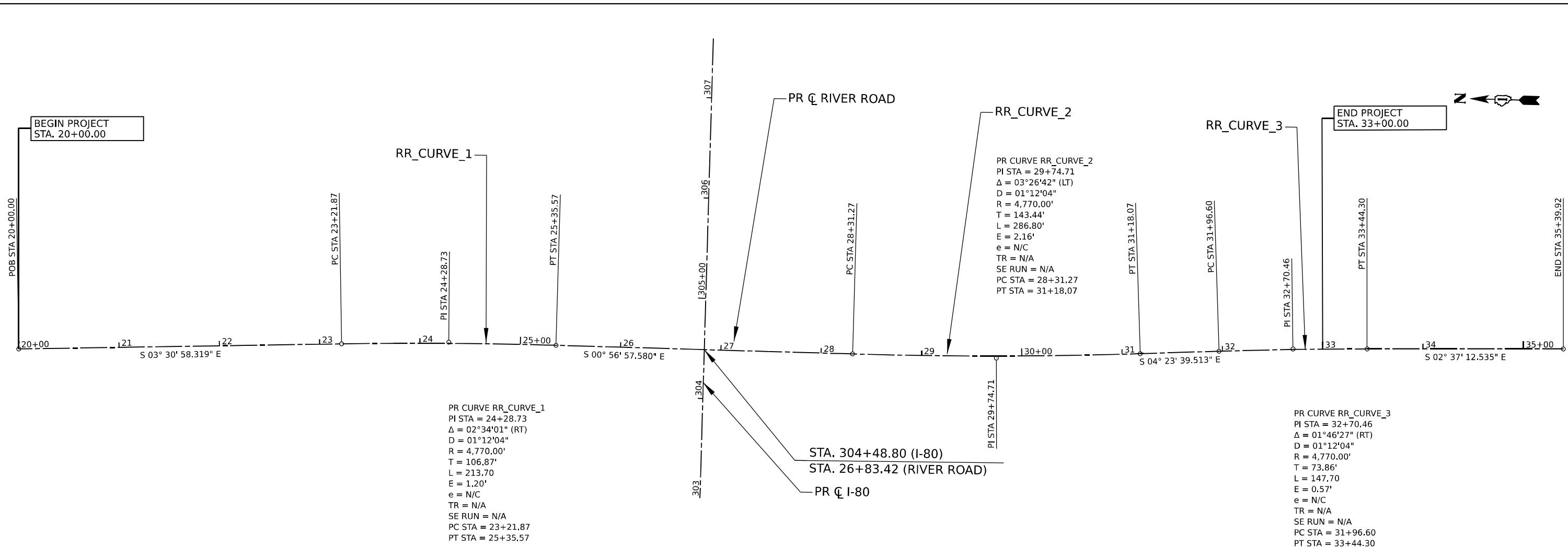
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PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	137	12A
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				



PR CURVE RR_CURVE_1
 PI STA = 24+28.73
 $\Delta = 02^\circ 34' 01''$ (RT)
 $D = 01^\circ 12' 04''$
 $R = 4,770.00'$
 $T = 106.87'$
 $L = 213.70'$
 $E = 1.20'$
 $e = N/C$
 $TR = N/A$
 $SE RUN = N/A$
 $PC STA = 23+21.87$
 $PT STA = 25+35.57$

PR CURVE RR_CURVE_2
 PI STA = 29+74.71
 $\Delta = 03^\circ 26' 42''$ (LT)
 $D = 01^\circ 12' 04''$
 $R = 4,770.00'$
 $T = 143.44'$
 $L = 286.80'$
 $E = 2.16'$
 $e = N/C$
 $TR = N/A$
 $SE RUN = N/A$
 $PC STA = 28+31.27$
 $PT STA = 31+18.07$

PR CURVE RR_CURVE_3
 PI STA = 32+70.46
 $\Delta = 01^\circ 46' 27''$ (RT)
 $D = 01^\circ 12' 04''$
 $R = 4,770.00'$
 $T = 73.86'$
 $L = 147.70'$
 $E = 0.57'$
 $e = N/C$
 $TR = N/A$
 $SE RUN = N/A$
 $PC STA = 31+96.60$
 $PT STA = 33+44.30$

ALIGNMENT COORDINATES - I-80			
	STATION	NORTHING	EASTING
POB	100+00.00	1,746,595.8341	999,489.2786
PC	161+94.06	1,746,806.7216	1,005,679.7467
PI	180+55.69	1,746,870.1039	1,007,540.2941
PT	196+62.08	1,748,367.7886	1,008,646.0042
PC	262+41.81	1,753,661.2030	1,012,554.0238
PI	281+45.14	1,755,192.4390	1,013,684.5040
PT	297+77.15	1,755,223.9736	1,015,587.5738
POT	332+87.50	1,755,282.1335	1,019,097.4381

ALIGNMENT COORDINATES - RIVER ROAD				
	STATION	NORTHING	EASTING	CURVE
POB	20+00.00	1,755,917.7140	1,016,228.6200	
PC	23+21.87	1,755,596.4520	1,016,248.3600	RR_CURVE_1
PI	24+28.73	1,755,489.7870	1,016,254.9150	RR_CURVE_1
PT	25+35.57	1,755,382.9350	1,013,256.6850	RR_CURVE_1
PC	28+31.27	1,755,087.2720	1,016,261.5840	RR_CURVE_2
PI	29+74.71	1,754,943.8470	1,016,263.9610	RR_CURVE_2
PT	31+18.07	1,754,800.8240	1,013,274.9520	RR_CURVE_2
PC	31+96.60	1,754,722.5250	1,016,280.9690	RR_CURVE_3
PI	32+70.46	1,754,648.8840	1,016,286.6280	RR_CURVE_3
PT	33+44.30	1,754,575.1040	1,016,290.0040	RR_CURVE_3
END	35+39.92	1,754,379.6980	1,016,298.9469	

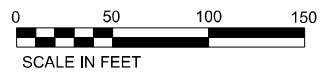
BENCHMARKS					
NUMBER	ELEVATION	NORTHING	EASTING	DESCRIPTION	
BM-1	600.47	1,746,709.6	1,001,129.7	Set 2" CWA aluminum disc in north side of westerly pier seat being the first pier west of Ridge Road for I-80 bridge over Ridge Road (FB626/PG32)	
BM-2	619.10	1,746,597.7	1,002,645.6	Set 2" CWA aluminum disc in concrete base of light pole, east of Ridge Road & 675'± west of railroad on south side of eastbound I-80 (FB626/PG34)	
BM-3	608.94	1,746,782.8	1,003,079.1	Set 2" CWA aluminum disc in concrete base of light pole, east of Ridge Road & 300'± west of railroad on north side of westbound I-80 (FB626/PG34)	
BM-4	618.86	1,746,798.1	1,003,844.9	Set 2" CWA aluminum disc in concrete pier seat under Wabena Street bridge on north side of westbound I-80 (FB5626/PG26) (FB628/PG4)	
BM-5	626.67	1,746,868.7	1,006,294.6	Set 2" CWA aluminum disc in easterly end of centerline median wall of I-80, approximately 2400'± east of Wabena Street & 215'± west of Will County GPS Monument 1006 (FB626/PG26) (FB628/PG4)	
BM-6	615.33	1,747,393.7	1,007,602.6	Set 2" CWA aluminum disc in concrete end of drainage structure west of turnaround in center median of I-80 400'± west of mile marker 123.0 (FB626/PG26) (FB628/PG3)	
BM-7	599.98	1,749,593.5	1,009,622.2	Set 2" CWA aluminum disc in concrete pier seat in southerly pier of Shepley Road bridge on south side of eastbound I-80 (FB626/PG26) (FB628/PG5)	
BM-8	582.76	1,754,922.1	1,014,323.8	Set 2" CWA aluminum disc in north side of concrete base of overhead highway sign "Exit 126A" on south side of eastbound I-80, approximately 2000'± west of River Road, (FB626/PG27) (FB628/PG10)	
BM-9	575.612	1,755,168.7	1,016,267.0	Set 2" CWA aluminum disc in concrete pier seat in southerly pier of River Road bridge on south side of eastbound I-80 (FB626/PG27) (FB628/PG10)	
BM-10	568.745	1,755,191.6	1,017,829.8	Set 2" CWA aluminum disc at top of concrete parapet wall at SE corner of eastbound I-80 bridge over DuPage River (FB626/PG27) (FB628/PG11)	

NGS PRIMARY HORIZONTAL CONTROL MONUMENTS				
NGS ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
PID-DH6200	1,743,515.7900	989,052.4900	N/A	GRUNDY COUNTY GIS 0304
PID-AE2473	1,730,878.1600	1,006,979.2900	N/A	WILL COUNTY GPS 1019
PID-AE2471	1,746,831.7400	1,006,506.5100	619.1510	WILL COUNTY GPS 1006
PID-MF1784	1,767,814.8900	1,026,441.6900	579.8650	JOLIPOINT
PID-AE2571	1,764,272.0000	1,038,372.6700	628.6690	WILL COUNTY GPS 718
PID-AE2570	1,764,389.1600	1,053,254.6400	542.9050	WILL COUNTY GPS 716
PID-AE2569	1,764,641.7900	1,069,052.4900	660.4610	WILL COUNTY GPS 713

NGS PRIMARY VERTICAL CONTROL MONUMENTS				
NGS ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
PID-DP5481	1,765,290.0500	1,003,576.0500	635.1600	WRI 026 (2" ORDER)
PID-DP5482	1,765,111.3100	998,366.3600	N/A	WRI 027 (2" ORDER)
PID-MF0081	N/A	N/A	619.1510	G 142 (1" ORDER)
PID-MF0071	1,766,431.0500	1,051,094.9800	579.8650	J142 (1" ORDER)
PID-MF0070	1,764,344.9900	1,049,387.4800	628.6690	K142 (1" ORDER)
PID-ME1923	N/A	N/A	703.3000	W 26 (2" ORDER)

NOTE:
 ALL HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83(2011) GRID VALUES. ALL TARGET CONTROL COORDINATES WERE DERIVED FROM DOUBLE 3 MINUTE RTK GPS OBSERVATIONS. COORDINATES ARE CONSTRAINED HOLDING THE PUBLISHED NAD83(2011) VALUES FOR NGS PRIMARY HORIZONTAL CONTROL MONUMENTS SHOWN BELOW.
 ALL VERTICAL DATUM SHOWN HEREON IS REFERENCED TO NAVD88 BASED ON DIGITAL DIFFERENTIAL LEVELING METHODS. ALL ELEVATIONS ARE ESTABLISHED BY CLOSED LEVEL LOOPS GENERALLY HEADING IN THE EASTERLY DIRECTION FROM RIDGE ROAD TO US ROUTE 30. A TOTAL OF 0.04' OF ELEVATION ERROR WAS ADJUSTED AND BALANCED THROUGHOUT THE PROJECT CORRIDOR, COVERING APPROXIMATELY 35 MILES OF CLOSED LOOPS. ELEVATIONS ARE CONSTRAINED HOLDING THE PUBLISHED NAVD88 VALUES FOR NGS PRIMARY VERTICAL CONTROL MONUMENTS SHOWN BELOW.

NOTE:
 THE CONTRACTOR MUST TRANSFER BM-9 TO A PROTECTED LOCATION AND PROVIDE ELEVATION INFORMATION TO THE ENGINEER BEFORE STARTING DEMOLITION. THIS WORK IS INCLUDED IN THE CONTRACT PRICE FOR CONSTRUCTION LAYOUT.



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PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**


ALIGNMENT, TIES, AND BENCHMARKS

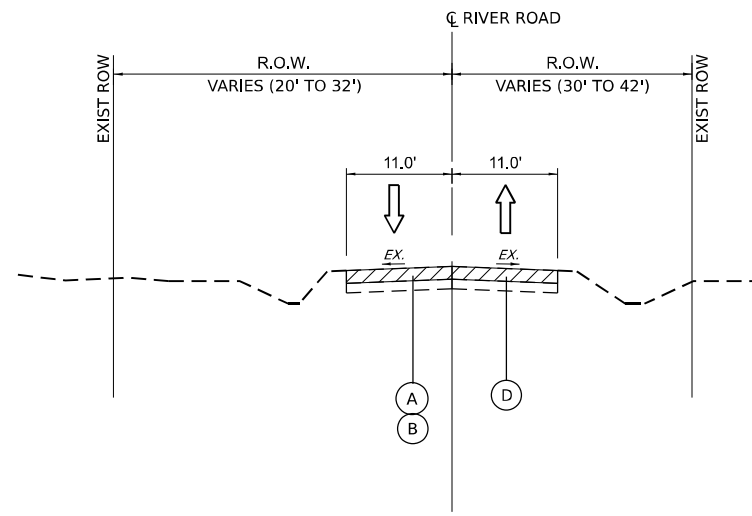
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T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 13
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

LEGEND

EXISTING TYPICAL SECTION

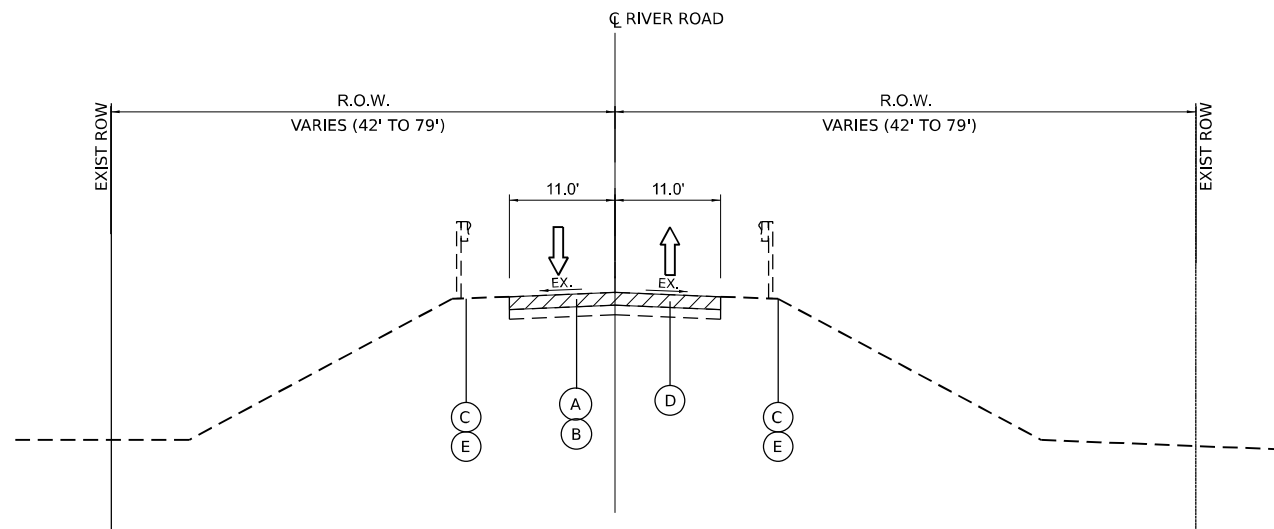
- (A) EXISTING HMA PAVEMENT, 7" & VARIES
 - (B) EXISTING SUB-BASE MATL, 8" & VARIES
 - (C) EXISTING GUARDRAIL
 - (D) PAVEMENT REMOVAL
 - (E) GUARDRAIL REMOVAL
-  REMOVAL ITEM



EXISTING ROADWAY TYPICAL SECTION

(LOOKING SOUTH)

STA. 20+00.00 TO STA. 22+50.00
 STA. 30+75.00 TO STA. 33+00.00



EXISTING ROADWAY TYPICAL SECTION

(LOOKING SOUTH)

STA. 22+50.00 TO STA. 25+66.59
 STA. 27+99.25 TO STA. 30+75.00

(BRIDGE OMISSION: STA. 25+66.59 TO STA. 27+99.25)

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USER NAME = jstrouse	DESIGNED -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

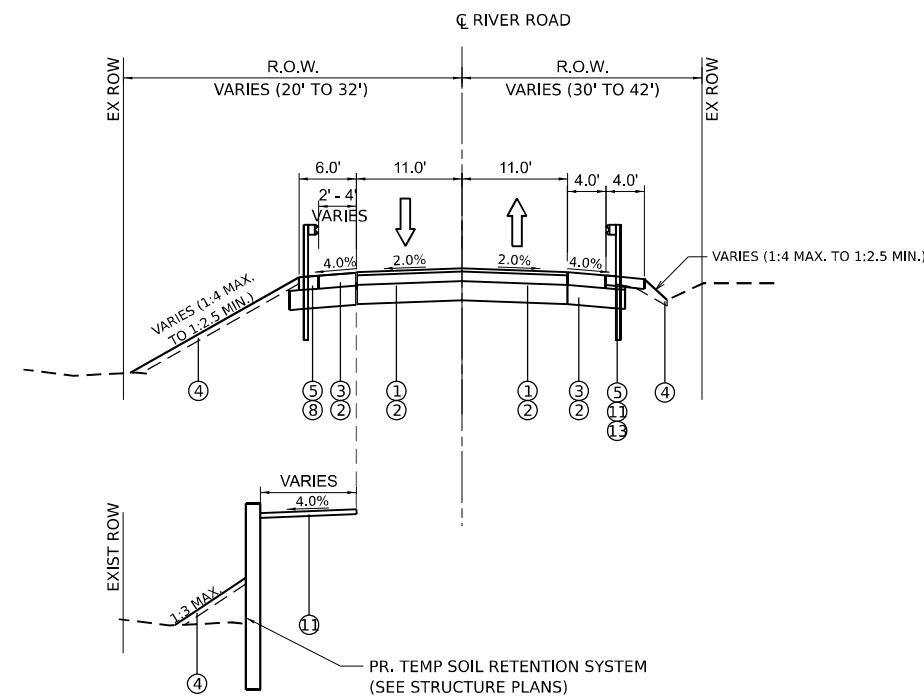
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	14
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

LEGEND

PROPOSED TYPICAL SECTION

- ① HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8" HMA SURFACE COURSE, MIX "D", IL-9.5, N50 (2") HMA BINDER COURSE, IL-19.0, N50 (6")
- ② AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ③ HOT-MIX ASPHALT SHOULDERS, 8"
- ④ TOPSOIL EXCAVATION AND PLACEMENT (6" DEPTH)
- ⑤ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑥ HOT-MIX ASPHALT SURFACE COURSE IL-9.5, MIX "D", N50 (4")
- ⑦ SUBBASE GRANULAR MATERIAL, TYPE B 6"
- ⑧ HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- ⑨ BICYCLE RAILING, CURVED
- ⑩ BACK SIDE PROTECTION OF GUARDRAIL
- ⑪ AGGREGATE SHOULDERS, TYPE B 6"
- ⑫ PROPOSED RETAINING WALL (SEE STRUCTURAL PLANS)
- ⑬ SUBBASE GRANULAR MATERIAL, TYPE C



STA. 21+75.00 TO STA. 22+50.00
 STA. 31+62.09 TO STA. 32+50.00

PROPOSED ROADWAY TYPICAL SECTION

(LOOKING SOUTH)

STA. 20+00.00 TO STA. 22+50.00
 STA. 31+62.09 TO STA. 33+00.00

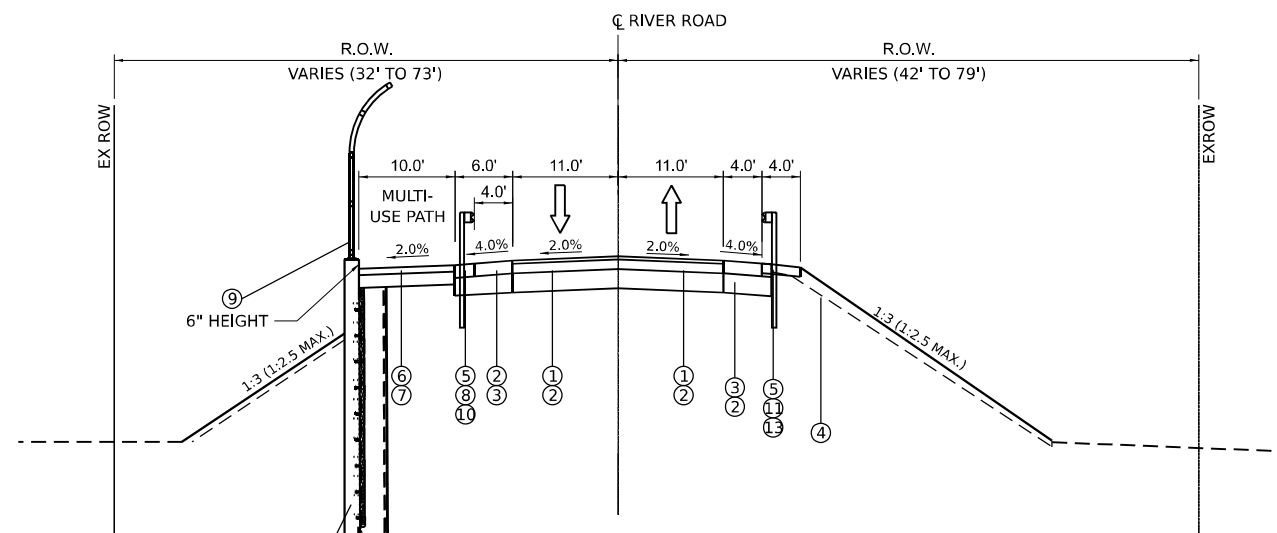
NOTE:
 AGGREGATE SUBGRADE IMPROVEMENT 12" SHOULD EXTEND 1-FOOT BEYOND THE LIMITS OF THE HMA SHOULDER (RT AND LT)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"		
HMA SURFACE COURSE, MIX "D", IL-9.5, N50: 2"	4.0% @ 50 GYR	QC/QA
HMA BINDER COURSE, IL-19.0, N50: 6"	4.0% @ 50 GYR	QC/QA
HOT-MIX ASPHALT SHOULDERS 8"		
HMA SURFACE COURSE, MIX "D", IL-9.5, N50: 2"	4.0% @ 50 GYR	QC/QA
HMA BINDER COURSE, IL-19.0, N50: 6"	4.0% @ 50 GYR	QC/QA
HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL		
HMA BINDER COURSE, IL-19: 6"	4.0% @ 50 GYR	QC/QA
MULTI-USE PATH		
HMA SURFACE COURSE, IL-9.5, MIX "D", N50: 4" (IN 2 LIFTS)	4.0% @ 50 GYR	QC/QA
FILLING EXISTING RUMBLE STRIP		
HMA SURFACE COURSE, IL-9.5, MIX "D", N70: 2"	4.0% @ 70 GYR	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP).		

NOTES: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.

THE "AC TYPE" FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



PROPOSED ROADWAY TYPICAL SECTION

(LOOKING SOUTH)

STA. 22+50.00 TO STA. 25+37.59
 STA. 28+29.25 TO STA. 31+62.09
 (BRIDGE AND APPROACH SLAB OMISSION: STA. 25+37.59 TO STA. 28+29.25)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	137	15
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				



USER NAME = aericksen	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

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TRAFFIC CONTROL GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
2. THE REMOVAL OF EXISTING CONFLICTING PAVEMENT MARKING LINES WILL BE PAID FOR AS WILL BE PAID FOR AS PAVEMENT MARKING REMOVAL - WATER BLASTING.
3. THE CONTRACTOR SHALL REMOVE OR COVER ALL EXISTING SIGNS THAT CONFLICT WITH OR DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS AND SHALL RESTORE THE SIGNS AT THE END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
4. SIGNING FOR CONSTRUCTION ENTRANCES/EXITS SHALL BE IMPLEMENTED ACCORDING TO DISTRICT TRAFFIC CONTROL STANDARD TC-18 SIGNING AND FLAGGING OPERATIONS AT WORK ZONE OPENINGS.
5. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. THE EXACT LOCATION OF ALL WARNING SIGNS AND BARRICADES SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
7. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48" x 48" AND HAVE A BLACK LEGEND AND BORDER ON A FLORESCENT ORANGE REFLECTORIZED BACKGROUND.
8. ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
9. THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY'S TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL ALSO CONTACT THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADRUGA@ILLINOIS.GOV 72 HOURS IN ADVANCE OF THE DETOUR.
10. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOT.IL.GOV TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON A WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
11. ALL TEMPORARY INFORMATION SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON A FLUORESCENT ORANGE REFLECTORIZED BACKGROUND.
12. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC AS SOON AS THEY ARE NO LONGER NECESSARY.
13. THE FURNISHING, INSTALLATION, AND RELOCATION OF ALL TRAFFIC SIGNS ALONG THE EXPRESSWAY SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
14. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES FOR ONE PLACEMENT AND ONE REPLACEMENT HAVE BEEN PROVIDED FOR EACH STAGE. ALL MARKINGS THAT REQUIRE REPLACEMENT AFTER THE FIRST REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
15. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

SUGGESTED SEQUENCE OF OPERATIONS

INTERSTATE 80 UNDER RIVER ROAD

THE CONTRACTOR WILL BE REQUIRED TO COMPLETE WORK WITHIN THE MAINLINE INTERSTATE 80 TO PERFORM THE WORK

THE SUGGESTED SEQUENCE OF OPERATIONS FOR INSIDE AND OUTSIDE SHOULDER CLOSURES HAVE BEEN PROVIDED FOR THE TRAFFIC CONTROL OF EASTBOUND AND WESTBOUND INTERSTATE 80 BENEATH S.N. 099-8304 (RIVER ROAD).

NIGHTLY LANE CLOSURES AND MAINTENANCE OF TRAFFIC REQUIRED ON MAINLINE I-80 REQUIRED TO COMPLETE THE CONTRACT WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

REMOVE SUPERSTRUCTURE AND DECK

1. INSTALL PROTECTIVE SHIELDING UNDERNEATH EXISTING S.N. 099-0177 AT LOCATIONS SHOWN IN THE STRUCTURAL PLANS DURING THE ALLOWABLE TEMPORARY NIGHTLY LANE CLOSURES FOR INTERSTATE 80 LISTED IN THE SPECIAL PROVISIONS.
2. REMOVE THE EXISTING S.N. 099-0177 SUPERSTRUCTURE AND BRIDGE DECK AS SHOWN IN THE STRUCTURAL PLANS.

CENTER PIER

1. FILL EXISTING RUMBLE STRIPS ON EASTBOUND INTERSTATE 80 OUTSIDE SHOULDER. PAID FOR AS FILLING EXISTING RUMBLE STRIP.
2. CLOSE EASTBOUND AND WESTBOUND INSIDE SHOULDERS. EASTBOUND TRAFFIC SHIFTED TO THE OUTSIDE SHOULDERS AS SHOWN ON THE STAGE 1A MOT PLANS. TRAFFIC CONTROL WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
3. STAGE 1A WESTBOUND TEMPORARY CONCRETE BARRIER IS TO BE RELOCATED FROM PLACEMENT IN CONTRACT 62N31. THE WESTBOUND TEMPORARY CONCRETE BARRIER IS TO BE UNPINNED AND RELOCATED FROM LOCATION A TO LOCATION B AS SHOWN ON PLANS. PAID FOR AS RELOCATE TEMPORARY CONCRETE BARRIER. STAGE 1A EASTBOUND TEMPORARY CONCRETE BARRIER IS PAID FOR AS TEMPORARY CONCRETE BARRIER.
4. REMOVE EXISTING S.N. 099-0177 CENTER PIER AS SHOWN IN THE STRUCTURAL PLANS
5. PERFORM CONSTRUCTION OF PROPOSED S.N. 099-8304 CENTER PIER AS SHOWN IN THE STRUCTURAL PLANS.
6. WORK SHALL BE PERFORMED WITHIN THE STAGE 1A AND 1B WORK ZONE EXCEPT FOR NIGHTLY LANE CLOSURES AND MAINTENANCE OF TRAFFIC REQUIRED ON MAINLINE I-80 NECESSARY TO PERFORM THE BRIDGE CONSTRUCTION AND DEMOLITION.
7. STAGE 1B IS TO BE COMPLETED PRIOR TO CLOSURE OF THE OUTSIDE SHOULDERS IN STAGE 2. TEMPORARY CONCRETE BARRIER RELOCATED IN STAGE 1A IS TO BE RESTORED TO THE ORIGINAL CONFIGURATION OF CONTRACT 62N31 IN STAGE 1B AS SHOWN ON PLANS. THE TEMPORARY CONCRETE BARRIER IS TO BE RELOCATED FROM LOCATION B TO LOCATION A AND PINNED (PINNING BOTH SIDES). PAID FOR AS RELOCATE TEMPORARY CONCRETE BARRIER AND PINNING TEMPORARY CONCRETE BARRIER.

SOUTH PIER AND ABUTMENT

1. CLOSE EASTBOUND INTERSTATE 80 OUTSIDE SHOULDERS AS SHOWN ON THE STAGE 2 MOT PLANS. TRAFFIC CONTROL WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
2. REMOVE EXISTING S.N. 099-0177 SOUTH PIER AND SOUTH ABUTMENT AS SHOWN IN THE STRUCTURAL PLANS.
3. PERFORM CONSTRUCTION OF PROPOSED S.N. 099-8304 SOUTH ABUTMENT, AND SLOPEWALL AS SHOWN IN THE STRUCTURAL PLANS.
4. INSTALL CULVERT PIPE CROSSING AND APPURTANCES AT THE SOUTH ABUTMENT AS SHOWN IN THE PLANS.
5. WORK SHALL BE PERFORMED WITHIN STAGE 2 WORK ZONE EXCEPT FOR NIGHTLY LANE CLOSURES AND MAINTENANCE OF TRAFFIC REQUIRED ON MAINLINE I-80 NECESSARY TO PERFORM THE BRIDGE CONSTRUCTION AND DEMOLITION.

NORTH PIER AND ABUTMENT

1. CLOSE WESTBOUND OUTSIDE SHOULDERS AS SHOWN ON THE STAGE 2 MOT PLANS. TRAFFIC CONTROL WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
2. REMOVE EXISTING S.N. 099-0177 NORTH PIER AND NORTH ABUTMENT AS SHOWN IN THE STRUCTURAL PLANS.
3. PERFORM CONSTRUCTION OF PROPOSED S.N. 099-8304 NORTH ABUTMENT, AND SLOPEWALL AS SHOWN IN THE STRUCTURAL PLANS.
4. INSTALL CULVERT PIPE CROSSING AND APPURTANCES AT THE NORTH ABUTMENT AS SHOWN IN THE PLANS.
5. WORK SHALL BE PERFORMED WITHIN THE CONTRACT 62P71 WORK ZONE EXCEPT FOR NIGHTLY LANE CLOSURES AND MAINTENANCE OF TRAFFIC REQUIRED ON MAINLINE I-80 NECESSARY TO PERFORM THE BRIDGE CONSTRUCTION AND DEMOLITION.

ERECT BEAMS

DURING THE ALLOWABLE TEMPORARY NIGHTLY LANE CLOSURE HOURS FOR I-80 LISTED IN THE SPECIAL PROVISIONS, UTILIZE FULL STOP 15 MINUTE CLOSURES TO ERECT PROPOSED S.N. 099-08304 BEAMS AT LOCATIONS SHOWN IN THE STRUCTURAL PLANS.

RIVER ROAD

THE CONTRACTOR WILL BE RESPONSIBLE FOR STAGING, MAINTENANCE OF TRAFFIC, AND THE DETOUR OF RIVER ROAD.

A SUGGESTED SEQUENCING OF OPERATIONS HAS NOT BEEN INCLUDED FOR THE RIVER ROAD CONSTRUCTION AS A FULL ROAD CLOSURE WILL BE UTILIZED DURING CONSTRUCTION AND TRAFFIC WILL BE DETOURED AS SHOWN IN THE DETOUR PLANS.

ESTABLISHING THE DETOUR ROUTE WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

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	DRAWN -	REVISED -
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PLOT DATE = 3/21/2023	DATE -	REVISED -

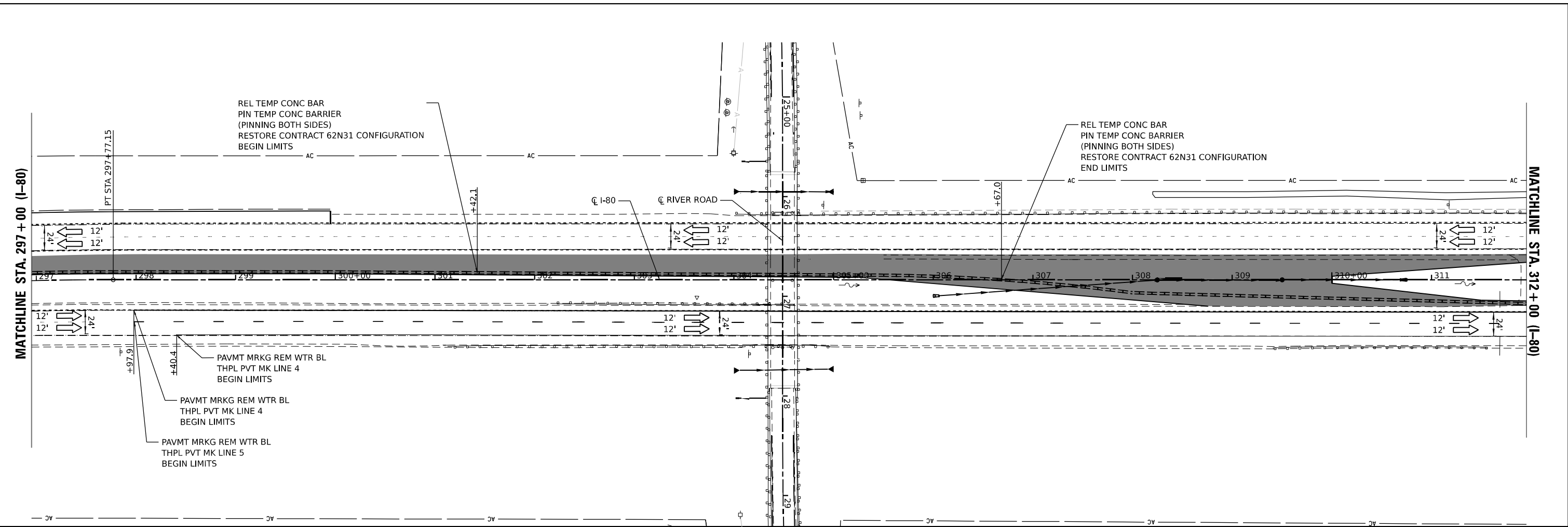
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED TRAFFIC CONTROL PLAN
GENERAL NOTES**

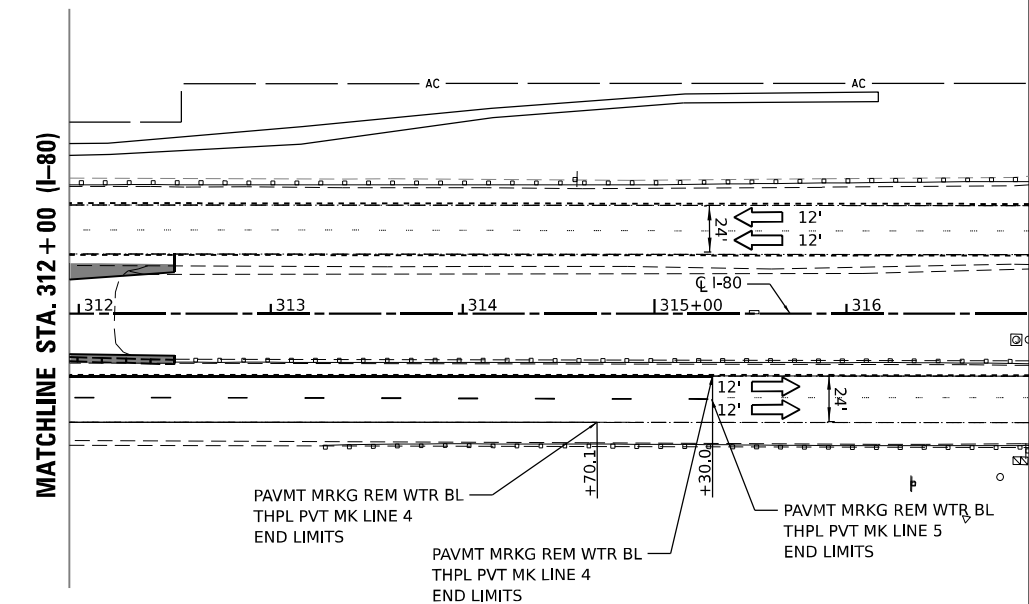
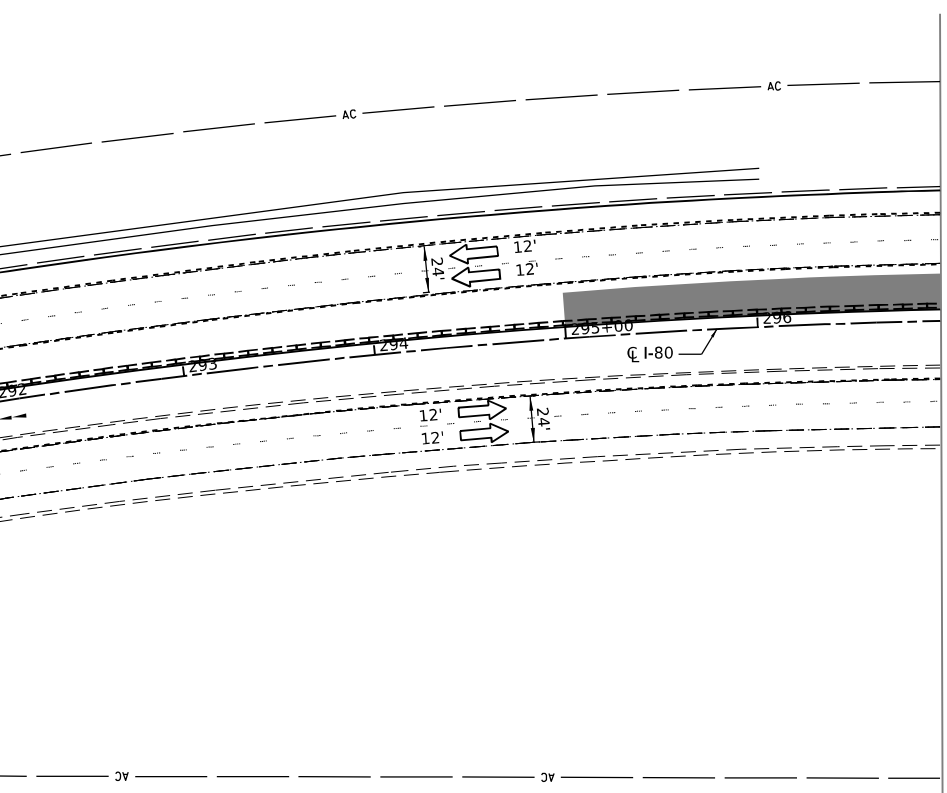
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T.W.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
		ILLINOIS	FED. AID PROJECT	

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STAGE 1B OPERATIONS (RELOCATE AND PINNING OF TEMPORARY CONCRETE BARRIER AND EB PAVEMENT MARKING)



NOTES:

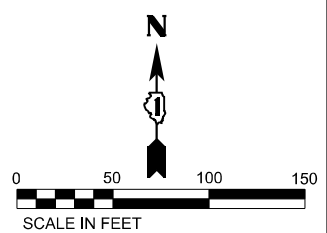
TEMPORARY CONCRETE BARRIER RELOCATED IN STAGE 1A IS TO BE RESTORED TO THE CONTRACT 62N31 CONFIGURATION AND PINNED ON BOTH SIDES OF THE TEMPORARY CONCRETE BARRIER.

TEMPORARY PAVEMENT MARKING LINES PLACED IN STAGE 1A SHALL BE REMOVED. (PAVMT MRKG REM WTR BL)

THERMOPLASTIC PAVEMENT MARKING - LINE SHALL BE USED TO RESTORE THE PERMANENT I-80 EDGE AND LANE LINES.

LEGEND

WORK ZONE	DIRECTION OF TRAVEL / MOT LANE
TEMPORARY CONCRETE BARRIER WALL	IMPACT ATTENUATOR (TEMPORARY) OF THE TYPE AND TEST LEVEL SPECIFIED
DRUMS	SIGN ON PERMANENT SUPPORT
TEMP PAVEMENT INSTALLED IN CONTRACT 62N31	



USER NAME = aericksen	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2023	CHECKED -	REVISED -
	DATE -	REVISED -

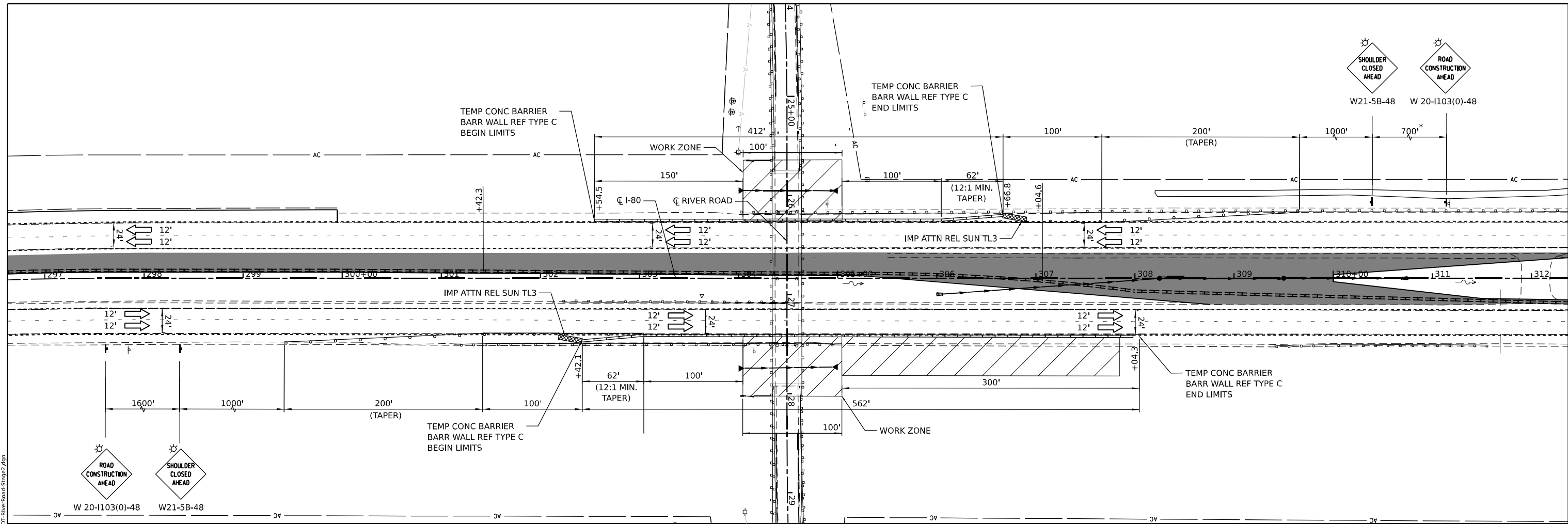
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I ROUTE 80 UNDER RIVER ROAD
SUGGESTED MAINLINE SHOULDER CLOSURES**

T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 137	SHEET NO. 16B
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

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 PROJECT: ...
 SHEET: ...



STAGE 2 OPERATIONS (EB AND WB OUTSIDE SHOULDER CLOSURE)

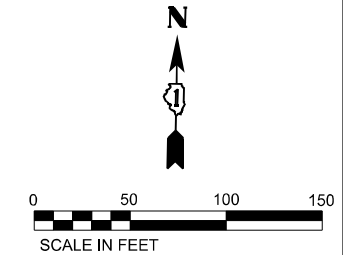
NOTES:

PLACE DRUMS AT 50' CTRS IN TAPERS AND 100' CTRS. IN TANGENTS.

* INDICATES ADVANCED SIGNNING STANDARD FOR PERMANENT SHOULDER CLOSURE (TC-17) OFFSET DISTANCE HAS BEEN CHANGED (1,600' TO 700'). THE 1,600' OFFSET FALLS WITHIN THE I-80/I-55 INTERCHANGE RAMP TAPER, THE 700' OFFSET PLACES THE SIGN AT THE END OF THE RAMP TAPER.

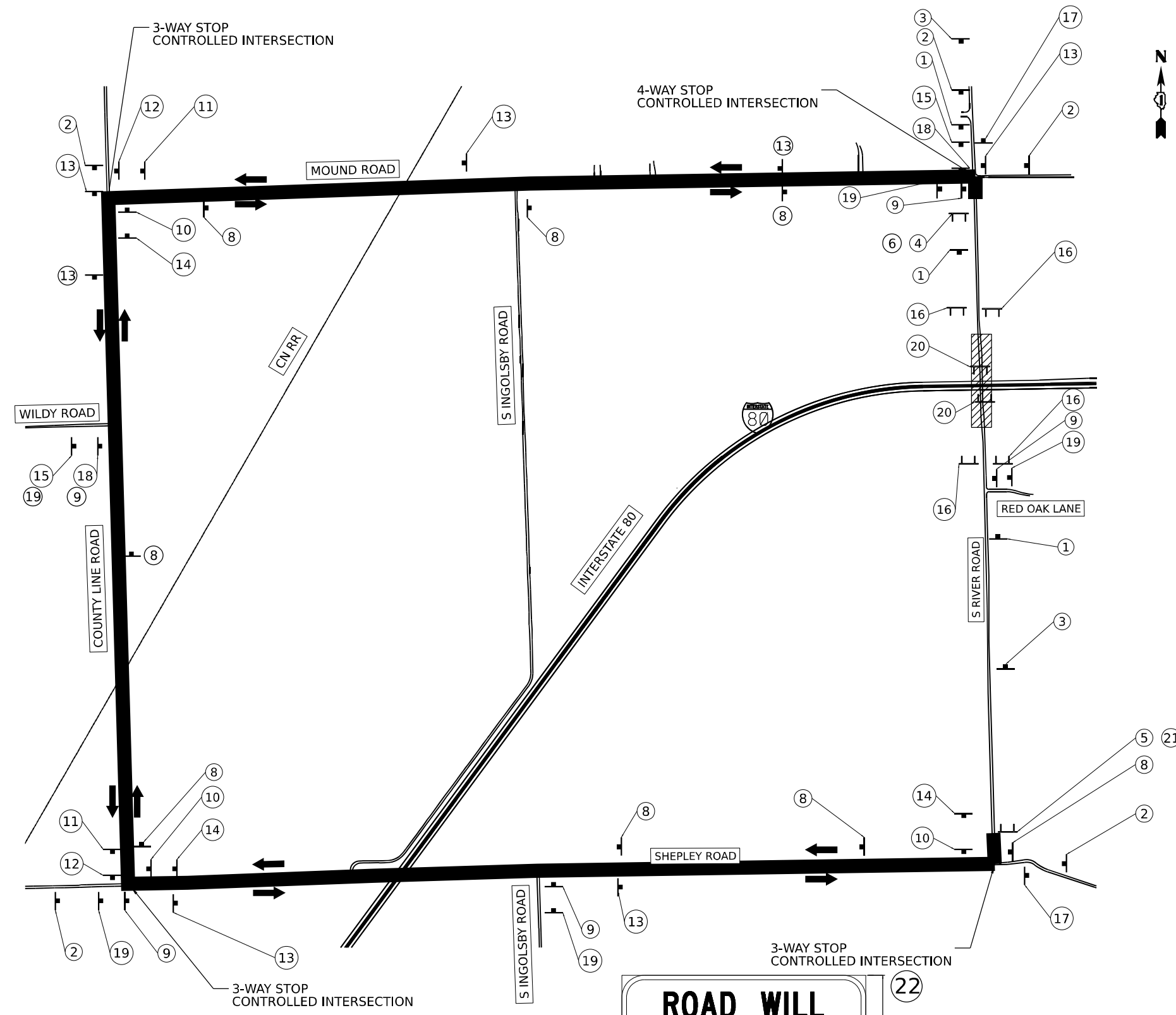
LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- DRUMS
- TEMP PAVEMENT INSTALLED IN CONTRACT 62N31
- DIRECTION OF TRAVEL / MOT LANE
- IMPACT ATTENUATOR (TEMPORARY) OF THE TYPE AND TEST LEVEL SPECIFIED
- SIGN ON PERMANENT SUPPORT



	USER NAME = aericksen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I ROUTE 80 UNDER RIVER ROAD SUGGESTED MAINLINE SHOULDER CLOSURES	T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 137	SHEET NO. 16C
	PLOT SCALE = 100,000' / in.	CHECKED -	REVISIED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62P67	
	PLOT DATE = 3/21/2023	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT						

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NOTES:

1. ALL DETOUR SIGNS SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND RIVER ROAD IS RE-OPENED TO TRAFFIC.
2. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES", "THE DETAILS OF THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE DETAILS OF THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE SPECIAL PROVISIONS FOR "TRAFFIC CONTROL AND PROTECTION (ARTERIALS) (D1)", HIGHWAY STANDARD 701901, AND THE DISTRICT DETAIL TC-10 AND TC-21.
3. A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ROAD SHALL NOT BE CLOSED UNTIL ALL DETOUR SIGNAGE IS IN PLACE.
4. ALL SIGNS SHOWN SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR, AND SHALL BE POST-MOUNTED IN THE GROUND PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS AND STANDARD 701901.
5. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.

SCHEDULE OF DETOUR SIGNS

1		W20-3-3636
2		W20-3-3636
3		W20-3-3636
4		M4-10R-4818
5		M4-10L-4818
6		R11-3b-6030
7		R11-4-6030
8		M3-4-2412 M4-8-2412 M4-9-3024
9		M3-4-2412 M4-8-2412 M4-9-3024
10		M3-4-2412 M4-8-2412 M4-9-3024
11		M3-4-2412 M4-8-2412 M4-9-3024
12		M3-4-2412 M4-8-2412 M4-9-3024
13		M3-4-2412 M4-8-2412 M4-9-3024
14		M3-4-2412 M4-8-2412 M4-9-3024
15		M3-4-2412 M4-8-2412 M4-9-3024
16		R11-2-4830
17		M4-8A
18		M3-4-2412 M4-8-2412 M4-9-3024
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20		R11-2-4830
21		R11-3B-6030

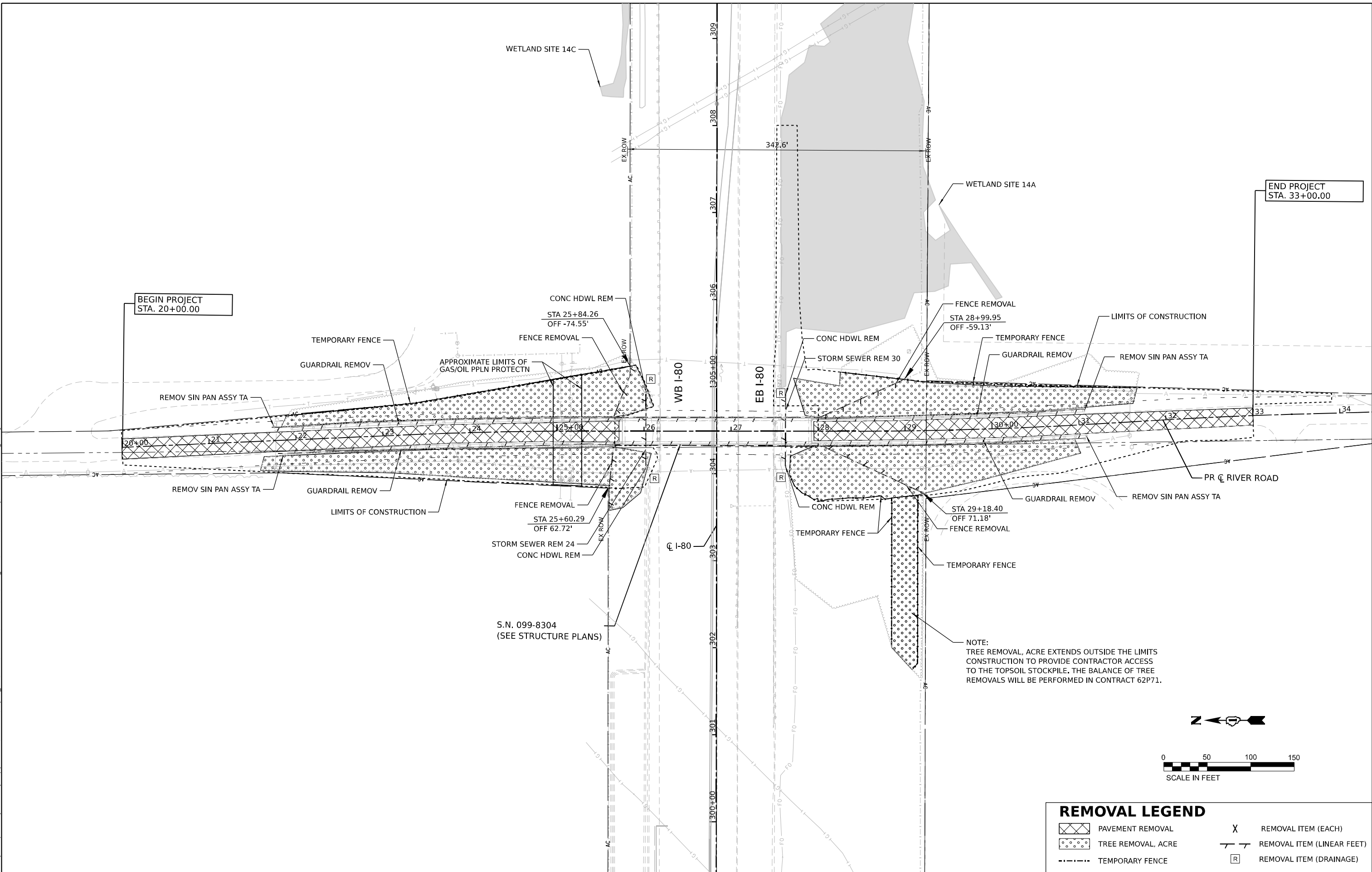
LEGEND

	SIGN POST
	TYPE III BARRICADE W/ TYPE A FLASHERS
	DETOUR ROUTE
	DIRECTION OF TRAVEL
	CONSTRUCTION ZONE

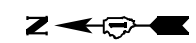


1. USE BLACK LETTERING ON ORANGE REFLECTORIZED BACKGROUND.
2. THE CONTRACTOR NEEDS TO PLACE SIGN 24 TWO WEEKS PRIOR TO THE CLOSURE.
3. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.

Model: D:\default\...
 File Name: ...
 Project: ...
 Date: 1/26/2023



NOTE:
 TREE REMOVAL, ACRE EXTENDS OUTSIDE THE LIMITS
 CONSTRUCTION TO PROVIDE CONTRACTOR ACCESS
 TO THE TOPSOIL STOCKPILE. THE BALANCE OF TREE
 REMOVALS WILL BE PERFORMED IN CONTRACT 62P71.



REMOVAL LEGEND	
	PAVEMENT REMOVAL
	TREE REMOVAL, ACRE
	TEMPORARY FENCE
	REMOVAL ITEM (EACH)
	REMOVAL ITEM (LINEAR FEET)
	REMOVAL ITEM (DRAINAGE)



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

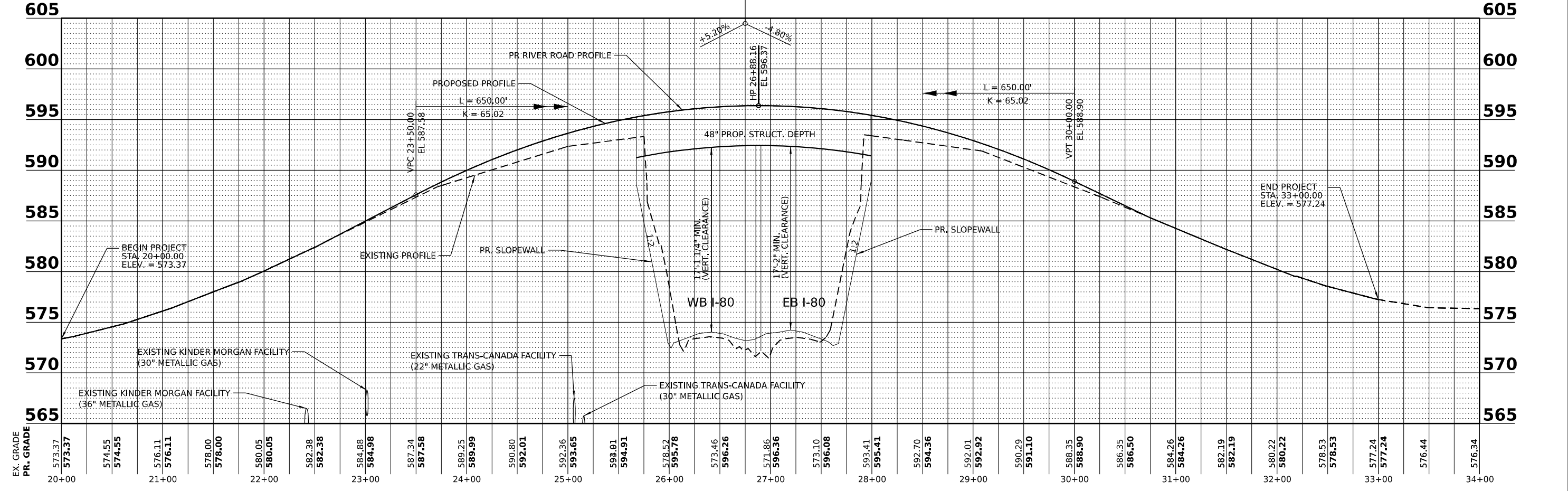
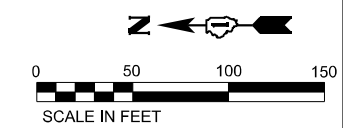
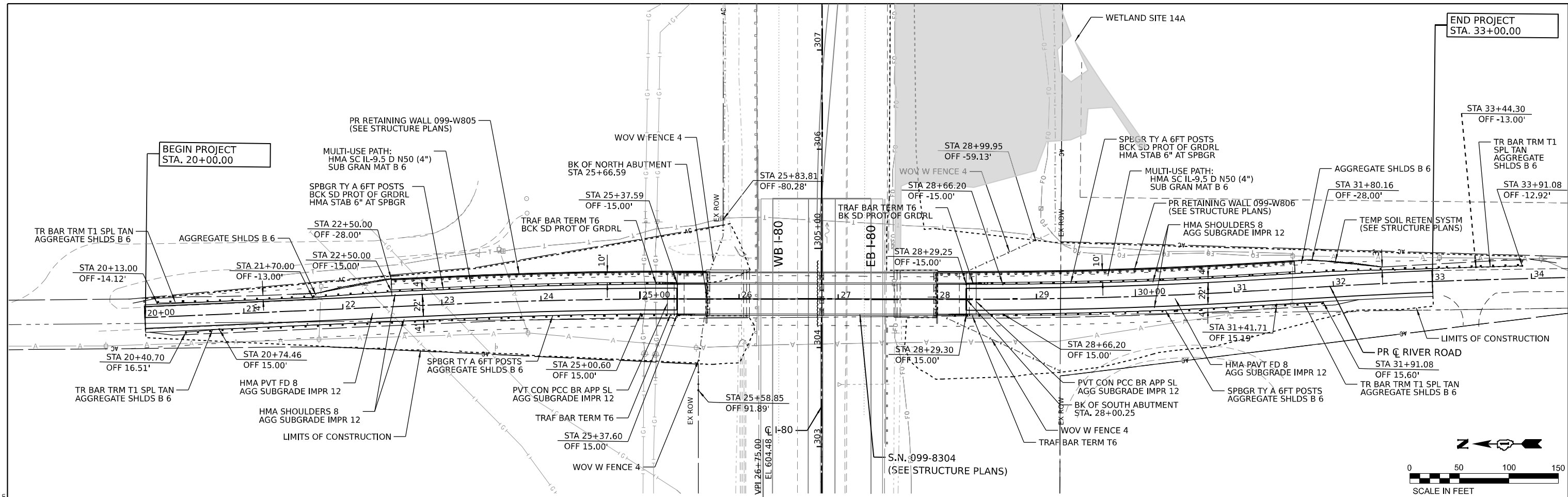
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY REMOVAL PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 18
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

MODEL: D:\default\proj\transys\comp\p1\hatched\Documents\Projects_2018\C40140118002701-Stantec\CAD\CIB\02_62P67\04-Sheets\02-Roadway\022P67-ah-Plan_V10.dgn
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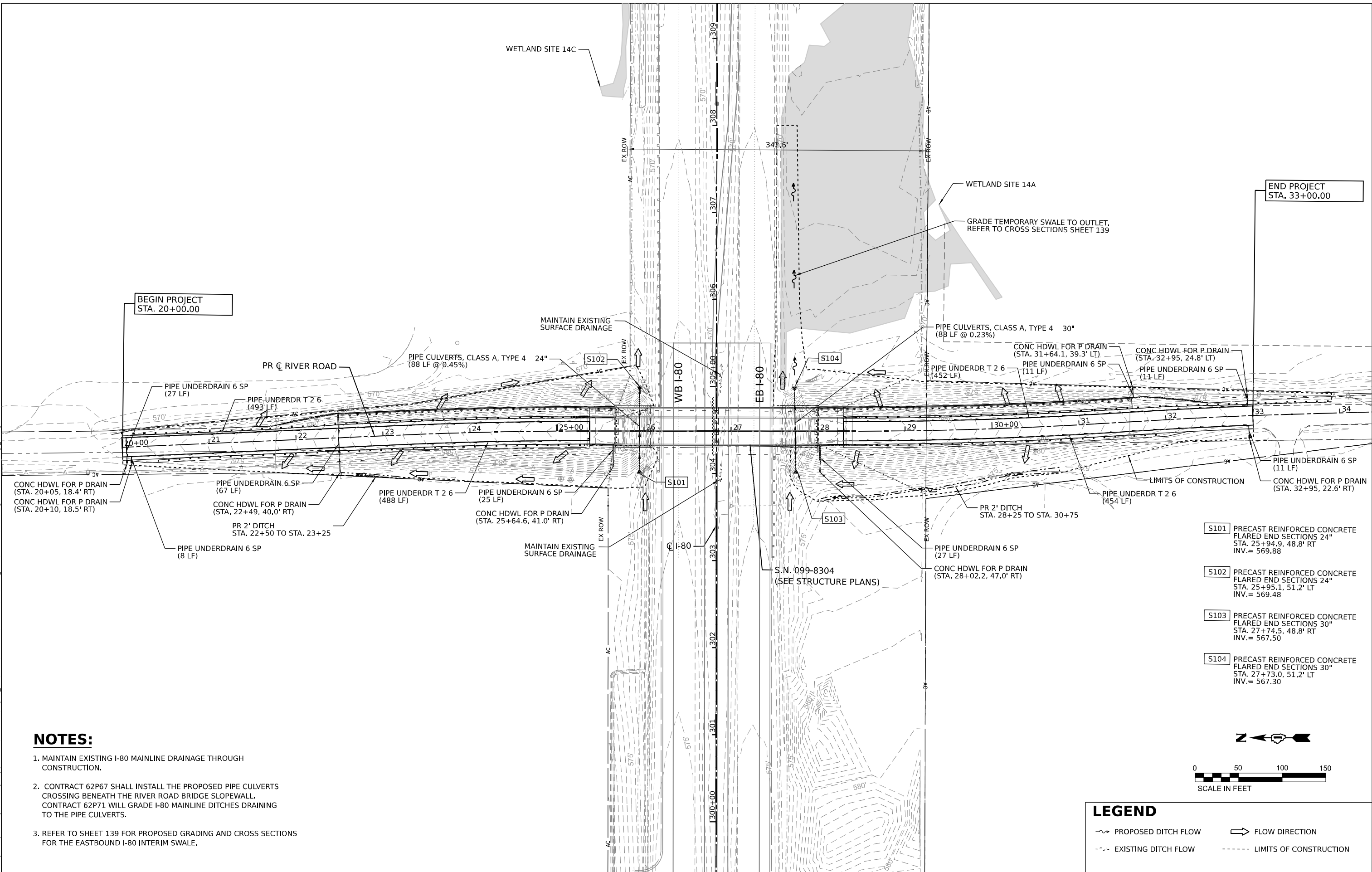
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PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE	
SCALE:	TO STA.
SHEET OF SHEETS	STA. TO STA.

T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 19
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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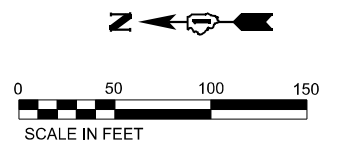
END PROJECT
STA. 33+00.00

BEGIN PROJECT
STA. 20+00.00

NOTES:

1. MAINTAIN EXISTING I-80 MAINLINE DRAINAGE THROUGH CONSTRUCTION.
2. CONTRACT 62P67 SHALL INSTALL THE PROPOSED PIPE CULVERTS CROSSING BENEATH THE RIVER ROAD BRIDGE SLOPEWALL. CONTRACT 62P71 WILL GRADE I-80 MAINLINE DITCHES DRAINING TO THE PIPE CULVERTS.
3. REFER TO SHEET 139 FOR PROPOSED GRADING AND CROSS SECTIONS FOR THE EASTBOUND I-80 INTERIM SWALE.

- S101 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" STA. 25+94.9, 48.8' RT INV.= 569.88
- S102 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" STA. 25+95.1, 51.2' LT INV.= 569.48
- S103 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" STA. 27+74.5, 48.8' RT INV.= 567.50
- S104 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" STA. 27+73.0, 51.2' LT INV.= 567.30



LEGEND

- - - - - PROPOSED DITCH FLOW
- - - - - EXISTING DITCH FLOW
- FLOW DIRECTION
- - - - - LIMITS OF CONSTRUCTION



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

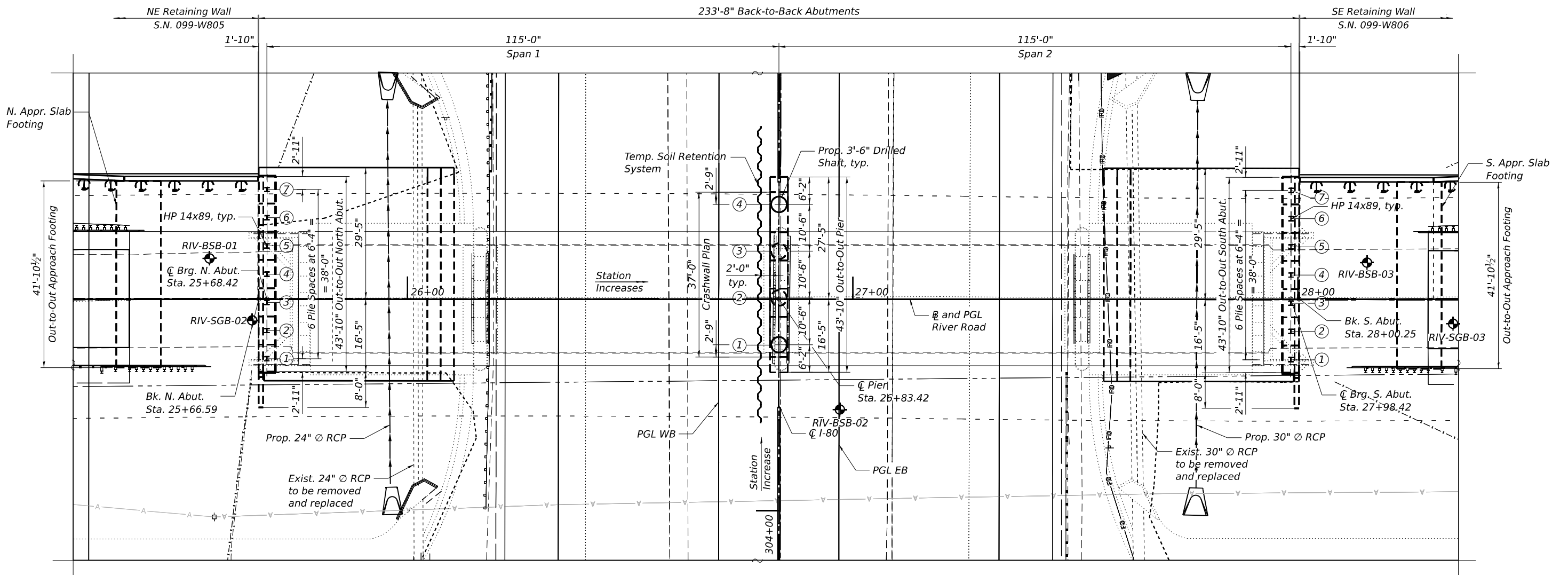
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 21
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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SUBSTRUCTURE LAYOUT

LEGEND

- Soil Boring
- Traffic Sign
- Exist. EOP / Shoulder
- Prop. EOP
- Aggregate Shoulder
- Exist. Fiber Optic
- Exist. Aerial Line
- Fence
- Exist. Guardrail
- Prop. Guardrail
- Exist. ROW
- Temporary Soil Retention System

NOTES:

1. The maximum allowable excavation slope is 1:2 (V:H) unless noted otherwise.
2. For Removal of Existing Structure, see Sheet S1-06 thru S1-09.
3. For existing approach slabs removal quantities, see Roadway plans.
4. For proposed Temporary Soil Retention System, see Sheet S1-05.
5. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the bridge. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with the bridge construction shall be abandoned or relocated according to directions given on the Civil Plans.



USER NAME =	DESIGNED - FL	REVISED -
CHECKED - MI, JJS, SK	REVISOR -	
PLOT SCALE =	DRAWN - FL	REVISED -
PLOT DATE =	CHECKED - MI, JJS, SK	REVISED -

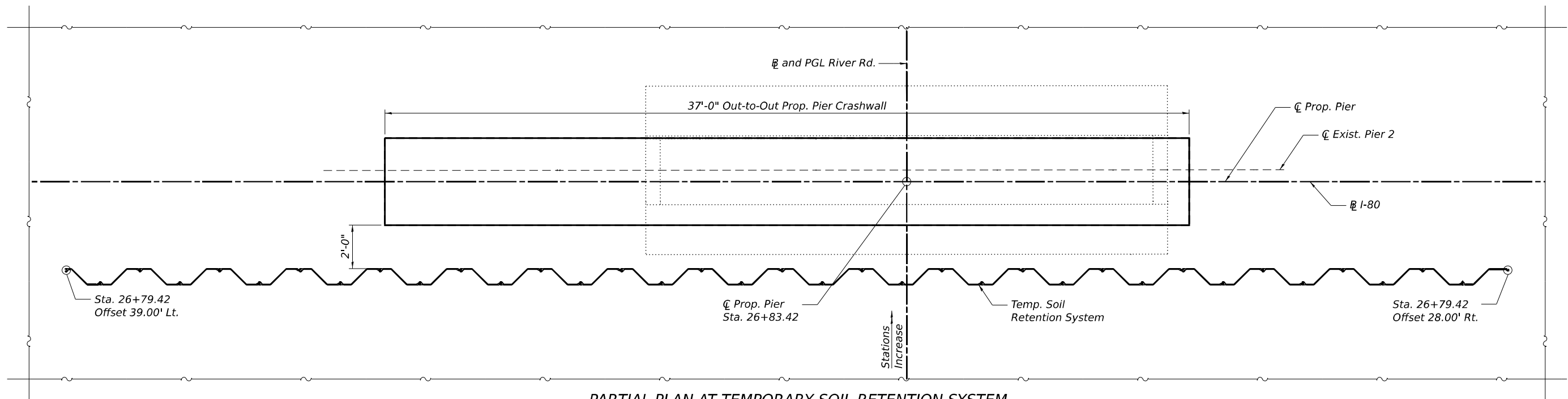
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE LAYOUT
 STRUCTURE NO. 099-8304**

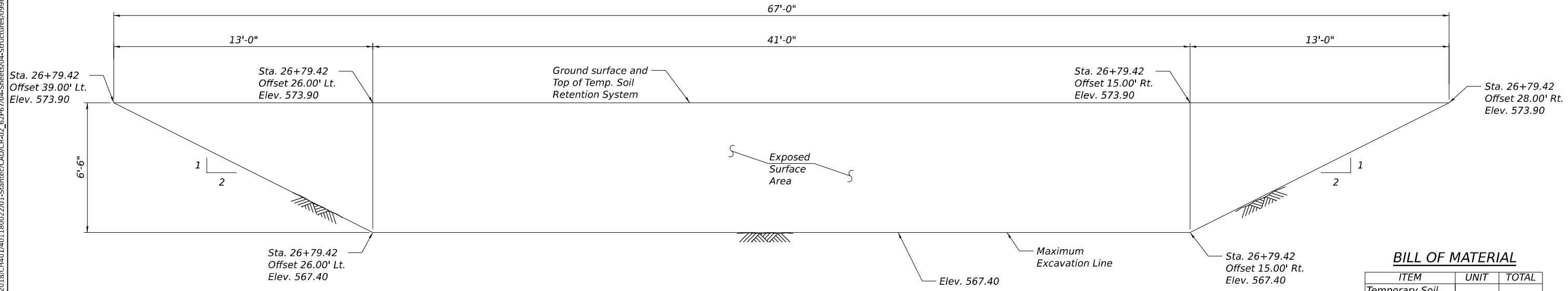
SHEET S1-04 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		

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PARTIAL PLAN AT TEMPORARY SOIL RETENTION SYSTEM



TEMPORARY SOIL RETENTION SYSTEM

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	351

NOTES:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the bridge. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with the bridge construction shall be abandoned or relocated according to the directions given on the Civil Plans.
3. The maximum allowable excavation slope is 1:2 (V:H).

LEGEND:



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PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

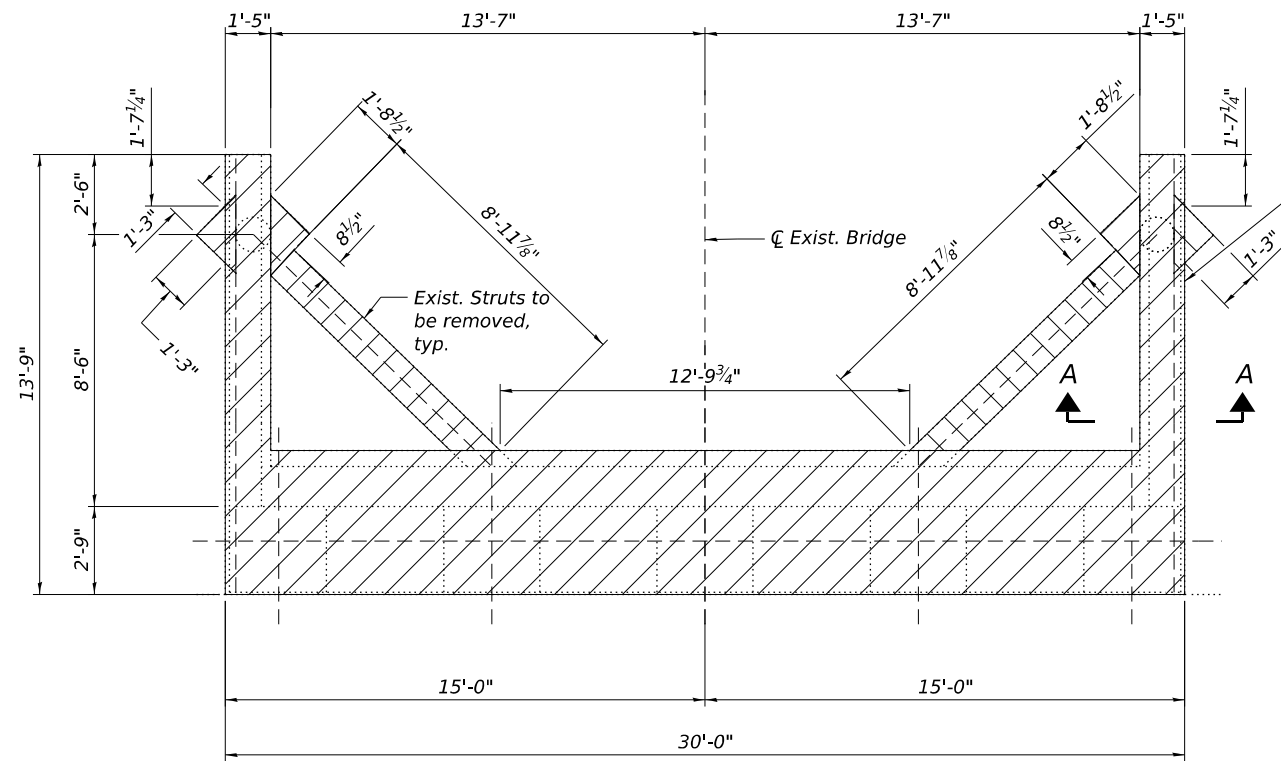
**TEMPORARY SOIL RETENTION SYSTEM DETAILS
 STRUCTURE NO. 099-8304**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				

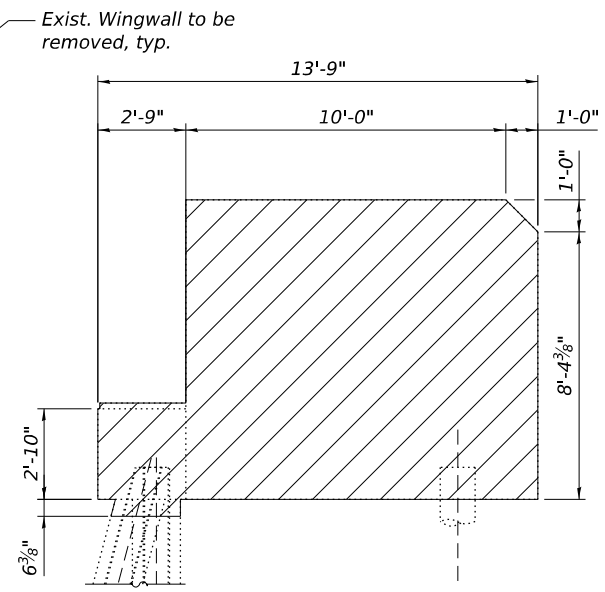
SHEET S1-05 OF S1-41 SHEETS

ILLINOIS FED. AID PROJECT

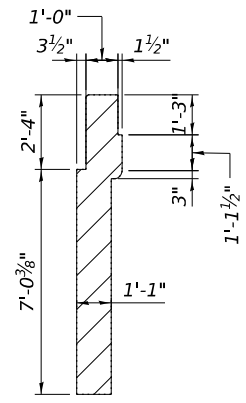
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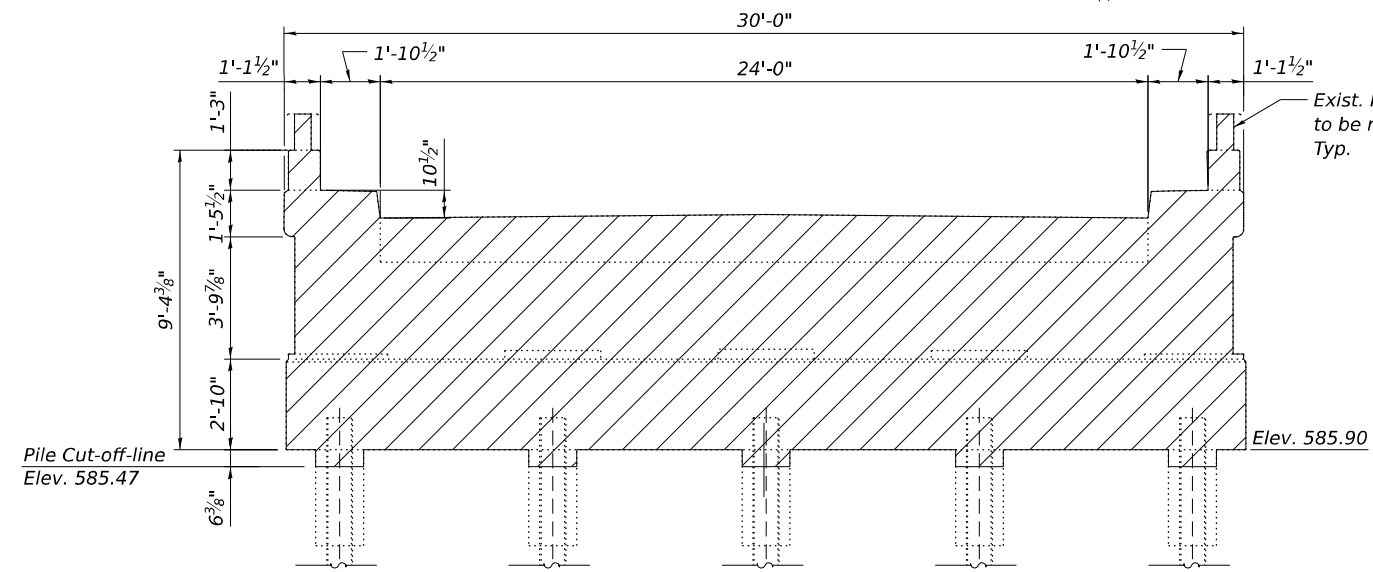
PLAN - NORTH ABUTMENT REMOVAL



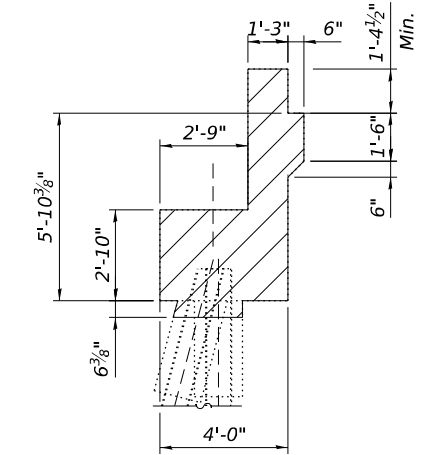
ELEVATION - TYPICAL WINGWALL REMOVAL



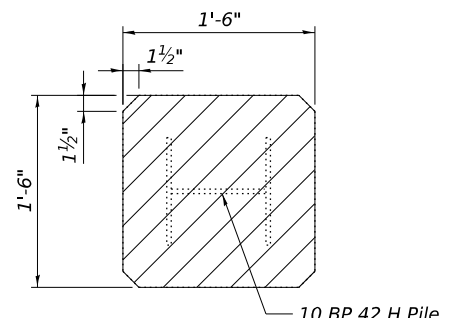
SECTION A-A



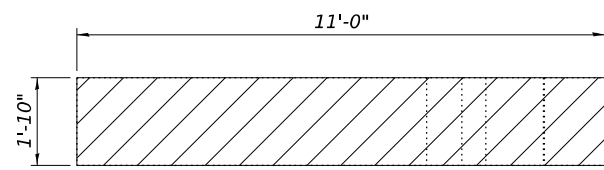
ELEVATION - NORTH ABUTMENT REMOVAL



SECTION THRU NORTH ABUTMENT



SECTION THRU PILE ENCASEMENT



SECTION THRU TIE BEAM

NOTES:

- For additional notes, see Sheet S1-06.
- Existing Creosoted Timber Piles, and Pile encasement concrete removals shall not be paid separately but shall be included in the cost of Removal of Existing Structures No. 1.

LEGEND

Removal of Existing Structures No. 1



USER NAME =	DESIGNED - FL	REVISED -
CHECKED - MI, JJS, SK	REVISED -	
PLOT SCALE =	DRAWN - FL	REVISED -
PLOT DATE =	CHECKED - MI, JJS, SK	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

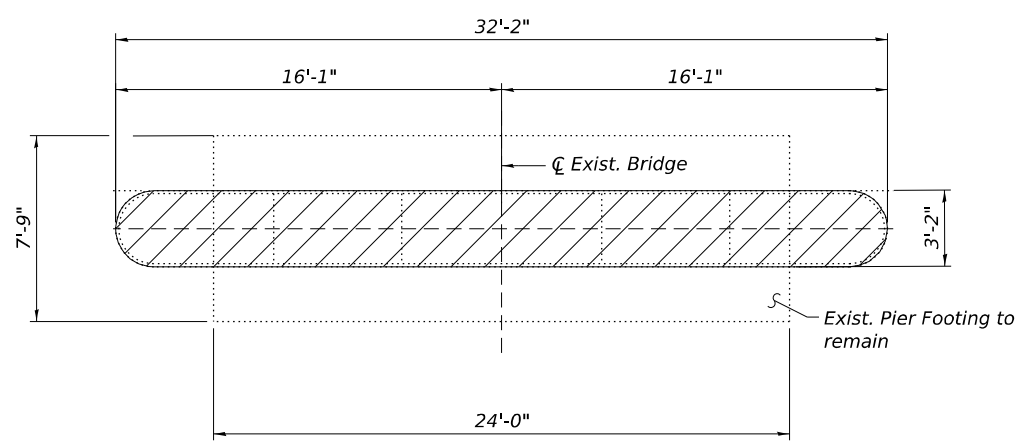
EXIST. STRUCT. REMOVAL SECTIONS & DETAILS (SHEET 1 OF 3)
 STRUCTURE NO. 099-8304

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	31
CONTRACT NO. 62P67				

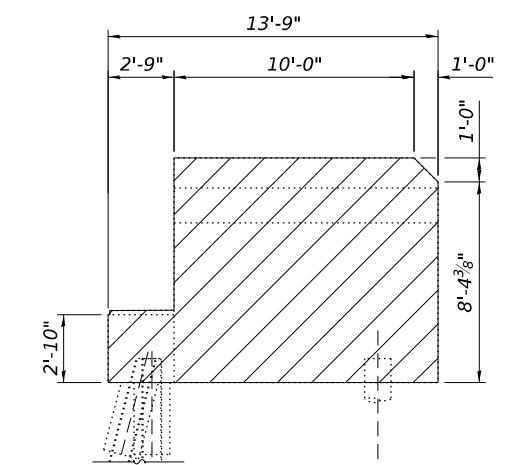
SHEET S1-07 OF S1-41 SHEETS

ILLINOIS FED. AID PROJECT

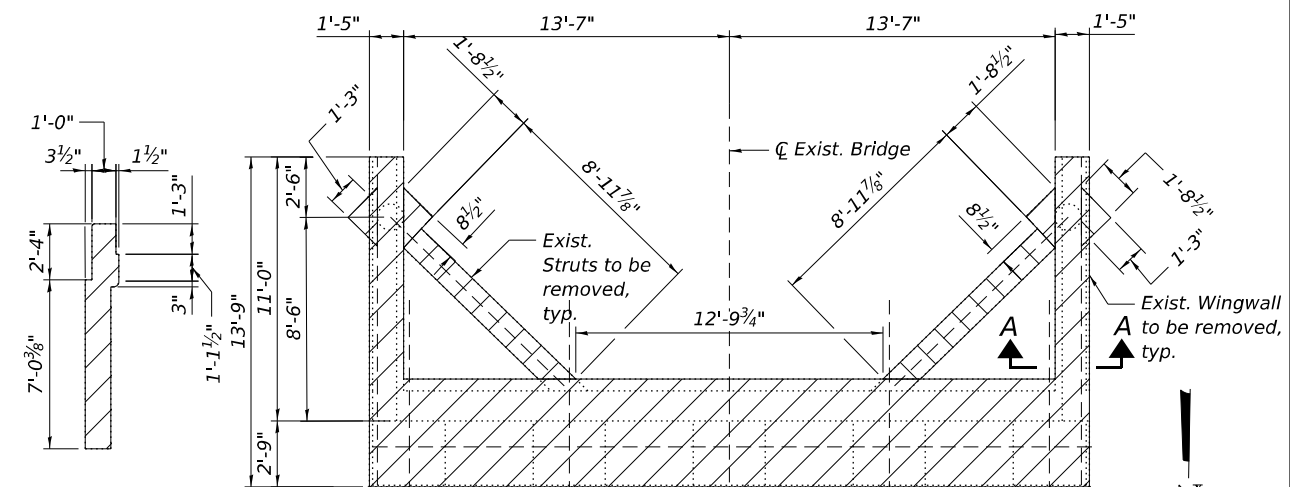
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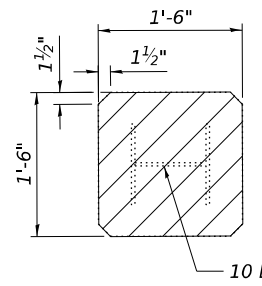
PLAN - PIER 3 REMOVAL



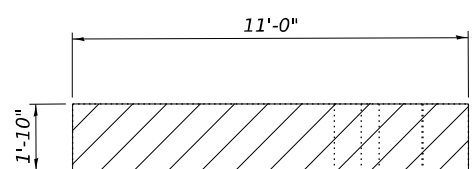
ELEVATION - TYPICAL WINGWALL REMOVAL



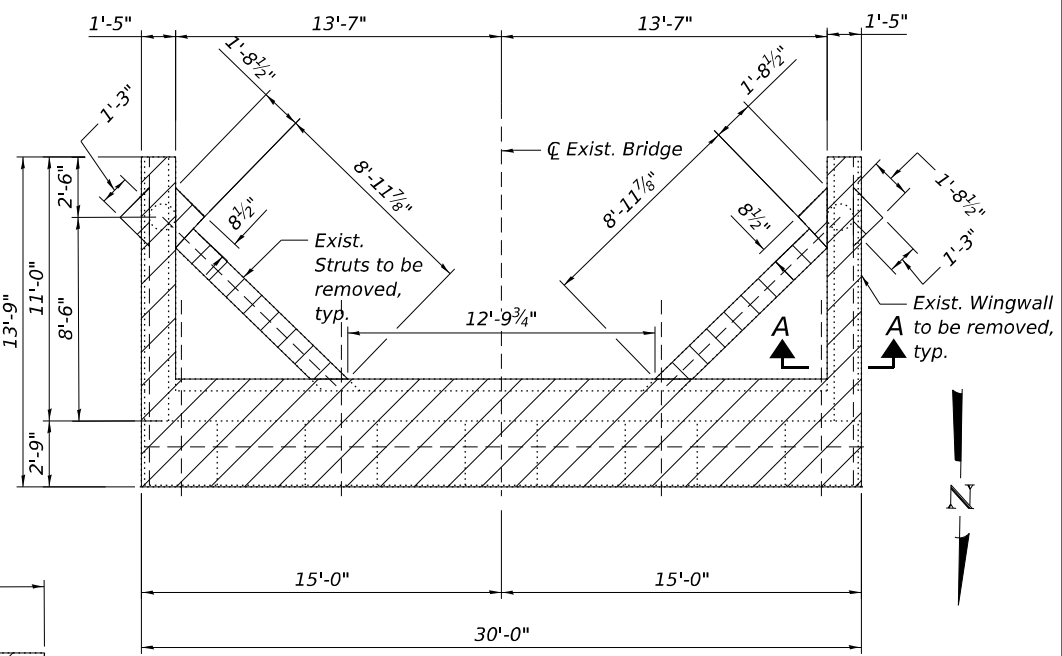
SECTION A-A



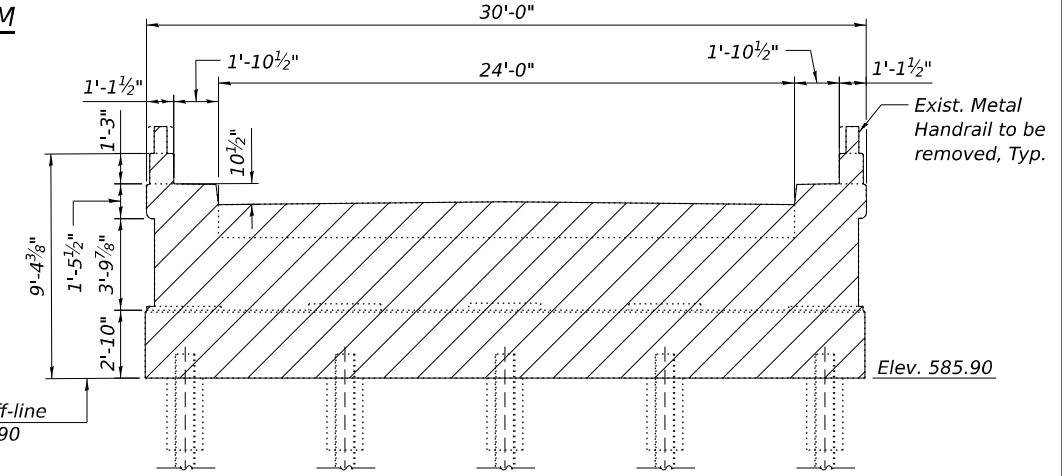
SECTION THRU PILE ENCASEMENT



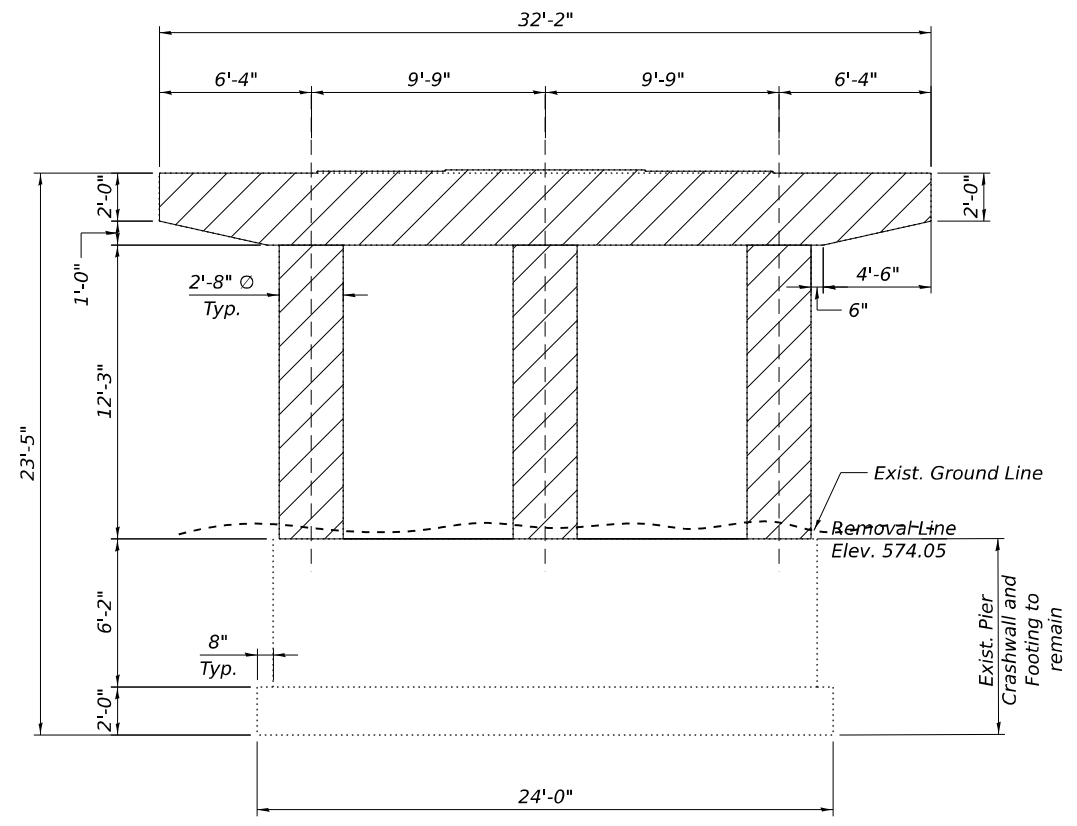
SECTION THRU TIE BEAM



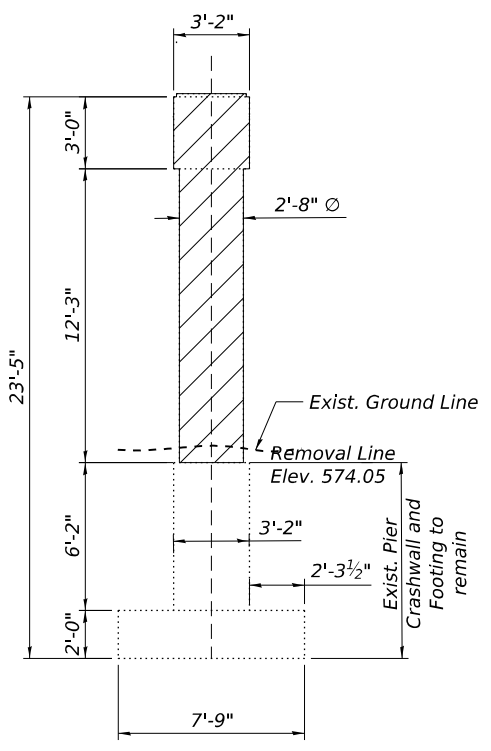
PLAN - SOUTH ABUTMENT REMOVAL



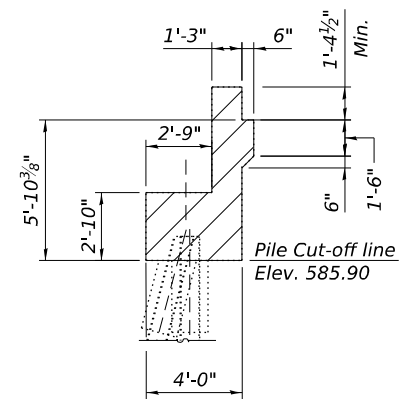
ELEVATION - SOUTH ABUTMENT REMOVAL



ELEVATION - PIER 3 REMOVAL



SIDE ELEVATION - PIER 3



SECTION THRU SOUTH ABUTMENT

NOTES:

- For additional notes, see Sheet S1-06.
- Existing Creosoted Timber Piles, Steel Pile, and Pile encasement concrete shall not be paid separately but shall be included in the cost of Removal of Existing Structures No. 1.

LEGEND



USER NAME =	DESIGNED - FL	REVISED -
PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - FL	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

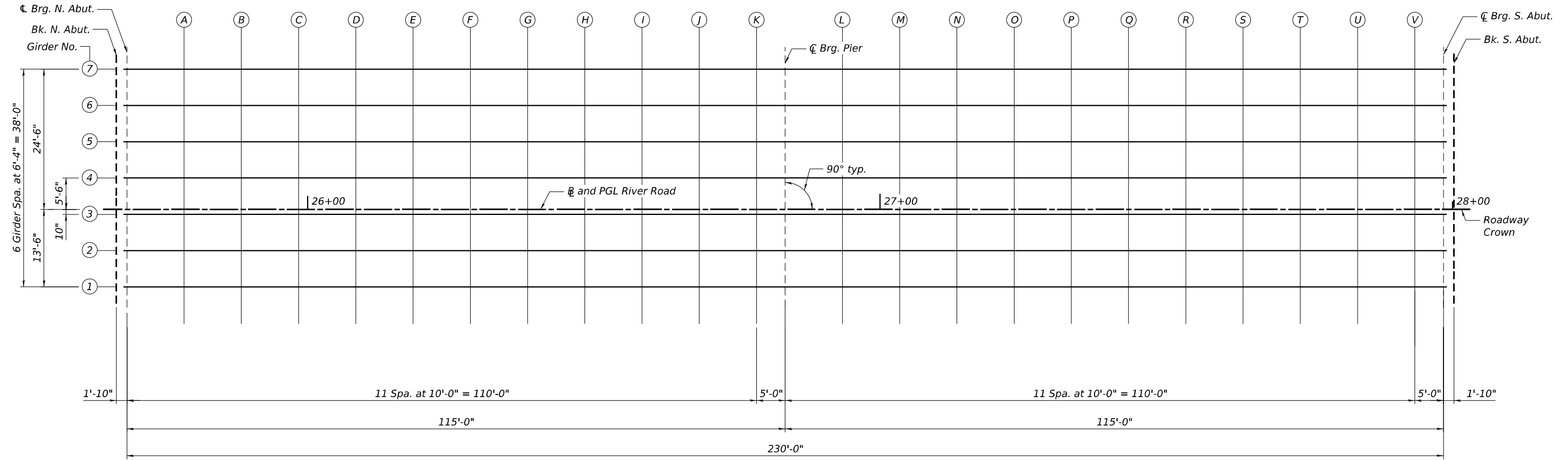
**EXIST. STRUCT. REMOVAL SECTIONS & DETAILS (SHEET 3 OF 3)
 STRUCTURE NO. 099-8304**

F.A.I. RTE. = 80	SECTION = 2021-151-B	COUNTY = WILL	TOTAL SHEETS = 139	SHEET NO. = 33
CONTRACT NO. 62P67				

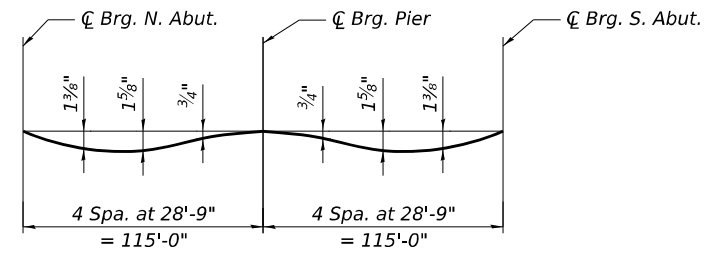
SHEET S1-09 OF S1-41 SHEETS

ILLINOIS FED. AID PROJECT

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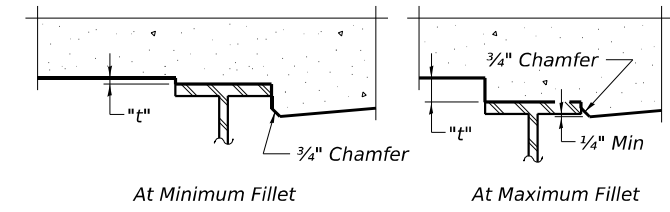
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(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 S1-11 and S1-12.



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 S1-11 and S1-12, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



USER NAME =	DESIGNED - AMS	REVISED -
PLOT SCALE =	CHECKED - MI, LAB	REVISED -
PLOT DATE =	DRAWN - AMS	REVISED -
	CHECKED - MI, LAB	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS LAYOUT
 STRUCTURE NO. 099-8304

SHEET S1-10 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	34
			CONTRACT NO. 62P67	
		ILLINOIS FED. AID PROJECT		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	13.50'	595.02	595.02
CL. BRG. N. ABUT.	25+68.42	13.50'	595.06	595.06
A	25+78.42	13.50'	595.23	595.29
B	25+88.42	13.50'	595.39	595.50
C	25+98.42	13.50'	595.54	595.67
D	26+08.42	13.50'	595.67	595.82
E	26+18.42	13.50'	595.79	595.93
F	26+28.42	13.50'	595.89	596.02
G	26+38.42	13.50'	595.97	596.08
H	26+48.42	13.50'	596.04	596.12
I	26+58.42	13.50'	596.09	596.14
J	26+68.42	13.50'	596.13	596.15
K	26+78.42	13.50'	596.15	596.15
CL. BRG. PIER	26+83.42	13.50'	596.16	596.16
L	26+93.42	13.50'	596.16	596.17
M	27+03.42	13.50'	596.14	596.18
N	27+13.42	13.50'	596.11	596.18
O	27+23.42	13.50'	596.07	596.17
P	27+33.42	13.50'	596.00	596.13
Q	27+43.42	13.50'	595.93	596.07
R	27+53.42	13.50'	595.83	595.98
S	27+63.42	13.50'	595.73	595.86
T	27+73.42	13.50'	595.60	595.71
U	27+83.42	13.50'	595.46	595.53
V	27+93.42	13.50'	595.31	595.33
CL. BRG. S. ABUT.	27+98.42	13.50'	595.23	595.23
BK. S. ABUT.	28+00.25	13.50'	595.20	595.20

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	7.17'	595.13	595.13
CL. BRG. N. ABUT.	25+68.42	7.17'	595.16	595.16
A	25+78.42	7.17'	595.34	595.40
B	25+88.42	7.17'	595.50	595.60
C	25+98.42	7.17'	595.65	595.77
D	26+08.42	7.17'	595.78	595.92
E	26+18.42	7.17'	595.89	596.03
F	26+28.42	7.17'	595.99	596.12
G	26+38.42	7.17'	596.08	596.18
H	26+48.42	7.17'	596.15	596.22
I	26+58.42	7.17'	596.20	596.24
J	26+68.42	7.17'	596.24	596.25
K	26+78.42	7.17'	596.26	596.26
CL. BRG. PIER	26+83.42	7.17'	596.27	596.27
L	26+93.42	7.17'	596.27	596.28
M	27+03.42	7.17'	596.25	596.29
N	27+13.42	7.17'	596.22	596.29
O	27+23.42	7.17'	596.17	596.27
P	27+33.42	7.17'	596.11	596.23
Q	27+43.42	7.17'	596.03	596.17
R	27+53.42	7.17'	595.94	596.08
S	27+63.42	7.17'	595.83	595.96
T	27+73.42	7.17'	595.71	595.81
U	27+83.42	7.17'	595.57	595.64
V	27+93.42	7.17'	595.42	595.43
CL. BRG. S. ABUT.	27+98.42	7.17'	595.34	595.34
BK. S. ABUT.	28+00.25	7.17'	595.30	595.30

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	0.83'	595.23	595.23
CL. BRG. N. ABUT.	25+68.42	0.83'	595.26	595.26
A	25+78.42	0.83'	595.44	595.49
B	25+88.42	0.83'	595.60	595.69
C	25+98.42	0.83'	595.74	595.86
D	26+08.42	0.83'	595.87	596.01
E	26+18.42	0.83'	595.99	596.12
F	26+28.42	0.83'	596.09	596.21
G	26+38.42	0.83'	596.17	596.27
H	26+48.42	0.83'	596.24	596.31
I	26+58.42	0.83'	596.29	596.34
J	26+68.42	0.83'	596.33	596.35
K	26+78.42	0.83'	596.36	596.36
CL. BRG. PIER	26+83.42	0.83'	596.36	596.36
L	26+93.42	0.83'	596.36	596.37
M	27+03.42	0.83'	596.35	596.38
N	27+13.42	0.83'	596.31	596.38
O	27+23.42	0.83'	596.27	596.36
P	27+33.42	0.83'	596.21	596.33
Q	27+43.42	0.83'	596.13	596.26
R	27+53.42	0.83'	596.04	596.17
S	27+63.42	0.83'	595.93	596.05
T	27+73.42	0.83'	595.81	595.90
U	27+83.42	0.83'	595.67	595.73
V	27+93.42	0.83'	595.51	595.53
CL. BRG. S. ABUT.	27+98.42	0.83'	595.43	595.43
BK. S. ABUT.	28+00.25	0.83'	595.40	595.40

B AND PGL RIVER ROAD

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	0.00'	595.24	595.24
CL. BRG. N. ABUT.	25+68.42	0.00'	595.27	595.27
A	25+78.42	0.00'	595.45	595.50
B	25+88.42	0.00'	595.61	595.70
C	25+98.42	0.00'	595.76	595.88
D	26+08.42	0.00'	595.89	596.02
E	26+18.42	0.00'	596.00	596.14
F	26+28.42	0.00'	596.10	596.22
G	26+38.42	0.00'	596.18	596.29
H	26+48.42	0.00'	596.25	596.33
I	26+58.42	0.00'	596.31	596.35
J	26+68.42	0.00'	596.35	596.36
K	26+78.42	0.00'	596.37	596.37
CL. BRG. PIER	26+83.42	0.00'	596.37	596.37
L	26+93.42	0.00'	596.37	596.38
M	27+03.42	0.00'	596.36	596.39
N	27+13.42	0.00'	596.33	596.39
O	27+23.42	0.00'	596.28	596.38
P	27+33.42	0.00'	596.22	596.34
Q	27+43.42	0.00'	596.14	596.28
R	27+53.42	0.00'	596.05	596.19
S	27+63.42	0.00'	595.94	596.07
T	27+73.42	0.00'	595.82	595.92
U	27+83.42	0.00'	595.68	595.74
V	27+93.42	0.00'	595.53	595.54
CL. BRG. S. ABUT.	27+98.42	0.00'	595.44	595.44
BK. S. ABUT.	28+00.25	0.00'	595.41	595.41

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	-5.50'	595.16	595.16
CL. BRG. N. ABUT.	25+68.42	-5.50'	595.19	595.19
A	25+78.42	-5.50'	595.37	595.42
B	25+88.42	-5.50'	595.53	595.62
C	25+98.42	-5.50'	595.67	595.79
D	26+08.42	-5.50'	595.80	595.94
E	26+18.42	-5.50'	595.92	596.05
F	26+28.42	-5.50'	596.02	596.14
G	26+38.42	-5.50'	596.10	596.20
H	26+48.42	-5.50'	596.17	596.24
I	26+58.42	-5.50'	596.22	596.27
J	26+68.42	-5.50'	596.26	596.28
K	26+78.42	-5.50'	596.29	596.29
CL. BRG. PIER	26+83.42	-5.50'	596.29	596.29
L	26+93.42	-5.50'	596.29	596.30
M	27+03.42	-5.50'	596.28	596.31
N	27+13.42	-5.50'	596.24	596.31
O	27+23.42	-5.50'	596.20	596.29
P	27+33.42	-5.50'	596.14	596.26
Q	27+43.42	-5.50'	596.06	596.19
R	27+53.42	-5.50'	595.97	596.10
S	27+63.42	-5.50'	595.86	595.98
T	27+73.42	-5.50'	595.74	595.83
U	27+83.42	-5.50'	595.60	595.66
V	27+93.42	-5.50'	595.44	595.46
CL. BRG. S. ABUT.	27+98.42	-5.50'	595.36	595.36
BK. S. ABUT.	28+00.25	-5.50'	595.33	595.33

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USER NAME =	DESIGNED - AMS	REVISED -
PLOT SCALE =	CHECKED - MI, LAB	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS (SHEET 1 OF 2)
STRUCTURE NO. 099-8304**

SHEET S1-11 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	35
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	-11.83'	595.06	595.06
CL. BRG. N. ABUT.	25+68.42	-11.83'	595.09	595.09
A	25+78.42	-11.83'	595.27	595.32
B	25+88.42	-11.83'	595.43	595.53
C	25+98.42	-11.83'	595.57	595.70
D	26+08.42	-11.83'	595.70	595.84
E	26+18.42	-11.83'	595.82	595.96
F	26+28.42	-11.83'	595.92	596.05
G	26+38.42	-11.83'	596.00	596.11
H	26+48.42	-11.83'	596.07	596.15
I	26+58.42	-11.83'	596.13	596.17
J	26+68.42	-11.83'	596.16	596.18
K	26+78.42	-11.83'	596.19	596.19
CL. BRG. PIER	26+83.42	-11.83'	596.19	596.19
L	26+93.42	-11.83'	596.19	596.20
M	27+03.42	-11.83'	596.18	596.21
N	27+13.42	-11.83'	596.15	596.21
O	27+23.42	-11.83'	596.10	596.20
P	27+33.42	-11.83'	596.04	596.16
Q	27+43.42	-11.83'	595.96	596.10
R	27+53.42	-11.83'	595.87	596.01
S	27+63.42	-11.83'	595.76	595.89
T	27+73.42	-11.83'	595.64	595.74
U	27+83.42	-11.83'	595.50	595.56
V	27+93.42	-11.83'	595.34	595.36
CL. BRG. S. ABUT.	27+98.42	-11.83'	595.26	595.26
BK. S. ABUT.	28+00.25	-11.83'	595.23	595.23

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	-18.17'	594.93	594.93
CL. BRG. N. ABUT.	25+68.42	-18.17'	594.96	594.96
A	25+78.42	-18.17'	595.14	595.20
B	25+88.42	-18.17'	595.30	595.40
C	25+98.42	-18.17'	595.45	595.58
D	26+08.42	-18.17'	595.58	595.72
E	26+18.42	-18.17'	595.69	595.84
F	26+28.42	-18.17'	595.79	595.92
G	26+38.42	-18.17'	595.88	595.99
H	26+48.42	-18.17'	595.95	596.02
I	26+58.42	-18.17'	596.00	596.04
J	26+68.42	-18.17'	596.04	596.05
K	26+78.42	-18.17'	596.06	596.06
CL. BRG. PIER	26+83.42	-18.17'	596.07	596.07
L	26+93.42	-18.17'	596.07	596.08
M	27+03.42	-18.17'	596.05	596.09
N	27+13.42	-18.17'	596.02	596.09
O	27+23.42	-18.17'	595.97	596.07
P	27+33.42	-18.17'	595.91	596.04
Q	27+43.42	-18.17'	595.83	595.98
R	27+53.42	-18.17'	595.74	595.89
S	27+63.42	-18.17'	595.63	595.77
T	27+73.42	-18.17'	595.51	595.62
U	27+83.42	-18.17'	595.37	595.44
V	27+93.42	-18.17'	595.22	595.23
CL. BRG. S. ABUT.	27+98.42	-18.17'	595.13	595.13
BK. S. ABUT.	28+00.25	-18.17'	595.10	595.10

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	25+66.59	-24.50'	594.80	594.80
CL. BRG. N. ABUT.	25+68.42	-24.50'	594.84	594.84
A	25+78.42	-24.50'	595.01	595.08
B	25+88.42	-24.50'	595.17	595.28
C	25+98.42	-24.50'	595.32	595.46
D	26+08.42	-24.50'	595.45	595.60
E	26+18.42	-24.50'	595.57	595.72
F	26+28.42	-24.50'	595.67	595.80
G	26+38.42	-24.50'	595.75	595.86
H	26+48.42	-24.50'	595.82	595.90
I	26+58.42	-24.50'	595.87	595.92
J	26+68.42	-24.50'	595.91	595.93
K	26+78.42	-24.50'	595.93	595.93
CL. BRG. PIER	26+83.42	-24.50'	595.94	595.94
L	26+93.42	-24.50'	595.94	595.95
M	27+03.42	-24.50'	595.92	595.96
N	27+13.42	-24.50'	595.89	595.97
O	27+23.42	-24.50'	595.85	595.95
P	27+33.42	-24.50'	595.78	595.92
Q	27+43.42	-24.50'	595.71	595.86
R	27+53.42	-24.50'	595.61	595.76
S	27+63.42	-24.50'	595.51	595.64
T	27+73.42	-24.50'	595.38	595.49
U	27+83.42	-24.50'	595.24	595.31
V	27+93.42	-24.50'	595.09	595.11
CL. BRG. S. ABUT.	27+98.42	-24.50'	595.01	595.01
BK. S. ABUT.	28+00.25	-24.50'	594.98	594.98

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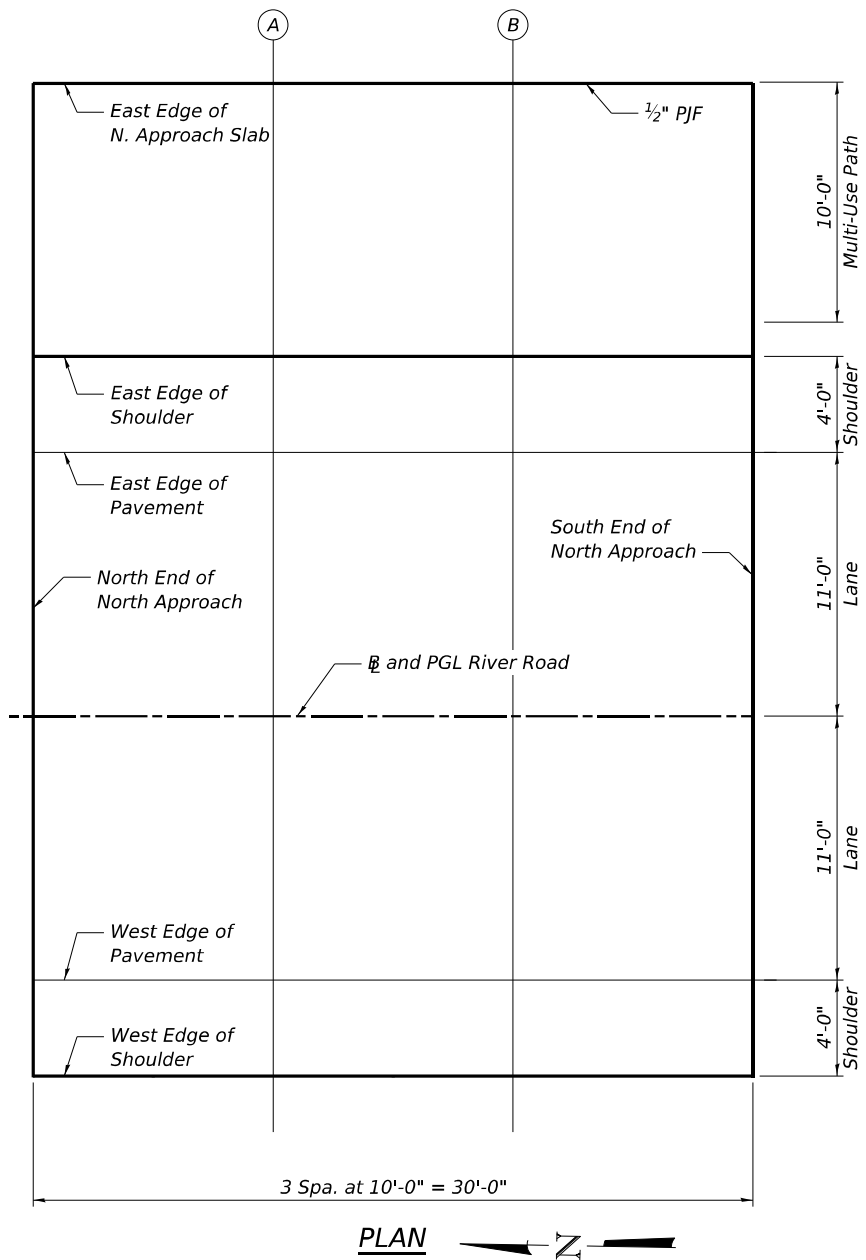
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS (SHEET 2 OF 2)
 STRUCTURE NO. 099-8304**

SHEET S1-12 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	36
CONTRACT NO. 62P67				
		ILLINOIS	FED. AID PROJECT	

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PLAN

WEST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of N. Approach	25+37.59	15.00'	594.39
A	25+47.59	15.00'	594.61
B	25+57.59	15.00'	594.82
S. End of N. Approach	25+67.59	15.00'	595.01

WEST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of N. Approach	25+37.59	11.00'	594.47
A	25+47.59	11.00'	594.69
B	25+57.59	11.00'	594.90
S. End of N. Approach	25+67.59	11.00'	595.09

B AND PGL RIVER ROAD

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of N. Approach	25+37.59	0.00'	594.63
A	25+47.59	0.00'	594.85
B	25+57.59	0.00'	595.06
S. End of N. Approach	25+67.59	0.00'	595.26

EAST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of N. Approach	25+37.59	-11.00'	594.47
A	25+47.59	-11.00'	594.69
B	25+57.59	-11.00'	594.90
S. End of N. Approach	25+67.59	-11.00'	595.09

EAST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of N. Approach	25+37.59	-15.00'	594.39
A	25+47.59	-15.00'	594.61
B	25+57.59	-15.00'	594.82
S. End of N. Approach	25+67.59	-15.00'	595.01

EAST EDGE OF NORTH APPROACH SLAB

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of N. Approach	25+37.59	-26.42'	594.16
A	25+47.59	-26.42'	594.38
B	25+57.59	-26.42'	594.59
S. End of N. Approach	25+67.59	-26.42'	594.78



USER NAME =	DESIGNED - AMS	REVISED -
	CHECKED - MI, LAB	REVISED -
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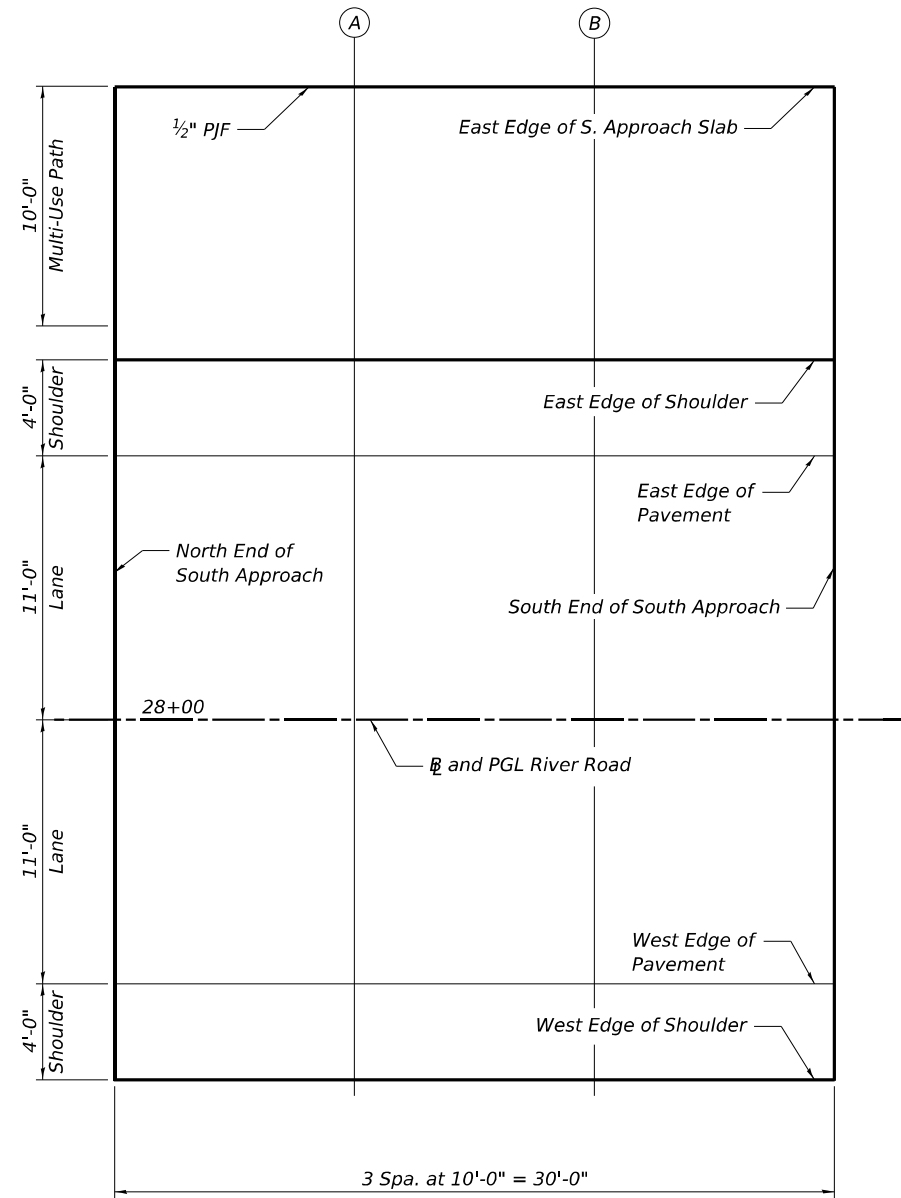
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF N. APPROACH SLAB LAYOUT & TABLES
 STRUCTURE NO. 099-8304**

SHEET S1-13 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P67	

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WEST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of S. Approach	27+99.25	15.00'	595.18
A	28+09.25	15.00'	595.01
B	28+19.25	15.00'	594.81
S. End of S. Approach	28+29.25	15.00'	594.60

WEST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of S. Approach	27+99.25	11.00'	595.26
A	28+09.25	11.00'	595.09
B	28+19.25	11.00'	594.89
S. End of S. Approach	28+29.25	11.00'	594.68

B AND PGL RIVER ROAD

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of S. Approach	27+99.25	0.00'	595.43
A	28+09.25	0.00'	595.25
B	28+19.25	0.00'	595.06
S. End of S. Approach	28+29.25	0.00'	594.85

EAST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of S. Approach	27+99.25	-11.00'	595.26
A	28+09.25	-11.00'	595.09
B	28+19.25	-11.00'	594.89
S. End of S. Approach	28+29.25	-11.00'	594.68

EAST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of S. Approach	27+99.25	-15.00'	595.18
A	28+09.25	-15.00'	595.01
B	28+19.25	-15.00'	594.81
S. End of S. Approach	28+29.25	-15.00'	594.60

EAST EDGE OF SOUTH APPROACH SLAB

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
N. End of S. Approach	27+99.25	-26.42'	594.96
A	28+09.25	-26.42'	594.78
B	28+19.25	-26.42'	594.58
S. End of S. Approach	28+29.25	-26.42'	594.37



USER NAME =	DESIGNED - AMS	REVISED -
	CHECKED - MI, LAB	REVISED -
PLOT SCALE =	DRAWN - AMS	REVISED -
PLOT DATE =	CHECKED - MI, LAB	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

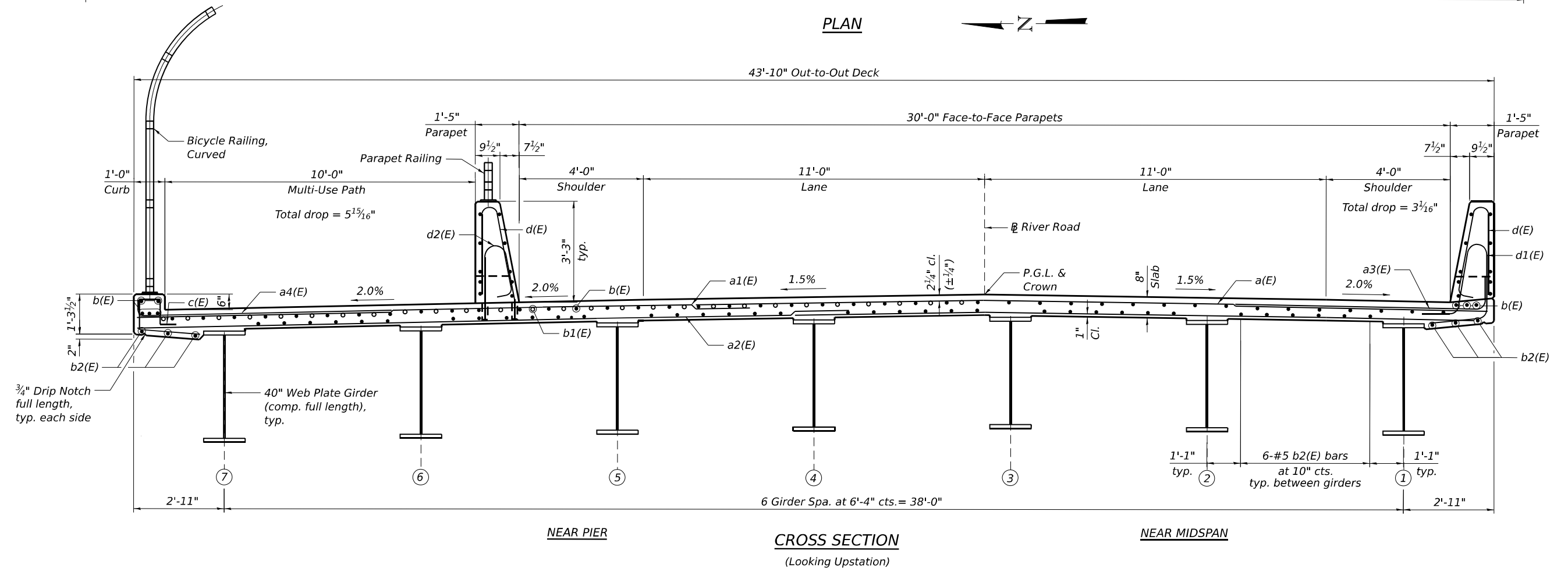
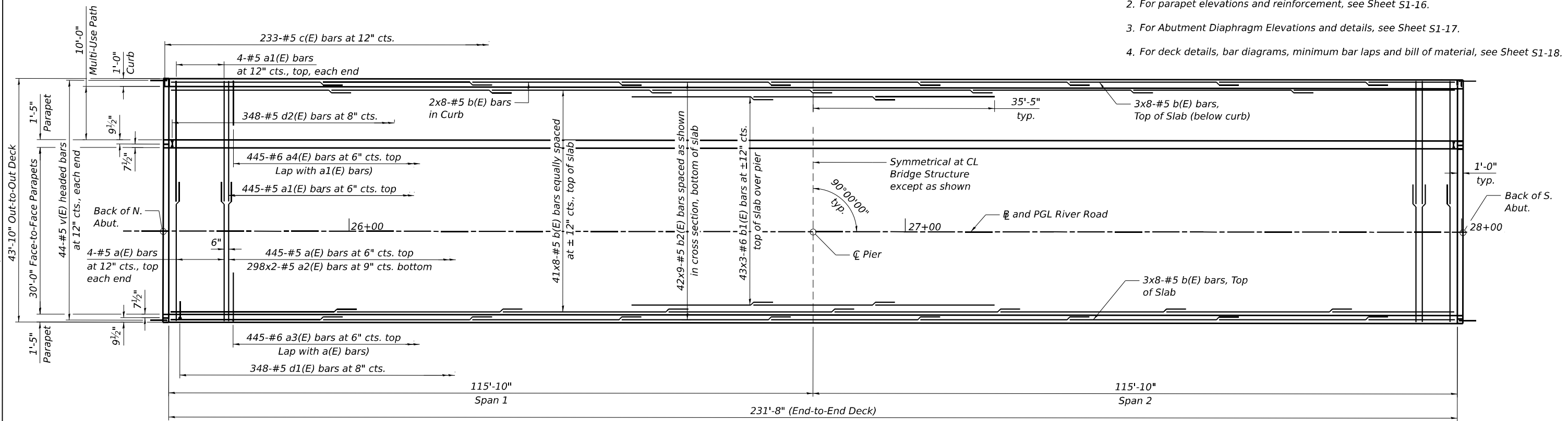
TOP OF S. APPROACH SLAB LAYOUT & TABLES
 STRUCTURE NO. 099-8304

SHEET S1-14 OF 51-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	38
CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		

NOTES:

1. Bars indicated thus 42 x 9 - #5 etc. indicates 42 lines of bars with 9 lengths per line.
2. For parapet elevations and reinforcement, see Sheet S1-16.
3. For Abutment Diaphragm Elevations and details, see Sheet S1-17.
4. For deck details, bar diagrams, minimum bar laps and bill of material, see Sheet S1-18.



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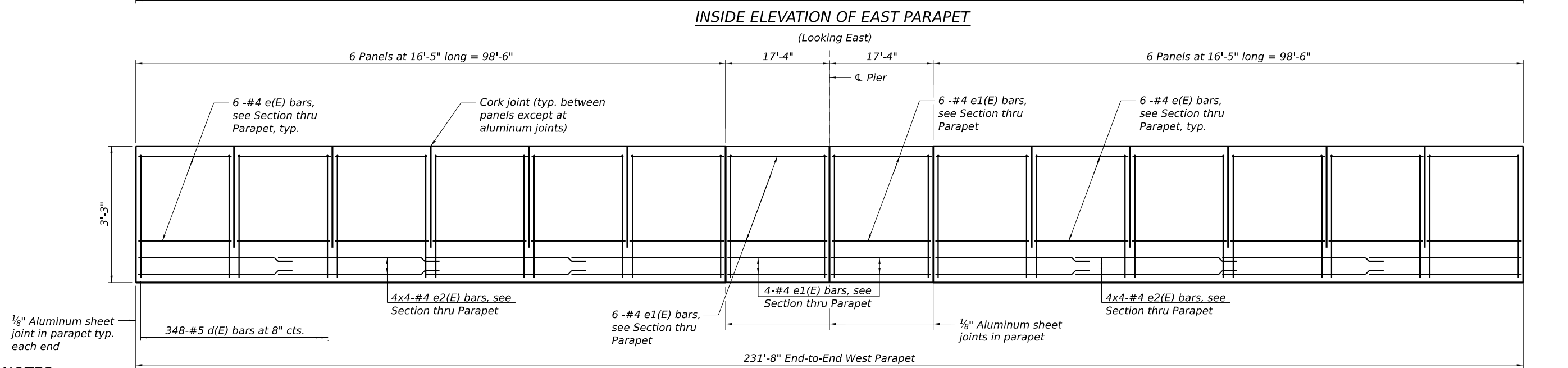
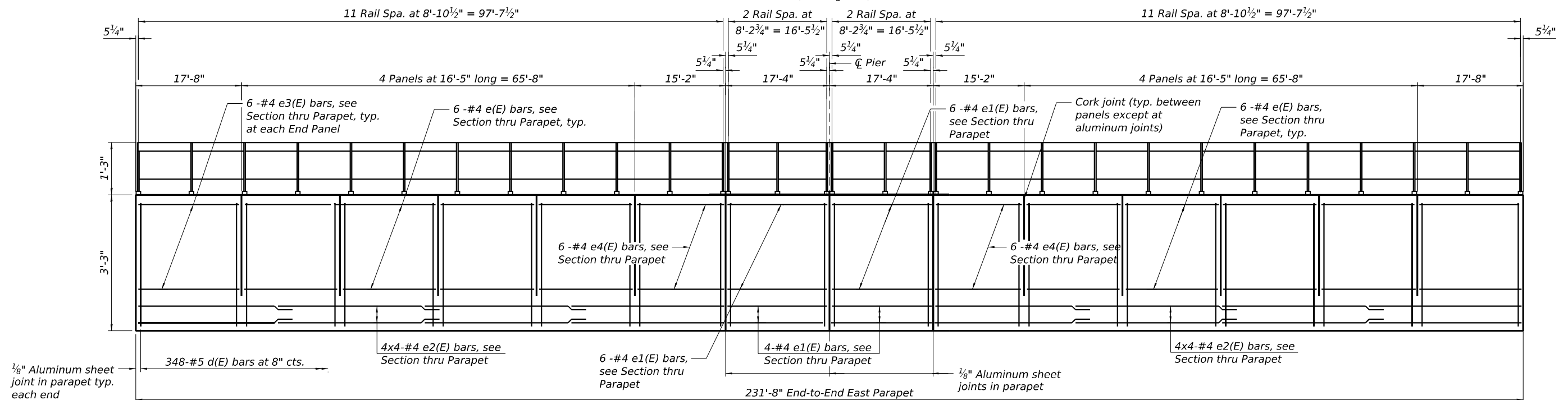
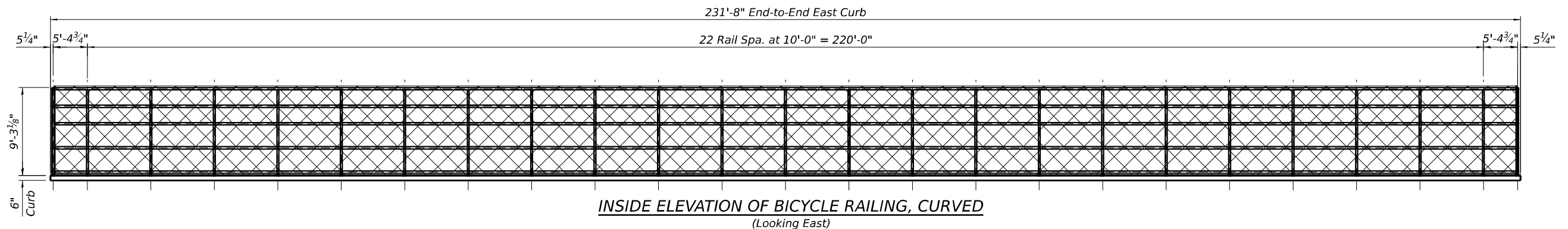
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 099-8304

SHEET S1-15 OF S1-41 SHEETS

F.A.I. RTE. 80	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P67	



NOTES:

1. For notes, see Sheet S1-18.
2. For Sections thru Parapet, parapet joint details, bar diagrams and Bill of Material, see Sheet S1-18.
3. For bicycle railing and parapet railing details, see Sheet S1-23.

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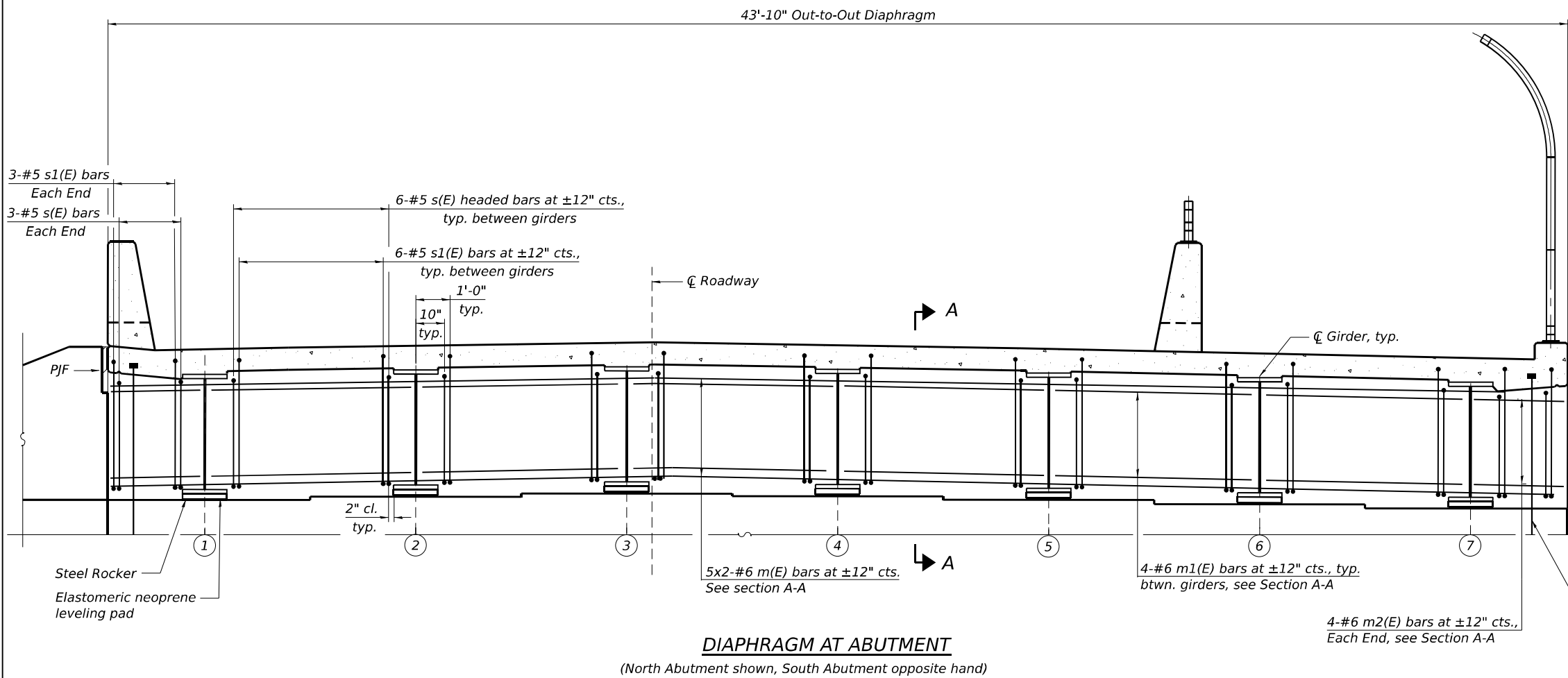
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET ELEVATIONS
STRUCTURE NO. 099-8304**

SHEET S1-16 OF S1-41 SHEETS

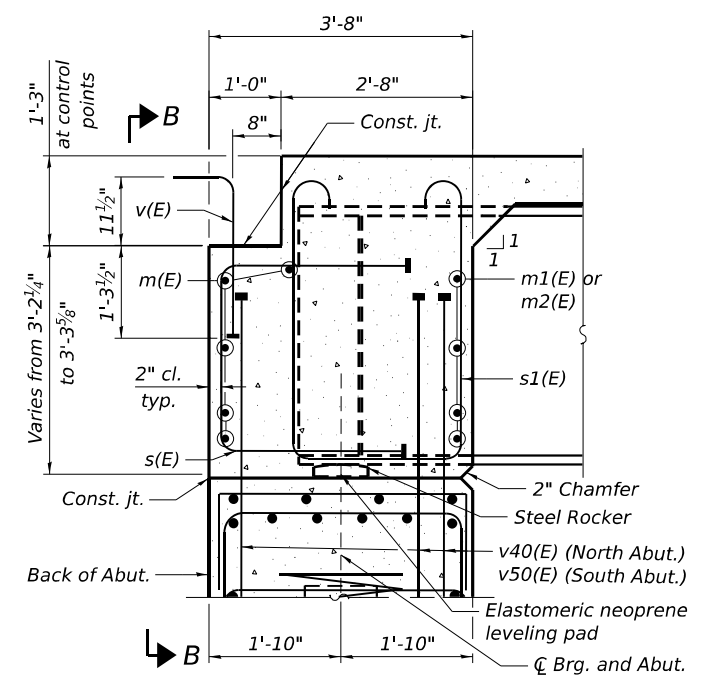
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80	2021-151-B	WILL	139	40
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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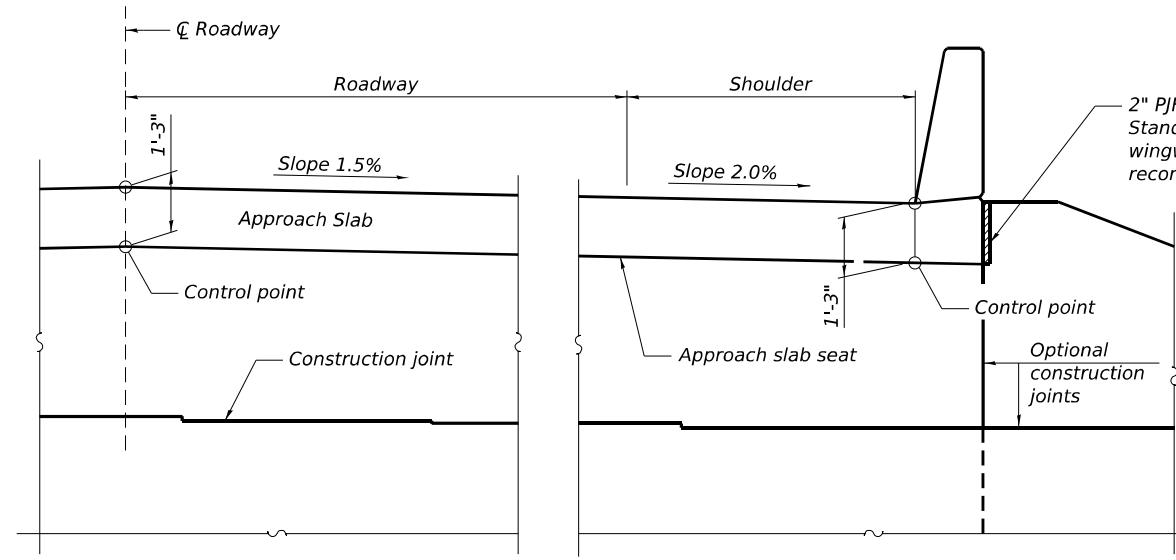


DIAPHRAGM AT ABUTMENT

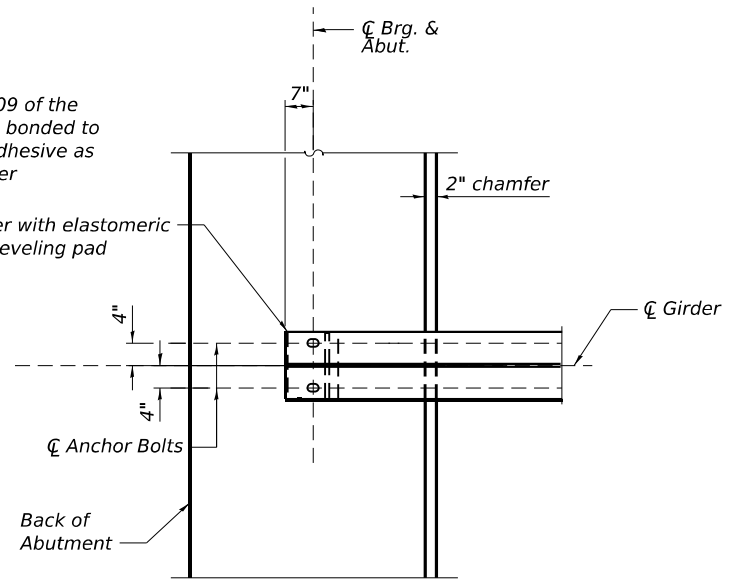
(North Abutment shown, South Abutment opposite hand)



SECTION A-A



VIEW B-B



PLAN AT ABUTMENT

(Showing bottom flange of girder)

NOTES:

1. For Superstructure details, bar diagrams and Bill of Materials, see Sheet S1-18.
2. For bearing details, see Sheet S1-30.
3. The approach slab seat shall have a constant slope determined from the control points shown.
4. The s(E), s1(E), and v(E) bars are placed parallel to girders and spaced at right angles to girders.
5. For v40(E) bars and details, see Sheets S1-31 and S1-32.
6. For v50(E) bars and details, see Sheets S1-33 and S1-34.



USER NAME =	DESIGNED - JMI	REVISED -
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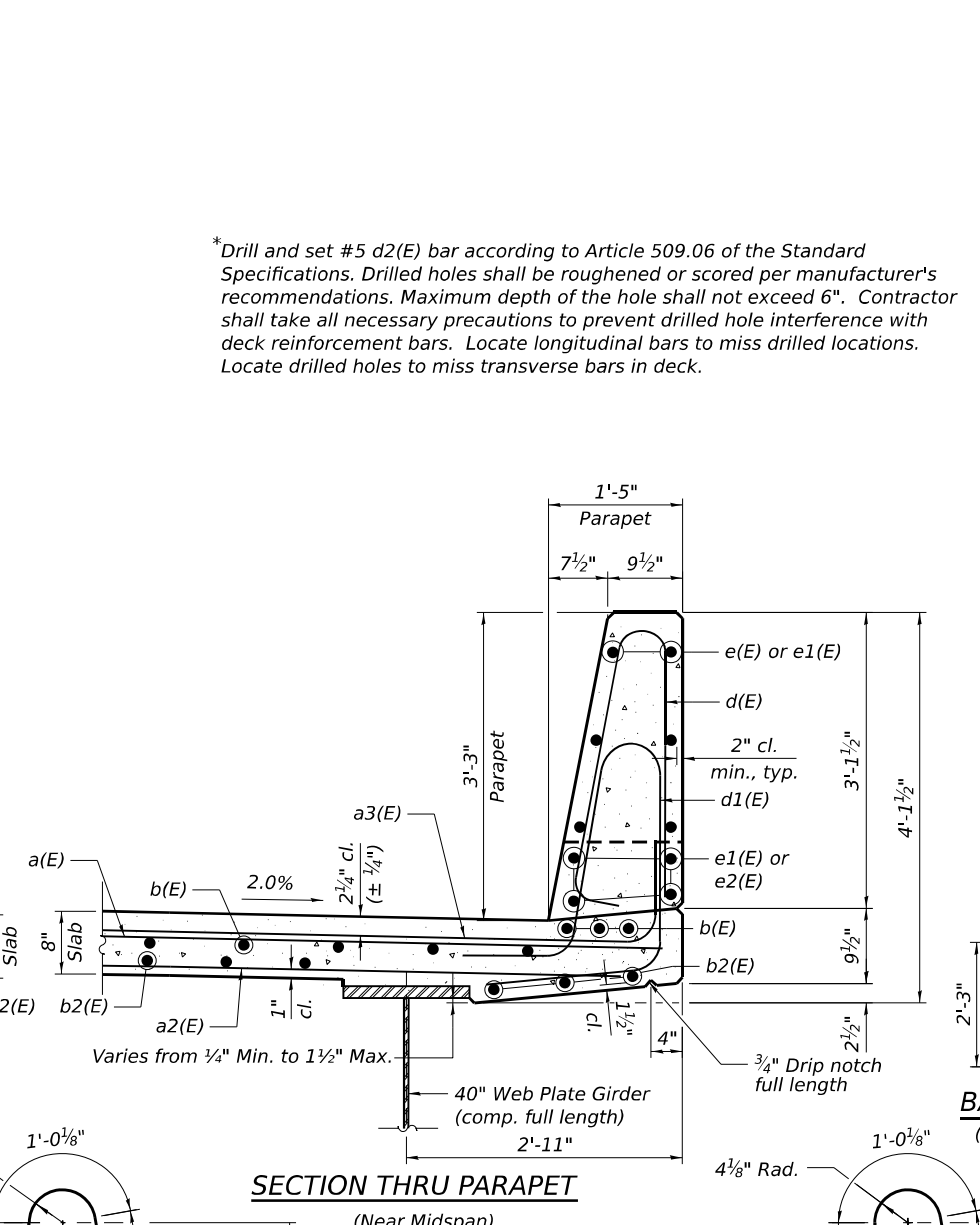
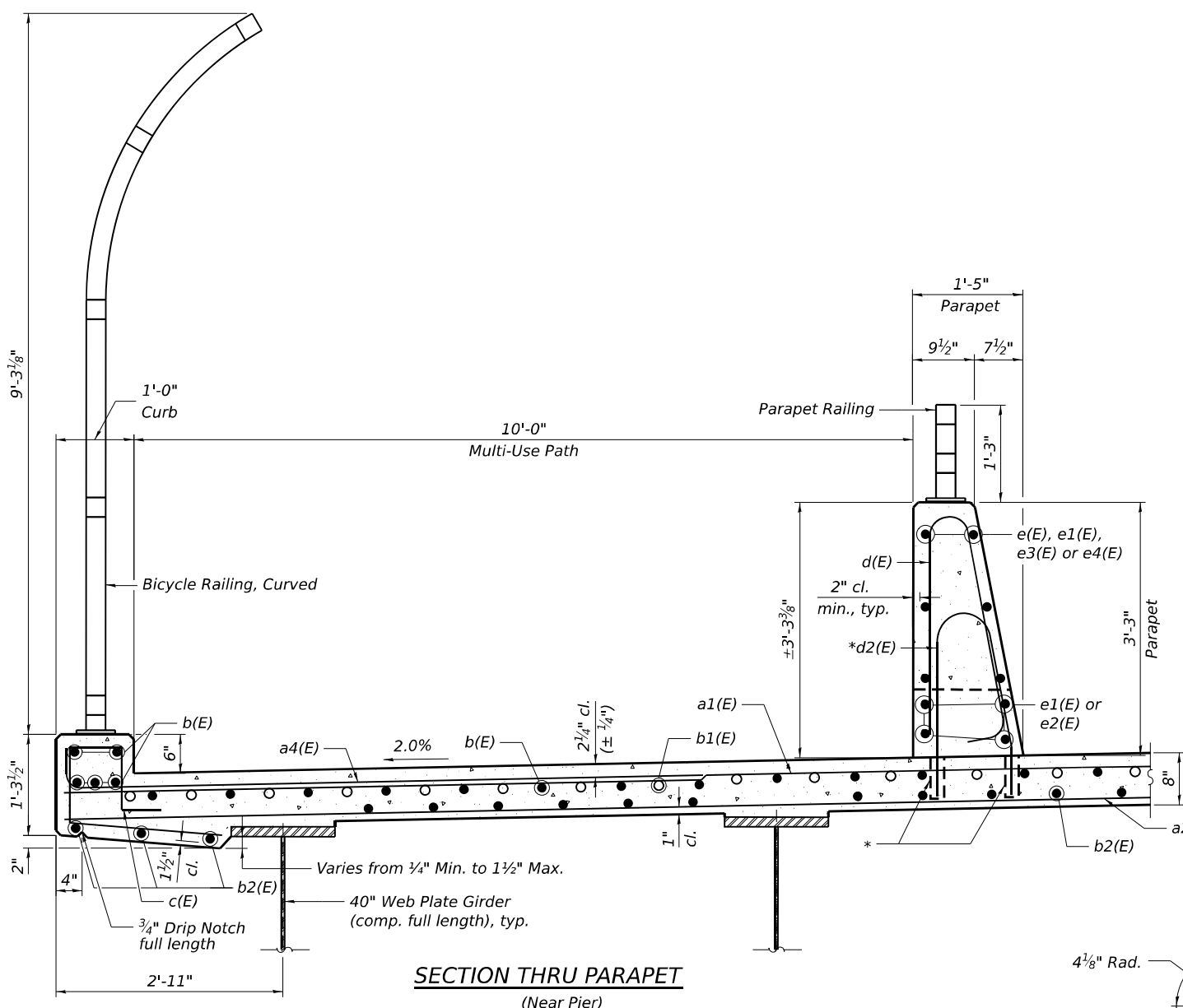
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DIAPHRAGM ELEVATION AND DETAILS
 STRUCTURE NO. 099-8304**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	41
			CONTRACT NO. 62P67	
		ILLINOIS FED. AID PROJECT		

SHEET S1-17 OF S1-41 SHEETS

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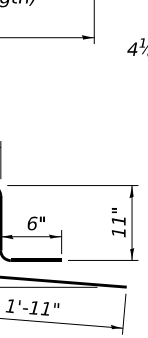
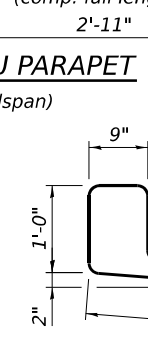
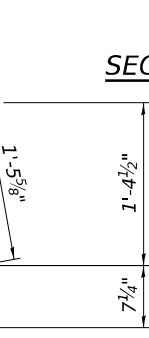
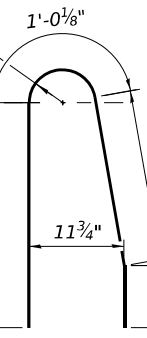
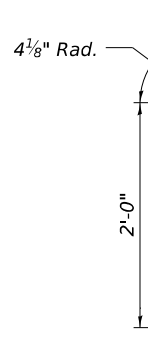
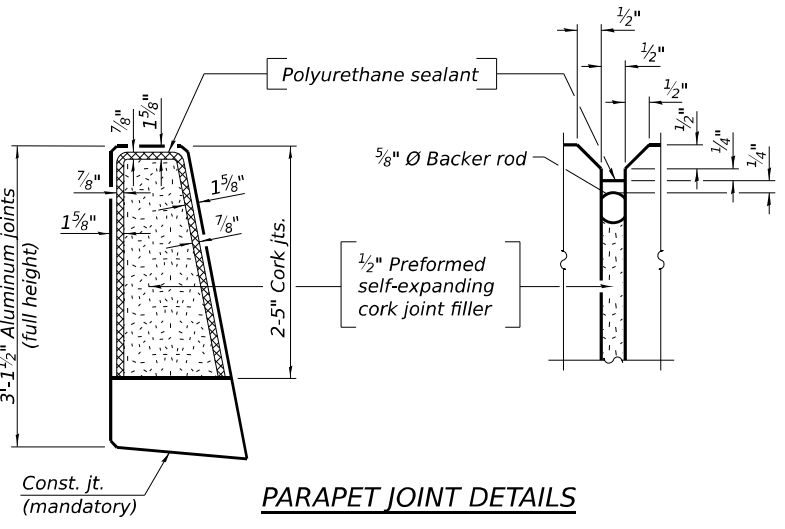
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	453	#5	26'-8"	—
a1(E)	453	#5	20'-4"	—
a2(E)	596	#5	23'-6"	—
a3(E)	445	#6	8'-4"	—
a4(E)	445	#6	7'-10"	—
b(E)	392	#5	32'-0"	—
b1(E)	129	#6	26'-0"	—
b2(E)	378	#5	28'-10"	—
c(E)	233	#5	5'-1"	└
d(E)	696	#5	6'-5"	└
d1(E)	348	#5	8'-1"	└
d2(E)	348	#5	5'-1"	└
e(E)	144	#4	16'-1"	—
e1(E)	40	#4	17'-0"	—
e2(E)	64	#4	26'-5"	—
e3(E)	12	#4	17'-4"	—
e4(E)	12	#4	14'-10"	—
m(E)	20	#6	23'-7"	—
m1(E)	48	#6	6'-0"	—
m2(E)	16	#6	2'-7"	—
s(E)	84	#5	7'-10"	└
s1(E)	84	#5	11'-8"	└
v(E)	88	#5	3'-1"	└
Concrete Superstructure		Cu Yd	380.9	
Bridge Deck Grooving		Sq Yd	773	
Protective Coat		Sq Yd	1,462	
Reinforcement Bars, Epoxy Coated		Pound	94,370	

*Drill and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of the hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

MINIMUM BAR LAPS

#4 bar = 2'-5"
 #5 bar = 3'-6"
 #6 bar = 3'-7"



- NOTES:**
- The 1/8" 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.
 - Protective coat shall be applied to the top and inside faces of curb (and west parapet, all faces of east parapet) and top of deck.



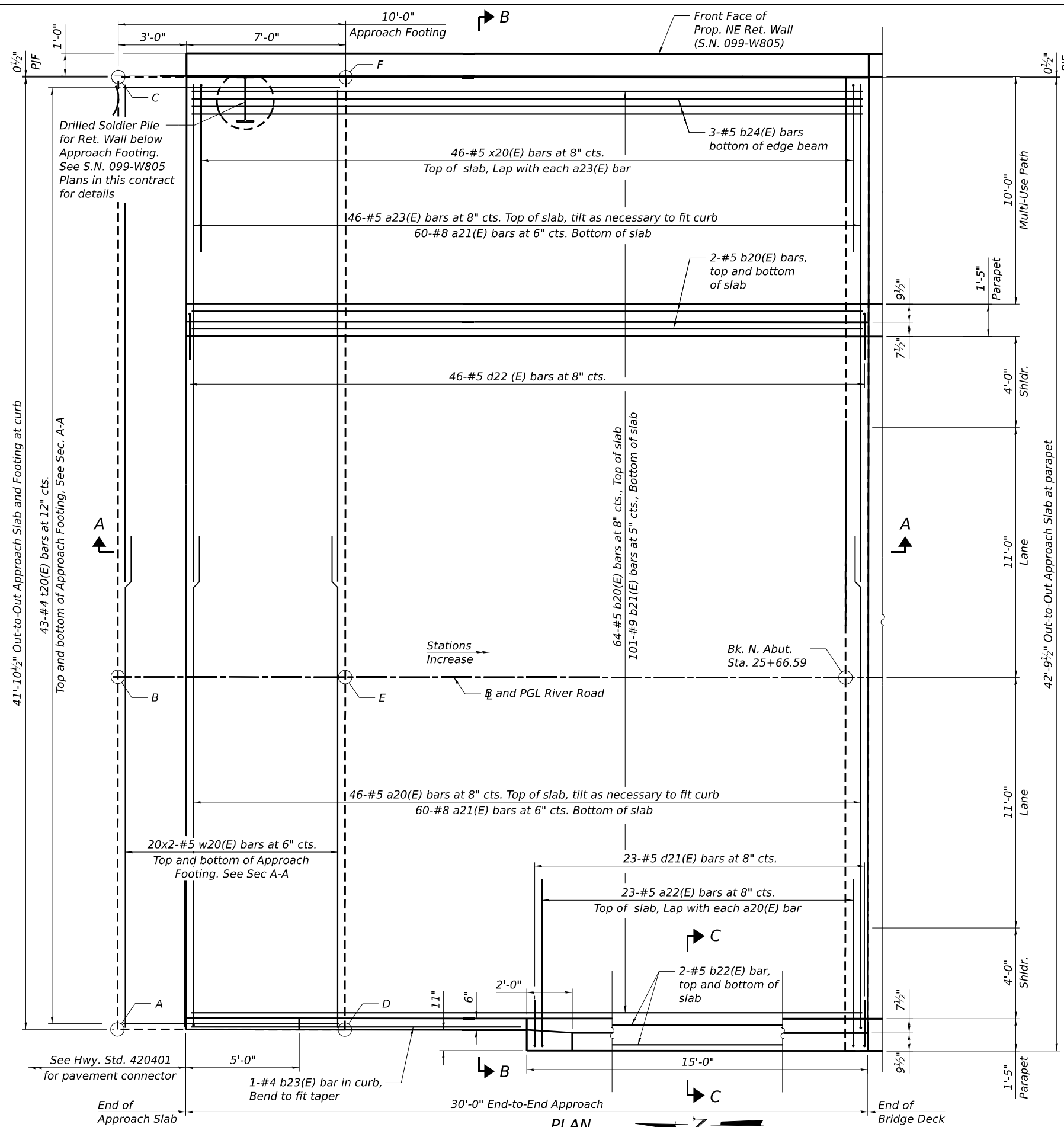
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK DETAILS, BAR DIAGRAMS AND BILL OF MATERIAL
 STRUCTURE NO. 099-8304
 SHEET S1-18 OF S1-41 SHEETS

F.A.I. RTE. = 80	SECTION = 2021-151-B	COUNTY = WILL	TOTAL SHEETS = 139	SHEET NO. = 42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P67	

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PLAN

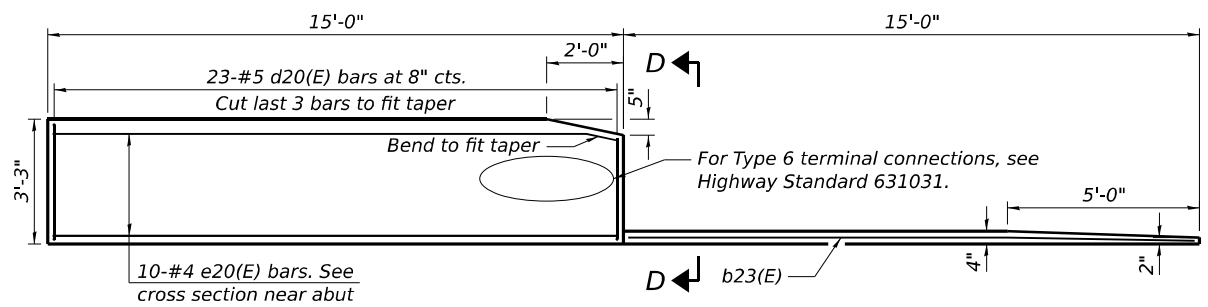
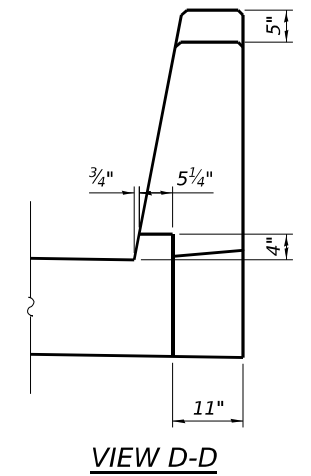
NOTE:
 1. For Sections A-A, B-B, C-C, Notes, Bill of Material and Inside Elevation of East Parapet, see Sheet S1-20.

TOP AND BOTTOM ELEVATIONS FOR NORTH APPROACH FOOTING

Point/Location	Top	Bottom
A - NW	593.06	592.22
B - N CL	593.31	592.48
C - NE	592.84	592.01
D - SW	593.28	592.45
E - S CL	593.54	592.71
F - SE	593.07	592.24

MINIMUM BAR LAP

#5 = 3'-6"
 #8 = 4'-9"



INSIDE ELEVATION OF WEST PARAPET AND CURB



USER NAME =	DESIGNED - EBK	REVISIONS -
PLOT SCALE =	CHECKED - MI, JJS, SK	REVISIONS -
PLOT DATE =	DRAWN - EBK	REVISIONS -
	CHECKED - MI, JJS, SK	REVISIONS -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH APPROACH SLAB PLAN
 STRUCTURE NO. 099-8304**

SHEET S1-19 OF S1-41 SHEETS

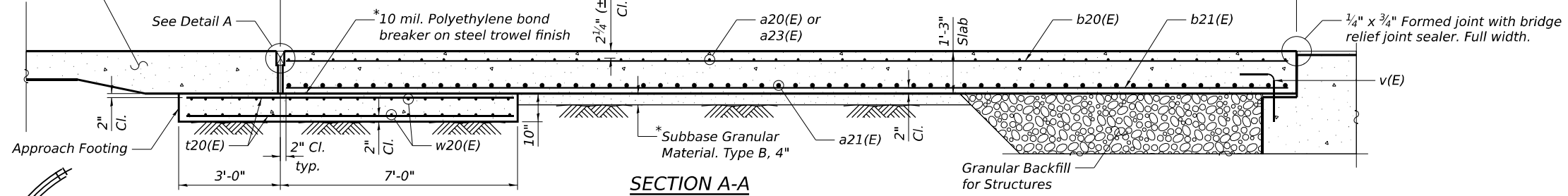
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

Rigid Pavement Connector (PCC) for Bridge Approach Slab (See Hwy. Std. 420401)

End of Approach Slab

30'-0" End-to-End Approach

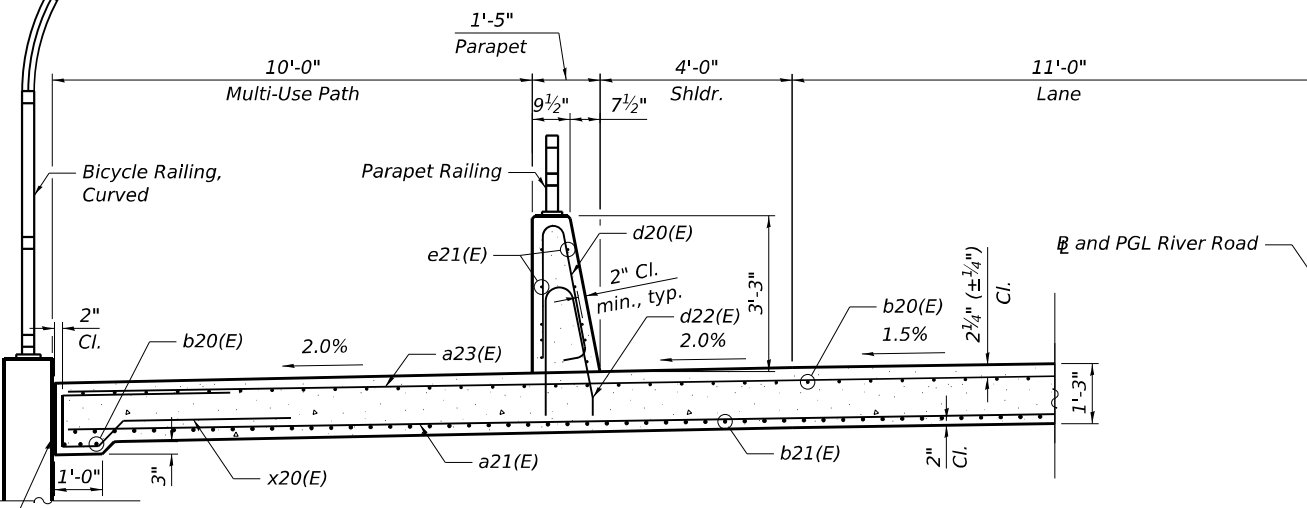
End of Bridge Deck



SECTION A-A

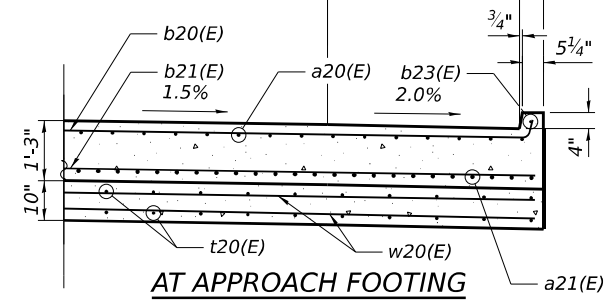
**NORTH APPROACH
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a20(E)	46	#5	23'-0"	—
a21(E)	120	#8	23'-7"	—
a22(E)	23	#5	7'-4"	—
a23(E)	46	#5	22'-8"	—
b20(E)	71	#5	29'-8"	—
b21(E)	101	#9	29'-8"	—
b22(E)	4	#5	14'-8"	—
b23(E)	1	#4	14'-8"	—
d20(E)	69	#5	6'-5"	⏏
d21(E)	23	#5	8'-6"	⏏
d22(E)	46	#5	6'-2"	⏏
e20(E)	10	#4	14'-8"	—
e21(E)	10	#4	29'-8"	—
t20(E)	86	#4	9'-8"	—
w20(E)	80	#5	22'-8"	—
x20(E)	46	#5	9'-7"	⏏
Concrete Structures			Cu Yd	13.0
Concrete Superstructure			Cu Yd	6.0
Bridge Deck Grooving			Sq Yd	100
Protective Coat			Sq Yd	157
Concrete Superstructure (Approach Slab)			Cu Yd	58.5
Reinforcement Bars, Epoxy Coated			Pound	26,550

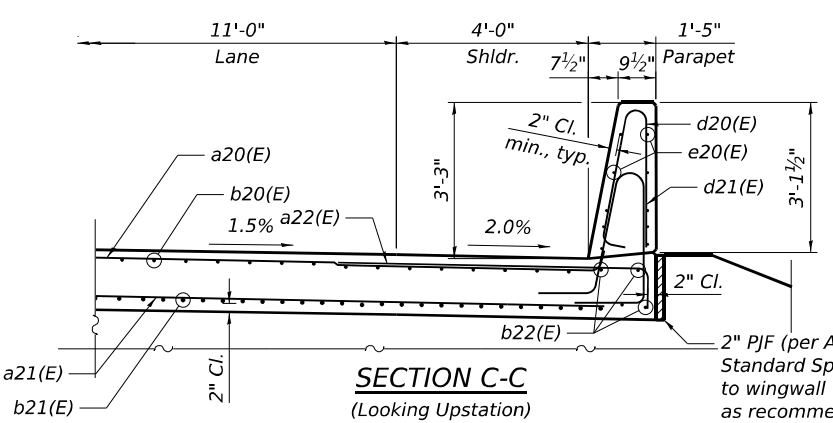


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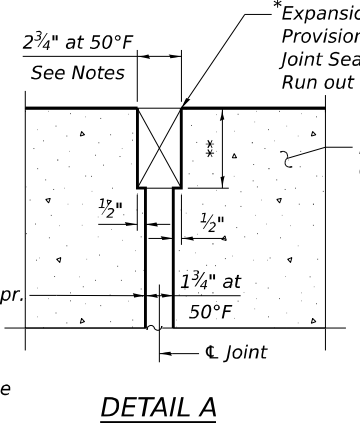
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(Looking Upstation)



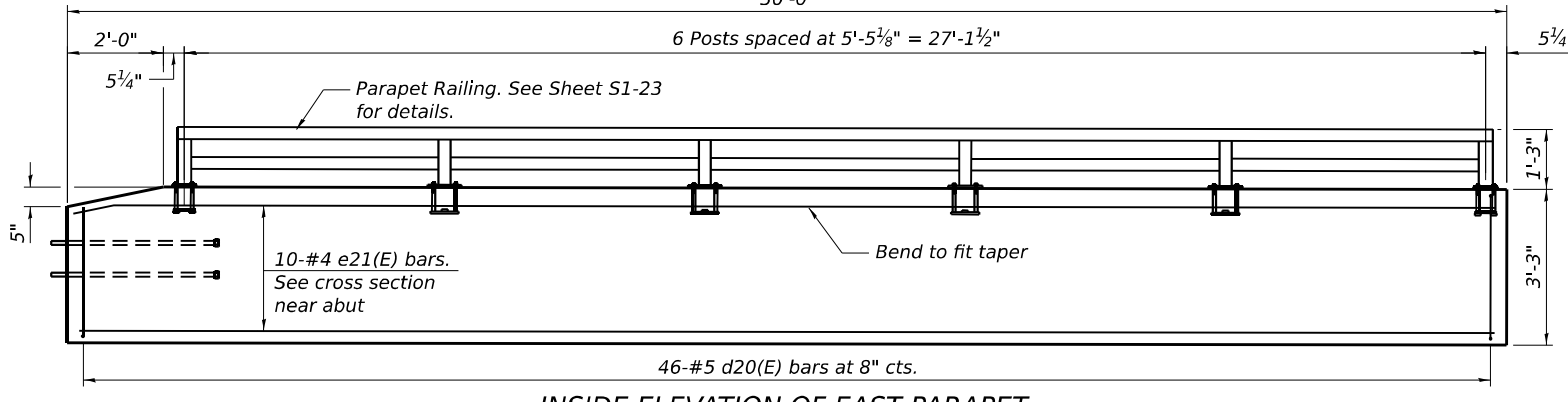
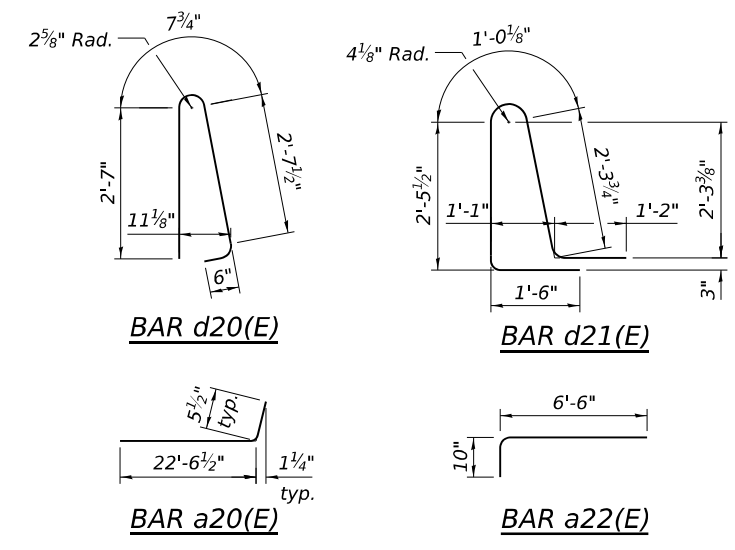
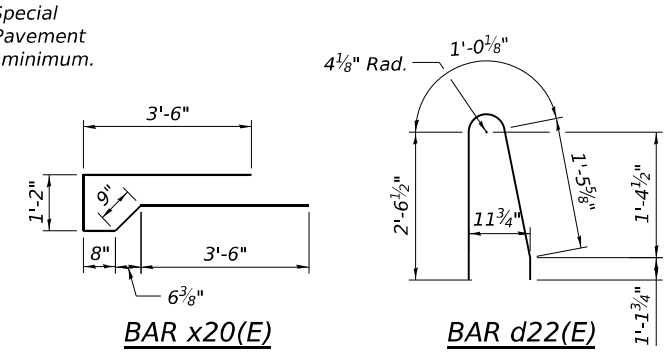
AT APPROACH FOOTING



SECTION C-C
(Looking Upstation)



DETAIL A



INSIDE ELEVATION OF EAST PARAPET

- NOTES:**
- * Cost included with Concrete Superstructure (Approach Slab).
 - ** Per manufacturer recommendations
 - *** Drill and set #5 d32(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of the hole shall not exceed 1'-1". Contractor shall take all necessary precautions to prevent drilled hole interference with approach slab reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in approach slab.

- 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 (Q_{max}) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see sheet S1-03.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

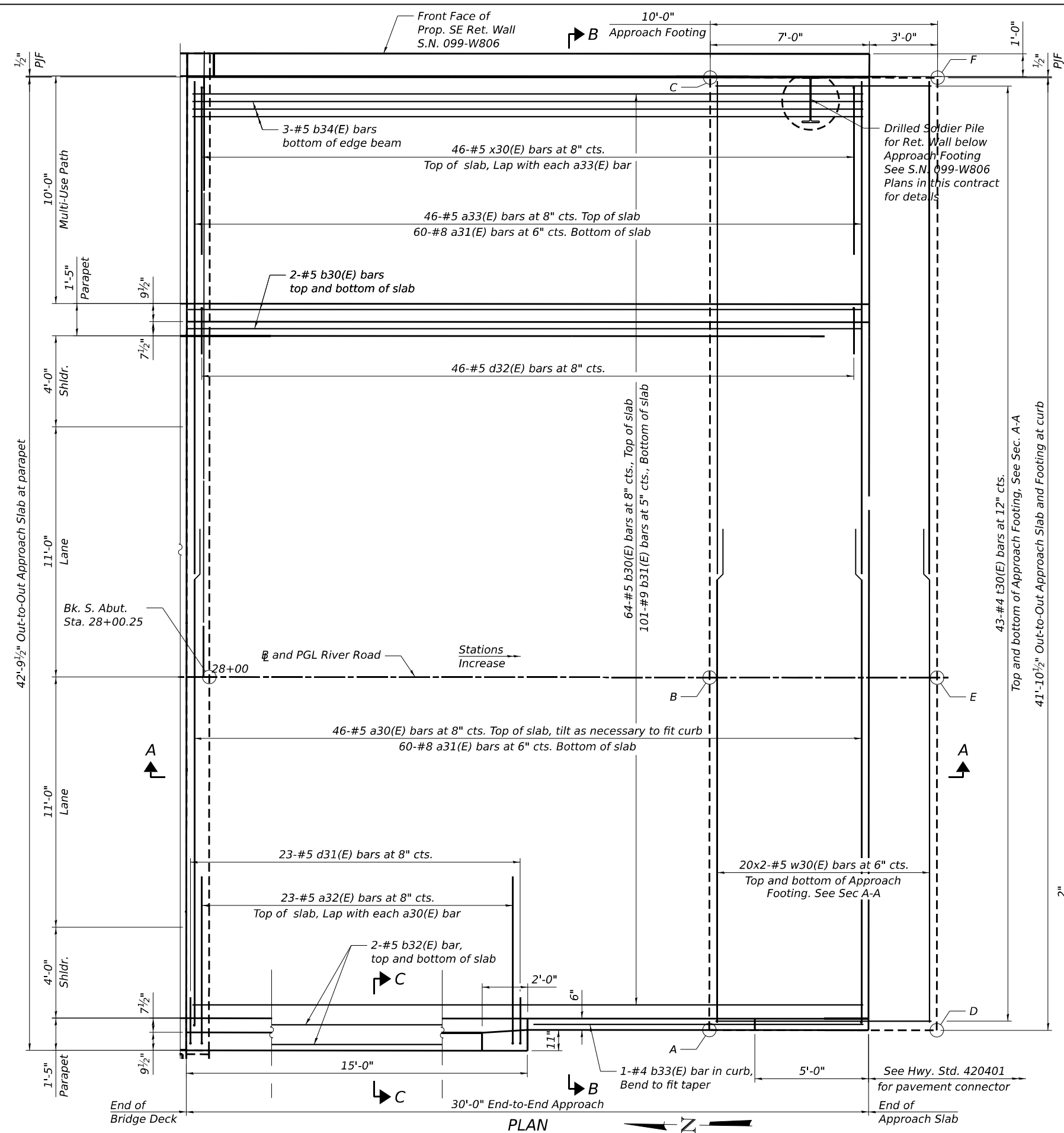
NORTH APPROACH SLAB SECTIONS AND DETAILS
STRUCTURE NO. 099-8304

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	44
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SHEET S1-20 OF S1-41 SHEETS

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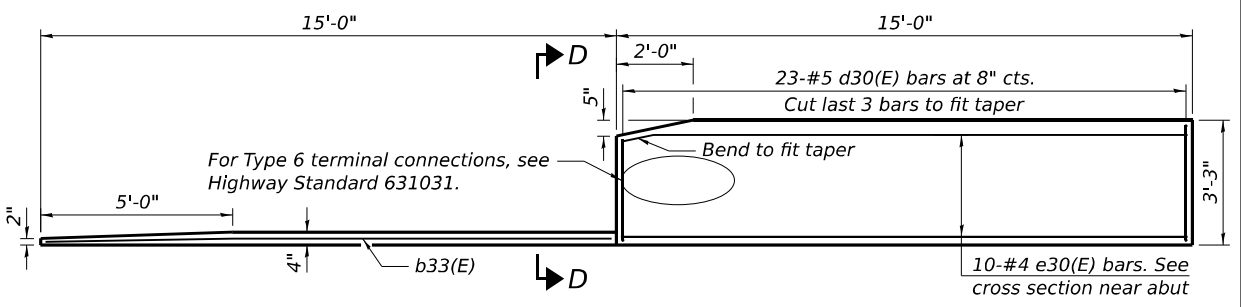
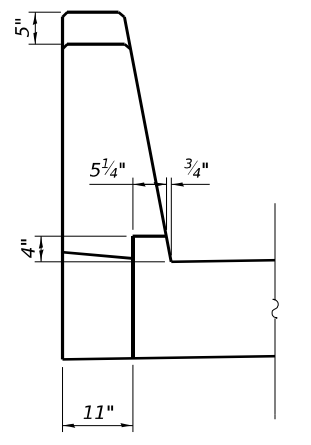
NOTE:
 1. For Sections A-A, B-B, C-C, Notes, Bill of Material and Inside Elevation of East Parapet, see Sheet S1-22.

TOP AND BOTTOM ELEVATIONS FOR SOUTH APPROACH FOOTING

Point/Location	Top	Bottom
A - NW	593.49	592.66
B - N CL	593.75	592.91
C - NE	593.28	592.44
D - SW	593.28	592.44
E - S CL	593.53	592.70
F - SE	593.06	592.23

MINIMUM BAR LAP

#5 = 3'-6"
 #8 = 4'-9"



INSIDE ELEVATION OF WEST PARAPET AND CURB



USER NAME =	DESIGNED - EBK	REVISED -
PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - EBK	REVISED -
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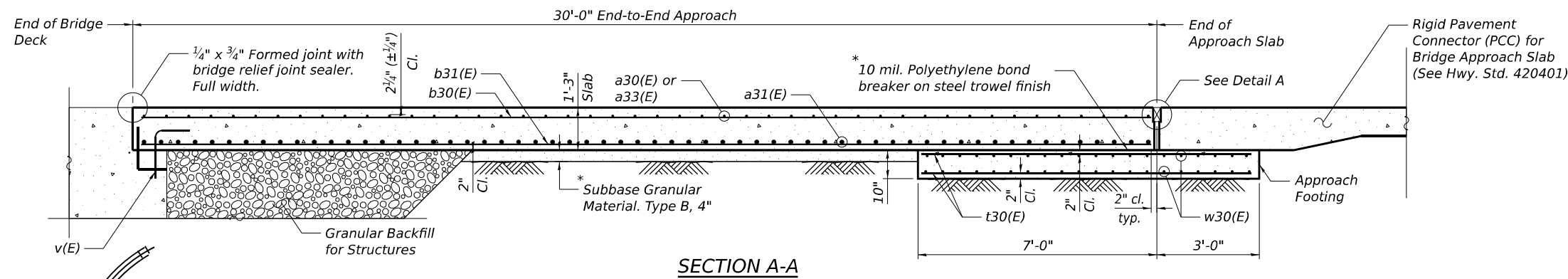
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB PLAN
 STRUCTURE NO. 099-8304**

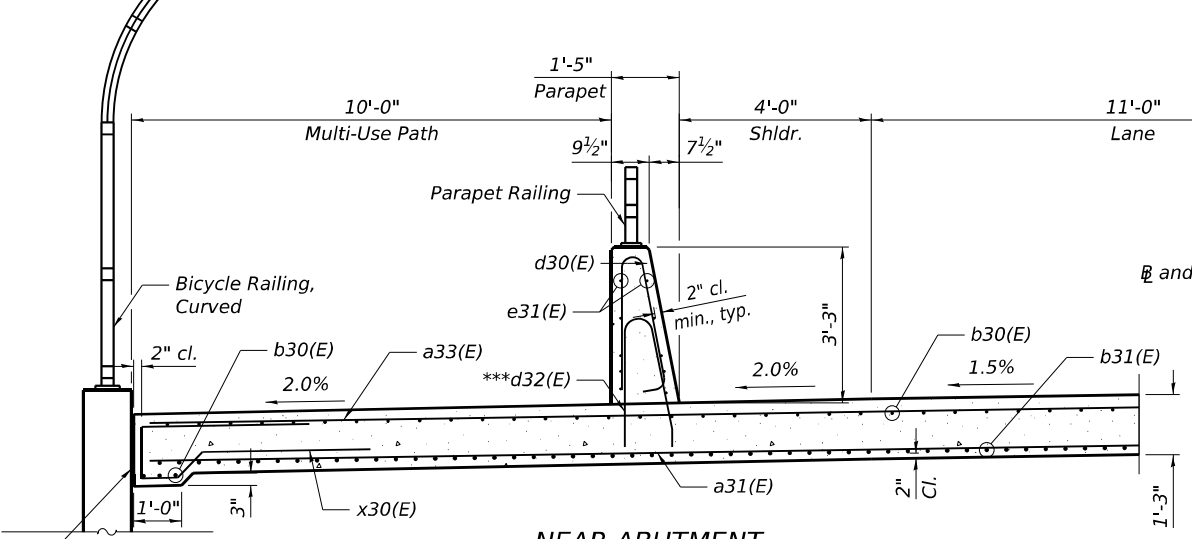
SHEET S1-21 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

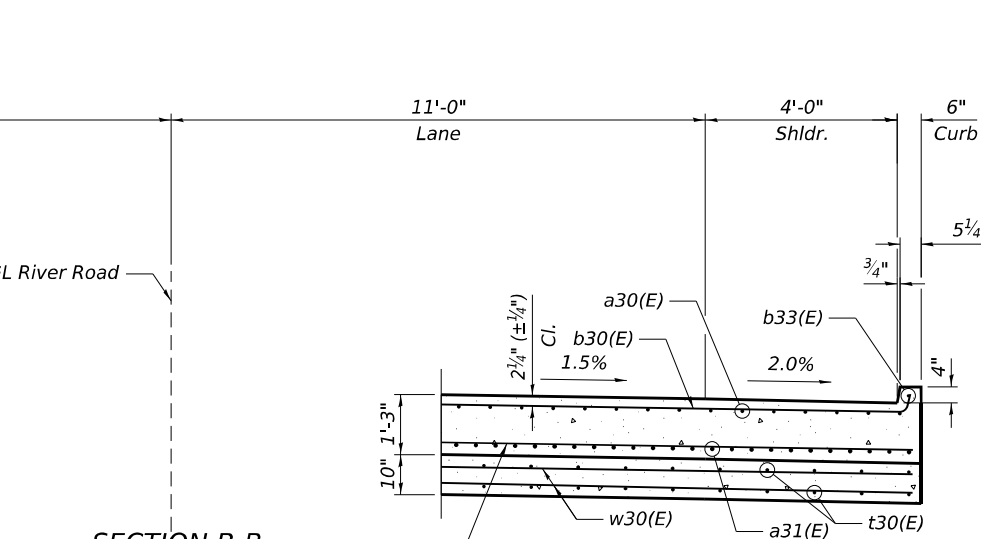
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SECTION A-A

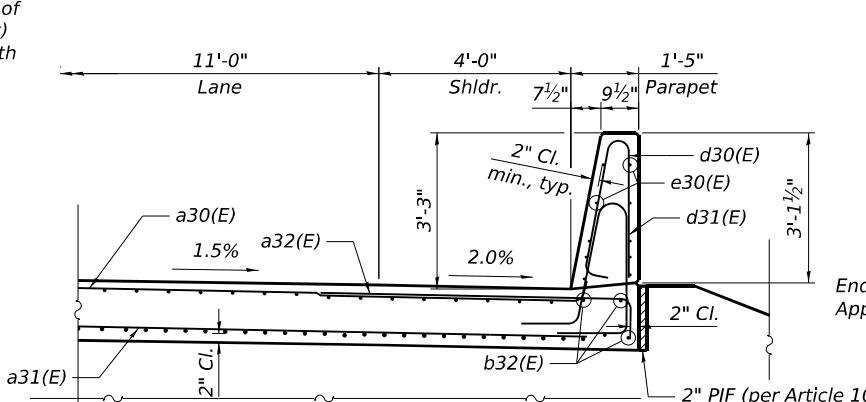


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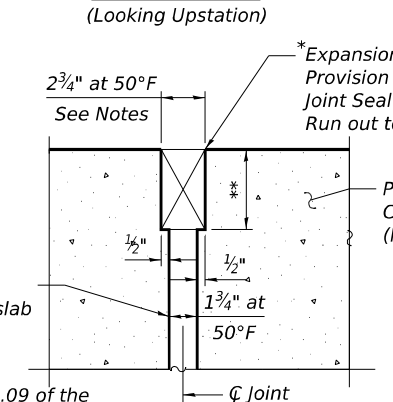


SECTION B-B (Looking Upstation)

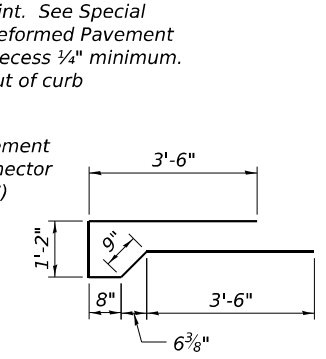
AT APPROACH FOOTING



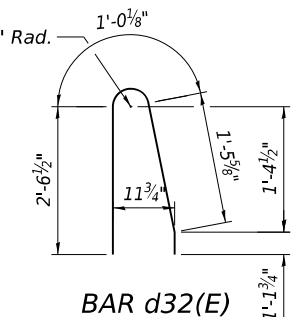
SECTION C-C (Looking Upstation)



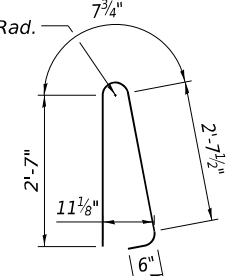
DETAIL A



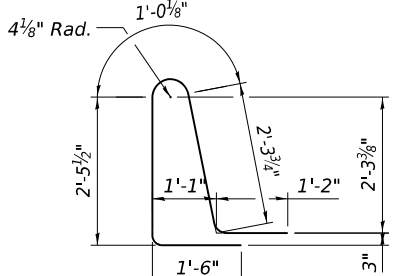
BAR x30(E)



BAR d32(E)



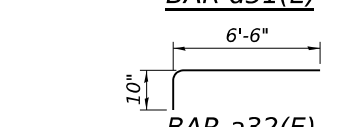
BAR d30(E)



BAR d31(E)



BAR a30(E)



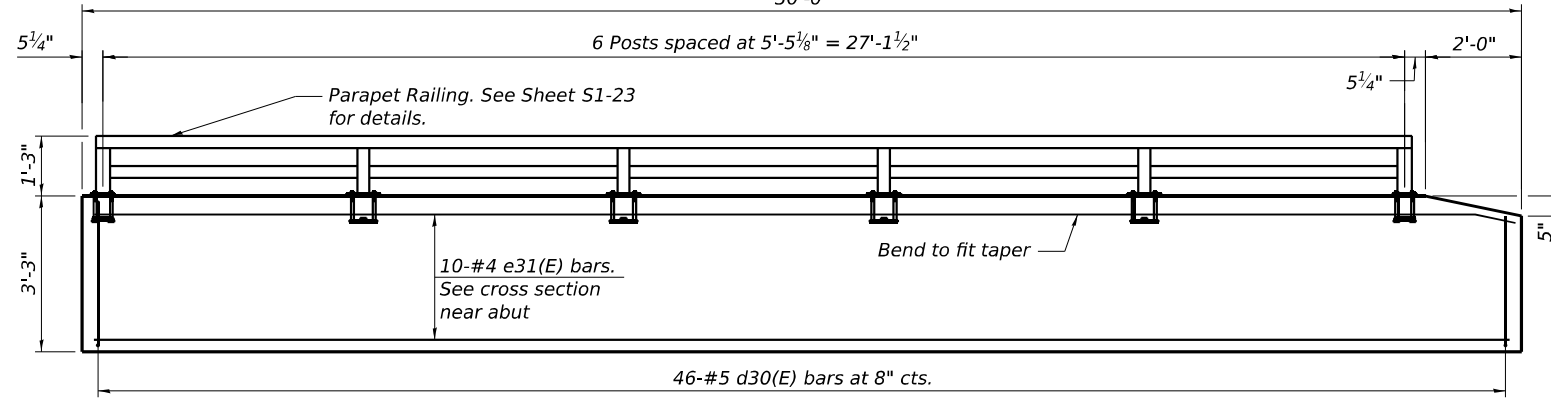
BAR a32(E)

**SOUTH APPROACH
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a30(E)	46	#5	23'-0"	▬▬▬▬▬	
a31(E)	120	#8	23'-7"	▬▬▬▬▬	
a32(E)	23	#5	7'-4"	▬▬▬▬▬	
a33(E)	46	#5	22'-8"	▬▬▬▬▬	
b30(E)	71	#5	29'-8"	▬▬▬▬▬	
b31(E)	101	#9	29'-8"	▬▬▬▬▬	
b32(E)	4	#5	14'-8"	▬▬▬▬▬	
b33(E)	1	#4	14'-8"	▬▬▬▬▬	
d30(E)	69	#5	6'-5"	▬▬▬▬▬	
d31(E)	23	#5	8'-6"	▬▬▬▬▬	
d32(E)	46	#5	6'-2"	▬▬▬▬▬	
e30(E)	10	#4	14'-8"	▬▬▬▬▬	
e31(E)	10	#4	29'-8"	▬▬▬▬▬	
t30(E)	86	#4	9'-8"	▬▬▬▬▬	
w30(E)	80	#5	22'-8"	▬▬▬▬▬	
x30(E)	46	#5	9'-7"	▬▬▬▬▬	
Concrete Structures				Cu Yd	13.0
Concrete Superstructure				Cu Yd	6.0
Bridge Deck Grooving				Sq Yd	100
Protective Coat				Sq Yd	157
Concrete Superstructure (Approach Slab)				Cu Yd	58.5
Reinforcement Bars, Epoxy Coated				Pound	26,550

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 (Q_{max}) = 2.0 ksf.
 - Cost of excavation for approach footing included with Concrete Structures.
 - For Granular Backfill for Structures and drainage treatment details, see sheet S1-03.
- * Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations
 *** Drill and set #5 d32(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of the hole shall not exceed 1'-1". Contractor shall take all necessary precautions to prevent drilled hole interference with approach slab reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in approach slab.



INSIDE ELEVATION OF EAST PARAPET



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PLOT DATE =	DRAWN - EBK	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

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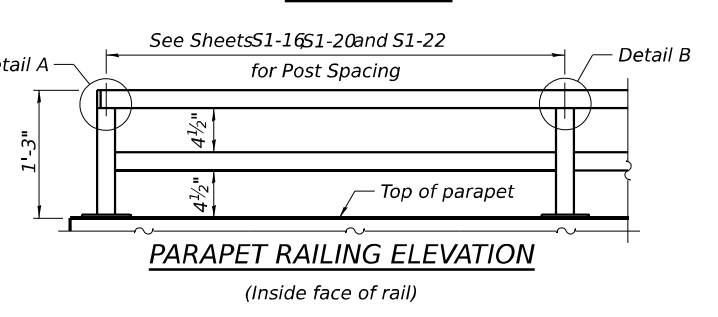
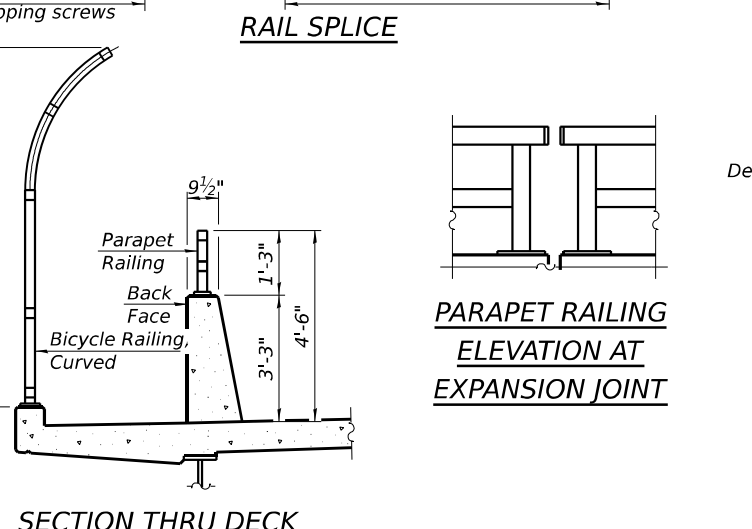
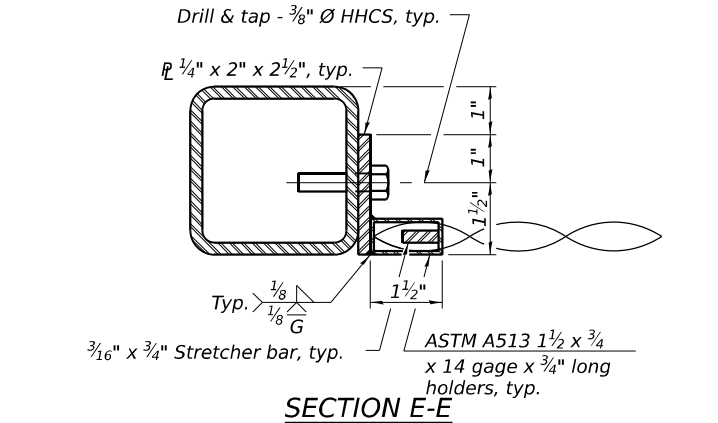
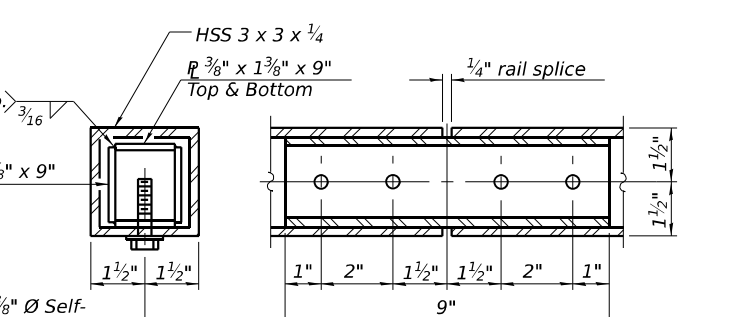
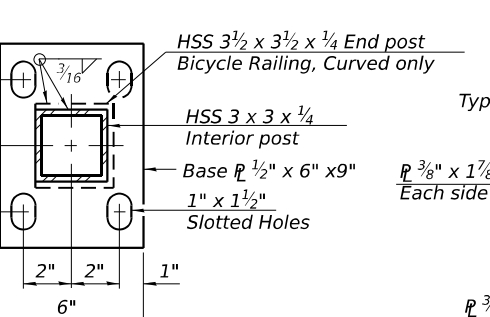
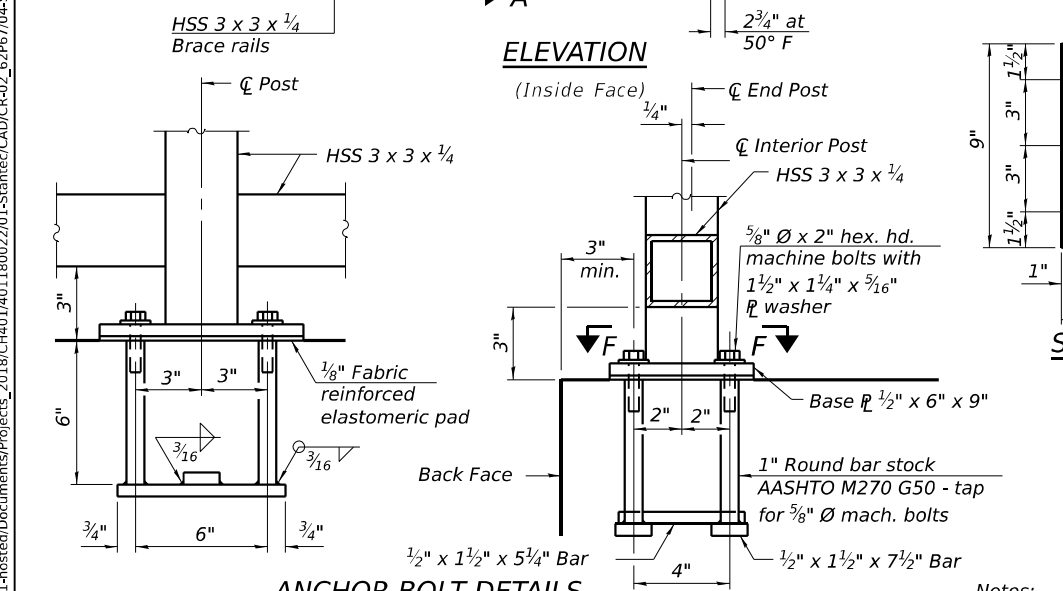
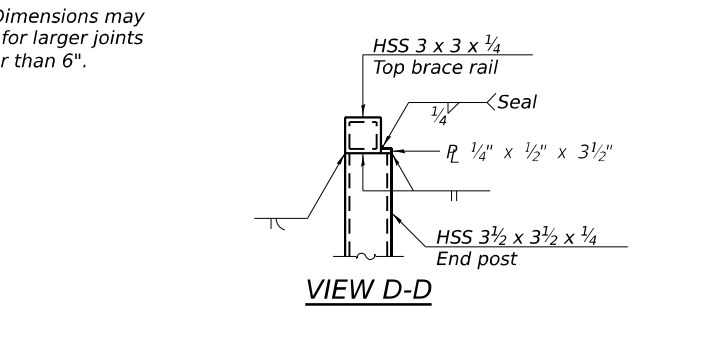
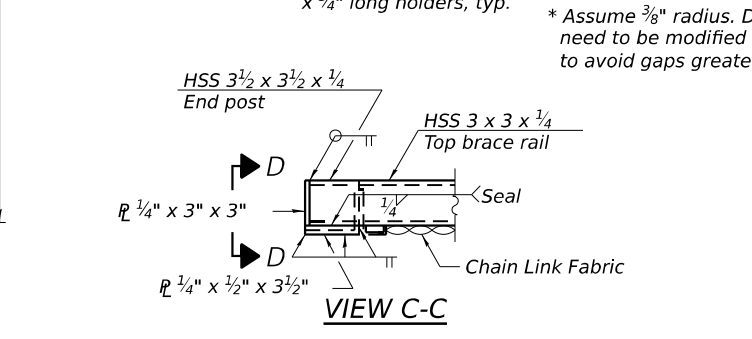
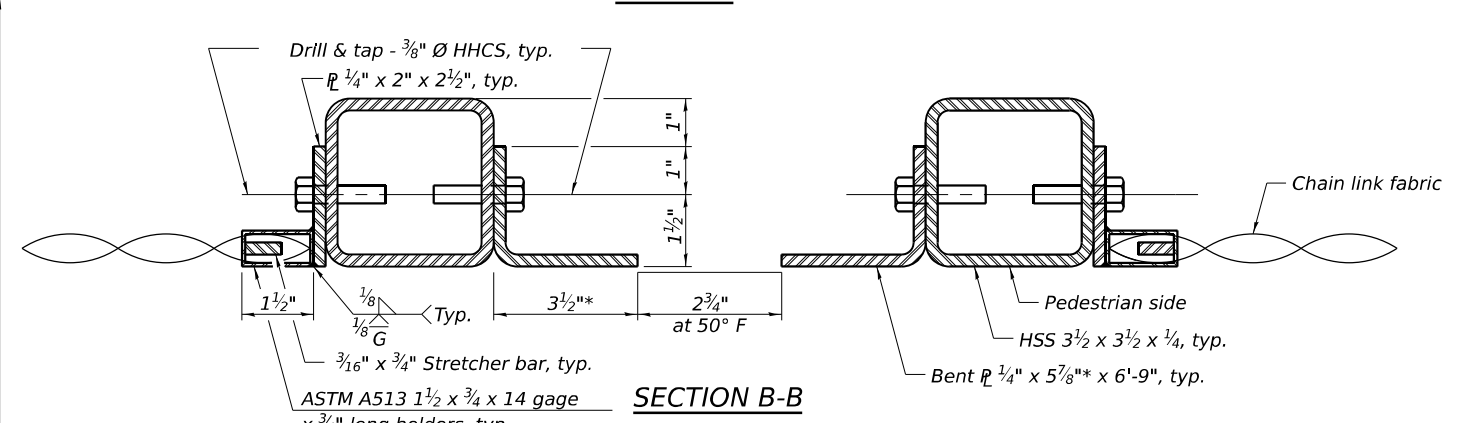
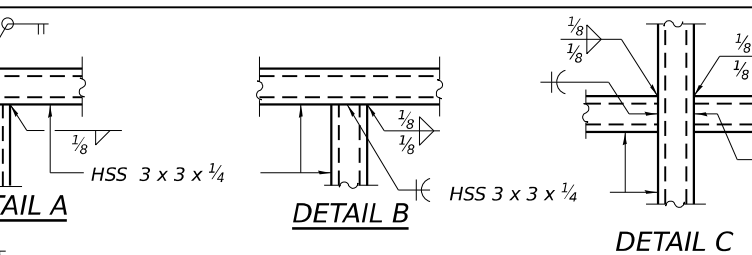
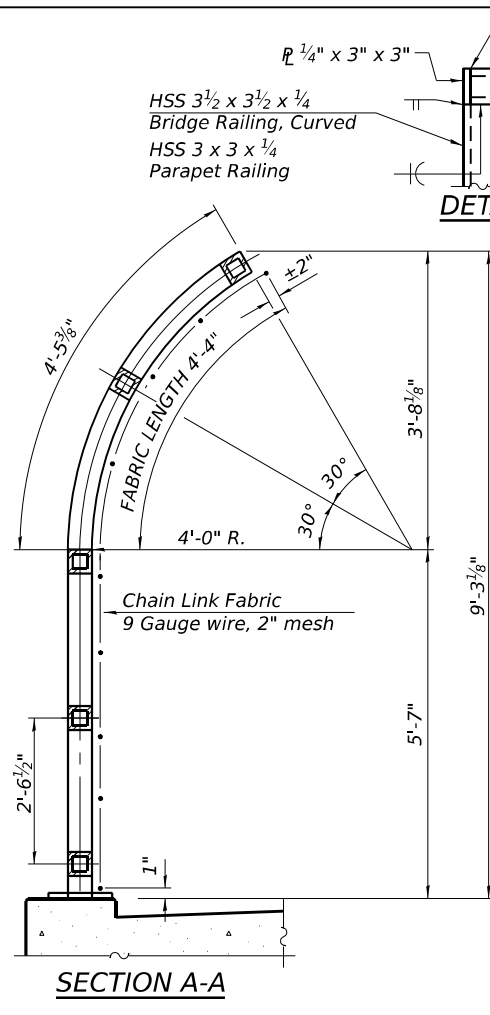
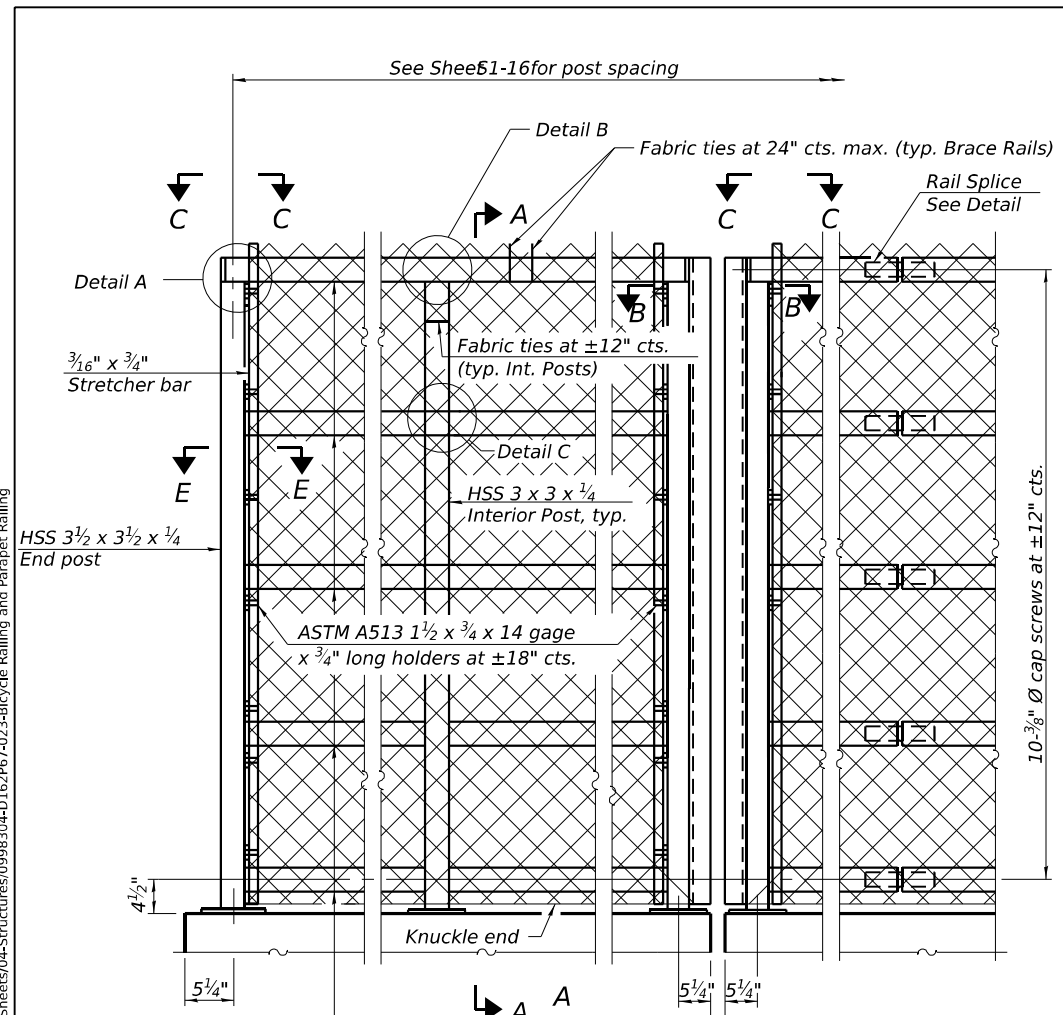
SOUTH APPROACH SLAB SECTIONS AND DETAILS
STRUCTURE NO. 099-8304

SHEET S1-22 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	46
CONTRACT NO. 62P67				

ILLINOIS FED. AID PROJECT

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ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

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.

CVN testing is not required for the HSS tubing used in the Bicycle Railing Curved.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

This work will be paid for at the unit cost per foot of Bicycle Railing, Curved.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing, Curved	Foot	232
Parapet Railing	Foot	292



USER NAME =	DESIGNED - SK	REVISED -
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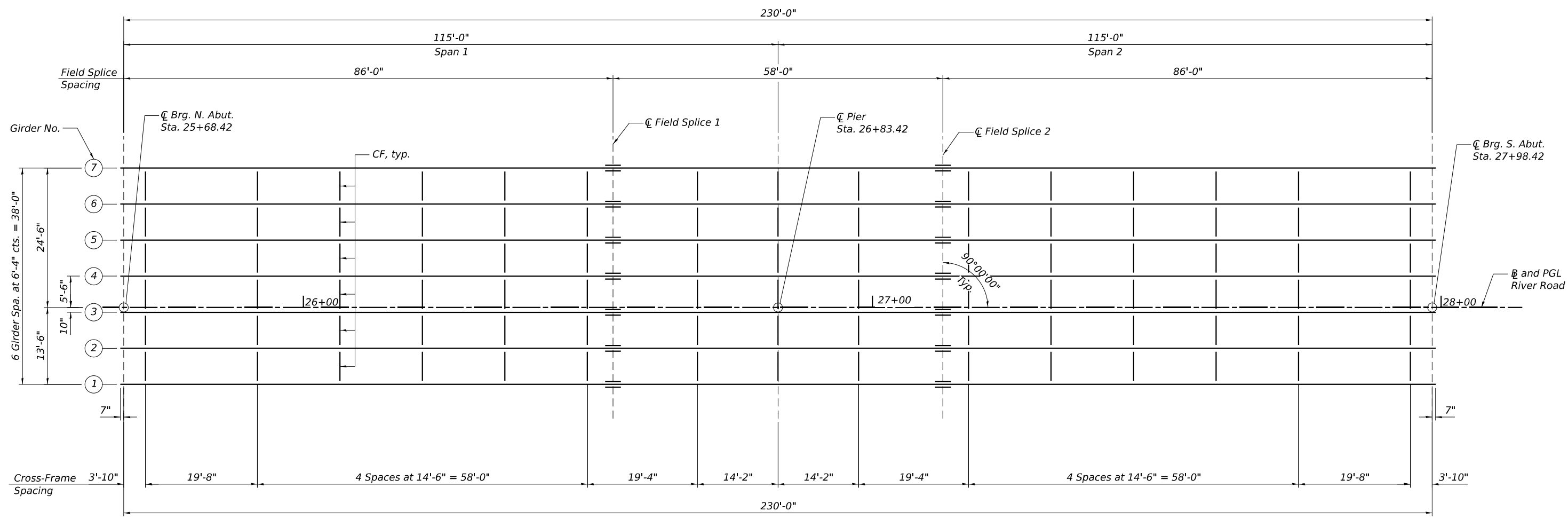
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING, CURVED & PARAPET RAILING
STRUCTURE NO. 099-8304**

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			CONTRACT NO. 62P67	
ILLINOIS FED. AID PROJECT				

SHEET S1-23 OF S1-41 SHEETS

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FRAMING PLAN

NOTES:

1. For Girder Elevation, see Sheet S1-26.
2. For Camber Diagram, see Sheet S1-27.
3. For moment and reaction tables, see Sheet S1-25.
4. For girder bolted field splice details, see Sheet S1-28.
5. For cross frames, see Sheet S1-29.
6. All structural steel for the girders, bearing stiffeners and splice plates shall be AASHTO M270 Grade 50.
 All structural steel for cross frames, connection plates and fill plates may be AASHTO M270 Grade 36.
7. For Top of Web Elevation table, see Sheet S1-27.

	USER NAME =	DESIGNED - CP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN STRUCTURE NO. 099-8304	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SHEET S1-24 OF 51-41 SHEETS					ILLINOIS FED. AID PROJECT					

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INTERIOR GIRDER 6 MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 2	Pier	
I_s	(in ⁴)	24,529	35,455
$I_C(n)$	(in ⁴)	50,888	-
$I_C(3n)$	(in ⁴)	37,977	-
$I_C(cr)$	(in ⁴)	-	39,862
S_s	(in ³)	1,206	1,700
$S_C(n)$	(in ³)	1,488	-
$S_C(3n)$	(in ³)	1,384	-
$S_C(cr)$	(in ³)	-	1,765
DC1	(k/ft)	0.959	1.047
M _{DC1}	(k)	826	-1,775
DC2	(k/ft)	0.275	0.275
M _{DC2}	(k)	239	-493
DW	(k/ft)	0.317	0.317
M _{DW}	(k)	275	-568
LLDF		0.515	0.530
M _L + IM	(k)	1,384	-1,600
f_l (Strength I)	(ksi)	-	-
$M_U + \frac{1}{2} f_l S_{XC}$	(k)	4,166	-6,487
$\phi_f M_n$	(k)	6,937	7,803
f_s DC1	(ksi)	8.22	-12.53
f_s DC2	(ksi)	2.07	-3.35
f_s DW	(ksi)	2.38	-3.86
f_s (L+IM)	(ksi)	11.16	-10.88
f_l (Service II)	(ksi)	-	-
$f_s + f_l/2$ (Service II)	(ksi)	27.19	-33.88
$0.95R_h F_{yf}$	(ksi)	47.5	47.5
$f_s + f_l/3$ (Total)(Strength I)	(ksi)	-	-
$\phi_f F_n$	(ksi)	-	-
V _f	(k)	28.69	29.25

GIRDER 6 REACTION TABLE					
		Abut.		Pier	
		Interior	Exterior	Interior	Exterior
LLDF		0.695	-	0.695	-
OCF		-	-	-	-
R _{DC1}	(k)	40.87	-	145.55	-
R _{DC2}	(k)	11.53	-	40.20	-
R _{DW}	(k)	13.27	-	46.29	-
R _L	(k)	67.06	-	134.38	-
R _{Im}	(k)	14.82	-	25.09	-
R _{Total}	(k)	147.55	-	391.51	-

EXTERIOR GIRDER 7 MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 2	Pier	
I_s	(in ⁴)	24,529	35,455
$I_C(n)$	(in ⁴)	50,376	-
$I_C(3n)$	(in ⁴)	37,584	-
$I_C(cr)$	(in ⁴)	-	39,862
S_s	(in ³)	1,206	1,700
$S_C(n)$	(in ³)	1,485	-
$S_C(3n)$	(in ³)	1,380	-
$S_C(cr)$	(in ³)	-	1,765
DC1	(k/ft)	1.085	1.173
M _{DC1}	(k)	944	-2,024
DC2	(k/ft)	0.200	0.200
M _{DC2}	(k)	201	-411
DW	(k/ft)	0.304	0.304
M _{DW}	(k)	265	-545
LLDF		0.621	0.621
M _L + IM	(k)	1,670	-1,877
f_l (Strength I)	(ksi)	-	-
$M_U + \frac{1}{2} f_l S_{XC}$	(k)	4,751	-7,146
$\phi_f M_n$	(k)	6,904	7,804
f_s DC1	(ksi)	9.39	-14.29
f_s DC2	(ksi)	1.75	-2.79
f_s DW	(ksi)	2.30	-3.71
f_s (L+IM)	(ksi)	13.49	-12.76
f_l (Service II)	(ksi)	-	-
$f_s + f_l/2$ (Service II)	(ksi)	30.99	-37.38
$0.95R_h F_{yf}$	(ksi)	47.5	47.5
$f_s + f_l/3$ (Total)(Strength I)	(ksi)	-	-
$\phi_f F_n$	(ksi)	-	-
V _f	(k)	28.81	29.37

GIRDER 7 REACTION TABLE					
		Abut.		Pier	
		Interior	Exterior	Interior	Exterior
LLDF		-	0.621	-	0.621
OCF		-	-	-	-
R _{DC1}	(k)	-	46.56	-	165.63
R _{DC2}	(k)	-	9.40	-	32.59
R _{DW}	(k)	-	12.75	-	44.47
R _L	(k)	-	59.94	-	120.11
R _{Im}	(k)	-	13.25	-	22.43
R _{Total}	(k)	-	141.90	-	385.23

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 (in⁴ and in³).

$I_C(n), S_C(n)$: 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 (in⁴ and in³).

$I_C(3n), S_C(3n)$: 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 (in⁴ and in³).

$I_C(cr), S_C(cr)$: 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 (in⁴ and in³).

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.).
 M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_U (Strength I): Factored design moment (kip-ft.).
 1.25 (M_{DC1}+ M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM
 $\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (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_{nc}
 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)
 0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (L + IM)
 $\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
 V_f: Maximum factored shear range in span computed according to Article 6.10.10.

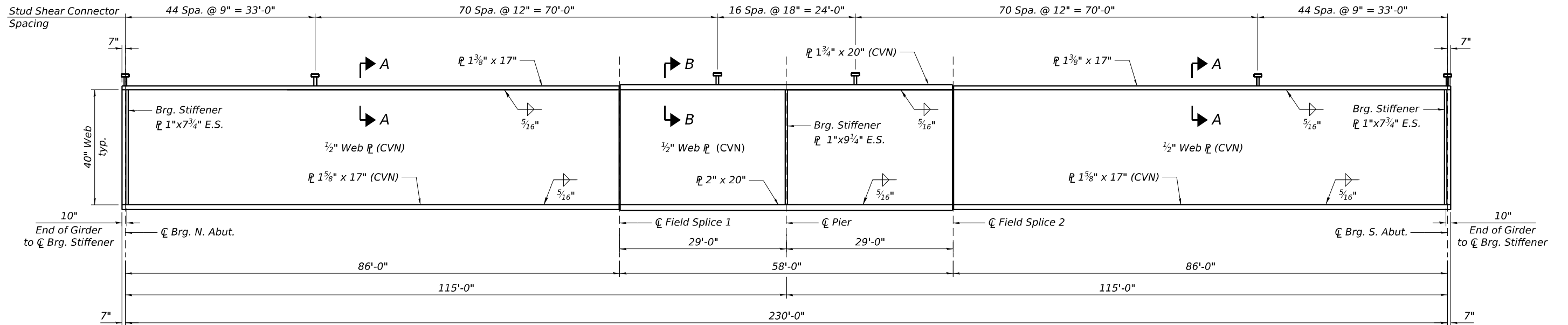


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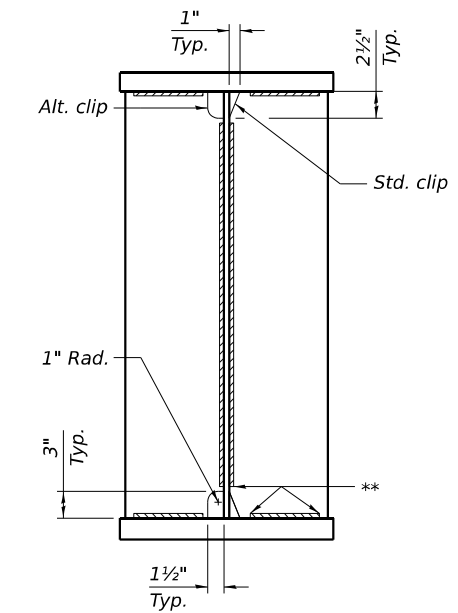
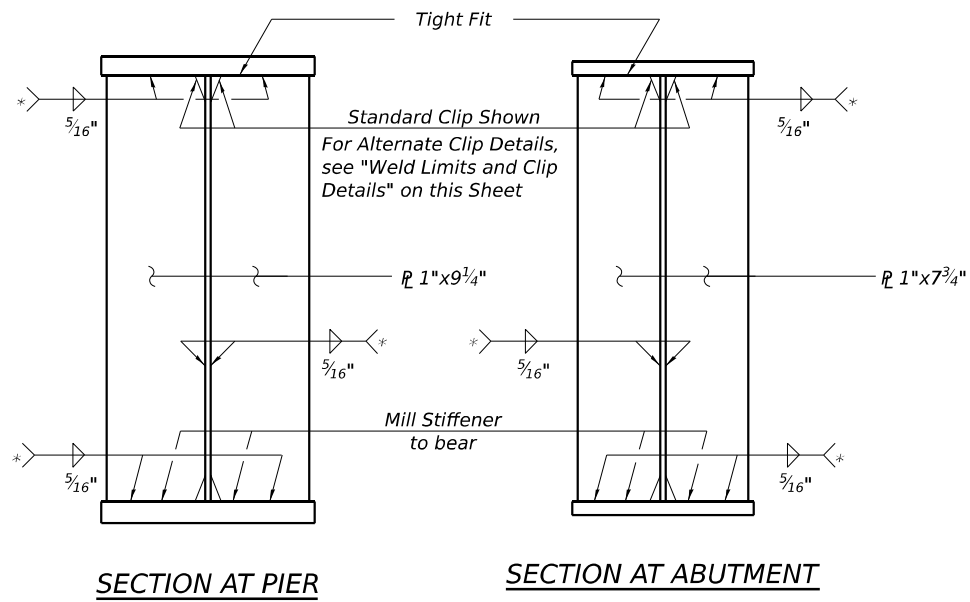
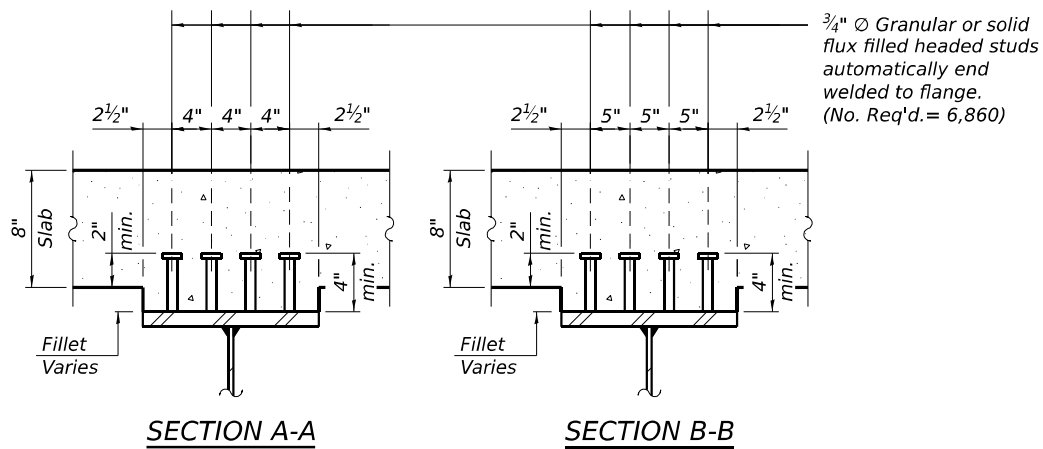
STATE OF ILLINOIS
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GIRDER MOMENT AND REACTION TABLES
 STRUCTURE NO. 099-8304

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		

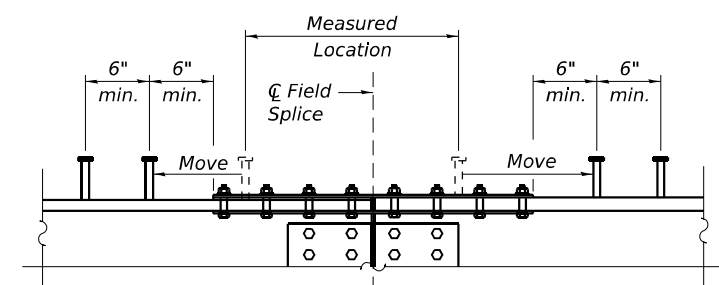


GIRDER ELEVATION



WELD LIMITS AND CLIP DETAILS
 ** Stop welds 1/4" ($\pm 1/8"$) from edges as shown. Typical.

* Terminate 1/4" ($\pm 1/8"$) from the end of plate intersects.



SHEAR CONNECTOR DETAIL AT SPLICES

DO NOT place shear connectors on splice plates. Move row of studs to 6" beyond nearest edge of splice plate from measured location.

NOTES:
 1. "CVN" denotes Charpy-V-Notch Impact Energy Requirements, Zone 2.

LEGEND:
 E.S. Each Side

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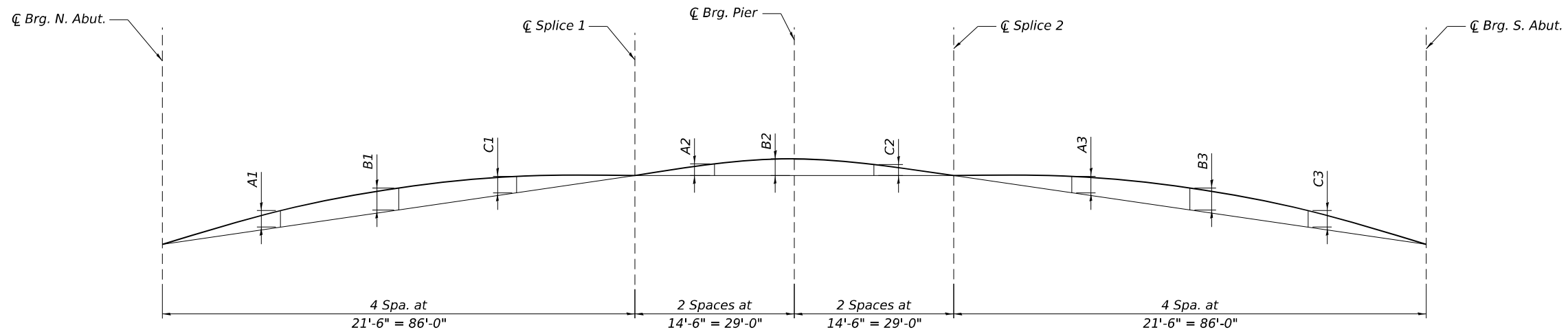
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GIRDER ELEVATION AND DETAILS
 STRUCTURE NO. 099-8304

SHEET S1-26 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62P67	
		ILLINOIS	FED. AID PROJECT	

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CAMBER DIAGRAM

CAMBER ORDINATES

Girders	A1	B1	C1	A2	B2	C2	A3	B3	C3
1-7	2 3/4"	4"	3"	3/4"	1"	3/4"	2 3/4"	3 3/4"	2 1/2"

TOP OF WEB ELEVATIONS

(For Fabrication Only)

Girder	CL. BRG. N. ABUT.	CL. SPLICE 1	CL. BRG. PIER	CL. SPLICE 2	CL. BRG. S. ABUT.
1	594.16	595.07	595.25	595.12	594.33
2	594.27	595.18	595.36	595.22	594.44
3	594.36	595.28	595.45	595.32	594.53
4	594.29	595.21	595.38	595.25	594.46
5	594.19	595.11	595.28	595.15	594.37
6	594.07	594.98	595.15	595.02	594.24
7	593.94	594.85	595.03	594.90	594.11



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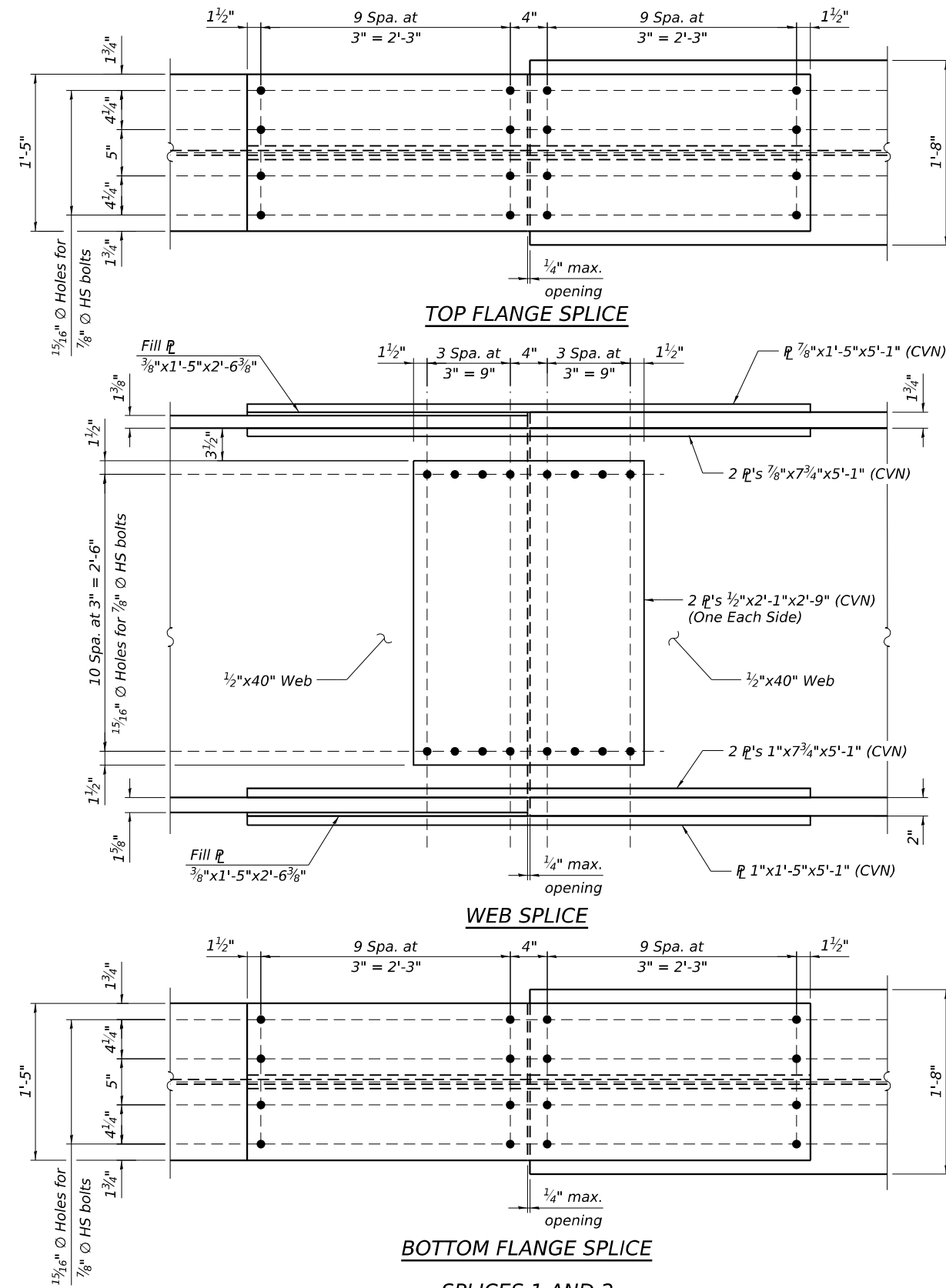
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CAMBER DIAGRAM
 STRUCTURE NO. 099-8304

SHEET S1-27 OF 51-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P67	

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SPLICES 1 AND 2
(GIRDERS 1 THRU 7)
 (Splice 1 Shown; Splice 2 Opposite Hand)
 (14 Required)

- NOTES:**
1. See Sheet S1-24 for girder framing plan.
 2. "CVN" denotes Charpy-V-Notch Impact Energy Requirements, Zone 2.
 3. Use 7/8" \varnothing H.S. bolts with 15/16" \varnothing holes for all splice connections.
 4. For Shear Connector Detail at Splices, see Sheet S1-26.



USER NAME =	DESIGNED - CP	REVISED -
	CHECKED - MI, JJS, SK	REVISED -
PLOT SCALE =	DRAWN - CP	REVISED -
PLOT DATE =	CHECKED - MI, JJS, SK	REVISED -

STATE OF ILLINOIS
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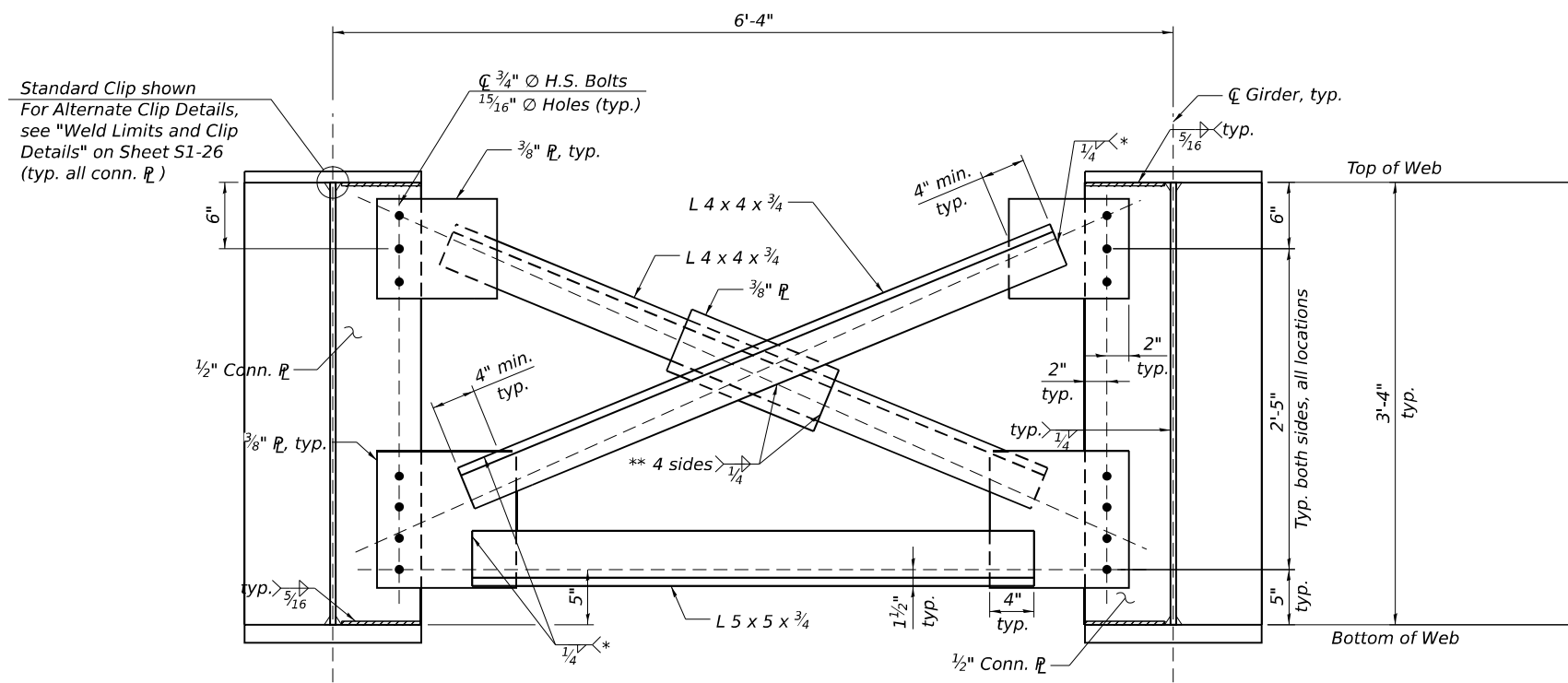
STRUCTURAL STEEL DETAILS (SHEET 1 OF 2)
STRUCTURE NO. 099-8304

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	52
CONTRACT NO. 62P67				

SHEET S1-28 OF S1-41 SHEETS

ILLINOIS FED. AID PROJECT

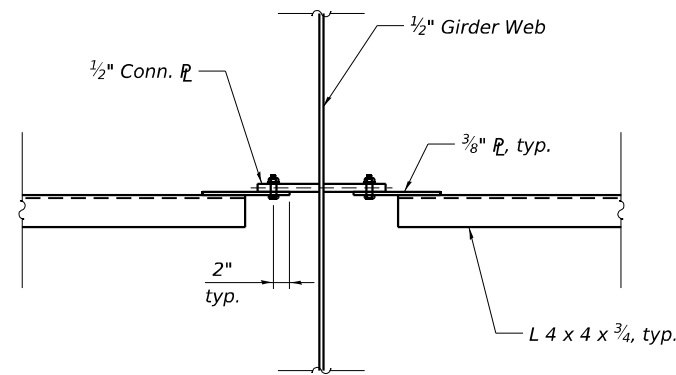
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INTERIOR CROSS FRAME (CF)
 (84 Required)

* Fillet weld angles along 3 sides on one face of gusset plate; however if cross-frames are galvanized, weld all-around.

** If cross-frames are galvanized, weld all-around.



INTERIOR CROSS FRAME PLAN

NOTES:

1. All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.
2. Provide 1 5/16" \emptyset Holes for 3/4" \emptyset High Strength bolts. Two hardened washers required for each set of oversized holes (typical all cross frame connections).



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PLOT DATE =	CHECKED - MI, JJS, SK	REVISED -

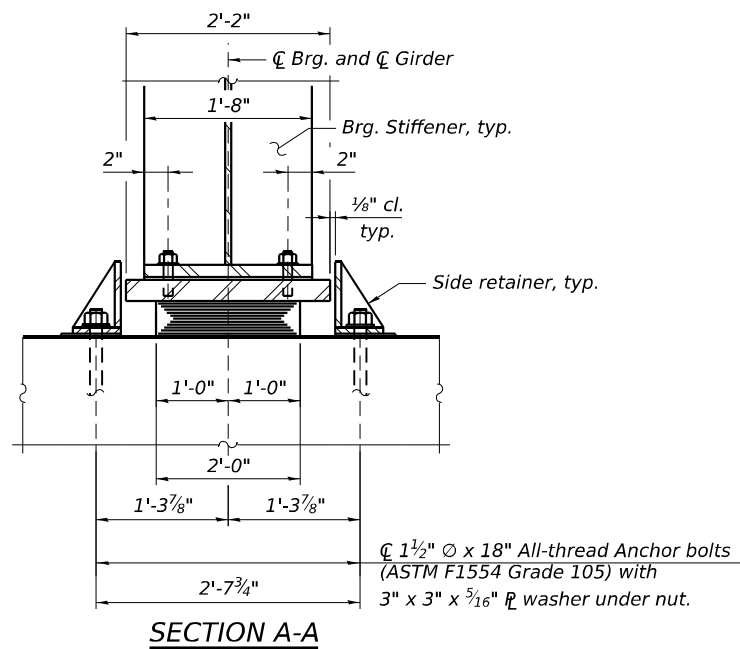
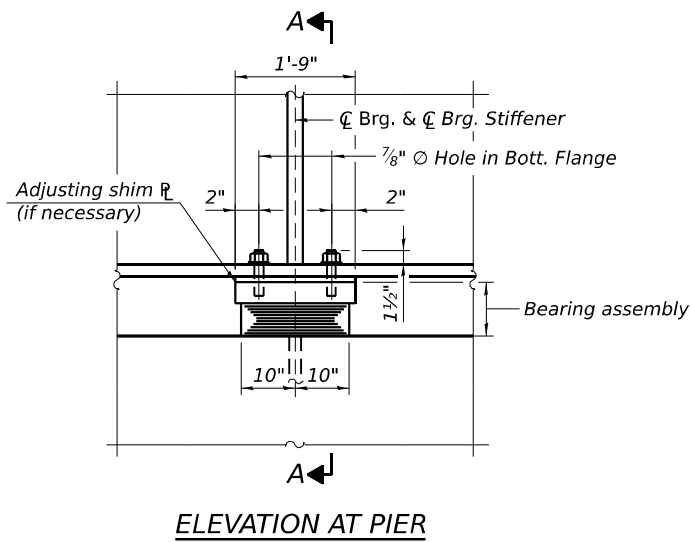
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS (SHEET 2 OF 2)
 STRUCTURE NO. 099-8304**

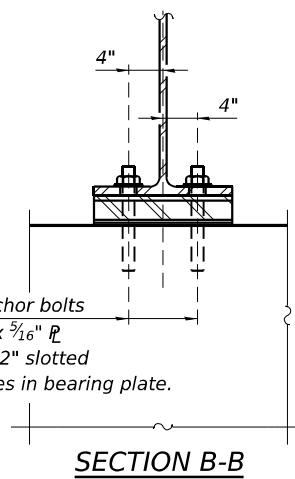
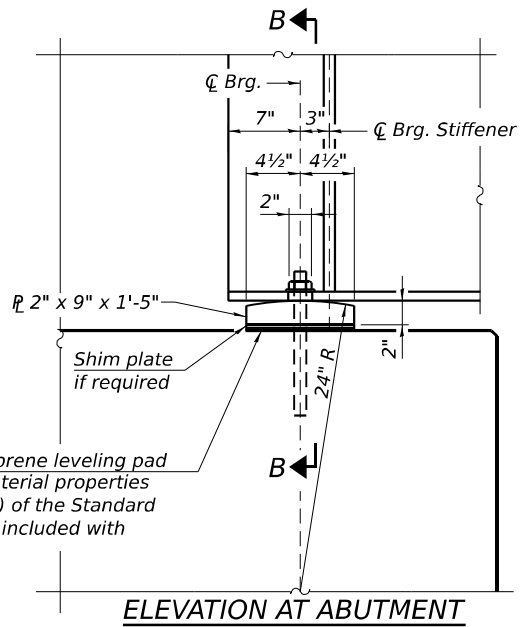
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	53
			CONTRACT NO. 62P67	
ILLINOIS		FED. AID PROJECT		

SHEET S1-29 OF S1-41 SHEETS

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TYPE I ELASTOMERIC EXP. BRG.
 (At Pier)
 (7 Required)



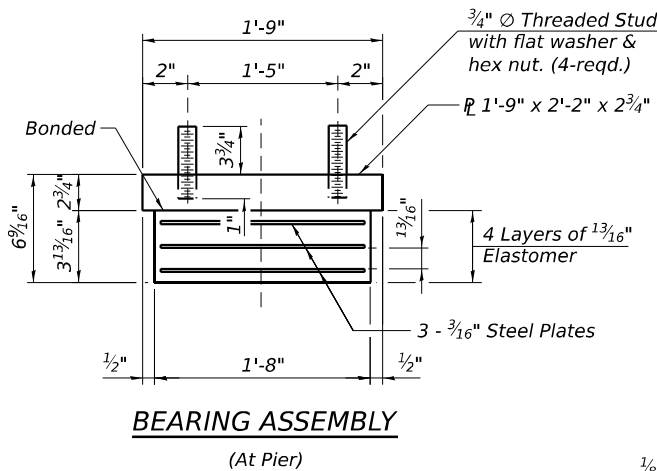
FIXED BEARING - INTEGRAL ABUTMENT
 (14 Required)

NOTES:

1. Side retainers, stainless steel plates and shim plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
3. All bearing plates, side retainers, shim plates, anchor bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable.
4. Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
5. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. See shim plate table.
6. Cost of steel plates for Fixed Bearings shall be included with Furnishing and Erecting Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	7
Anchor Bolts, 1"	Each	28
Anchor Bolts, 1 1/2"	Each	14

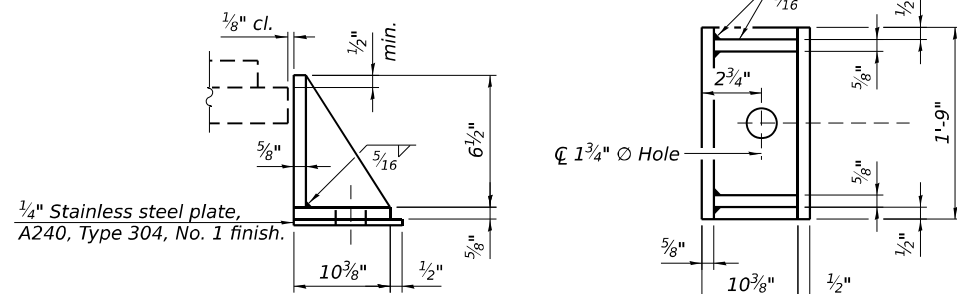


BEARING ASSEMBLY
 (At Pier)

Note:
 Shim plates shall not be placed under bearing assembly.

SHIM PLATE TABLE
 (For Pier)

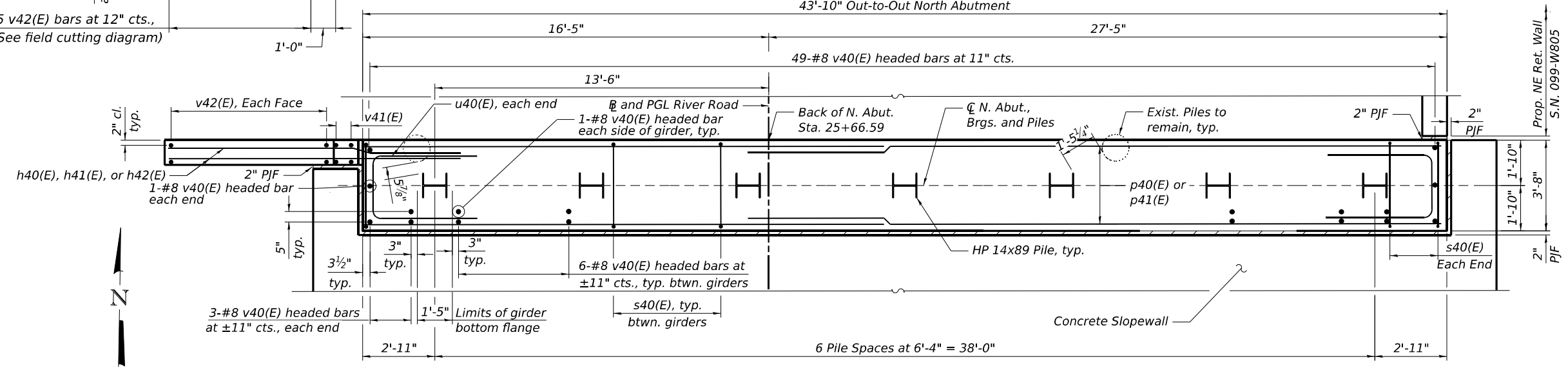
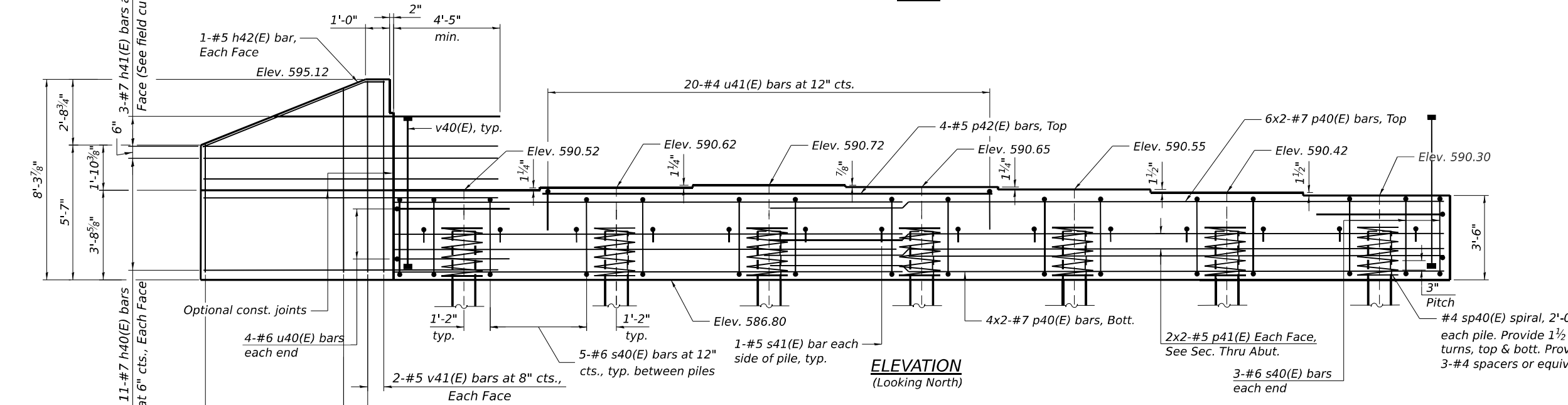
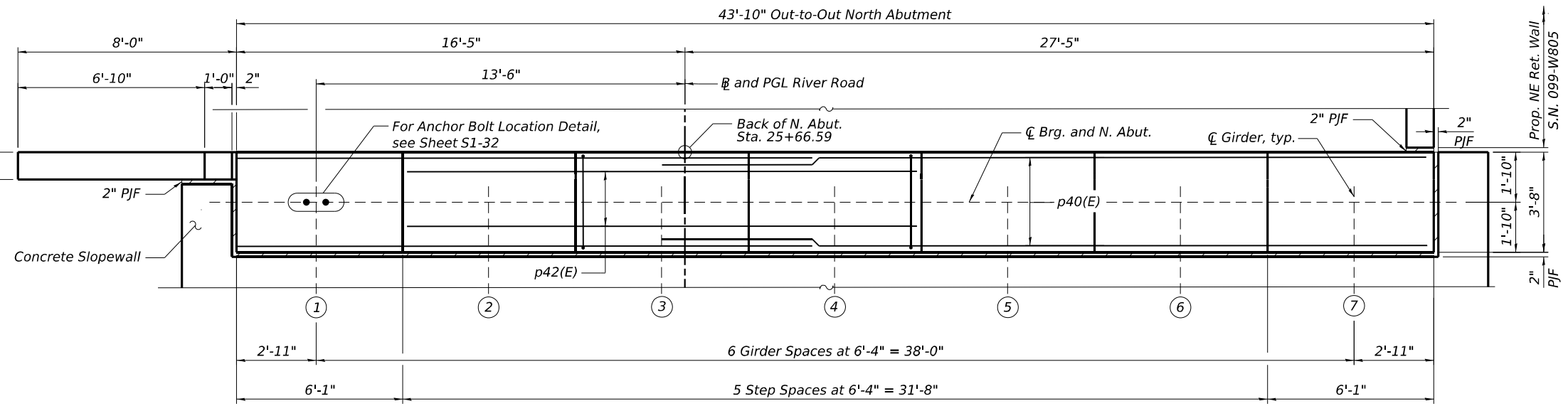
Girder	Pier
1	-
2	-
3	-
4	-
5	-
6	-
7	1/4"



SIDE RETAINER
 (At Pier)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

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PILE DATA
 Type: HP 14x89 with pile shoes
 Nominal Required Bearing: 419 Kips
 Factored Resistance Available: 388 Kips
 Est. Length: 36 Feet
 No. Production Piles: 7
 No. Test Piles: 0



USER NAME =	DESIGNED - JMI	REVISED -
	CHECKED - MI, JJS, SK	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE =	CHECKED - MI, JJS, SK	REVISED -

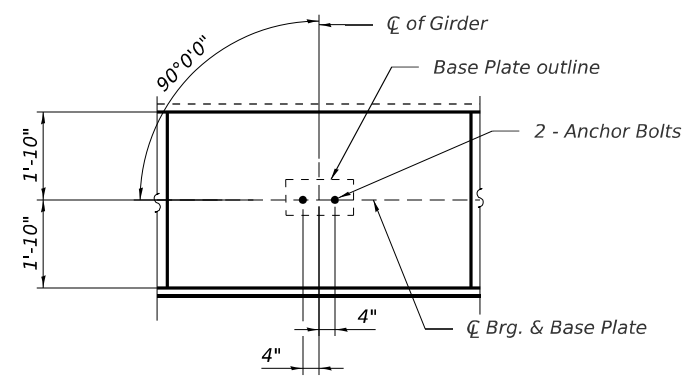
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT PLAN AND ELEVATION
 STRUCTURE NO. 099-8304

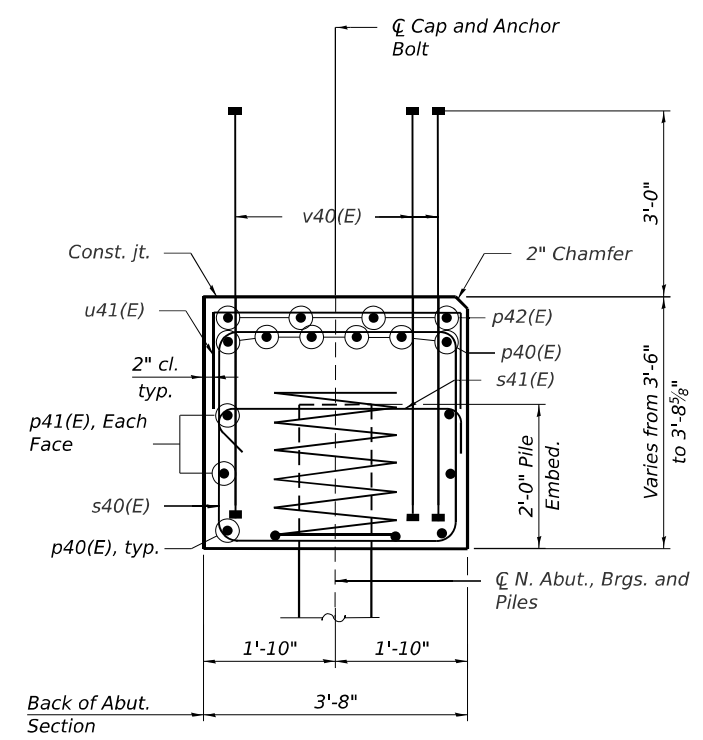
SHEET S1-31 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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ANCHOR BOLT LOCATION DETAIL



SEC. THRU ABUT.

MINIMUM BAR LAP

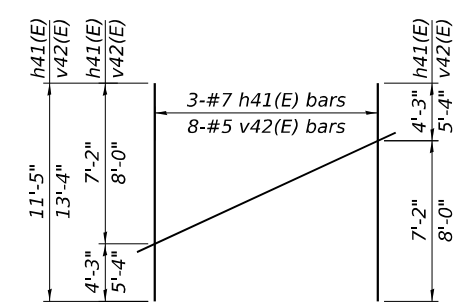
- #7 bar = 4'-5"
- #5 bar = 3'-2"

NOTES:

1. Piles shall be driven through 30" diameter precored holes extending to Elevation 576.66 according to Article 512.09 (c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.
2. For diaphragm details, see Sheet S1-17.
3. For details of piles, see Sheet S1-37.
4. Bars noted thus, 4x2-#7 indicates 4 lines of #7 bars with 2 lengths per line.
5. Pour steps monolithically with cap.
6. 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.
7. Space reinforcement in cap to miss anchor bolts.

BILL OF MATERIAL

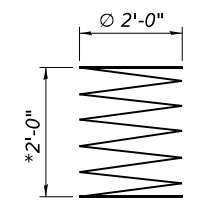
Bar	No.	Size	Length	Shape
h40(E)	22	#7	12'-3"	—
h41(E)	6	#7	11'-5"	—
h42(E)	2	#5	8'-3"	—
p40(E)	20	#7	24'-0"	—
p41(E)	8	#5	23'-4"	—
p42(E)	4	#5	18'-8"	—
s40(E)	36	#6	14'-4"	⊓
s41(E)	14	#5	4'-4"	⊓
*sp40(E)	7	#4	2'-0"	⊓
u40(E)	8	#6	11'-10"	⊓
u41(E)	20	#4	5'-4"	⊓
v40(E)	107	#8	6'-5"	—
v41(E)	4	#5	8'-0"	—
v42(E)	8	#5	13'-4"	—
Structure Excavation		Cu Yd	92.0	
Concrete Structures		Cu Yd	24.5	
Reinforcement Bars, Epoxy Coated		Pound	5,010	
Furnishing Steel Piles HP14X89		Foot	252	
Driving Piles		Foot	252	
Pile Shoes		Each	7	
Concrete Sealer		Sq Ft	236	
Geocomposite Wall Drain		Sq Yd	43	
Granular Backfill For Structures		Cu Yd	99	
Pipe Underdrains for Structures 4"		Foot	56	



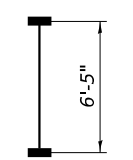
FIELD CUTTING DIAGRAM

Order h41(E) and v42(E) full length. Cut as shown and use remainder of bars in opposite face.

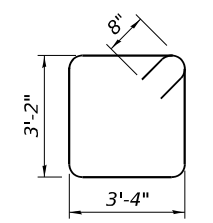
* Length is height of spiral.



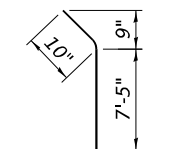
BAR sp40(E)



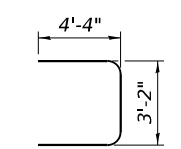
BAR v40(E) (Headed)



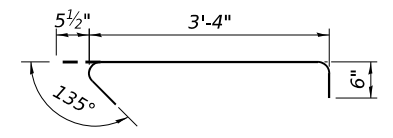
BAR s40(E)



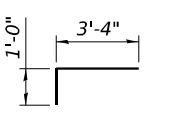
BAR h42(E)



BAR u40(E)



BAR s41(E)



BAR u41(E)



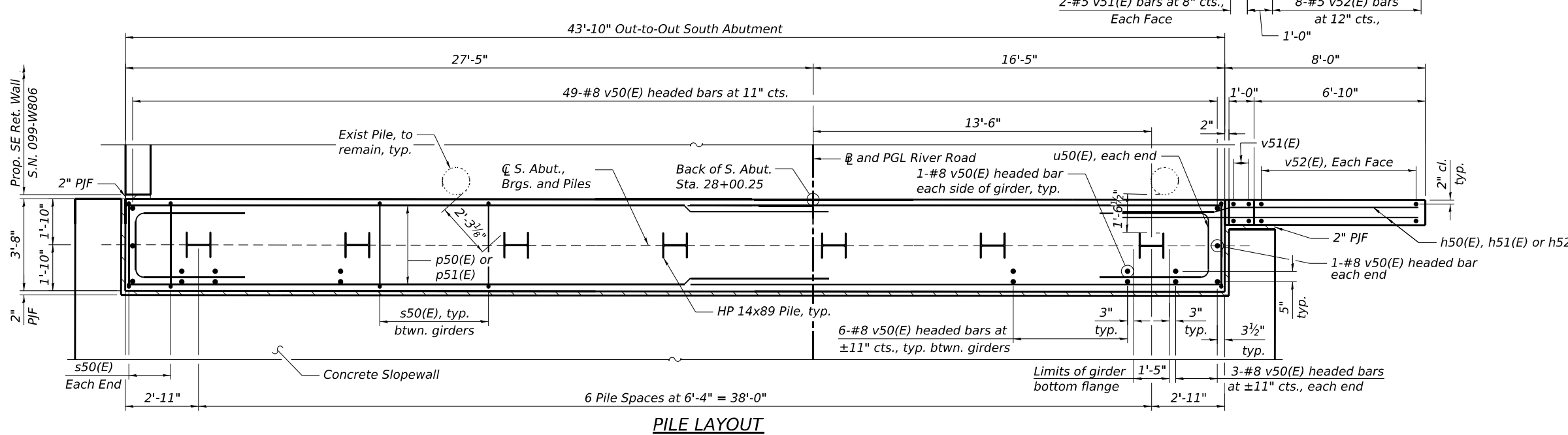
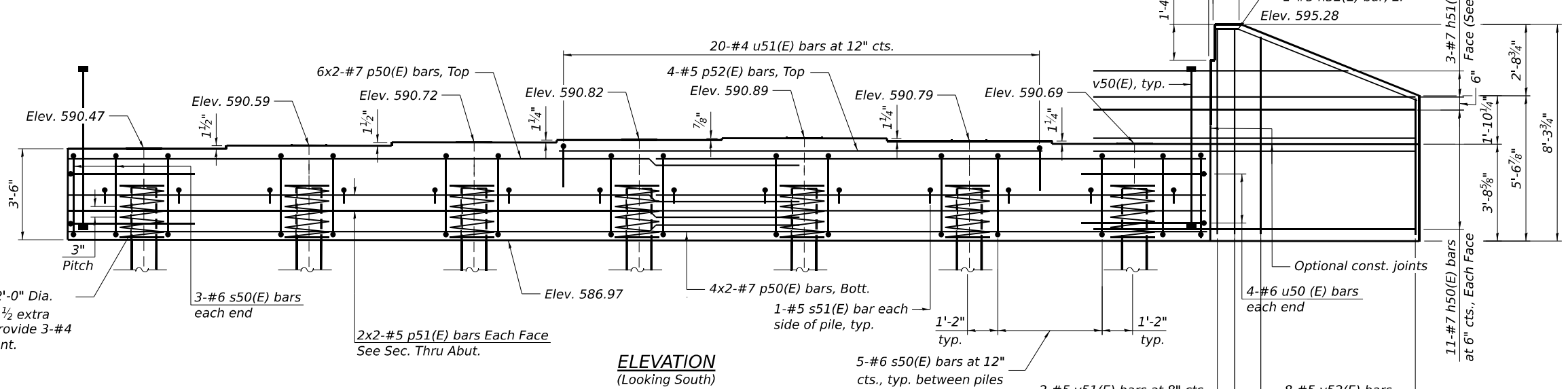
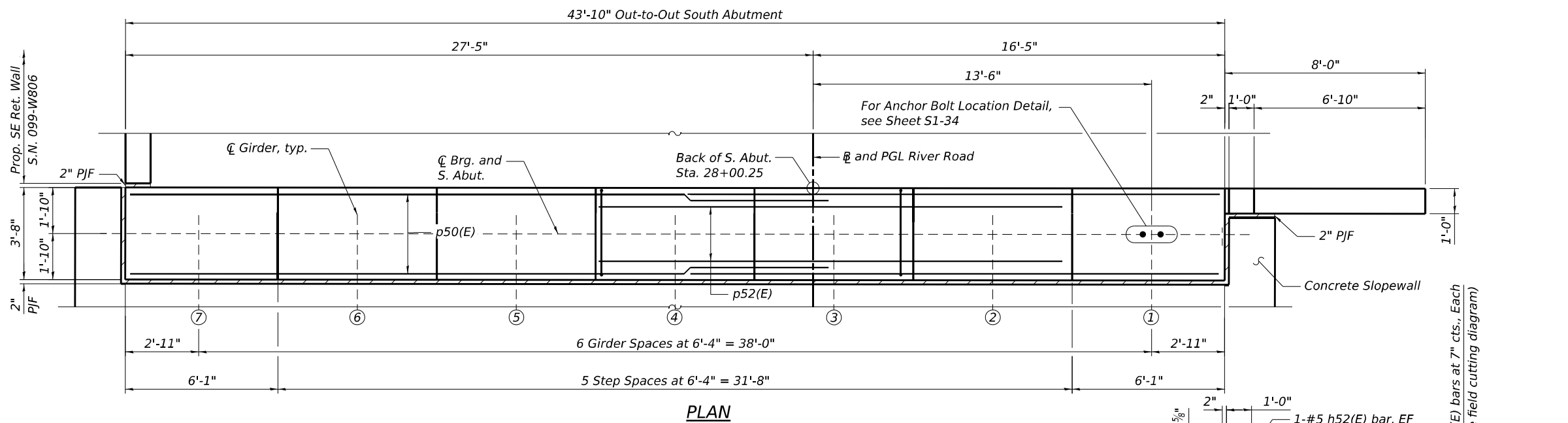
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PLOT DATE =	CHECKED - MI, JJS, SK	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT SECTIONS AND DETAILS
 STRUCTURE NO. 099-8304**

SHEET S1-32 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	56
			CONTRACT NO. 62P67	
ILLINOIS FED. AID PROJECT				



PILE DATA

Type: HP 14x89 with pile shoes

Nominal Required Bearing: 419 Kips

Factored Resistance Available: 388 Kips

Est. Length: 34 Feet

No. Production Piles: 7

No. Test Piles: 0

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STATE OF ILLINOIS
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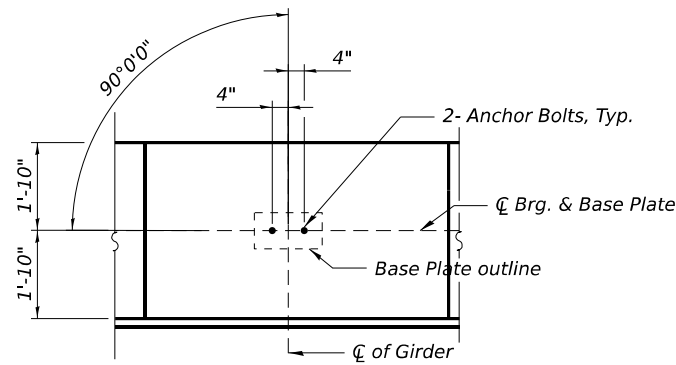
SOUTH ABUTMENT PLAN AND ELEVATION
 STRUCTURE NO. 099-8304

SHEET S1-33 OF S1-41 SHEETS

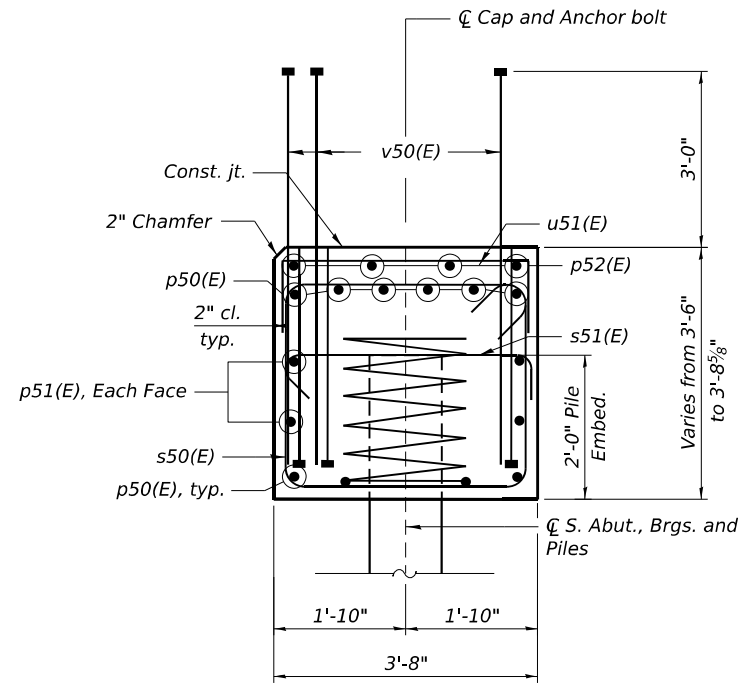
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			CONTRACT NO. 62P67	

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ANCHOR BOLT LOCATION DETAIL



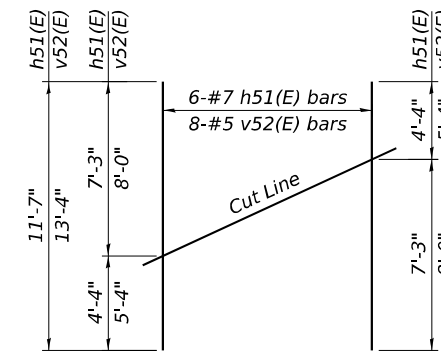
SEC. THRU ABUT.

MINIMUM BAR LAP

#7 bar = 4'-5"
 #5 bar = 3'-2"

NOTES:

1. Piles shall be driven through 30" diameter precored holes extending to Elevation 576.66 according to Article 512.09 (c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Q_u of 1.5 tsf.
2. For diaphragm details, see Sheet S1-17.
3. For details of piles, see Sheet S1-37.
4. Bars noted thus, 4x2-#7 indicates 4 lines of #7 bars with 2 lengths per line.
5. Pour steps monolithically with cap.
6. 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.
7. Space reinforcement in cap to miss anchor bolts.



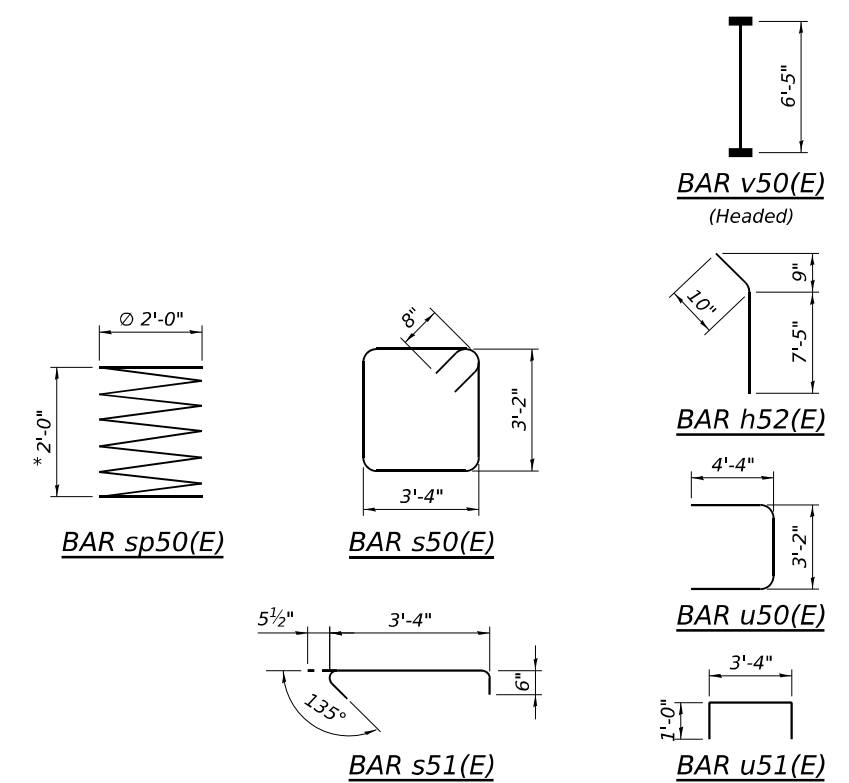
FIELD CUTTING DIAGRAM

Order h51(E) and v52(E) full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h50(E)	22	#7	12'-3"	—
h51(E)	6	#7	11'-7"	—
h52(E)	2	#5	8'-3"	—
p50(E)	20	#7	24'-0"	—
p51(E)	8	#5	23'-4"	—
p52(E)	4	#5	18'-8"	—
s50(E)	36	#6	14'-4"	□
s51(E)	14	#5	4'-4"	—
*sp50(E)	7	#4	2'-0"	W
u50(E)	8	#6	11'-10"	—
u51(E)	20	#4	5'-4"	—
v50(E)	107	#8	6'-5"	—
v51(E)	4	#5	8'-0"	—
v52(E)	8	#5	13'-4"	—
Structure Excavation		Cu Yd	83.8	
Concrete Structures		Cu Yd	24.5	
Reinforcement Bars, Epoxy Coated		Pound	4,930	
Furnishing Steel Piles HP14X89		Foot	238	
Driving Piles		Foot	238	
Pile Shoes		Each	7	
Concrete Sealer		Sq Ft	236	
Geocomposite Wall		Sq Yd	43	
Granular Backfill For Structures		Cu Yd	96	
Pipe Underdrains for Structures 4"		Foot	56	

*Length is height of spiral



STATE OF ILLINOIS
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SOUTH ABUTMENT SECTION AND DETAILS
 STRUCTURE NO. 099-8304

SHEET S1-34 OF S1-41 SHEETS

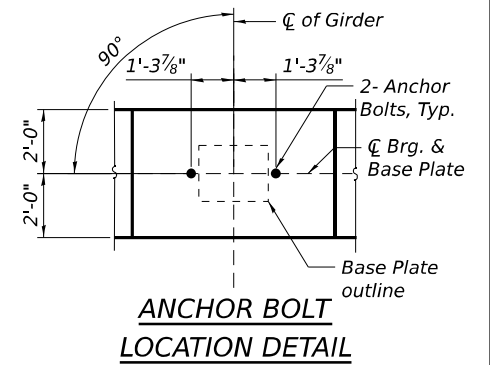
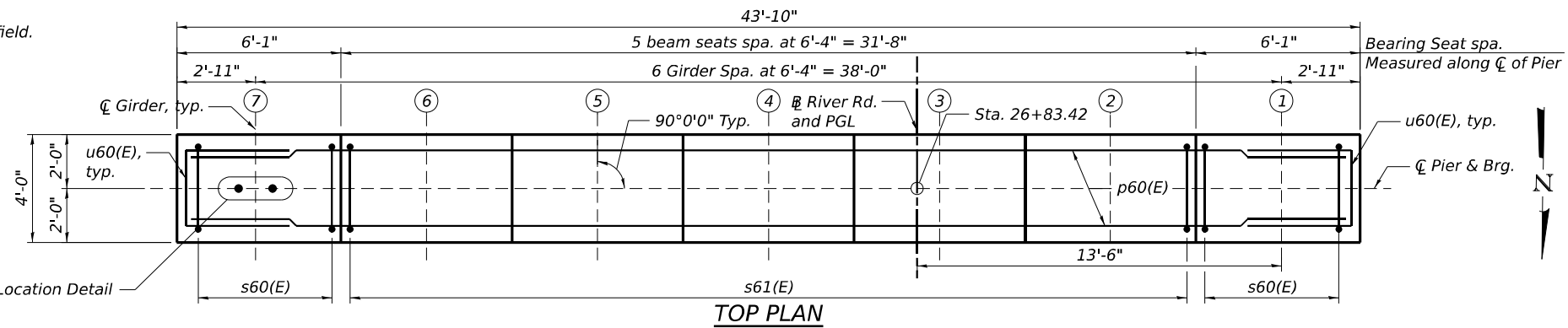
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CONTRACT NO. 62P67				



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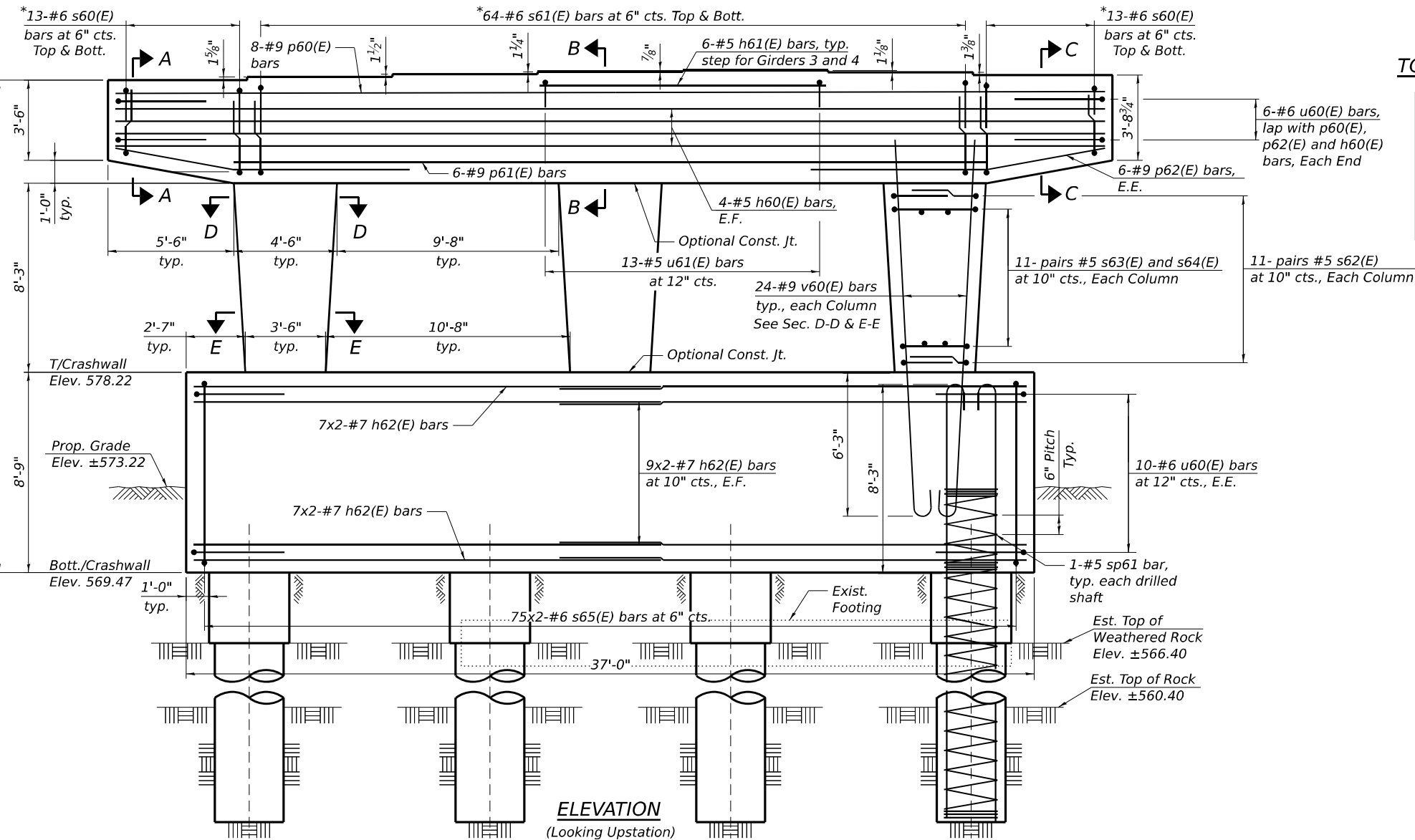
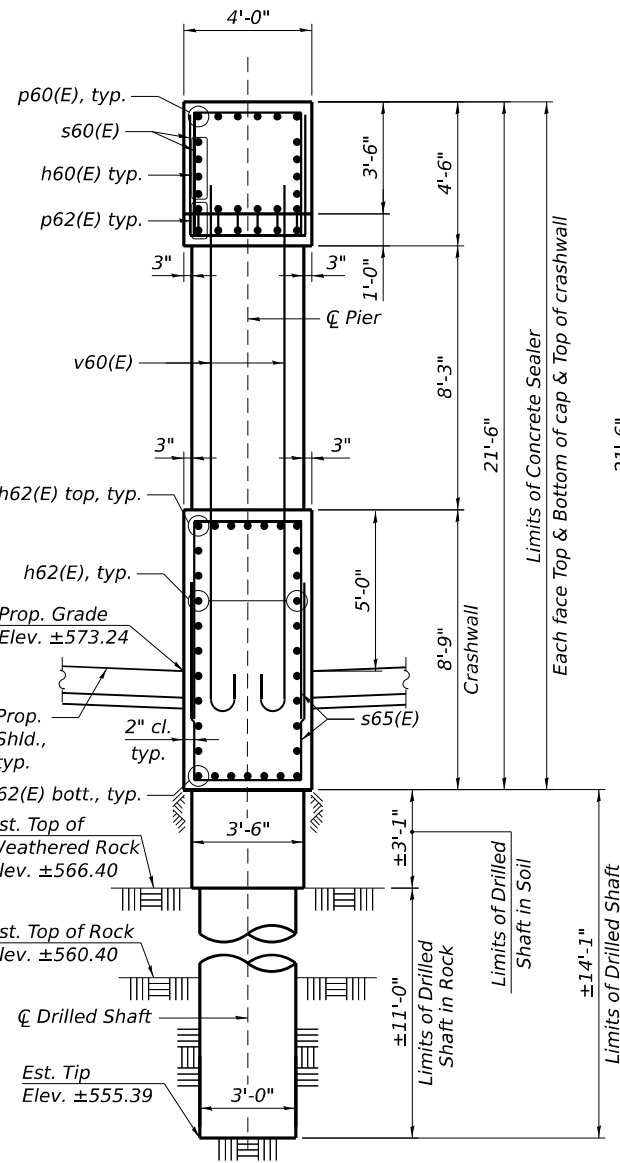
ILLINOIS FED. AID PROJECT

*Cut bars to fit in field.



TOP OF SEAT ELEVATION

Girder No.	Seat Elevation
1	591.20
2	591.31
3	591.40
4	591.33
5	591.23
6	591.11
7	590.96



NOTES:

1. For Anchor Bolt Details, see this sheet.
2. For details of drilled shafts, Minimum Bar Laps Table and Sections A-A thru E-E, see Sheet S1-36.
3. Bars indicated thus 7x2-#9 etc. indicates 7 lines of bars with 2 lengths per line.
4. Pour steps monolithically with cap.
5. Apply concrete sealer to all exposed concrete surfaces of the pier.
6. Space reinforcement in cap to miss anchor bolts.

END VIEW

ELEVATION
(Looking Upstation)

CRASHWALL/DRILLED SHAFTS PLAN

LEGEND

- E.E. Each End
- E.F. Each Face

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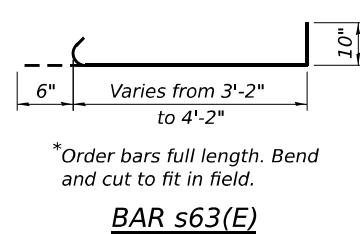
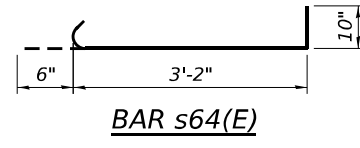
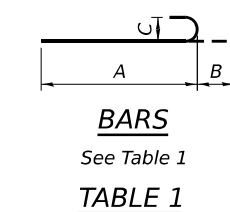
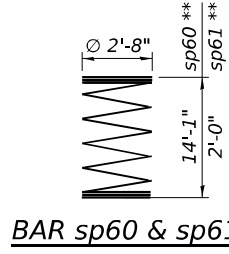
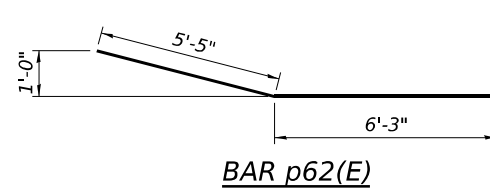
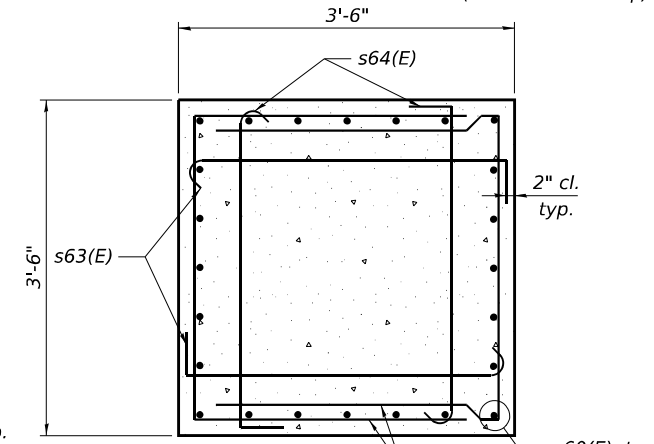
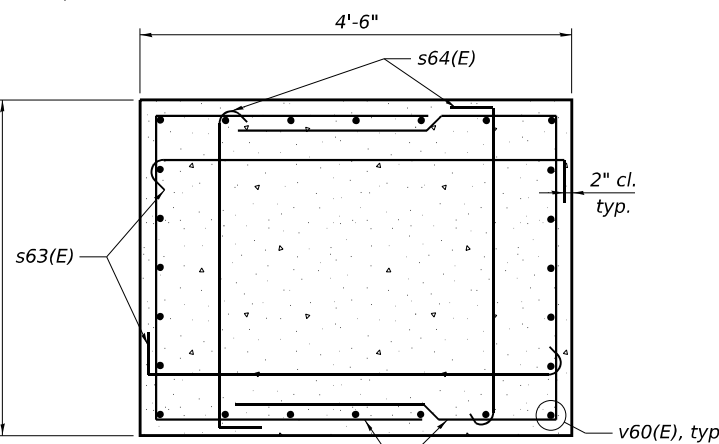
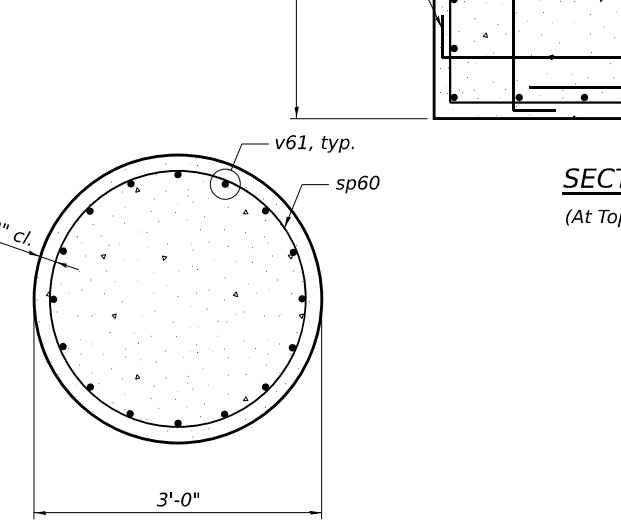
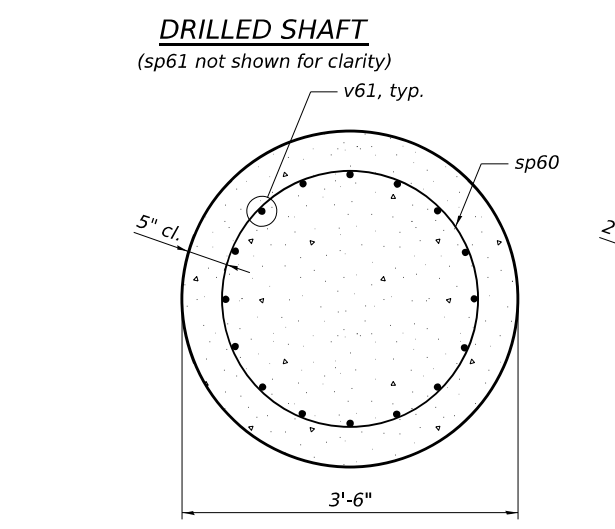
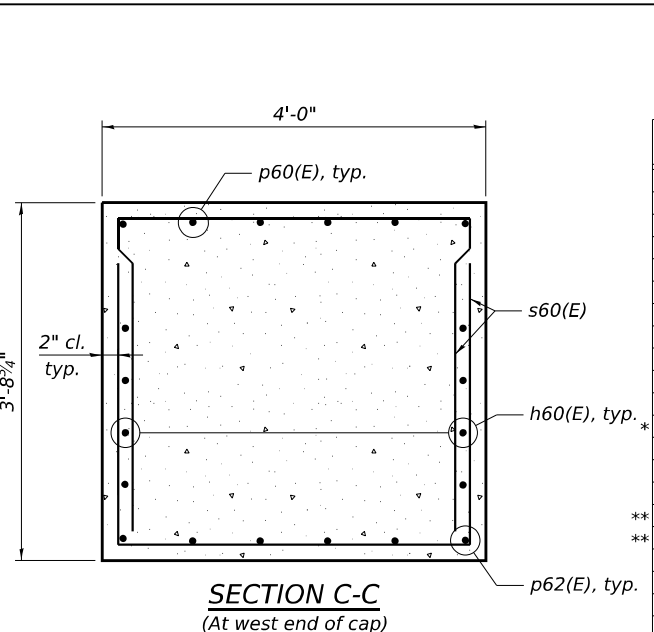
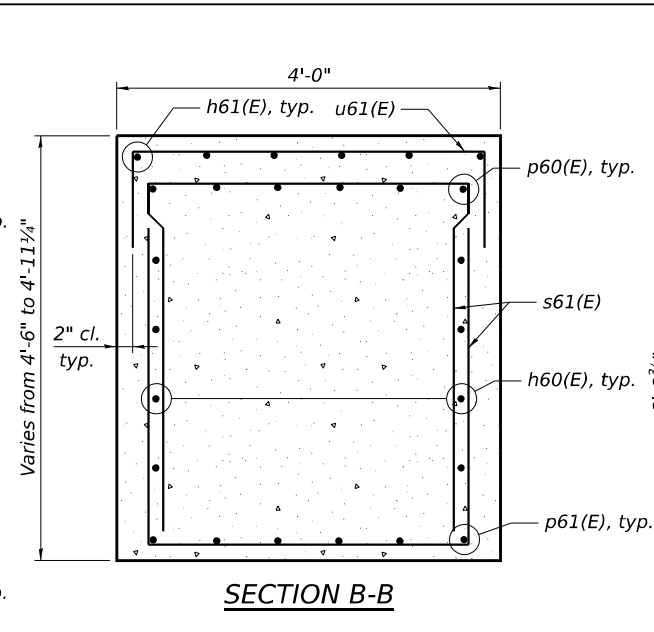
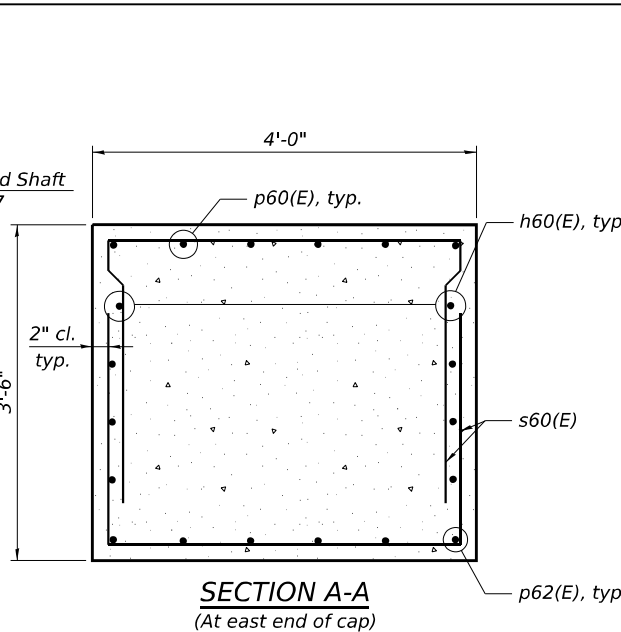
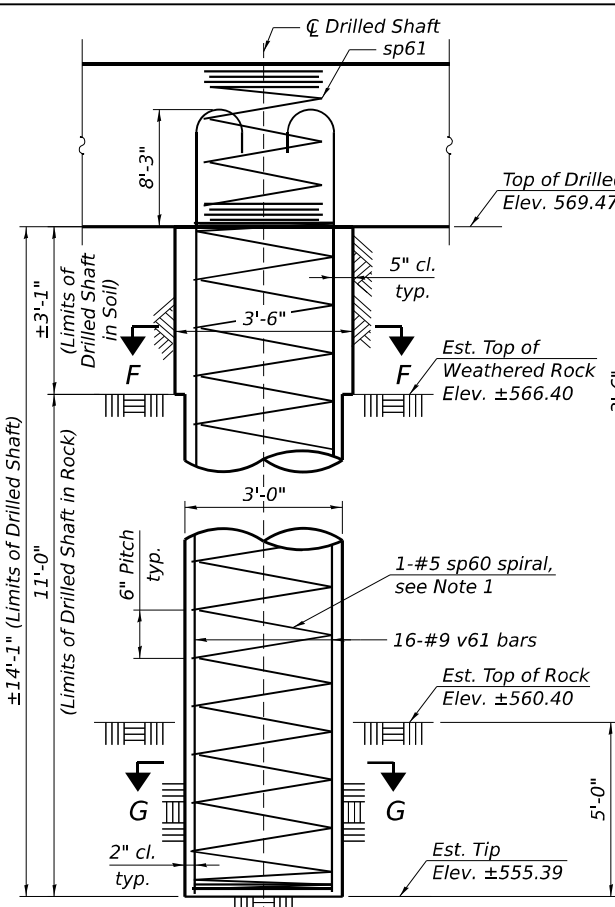
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER PLAN AND ELEVATION
STRUCTURE NO. 099-8304

SHEET S1-35 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	59
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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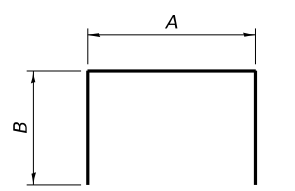
**PIER
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h60(E)	8	#5	43'-6"	—
h61(E)	6	#5	12'-4"	—
h62(E)	64	#7	20'-7"	—
p60(E)	8	#9	43'-6"	—
p61(E)	6	#9	31'-8"	—
p62(E)	12	#9	11'-8"	—
s60(E)	52	#6	12'-0"	⊏
s61(E)	128	#6	12'-10"	⊏
s62(E)	66	#5	10'-0"	⊏
s63(E)	66	#5	5'-6"	⊏
s64(E)	66	#5	4'-6"	⊏
s65(E)	150	#6	16'-0"	⊏
sp60	4	#5	14'-1"	⊏
sp61	4	#5	2'-0"	⊏
u60(E)	32	#6	11'-4"	⊏
u61(E)	13	#5	5'-8"	⊏
v60(E)	72	#9	17'-4"	⊏
v61	64	#9	23'-7"	⊏

Structure Excavation	Cu Yd	122.2
Concrete Structures	Cu Yd	90.9
Reinforcement Bars	Pound	5,580
Reinforcement Bars, Epoxy Coated	Pound	18,690
Drilled Shaft In Soil	Cu Yd	4.4
Drilled Shaft In Rock	Cu Yd	11.6
Concrete Sealer	Sq Ft	1,909
Foundation Construction At Existing Obstructions	Each	3

** Length is height of spiral

Minimum Bar Laps	
Bar	Lap
#5	3'-2"
#6	3'-10"
#7	4'-5"
#9	6'-3"



BARS
See Table 2

TABLE 2

Bar	A	B
s60(E)	3'-8"	4'-2"
s61(E)	3'-8"	4'-7"
s62(E)	3'-8"	3'-2"
s65(E)	3'-8"	6'-2"
u60(E)	3'-8"	3'-10"
u61(E)	3'-8"	1'-0"

NOTES:

- #5 sp60 spiral, each drilled shaft
 - Provide 1½ extra turns, shop welded together per AWS D1.4 top and bottom. Extend spiral 3" into pier cap. Provide 4-#4 spacers or equivalent.
 - When splicing spiral reinforcement is necessary, the spiral shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
 - Spirals are measured vertically.
- The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.

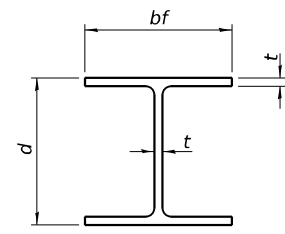


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PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - CP	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

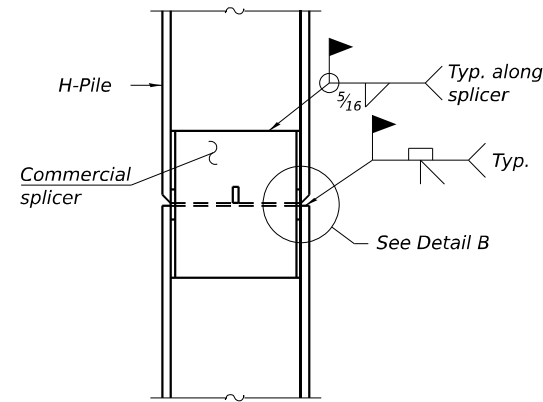
**PIER SECTIONS AND DETAILS
STRUCTURE NO. 099-8304**

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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

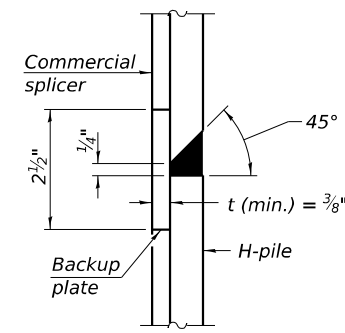


STEEL PILE TABLE

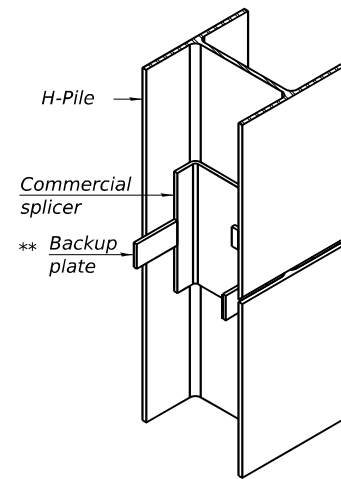
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 3/8"	1/2"	24"
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

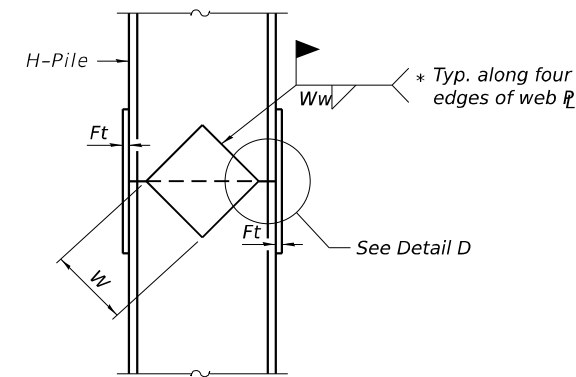


DETAIL "B"

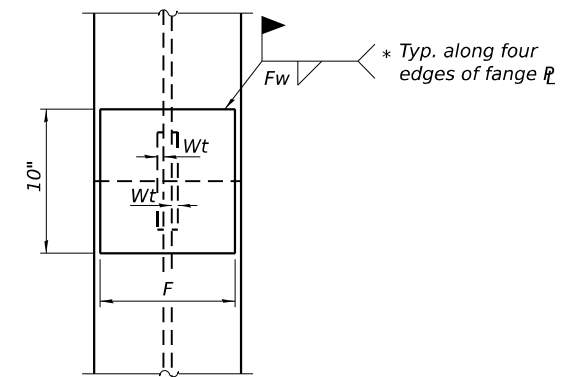


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



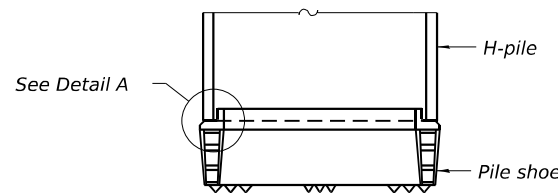
ELEVATION



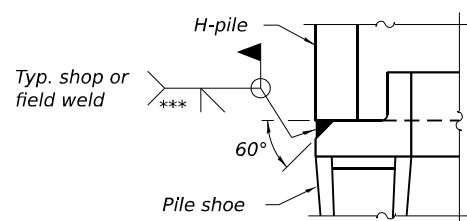
END VIEW

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"	1 1/16"	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"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	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

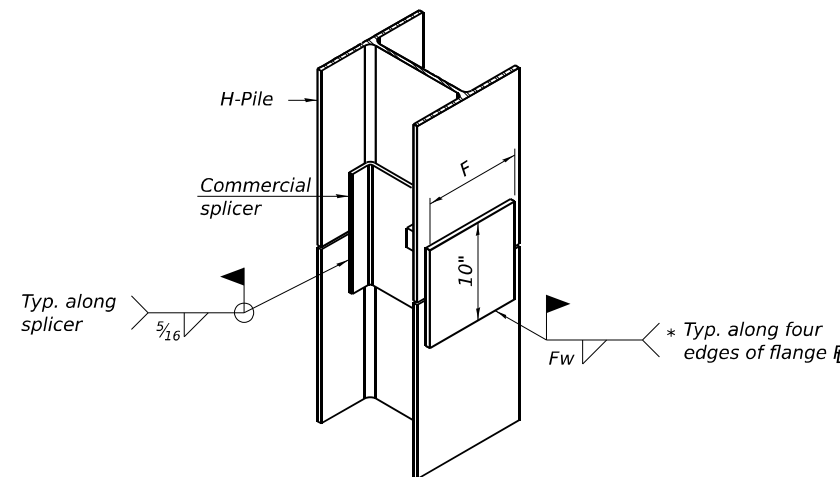


ELEVATION



DETAIL A

SHOE ATTACHMENT



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 (3/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

MODEL: Default
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F-HP 1-1-2020



USER NAME =	DESIGNED - EBK	REVISED -
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PLOT DATE =	DRAWN - EBK	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

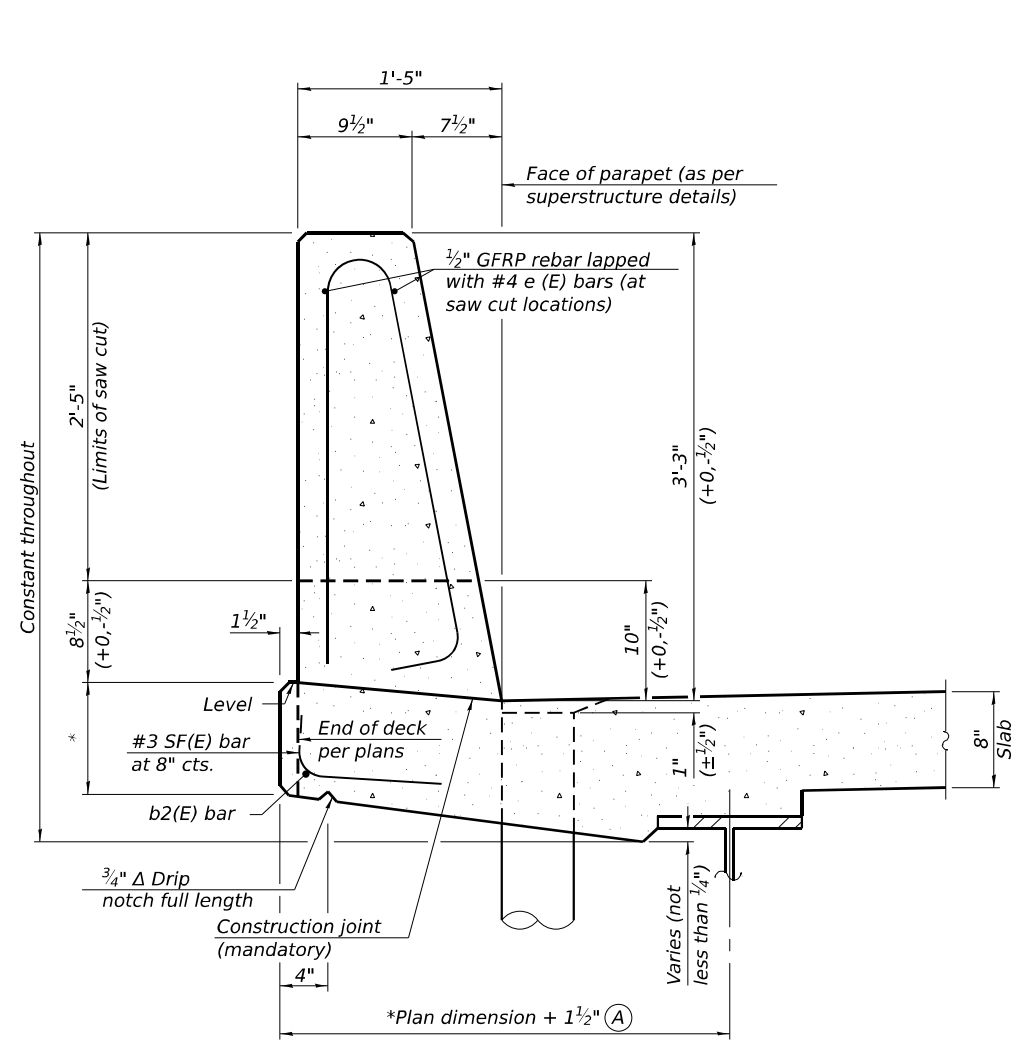
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 099-8304

SHEET S1-37 OF S1-41 SHEETS

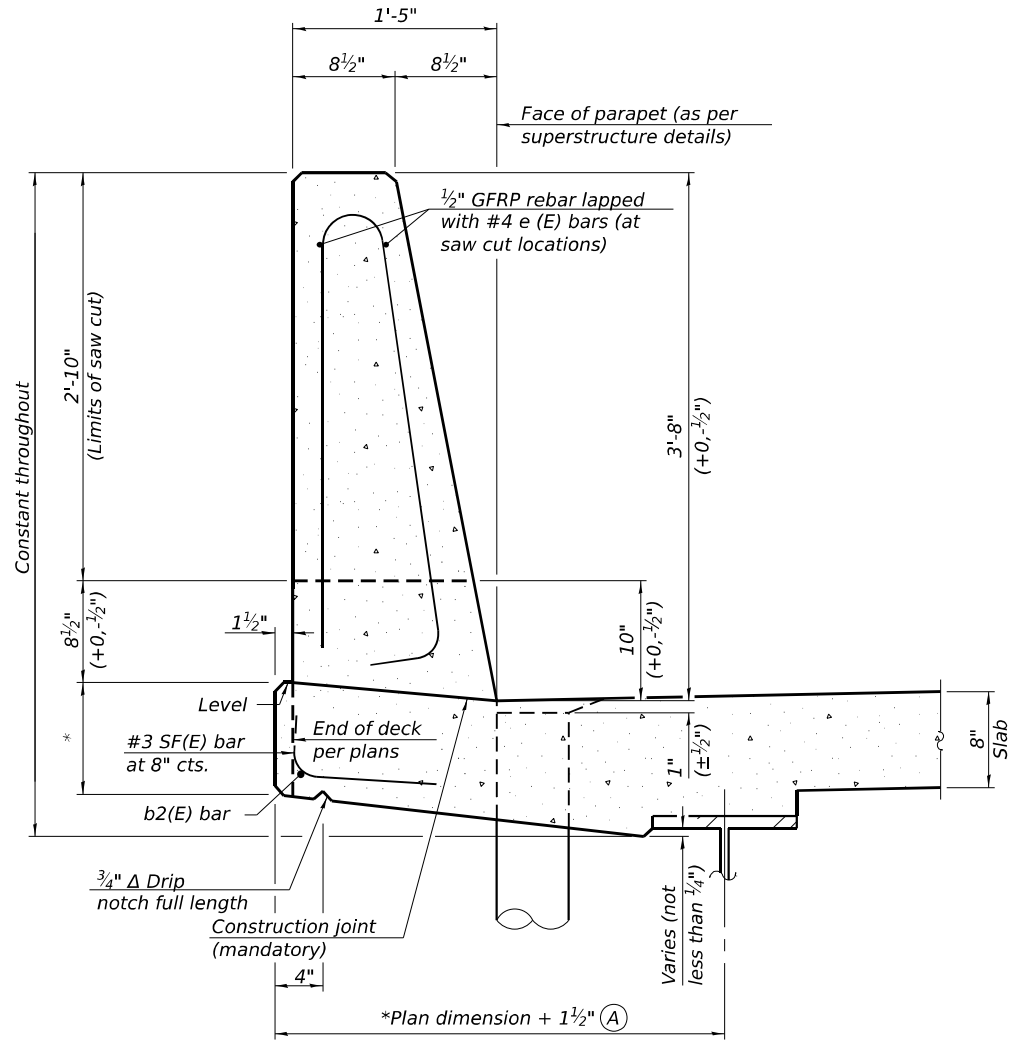
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80	2021-151-B	WILL	139	61
			CONTRACT NO. 62P67	
		ILLINOIS	FED. AID PROJECT	

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**39" CONSTANT-SLOPE
 PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

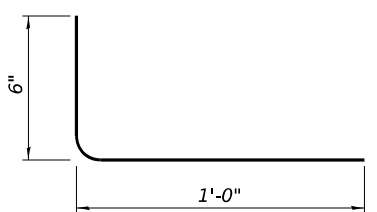


**44" CONSTANT-SLOPE
 PARAPET SECTION**

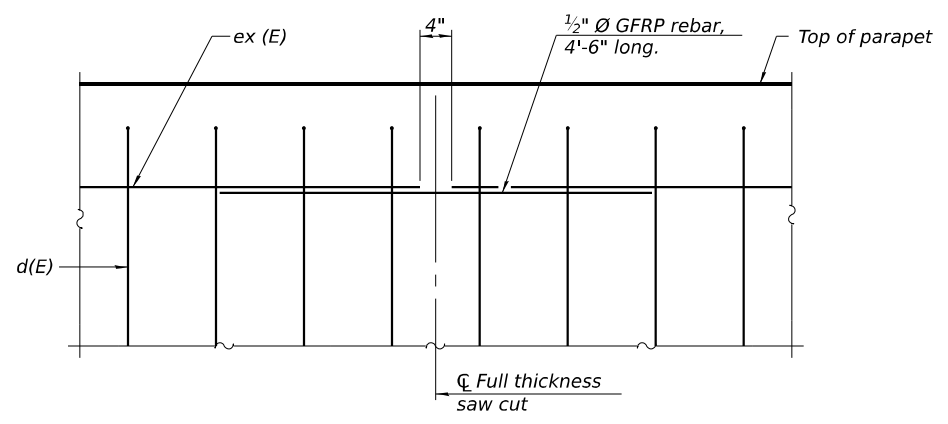
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

Notes:
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
 Place full depth aluminum sheets as shown on superstructure details.
 Replace all cork joint filler locations with a full thickness saw cut.
 Steel superstructure shown. Other superstructure types similar.

*See Superstructure Details.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

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

SFP 39-44

11-1-2022



USER NAME =	DESIGNED - CP	REVISED -
PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - CP	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
 STRUCTURE NO. 099-8304**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	62
CONTRACT NO. 62P67				

SHEET S1-38 OF S1-41 SHEETS

ILLINOIS FED. AID PROJECT

1/26/2023 8:04:10 AM



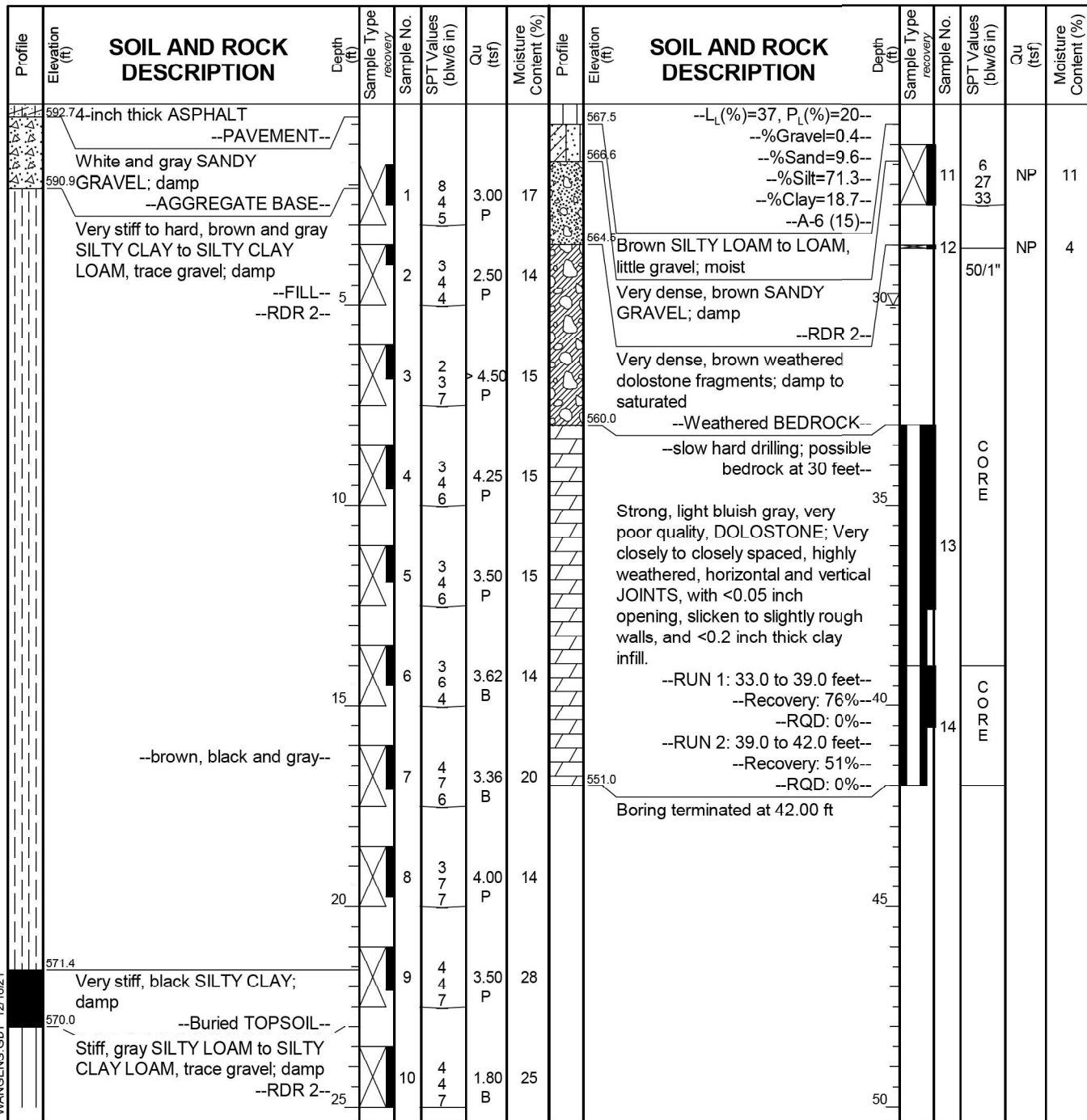
BORING LOG RIV-BSB-01

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client **Stantec**
Project **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location **Will County, Illinois**

Datum: NAVD88
Elevation: 592.99 ft
North: 1755364.55 ft
East: 1016267.85 ft
Station: 25+55.5
Offset: 9.0 LT



GENERAL NOTES

Begin Drilling **11-17-2021** Complete Drilling **11-17-2021**
Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
Driller **RH&JD** Logger **M. Rojo** Checked by **C. Marin**
Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **30.00 ft**
At Completion of Drilling **core wash 3ft**
Time After Drilling **NA**
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



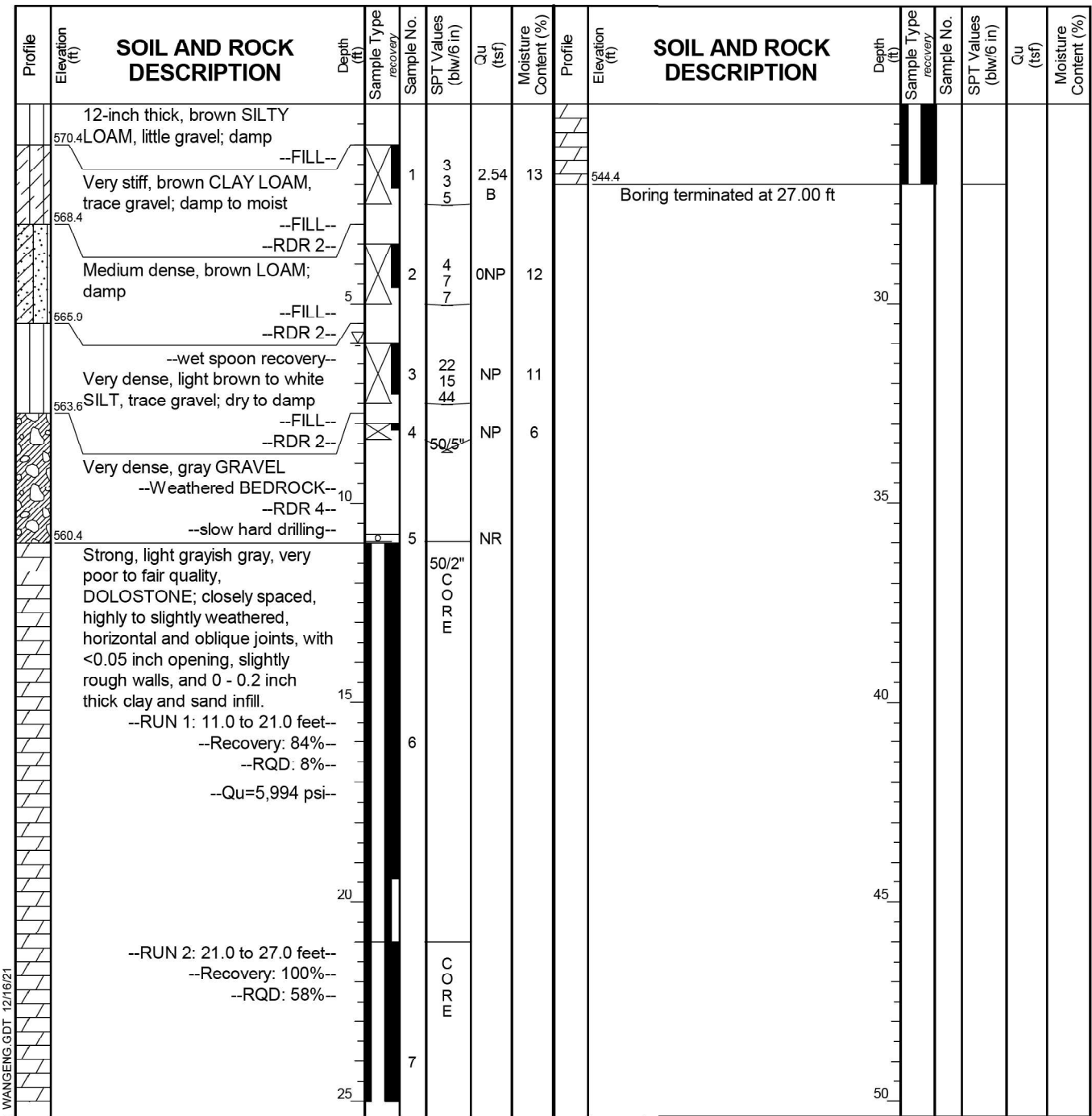
BORING LOG RIV-BSB-02

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1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client **Stantec**
Project **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location **Will County, Illinois**

Datum: NAVD 88
Elevation: 571.35 ft
North: 1755220.91 ft
East: 1016234.58 ft
Station: 26+97.1
Offset: 24.8 RT



GENERAL NOTES

Begin Drilling **11-22-2021** Complete Drilling **11-22-2021**
Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
Driller **JS&MG** Logger **A. Scifers** Checked by **C. Marin**
Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **6.00 ft**
At Completion of Drilling **mud in borehole**
Time After Drilling **NA**
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
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WANGENG 2553901.GPJ WANGENG.GDT 12/16/21
WANGENG 2553901.GPJ WANGENG.GDT 12/16/21



USER NAME =	DESIGNED - FL	REVISED -
PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - FL	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 3)
STRUCTURE NO. 099-8304

SHEET S1-39 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	63
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				



BORING LOG RIV-BSB-03

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1145 N MAIN Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 593.11 ft
North: 1755103.18 ft
East: 1016269.75 ft
Station: 28+15.5
Offset: 8.3 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
592.84	4-inch thick ASPHALT --PAVEMENT--						567.6	--%Gravel=11.2-- --%Sand=25.4-- --%Silt=55.9-- --%Clay=7.5-- --A-4 (2)-- --rig chatter; possible cobbles--		11	50/1"	NP	12
591.4	White and gray SANDY GRAVEL; damp --AGGREGATE BASE--		1	5 4 4	1.50 P	15	565.6	Very dense, brown and reddish brown SANDY GRAVEL; wet --RDR 3-- --rig chatter, 27.5 ft; possible cobbles--		12	36/3"	NP	6
	Stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2-3--		2	2 2 3	1.00 P	18	563.1	Very dense, brown and reddish brown, weathered dolostone fragments; saturated --Weathered BEDROCK--		13			
	--L _c (%)=35, P _L (%)=19-- --%Gravel=0.8-- --%Sand=5.6-- --%Silt=59.9-- --%Clay=33.7-- --A-6 (15)--		3	2 3 9	2.50 P	18		Strong, light greenish gray, very poor to poor quality, DOLOSTONE; Moderately to closely spaced, highly weathered, horizontal and vertical JOINTS, with <0.05 inch opening, slicken to slightly rough walls, and <0.2 inch thick clay infill. --RUN 1: 30.0 to 40.0 feet-- --Recovery: 90%-- --RQD: 8%-- --Qu=6,081 psi--		14			
			4	4 4 5	4.50 P	18		--RUN 2: 40.0 to 44.5 feet-- --Recovery: 81%-- --RQD: 26%--		15			
			5	3 4 4	3.50 P	16				16			
			6	4 6 7	4.00 P	21				17			
	--rig chatter; possible cobbles--		7	4 4 5	4.00 P	15				18			
573.7	Very stiff, black and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --Buried TOPSOIL-- --RDR 2--		8	3 5 6	2.50 P	26	548.6			19			
			9	3 6 7	3.50 P	21				20			
570.1	Medium dense, brown and gray SILTY LOAM, trace gravel --RDR 2-- --L _c (%)=21, P _L (%)=14--25		10	9 6 6	NP	12				21			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-16-2021** Complete Drilling **11-16-2021**
Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
Driller **RH&JD** Logger **M. Rojo** Checked by **C. Marin**
Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling **26.00 ft**
At Completion of Drilling **core wash 2.5ft**
Time After Drilling **NA**
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG RIV-SGB-02

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WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 593.27 ft
North: 1755353.25 ft
East: 1016252.19 ft
Station: 25+65.1
Offset: 4.9 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
592.3 592.3	11-inch thick ASPHALT --PAVEMENT--												
	1-inch, gray and white SANDY GRAVEL --AGGREGATE BASE--		1	5 4 4 3	4.00 P	16							
	Very stiff to hard, brown and gray SILTY CLAY to CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--		2	3 3 3 4	3.00 P	19							
			3	2 2 3 3	3.50 P	17							
			4	4 5 12 10	4.50 P	14							
			5	10 7 9 9	4.50 P	17							
			6	7 8 10	4.50 P	18							
	--black; trace organic matter-- --FILL--		7	6 7 5	3.25 P	29							
			8	9 9 10	NR								
			9	6 6 7	4.50 P	14							
572.8 571.9	Very stiff, black SILTY CLAY, trace organic matter; damp --Buried TOPSOIL--		10	8 11 9	3.50 P	46							
	Stiff to very stiff, brown and gray SILTY CLAY, trace gravel; damp to moist --RDR 2--		11	8 6 7	1.50 P	21							

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-19-2021** Complete Drilling **11-19-2021**
Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T [81%]**
Driller **RR&AG** Logger **M. Rojo** Checked by **C. Marin**
Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling **25.00 ft**
At Completion of Drilling **DRY**
Time After Drilling **NA**
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
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WANGENG\2553901.GPJ WANGENG.GDT 12/16/21



USER NAME =	DESIGNED - FL	REVISED -
PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - FL	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 2 OF 3)
STRUCTURE NO. 099-8304

SHEET S1-40 OF S1-41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	64
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				



BORING LOG RIV-SGB-03

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: (630) 953-9928
 Fax: (630) 953-9938

Client **Stantec**
 Project **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 592.36 ft
 North: 1755053.60 ft
 East: 1016257.18 ft
 Station: 28+64.8
 Offset: 5.4 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.8	7-inch thick ASPHALT --PAVEMENT--															
	591.7	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	8 7 7 8	> 4.50 P	13									
		Very stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	10 11 11 11	> 4.50 P	14									
					3	6 7 9 7	> 4.50 P	17									
					4	7 6 6 5	3.28 B	17									
			10		5	5 7 6 7	> 4.50 P	17									
					6	3 5 8	NA	18									
			15		7	5 6 8	> 4.50 P	18									
					8	4 5 7	> 4.50 P	16									
			20		9	9 10 9	NA	18									
	571.9	Medium dense, brown and gray LOAM, trace gravel; moist --FILL-- --RDR 2--			10	4 7 8	NP	15									
	569.4	Very dense, brown SILTY LOAM, trace gravel; wet to saturated --RDR 2--			11	7 9	NP	11									
	567.4	Boring terminated at 24.75 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-22-2021** Complete Drilling **11-22-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T [81%]**
 Driller **RR&AG** Logger **M. Rojo** Checked by **C. Marin**
 Drilling Method **2.25" ID. HSA; boring backfilled upon completion**

While Drilling **24.00 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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 WANGENGINC_2553901.GPJ WANGENG.GDT 12/16/21



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PLOT SCALE =	CHECKED - MI, JJS, SK	REVISED -
PLOT DATE =	DRAWN - FL	REVISED -
	CHECKED - MI, JJS, SK	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 3 OF 3)
 STRUCTURE NO. 099-8304

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	65
CONTRACT NO. 62P67				

SHEET S1-41 OF 51-41 SHEETS

ILLINOIS FED. AID PROJECT

Benchmark: Set 2" CWA Aluminum disc in concrete pier seat in southerly pier of River Road bridge on south side of eastbound I-80, Elev. 575.61.

Existing Structure: None.

Traffic Control: Traffic will be detoured during construction.

Salvage: None

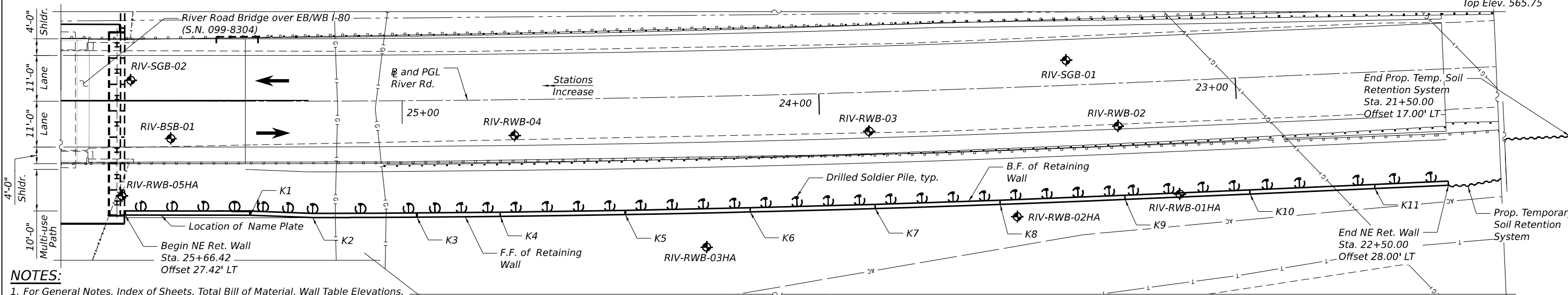
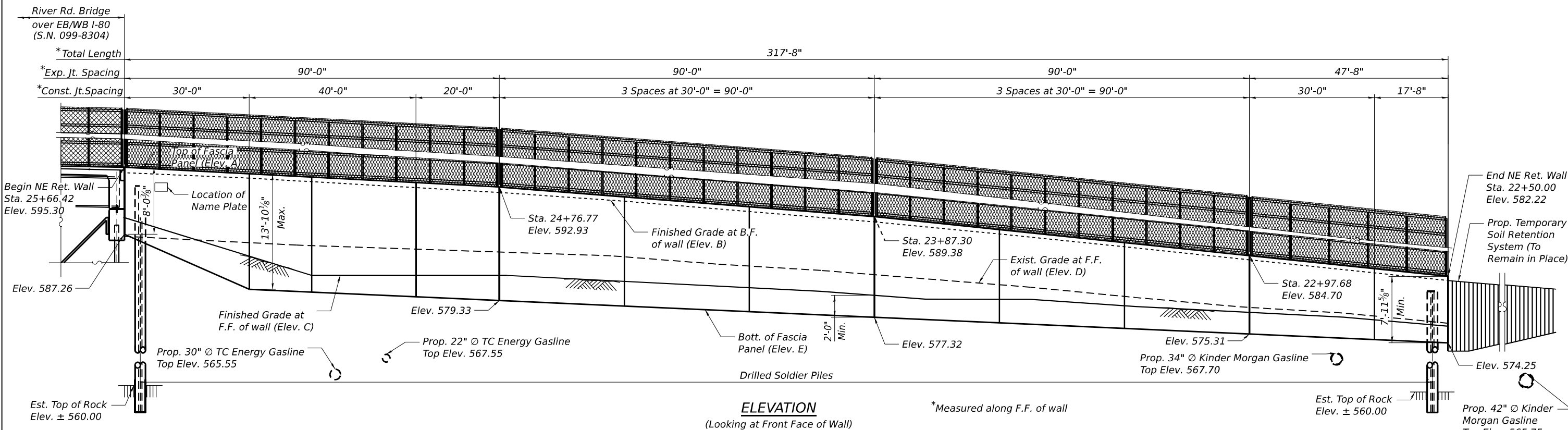
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50) Soldier Piles

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



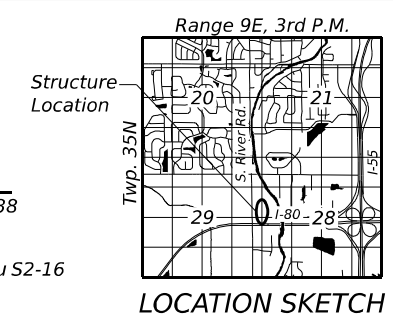
- NOTES:**
- For General Notes, Index of Sheets, Total Bill of Material, Wall Table Elevations, Profile Grade Lines and Curve Data, See Sheet S2-02.
 - Stations and offsets are measured from the centerline of River Rd. to the front face of the cast-in-place concrete facing.
 - "K1" denotes wall Kink Point - Number 1. See Wall Elevations Table on Sheet S2-02 for kink point stations and offsets.
 - See Civil Plans for Pipe Underdrain outlet details.
 - Space soldier piles to miss existing TC Energy and Kinder Morgan gas lines. If deviations from proposed pile spacing are required to avoid these gas lines (or other utilities), the Engineer of Record shall be contacted for re-evaluation of the proposed wall and further disposition.

LEGEND:

- ◆ Soil Boring
- Prop. Fence
- AC — ROW
- Prop. Guardrail
- Exist. Guardrail
- G — Exist. Gas Line
- T — Exist. Telephone Line
- Prop. Temporary Soil Retention System
- F.F. Front Face
- B.F. Back Face



Signed Moussa A. Issa
 Dr. Moussa A. Issa, S.E. IL Lic. No. 081-005738
 Expires 11-30-2024
 Date 1/27/2023 For Sheets S2-01 Thru S2-16



**GENERAL PLAN & ELEVATION
 NORTHEAST RETAINING WALL
 ALONG RIVER ROAD
 F.A.I. RTE. I-80
 SECTION 2021-151-B
 WILL COUNTY
 STA. 22+50.00 TO STA. 25+66.42
 STRUCTURE NO. 099-W805**

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STRUCTURE NO. 099-W805

SHEET S2-01 OF S2-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	66
CONTRACT NO. 62P67				

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GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Protective Coat shall be applied to exposed surfaces of the panels.
- Wall to be built along straight chords between construction and expansion joints.
- Soldier piles shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer. Cost included with Furnishing Soldier Piles (W Section).
- The Contractor shall field-verify locations of existing underground utilities and shall take all necessary precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with retaining wall construction shall be protected, abandoned or relocated based on the results of coordination with the pertinent utility companies and according to directions given on the Civil Plans.
- Any storage of construction equipment and material behind wall is not allowed.
- Earth excavation in front of wall shall be gradual and no more than 4'-0" of earth shall be excavated at a time in front of the wall. The elevation difference between adjacent excavated areas in front of wall shall not vary more than 6'-0" over a distance of 50'-0" as measured along the length of the wall.
- A layer of weathered bedrock is present at the project site as indicated in the soil boring logs. The Contractor shall provide a method to ensure the soldier piles achieve at least the plan tip elevations.
- Commonwealth Edison (ComEd) overhead power line and towers exist near, and cross, the proposed improvement. The Contractor shall coordinate with ComEd by providing detailed staging plans that indicate equipment type (such as crane boom heights) and placement for ComEd review/approval prior to construction activities.
- The Contractor shall exercise extreme caution in drilling and setting the soldier piles under Aerial Power Lines. The Contractor is responsible to coordinate with utilities to shield, insulate, deenergize or provide other means of protection against these lines if required. The Contractor shall make necessary adjustments to the lengths of the soldier piles and to the auguring equipment to maintain adequate clearance to the Aerial Power Lines as specified in OSHA safety requirements. Lengths of soldier piles and any necessary splice details shall be approved by the Engineer prior to the start of work.

INDEX OF SHEETS

- S2-01 General Plan & Elevation
- S2-02 General Notes, Index of Sheets & Total BOM
- S2-03 Plan and Elevation (Sheet 1 of 4)
- S2-04 Plan and Elevation (Sheet 2 of 4)
- S2-05 Plan and Elevation (Sheet 3 of 4)
- S2-06 Plan and Elevation (Sheet 4 of 4)
- S2-07 Wall Cross Sections and Details (Sheet 1 of 3)
- S2-08 Wall Cross Sections and Details (Sheet 2 of 3)
- S2-09 Wall Cross Sections and Details (Sheet 3 of 3)
- S2-10 Bicycle Railing, Curved and Parapet Railing
- S2-11 Temporary Soil Retention System
- S2-12 Boring Logs (Sheet 1 of 5)
- S2-13 Boring Logs (Sheet 2 of 5)
- S2-14 Boring Logs (Sheet 3 of 5)
- S2-15 Boring Logs (Sheet 4 of 5)
- S2-16 Boring Logs (Sheet 5 of 5)

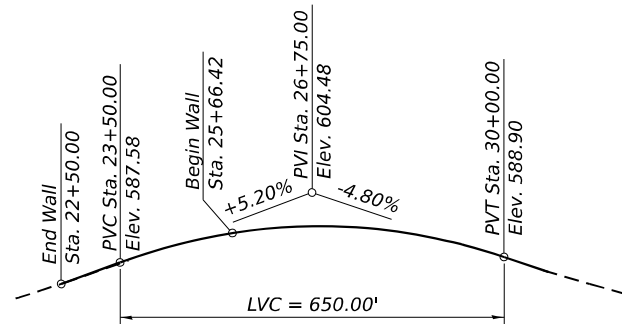
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	198
Concrete Structures	Cu Yd	137
Protective Coat	Sq Yd	375
Stud Shear Connectors	Each	884
Reinforcement Bars, Epoxy Coated	Pound	19,720
Bicycle Railing, Curved	Foot	318
Name Plates	Each	1
Furnishing Soldier Piles (W Section)	Foot	1,299
Drilling And Setting Soldier Piles (In Soil)	Cu Ft	6,601
Drilling And Setting Soldier Piles (In Rock)	Cu Ft	1,000
Untreated Timber Lagging	Sq Ft	3,051
Geocomposite Wall Drain	Sq Yd	375
Pipe Underdrains for Structures 4"	Foot	322
Temporary Soil Retention System (To Remain In Place)	Sq Ft	370

WALL ELEVATIONS TABLE

Location	Station	Offset (Lt.)	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E
Begin Wall	25+66.42	27.42'	595.30	594.65	589.28	587.03	587.26
K1	25+36.42	27.42'	594.51	594.01	584.65	586.26	580.66
K2	25+21.53	28.00'	594.11	593.58	582.34	585.92	580.33
K3	24+96.66	28.00'	593.45	592.88	582.34	585.53	579.77
K4	24+76.77	28.00'	592.93	592.28	582.34	585.16	579.33
K5	24+46.95	28.00'	591.75	591.24	581.57	584.57	578.66
K6	24+17.12	28.00'	590.57	590.06	580.82	583.46	577.99
K7	23+87.30	28.00'	589.38	588.75	579.94	582.43	577.32
K8	23+57.47	28.00'	587.82	587.30	579.47	581.23	576.65
K9	23+27.65	28.00'	586.26	585.76	578.69	579.81	575.98
K10	22+97.68	28.00'	584.70	584.20	577.85	578.49	575.31
K11	22+67.67	28.00'	583.14	582.64	577.00	577.45	574.64
End Wall	22+50.00	28.00'	582.22	581.72	576.25	576.60	574.25

Elev. A = Top of Fascia Panel
 Elev. B = Finished Grade at B.F. of Wall
 Elev. C = Finished Grade at F.F. of Wall
 Elev. D = Existing Grade at F.F. of Wall
 Elev. E = Bottom of Fascia Panel



PROFILE GRADE
(Along River Road)

PR CURVE
RR CURVE 1

P.I. Sta. = 24+28.73
 $\Delta = 02^\circ 34' 01''$ (RT)
 $D = 01^\circ 12' 04''$
 $R = 4,770.00'$
 $T = 106.87'$
 $L = 213.70'$
 $E = 1.20'$
 $e = N.C.$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 23+21.87$
 $P.T. Sta. = 25+35.57$

SUGGESTED SEQUENCE OF CONSTRUCTION:

- Locate all existing utilities that are to remain. In particular, the TC Energy pipelines at the south end of the retaining wall shall be daylighted in the presence of a TC Energy Field representative. The Contractor shall coordinate any required improvements to, or removals of, existing utilities with utility owner(s) and IDOT.
- Install North Abutment steel piles for adjacent River Road Bridge over EB/WB I-80 (SN 099-8304). The construction of the North Abutment concrete and wingwall may be performed at any time following pile installation.
- Install Drilled Soldier Piles throughout the full length of proposed retaining wall, and install Temporary Soil Retention System (To Remain In Place) at the north end.
- Excavate for proposed NE Retaining Wall (SN 099-W805) as required and install untreated timber lagging for drilled soldier piles from top down as excavation proceeds. Untreated timber lagging shall also be installed parallel to the wall panel between the Temporary Soil Retention System (To Remain In Place) and the first adjacent soldier pile.
- Install Geocomposite Wall Drain, pipe underdrain for structures and associated drainage elements.
- Construct reinforced concrete facing for proposed NE Retaining Wall (SN 099-W805).
- Construct approach slab and roadway pavement.
- Backfill to proposed grade at front face of retaining wall, apply protective coat, and install Bicycle Railing, Curved.

STATION 22+50.00 TO STATION 25+66.42
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RTE. I-80 SEC. 2021-151-B
 LOADING HL-93
 STRUCTURE NO. 099-W805

NAME PLATE
See Std. 515001

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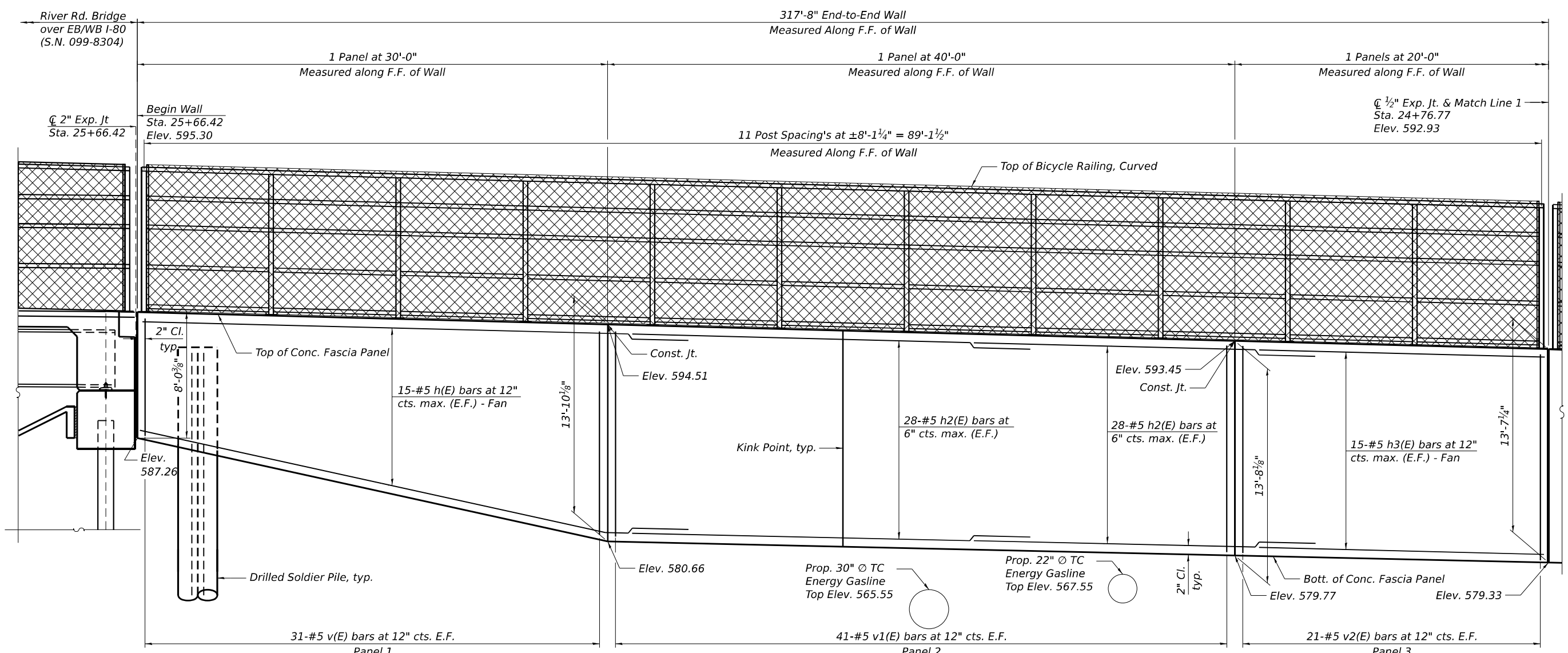
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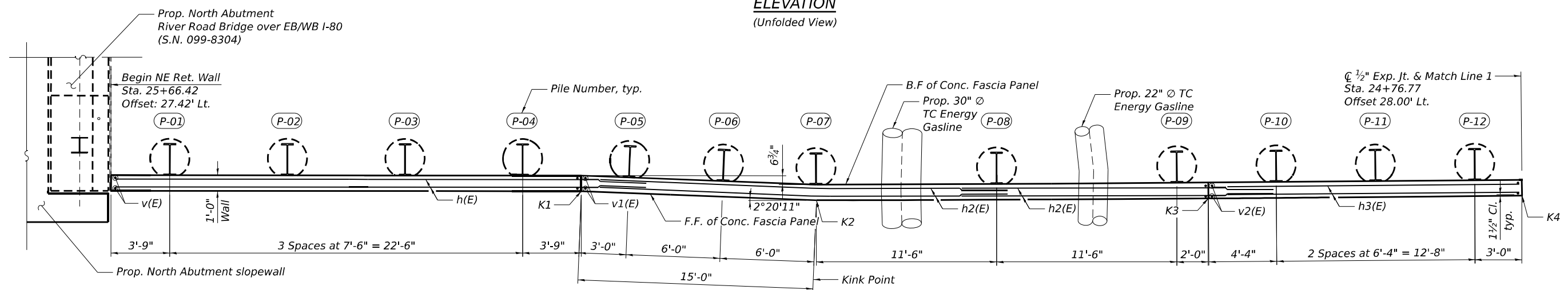
GENERAL NOTES, INDEX OF SHEETS & TOTAL BOM
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 SHEET S2-02 OF S2-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62P67	
		ILLINOIS	FED. AID PROJECT	

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ELEVATION
(Unfolded View)



PLAN →

NOTES:

- All dimensions are along the F.F. of wall
- For typical wall cross sections and details, see Sheets S2-07 thru S2-09.
- For soldier pile layout, minimum bar laps, sections, details, and Bill of Material, see Sheet S2-09.
- Stations and Offsets are measured along the F.F. of the wall from \mathbb{R} River Road.

LEGEND

- E.F. - Each Face
- F.F. - Front Face
- B.F. - Back Face



USER NAME =	DESIGNED - MAA, SK	REVISED -
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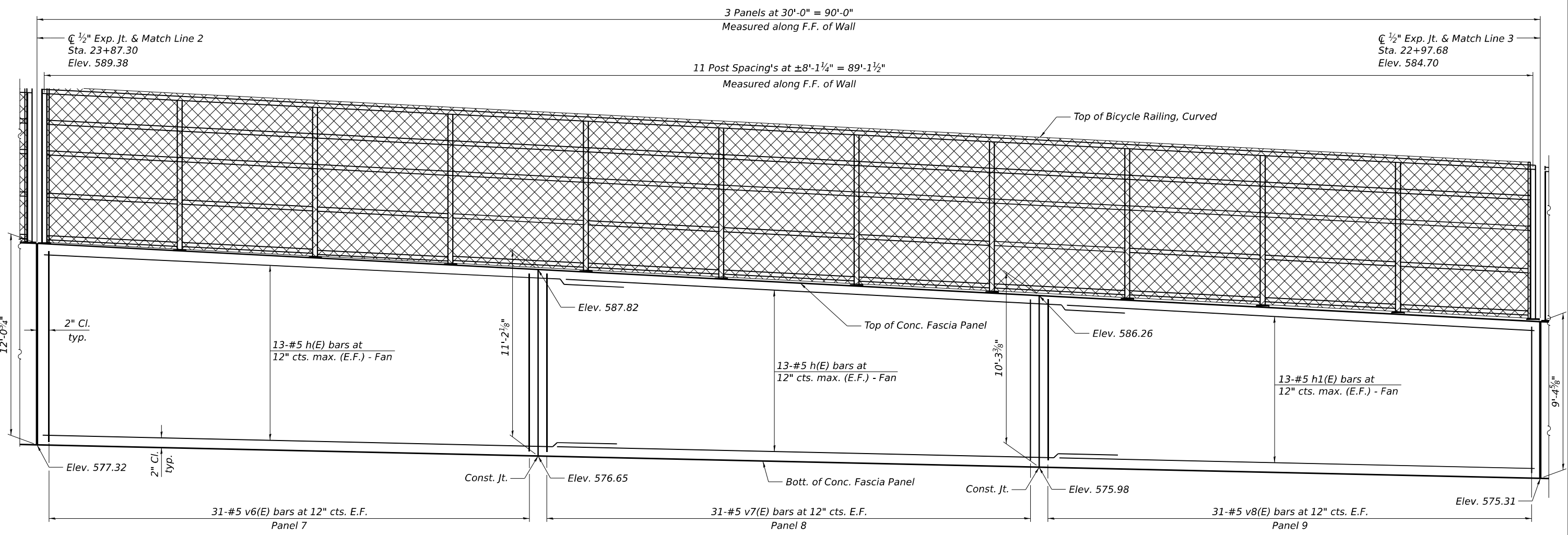
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (SHEET 1 OF 4)
STRUCTURE NO. 099-W805

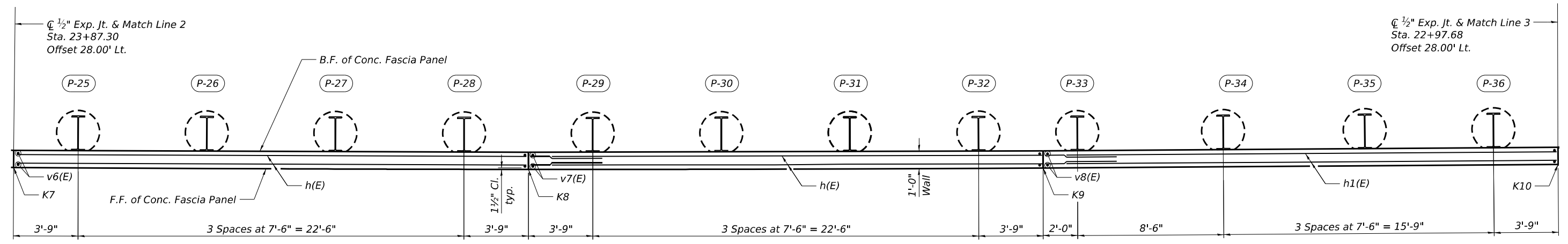
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SHEET S2-03 OF S2-16 SHEETS

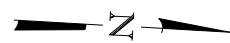
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ELEVATION
(Unfolded View)



PLAN



NOTE:
1. For Notes, see Sheet S2-03.

LEGEND
 E.F. - Each Face
 F.F. - Front Face
 B.F. - Back Face



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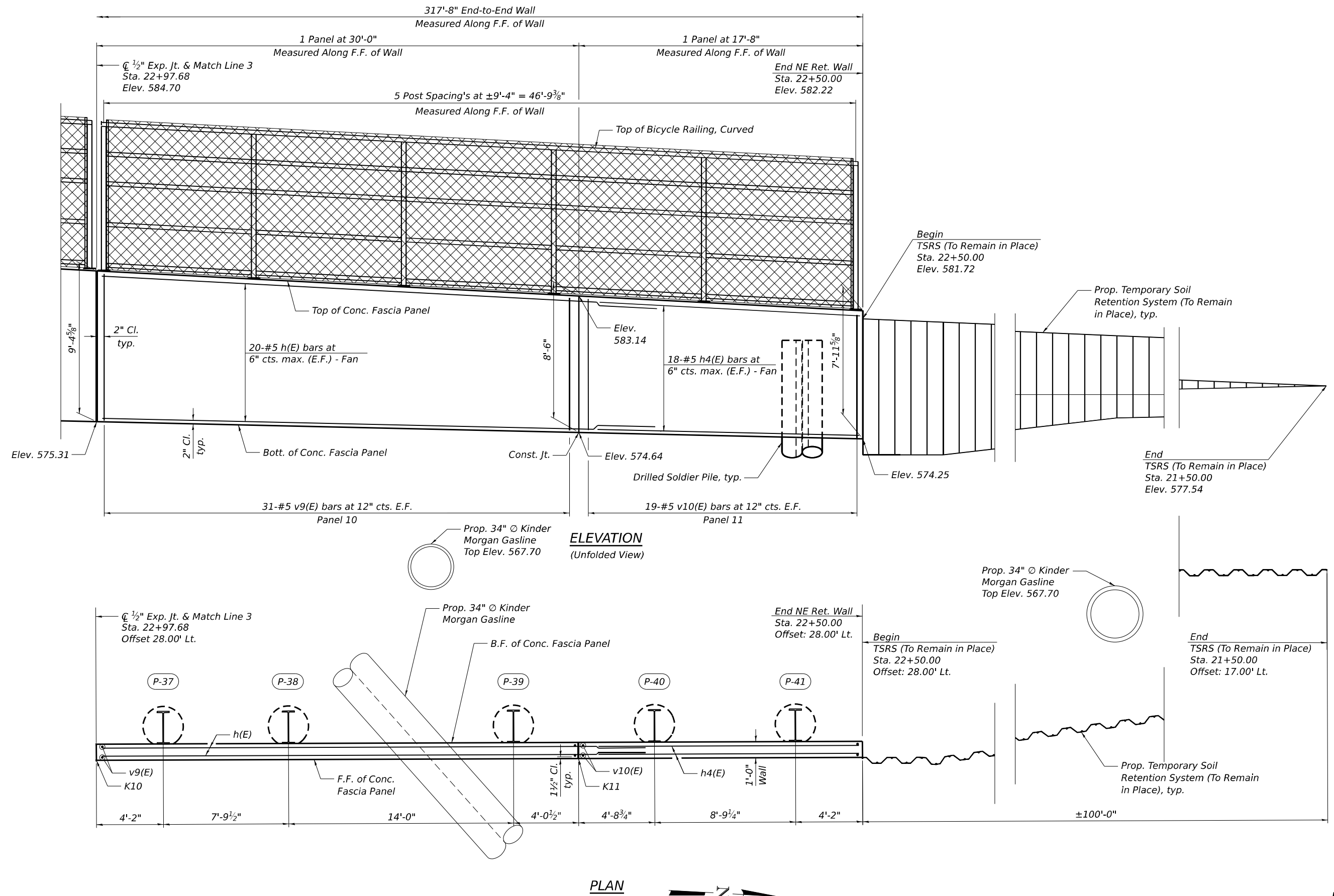
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (SHEET 3 OF 4)
STRUCTURE NO. 099-W805

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SHEET S2-05 OF S2-16 SHEETS

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NOTE:
 1. For Notes, see Sheet S2-03.

LEGEND
 E.F. - Each Face
 F.F. - Front Face
 B.F. - Back Face



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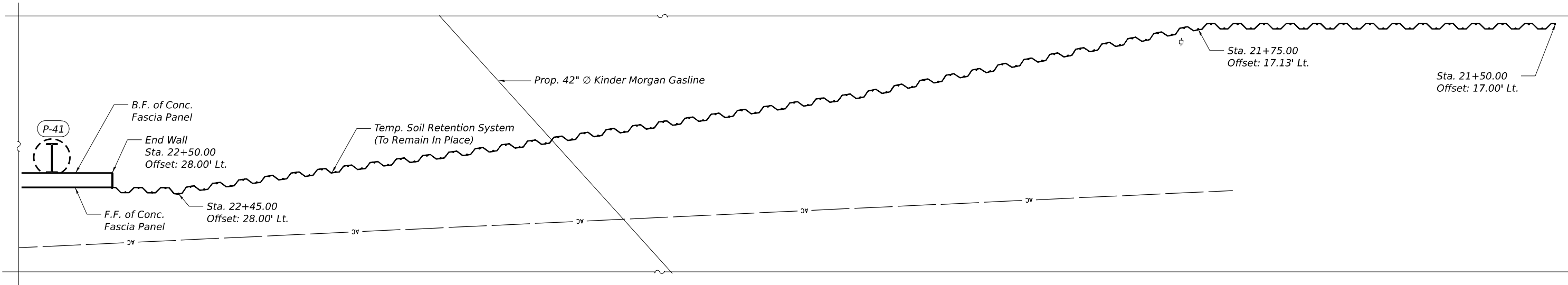
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (SHEET 4 OF 4)
 STRUCTURE NO. 099-W805

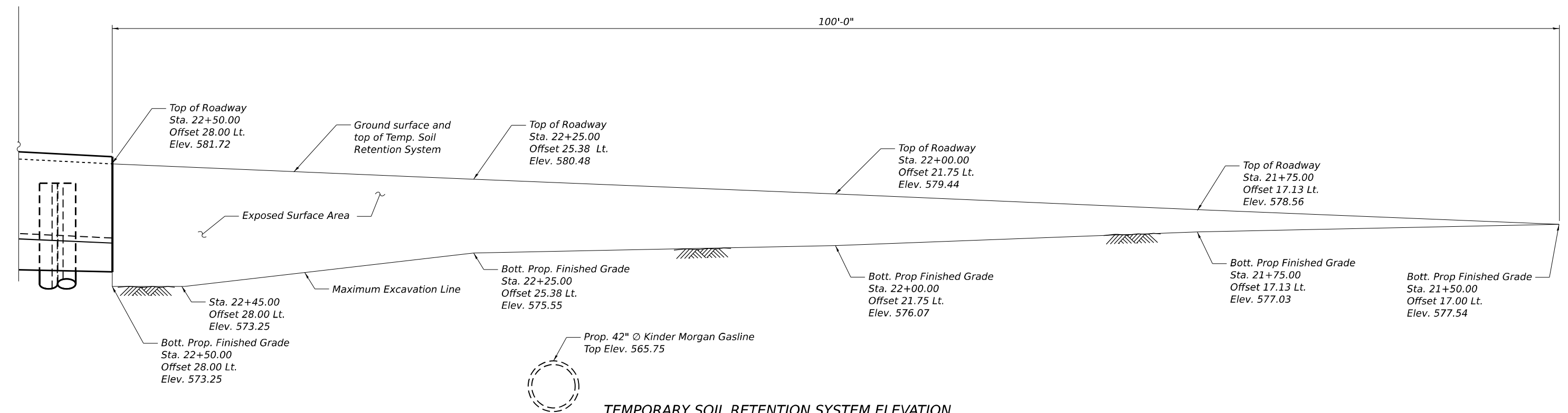
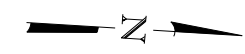
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		ILLINOIS	FED. AID PROJECT	

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PARTIAL PLAN AT TEMPORARY SOIL RETENTION SYSTEM



TEMPORARY SOIL RETENTION SYSTEM ELEVATION

NOTES:

1. The Temporary Soil Retention System at the north end of proposed retaining wall shall be installed to the limits shown and shall remain in place until such time as remaining portions of the Multi-Use Path are constructed. The Contractor shall submit a soil retention system design, including all necessary plan details and calculations, for review and acceptance by the Engineer. See Special Provision for Temporary Soil Retention System (To Remain in Place).
2. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
3. The maximum allowable excavation slope is 1:2 (V:H).

LEGEND:

- Temporary Soil Retention System (To Remain In Place)
- ROW
- Exist. Gas Line

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System (To Remain In Place)	Sq Ft	370



USER NAME =	DESIGNED - MAA, SK	REVISED -
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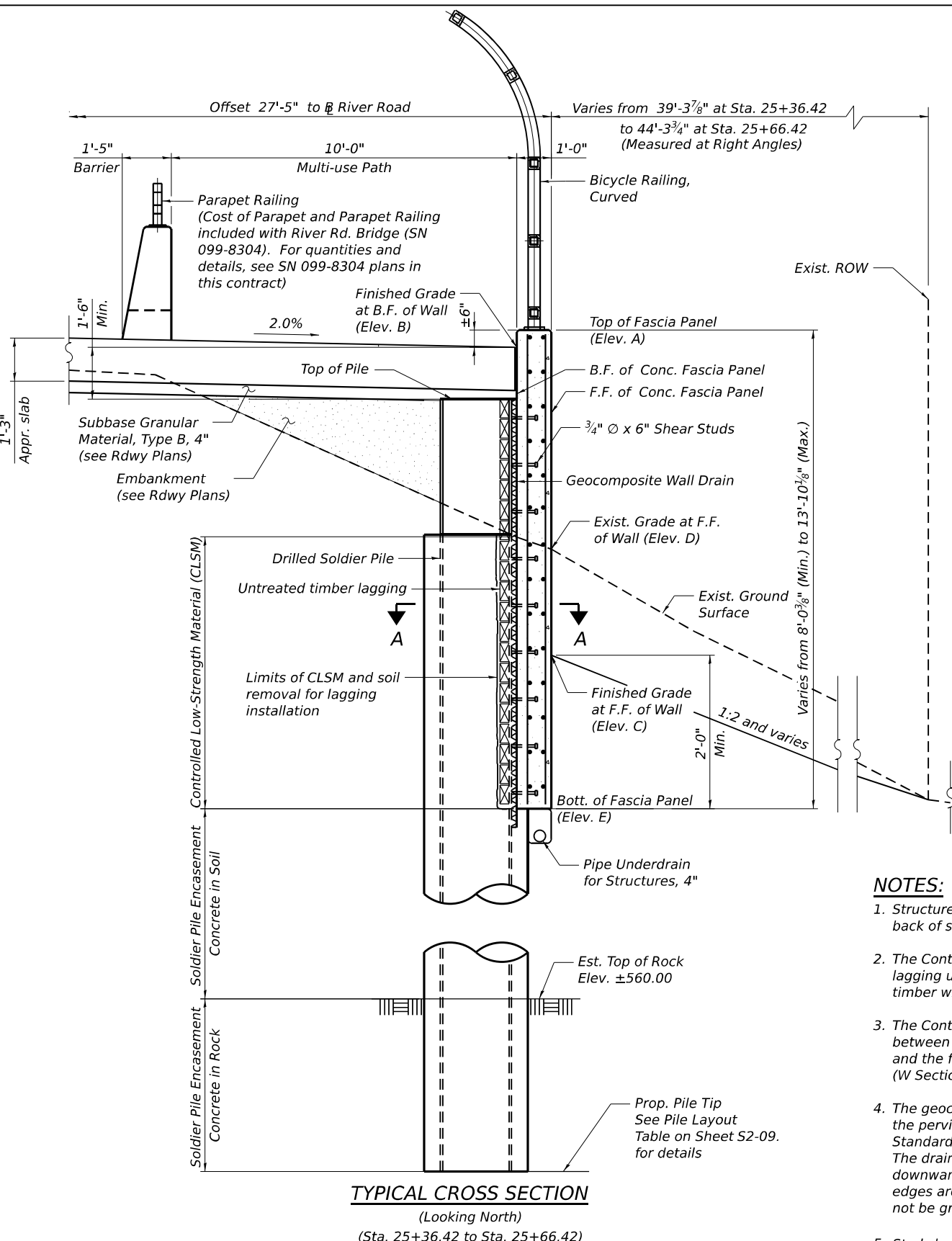
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM DETAILS
 STRUCTURE NO. 099-W805**

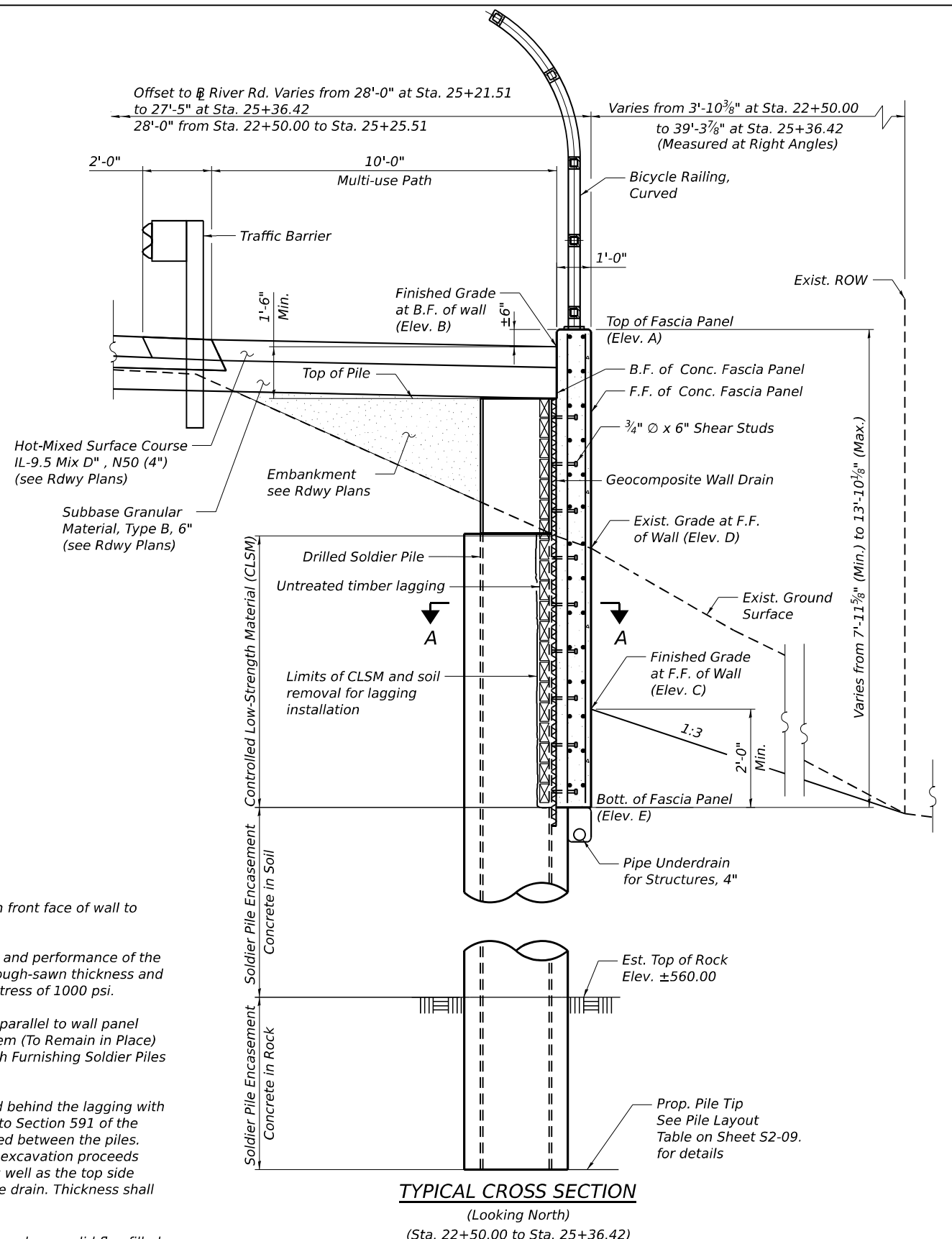
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P67	

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TYPICAL CROSS SECTION
 (Looking North)
 (Sta. 25+36.42 to Sta. 25+66.42)



TYPICAL CROSS SECTION
 (Looking North)
 (Sta. 22+50.00 to Sta. 25+36.42)

NOTES:

1. Structure Excavation is measured 2'-0" from front face of wall to back of soldier pile timber lagging.
2. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. The Contractor shall provide Wood Lagging parallel to wall panel between the Temporary Soil Retention System (To Remain in Place) and the first adjacent pile, cost included with Furnishing Soldier Piles (W Section).
4. The geocomposite wall drain shall be placed behind the lagging with the pervious side toward the soil according to Section 591 of the Standard Specifications and shall be centered between the piles. The drain shall be installed in stages as the excavation proceeds downward making sure that drain splices as well as the top side edges are covered as required to protect the drain. Thickness shall not be greater than 7/8".
5. Stud shear connectors shall be 3/4" Ø x 6" granular or solid flux filled headed studs, conforming to Article 1006.32 of the Standard Specifications, automatically end welded to the front flange of the soldier piles.
6. For Shear Stud Detail, see Sheet S2-09.
7. For Section A-A, see Sheet S2-08.



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	CHECKED - MAI, JJS	REVISED -
PLOT SCALE =	DRAWN - FL	REVISED -
PLOT DATE =	CHECKED - MAI, JJS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

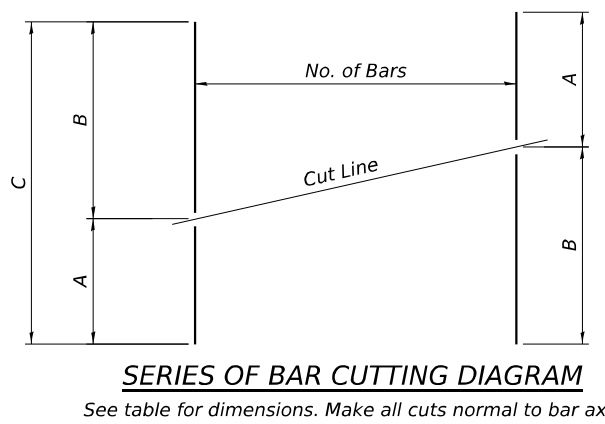
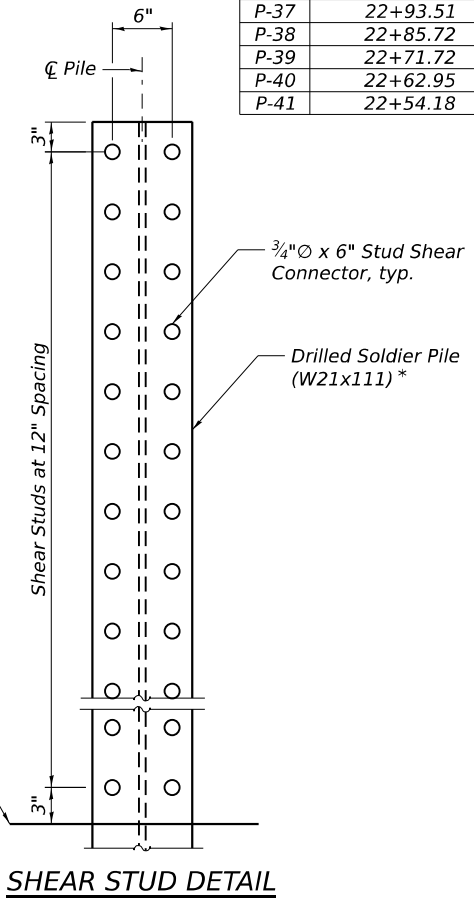
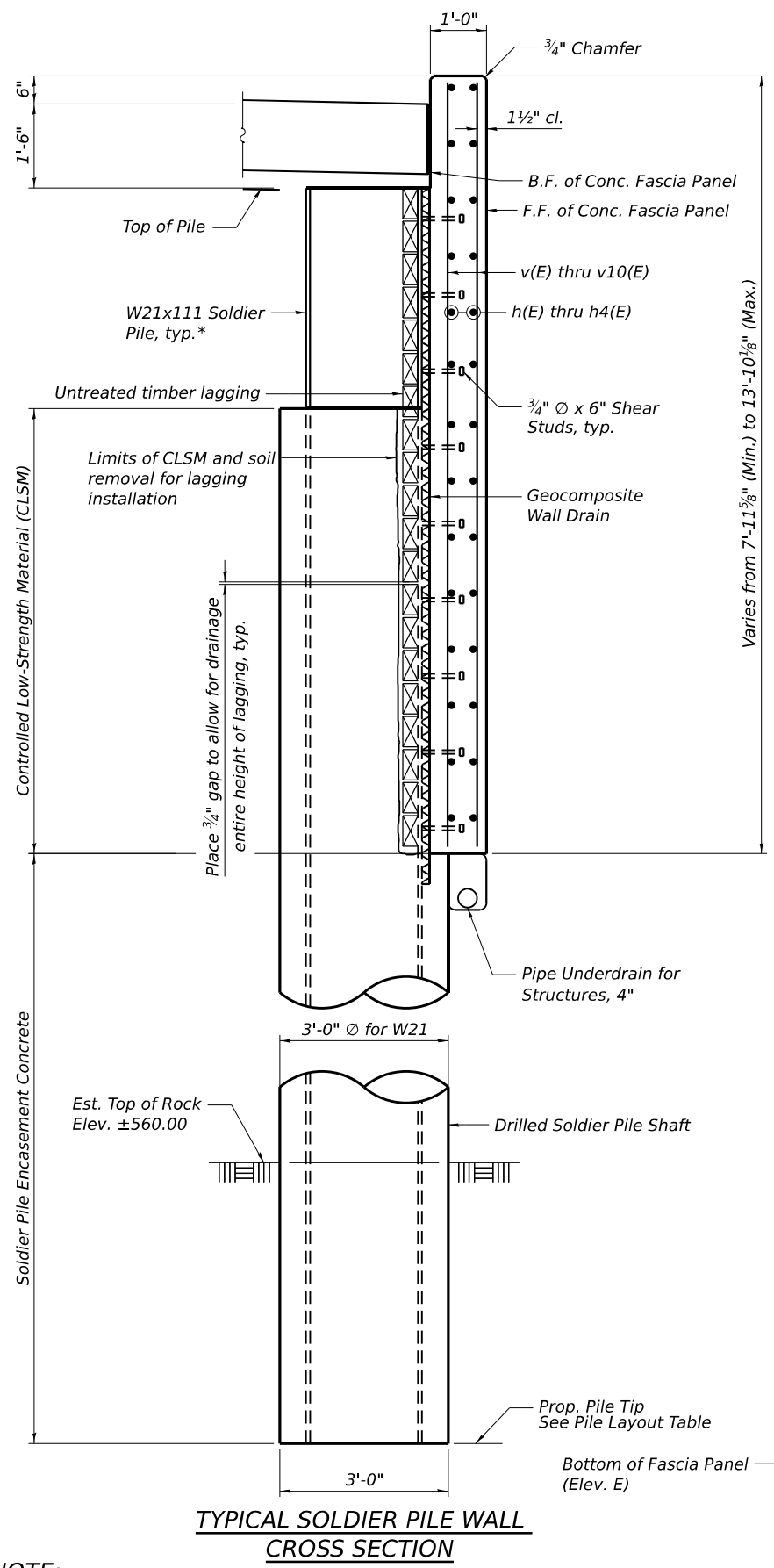
**WALL CROSS SECTIONS AND DETAILS (SHEET 1 OF 3)
 STRUCTURE NO. 099-W805**

SHEET S2-07 OF S2-16 SHEETS

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CONTRACT NO. 62P67				

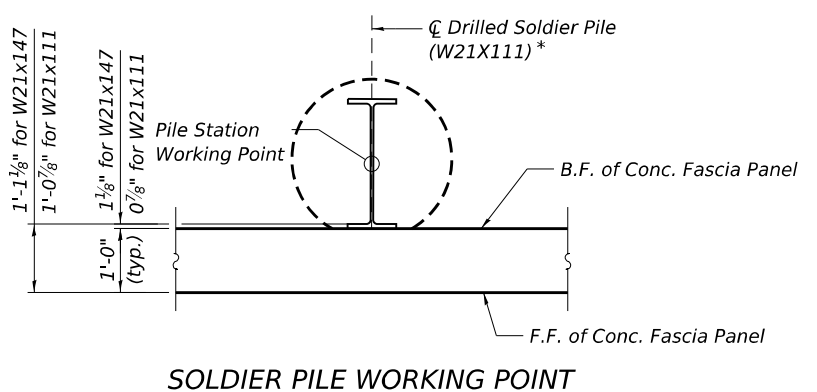
ILLINOIS FED. AID PROJECT

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 FILE NAME: p:\transys\transyscorp-pw\hosted\Documents\Projects_2018\CH401\401180022\01-Struct\CAD\CF-02_62P67\04-Sheets\05-Retaining Walls\NE Wall-D162P67-010-Wall Cross Sections and Details (Sheet 3 of 3)



BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	Bar No.	No. of Bars Per Set	A	B	C
v(E)	1	#5	31	7'-8"	13'-6"	21'-2"
v1(E)	1	#5	41	13'-6"	13'-4"	26'-10"
v2(E)	1	#5	21	13'-4"	13'-3"	26'-7"
v3(E)	1	#5	31	13'-3"	12'-9"	26'-0"
v4(E)	1	#5	31	12'-9"	12'-3"	25'-0"
v5(E)	1	#5	31	12'-3"	11'-9"	24'-0"
v6(E)	1	#5	31	11'-9"	10'-10"	22'-7"
v7(E)	1	#5	31	10'-10"	9'-11"	20'-9"
v8(E)	1	#5	31	9'-11"	9'-1"	19'-0"
v9(E)	1	#5	31	9'-1"	8'-2"	17'-3"
v10(E)	1	#5	19	8'-2"	7'-8"	15'-10"



Minimum Bar Lap

Bar	Lap
#5	3'-9"

LEGEND

F.F. Front Face
 B.F. Back Face

PILE LAYOUT

Pile	Station at Working Point	Offset	Top of Pile Elevation	Top of Encasement/ Bottom of CLSM	Section	Pile Tip Elevation	Pile Length	Top of Wall
P-01	25+62.67	25.52' Lt.	593.53	586.44	W21x111	557.00	36.53	595.20
P-02	25+55.17	25.52' Lt.	593.34	584.79	W21x111	556.81	36.53	595.00
P-03	25+47.67	25.52' Lt.	593.14	583.14	W21x111	556.61	36.53	594.81
P-04	25+40.17	25.52' Lt.	592.94	581.49	W21x111	556.41	36.53	594.61
P-05	25+32.61	25.67' Lt.	592.74	580.60	W21x111	557.00	35.74	594.41
P-06	25+25.16	25.96' Lt.	592.54	580.46	W21x111	556.80	35.74	594.21
P-07	25+18.54	26.07' Lt.	592.37	580.33	W21x147	556.63	35.74	594.03
P-08	25+09.33	26.07' Lt.	592.12	580.07	W21x147	556.38	35.74	593.79
P-09	25+00.14	26.06' Lt.	591.87	579.82	W21x147	556.13	35.74	593.54
P-10	24+95.42	26.08' Lt.	591.75	579.68	W21x111	557.00	34.75	593.42
P-11	24+87.96	26.09' Lt.	591.56	579.53	W21x111	556.81	34.75	593.22
P-12	24+80.50	26.10' Lt.	591.36	579.39	W21x111	556.61	34.75	593.03
P-13	24+73.05	26.10' Lt.	591.12	579.33	W21x111	557.00	34.12	592.78
P-14	24+65.58	26.08' Lt.	590.82	579.08	W21x111	556.70	34.12	592.49
P-15	24+58.13	26.08' Lt.	590.53	578.91	W21x111	556.41	34.12	592.19
P-16	24+50.67	26.10' Lt.	590.23	578.74	W21x111	556.11	34.12	591.90
P-17	24+43.22	26.10' Lt.	589.94	578.57	W21x111	557.00	32.94	591.60
P-18	24+35.78	26.09' Lt.	589.64	578.41	W21x111	556.70	32.94	591.31
P-19	24+28.30	26.08' Lt.	589.35	578.24	W21x111	556.41	32.94	591.01
P-20	24+20.85	26.10' Lt.	589.05	578.07	W21x111	556.11	32.94	590.72
P-21	24+13.40	26.10' Lt.	588.75	577.90	W21x111	557.00	31.75	590.42
P-22	24+05.93	26.09' Lt.	588.46	577.74	W21x111	556.71	31.75	590.12
P-23	23+98.48	26.09' Lt.	588.16	577.57	W21x111	556.41	31.75	589.83
P-24	23+91.02	26.10' Lt.	587.86	577.40	W21x111	556.11	31.75	589.53
P-25	23+83.57	26.10' Lt.	587.52	577.24	W21x111	557.00	30.52	589.18
P-26	23+76.11	26.09' Lt.	587.13	577.07	W21x111	556.61	30.52	588.79
P-27	23+68.66	26.09' Lt.	586.74	576.90	W21x111	556.22	30.52	588.41
P-28	23+61.20	26.10' Lt.	586.35	576.73	W21x111	555.83	30.52	588.02
P-29	23+53.74	26.10' Lt.	585.96	576.57	W21x111	557.00	28.96	587.62
P-30	23+46.29	26.09' Lt.	585.57	576.40	W21x111	556.61	28.96	587.24
P-31	23+38.85	26.09' Lt.	585.18	576.23	W21x111	556.22	28.96	586.85
P-32	23+31.39	26.10' Lt.	584.79	576.07	W21x111	555.83	28.96	586.46
P-33	23+25.66	26.11' Lt.	584.49	575.90	W21x111	557.00	27.49	586.16
P-34	23+17.18	26.10' Lt.	584.05	575.73	W21x111	556.56	27.49	585.72
P-35	23+08.93	26.11' Lt.	583.62	575.56	W21x111	556.13	27.49	585.29
P-36	23+01.43	26.11' Lt.	583.23	575.40	W21x111	555.74	27.49	584.90
P-37	22+93.51	26.11' Lt.	582.82	575.22	W21x111	557.00	25.82	584.48
P-38	22+85.72	26.08' Lt.	582.41	575.05	W21x147	556.59	25.82	584.08
P-39	22+77.72	26.08' Lt.	581.68	574.73	W21x147	555.86	25.82	583.35
P-40	22+62.95	26.11' Lt.	581.23	574.54	W21x111	557.00	24.23	582.89
P-41	22+54.18	26.11' Lt.	580.77	574.64	W21x111	556.54	24.23	582.44

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	178	#5	33'-9"	—
h2(E)	54	#5	29'-8"	—
h3(E)	112	#5	23'-10"	—
h4(E)	30	#5	19'-8"	—
h4(E)	36	#5	17'-4"	—
v(E)	31	#5	21'-2"	—
v1(E)	41	#5	26'-10"	—
v2(E)	21	#5	26'-7"	—
v3(E)	31	#5	26'-0"	—
v4(E)	31	#5	25'-0"	—
v5(E)	31	#5	24'-0"	—
v6(E)	31	#5	22'-7"	—
v7(E)	31	#5	20'-9"	—
v8(E)	31	#5	19'-0"	—
v9(E)	31	#5	17'-3"	—
v10(E)	19	#5	15'-10"	—
Structure Excavation		Cu Yd	198	
Concrete Structures		Cu Yd	137	
Protective Coat		Sq Yd	375	
Stud Shear Connectors		Each	884	
Reinforcement Bars, Epoxy Coated		Pound	19,720	
Furnishing Soldier Piles (W Section)		Foot	1,299	
Drilling And Setting Soldier Piles (In Soil)		Cu Ft	6,601	
Drilling And Setting Soldier Piles (In Rock)		Cu Ft	1,000	
Untreated Timber Lagging		Sq Ft	3,051	
Geocomposite Wall Drain		Sq Yd	375	
Pipe Underdrains for Structures 4"		Foot	322	

NOTE:
 1. For Notes, see Sheets S2-03 and S2-07.



USER NAME =	DESIGNED - MAA, SK	REVISED -
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PLOT DATE =	DRAWN - FL	REVISED -
	CHECKED - MAI, JJS	REVISED -

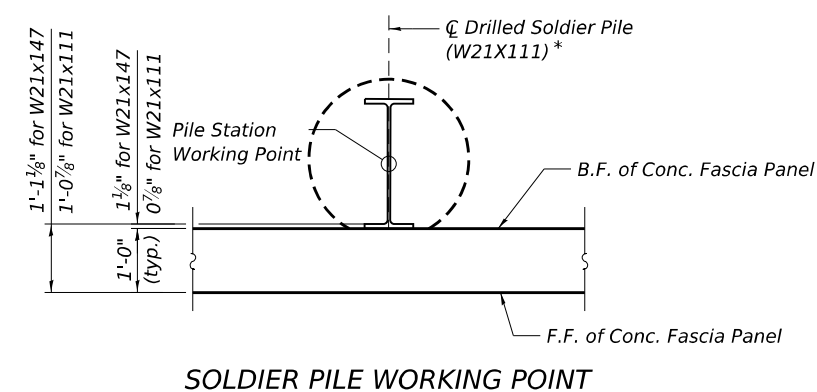
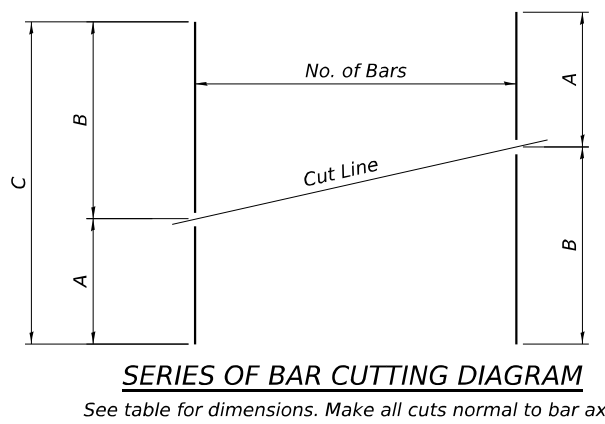
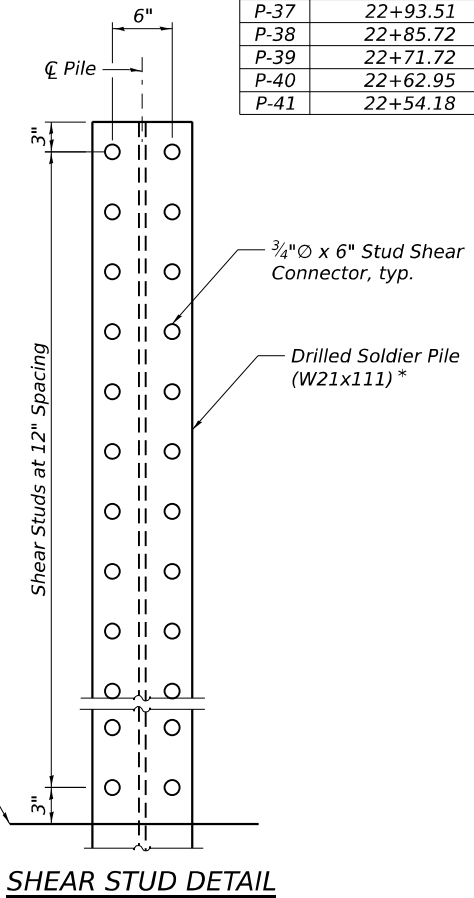
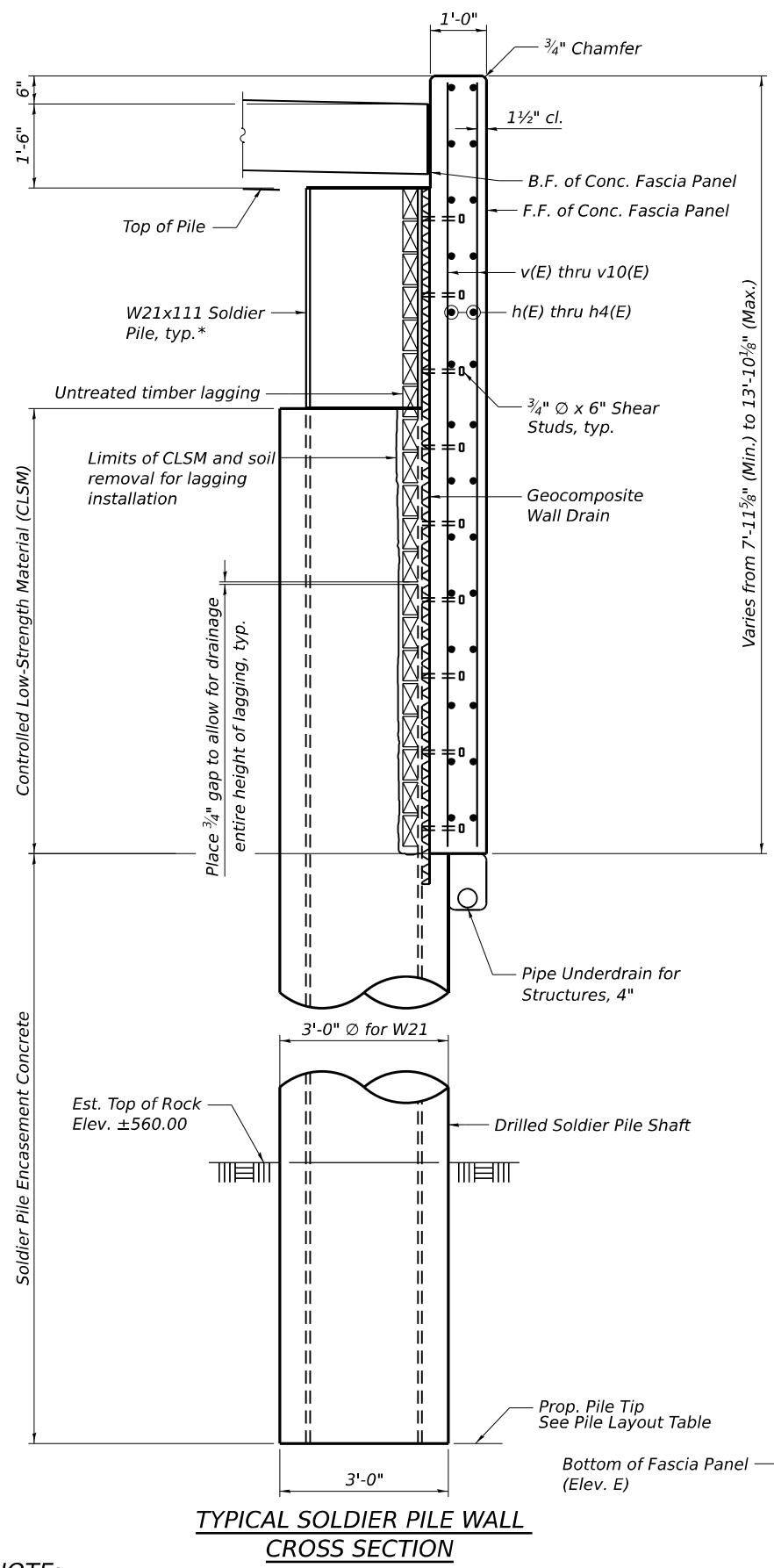
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTIONS AND DETAILS (SHEET 3 OF 3)
 STRUCTURE NO. 099-W805

SHEET S2-09 OF S2-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	74
			CONTRACT NO. 62P67	
		ILLINOIS	FED. AID PROJECT	

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PILE LAYOUT

Pile	Station at Working Point	Offset	Top of Pile Elevation	Top of Encasement/ Bottom of CLSM	Section	Auger Diameter	Pile Tip Elevation	Pile Length
P-01	25+62.67	25.52' Lt.	593.53	586.44	W21x111	2'-6"	557.00	36.53
P-02	25+55.17	25.52' Lt.	593.34	584.79	W21x111	2'-6"	556.81	36.53
P-03	25+47.67	25.52' Lt.	593.14	583.14	W21x111	2'-6"	556.61	36.53
P-04	25+40.17	25.52' Lt.	592.94	581.49	W21x111	2'-6"	556.41	36.53
P-05	25+32.61	25.67' Lt.	592.74	580.60	W21x111	2'-6"	557.00	35.74
P-06	25+25.16	25.96' Lt.	592.54	580.46	W21x111	2'-6"	556.80	35.74
P-07	25+18.54	26.07' Lt.	592.37	580.33	W21x147	2'-6"	556.63	35.74
P-08	25+09.33	26.07' Lt.	592.12	580.07	W21x147	2'-6"	556.38	35.74
P-09	25+00.14	26.06' Lt.	591.87	579.82	W21x147	2'-6"	556.13	35.74
P-10	24+95.42	26.08' Lt.	591.75	579.68	W21x111	2'-6"	557.00	34.75
P-11	24+87.96	26.09' Lt.	591.56	579.53	W21x111	2'-6"	556.81	34.75
P-12	24+80.50	26.10' Lt.	591.36	579.39	W21x111	2'-6"	556.61	34.75
P-13	24+73.05	26.10' Lt.	591.12	579.33	W21x111	2'-6"	557.00	34.12
P-14	24+65.58	26.08' Lt.	590.82	579.08	W21x111	2'-6"	556.70	34.12
P-15	24+58.13	26.08' Lt.	590.53	578.91	W21x111	2'-6"	556.41	34.12
P-16	24+50.67	26.10' Lt.	590.23	578.74	W21x111	2'-6"	556.11	34.12
P-17	24+43.22	26.10' Lt.	589.94	578.57	W21x111	2'-6"	557.00	32.94
P-18	24+35.78	26.09' Lt.	589.64	578.41	W21x111	2'-6"	556.70	32.94
P-19	24+28.30	26.08' Lt.	589.35	578.24	W21x111	2'-6"	556.41	32.94
P-20	24+20.85	26.10' Lt.	589.05	578.07	W21x111	2'-6"	556.11	32.94
P-21	24+13.40	26.10' Lt.	588.75	577.90	W21x111	2'-6"	557.00	31.75
P-22	24+05.93	26.09' Lt.	588.46	577.74	W21x111	2'-6"	556.71	31.75
P-23	23+98.48	26.09' Lt.	588.16	577.57	W21x111	2'-6"	556.41	31.75
P-24	23+91.02	26.10' Lt.	587.86	577.40	W21x111	2'-6"	556.11	31.75
P-25	23+83.57	26.10' Lt.	587.52	577.24	W21x111	2'-6"	557.00	30.52
P-26	23+76.11	26.09' Lt.	587.13	577.07	W21x111	2'-6"	556.61	30.52
P-27	23+68.66	26.09' Lt.	586.74	576.90	W21x111	2'-6"	556.22	30.52
P-28	23+61.20	26.10' Lt.	586.35	576.73	W21x111	2'-6"	555.83	30.52
P-29	23+53.74	26.10' Lt.	585.96	576.57	W21x111	2'-6"	557.00	28.96
P-30	23+46.29	26.09' Lt.	585.57	576.40	W21x111	2'-6"	556.61	28.96
P-31	23+38.85	26.09' Lt.	585.18	576.23	W21x111	2'-6"	556.22	28.96
P-32	23+31.39	26.10' Lt.	584.79	576.07	W21x111	2'-6"	555.83	28.96
P-33	23+25.66	26.11' Lt.	584.49	575.90	W21x111	2'-6"	557.00	27.49
P-34	23+17.18	26.10' Lt.	584.05	575.73	W21x111	2'-6"	556.56	27.49
P-35	23+08.93	26.11' Lt.	583.62	575.56	W21x111	2'-6"	556.13	27.49
P-36	23+01.43	26.11' Lt.	583.23	575.40	W21x111	2'-6"	555.74	27.49
P-37	22+93.51	26.11' Lt.	582.82	575.22	W21x111	2'-6"	557.00	25.82
P-38	22+85.72	26.08' Lt.	582.41	575.05	W21x147	2'-6"	556.59	25.82
P-39	22+71.72	26.08' Lt.	581.68	574.73	W21x147	2'-6"	555.86	25.82
P-40	22+62.95	26.11' Lt.	581.23	574.54	W21x111	2'-6"	557.00	24.23
P-41	22+54.18	26.11' Lt.	580.77	574.64	W21x111	2'-6"	556.54	24.23

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	178	#5	33'-9"	—
h2(E)	54	#5	29'-8"	—
h3(E)	112	#5	23'-10"	—
h4(E)	30	#5	19'-8"	—
h4(E)	36	#5	17'-4"	—
v(E)	31	#5	21'-2"	—
v1(E)	41	#5	26'-10"	—
v2(E)	21	#5	26'-7"	—
v3(E)	31	#5	26'-0"	—
v4(E)	31	#5	25'-0"	—
v5(E)	31	#5	24'-0"	—
v6(E)	31	#5	22'-7"	—
v7(E)	31	#5	20'-9"	—
v8(E)	31	#5	19'-0"	—
v9(E)	31	#5	17'-3"	—
v10(E)	19	#5	15'-10"	—
Structure Excavation		Cu Yd	198	
Concrete Structures		Cu Yd	137	
Protective Coat		Sq Yd	375	
Stud Shear Connectors		Each	884	
Reinforcement Bars, Epoxy Coated		Pound	19,720	
Furnishing Soldier Piles (W Section)		Foot	1,299	
Drilling And Setting Soldier Piles (In Soil)		Cu Ft	5,150	
Drilling And Setting Soldier Piles (In Rock)		Cu Ft	1,000	
Untreated Timber Lagging		Sq Ft	3,051	
Geocomposite Wall Drain		Sq Yd	375	
Pipe Underdrains for Structures 4"		Foot	322	

BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	Bar No.	No. of Bars Per Set	A	B	C
v(E)	1	#5	31	7'-8"	13'-6"	21'-2"
v1(E)	1	#5	41	13'-6"	13'-4"	26'-10"
v2(E)	1	#5	21	13'-4"	13'-3"	26'-7"
v3(E)	1	#5	31	13'-3"	12'-9"	26'-0"
v4(E)	1	#5	31	12'-9"	12'-3"	25'-0"
v5(E)	1	#5	31	12'-3"	11'-9"	24'-0"
v6(E)	1	#5	31	11'-9"	10'-10"	22'-7"
v7(E)	1	#5	31	10'-10"	9'-11"	20'-9"
v8(E)	1	#5	31	9'-11"	9'-1"	19'-0"
v9(E)	1	#5	31	9'-1"	8'-2"	17'-3"
v10(E)	1	#5	19	8'-2"	7'-8"	15'-10"

Minimum Bar Lap

Bar	Lap
#5	3'-9"

LEGEND

F.F. Front Face
 B.F. Back Face

NOTE:
 1. For Notes, see Sheets S2-03 and S2-07.



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - FL	REVISED -
	CHECKED - MAI, JJS	REVISED -

Wang Engineering
 wangeng@wangeng.com
 1145 N MAIN Street
 Lombard, IL 60148
 Telephone: (630) 953-9928
 Fax: (630) 953-9938

BORING LOG RIV-BSB-01
 WEI Job No.: 255-39-01

Datum: NAVD88
 Elevation: 592.99 ft
 North: 1755364.55 ft
 East: 1016267.85 ft
 Station: 25+55.5
 Offset: 9.0 LI

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
592.74	5/8 inch thick ASPHALT --PAVEMENT--							592.5	L _t (%)=37, P _t (%)=20 --%Gravel=0.4 --%Sand=9.6 --%Silt=71.3 --%Clay=18.7 A ₆ (15)						
590.9	White and gray SANDY GRAVEL; damp --AGGREGATE BASE--	1	8 4 5	P	3.00	17		588.6	Brown SILTY LOAM to LOAM, little gravel; moist	11	6 27 33	NP	11		
	Very stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	2	3 4 4	P	2.50	14		584.5	Very dense, brown SANDY GRAVEL; damp --RDR 2--	12	50/1"	NP	4		
		3	2 3 7	P	4.50	15		580.0	Very dense, brown weathered dolostone fragments; damp to saturated --Weathered BEDROCK-- --slow hard drilling; possible bedrock at 30 feet--						
		4	3 4 6	P	4.25	15			Strong, light bluish gray, very poor quality, DOLOSTONE; Very closely to closely spaced, highly weathered, horizontal and vertical JOINTS, with <0.05 inch opening, slicken to slightly rough walls, and <0.2 inch thick clay infill.	13					
		5	3 4 6	P	3.50	15			--RUN 1: 33.0 to 39.0 feet-- --Recovery: 76%-- --RQD: 0%--	14					
		6	3 6 4	B	3.62	14			--RUN 2: 39.0 to 42.0 feet-- --Recovery: 51%-- --RQD: 0%--						
	--brown, black and gray--	7	4 7 6	B	3.36	20			Boring terminated at 42.00 ft						
		8	3 7 7	P	4.00	14									
571.4	Very stiff, black SILTY CLAY; damp --Buried TOPSOIL--	9	4 4 7	P	3.50	28		564.4							
570.0	Stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel; damp --RDR 2--	10	4 4 7	B	1.80	25									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-17-2021	Complete Drilling	11-17-2021	While Drilling	∇	30.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▼	core wash 3ft	
Driller	RH&JD	Logger	M. Rojo	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25" ID HSA; boring backfilled upon completion			Depth to Water	∇	NA	

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 1145 N MAIN Street
 Lombard, IL 60148
 Telephone: (630) 953-9928
 Fax: (630) 953-9938

BORING LOG RIV-RWB-01HA
 WEI Job No.: 255-39-01

Datum: NAVD88
 Elevation: 580.42 ft
 North: 1755605.33 ft
 East: 1016273.97 ft
 Station: 23+14.5
 Offset: 27.3 LT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
589.31	5/8 inch thick, brown SANDY GRAVEL --FILL--	1		PUSH		4.50	15								
	Very stiff to hard, brown and gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --FILL--	2		PUSH		4.50	13								
		3		PUSH		3.50	18								
		4		PUSH		4.50	13								
		5		PUSH		4.00	15								
		6		PUSH		4.50	18								
		7		PUSH		3.00	16								
		8		PUSH		4.50	17								
	Boring terminated at 16.00 ft														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-02-2021	Complete Drilling	12-02-2021	While Drilling	∇	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▼	DRY	
Driller	RH&AG	Logger	M. Rojo	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	1" ID HSA; boring backfilled upon completion			Depth to Water	∇	NA	

MODEL: Default
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 5)
 STRUCTURE NO. 099-W805
 SHEET S2-12 OF S2-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	77
CONTRACT NO. 62P67			ILLINOIS FED. AID PROJECT	

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BORING LOG RIV-RWB-02
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 586.01 ft
 North: 1755590.26 ft
 East: 1016257.77 ft
 Station: 23+28.6
 Offset: 10.3 L I

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
585.4	7 inch thick ASPHALT														
585.1	-PAVEMENT-														
	4-inch thick, gray and white SANDY GRAVEL														
	-BASE COURSE-														
	Very stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp														
	-FILL--														
	-RDR 2--														
		1	P	1	6 12 10	4.50	13								
		2	P	2	6 7 8	4.50	16								
		3	P	3	4 5 0	4.02	16								
		4	P	4	5 6 7	4.50	16								
		5	P	5	4 7 9	4.00	14								
		6	P	6	5 7 6	4.25	10								
570.5	Very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp														
	-RDR 2--														
568.0	-L ₁ (%)=39, P ₁ (%)=15-- -%Gravel=2.8-- -%Sand=8.8-- -%Silt=60.5-- -%Clay=28.0-- -A-6 (21)--														
		7	P	7	4 8 12	2.79	26								
564.9	Loose to very dense, brown and gray SILTY LOAM to LOAM, trace gravel; moist														
	-RDR 2--														
		8	P	8	2 2 3	NP	16								
		9	P	9	50/1"	NP	16								
562.5	-RDR 3-- -Weathered BEDROCK--														
		10	P	10											
		11	P	11											
		12	P	12											
		13	P	13											
		14	P	14											
		15	P	15											
		16	P	16											
		17	P	17											
		18	P	18											
		19	P	19											
		20	P	20											
		21	P	21											
		22	P	22											
		23	P	23											
		24	P	24											
		25	P	25											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-22-2021	Complete Drilling	11-22-2021	While Drilling	▽	19.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T[81%]	At Completion of Drilling	▽	core wash 12ft	
Driller	RR&AG	Logger	M. Rojo	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG RIV-RWB-02HA
 WEI Job No.: 255-39-01

Datum: NAVD88
 Elevation: 580.28 ft
 North: 1755566.55 ft
 East: 1016280.01 ft
 Station: 23+53.5
 Offset: 31.1 LT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
589.21	21-inch thick, brown SANDY GRAVEL														
	-FILL--														
	Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel; damp														
	-FILL--														
		1	P	1		4.50	16								
		2	P	2		4.50	17								
		3	P	3		NR									
		4	P	4		3.50	16								
		5	P	5		4.25	17								
		6	P	6		3.00	16								
		7	P	7		4.50	15								
		8	P	8		4.50	16								
564.3	Boring terminated at 16.00 ft														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-02-2021	Complete Drilling	12-02-2021	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▽	DRY	
Driller	RH&AG	Logger	M. Rojo	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	1" ID HSA; boring backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 2 OF 5)
 STRUCTURE NO. 099-W805
 SHEET S2-13 OF S2-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	78
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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BORING LOG RIV-RWB-03
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 588.66 ft
 North: 1755530.59 ft
 East: 1016260.22 ft
 Station: 23+88.2
 Offset: 9.4 LI

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
587.7	11 inch thick ASPHALT --PAVEMENT--														
	Stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	1	PUSH	1	6 8 8	7.63	14								
		2	PUSH	2	5 8 8	7.54	13								
		3	PUSH	3	4 6 0	4.50	16								
		4	PUSH	4	3 5 8	4.50	14								
		5	PUSH	5	3 5 8	4.50	14								
		6	PUSH	6	4 5 6	4.50	19								
		7	PUSH	7	4 7 8	4.50	16								
589.2	Stiff (1.50P), black SILTY CLAY to SILTY CLAY LOAM, trace gravel and organic matter; damp --BURIED TOPSOIL--	8	PUSH	8	3 5 10	1.89	23								
588.2	Medium dense, brown SILTY LOAM, trace gravel; saturated --RDR 2--	9	PUSH	9	5 4 8	NP	16								
585.2	--AUGER REFUSAL-- Boring terminated at 23.50 ft														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-18-2021	Complete Drilling	11-18-2021	While Drilling	▽	22.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T[81%]	At Completion of Drilling	▽	DRY	
Driller	RR&AG	Logger	D. You	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	2.25" ID. HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG RIV-RWB-03HA
 WEI Job No.: 255-39-01

Datum: NAVD88
 Elevation: 579.35 ft
 North: 1755492.34 ft
 East: 1016288.92 ft
 Station: 24+27.7
 Offset: 36.2 LT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
579.31	11-inch thick, brown SANDY GRAVEL --FILL--														
	Very stiff to hard, gray and brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL--	1	PUSH	1		4.50	16								
		2	PUSH	2		3.00	18								
		3	PUSH	3		4.00	17								
		4	PUSH	4		4.50	17								
		5	PUSH	5		4.50	14								
		6	PUSH	6		2.50	19								
		7	PUSH	7		2.50	16								
		8	PUSH	8		2.50	20								
563.4	Boring terminated at 16.00 ft														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-01-2021	Complete Drilling	12-01-2021	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▽	DRY	
Driller	RH&AG	Logger	M. Rojo	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	1" ID. HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BORING LOGS (SHEET 3 OF 5)
 STRUCTURE NO. 099-W805
 SHEET S2-14 OF S2-16 SHEETS

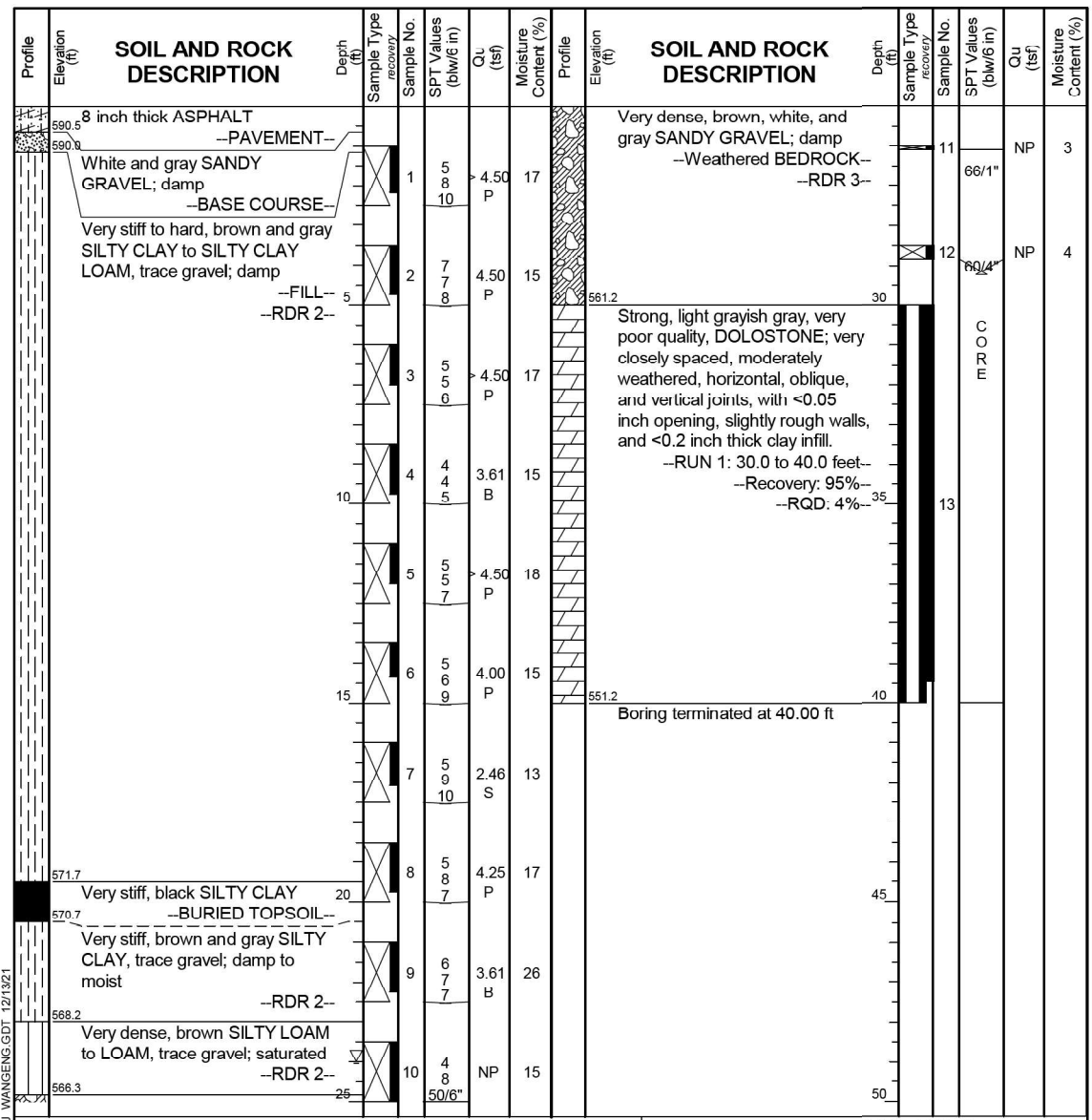
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	79
CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		

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BORING LOG RIV-RWB-04
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 591.16 ft
 North: 1755445.63 ft
 East: 1016263.17 ft
 Station: 24+73.1
 Offset: 8.6 LI

Page 1 of 1



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-19-2021	Complete Drilling	11-19-2021
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T[81%]
Driller	RH&JD	Logger	M. Rojo
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" ID HSA; boring backfilled upon completion	Depth to Water	NA

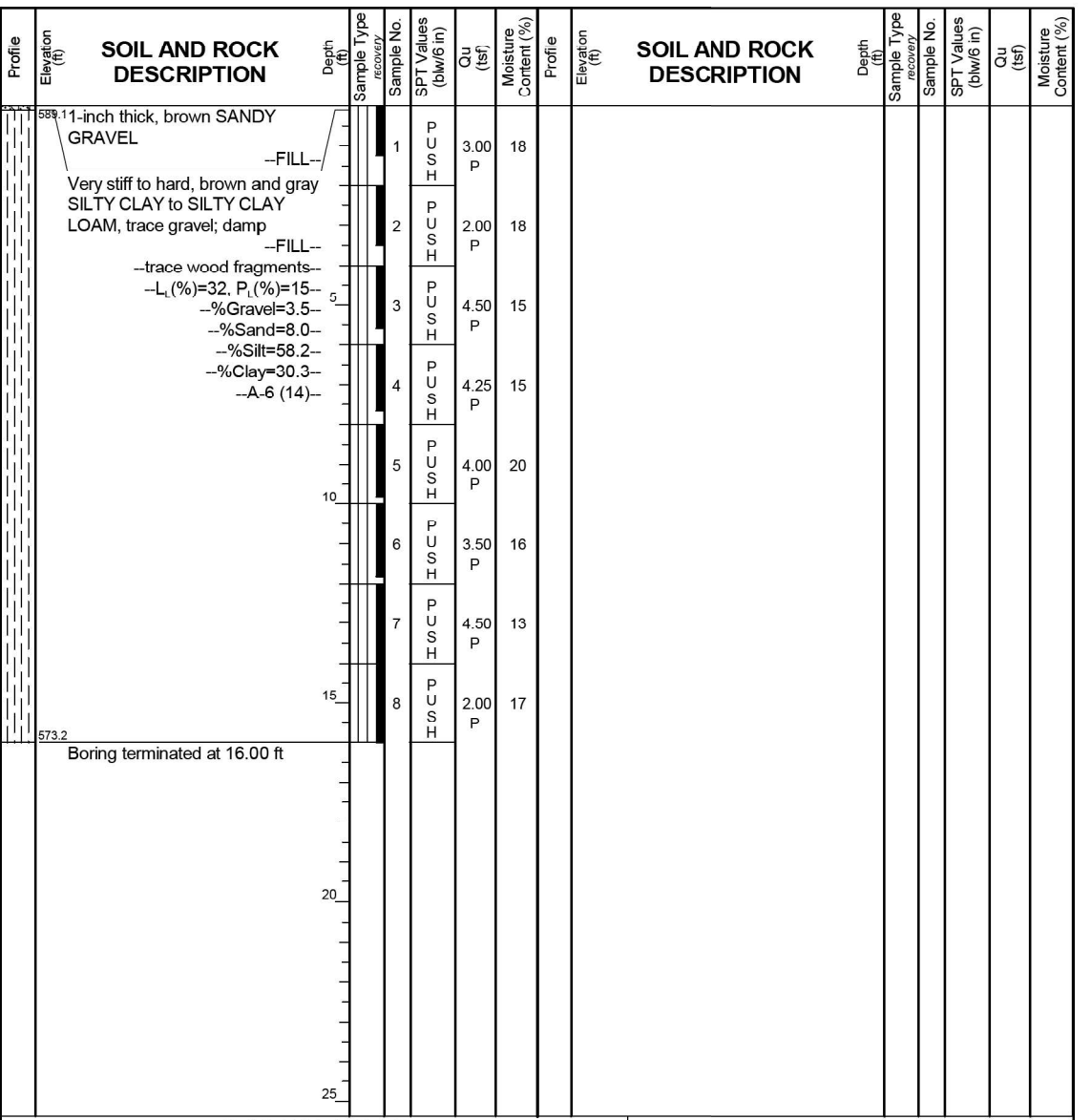
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RIV-RWB-05HA
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD88
 Elevation: 589.19 ft
 North: 1755351.72 ft
 East: 1016279.92 ft
 Station: 25+67.2
 Offset: 22.8 LT

Page 1 of 1



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-01-2021	Complete Drilling	12-01-2021
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA
Driller	RH&AG	Logger	M. Rojo
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	1" ID HSA; boring backfilled upon completion	Depth to Water	NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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 DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 4 OF 5)
 STRUCTURE NO. 099-W805

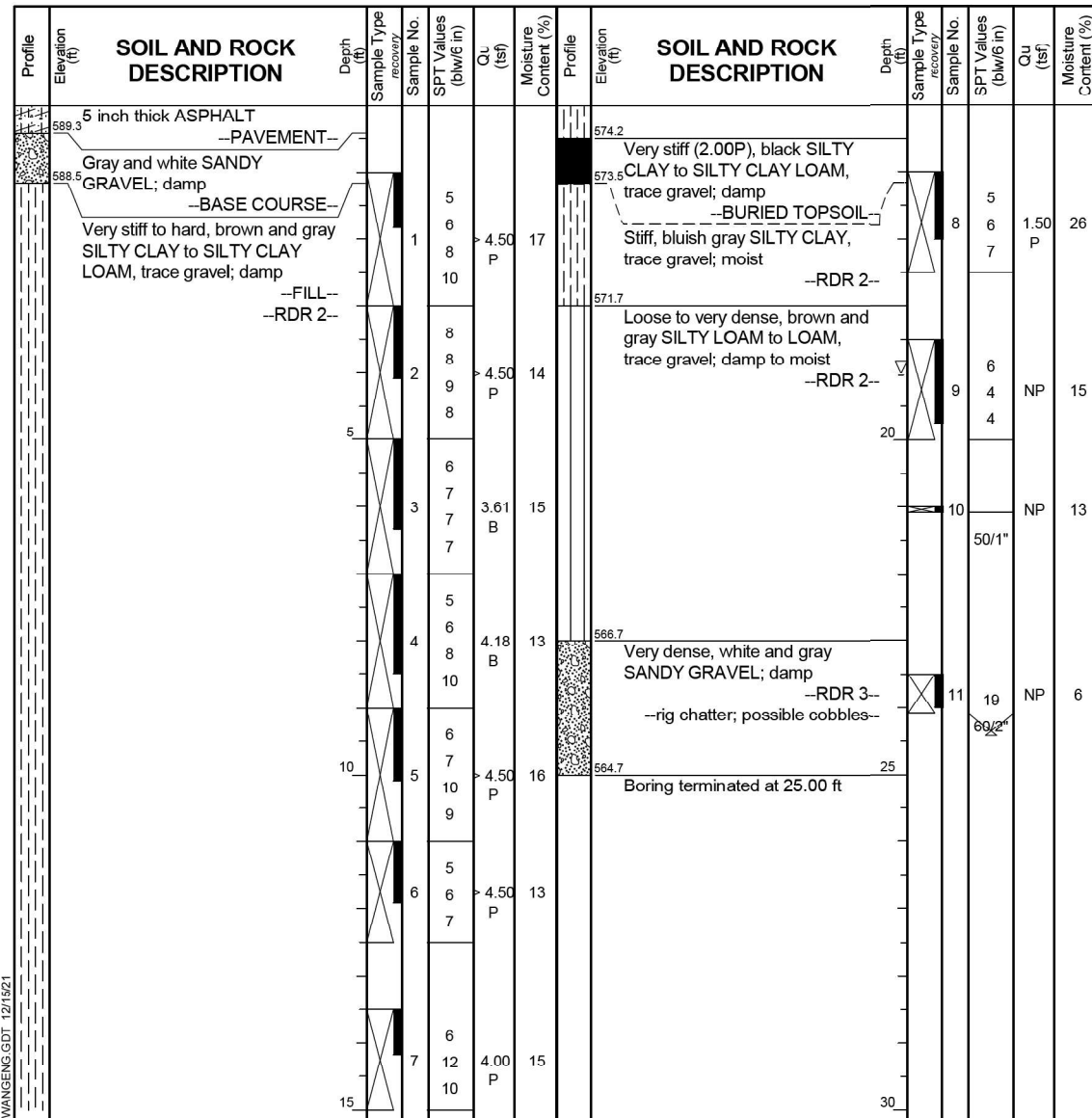
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	80
CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		

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BORING LOG RIV-SGB-01
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 589.67 ft
 North: 1755577.56 ft
 East: 1016242.15 ft
 Station: 23+40.4
 Offset: 6.0 RT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-22-2021	Complete Drilling	11-22-2021
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T(81%)
Driller	RR&AG	Logger	M. Rojo
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" ID HSA; boring backfilled upon completion	Depth to Water	NA

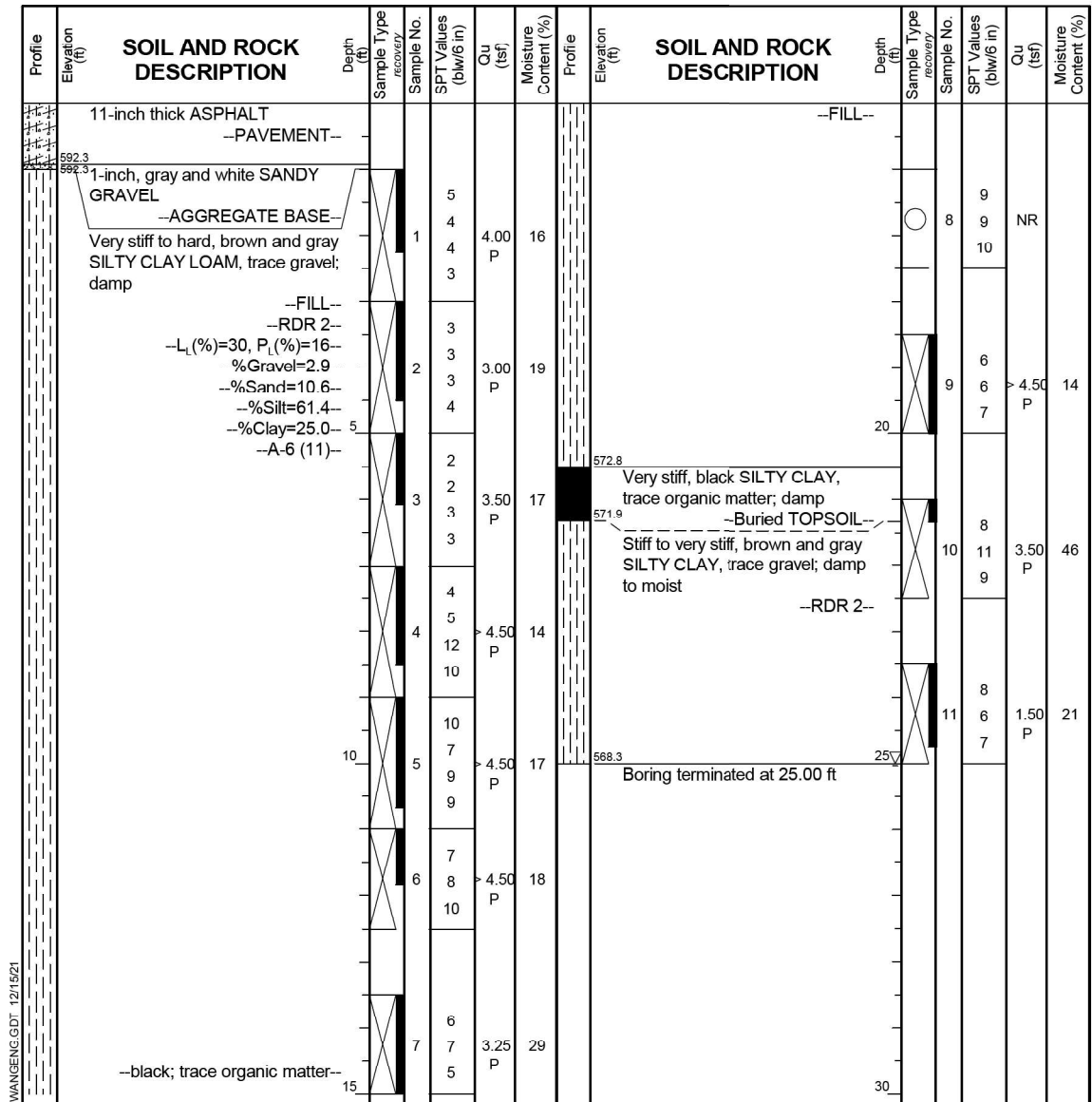
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RIV-SGB-02
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 593.27 ft
 North: 1755353.25 ft
 East: 1016252.19 ft
 Station: 25+65.1
 Offset: 4.9 RT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-19-2021	Complete Drilling	11-19-2021
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T(81%)
Driller	RR&AG	Logger	M. Rojo
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS (SHEET 5 OF 5)
 STRUCTURE NO. 099-W805**

SHEET S2-16 OF S2-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	81
CONTRACT NO. 62P67				
		ILLINOIS	FED. AID PROJECT	

Benchmark: Set 2" CWA Aluminum disc in concrete pier seat in southerly pier of River Road bridge on south side of eastbound I-80, Elev. 575.61.

Existing Structure: None.

Traffic Control: Traffic will be detoured during construction.

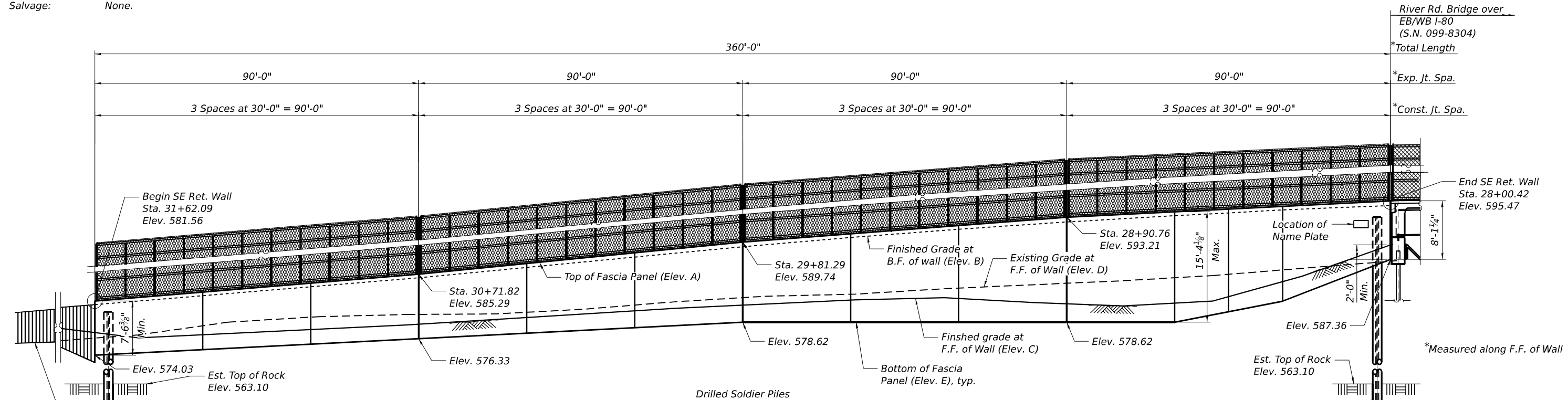
Salvage: None.

DESIGN STRESSES

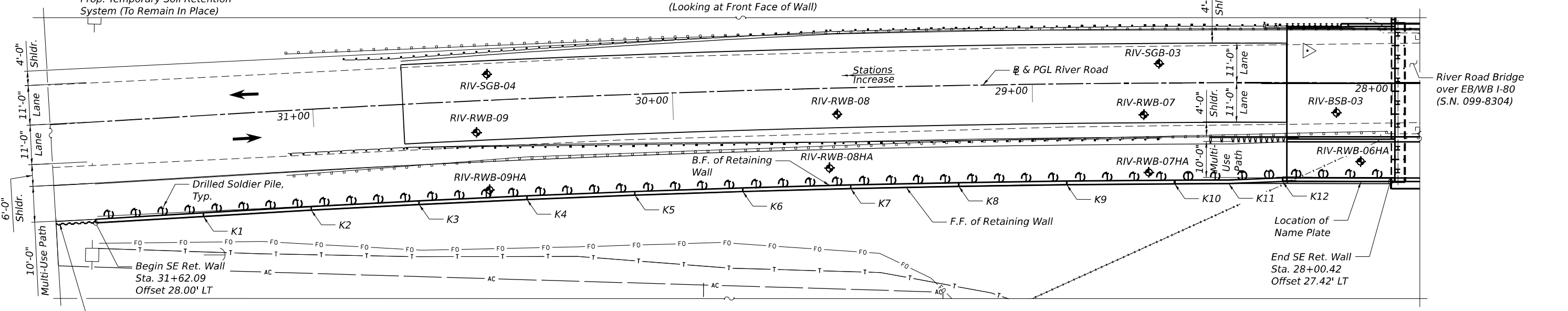
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50) Soldier Piles

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



ELEVATION
(Looking at Front Face of Wall)



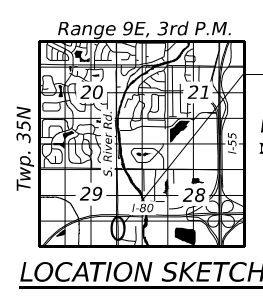
PLAN

NOTES:

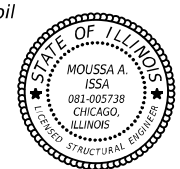
- For General Notes, Index of Sheets, Total Bill of Material, Wall Table Elevations, Profile Grade Line and Curve Data, See Sheet S3-02.
- Stations and offsets are measured from the centerline of River Road to the front face of the cast-in-place concrete facing.
- "K1" denotes wall Kink Point - Number 1. See Wall Elevations Table on Sheet S3-02 for kink point stations and offsets.
- See Civil Plans for Pipe Underdrain outlet details.

LEGEND:

- ◆ Soil Boring
- A — Exist. Aerial Line
- - - - - Prop. Fence
- G — Exist. Guardrail
- - - - - Prop. Guardrail
- AC — Exist. ROW
- T — Exist. Telephone Line
- FO — Exist. Fiber Optic Line
- ~ ~ ~ Prop. Temporary Soil Retention System
- F.F. Front Face
- B.F. Back Face



GENERAL PLAN & ELEVATION
SOUTHEAST RETAINING WALL
 ALONG RIVER ROAD
 F.A.I. RTE. I-80
 SECTION 2021-151-B
 WILL COUNTY
 STA. 28+00.42 TO STA. 31+62.09
 STRUCTURE NO. 099-W806



Signed Moussa A. Issa
 Dr. Moussa A. Issa, S.E. IL Lic. No. 081-005738
 Expires 11-30-2024
 Date 1/27/2023 For Sheets S3-01 Thru S3-16



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PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 099-W806

SHEET S3-01 OF 53-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	82
CONTRACT NO. 62P67				

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GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Protective Coat shall be applied to exposed surfaces of the panels.
3. Wall to be built along straight cords between construction and expansion joints.
4. Soldier piles shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer. Cost included with Furnishing Soldier Piles (W Section).
5. The Contractor shall field-verify locations of existing underground utilities and shall take all necessary precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with retaining wall construction shall be protected, abandoned or relocated based on the results of coordination with the pertinent utility companies and according to directions given on the Civil Plans.
6. Any storage of construction equipment and material behind wall is not allowed.
7. Earth excavation in front of wall shall be gradual and no more than 4'-0" of earth shall be excavated at a time in front of the wall. The elevation difference between adjacent excavated areas in front of wall shall not vary more than 6'-0" over a distance of 50'-0" as measured along the length of the wall.
8. A layer of weathered bedrock is present at the project site as indicated in the soil Boring Logs. The Contractor shall provide a method to ensure the soldier piles achieve at least the plan tip elevation.
9. Commonwealth Edison (ComEd) overhead power line and towers exist near, and cross, the proposed improvement. The Contractor shall coordinate with ComEd by providing detailed staging plans that indicate equipment type (such as crane boom heights) and placement for ComEd review/approval prior to construction activities.
10. The Contractor shall exercise extreme caution in drilling and setting the soldier piles under Aerial Power Lines. The Contractor is responsible to coordinate with utilities to shield, insulate, deenergize or provide other means of protection against these lines if required. The Contractor shall make necessary adjustments to the lengths of the soldier piles and to the auguring equipment to maintain adequate clearance to the Aerial Power Lines as specified in OSHA safety requirements. Lengths of soldier piles and any necessary splice details shall be approved by the Engineer prior to the start of work.

INDEX OF SHEETS

- S3-01 General Plan & Elevation
- S3-02 General Notes, Index of Sheets & Total BOM
- S3-03 Plan and Elevation (Sheet 1 of 4)
- S3-04 Plan and Elevation (Sheet 2 of 4)
- S3-05 Plan and Elevation (Sheet 3 of 4)
- S3-06 Plan and Elevation (Sheet 4 of 4)
- S3-07 Wall Cross Sections and Details (Sheet 1 of 3)
- S3-08 Wall Cross Sections and Details (Sheet 2 of 3)
- S3-09 Wall Cross Sections and Details (Sheet 3 of 3)
- S3-10 Bicycle Railing, Curved & Parapet Railing
- S3-11 Temporary Soil Retention System Details
- S3-12 Boring Logs (Sheet 1 of 5)
- S3-13 Boring Logs (Sheet 2 of 5)
- S3-14 Boring Logs (Sheet 3 of 5)
- S3-15 Boring Logs (Sheet 4 of 5)
- S3-16 Boring Logs (Sheet 5 of 5)

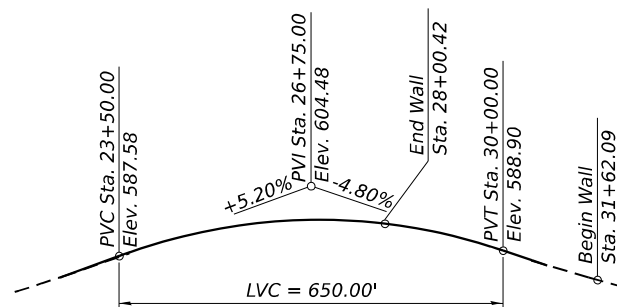
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	194
Concrete Structures	Cu Yd	149
Protective Coat	Sq Yd	407
Stud Shear Connectors	Each	976
Reinforcement Bars, Epoxy Coated	Pound	19,310
Bicycle Railing, Curved	Foot	360
Name Plates	Each	1
Furnishing Soldier Piles (W Section)	Foot	1,333
Drilling And Setting Soldier Piles (In Soil)	Cu Ft	6,367
Drilling And Setting Soldier Piles (In Rock)	Cu Ft	1,155
Untreated Timber Lagging	Sq Ft	3,280
Geocomposite Wall Drain	Sq Yd	405
Pipe Underdrains for Structures 4"	Foot	364
Temporary Soil Retention System (To Remain In Place)	Sq Ft	307

WALL ELEVATIONS TABLE

Location	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E
Begin Wall	31+62.09	28.00' Lt.	581.56	581.06	577.18	576.40	574.03
K1	31+32.09	28.00' Lt.	582.80	582.27	576.88	578.12	574.80
K2	31+02.00	28.00' Lt.	584.05	583.52	577.62	579.32	575.56
K3	30+71.82	28.00' Lt.	585.29	584.79	578.33	579.71	576.33
K4	30+41.64	28.00' Lt.	586.78	586.24	579.23	580.00	577.09
K5	30+11.47	28.00' Lt.	588.26	587.69	580.16	581.00	577.86
K6	29+81.29	28.00' Lt.	589.74	589.11	581.02	582.03	578.62
K7	29+51.11	28.00' Lt.	590.90	590.40	581.69	582.50	578.62
K8	29+20.93	28.00' Lt.	592.06	591.55	581.91	583.37	578.62
K9	28+90.76	28.00' Lt.	593.21	592.56	581.17	584.04	578.62
K10	28+60.58	28.00' Lt.	593.97	593.43	581.28	584.80	578.62
K11	28+45.49	28.00' Lt.	594.34	593.80	582.18	585.28	580.08
K12	28+30.42	27.42' Lt.	594.72	594.22	584.26	585.88	581.53
End Wall	28+00.42	27.42' Lt.	595.47	594.82	589.36	587.09	587.36

Elev. A = Top of Fascia Panel
 Elev. B = Finished Grade at B.F. of Wall
 Elev. C = Finished Grade at F.F. of Wall
 Elev. D = Existing Grade at F.F. of Wall
 Elev. E = Bottom of Fascia Panel



PROFILE GRADE
(Along River Road)

PR CURVE
RR CURVE 2

P.I. Sta. = 29+74.71
 Δ = 03°26'42" (LT)
 D = 01°12'04"
 R = 4,770.00'
 T = 143.44'
 L = 286.80'
 E = 2.16'
 e = N.C.
 T.R. = N/A
 S.E. Run = N/A
 P.C. Sta. = 28+31.27
 P.T. Sta. = 31+18.07

SUGGESTED SEQUENCE OF CONSTRUCTION:

1. Locate existing utilities that are to remain. The Contractor shall coordinate any required improvements to, or removals of, existing utilities with utility owner(s) and IDOT.
2. Install South Abutment steel piles for adjacent River Road Bridge over EB/WB I-80 (SN 099-8304). The construction of the South Abutment concrete and wingwall may be performed at any time following pile installation.
3. Install Drilled Soldier Piles throughout the full length of proposed retaining wall, and install Temporary Soil Retention System (To Remain In Place) at the south end.
4. Excavate for proposed SE Retaining Wall (SN 099-W806) as required and install untreated timber lagging for drilled soldier piles from top down as excavation proceeds. Untreated timber lagging shall also be installed parallel to the wall panel between the Temporary Soil Retention System (To Remain In Place) and the first adjacent soldier pile.
5. Install Geocomposite Wall Drain, pipe underdrain for structures and associated drainage elements.
6. Construct reinforced concrete facing for proposed SE Retaining Wall (SN 099-W806).
7. Construct approach slab and roadway pavement.
8. Backfill to proposed grade at front face of retaining wall, apply protective coat, and install Bicycle Railing, Curved.

STATION 28+00.42 TO STATION 31+62.09
 BUILT 20-- BY
 STATE OF ILLINOIS
 F.A.I. RTE. I-80 SEC. 2021-151-B
 LOADING HL-93
 STRUCTURE NO. 099-W806

NAME PLATE
 See Std. 515001

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USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

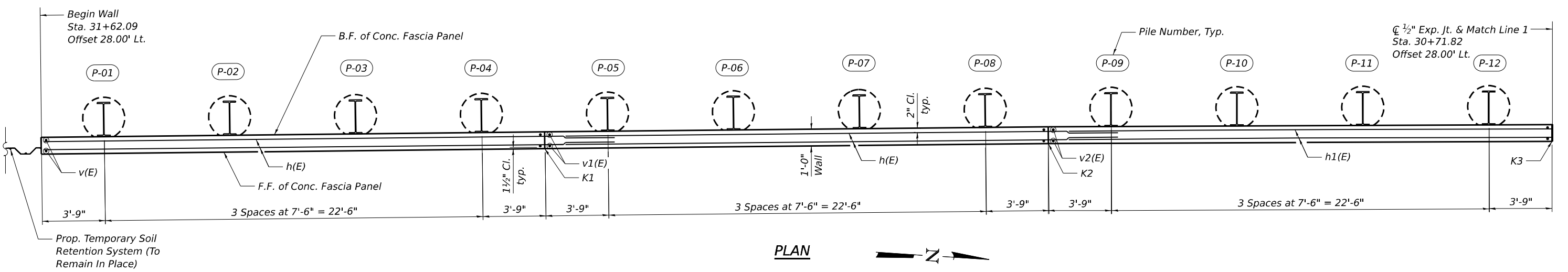
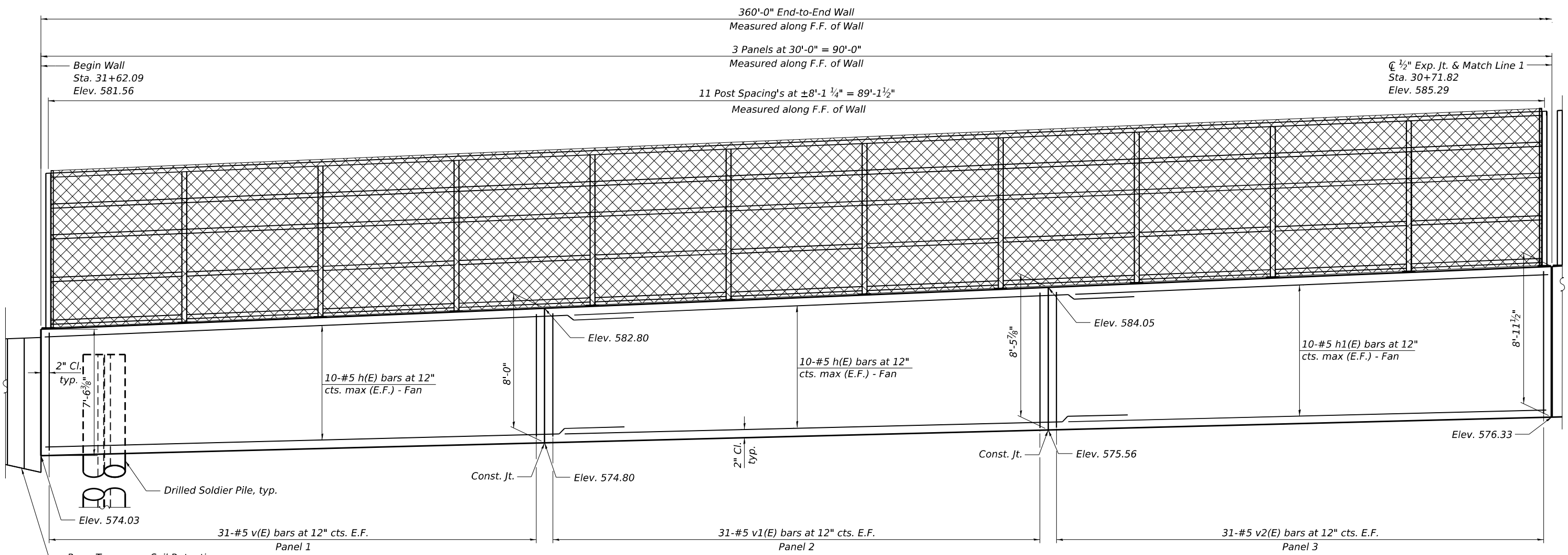
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & TOTAL BOM
STRUCTURE NO. 099-W806

SHEET S3-02 OF S3-16 SHEETS

F.A.I. RTE. 80	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 83
			CONTRACT NO. 62P67	
		ILLINOIS	FED. AID PROJECT	

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- NOTES:**
1. All dimensions are along the F.F. of wall.
 2. For typical wall cross sections and details, see Sheets S3-07 thru S3-09.
 3. For soldier pile layout, minimum bar laps, sections, details, and Bill of Material, see Sheet S3-09.
 4. Stations and offsets are measured along the F.F. of the wall from River Road.

LEGEND

E.F.	-	Each Face
F.F.	-	Front Face
B.F.	-	Back Face



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

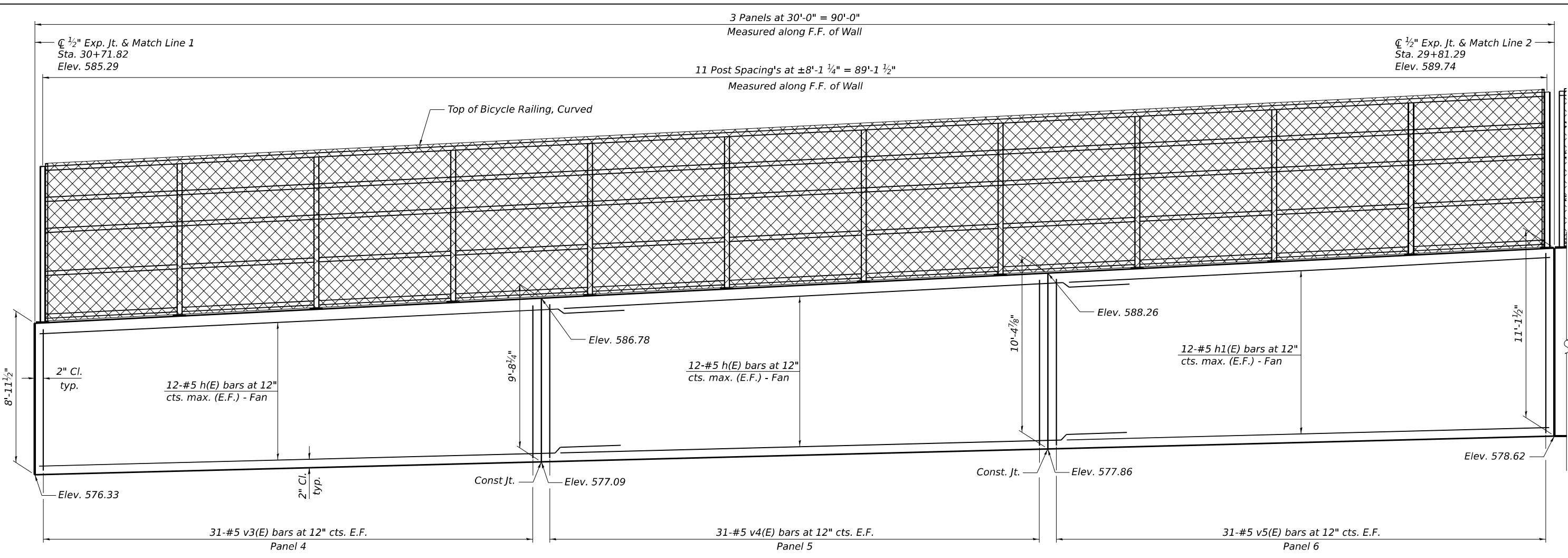
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND ELEVATION (SHEET 1 OF 4)
STRUCTURE NO. 099-W806

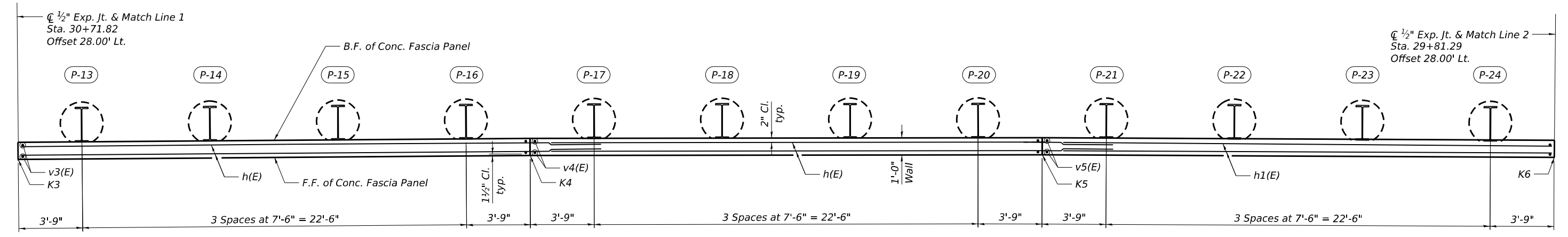
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SHEET S3-03 OF 53-16 SHEETS

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ELEVATION
 (Unfolded View)



PLAN

NOTE:
 1. For Notes, see Sheet S3-03.

LEGEND
 E.F. - Each Face
 F.F. - Front Face
 B.F. - Back Face



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PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
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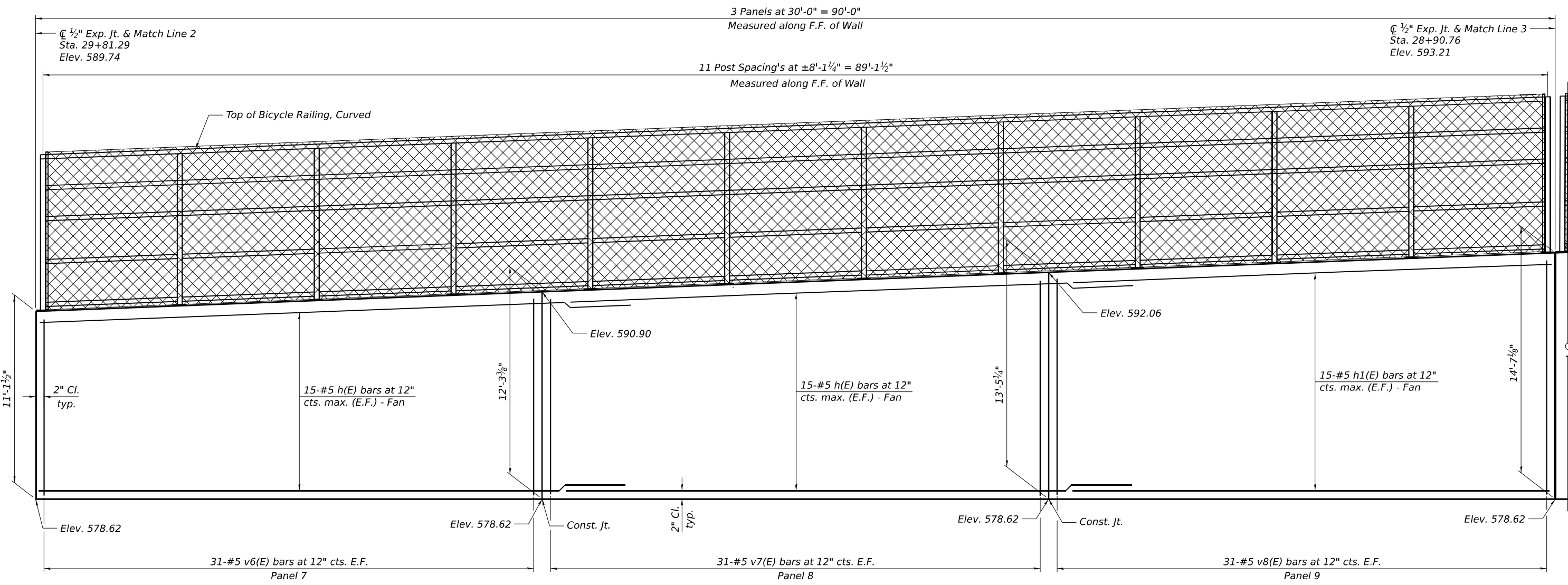
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (SHEET 2 OF 4)
 STRUCTURE NO. 099-W806

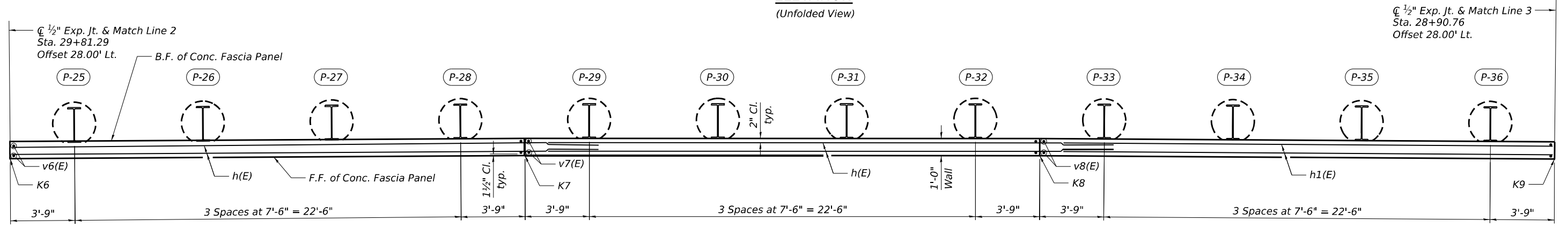
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SHEET S3-04 OF S3-16 SHEETS

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ELEVATION
 (Unfolded View)



PLAN

NOTE:
 1. For Notes, see Sheet S3-03.

LEGEND
 E.F. - Each Face
 F.F. - Front Face
 B.F. - Back Face



USER NAME =	DESIGNED - MAA, SK	REVISED -
	CHECKED - MAI, JJS	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE =	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

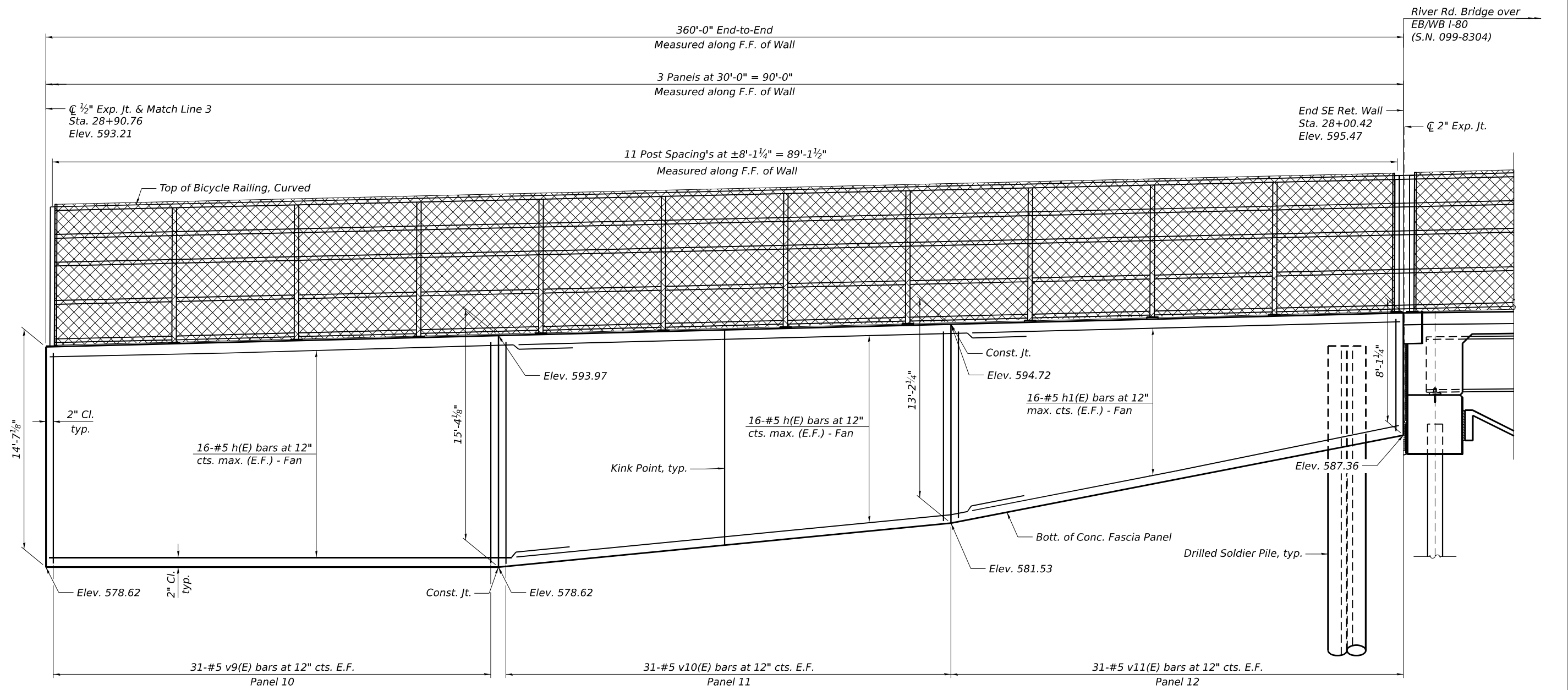
PLAN AND ELEVATION (SHEET 3 OF 4)
 STRUCTURE NO. 099-W806

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CONTRACT NO. 62P67				

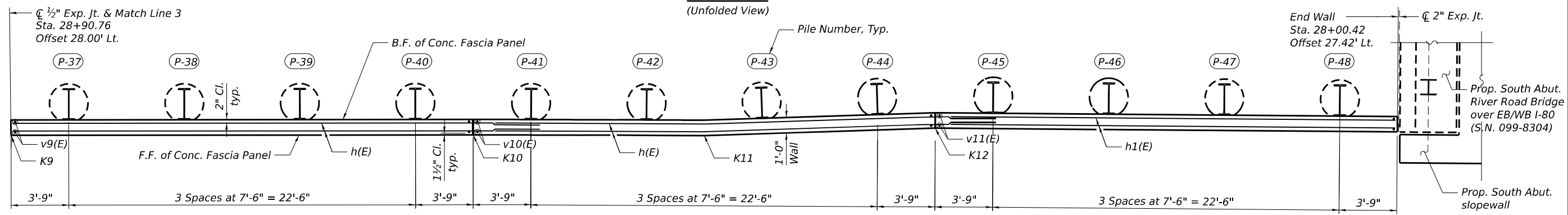
SHEET S3-05 OF 53-16 SHEETS

ILLINOIS FED. AID PROJECT

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ELEVATION
(Unfolded View)



PLAN

NOTE:
 1. For Notes, see Sheet S3-03.

LEGEND
 E.F. - Each Face
 F.F. - Front Face
 B.F. - Back Face



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

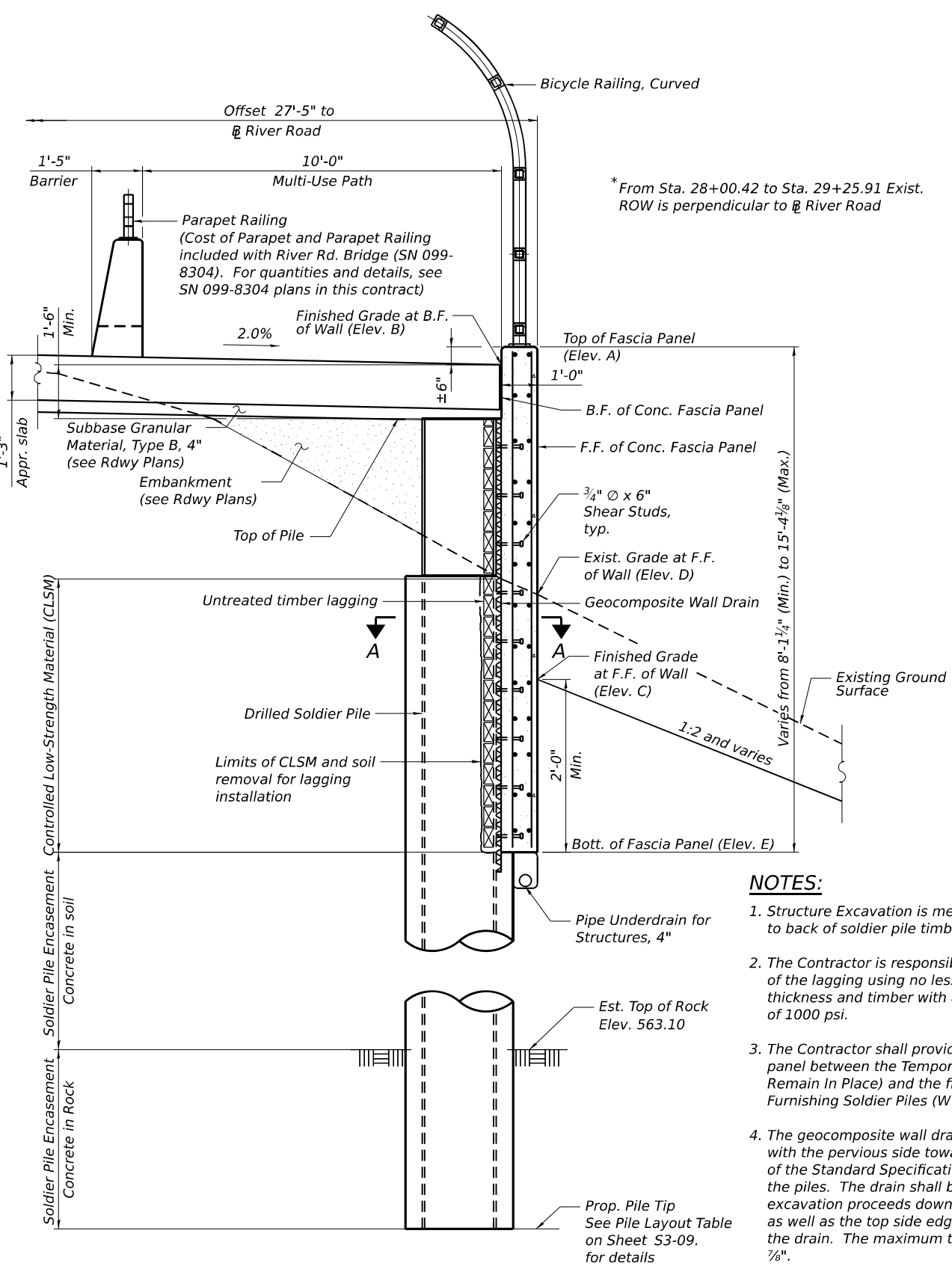
PLAN AND ELEVATION (SHEET 4 OF 4)
 STRUCTURE NO. 099-W806

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CONTRACT NO. 62P67				

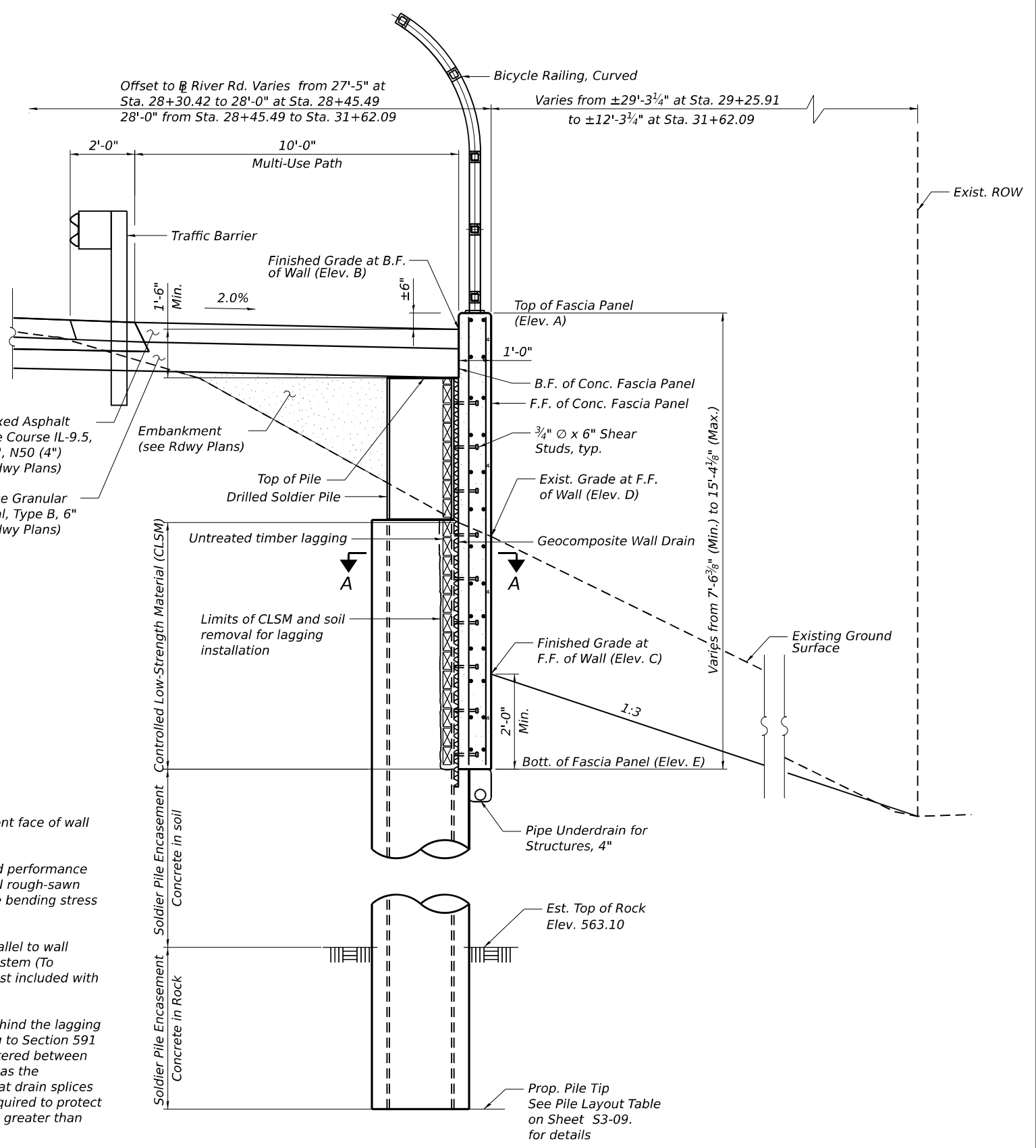
SHEET S3-06 OF 53-16 SHEETS

ILLINOIS FED. AID PROJECT

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TYPICAL CROSS SECTION
 (Looking North)
 (Sta. 28+00.42 to 28+30.42)



TYPICAL CROSS SECTION
 (Looking North)
 (Sta. 28+30.42 to 31+62.09)

NOTES:

1. Structure Excavation is measured 2'-0" from front face of wall to back of soldier pile timber lagging.
2. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. The Contractor shall provide Wood Lagging parallel to wall panel between the Temporary Soil Retention System (To Remain In Place) and the first adjacent pile. Cost included with Furnishing Soldier Piles (W Section).
4. The geocomposite wall drain shall be placed behind the lagging with the pervious side toward the soil according to Section 591 of the Standard Specifications and shall be centered between the piles. The drain shall be installed in stages as the excavation proceeds downward making sure that drain splices as well as the top side edges are covered as required to protect the drain. The maximum thickness shall not be greater than 7/8".
5. Stud shear connectors shall be 3/4" Ø x 6" granular or solid flux filled headed studs, conforming to Article 1006.32 of the Standard Specifications, automatically end welded to the front flange of the soldier piles.
6. For Shear Stud Detail, see Sheet S3-09.
7. For Section A-A, see Sheet S3-08.



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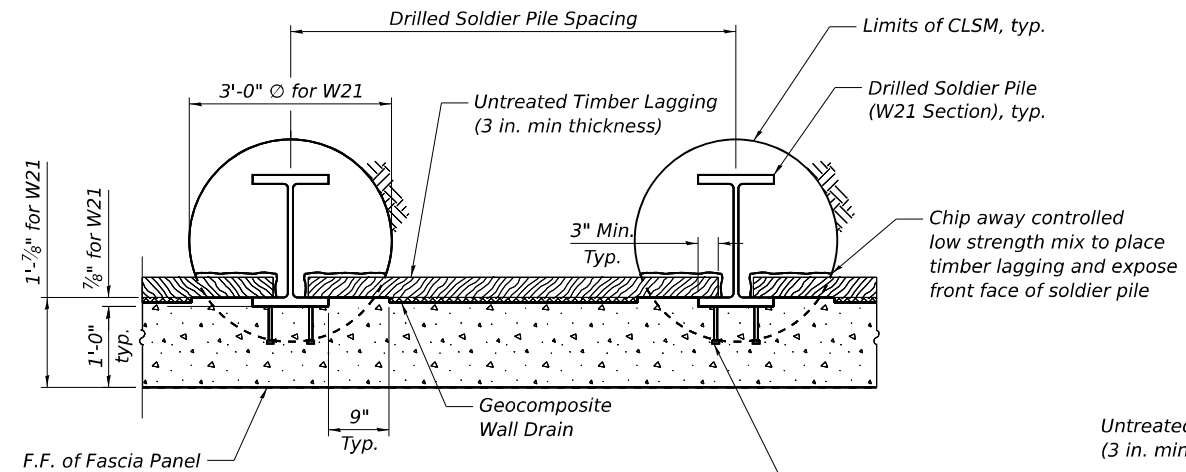
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTIONS AND DETAILS (SHEET 1 OF 3)
 STRUCTURE NO. 099-W806

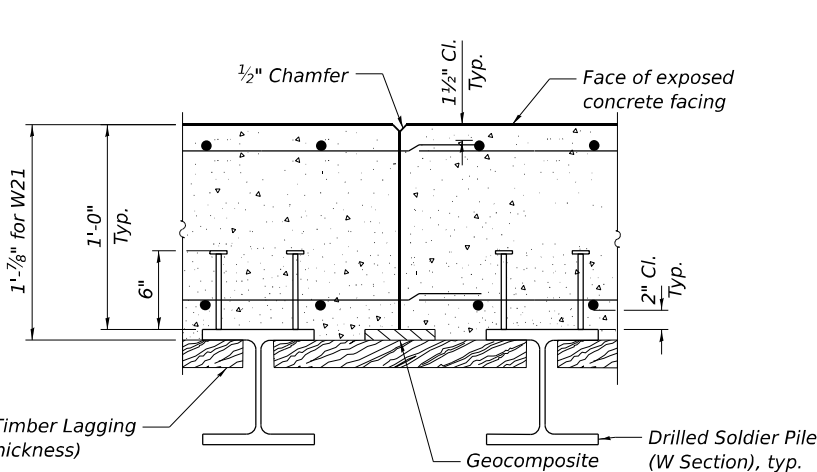
F.A.I. RTE. 80	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 88
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

SHEET S3-07 OF S3-16 SHEETS

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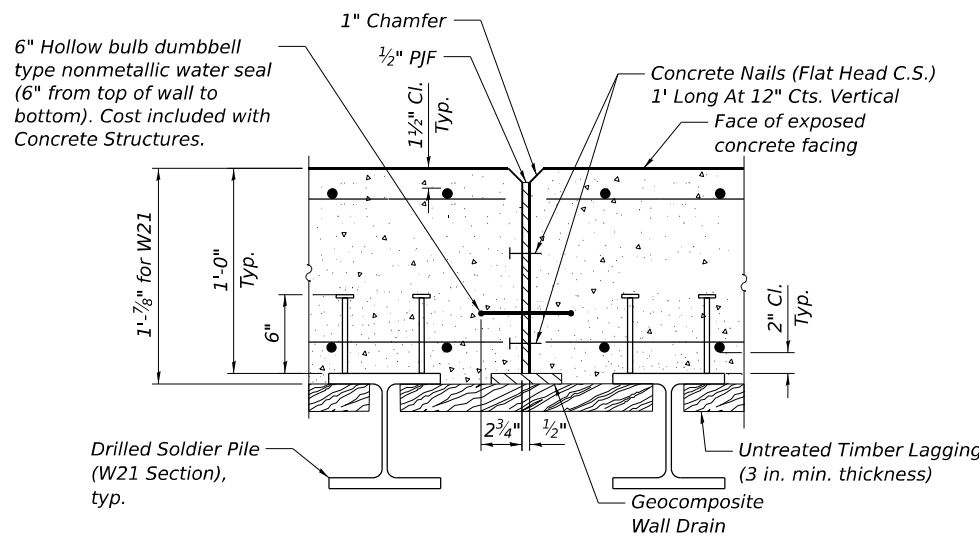


SECTION A-A

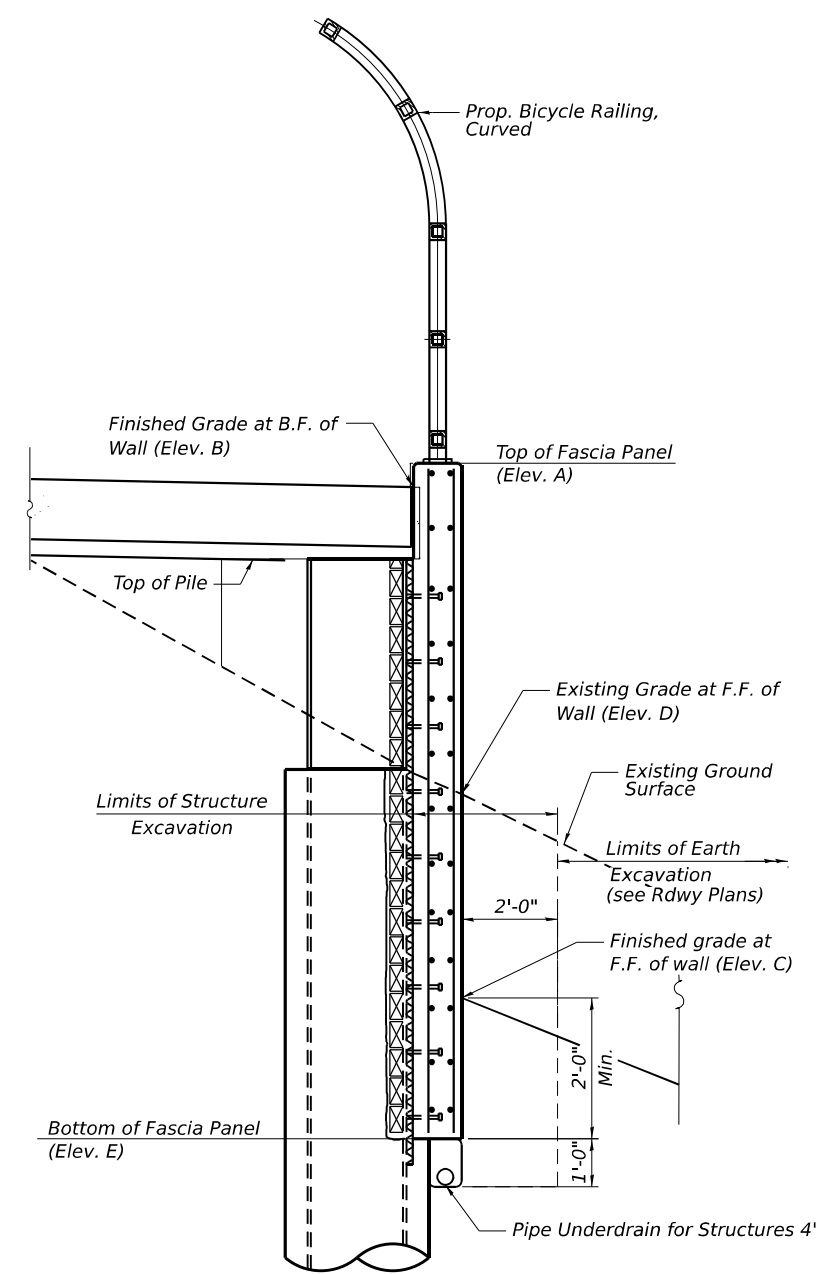


CONSTRUCTION JOINT DETAILS

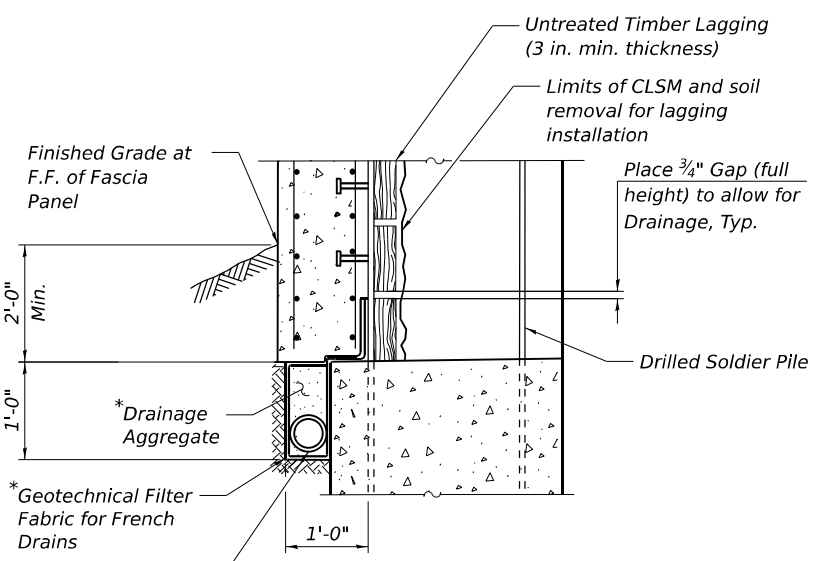
3/4" Ø x 6" Shear Studs, typ.
Granular or solid flux filled headed stud conforming to Article 1006.32 of the Standard Specifications. Automatically end welded.



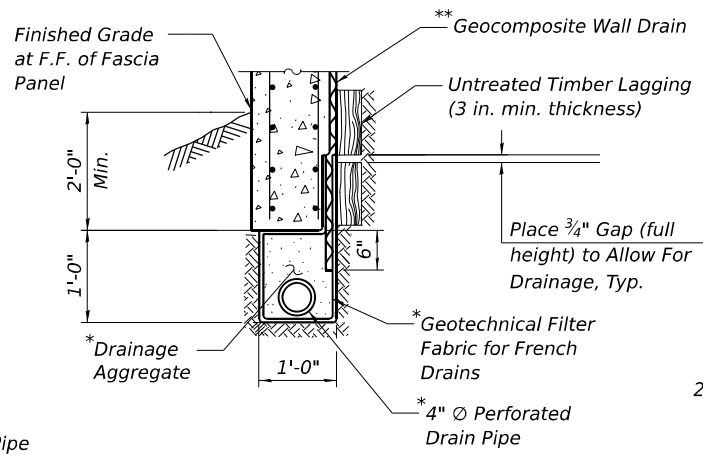
EXPANSION JOINT DETAILS



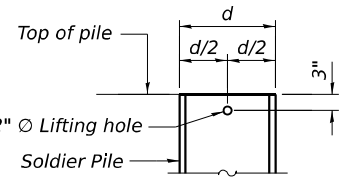
STRUCTURE EXCAVATION
(Looking North)



PIPE UNDERDRAIN DETAIL AT SOLDIER PILE



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES



LIFTING HOLE DETAIL

Prop. Pile Tip
See Pile Layout Table
on Sheet S3-09.
for details

* Included in the cost of Pipe Underdrains for Structures, 4"
** Maximum thickness for Geocomposite wall Drain is 7/8"

LEGEND
F.F. - Front Face
B.F. - Back Face



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAL, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL CROSS SECTIONS AND DETAILS (SHEET 2 OF 3)
STRUCTURE NO. 099-W806**

SHEET S3-08 OF S3-16 SHEETS

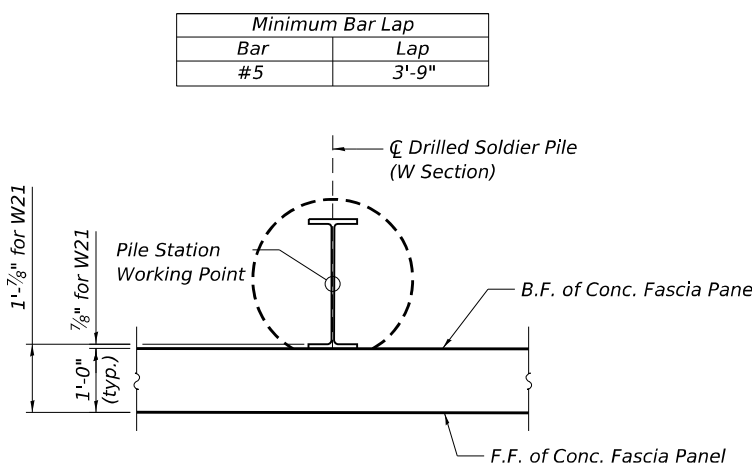
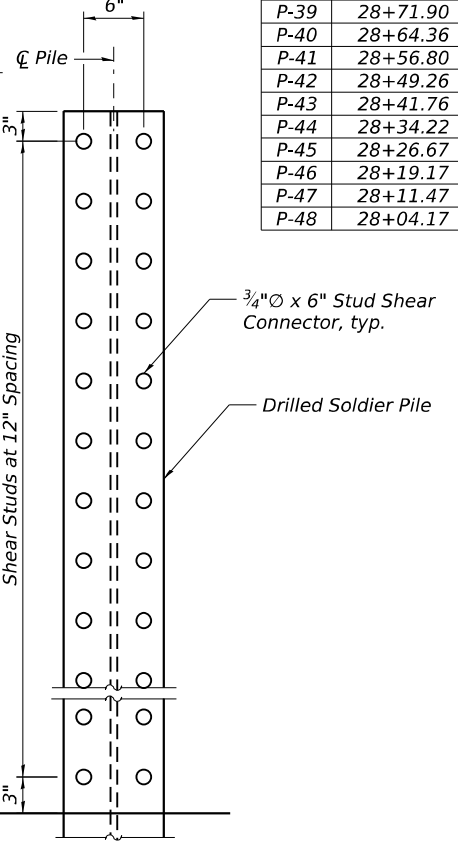
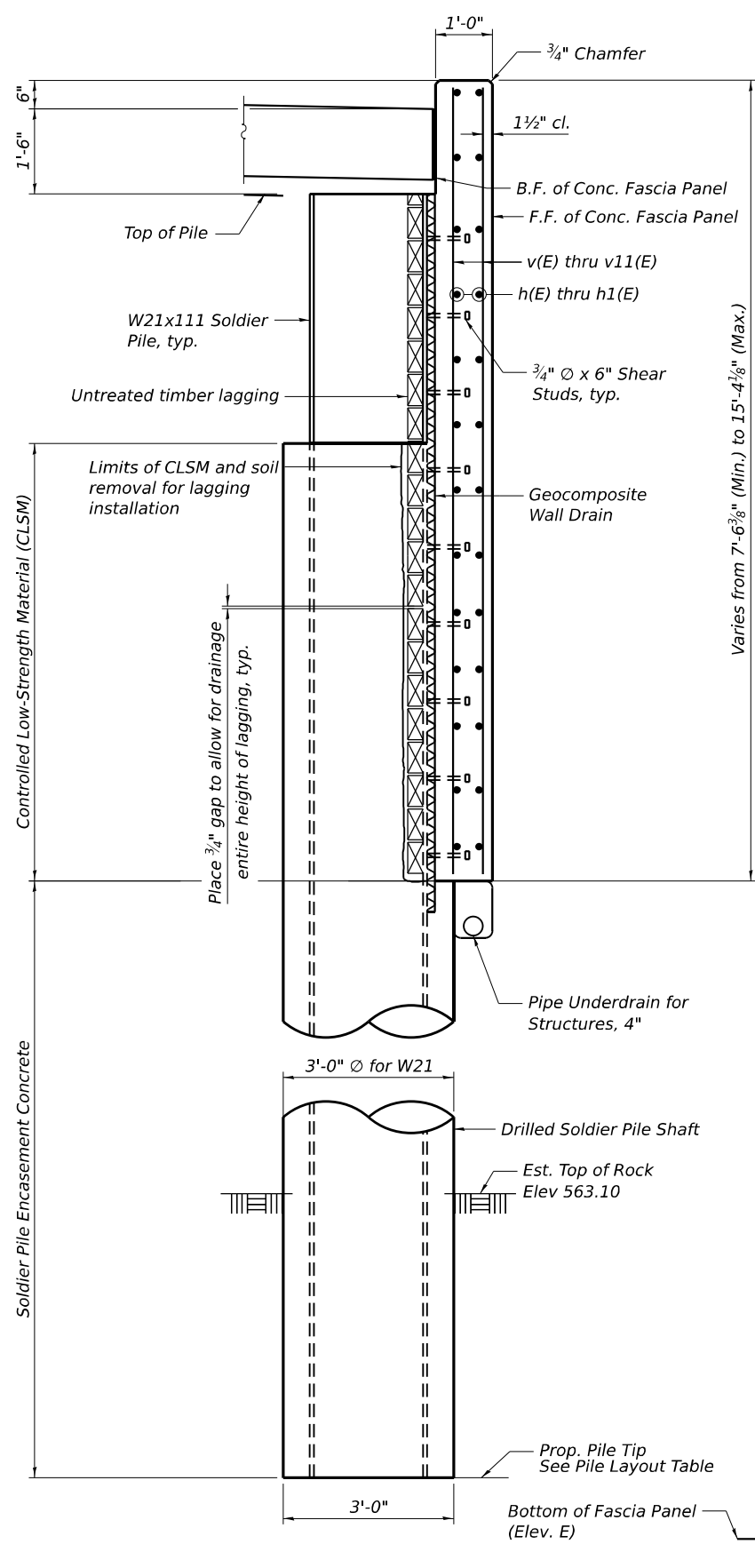
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	89
CONTRACT NO. 62P67				
		ILLINOIS FED. AID PROJECT		

PILE LAYOUT

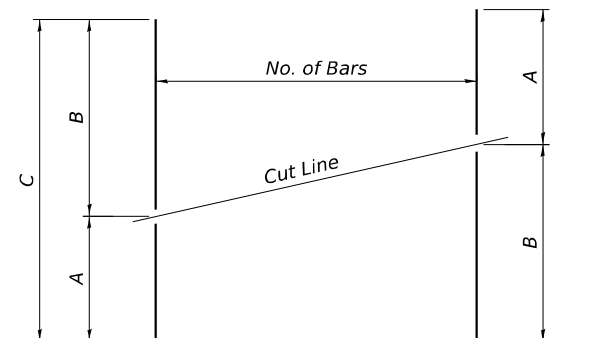
Pile	Station at Working Point	Offset	Top of Pile Elevation	Top of Encasement/Bottom of CLSM	Section	Pile Tip Elevation	Pile Length	Top of Wall
P-01	31+58.34	26.09' Lt.	580.05	574.03	W21x111	559.17	20.88	581.72
P-02	31+50.84	26.09' Lt.	580.36	574.32	W21x111	559.48	20.88	582.03
P-03	31+43.34	26.09' Lt.	580.67	574.51	W21x111	559.79	20.88	582.34
P-04	31+35.84	26.11' Lt.	580.98	574.70	W21x111	560.10	20.88	582.65
P-05	31+28.33	26.11' Lt.	581.29	574.89	W21x111	559.16	22.13	582.96
P-06	31+20.83	26.12' Lt.	581.60	575.08	W21x111	559.47	22.13	583.27
P-07	31+13.30	26.12' Lt.	581.91	575.28	W21x111	559.78	22.13	583.58
P-08	31+05.76	26.11' Lt.	582.23	575.47	W21x111	560.10	22.13	583.89
P-09	30+98.23	26.12' Lt.	582.54	575.66	W21x111	559.17	23.37	584.20
P-10	30+90.69	26.13' Lt.	582.85	575.85	W21x111	559.48	23.37	584.51
P-11	30+83.15	26.13' Lt.	583.16	576.04	W21x111	559.79	23.37	584.82
P-12	30+75.60	26.12' Lt.	583.47	576.23	W21x111	560.10	23.37	585.13
P-13	30+68.05	26.12' Lt.	583.81	576.42	W21x111	558.98	24.83	585.48
P-14	30+60.50	26.13' Lt.	584.18	576.61	W21x111	559.35	24.83	585.85
P-15	30+52.95	26.13' Lt.	584.55	576.80	W21x111	559.72	24.83	586.22
P-16	30+45.41	26.12' Lt.	584.93	577.00	W21x111	560.10	24.83	586.59
P-17	30+37.87	26.12' Lt.	585.30	577.19	W21x111	558.99	26.31	586.96
P-18	30+30.33	26.13' Lt.	585.67	577.38	W21x111	559.36	26.31	587.33
P-19	30+22.79	26.13' Lt.	586.04	577.57	W21x111	559.73	26.31	587.70
P-20	30+15.24	26.12' Lt.	586.41	577.76	W21x111	560.10	26.31	588.08
P-21	30+07.69	26.12' Lt.	586.78	577.95	W21x111	558.99	27.79	588.45
P-22	30+00.15	26.15' Lt.	587.15	578.14	W21x111	559.36	27.79	588.82
P-23	29+92.60	26.18' Lt.	587.52	578.33	W21x111	559.73	27.79	589.19
P-24	29+85.06	26.18' Lt.	587.89	578.52	W21x111	560.10	27.79	589.56
P-25	29+77.51	26.19' Lt.	588.22	578.62	W21x111	559.23	28.99	589.89
P-26	29+69.97	26.18' Lt.	588.51	578.62	W21x111	559.52	28.99	590.18
P-27	29+62.43	26.19' Lt.	588.80	578.62	W21x111	559.81	28.99	590.46
P-28	29+54.89	26.12' Lt.	589.09	578.62	W21x111	560.10	28.99	590.75
P-29	29+47.34	26.12' Lt.	589.38	578.62	W21x111	559.23	30.15	591.04
P-30	29+39.80	26.12' Lt.	589.67	578.62	W21x111	559.52	30.15	591.33
P-31	29+32.25	26.13' Lt.	589.96	578.62	W21x111	559.81	30.15	591.62
P-32	29+24.71	26.12' Lt.	590.25	578.62	W21x111	560.10	30.15	591.91
P-33	29+17.16	26.12' Lt.	590.54	578.62	W21x111	559.24	31.30	592.20
P-34	29+09.62	26.13' Lt.	590.82	578.62	W21x111	559.52	31.30	592.49
P-35	29+02.08	26.13' Lt.	591.11	578.62	W21x111	559.81	31.30	592.78
P-36	28+94.54	26.12' Lt.	591.40	578.62	W21x111	560.10	31.30	593.07
P-37	28+86.98	26.12' Lt.	591.64	578.62	W21x111	559.53	32.11	593.31
P-38	28+79.44	26.13' Lt.	591.83	578.62	W21x111	559.72	32.11	593.50
P-39	28+71.90	26.13' Lt.	592.02	578.62	W21x111	559.91	32.11	593.68
P-40	28+64.36	26.12' Lt.	592.21	578.62	W21x111	560.10	32.11	593.87
P-41	28+56.80	26.11' Lt.	592.40	578.98	W21x111	560.06	32.34	594.06
P-42	28+49.26	26.11' Lt.	592.44	579.71	W21x111	560.10	32.34	594.11
P-43	28+41.76	25.97' Lt.	592.31	580.44	W21x111	559.97	32.34	593.97
P-44	28+34.22	25.67' Lt.	592.31	581.17	W21x111	559.97	32.34	593.98
P-45	28+26.67	25.52' Lt.	593.15	582.26	W21x111	560.10	33.05	594.81
P-46	28+19.17	25.52' Lt.	593.06	583.72	W21x111	560.01	33.05	594.72
P-47	28+11.47	25.52' Lt.	593.06	585.18	W21x111	560.01	33.05	594.73
P-48	28+04.17	25.52' Lt.	593.06	586.63	W21x111	560.01	33.05	594.73

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	212	#5	33'-9"	---
h1(E)	106	#5	29'-8"	---
v(E)	31	#5	14'-10"	---
v1(E)	31	#5	15'-10"	---
v2(E)	31	#5	16'-9"	---
v3(E)	31	#5	17'-11"	---
v4(E)	31	#5	19'-5"	---
v5(E)	31	#5	20'-10"	---
v6(E)	31	#5	22'-8"	---
v7(E)	31	#5	25'-0"	---
v8(E)	31	#5	27'-4"	---
v9(E)	31	#5	29'-3"	---
v10(E)	31	#5	27'-10"	---
v11(E)	31	#5	20'-7"	---
Structure Excavation			Cu Yd	194
Concrete Structures			Cu Yd	149
Protective Coat			Sq Yd	407
Stud Shear Connectors			Each	976
Reinforcement Bars, Epoxy Coated			Pound	19,310
Furnishing Soldier Piles (W Section)			Foot	1,333
Drilling And Setting Soldier Piles (In Soil)			Cu Ft	6,367
Drilling And Setting Soldier Piles (In Rock)			Cu Ft	1,155
Untreated Timber Lagging			Sq Ft	3,280
Geocomposite Wall Drain			Sq Yd	405
Pipe Underdrains for Structures 4"			Foot	364



Minimum Bar Lap	
Bar	Lap
#5	3'-9"



BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	Bar No.	No. of Bars Per Set	A	B	C
v(E)	1	#5	31	7'-2"	7'-8"	14'-10"
v1(E)	1	#5	31	7'-8"	8'-2"	15'-10"
v2(E)	1	#5	31	8'-2"	8'-7"	16'-9"
v3(E)	1	#5	31	8'-7"	9'-4"	17'-11"
v4(E)	1	#5	31	9'-4"	10'-1"	19'-5"
v5(E)	1	#5	31	10'-1"	10'-9"	20'-10"
v6(E)	1	#5	31	10'-9"	11'-11"	22'-8"
v7(E)	1	#5	31	11'-11"	13'-1"	25'-0"
v8(E)	1	#5	31	13'-1"	14'-3"	27'-4"
v9(E)	1	#5	31	14'-3"	15'-0"	29'-3"
v10(E)	1	#5	31	15'-0"	12'-10"	27'-10"
v11(E)	1	#5	31	12'-10"	7'-9"	20'-7"

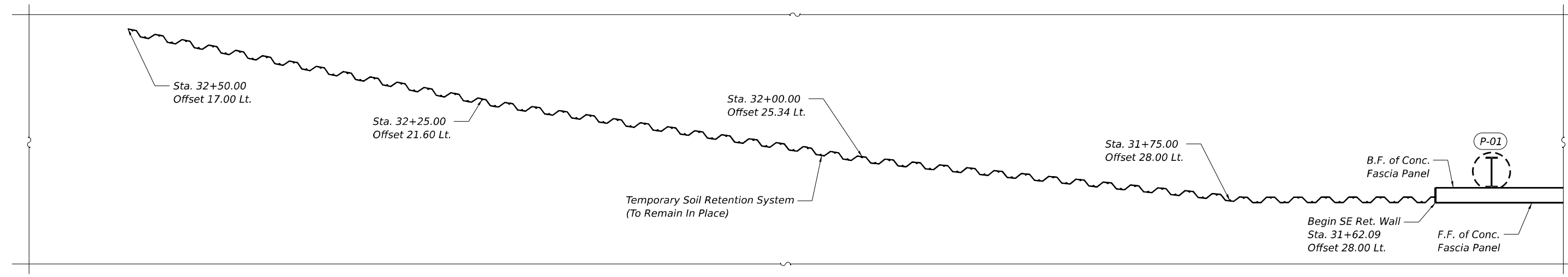
LEGEND

F.F. - Front Face
B.F. - Back Face

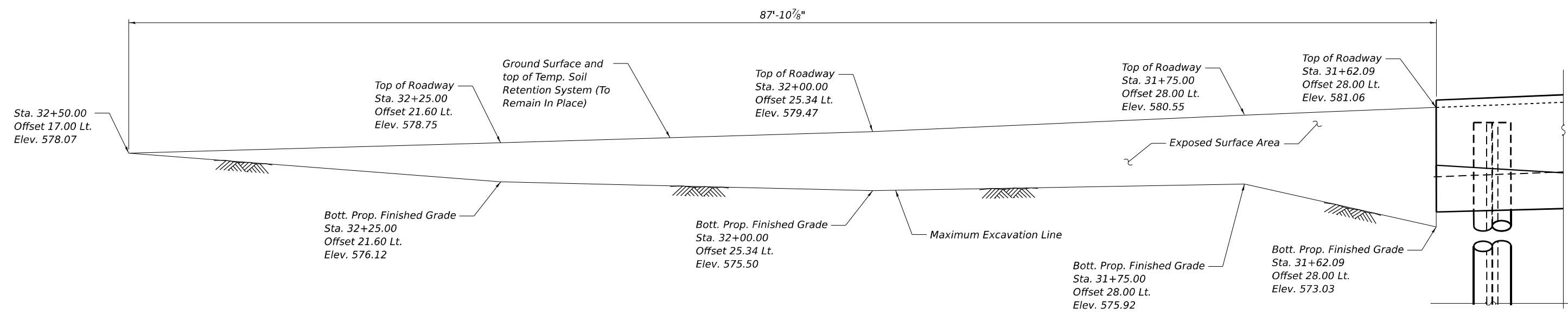
NOTE:

1. For Notes, see Sheets S3-03 and S3-07.

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PARTIAL PLAN AT TEMPORARY SOIL RETENTION SYSTEM



TEMPORARY SOIL RETENTION SYSTEM ELEVATION

NOTES:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. The Temporary Soil Retention System at the south end of proposed retaining wall shall be installed to the limits shown and shall remain in place until such time as remaining portions of the Multi-Use Path are constructed. The Contractor shall submit a soil retention system design, including all necessary plan details and calculations, for review and acceptance by the Engineer. See Special Provision for Temporary Soil Retention System (To Remain in Place).
3. The maximum allowable excavation slope is 1:2 (V:H).

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System (To Remain In Place)	Sq Ft	307

LEGEND

Temporary Soil Retention System (To remain in place)



USER NAME =	DESIGNED - MAA, SK	REVISED -
	CHECKED - MAI, JJS	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE =	CHECKED - MAI, JJS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM DETAILS
STRUCTURE NO. 099-W806**

F.A.I. RTE. 80	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 92
			CONTRACT NO. 62P67	
		ILLINOIS FED. AID PROJECT		

SHEET S3-11 OF 53-16 SHEETS



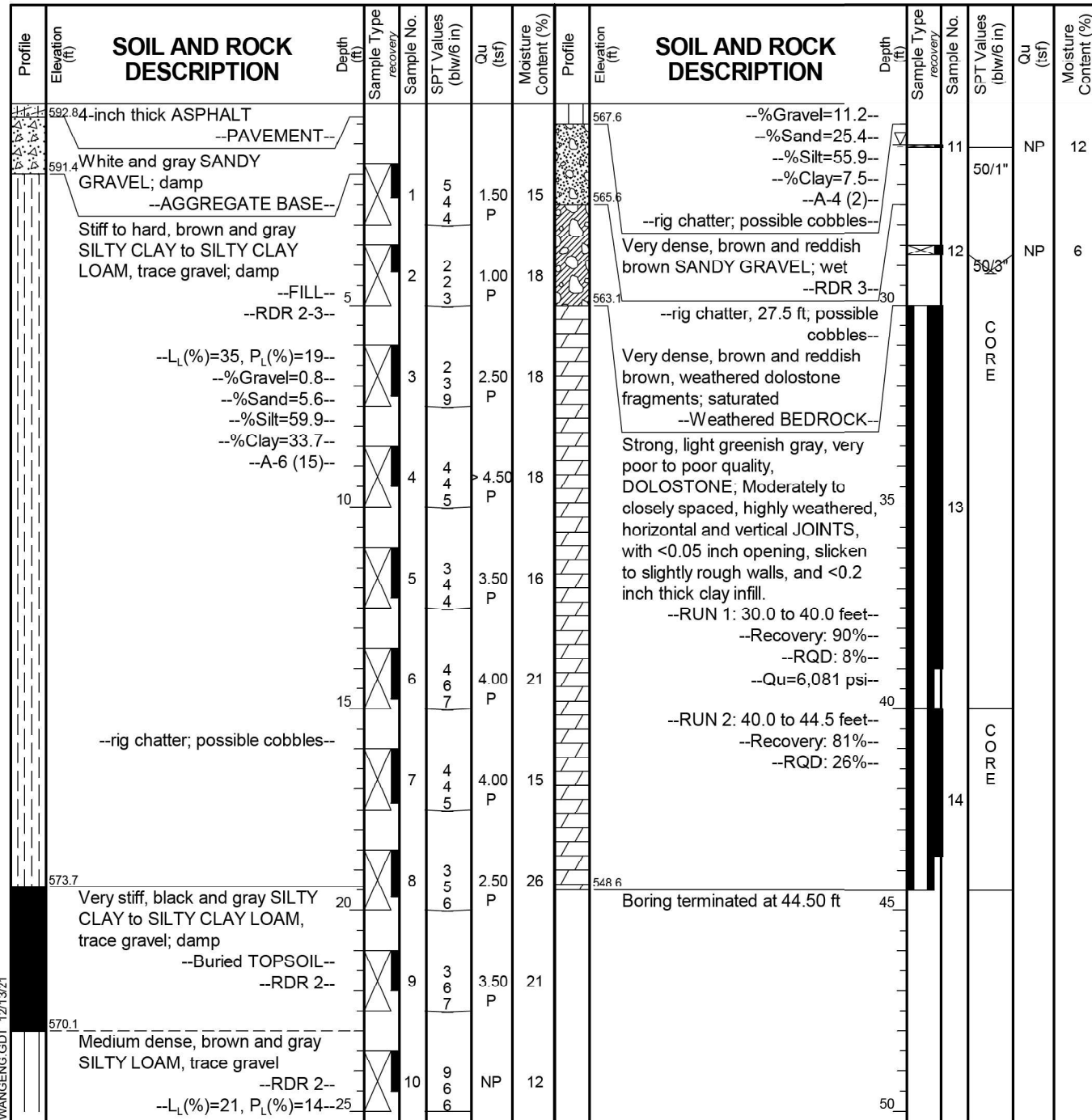
BORING LOG RIV-BSB-03

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 593.11 ft
North: 1755103.18 ft
East: 1016269.75 ft
Station: 28+15.5
Offset: 8.3 LT



GENERAL NOTES

Begin Drilling: 11-16-2021 Complete Drilling: 11-16-2021
 Drilling Contractor: Wang Testing Services Drill Rig: 20D50T [80%]
 Driller: RH&JD Logger: M. Rojo Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 26.00 ft
 At Completion of Drilling: core wash 2.5ft
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



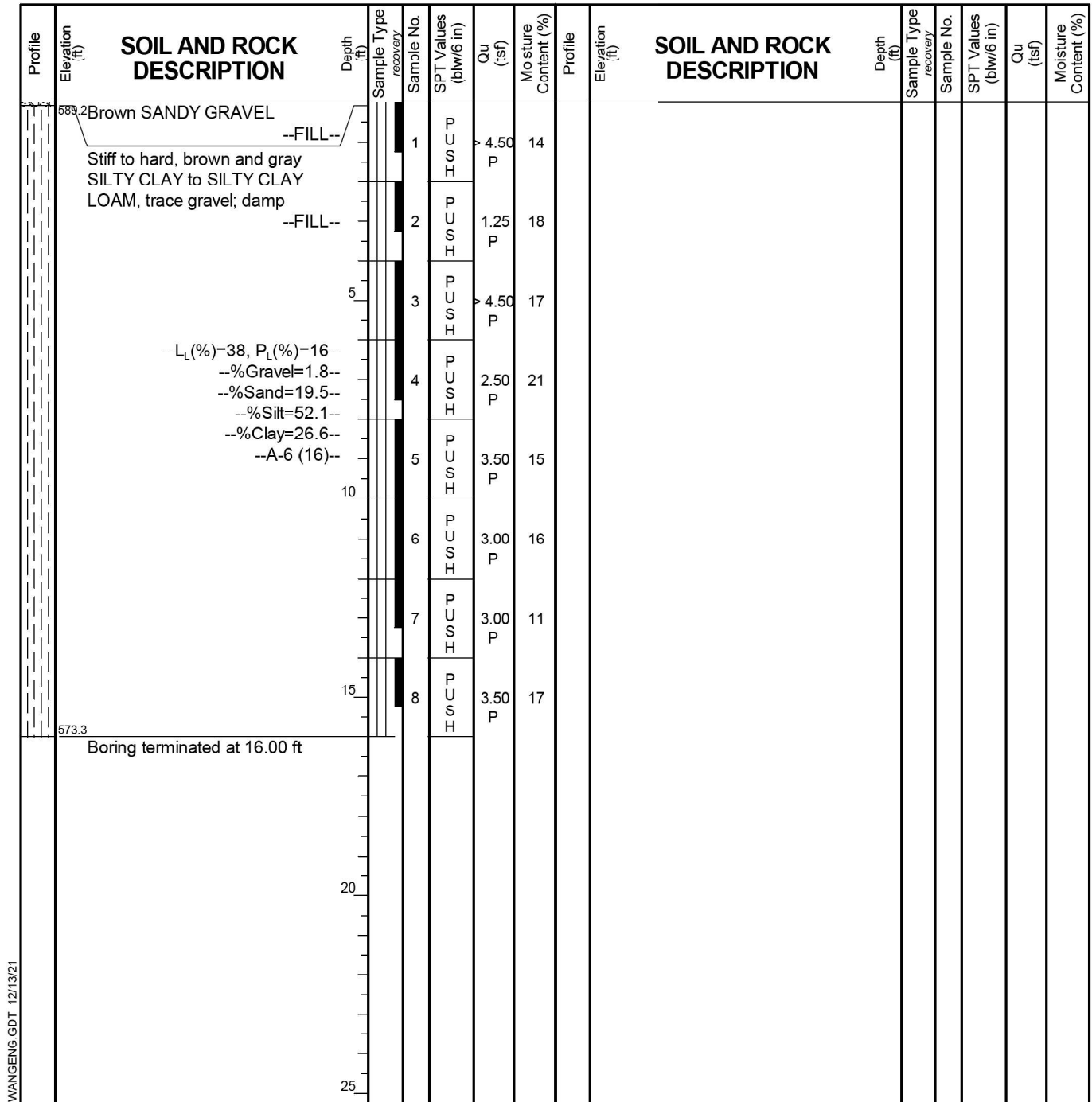
BORING LOG RIV-RWB-06HA

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD88
Elevation: 589.34 ft
North: 1755110.12 ft
East: 1016283.21 ft
Station: 28+08.8
Offset: 21.9 LT



GENERAL NOTES

Begin Drilling: 11-30-2021 Complete Drilling: 12-01-2021
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: RH&AG Logger: M. Rojo Checked by: C. Marin
 Drilling Method: 1" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WANGENGINC 2553901.GPJ WANGENG.GDT 12/13/21



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAL, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAL, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 5)
STRUCTURE NO. 099-W806

SHEET S3-12 OF S3-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	93
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				



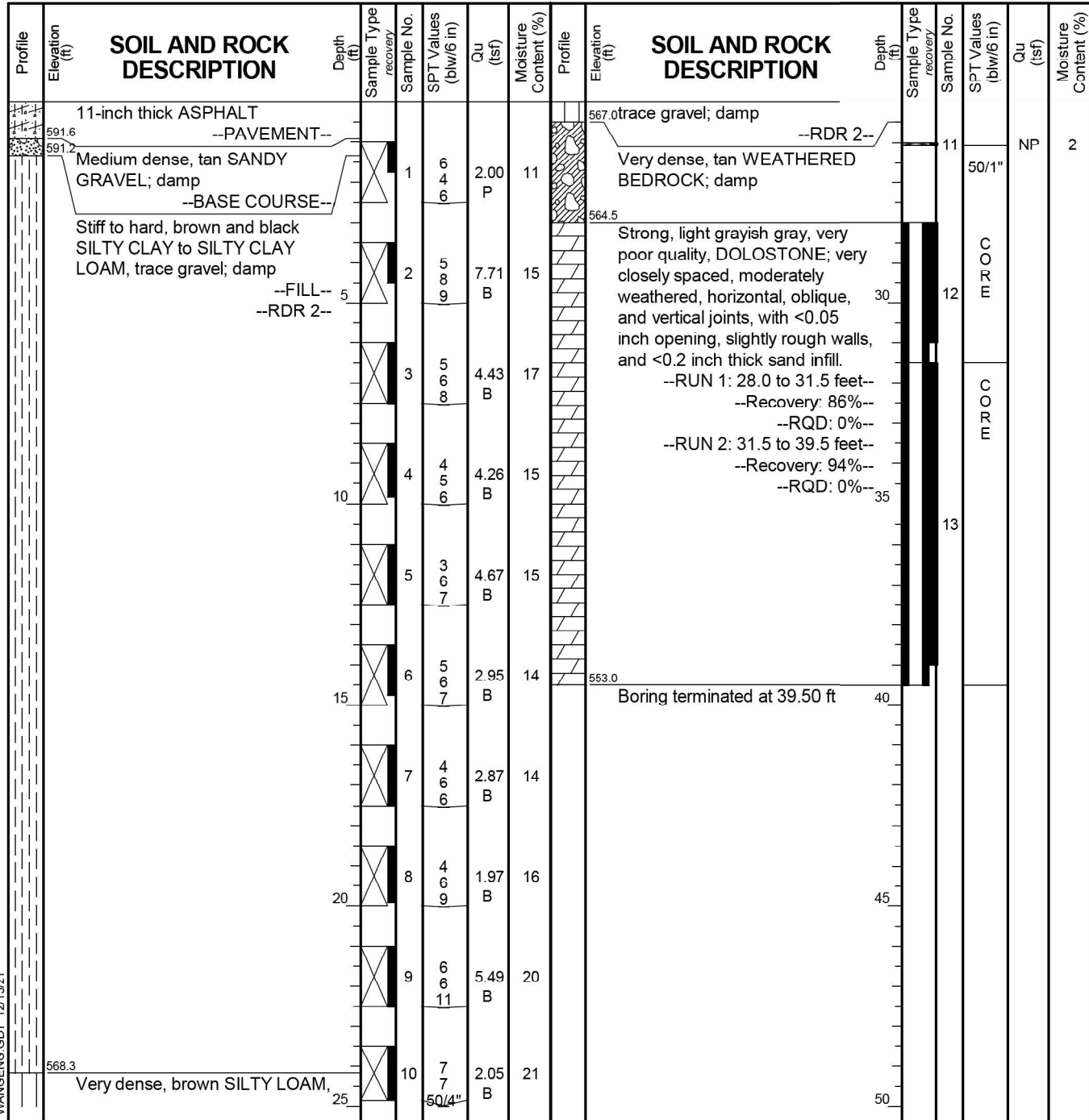
BORING LOG RIV-RWB-07

wangeng@wangeng.com
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Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 592.50 ft
North: 1755049.72 ft
East: 1016271.73 ft
Station: 28+69.1
Offset: 8.8 LT



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-18-2021	Complete Drilling	11-18-2021	While Drilling	DRY		
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T[81%]	At Completion of Drilling	core wash 7ft		
Driller	RR&AG	Logger	D. You	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	NA		



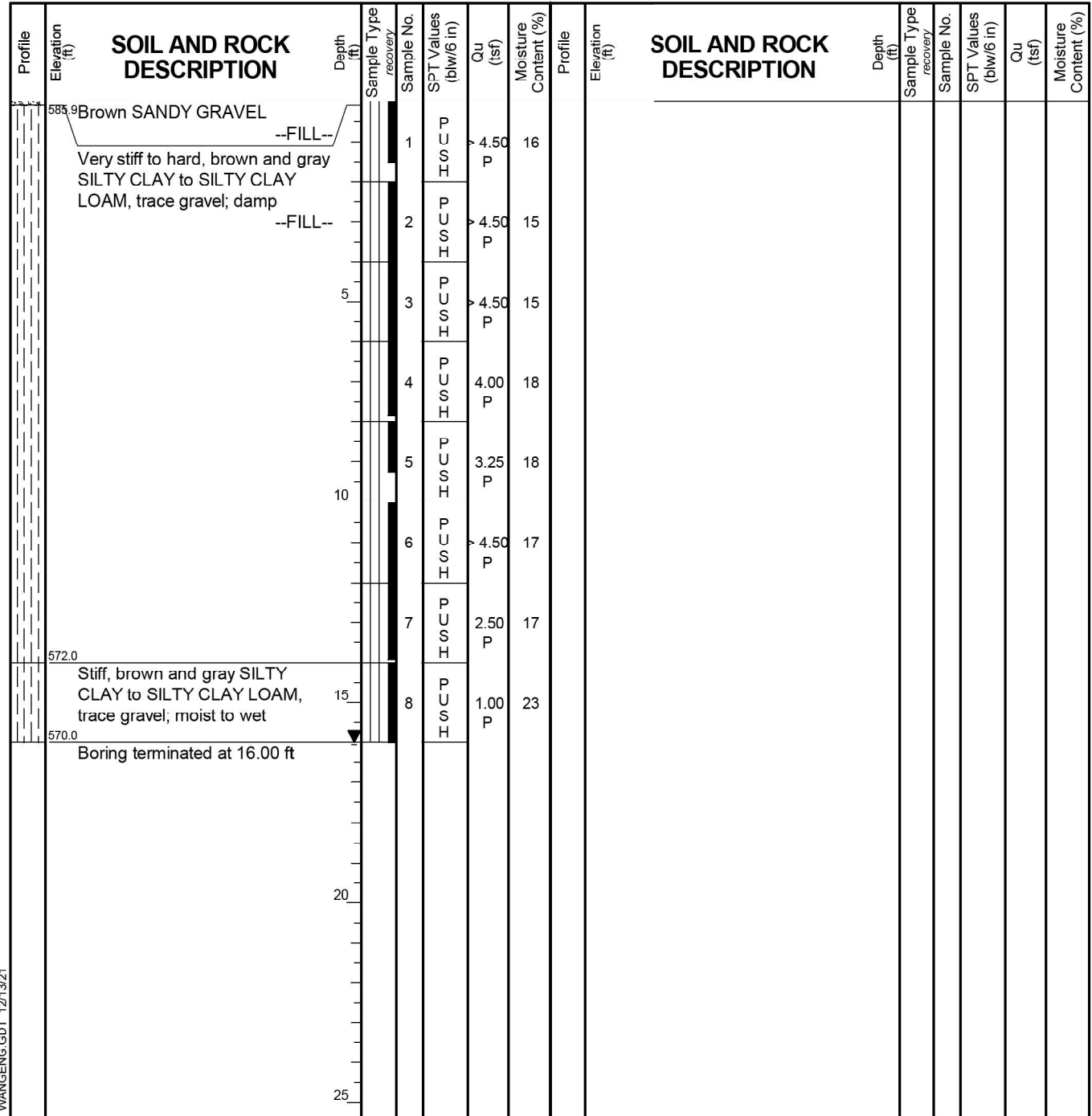
BORING LOG RIV-RWB-07HA

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD88
Elevation: 586.01 ft
North: 1755051.25 ft
East: 1016287.66 ft
Station: 28+67.8
Offset: 24.8 LT



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-30-2021	Complete Drilling	11-30-2021	While Drilling	16.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	16.00 ft		
Driller	RH&AG	Logger	M. Rojo	Time After Drilling	NA		
Drilling Method	1" ID HSA; boring backfilled upon completion			Depth to Water	NA		

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WANGENGINC 2553901.GPJ WANGENG.GDT 12/13/21



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 2 OF 5)
STRUCTURE NO. 099-W806

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	94
CONTRACT NO. 62P67				

SHEET S3-13 OF 53-16 SHEETS

ILLINOIS FED. AID PROJECT



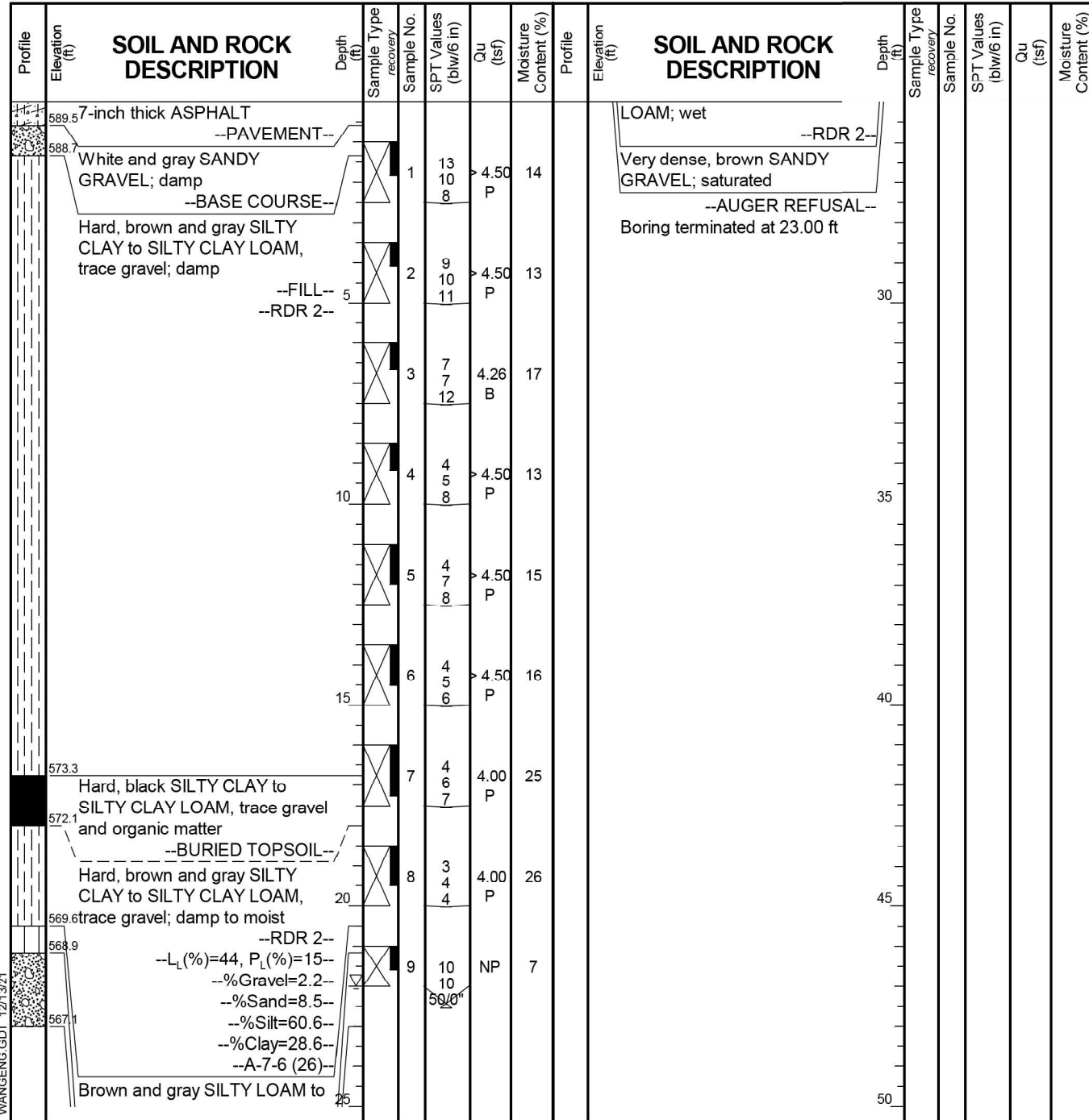
BORING LOG RIV-RWB-08

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD88
Elevation: 590.05 ft
North: 1754964.53 ft
East: 1016273.57 ft
Station: 29+54.4
Offset: 7.3 LT



GENERAL NOTES

Begin Drilling: 11-17-2021 Complete Drilling: 11-17-2021
 Drilling Contractor: Wang Testing Services Drill Rig: 20D50T [80%]
 Driller: RH&JD Logger: M. Rojo Checked by: C. Marin
 Drilling Method: 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 22.00 ft
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



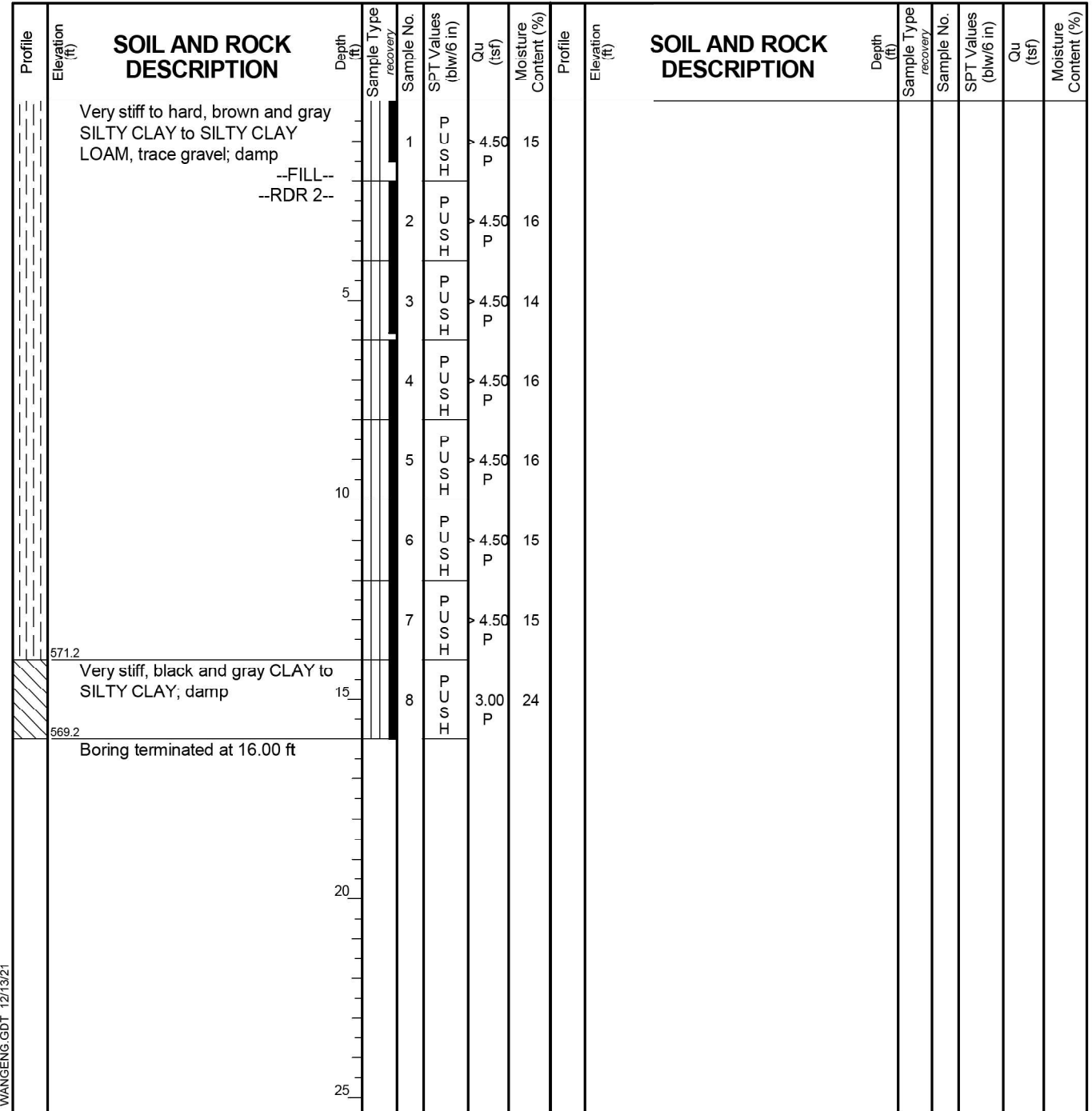
BORING LOG RIV-RWB-08HA

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NGVD
Elevation: 585.18 ft
North: 1754962.78 ft
East: 1016288.59 ft
Station: 29+56.9
Offset: 22.2 LT



GENERAL NOTES

Begin Drilling: 11-29-2021 Complete Drilling: 11-29-2021
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: RH&AG Logger: M. Rojo Checked by: C. Marin
 Drilling Method: 1" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WANGENGINC_2553901.GPJ WANGENG.GDT 12/13/21



USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MAI, JJS	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 3 OF 5)
STRUCTURE NO. 099-W806

SHEET S3-14 OF S3-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	95
CONTRACT NO. 62P67				

ILLINOIS FED. AID PROJECT



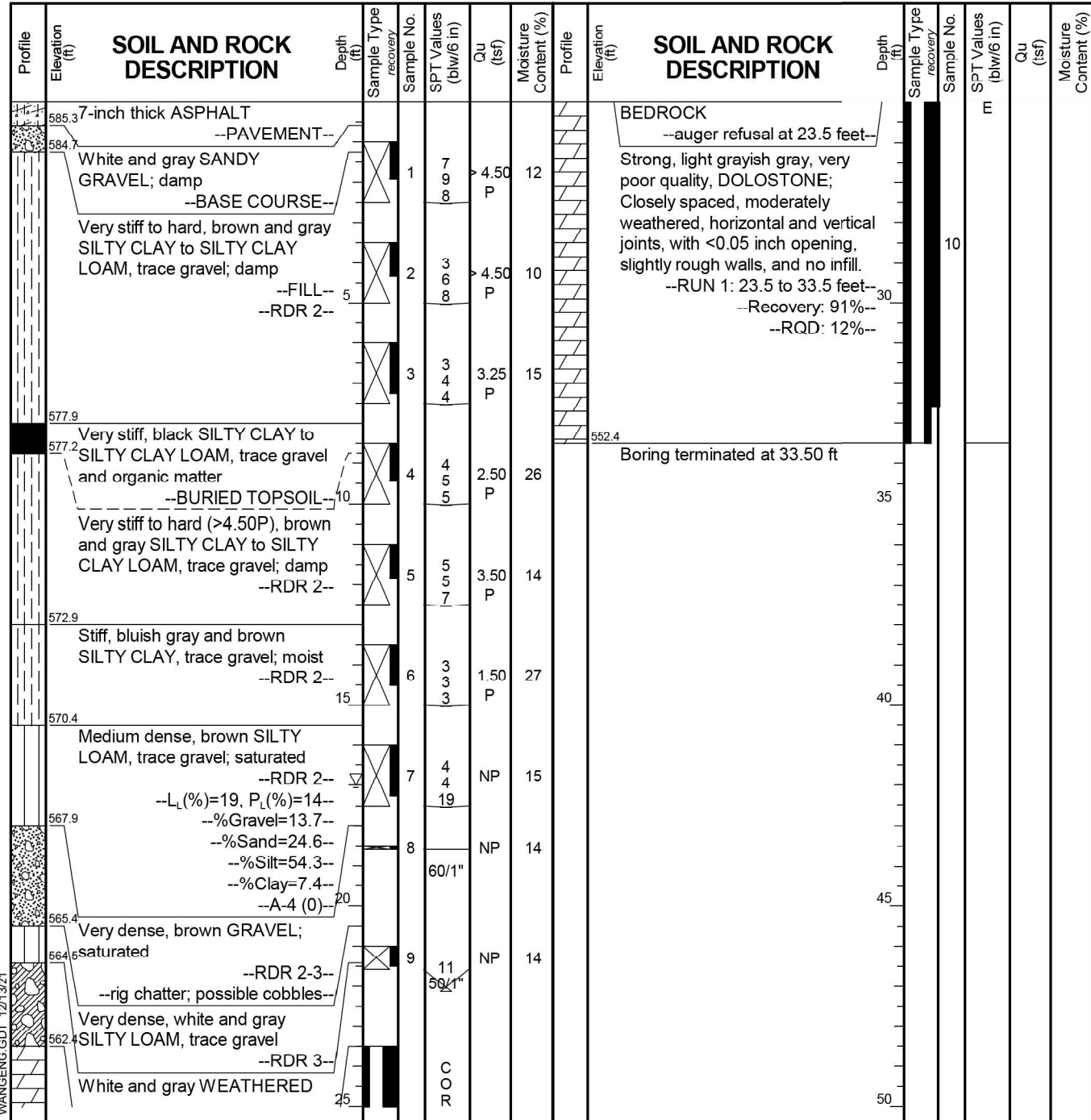
BORING LOG RIV-RWB-09

wangeng@wangeng.com
1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 585.93 ft
North: 1754864.40 ft
East: 1016280.92 ft
Station: 30+54.9
Offset: 8.8 LT



GENERAL NOTES

Begin Drilling: 11-23-2021 Complete Drilling: 11-23-2021
 Drilling Contractor: Wang Testing Services Drill Rig: 20CME55T[81%]
 Driller: RH&AG Logger: M. Rojo Checked by: C. Marin
 Drilling Method: 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 17.00 ft
 At Completion of Drilling: core wash 13ft
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



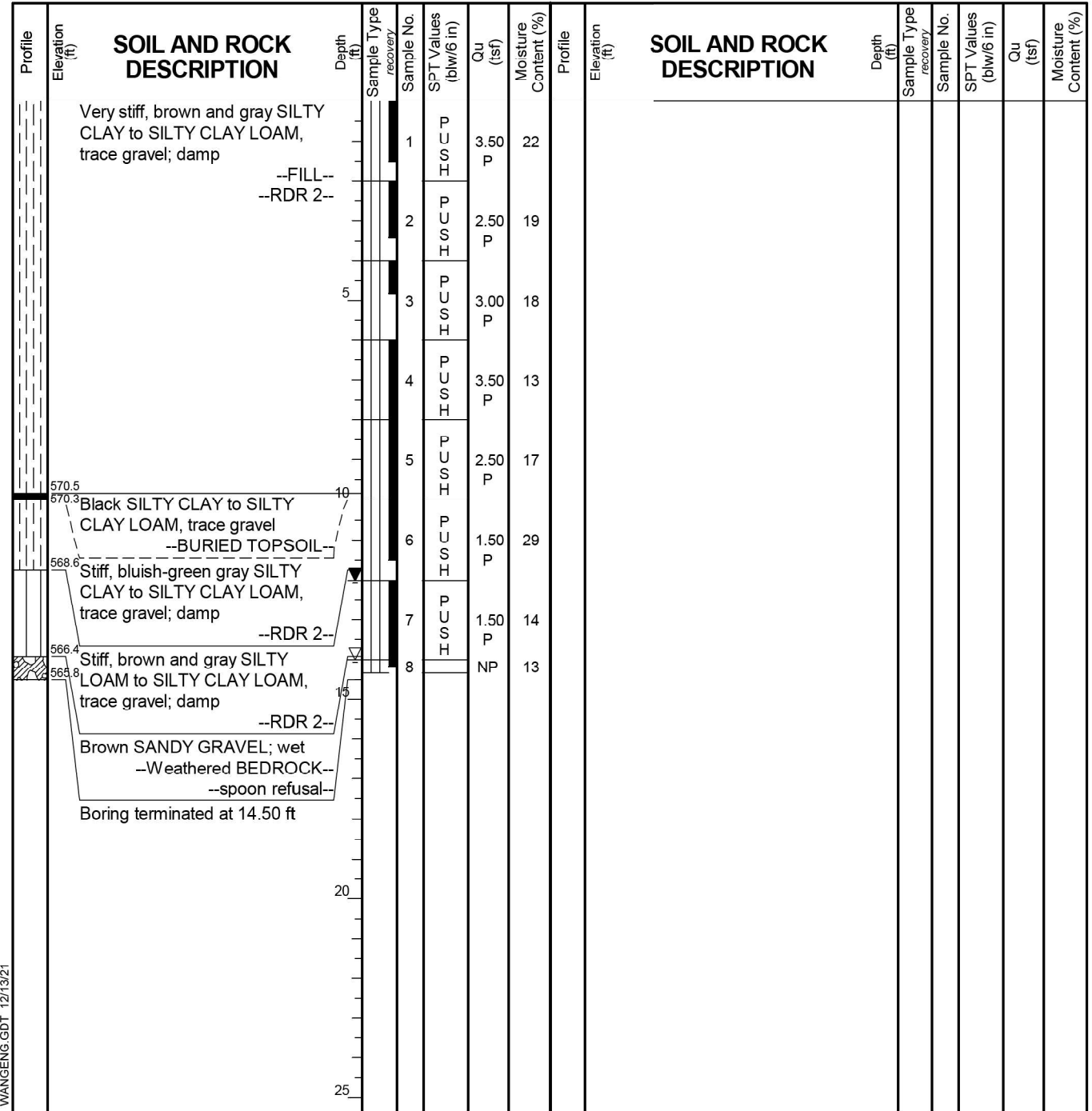
BORING LOG RIV-RWB-09HA

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1145 N MAIn Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD88
Elevation: 580.31 ft
North: 1754868.40 ft
East: 1016296.74 ft
Station: 30+52.0
Offset: 24.9 LT



GENERAL NOTES

Begin Drilling: 11-29-2021 Complete Drilling: 11-29-2021
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: RH&AG Logger: M. Rojo Checked by: C. Marin
 Drilling Method: 1" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 14.00 ft
 At Completion of Drilling: 12.00 ft
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
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WANGENGINC_2553901.GPJ WANGENG.GDT 12/13/21
WANGENGINC_2553901.GPJ WANGENG.GDT 12/13/21



USER NAME =	DESIGNED - MAA, SK	REVISD -
PLOT SCALE =	CHECKED - MAI, JJS	REVISD -
PLOT DATE =	DRAWN - JMI	REVISD -
	CHECKED - MAI, JJS	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 4 OF 5)
STRUCTURE NO. 099-W806

SHEET S3-15 OF S3-16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	96
CONTRACT NO. 62P67				
ILLINOIS		FED. AID PROJECT		



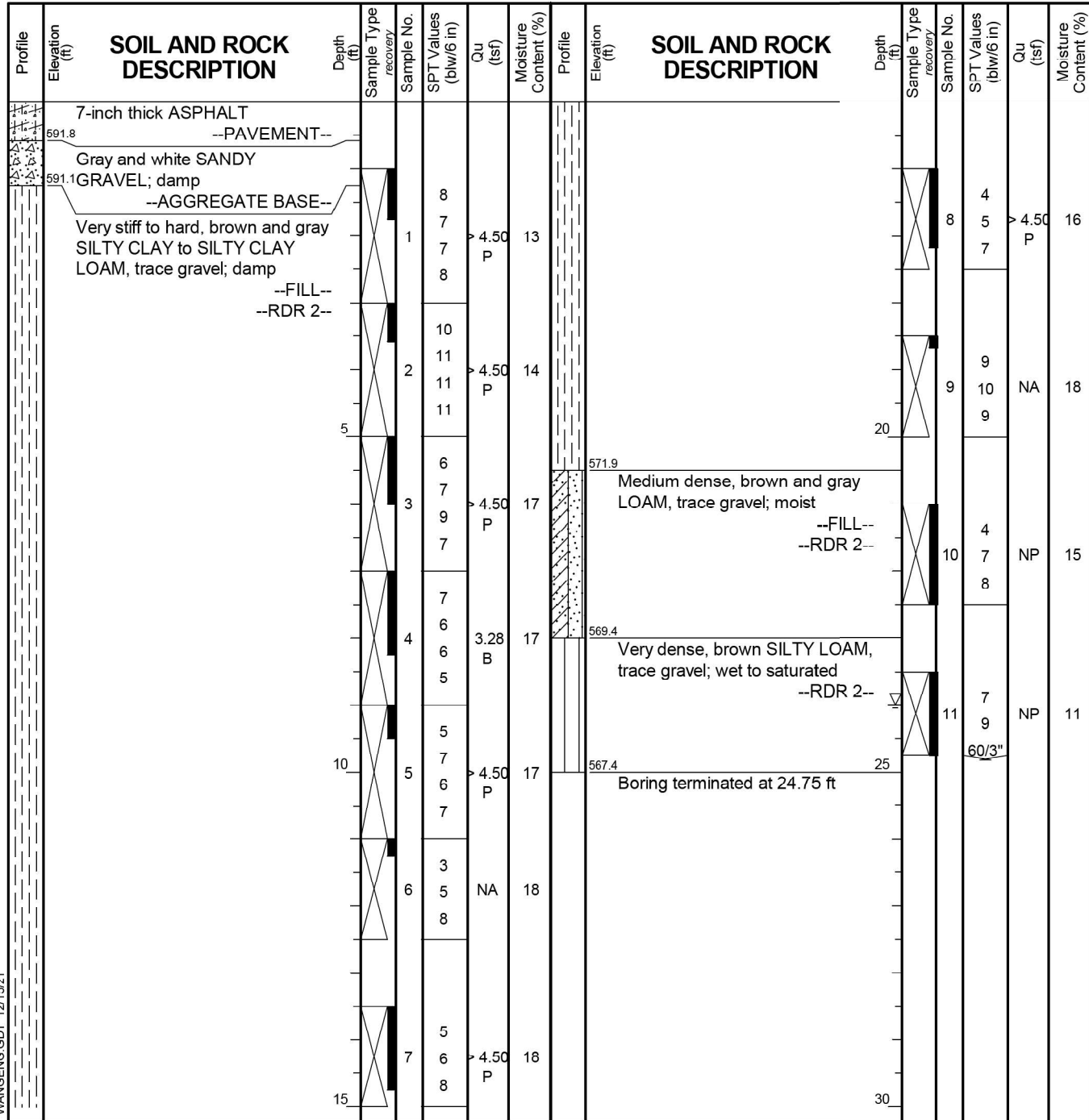
BORING LOG RIV-SGB-03

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 592.36 ft
North: 1755053.60 ft
East: 1016257.18 ft
Station: 28+64.8
Offset: 5.4 RT



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-22-2021	Complete Drilling	11-22-2021	While Drilling	▽	24.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T[81%]	At Completion of Drilling	▽	DRY	
Driller	RR&AG	Logger	M. Rojo	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	2.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							



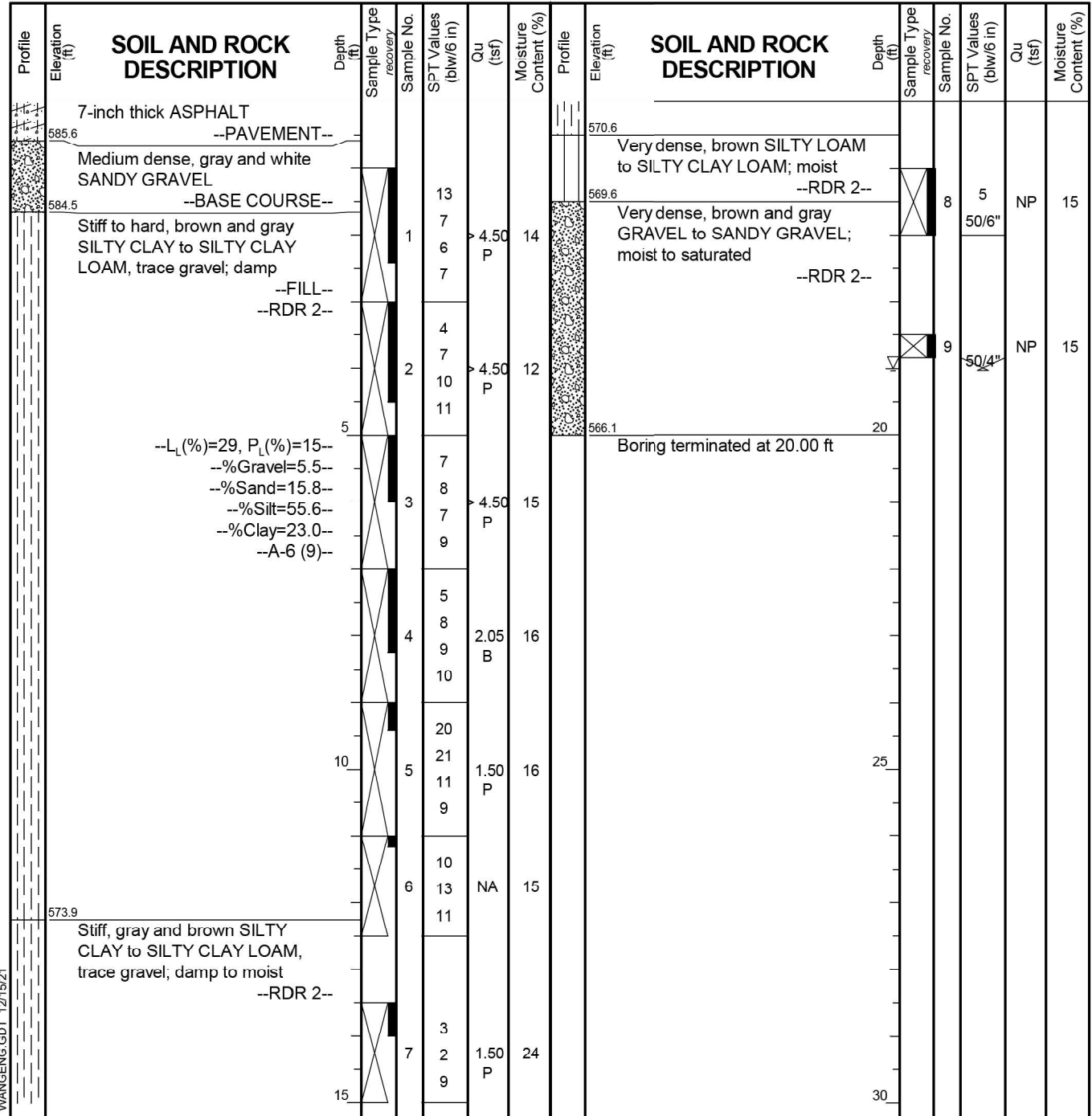
BORING LOG RIV-SGB-04

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax: (630) 953-9938

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 586.14 ft
North: 1754867.01 ft
East: 1016264.92 ft
Station: 30+51.3
Offset: 7.2 RT



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-23-2021	Complete Drilling	11-23-2021	While Drilling	▽	19.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20CME55T[81%]	At Completion of Drilling	▽	DRY	
Driller	RR&AG	Logger	M. Rojo	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	2.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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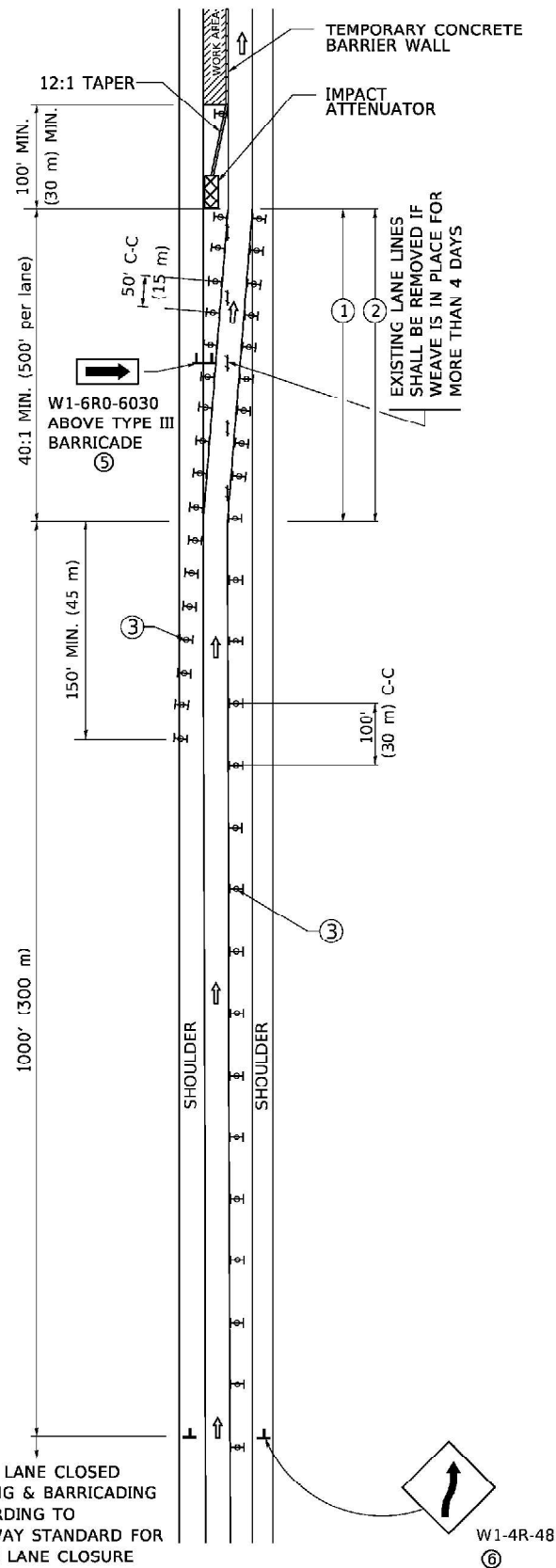
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PLOT SCALE =	CHECKED - MAL, JJS	REVISD -
PLOT DATE =	DRAWN - JMI	REVISD -
	CHECKED - MAL, JJS	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

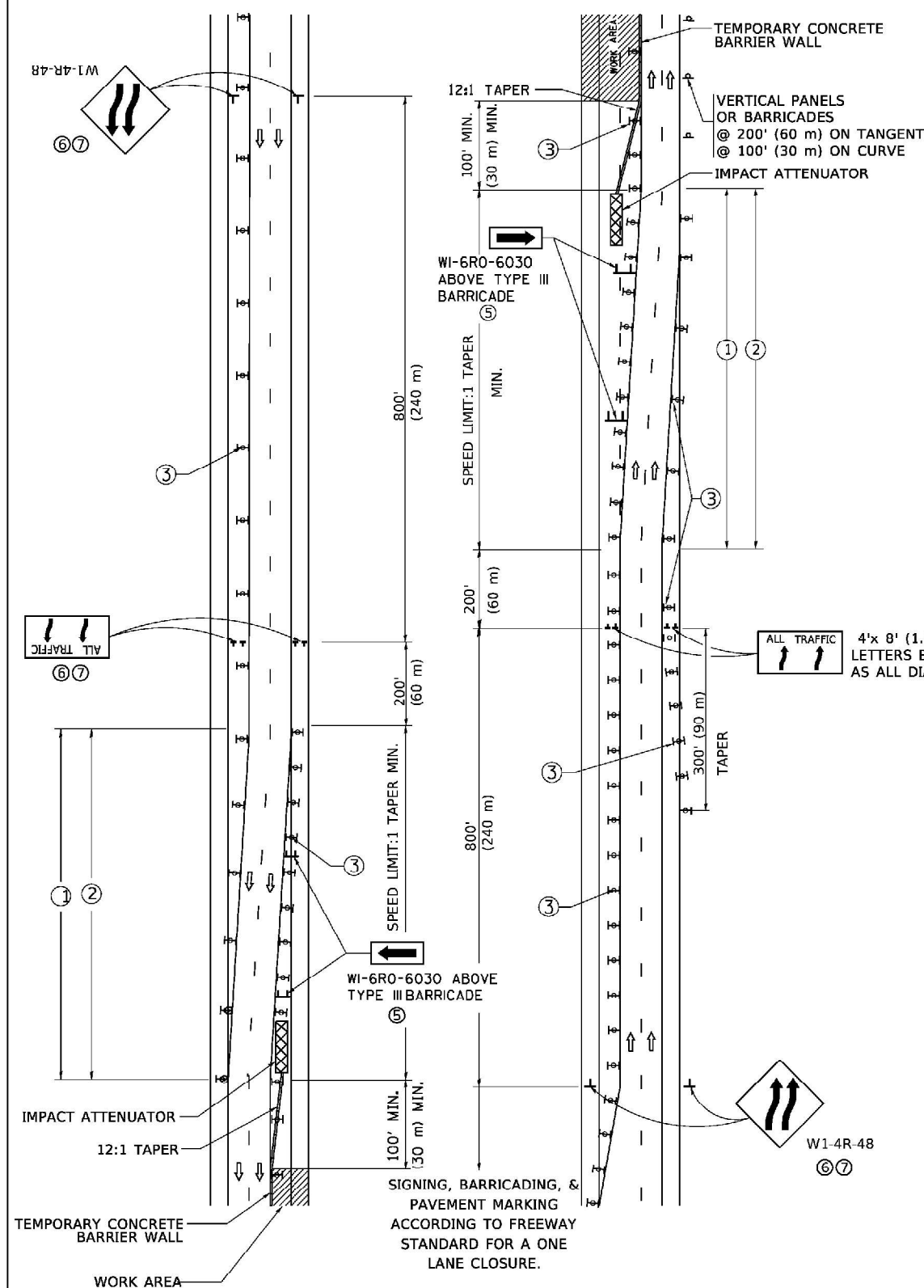
BORING LOGS (SHEET 5 OF 5)
STRUCTURE NO. 099-W806

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2021-151-B	WILL	139	97
CONTRACT NO. 62P67				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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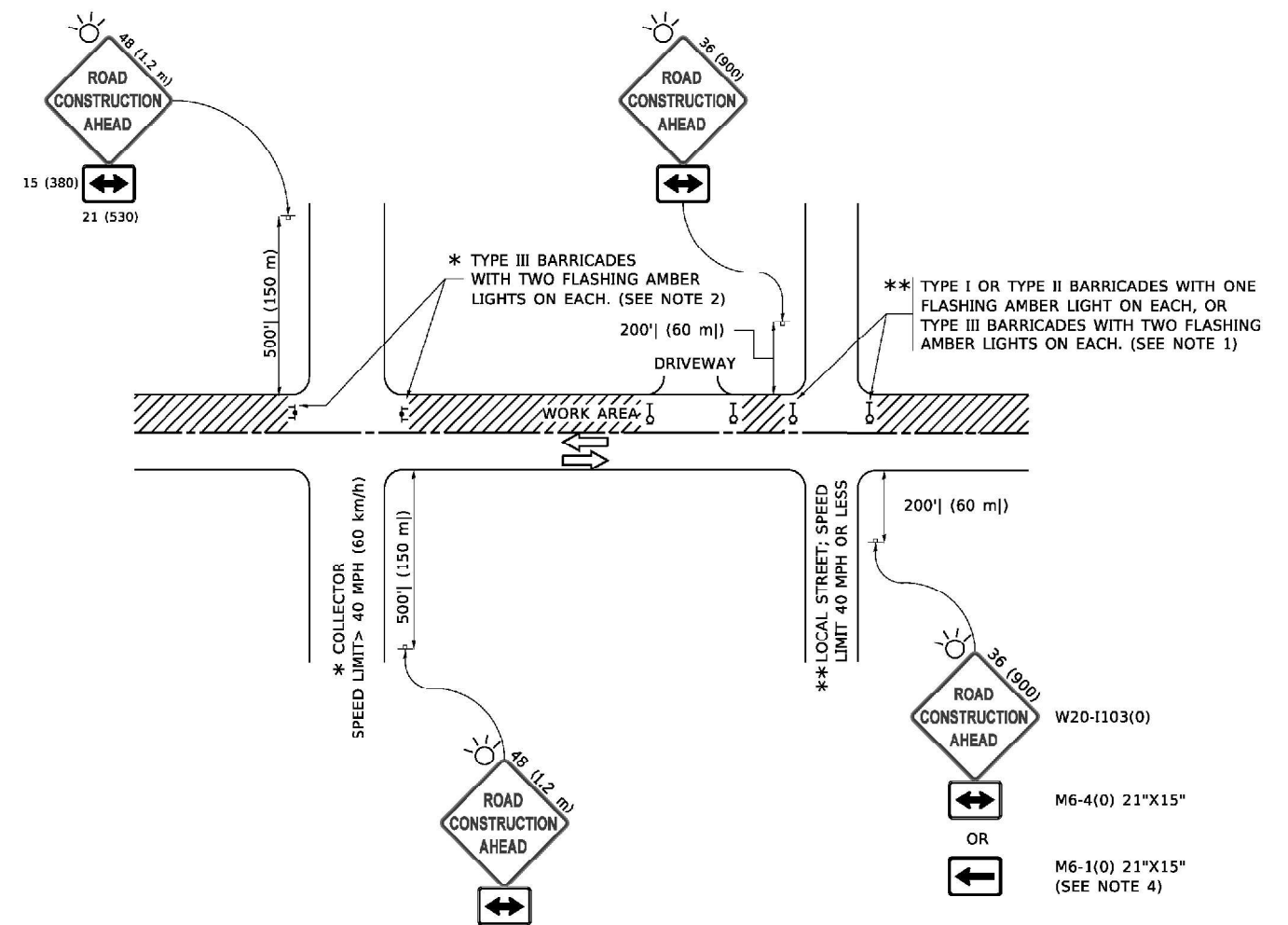
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PLOT DATE = 3/4/2019	CHECKED -	REVISED - S.P.B. 12-09
	DATE - 02-87	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	99
TC-09		CONTRACT NO. 62P67		
ILLINOIS FED. AID PROJECT				



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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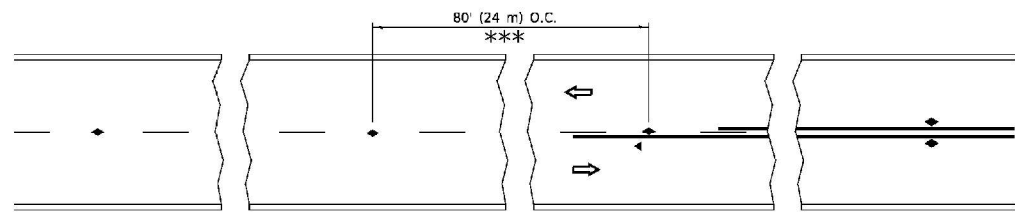
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	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

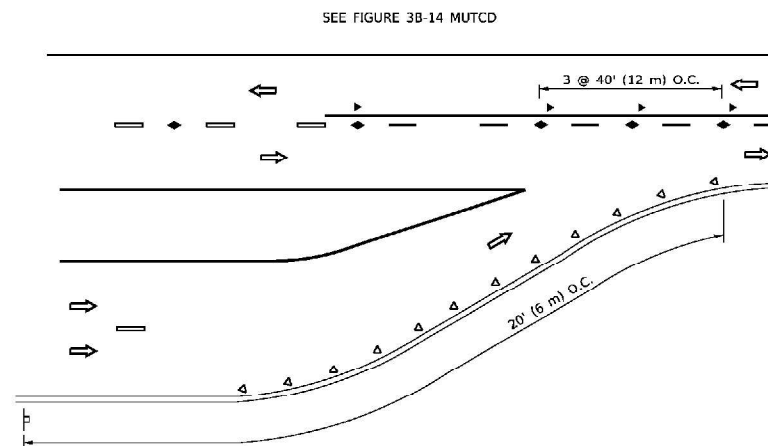
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62P67	
ILLINOIS FED. AID PROJECT				

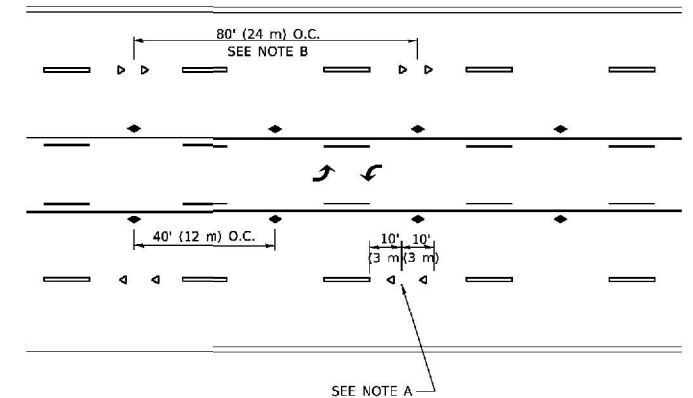


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

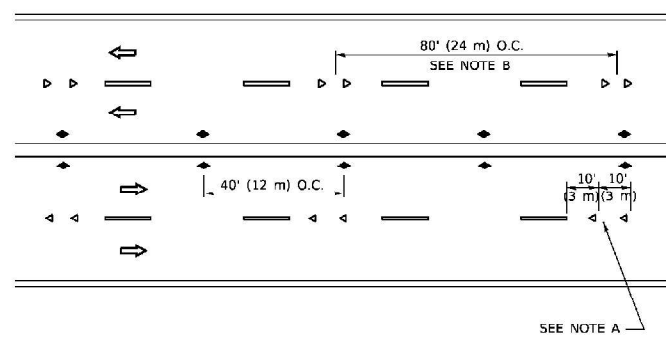
TWO-LANE/TWO-WAY



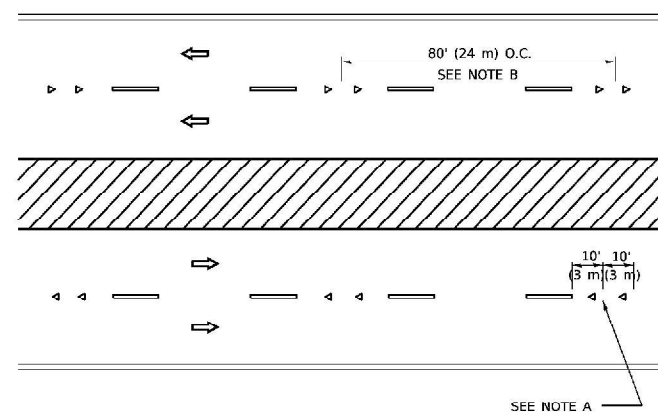
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

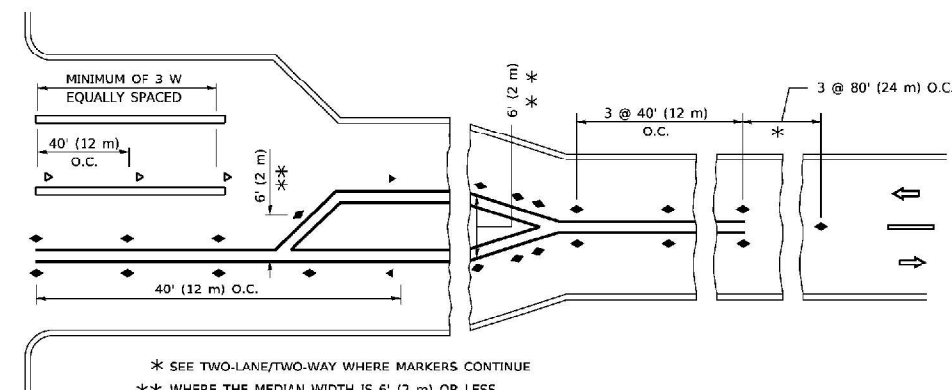
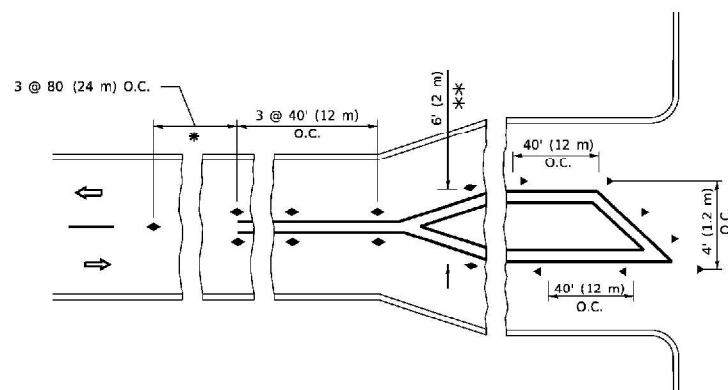
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

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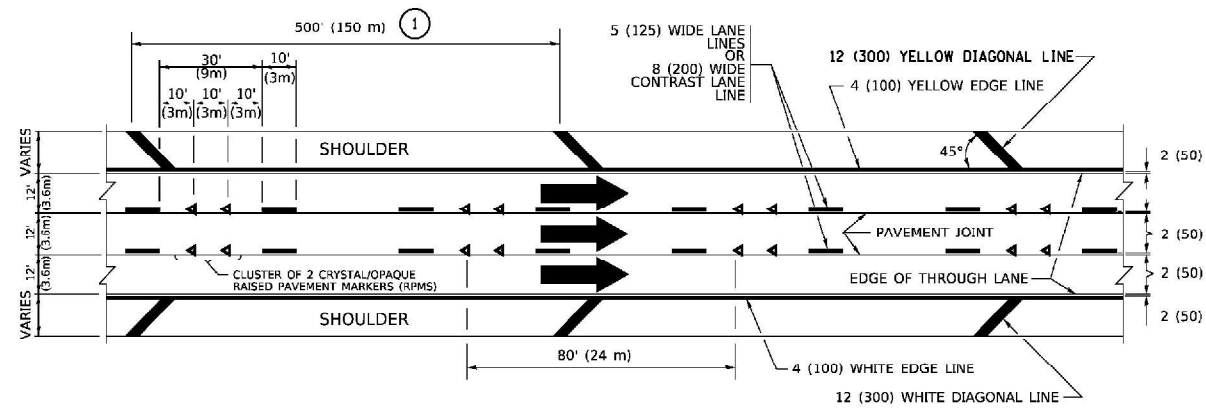
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	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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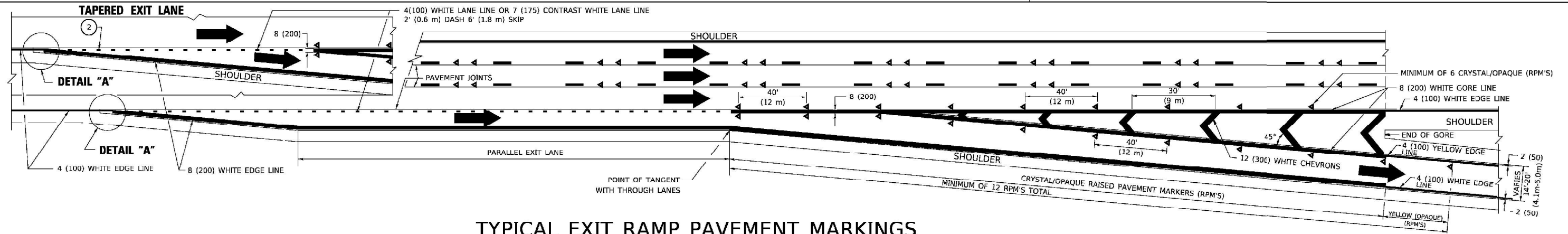
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TC-11		CONTRACT NO. 62P67		
		ILLINOIS FED. AID PROJECT		



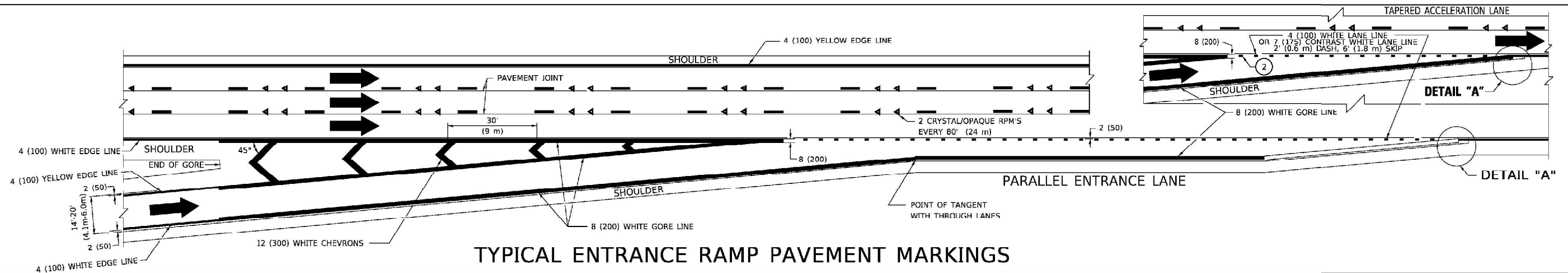
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

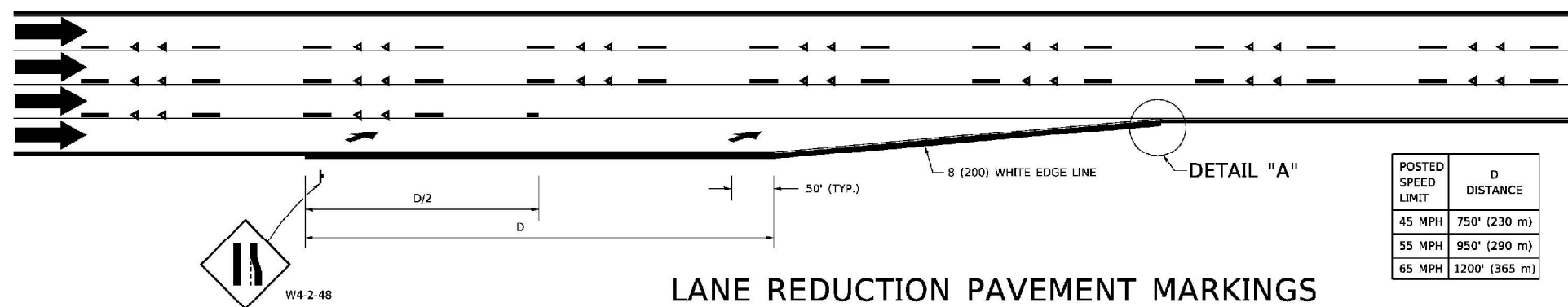
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



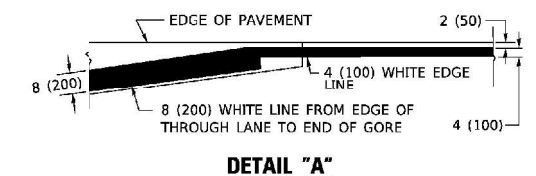
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS



NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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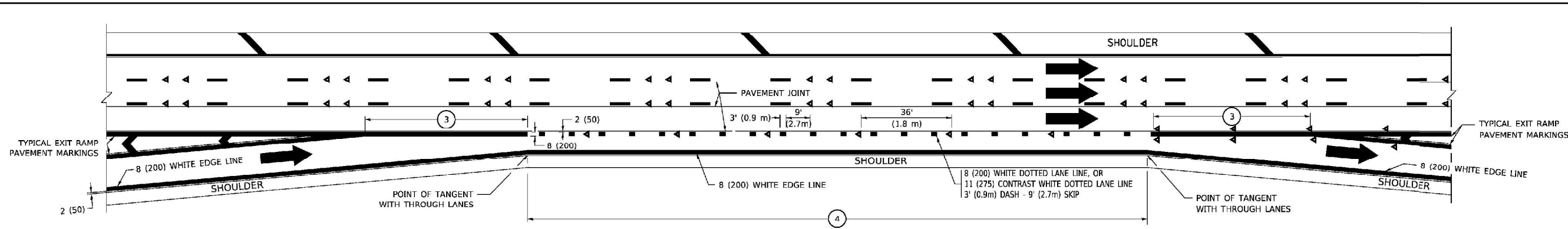
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

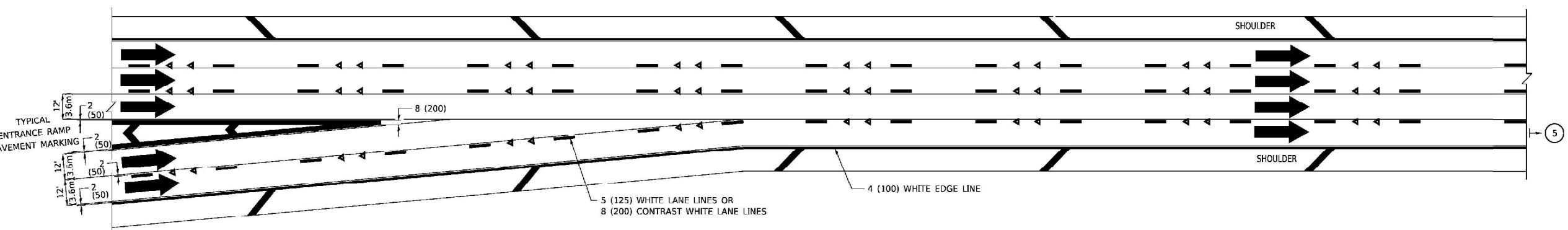
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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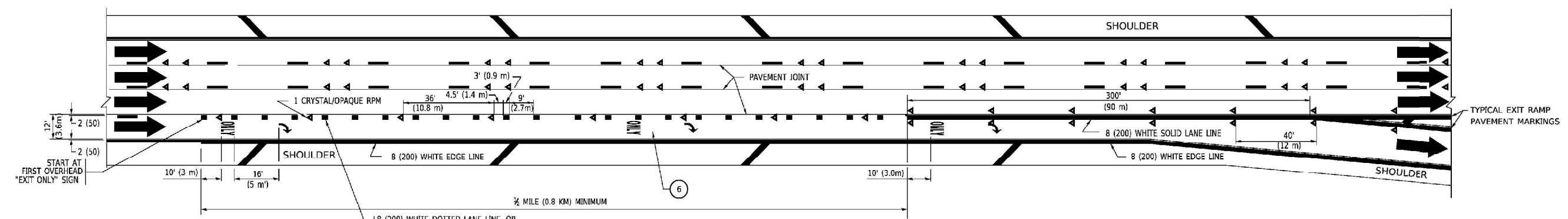
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TC-12		CONTRACT NO. 62P67		
ILLINOIS FED. AID PROJECT				



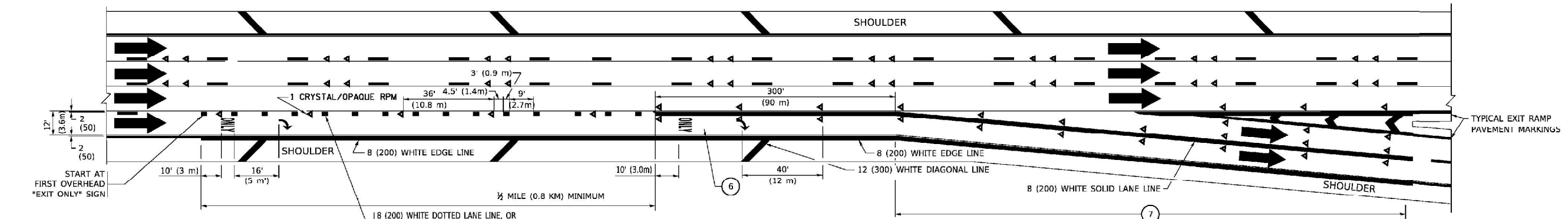
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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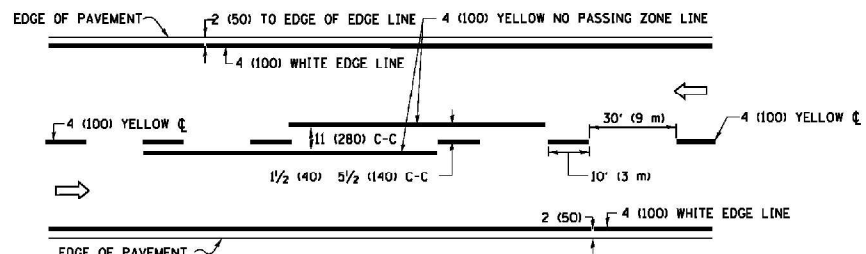
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

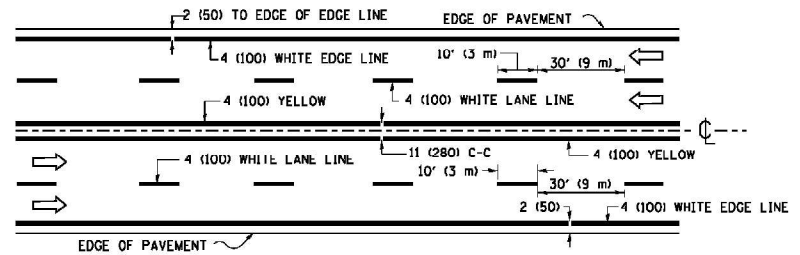
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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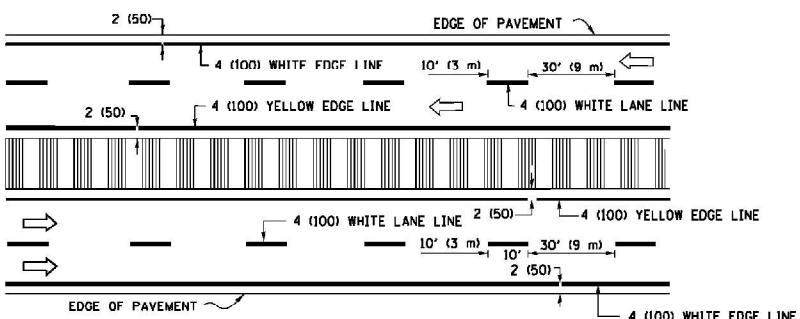
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ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

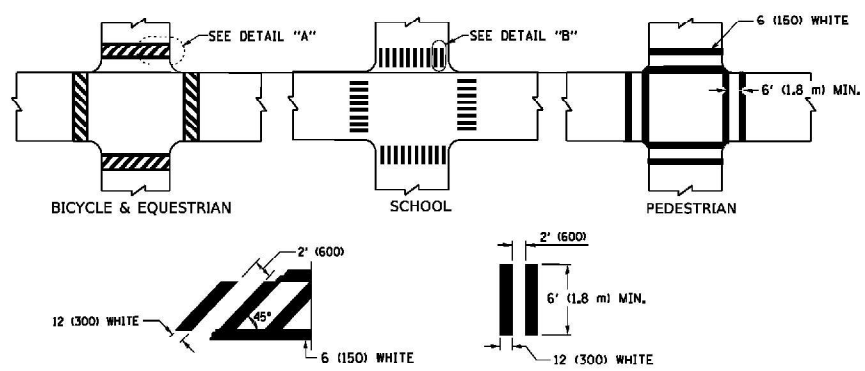


MULTI-LANE UNDIVIDED



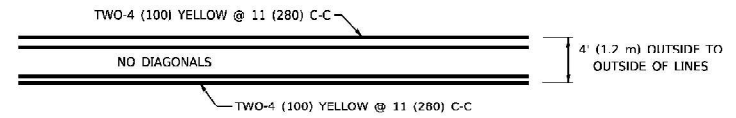
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

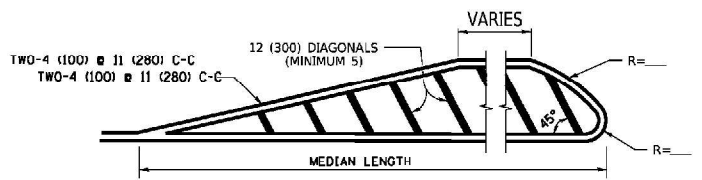


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

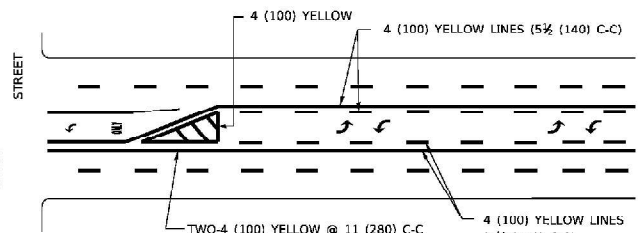


4' (1.2 m) WIDE MEDIANS ONLY



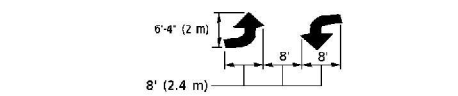
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

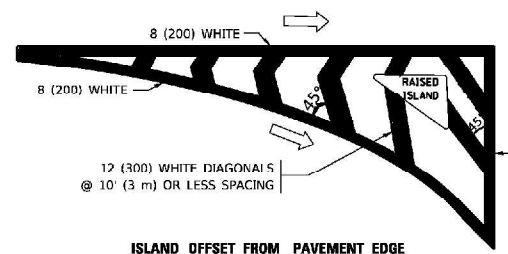
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



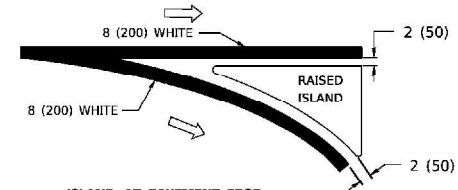
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 6" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

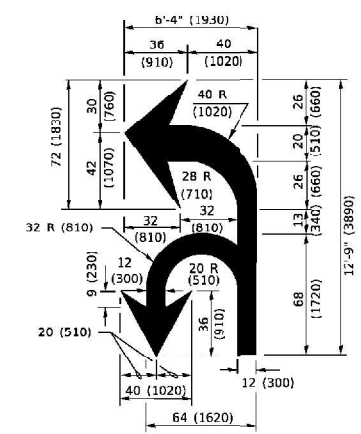


ISLAND OFFSET FROM PAVEMENT EDGE

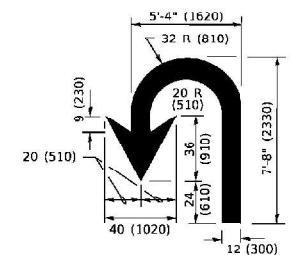


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 1 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 2' (600) APART 2' (600) APART	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORGE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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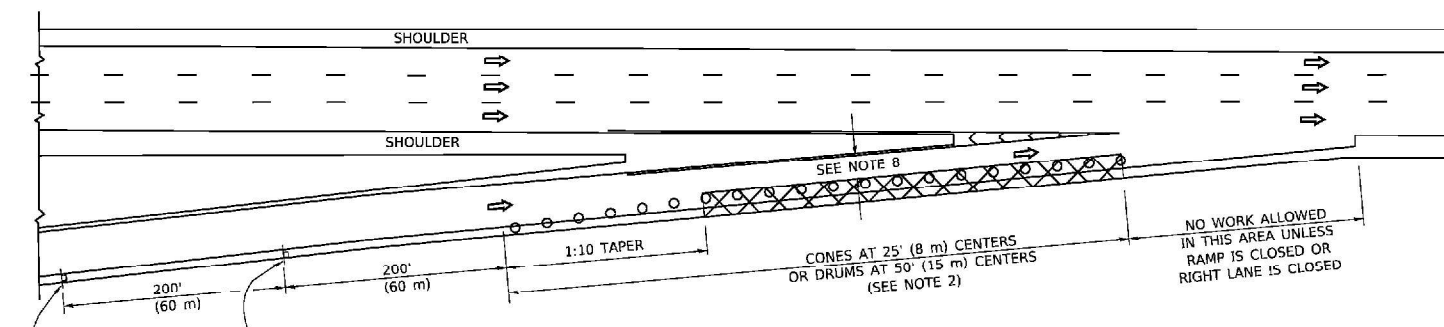
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

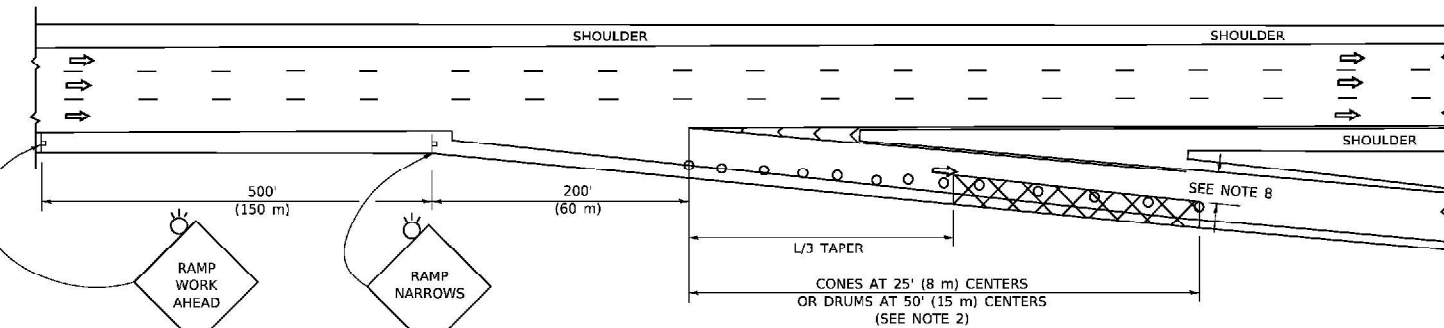
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-13		CONTRACT NO. 62P67		
		ILLINOIS FED. AID PROJECT		

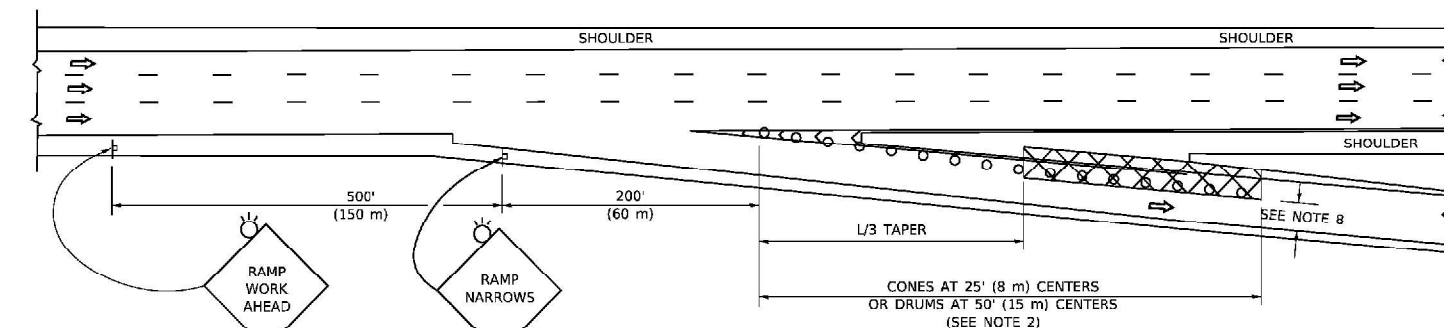
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

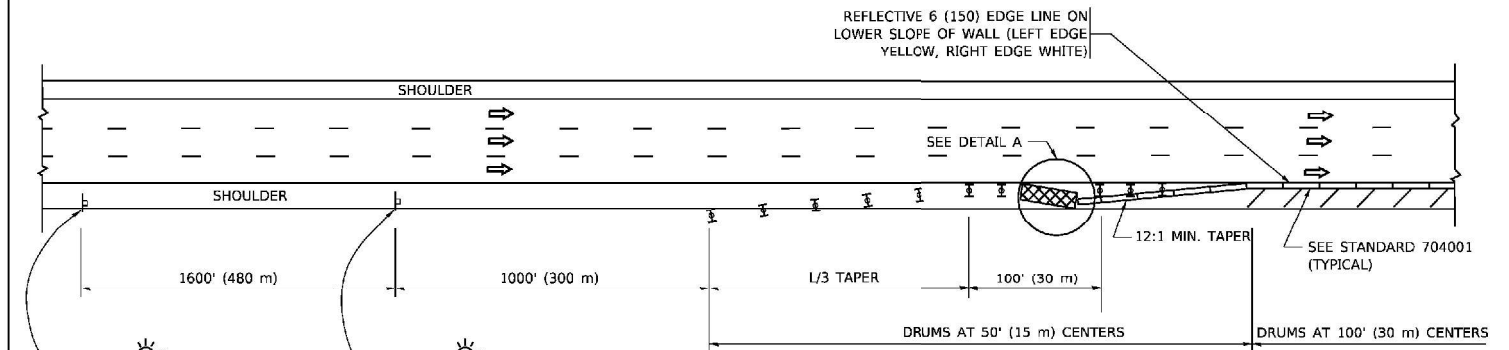
GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

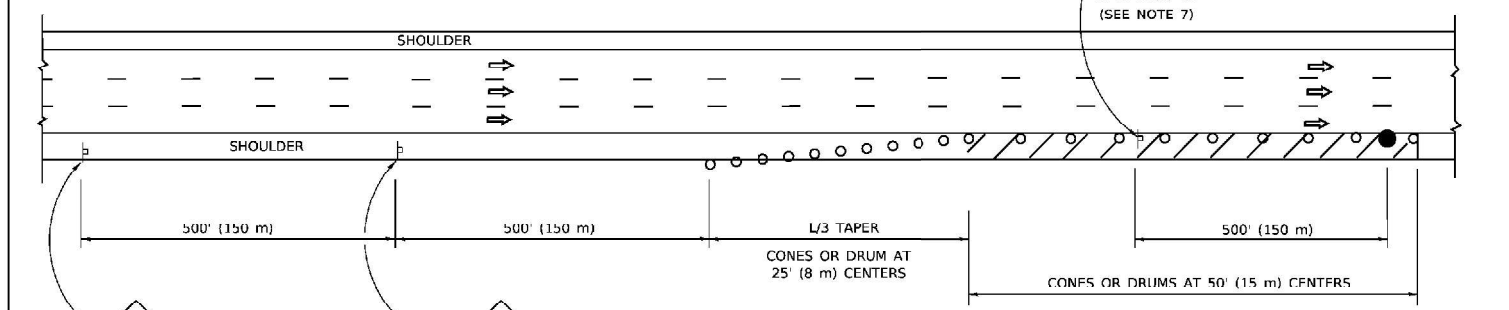
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC: $L = 0.65(WXS)$ ENGLISH: $L = (WXS)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

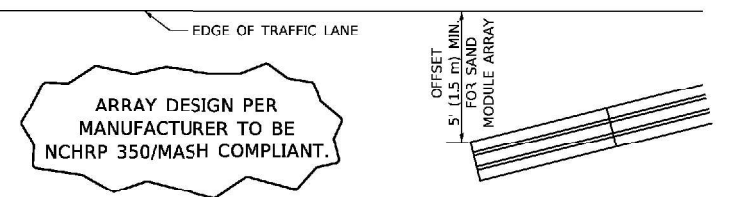


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

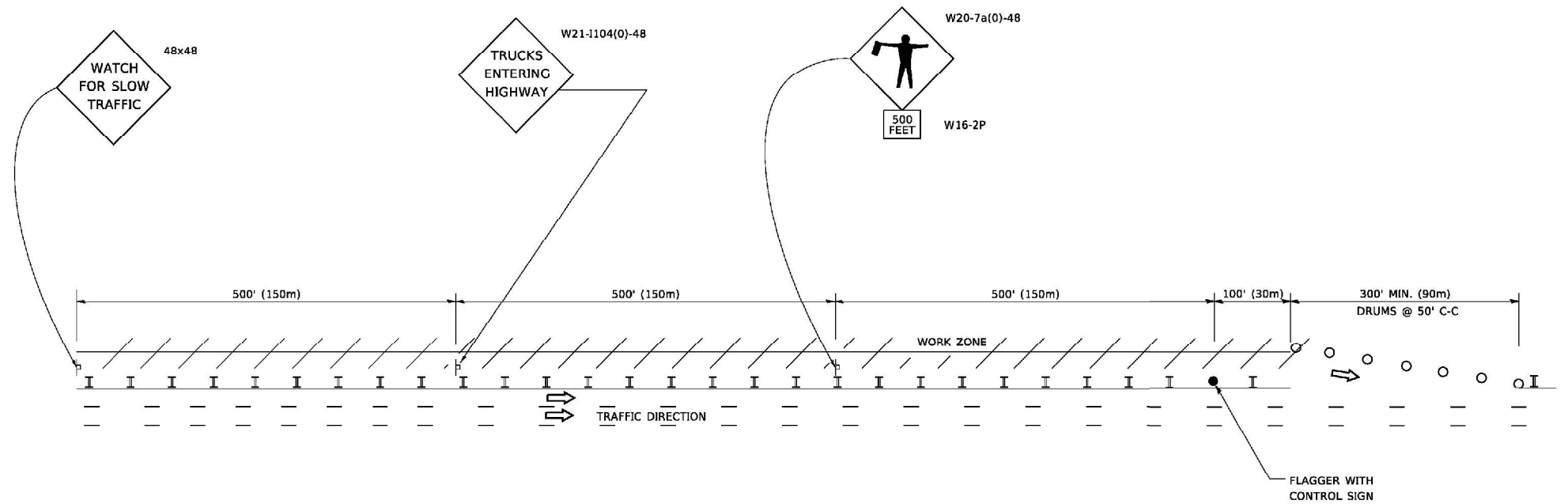
**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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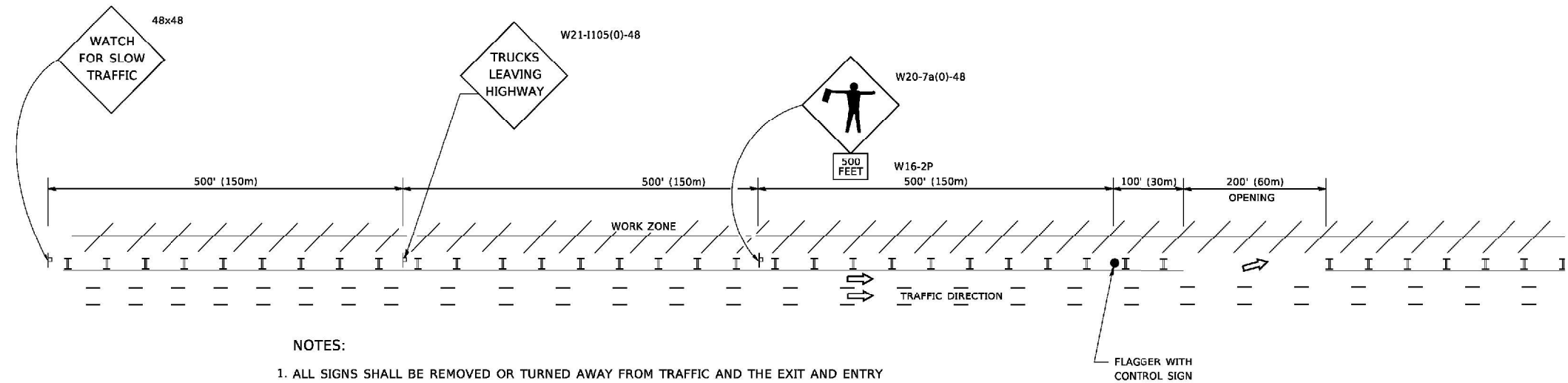
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	105
TC-17		CONTRACT NO. 62P67		
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT DATE	= 3/4/2019

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DATE -	

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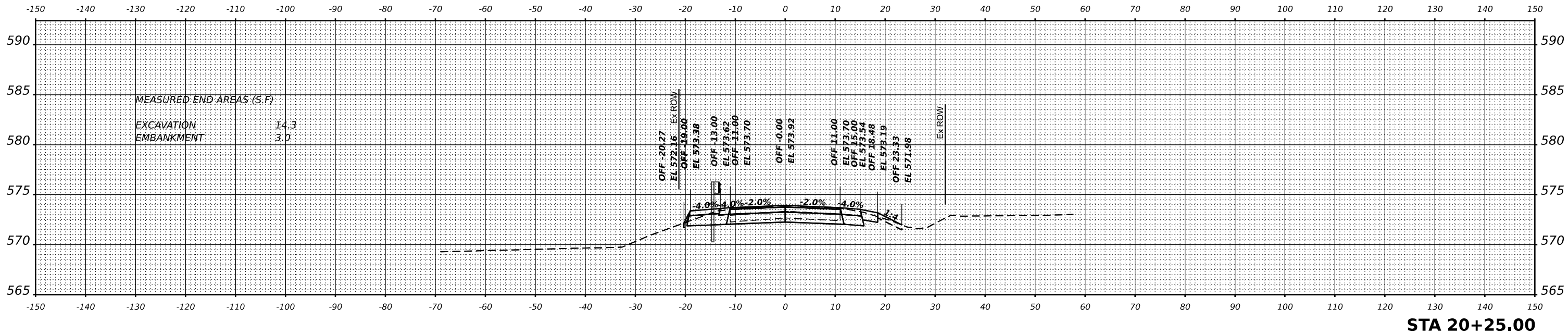
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREeway /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS

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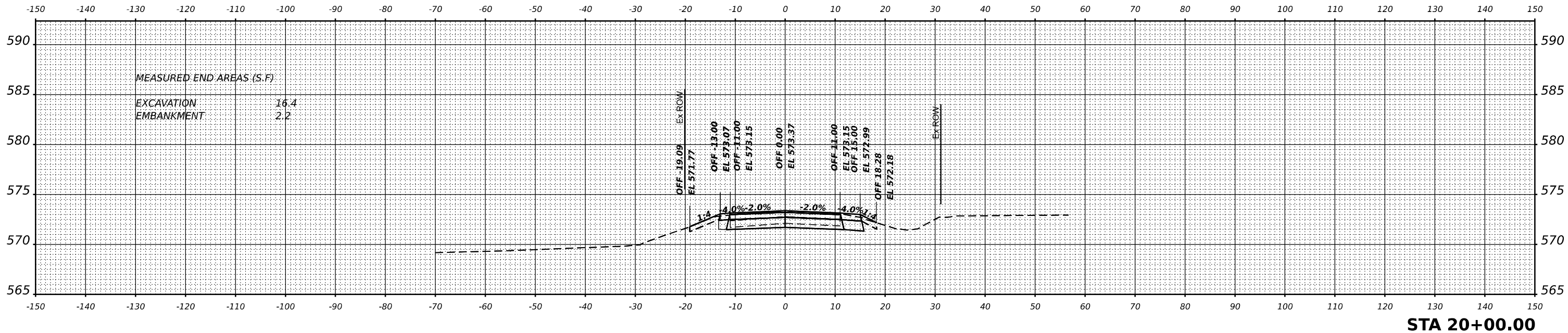
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TC-18			CONTRACT NO. 62P67	
ILLINOIS FED. AID PROJECT				

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



STA 20+25.00

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

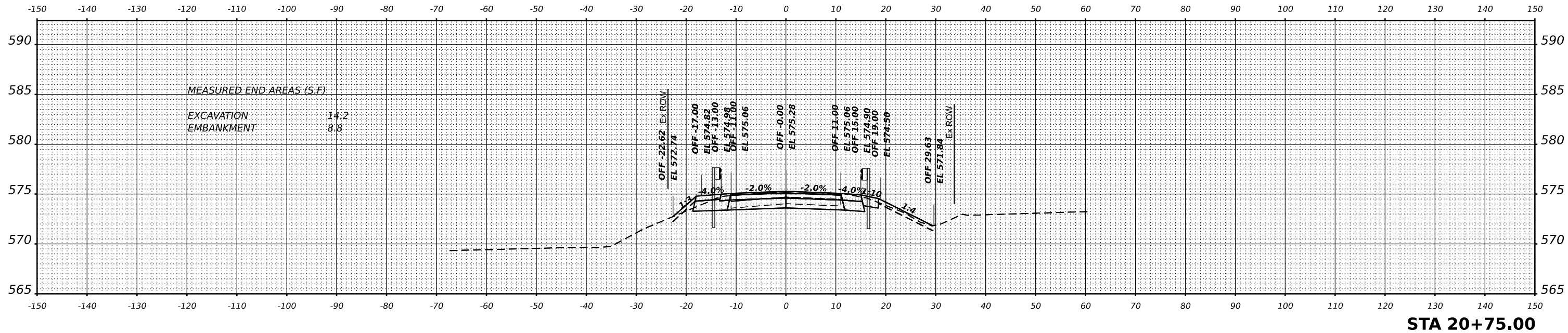
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

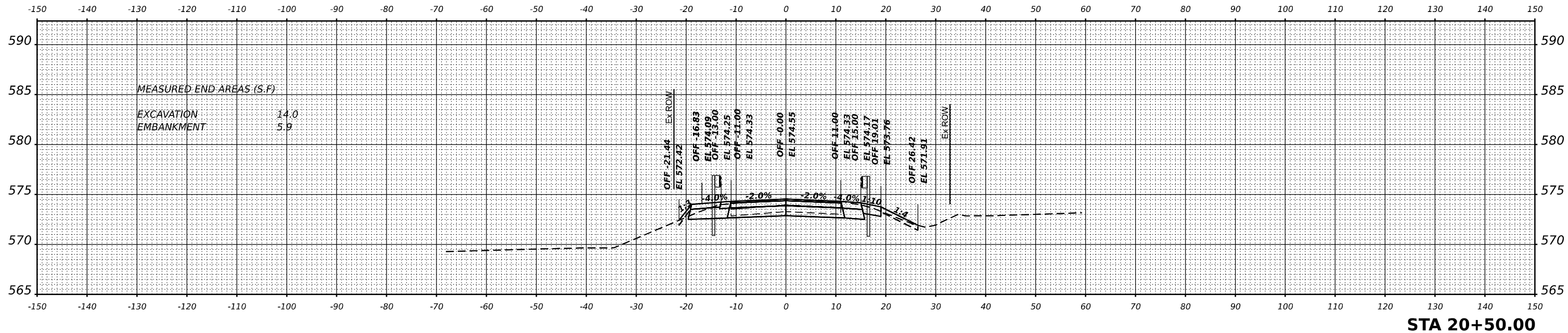
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STA 20+75.00



STA 20+50.00



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

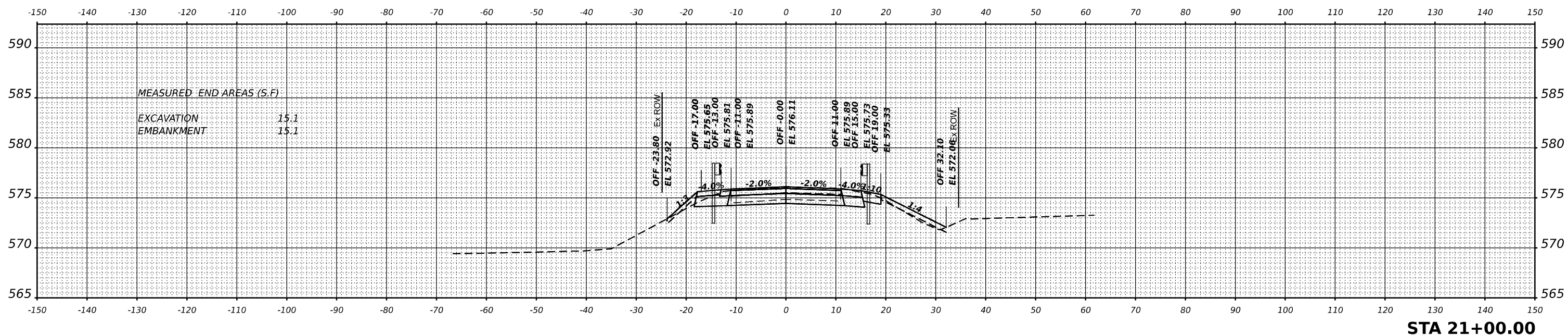
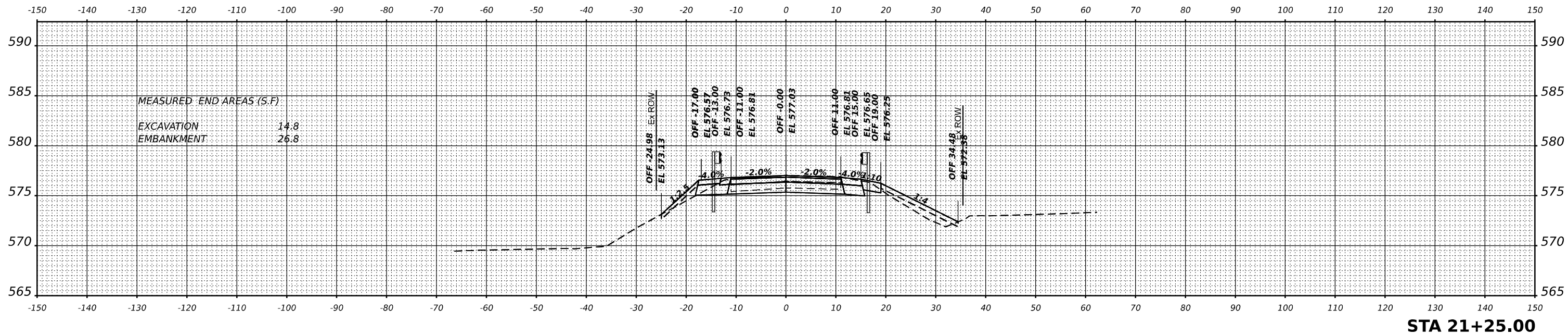
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
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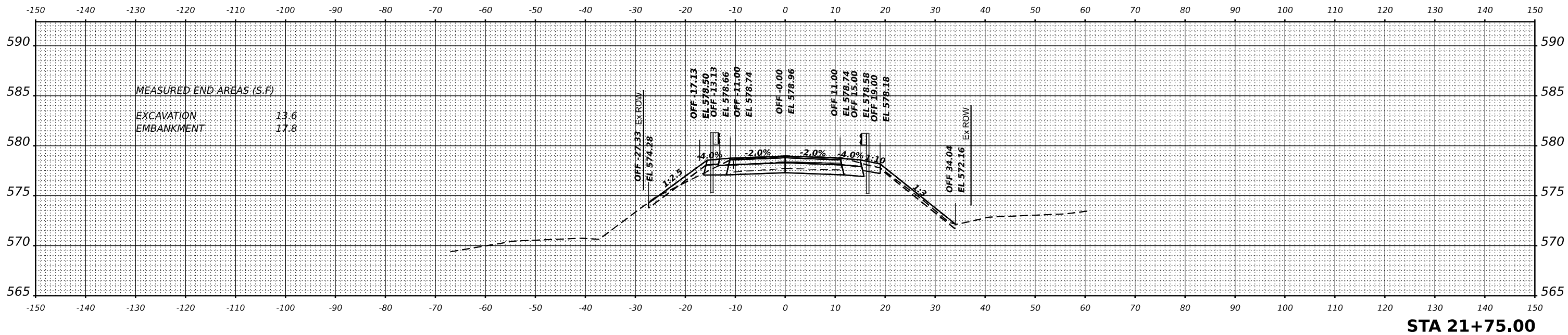
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

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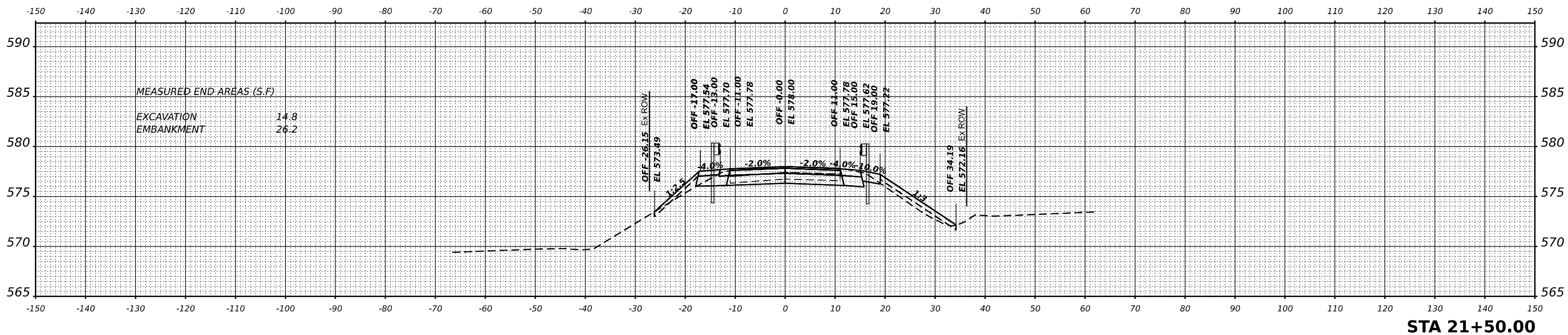
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

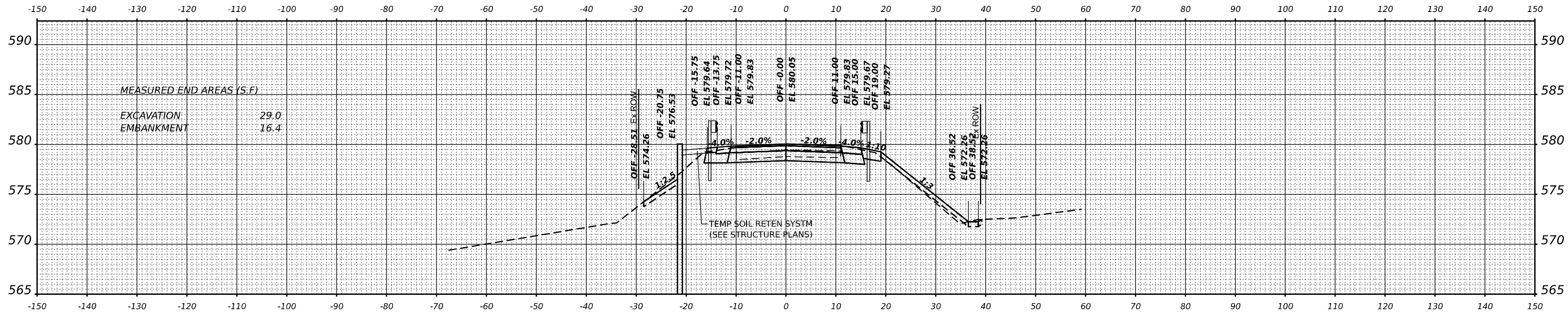
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

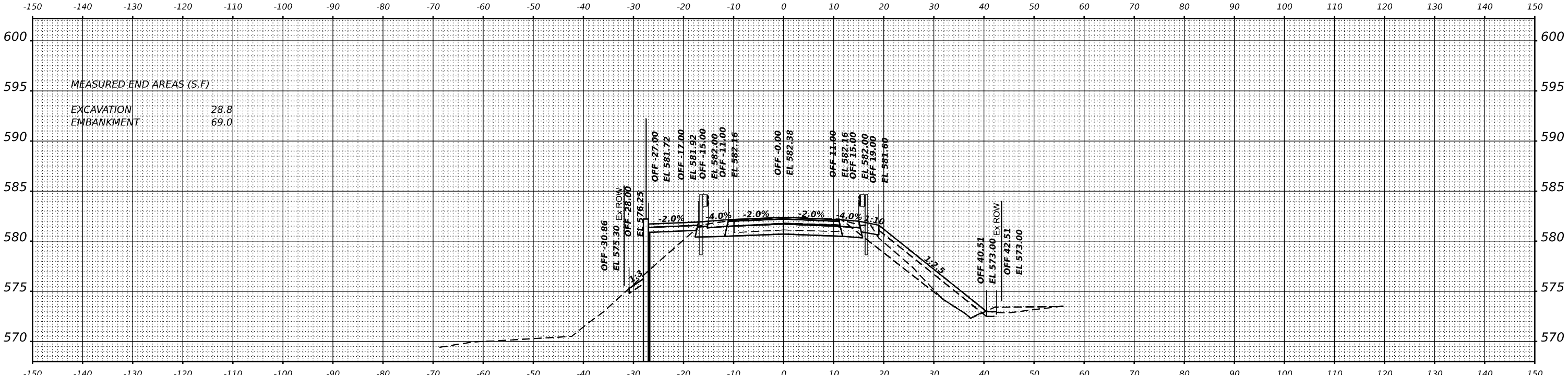
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

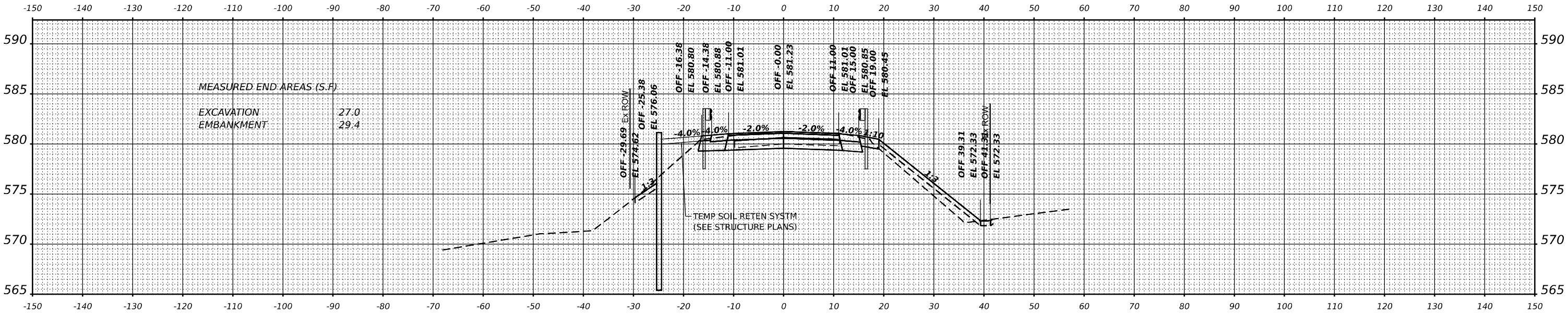
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STA 22+25.00



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PLOT DATE	= 1/26/2023

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

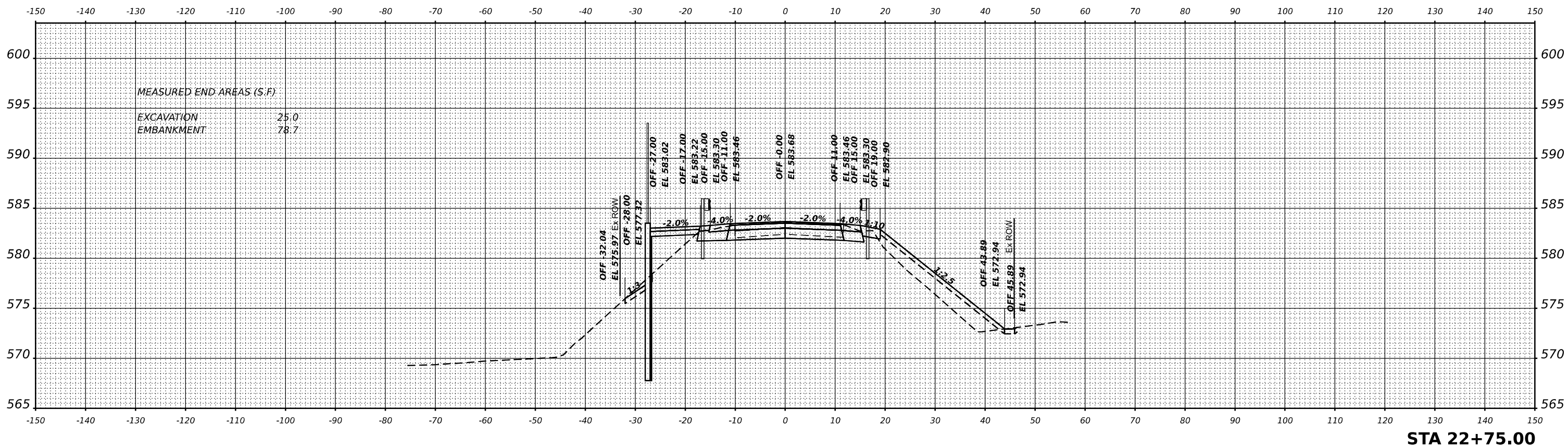
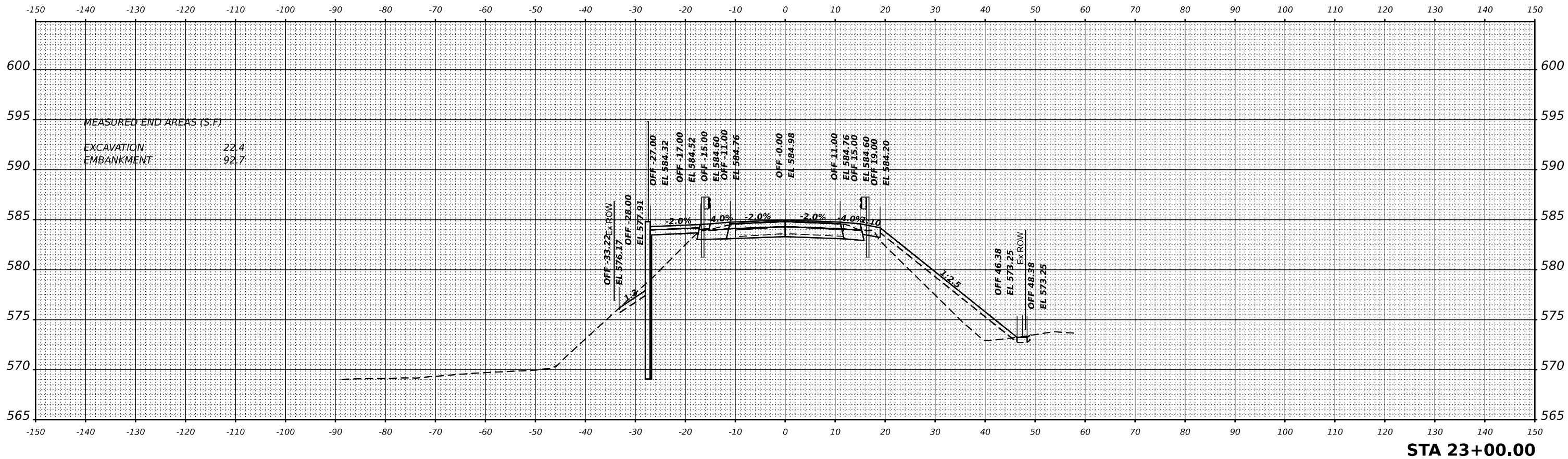
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	113
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

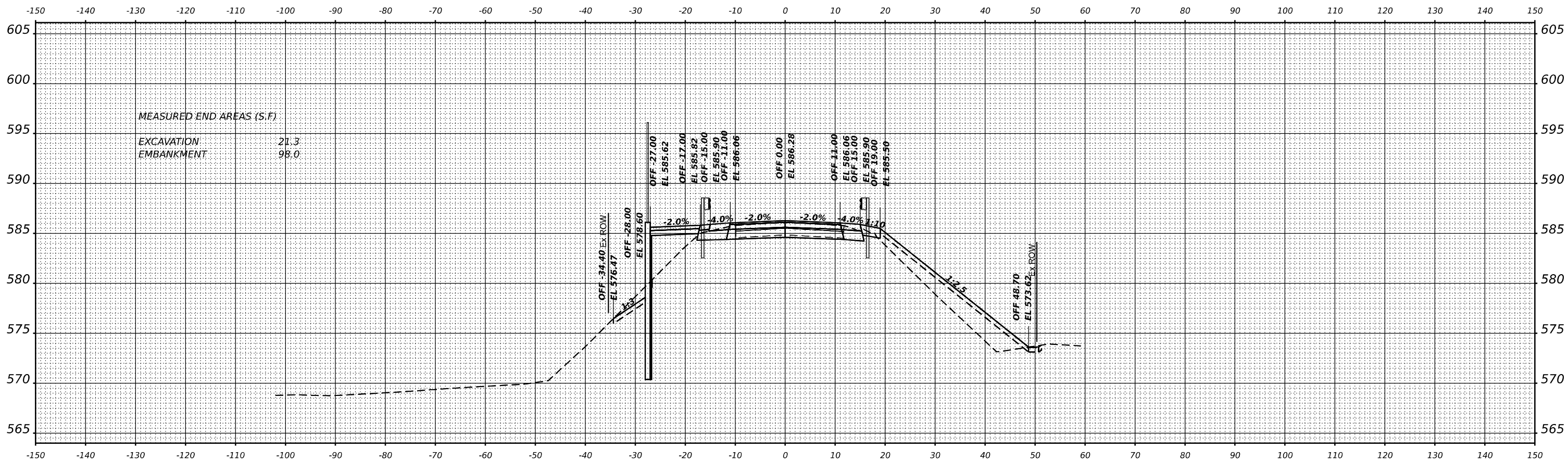
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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	AREAS	
	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
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STA 23+25.00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

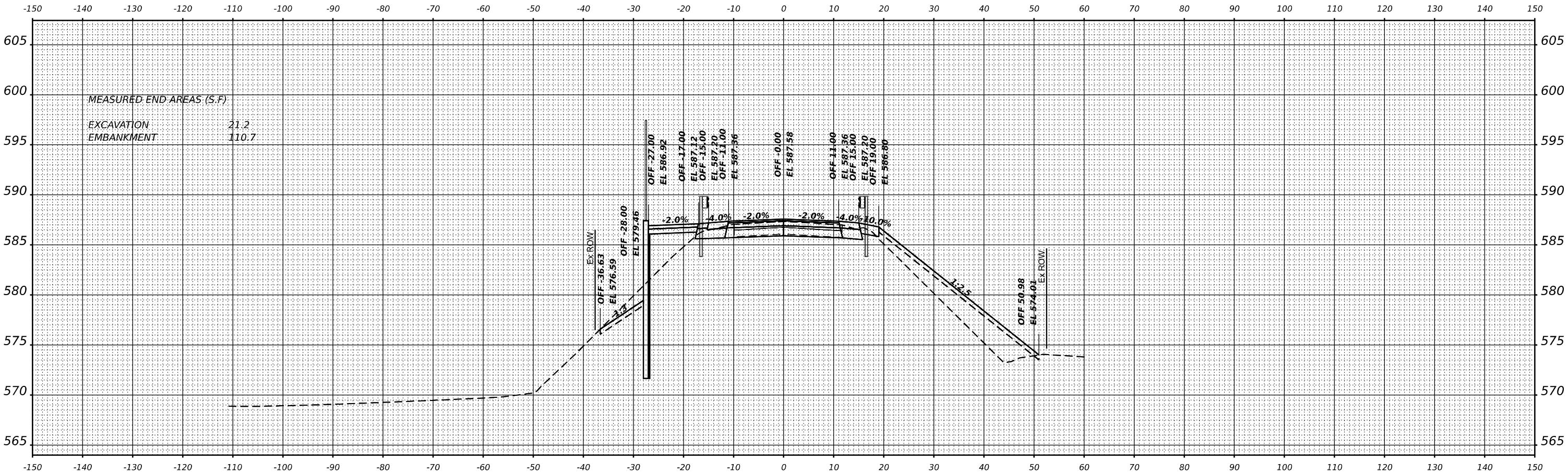
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

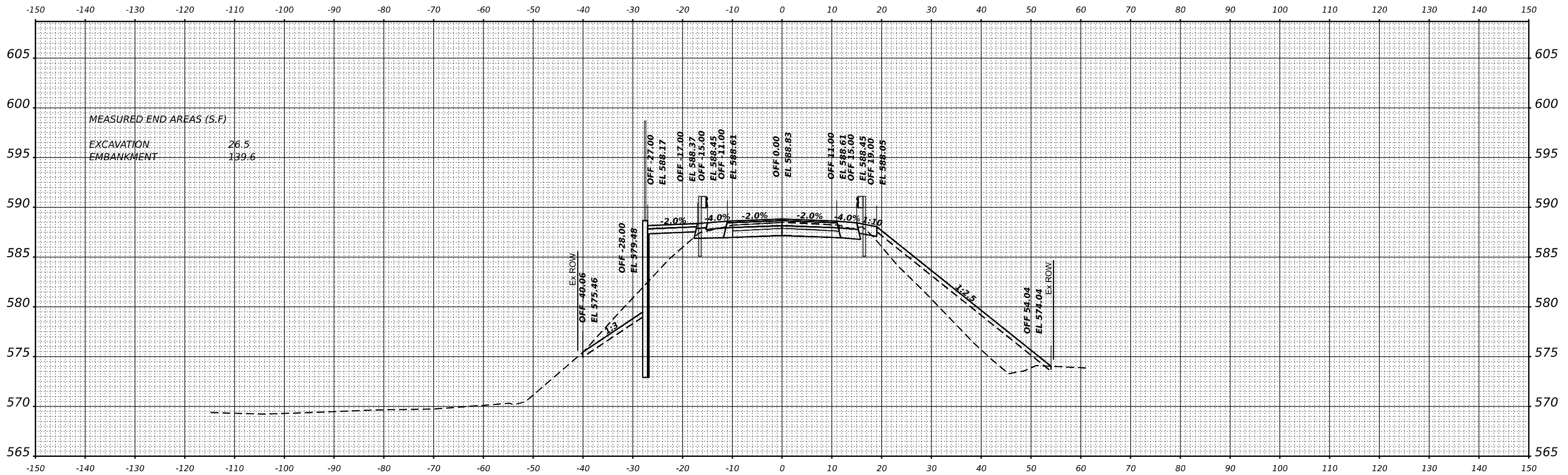
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F.A.I. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 116
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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STA 23+75.00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

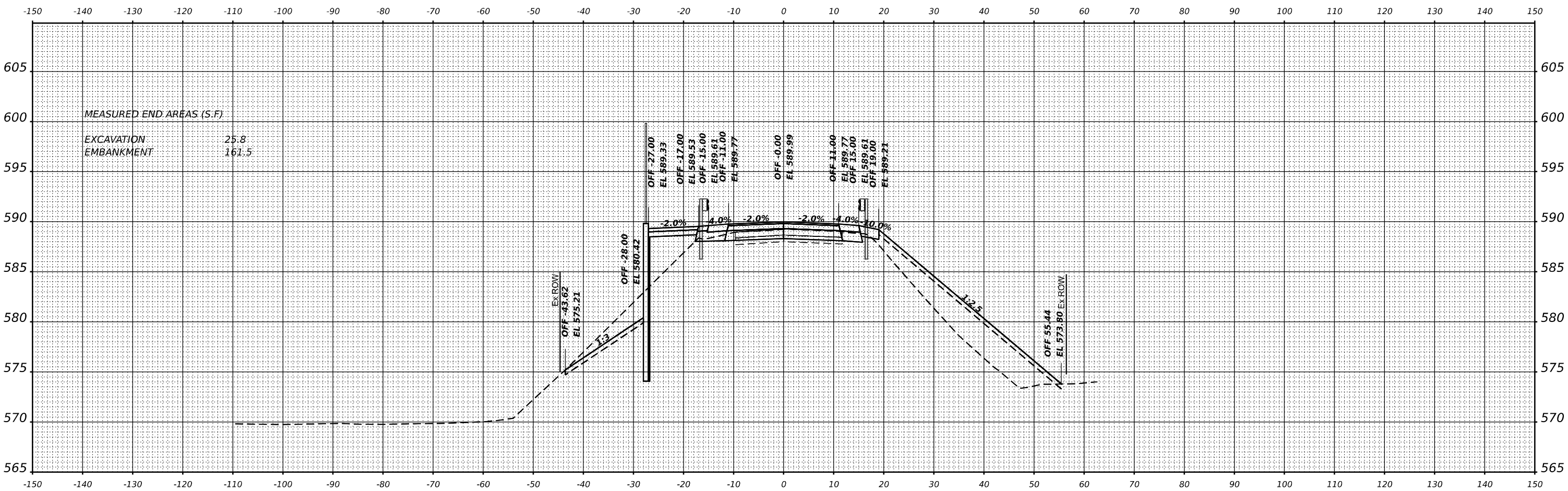
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	117
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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ORIGINAL SURVEY NO.	SURVEYED	DATE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

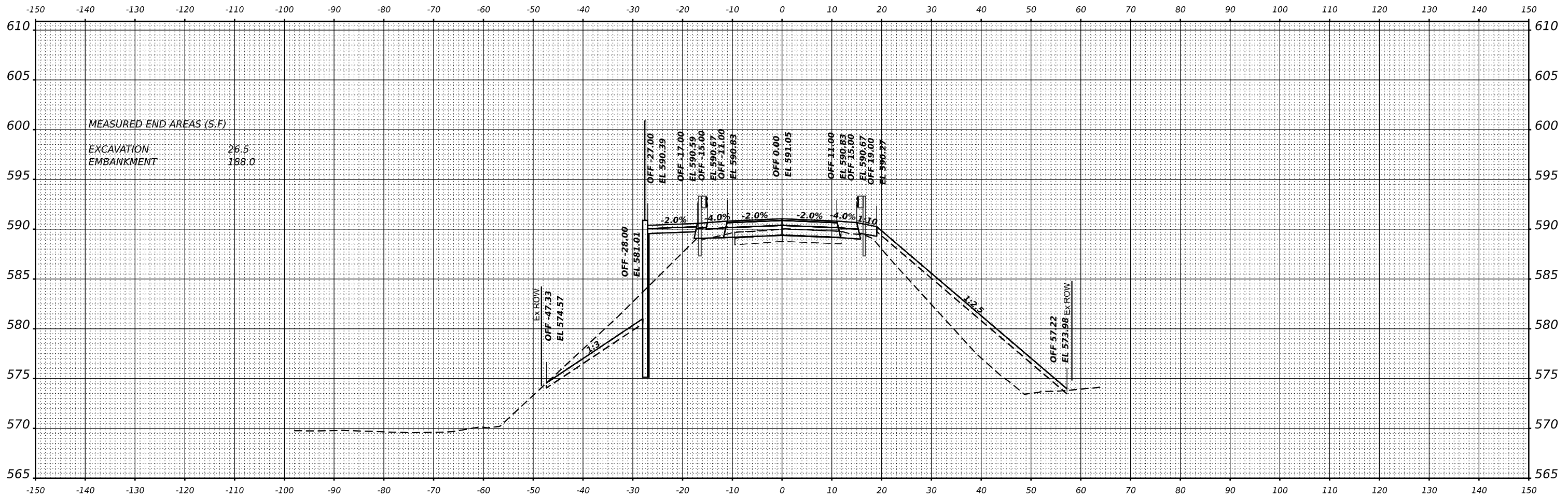
SCALE: SHEET 11 OF 31 SHEETS STA.

F.A.I. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 118
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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STA 24+25.00



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667" / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

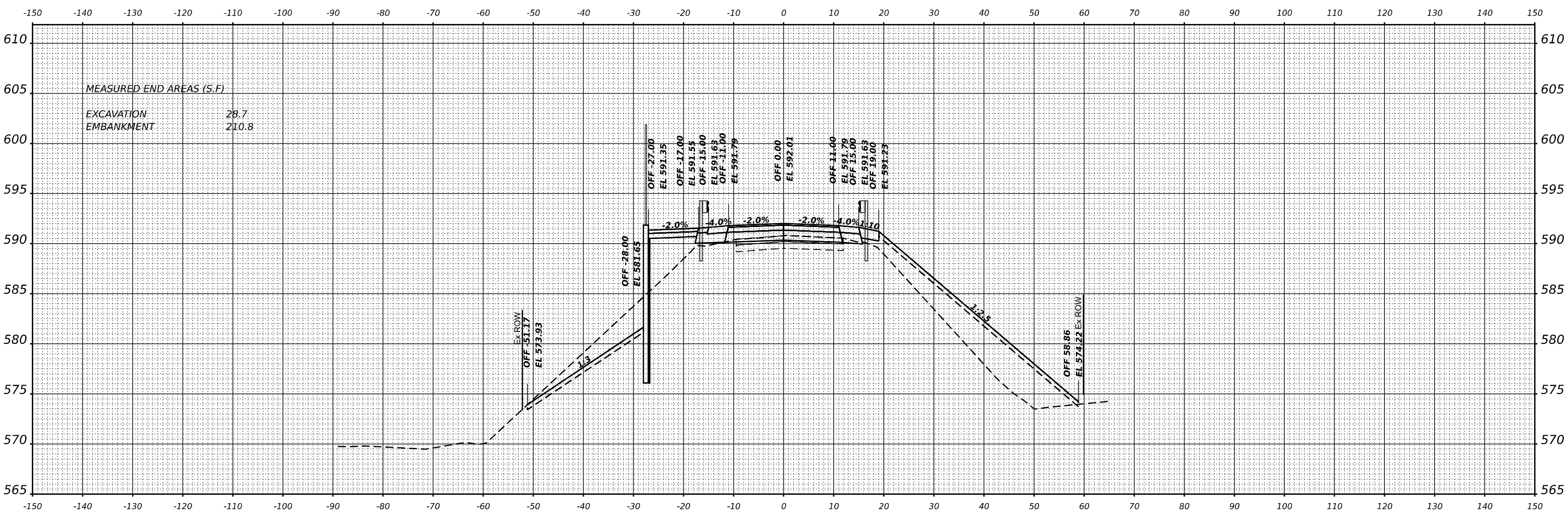
SCALE: SHEET 12 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	119
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 24+50.00



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

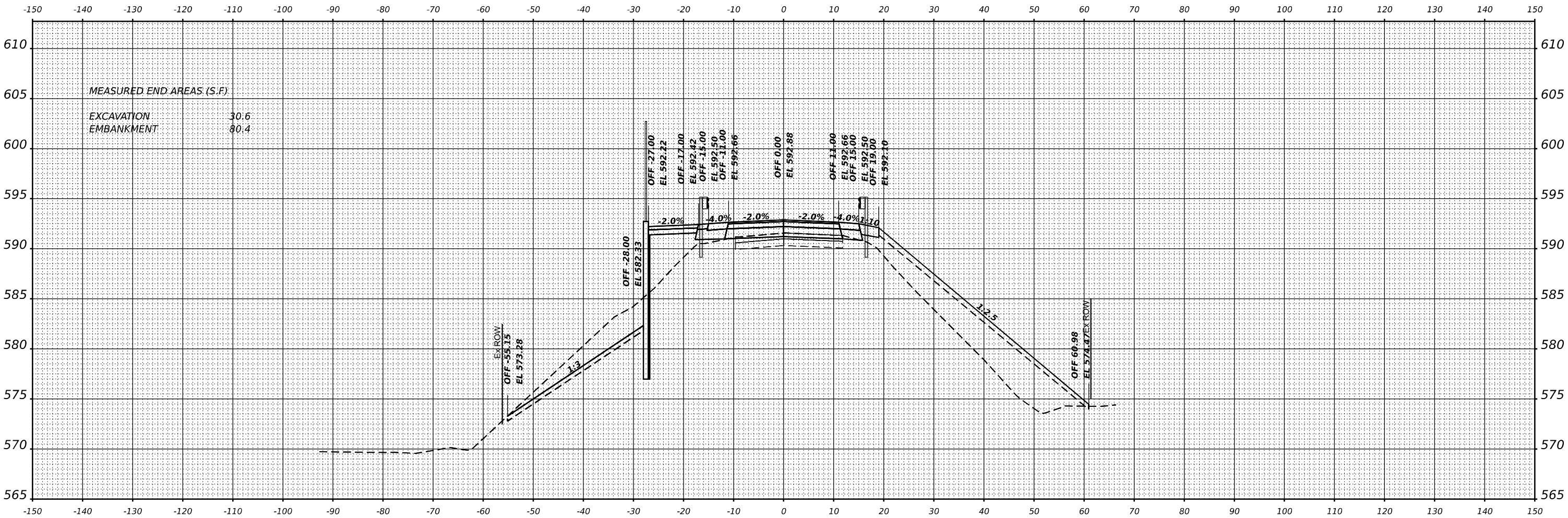
SCALE: SHEET 13 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	120
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 24+75.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

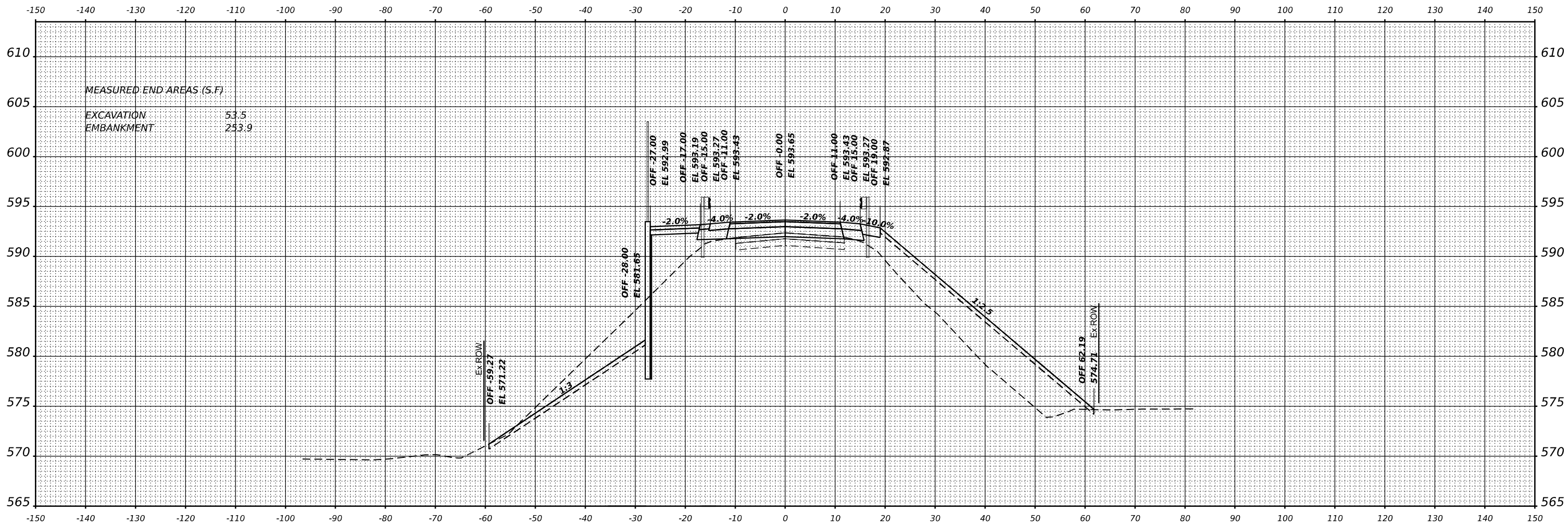
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	121
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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STA 25+00.00



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667" / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

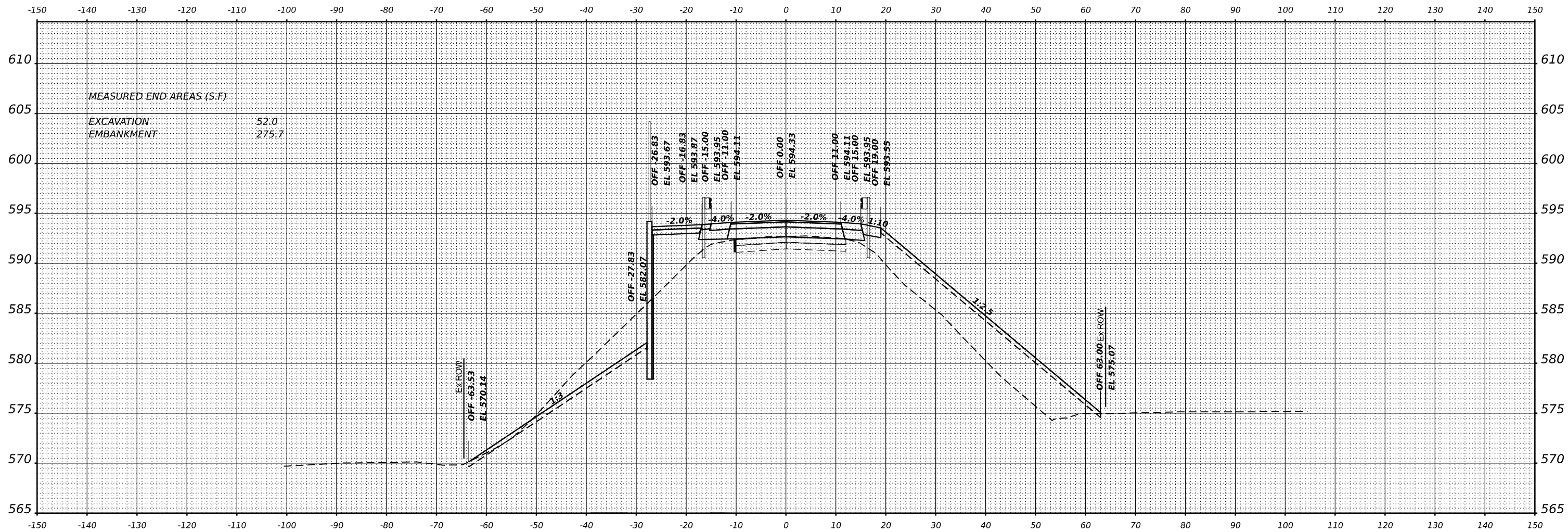
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	122
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 25+25.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667" / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 16 OF 31 SHEETS STA.

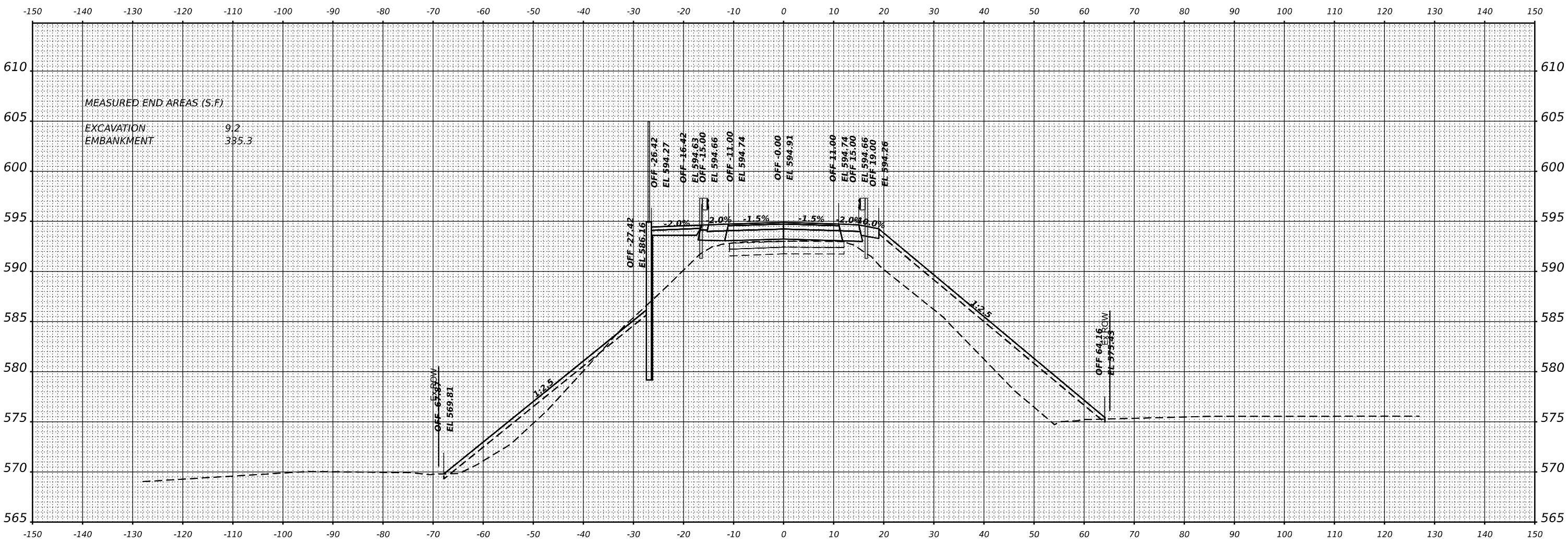
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	123
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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BRIDGE OMISSION STA. 25+67.59 TO STA. 27+99.25



STA 25+50.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

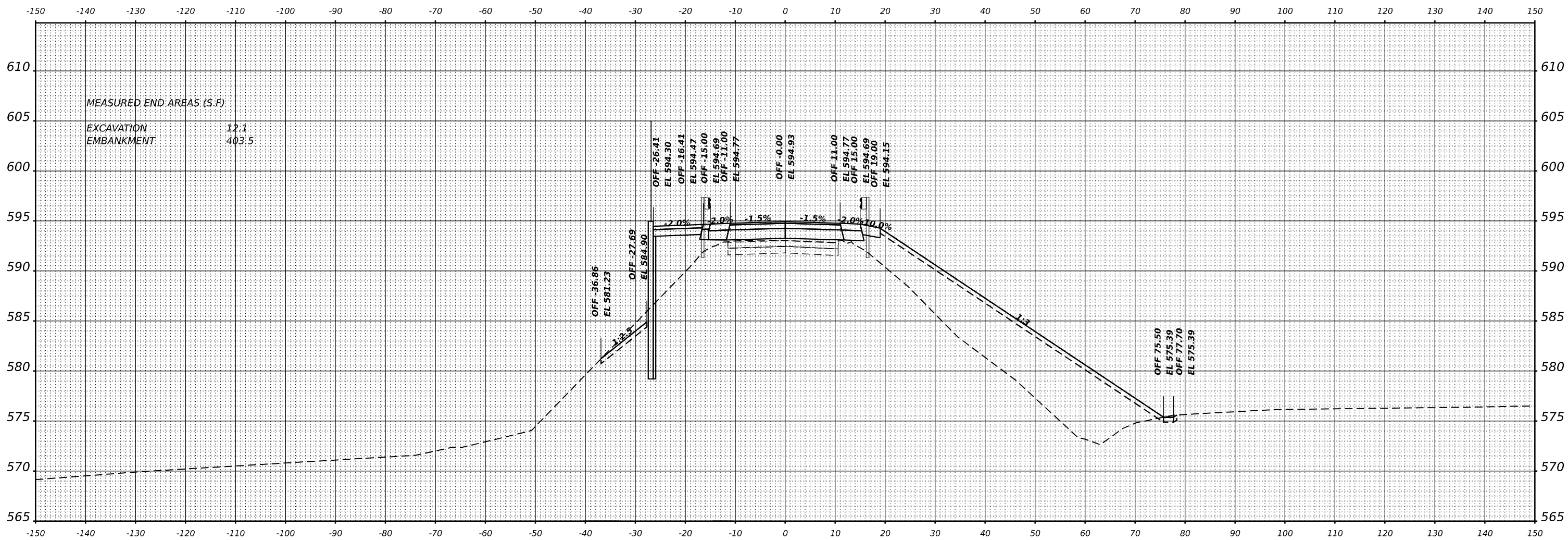
SCALE: SHEET 17 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	124
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 28+25.00



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

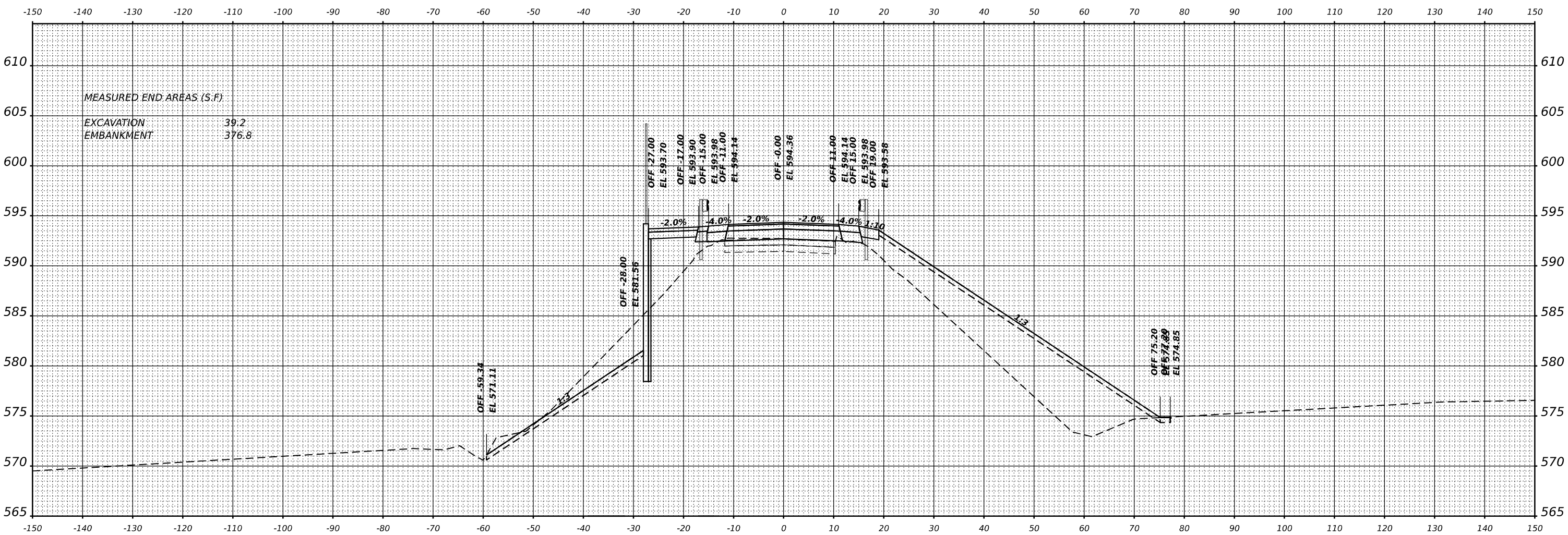
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	125
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 28+50.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

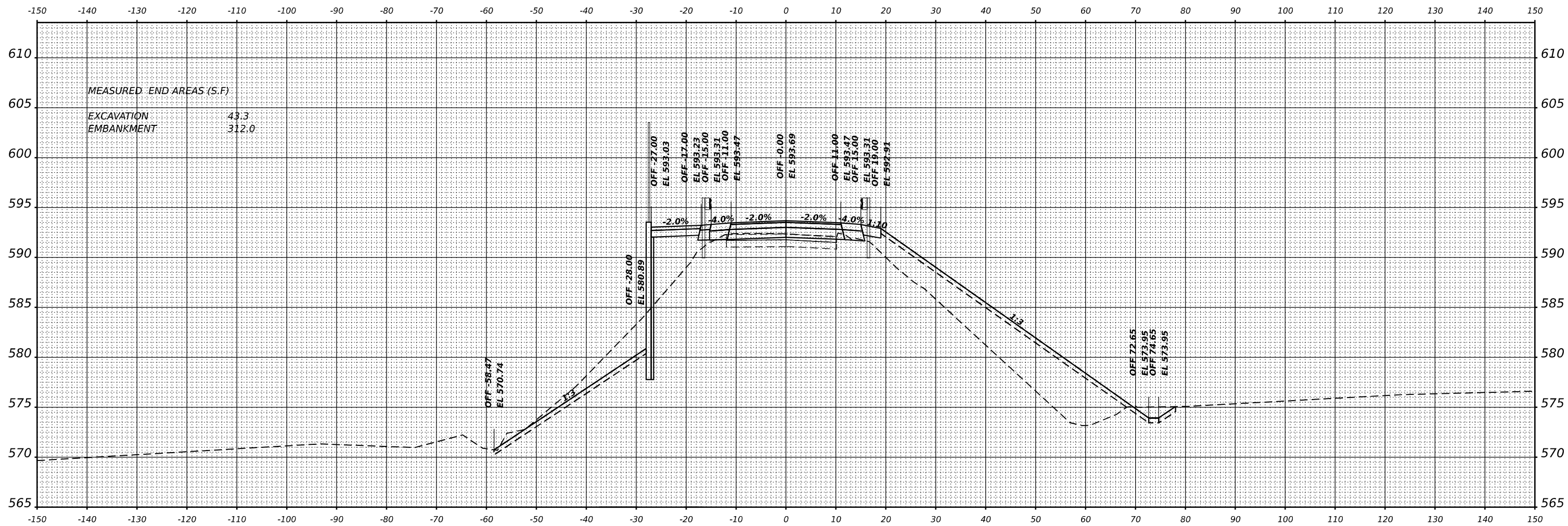
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	126
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 28+75.00



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667" / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

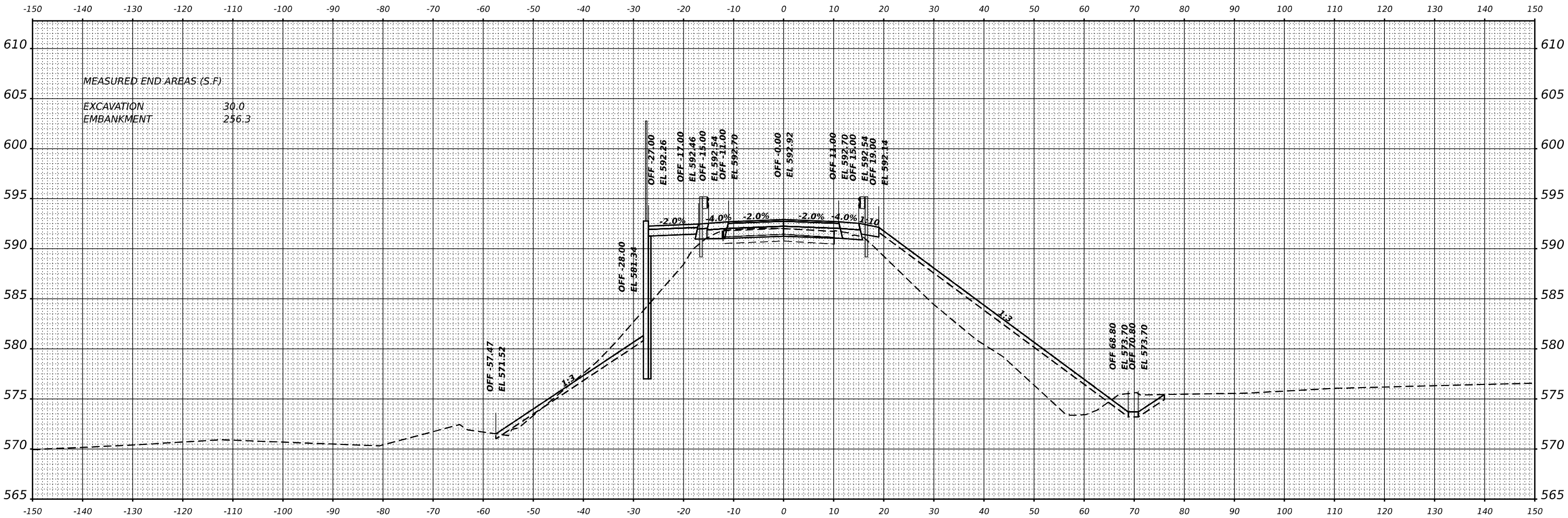
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	127
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 29+00.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667" / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

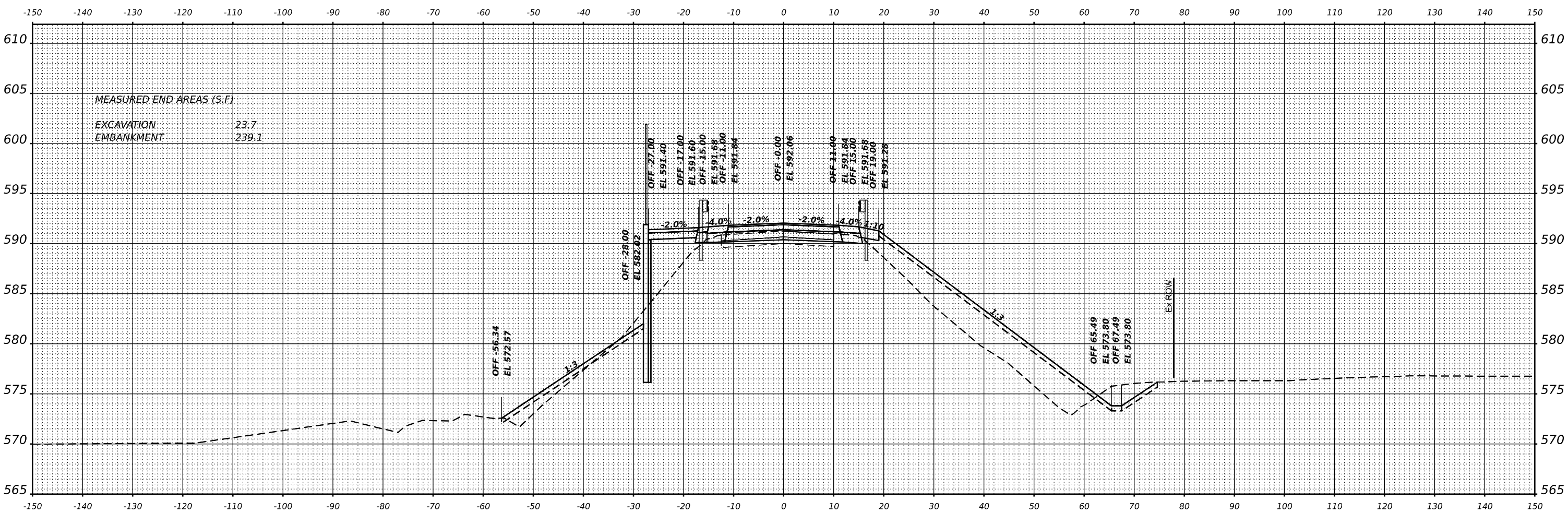
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	128
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 29+25.00



USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667" / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

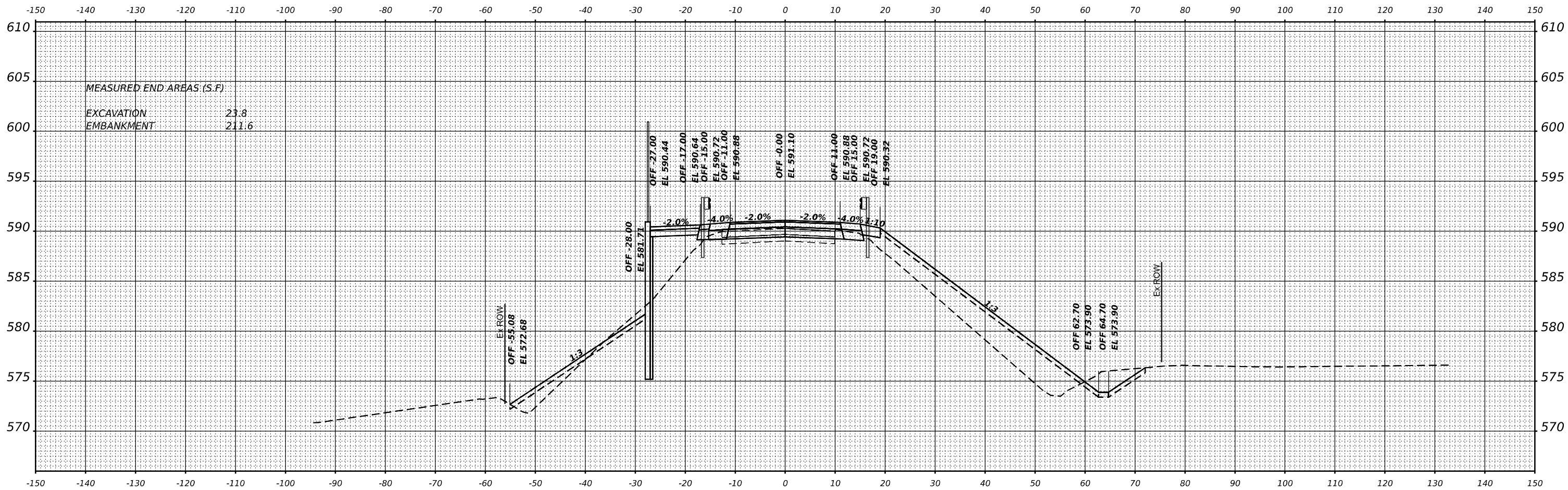
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	129
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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STA 29+50.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

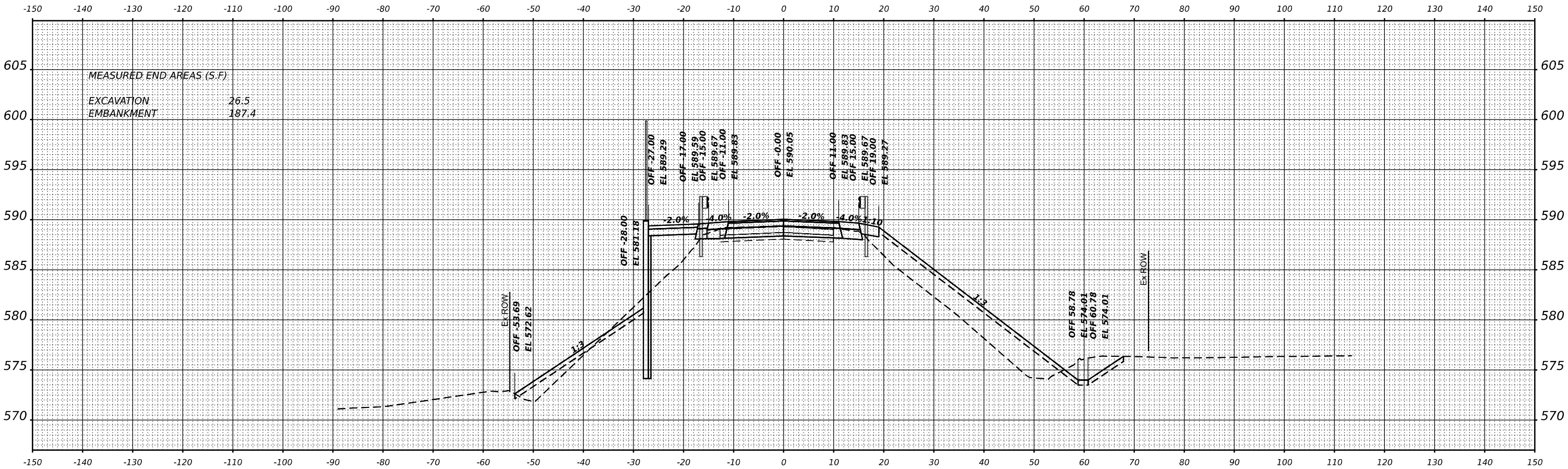
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	130
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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STA 29+75.00



USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 1/26/2023	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

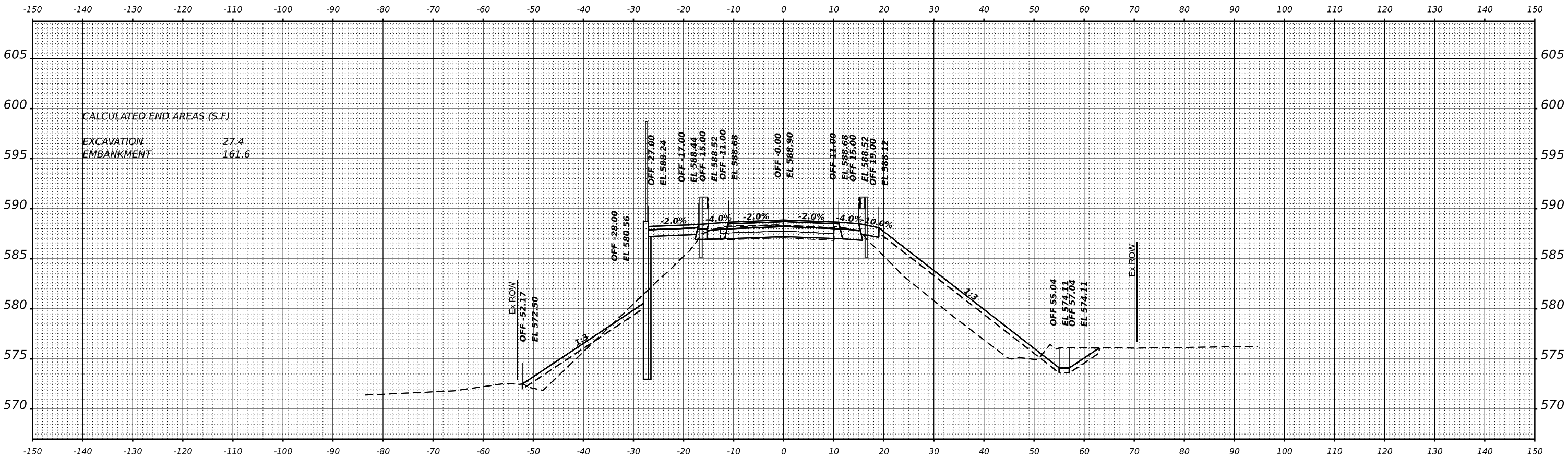
SCALE: SHEET 24 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	131
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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STA 30+00.00



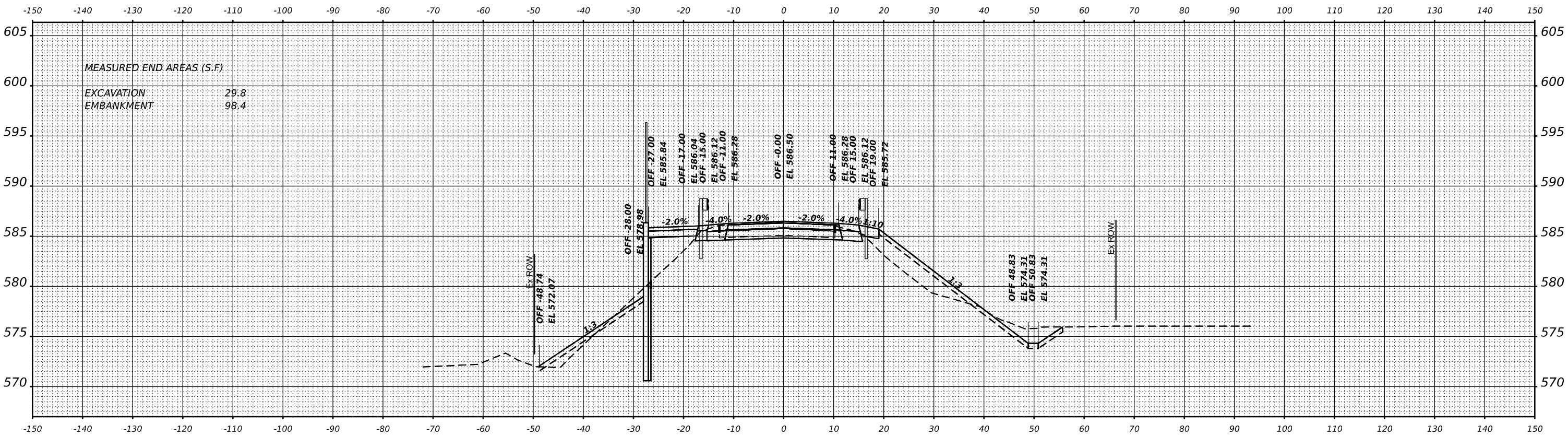
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PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
SCALE:	SHEET 25 OF 31 SHEETS	STA.

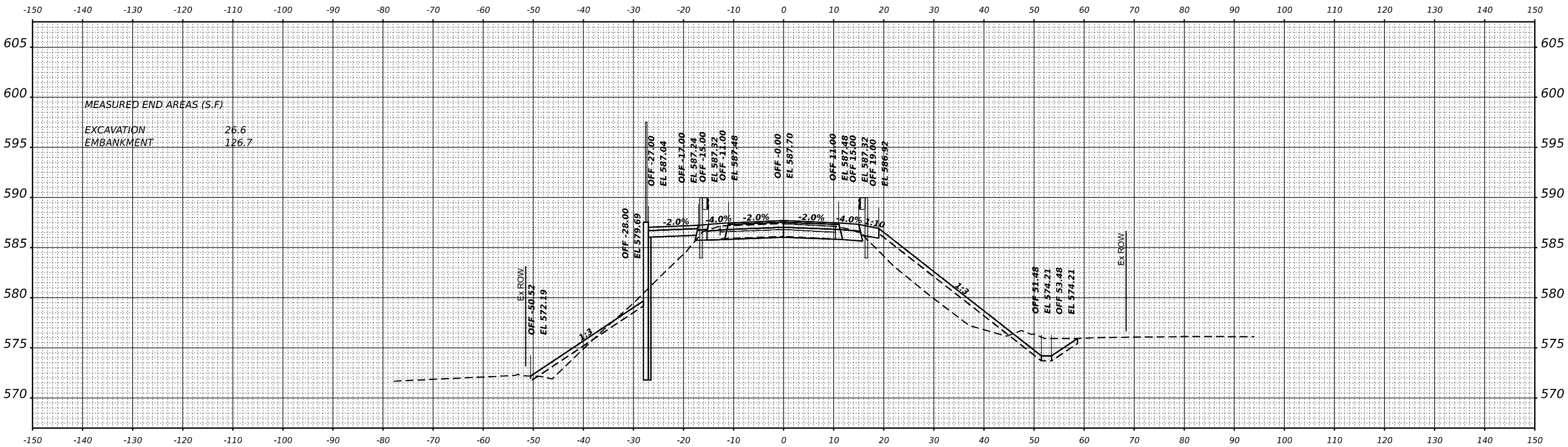
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	132
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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



STA 30+50.00

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



STA 30+25.00

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USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

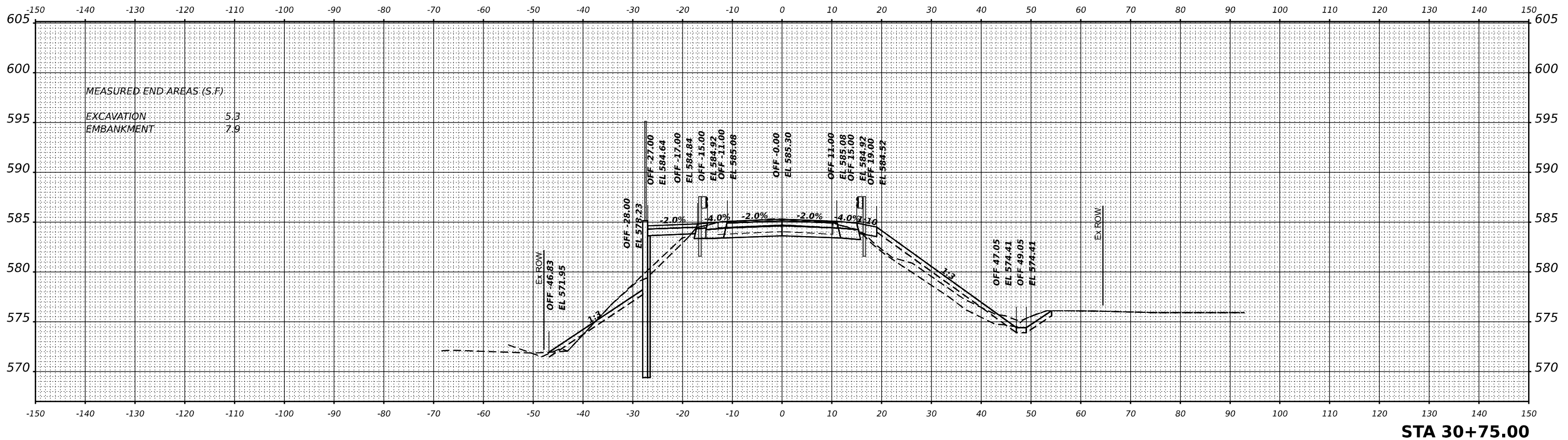
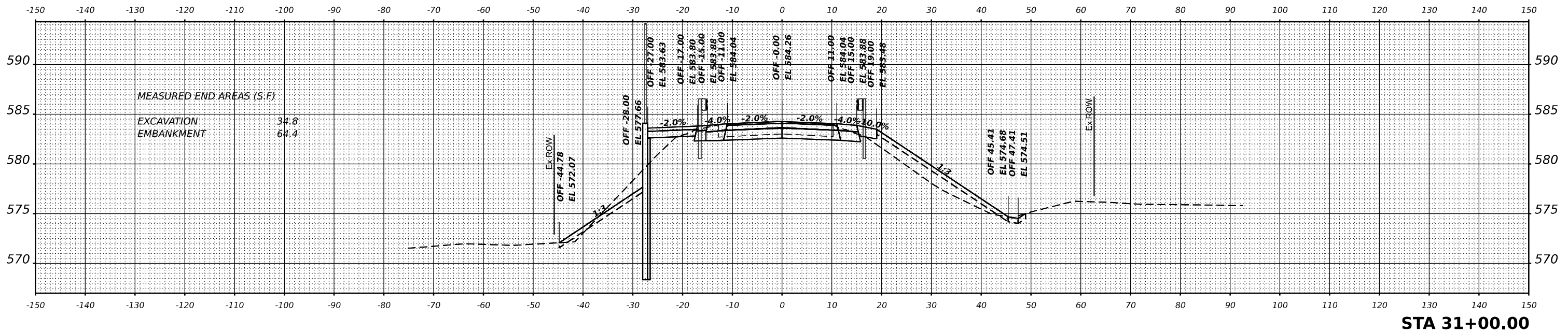
SCALE: SHEET 26 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	133
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME	= jstrouse
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PLLOT DATE	= 1/26/2023

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

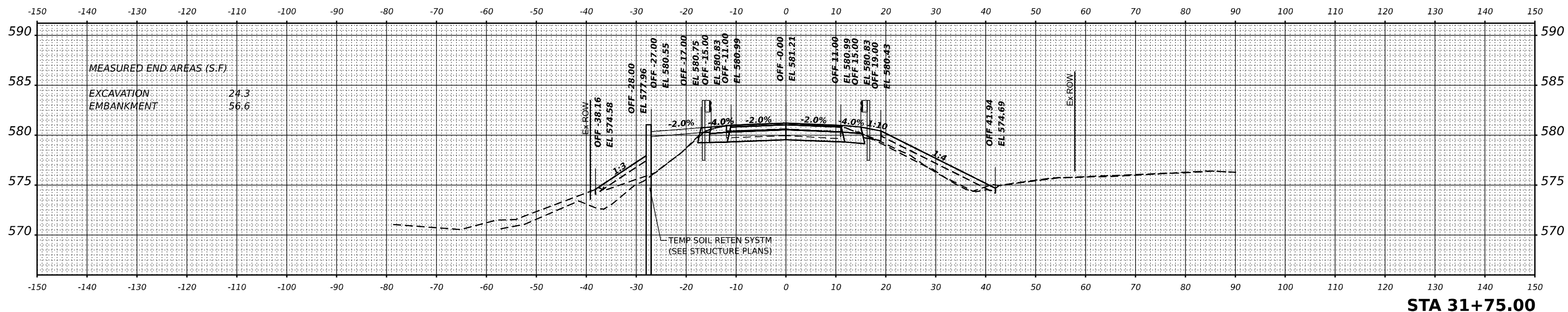
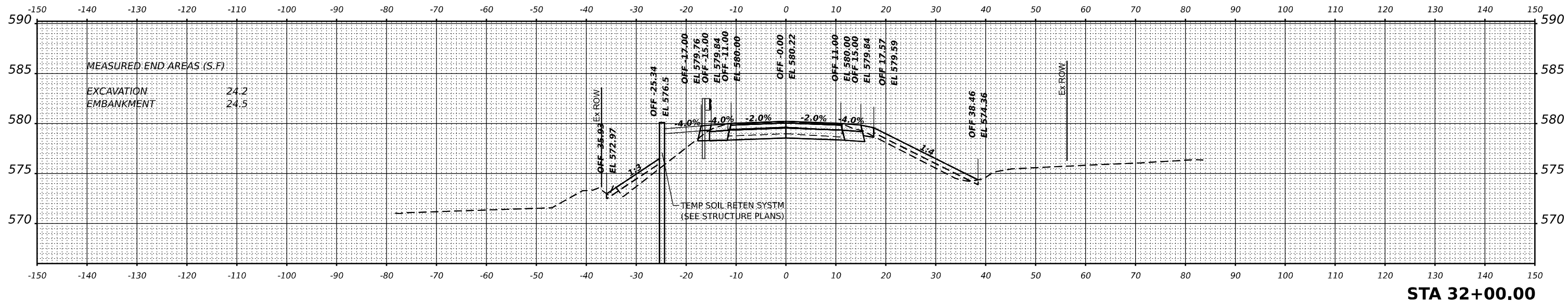
SCALE: SHEET 27 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	134
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = jstrouse	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667" / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

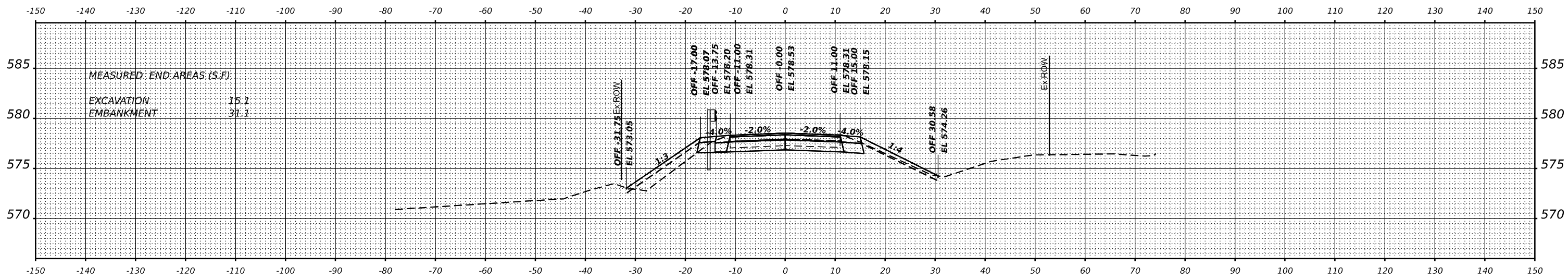
SCALE: SHEET 29 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	136
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				

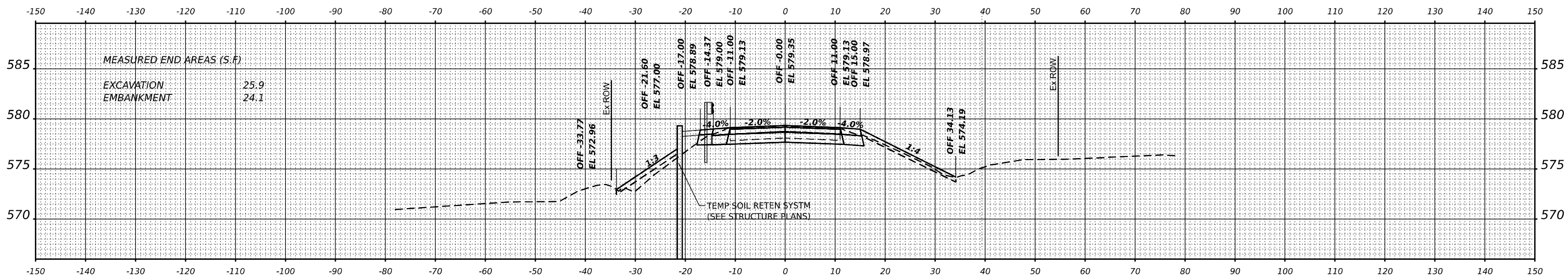
FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

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

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STA 32+50.00



STA 32+25.00



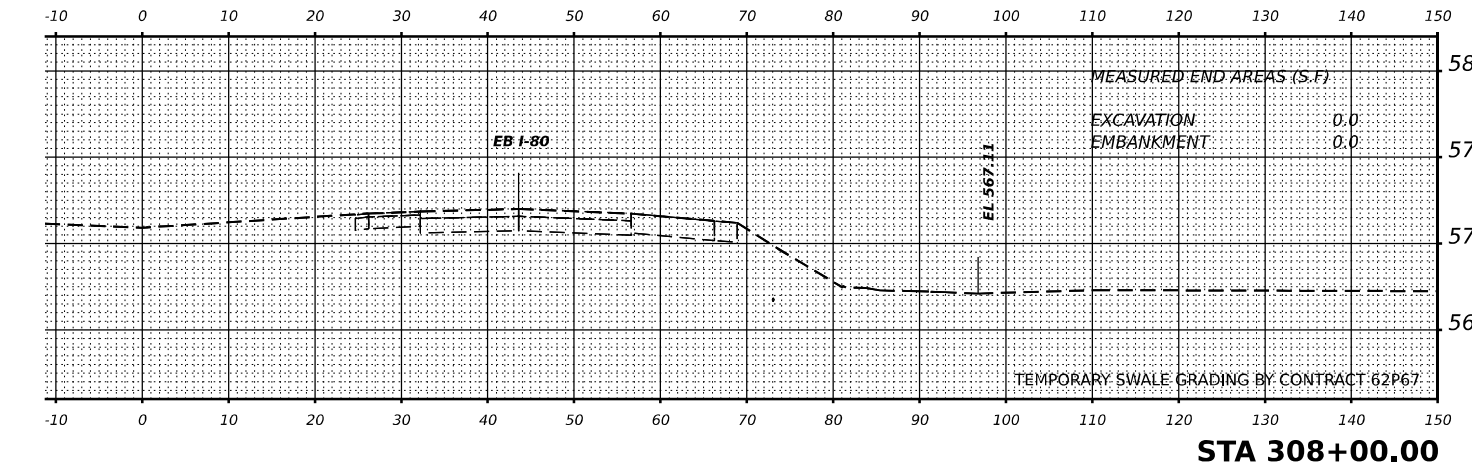
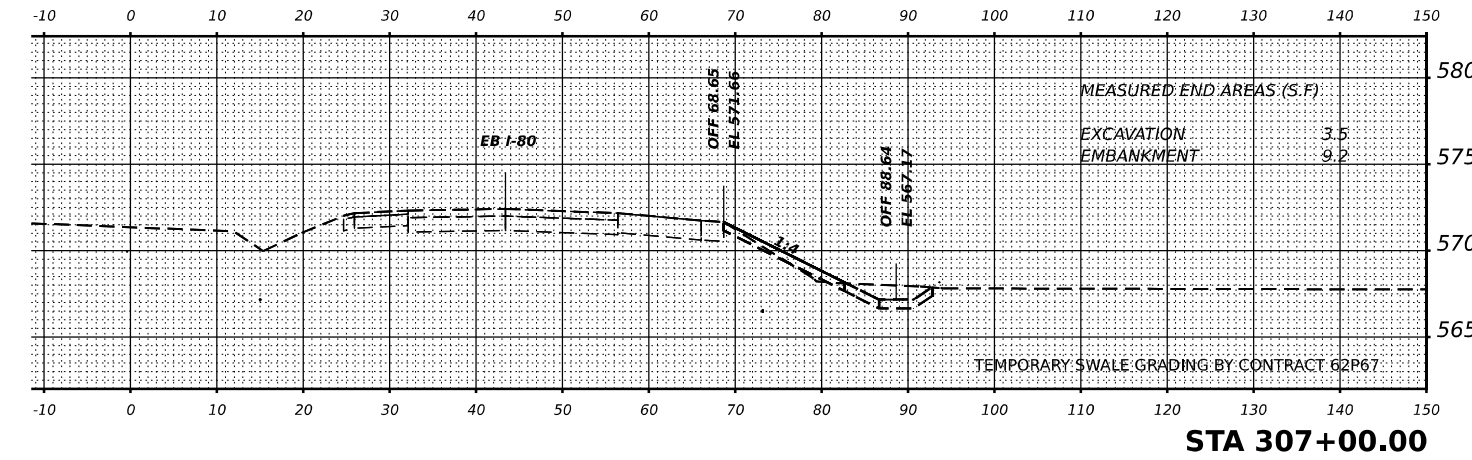
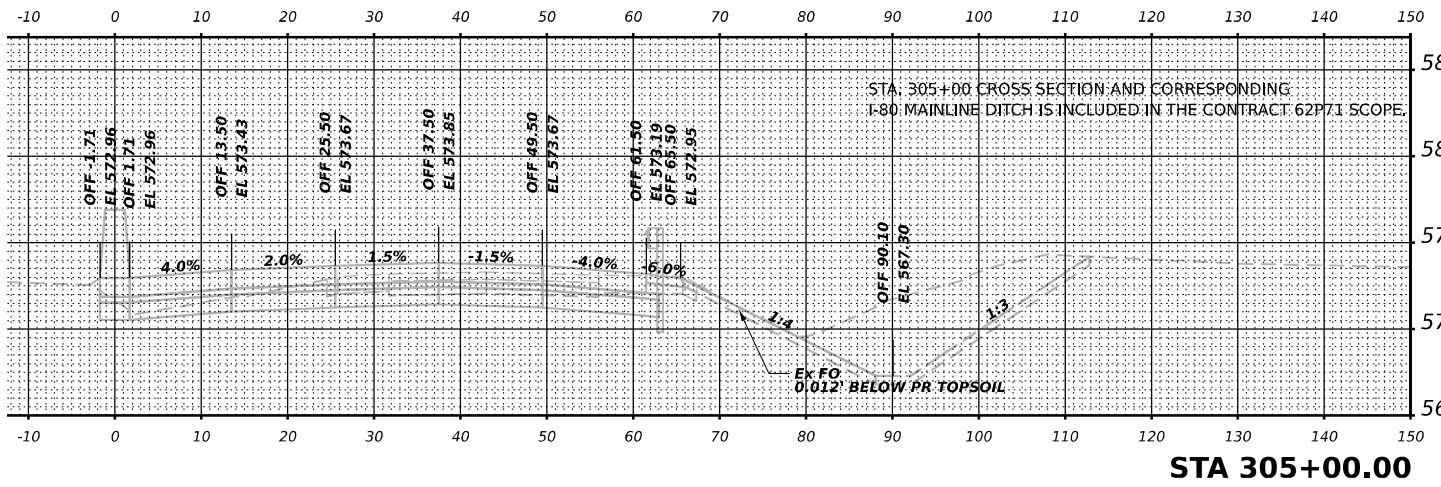
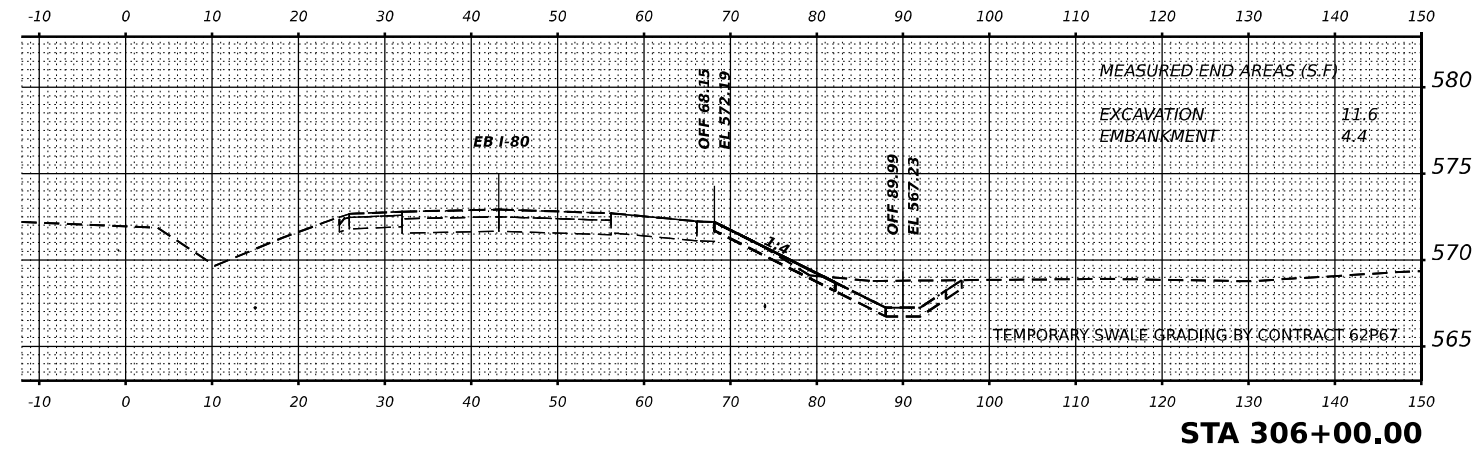
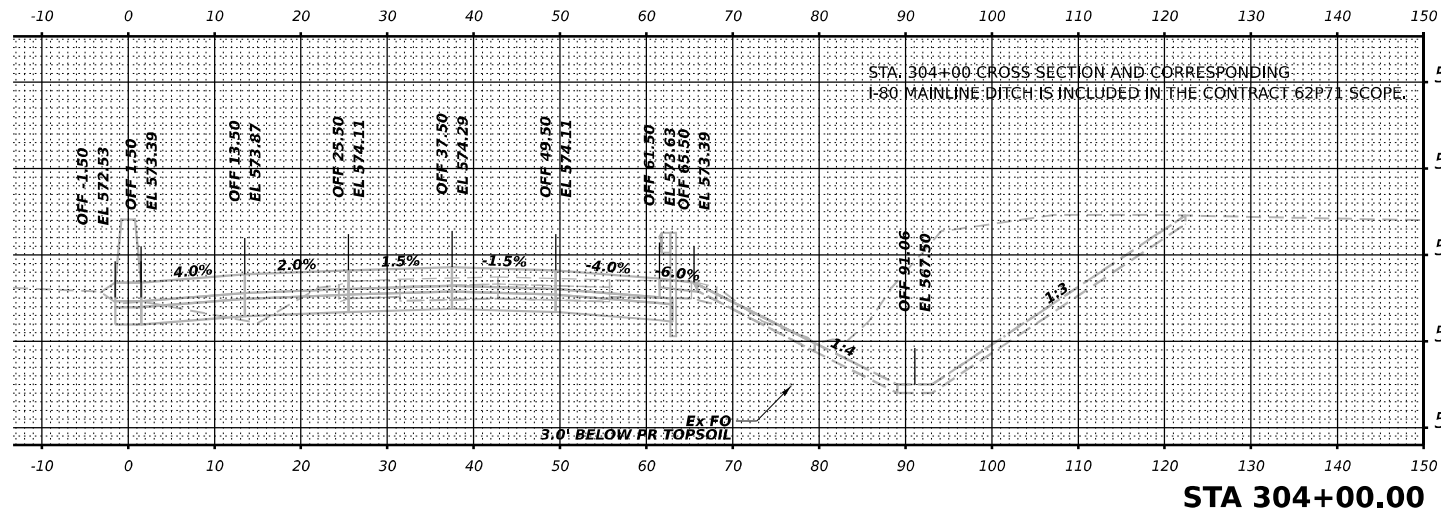
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	DRAWN -	REVISED -
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PLOT DATE = 1/26/2023	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET 30 OF 31 SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
056	2021-151-B	WILL	139	137
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				



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USER NAME = jstrouse	DESIGNED -	REVISED -
PLOT SCALE = 1/100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

T.W.P. RTE. 056	SECTION 2021-151-B	COUNTY WILL	TOTAL SHEETS 139	SHEET NO. 139
CONTRACT NO. 62P67				
ILLINOIS FED. AID PROJECT				