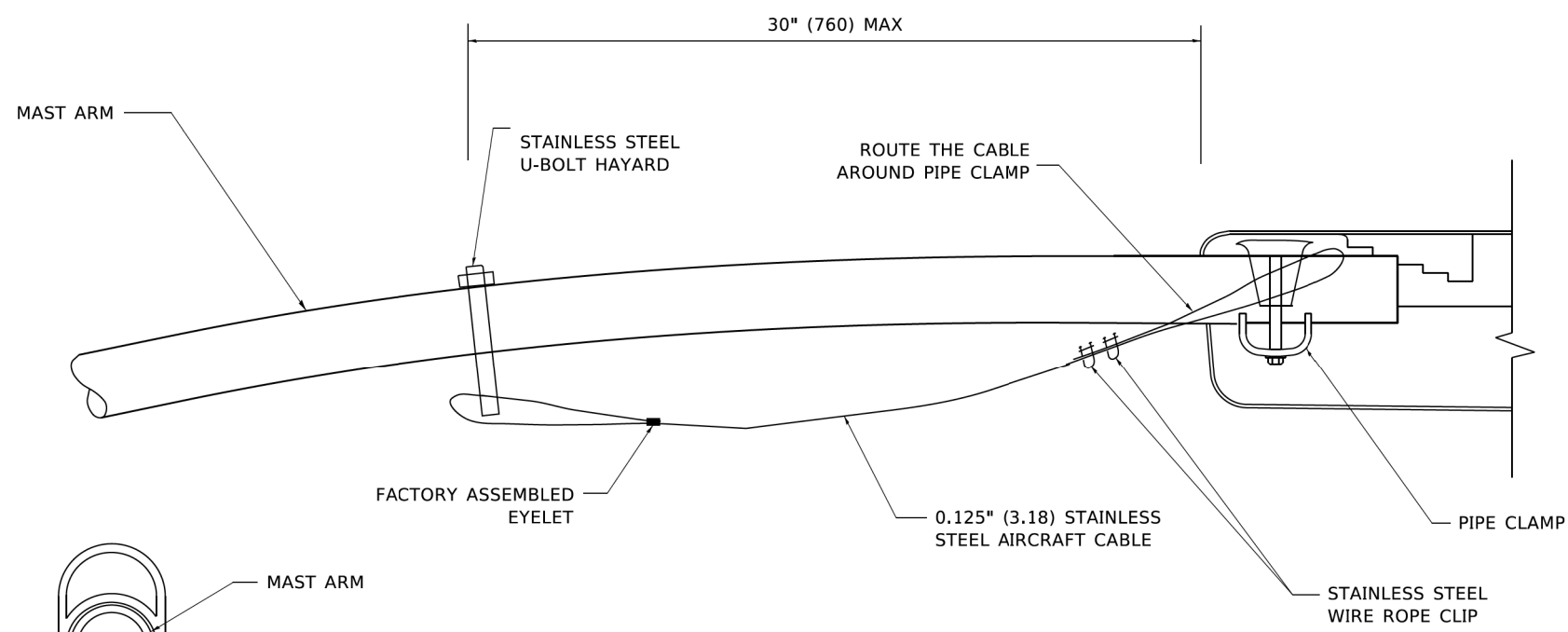
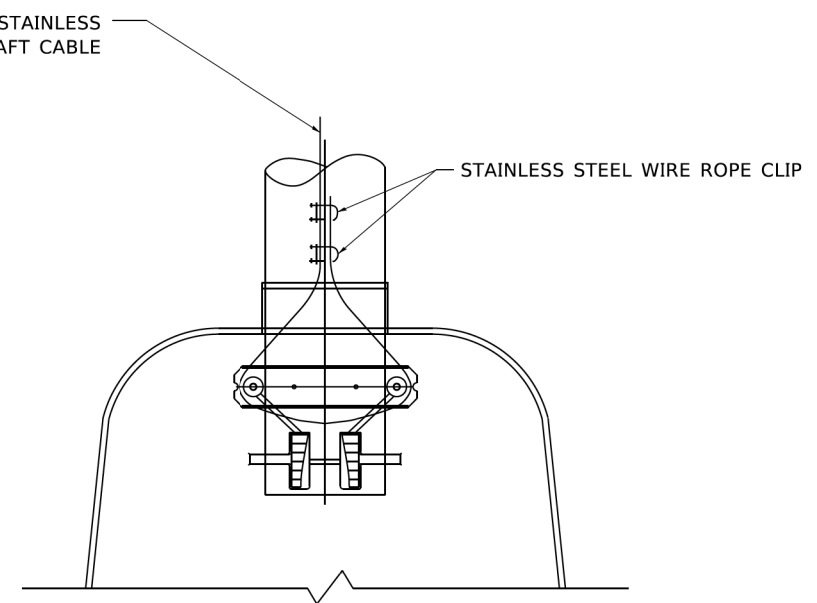


**SIDE VIEW (TRUSS ARM)**  
**N.T.S.**



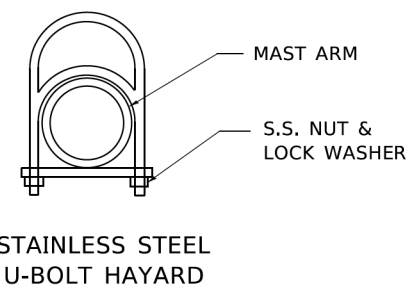
**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
**N.T.S.**



**BOTTOM VIEW**  
**N.T.S.**

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.



MODEL: Default  
 FILE: \\miles.pwvdotgov\pwwdot\Documents\DOT\_Offices\District\_1\Projects\DH\5427231\CADD\ba\CADsheets\ba701.dgn

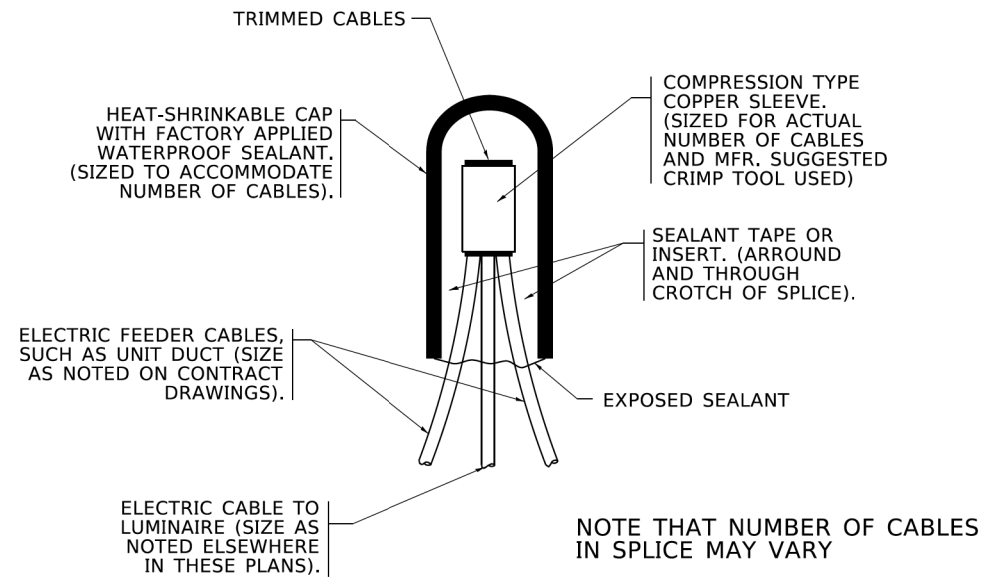
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	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / ft.	CHECKED -	REVISED -
PLOT DATE = 4/19/2019	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

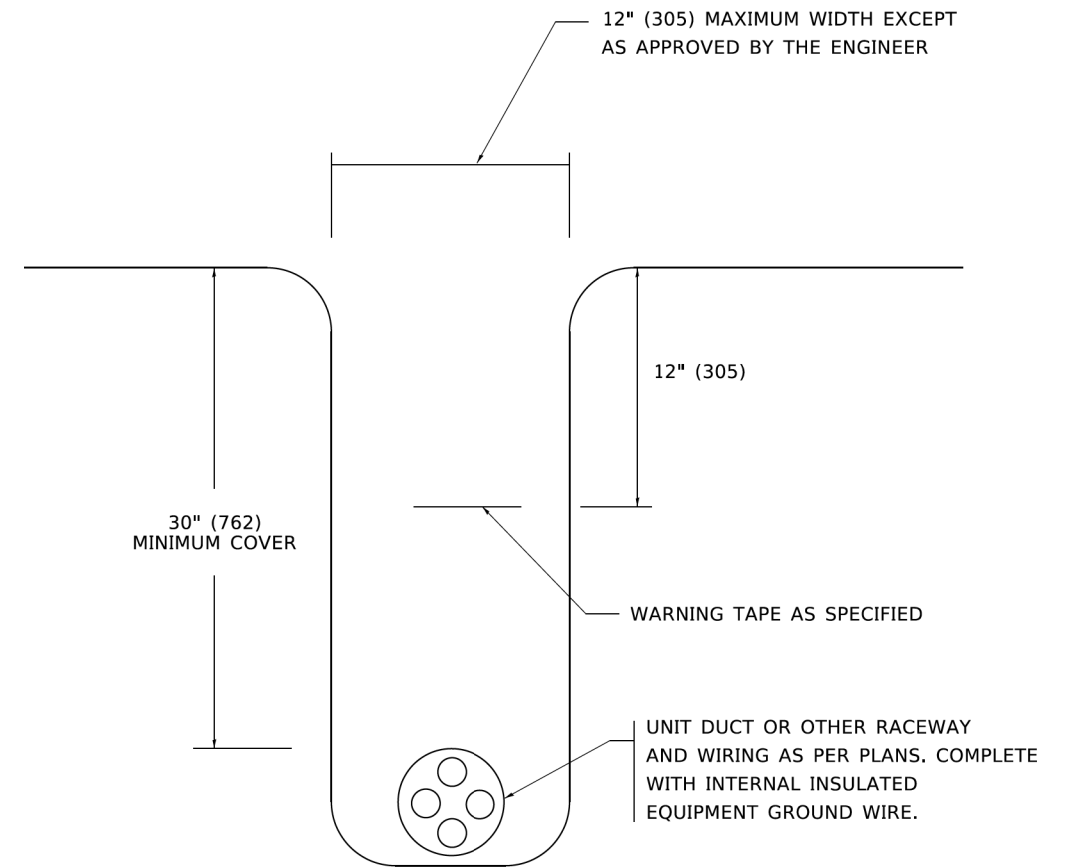
**LUMINAIRE SAFETY CABLE ASSEMBLY**

SCALE: NONE SHEET 25 OF 29 SHEETS STA. TO STA.

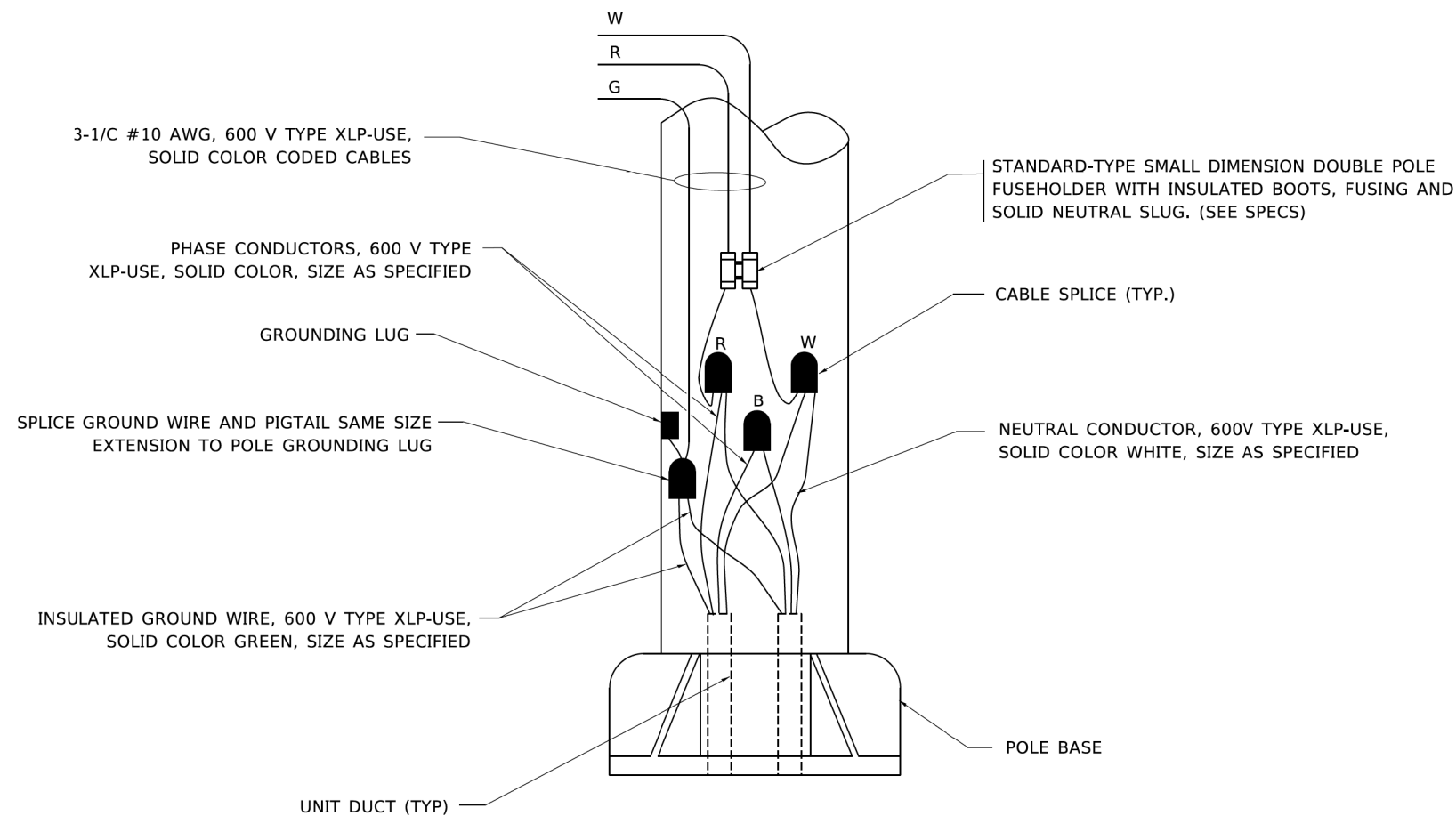
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	401
<b>BE-701</b>		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				



**TYPICAL SPLICE DETAIL**  
**N.T.S.**



**TYPICAL WIRING IN TRENCH DETAIL**  
**N.T.S.**



**POLE WIRING DETAIL**  
**N.T.S.**

MODEL: Default  
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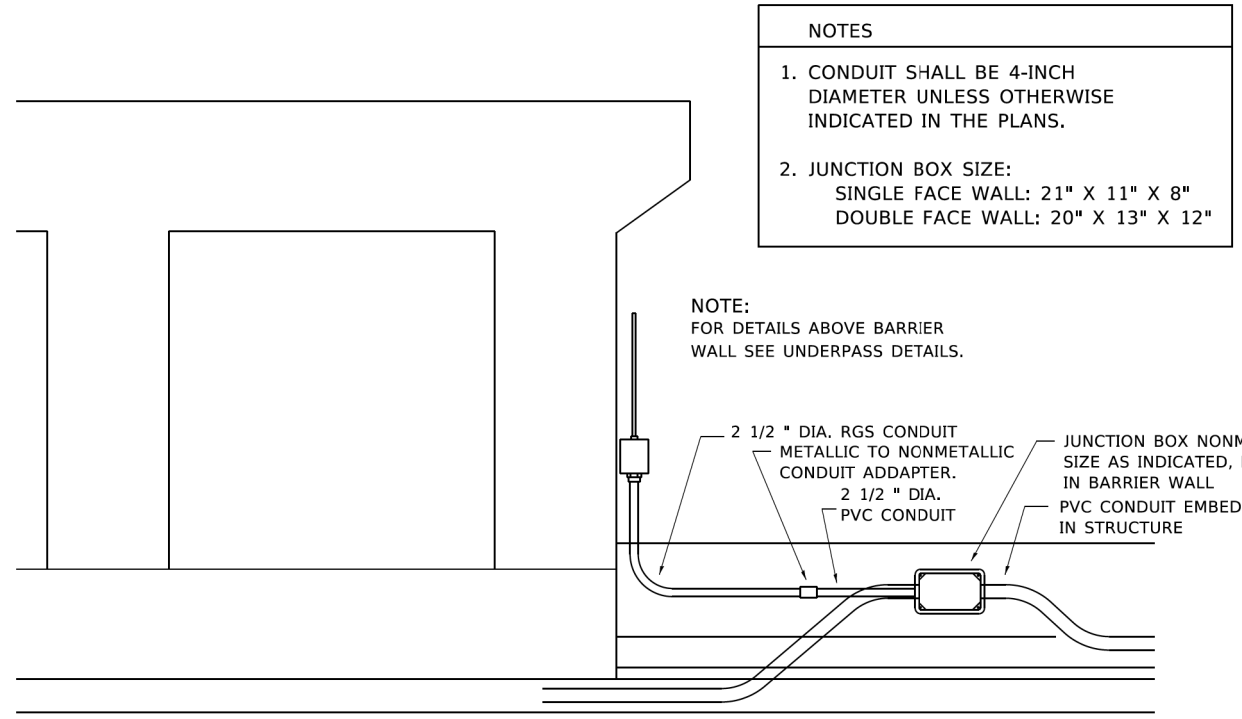
USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020
	DRAWN -	REVISED -
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PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS**  
**SHEET A**

SCALE: NONE SHEET 26 OF 29 SHEETS STA. TO STA.

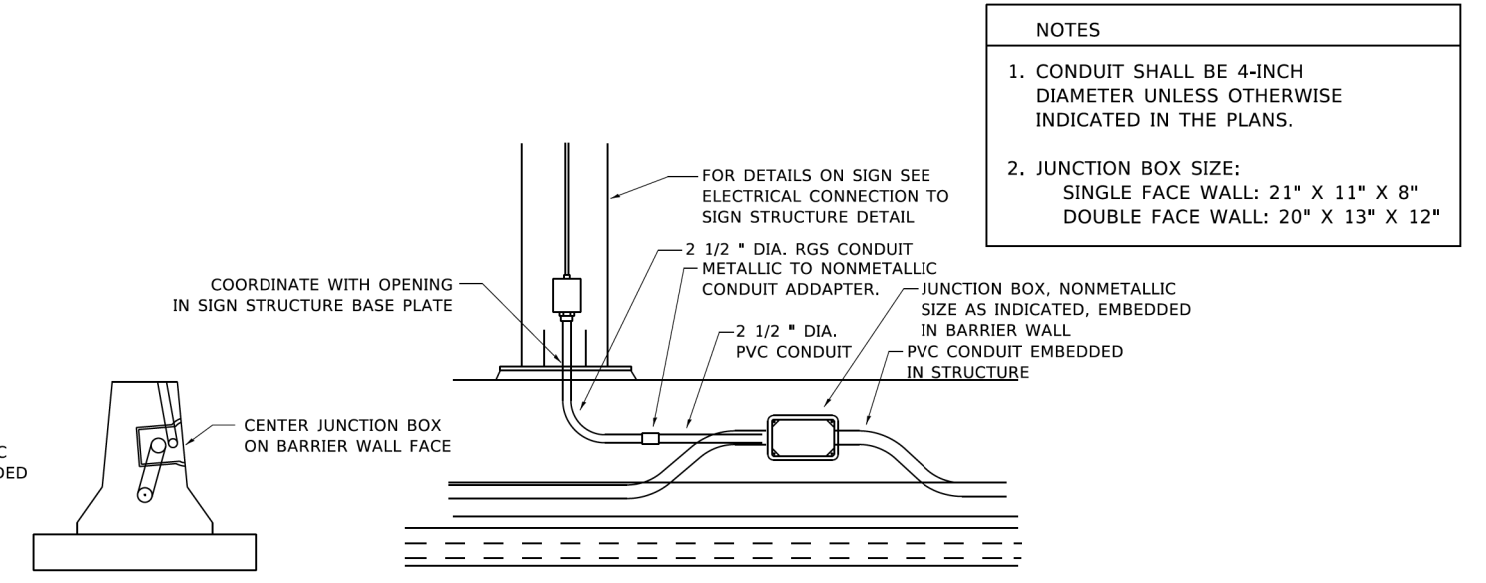
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336	06-00329-02-PW	MCHENRY	735	402
<b>BE-702</b>		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				



- NOTES**
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE:  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

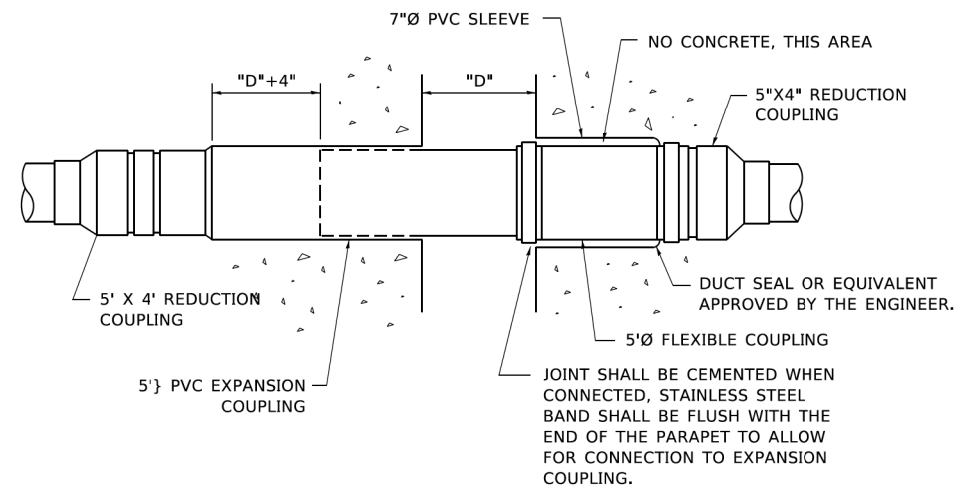
NOTE:  
FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

ED - BWD  
**ELECTRIC CONNECTION TO UNDERPASS LIGHTING**

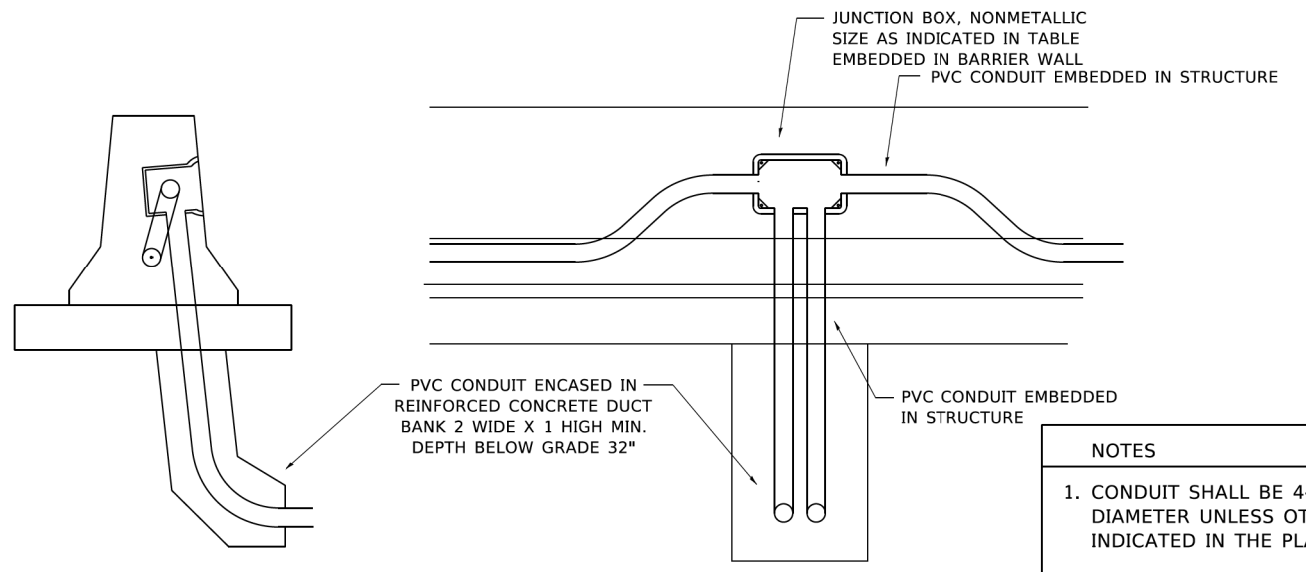


- NOTES**
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE:  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN  
**JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING**



**INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT**  
(N.T.S.)



- NOTES**
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE:  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW  
**JUNCTION BOX EMBEDDED IN BARRIER WALL**

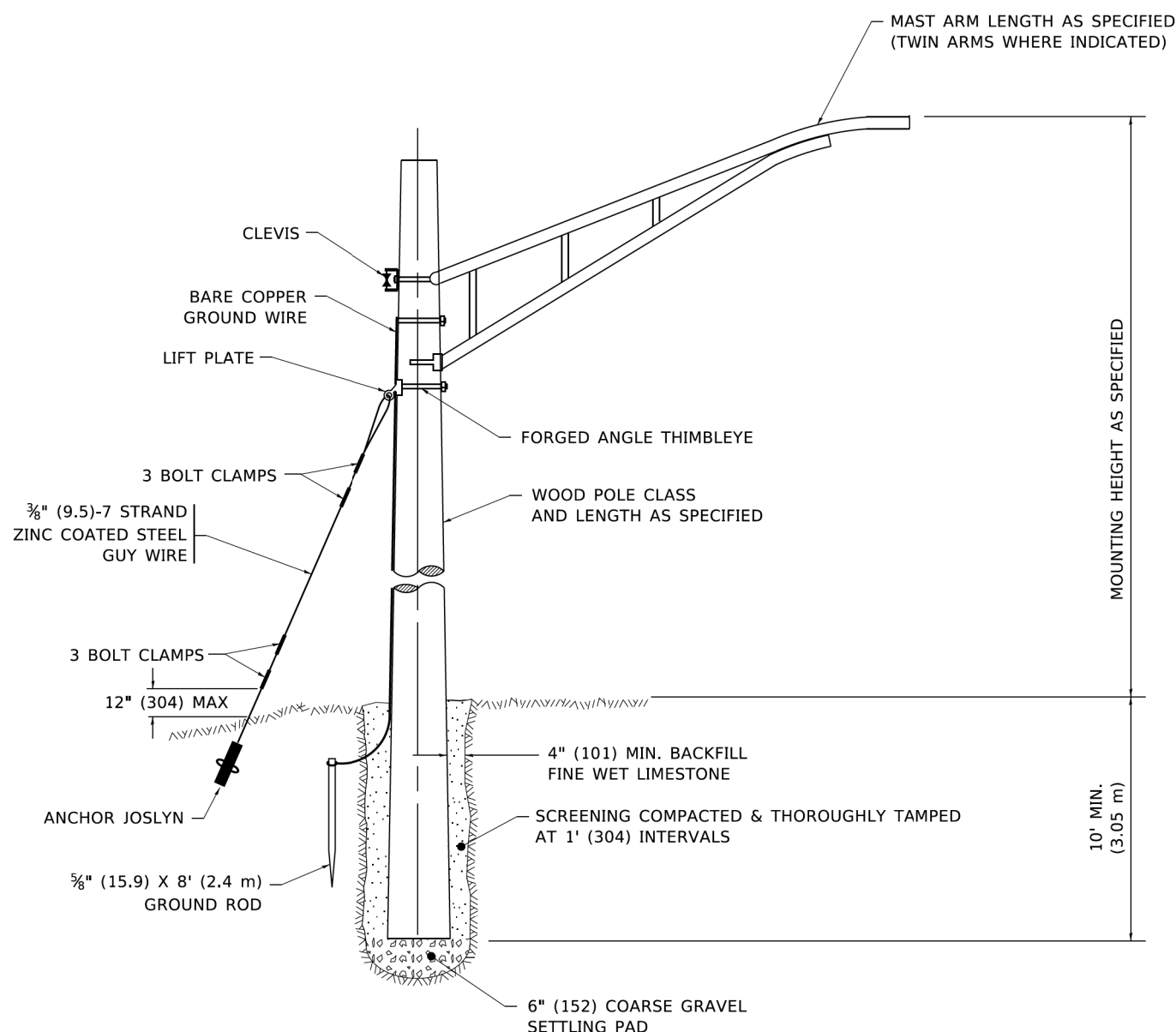
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USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 4/19/2019	DATE - 01-20-2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MISCELLANEOUS ELECTRICAL DETAILS, SHEET B</b>			
<b>J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING</b>			
SCALE: NONE	SHEET 27	OF 29 SHEETS	STA. TO STA.

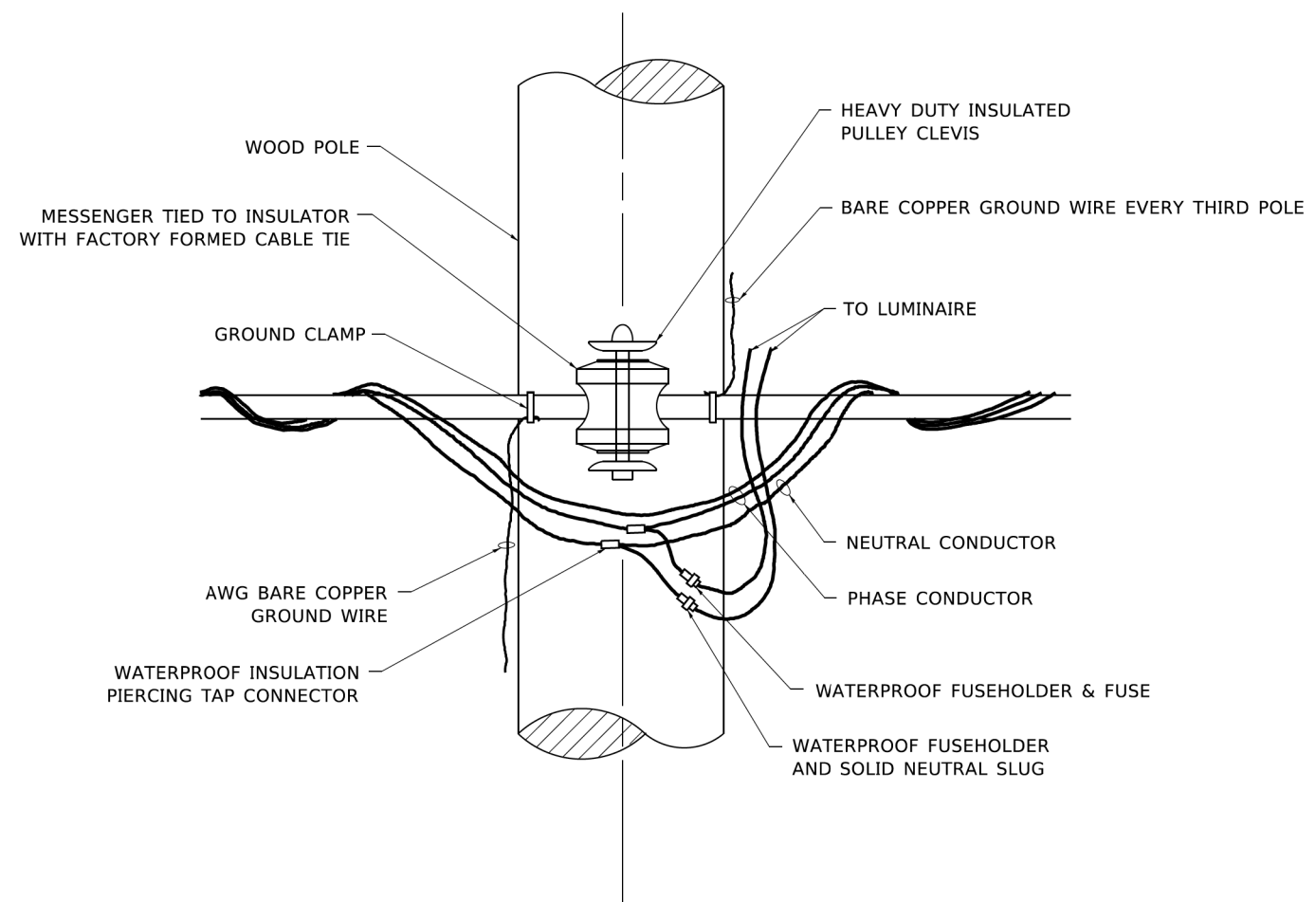
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336	06-00329-02-PW	MCHENRY	735	403
BE-703		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				



**TEMPORARY LIGHT POLE DETAIL**

**NOTE:**

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



**TEMPORARY LIGHT POLE ATTACHMENT DETAIL**

MODEL: Default  
 FILE: \\miller-prod\share\com\dat\_illinois\pwr\WDDOT\Documents\DOT\_Offices\IDistrict\_1\Projects\GIS\GIS\22\22-11\CADD\ba\CADsheets\ba800.dgn

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03
	DRAWN -	REVISED - R.T. 07-26-16
PLOT SCALE = 50,0010' / ft.	CHECKED -	REVISED -
PLOT DATE = 4/19/2019	DATE -	REVISED -

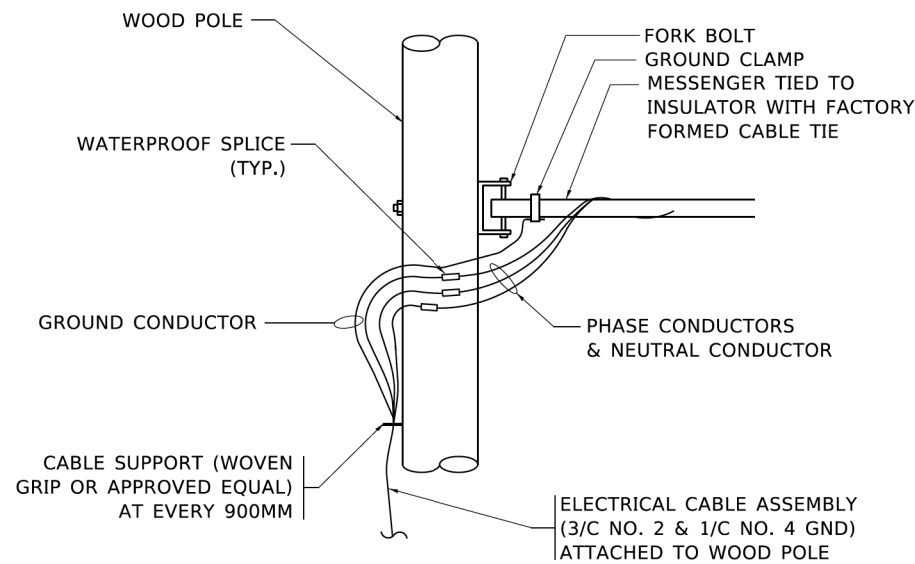
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHT POLE DETAILS**

SCALE: NONE SHEET 28 OF 29 SHEETS STA. TO STA.

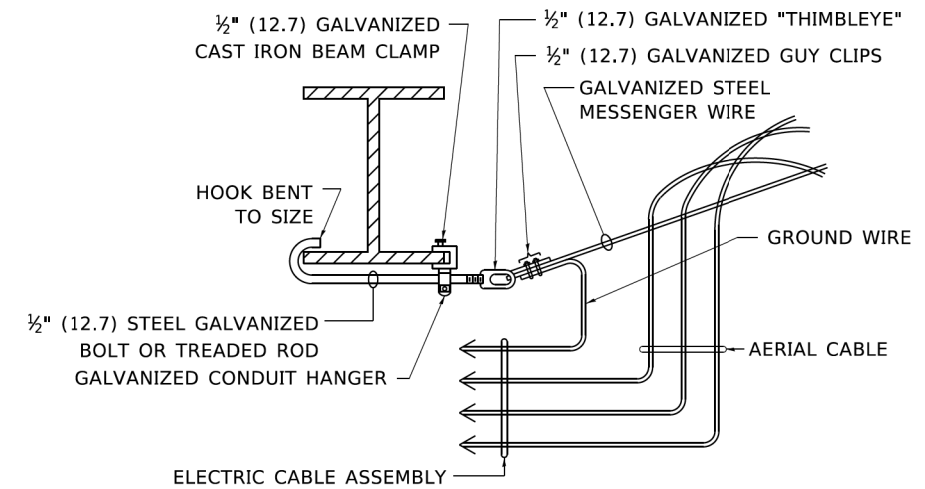
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>BE-800</b>		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				





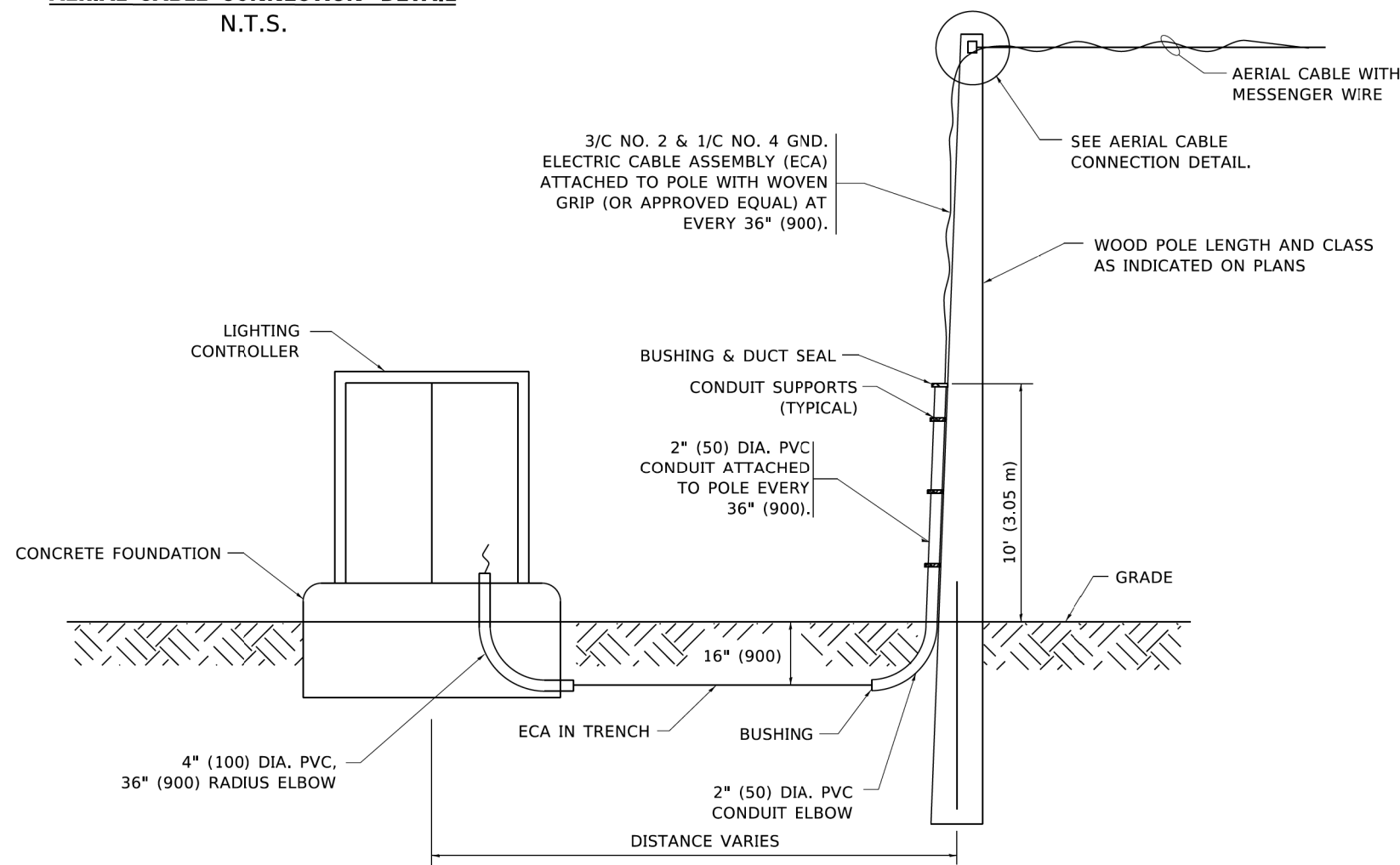
**AERIAL CABLE CONNECTION DETAIL**

N.T.S.



**AERIAL CABLE ATTACHED TO STRUCTURE**

NOT TO SCALE



**WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL**

N.T.S.

**NOTES:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

MODEL: Default; FILE: \\millec-prod\planroom\dot\illinois.gov\PIV\DOT\Documents\DOT\_Offices\District\_1\Projects\DH\5427231\CAD\DWG\CableSheet\ba801.dwg

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / ft.	CHECKED -	REVISED -
PLOT DATE = 4/19/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY AERIAL CABLE INSTALLATION**

SCALE: NONE SHEET 29 OF 29 SHEETS STA. TO STA.

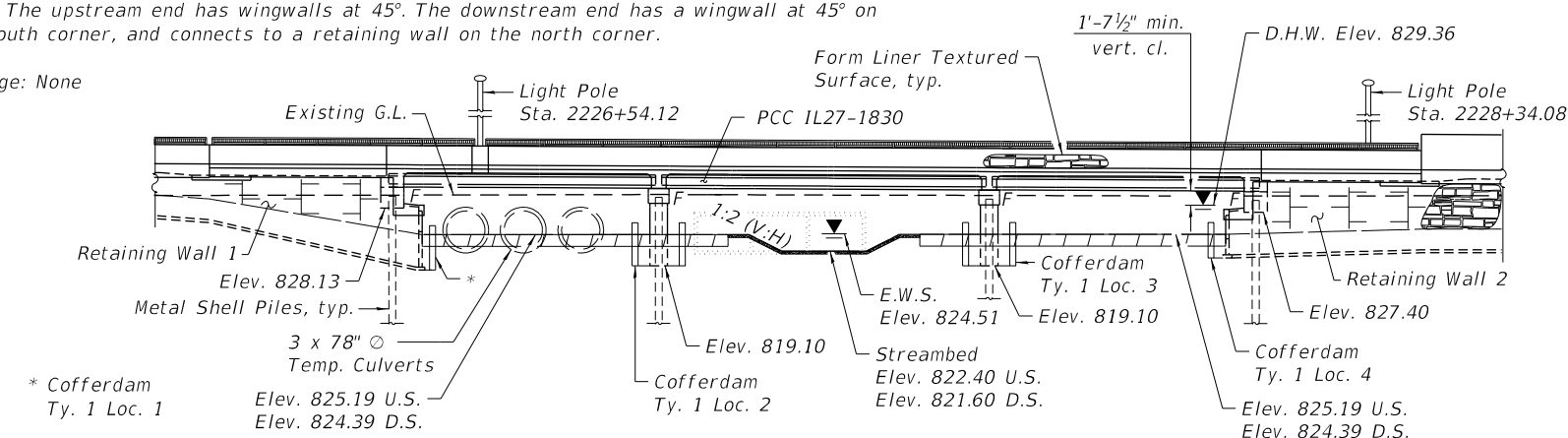
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	405
<b>BE-801</b>		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				

Bench Mark: BM #10. Chiseled Square on south corner of concrete headwall on west side of Randall Road over Woods Creek. Elev. 831.19.

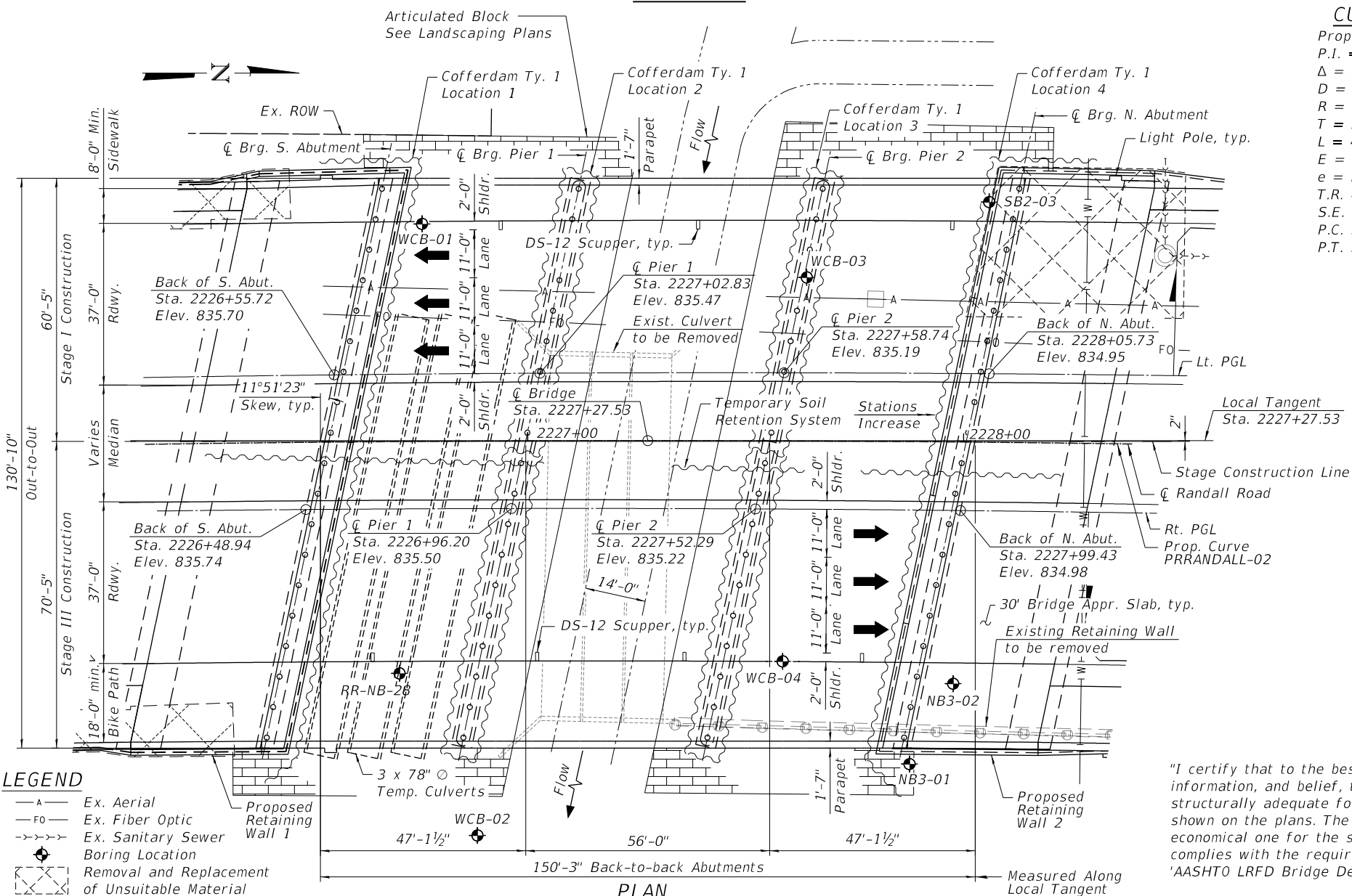
Traffic Control: Traffic to be maintained utilizing staged construction.

Existing Structure: S.N. 056-3204 originally built in 1969 and widened in 1996 as Section 96-00176-02-WR. The structure is a 3-cell 9'x6' cast-in-place box culvert 84'-9" long on a 0° skew. The upstream end has wingwalls at 45°. The downstream end has a wingwall at 45° on the south corner, and connects to a retaining wall on the north corner.

Salvage: None



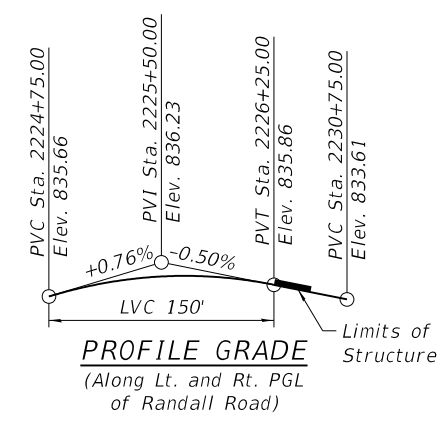
ELEVATION



PLAN

**LEGEND**

- A- Ex. Aerial
- FO- Ex. Fiber Optic
- SS- Ex. Sanitary Sewer
- Boring Location
- Removal and Replacement of Unsuitable Material



PROFILE GRADE  
(Along Lt. and Rt. PGL of Randall Road)

Note:  
Up to 1/4 inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.

**CURVE DATA**

Prop. Curve PRRANDALL-02  
 P.I. = Sta. 2226+89.26  
 $\Delta = 3^\circ 27' 07''$  (RT.)  
 $D = 0^\circ 42' 58''$   
 $R = 8,000.00'$   
 $T = 241.07'$   
 $L = 482.00'$   
 $E = 3.63'$   
 $e = NA$   
 $T.R. = NA$   
 $S.E. Run = NA$   
 $P.C. Sta. = 2224+48.19$   
 $P.T. Sta. = 2229+30.19$

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

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

**LOADING HL-93**

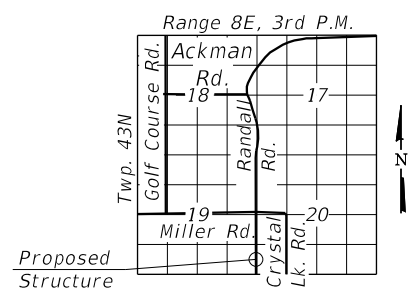
Allow 50#/sq. ft for future wearing surface.

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.081g  
 Design Spectral Acceleration at 0.2 sec. (SD5) = 0.141g  
 Soil Site Class = D

**SCUPPER TABLE**

Scupper	Station
NB #1	2226+64.00
NB #2	2227+02.00
NB #3	2227+37.00
NB #4	2227+77.00
SB #1	2226+94.00
SB #2	2227+39.00
SB #3	2227+97.00



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION**

**RANDALL ROAD OVER**

**WOODS CREEK**

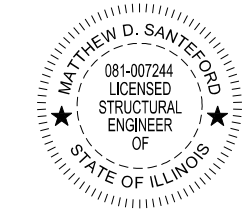
**F.A.P. RTE. 336**

**SECTION 06-00329-02-PW**

**MCHENRY COUNTY**

**STATION 2227+27.53**

**STRUCTURE NO. 056-3301**



MATTHEW D. SANTEFORD, P.E., S.E.  
 NO. 081-007244  
 EXP. DATE 11/30/2024

"I certify that to the best of my knowledge, information, and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current 'AASHTO LRFD Bridge Design Specifications'."

**TRANSYSTEMS**  
 1475 EAST WOODFIELD ROAD, SUITE 600  
 SCHAMBURG, ILLINOIS 60173  
 (847) 605-9600

USER NAME = Mibeening	DESIGNED - TJA	REVISED -
PLOT SCALE = 32.0000' / in.	DRAWN - TJA	REVISED -
PLOT DATE = 6/12/2024	CHECKED - MDS/WJC	REVISED -
	DATE - 6/12/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 056-3301

SHEET 51-01 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	406
CONTRACT NO. 61193				
ILLINOIS / FED. AID PROJECT				

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Slipforming of the parapets is not allowed.
4. Form Liner Textured Surface, Special shall be inset into the face of the barrier on the traffic side up to 1/2" deep and 1" wide.
5. Anti-Graffiti Coating shall be applied to all exposed faces of the parapet.
6. Staining shall be applied to areas of Form Liner Textured Surface and Form Liner Textured Surface, Special.

**INDEX OF SHEETS**

- S1-01 General Plan and Elevation
- S1-02 General Data
- S1-03 Foundation Layout
- S1-04 Removal Details Stage I
- S1-05 Removal Details Stage III
- S1-06 Temporary MSE and Soil Retention Details
- S1-07 Stage Construction Details 1
- S1-08 Stage Construction Details 2
- S1-09 Temporary Concrete Barrier
- S1-10 Top of Deck Elevations 1
- S1-11 Top of Deck Elevations 2
- S1-12 Top of Deck Elevations 3
- S1-13 Top of Deck Elevations 4
- S1-14 Top of Deck Elevations 5
- S1-15 Top of South Approach Slab Elevations
- S1-16 Top of North Approach Slab Elevations
- S1-17 Superstructure Plan
- S1-18 Superstructure Cross Section
- S1-19 Parapet Elevation
- S1-20 Parapet Details
- S1-21 Abutment Diaphragm
- S1-22 Pier Diaphragm
- S1-23 Superstructure Details & BOM
- S1-24 Approach Slab 1
- S1-25 Approach Slab 2
- S1-26 Approach Slab 3
- S1-27 Parapet Railing Details
- S1-28 Bridge Drainage System Details
- S1-29 Scupper Details
- S1-30 Framing Plan
- S1-31 PPC Beam Elevation Spans 1 and 3
- S1-32 PPC Beam Elevation Span 2
- S1-33 PPC Beam Details
- S1-34 Abutment Plan and Elevation 1
- S1-35 Abutment Plan and Elevation 2
- S1-36 Abutment Details
- S1-37 Pier Plan and Elevation 1
- S1-38 Pier Plan and Elevation 2
- S1-39 Pier Details
- S1-40 Metal Shell Pile Details
- S1-41 Bar Splicer Assembly Details
- S1-42 Boring Logs 1
- S1-43 Boring Logs 2
- S1-44 Boring Logs 3
- S1-45 Boring Logs 4
- S1-46 Boring Logs 5
- S1-47 Boring Logs 6

**BILL OF MATERIAL**

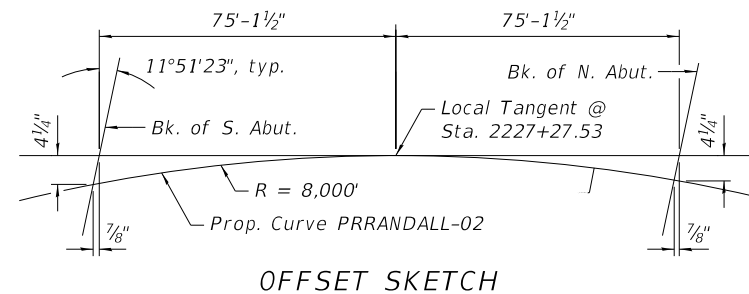
Item	Unit	Super	Sub	Total
Removal of Existing Structures No. 3	Each		1	1
Cofferdam Excavation	Cu. Yd.		652	652
Cofferdam (Type 1) (Location - 1)	Each		1	1
Cofferdam (Type 1) (Location - 2)	Each		1	1
Cofferdam (Type 1) (Location - 3)	Each		1	1
Cofferdam (Type 1) (Location - 4)	Each		1	1
Concrete Structures	Cu. Yd.		683.7	683.7
Concrete Superstructure	Cu. Yd.	382.4		382.4
Form Liner Textured Surface	Sq. Ft.	885		885
Protective Coat	Sq. Yd.	2,023		2,023
Concrete Superstructure (Approach Slab)	Cu. Yd.	368.8		368.8
Furnishing And Erecting Precast Prestressed Concrete Beams, IL27N	Foot	2,765		2,765
Reinforcement Bars, Epoxy Coated	Pound	329,810	56,780	386,590
Bar Splicers	Each	702	160	862
Furnishing Metal Shell Piles 16" X 0.375"	Foot		2,826	2,826
Driving Piles	Foot		2,826	2,826
Test Pile Metal Shells	Each		4	4
Name Plates	Each	1		1
Temporary Sheet Piling	Sq. Ft.		5,043	5043
Drainage System For Structures	L Sum	1		1
High Performance Concrete Superstructure	Cu. Yd.	691.2		691.2
Anti-Graffiti Coating	Sq. Ft.	3,661		3,661
Form Liner Textured Surface, Special	Sq. Ft.	937		937
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,620		1,620
Staining Concrete Structures	Sq. Ft.	1,822		1,822
Parapet Railing (Special)	Foot	417		417
Bridge Deck Concrete Sealer	Sq. Yd.	1,219		1,219
Drainage Scuppers, DS-12	Each	7		7
Diamond Grinding (Bridge Section)	Sq. Yd.	1,802		1,802

**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	816.59	815.53	815.94	816.24	5
Q200	813.93	813.43	813.89	813.45	
Design	828.13	815.53	815.94	827.40	
Check	828.13	813.43	813.89	827.40	

**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Existing Overtopping Elev. 830.63 @ Sta. 2230+00									
Drainage Area = 7.9 sq. mi. Proposed Overtopping Elev. 833.42 @ Sta. 2231+50									
	10	1,144	103	426	828.48	1.10	0.00	829.58	828.48
Design	50	2,088	103	542	829.36	1.35	0.69	830.71	830.05
Base	100	2,543	103	600	829.80	1.16	0.82	830.96	830.62
Scour Deign Check	200	3,016	103	642	830.12	1.02	0.99	831.14	831.11
Max. Calc.	500	3,708	103	700	830.57	0.75	1.52	831.32	832.09



STATION 2227+27.53  
 BUILT 20\_\_ BY  
 STATE OF ILLINOIS  
 F.A.P. RTE. 336  
 SEC. 06-00329-02-PW  
 LOADING HL-93  
 STRUCTURE NO. 056-3301

**NAME PLATE**  
 See Std. 515001

**OFFSET SKETCH**

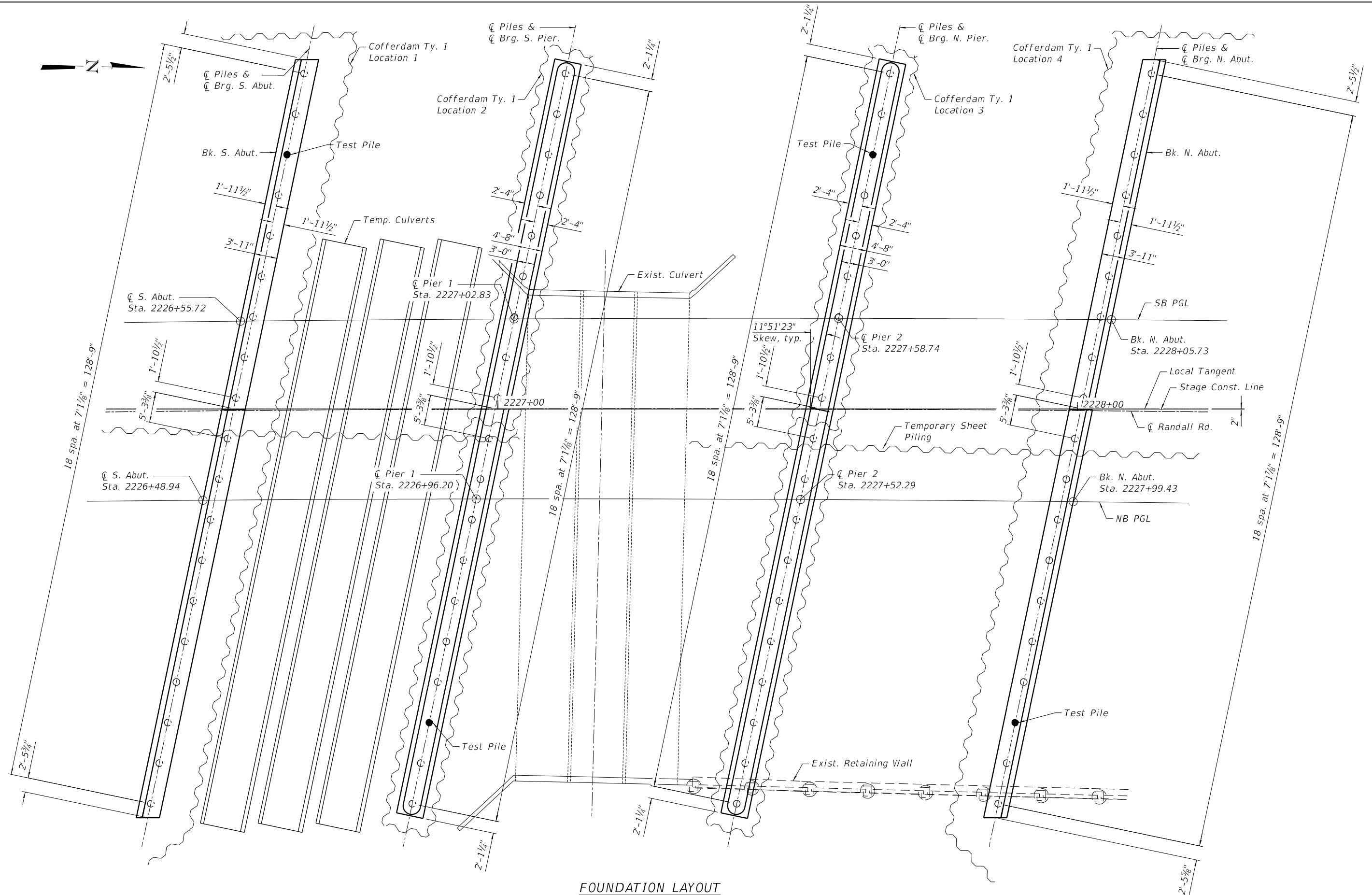
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
**STRUCTURE NO. 056-3301**

SHEET 51-02 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	407
CONTRACT NO. 61193				
ILLINOIS			FED. AID PROJECT	



**FOUNDATION LAYOUT**

USER NAME = Mibeening	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

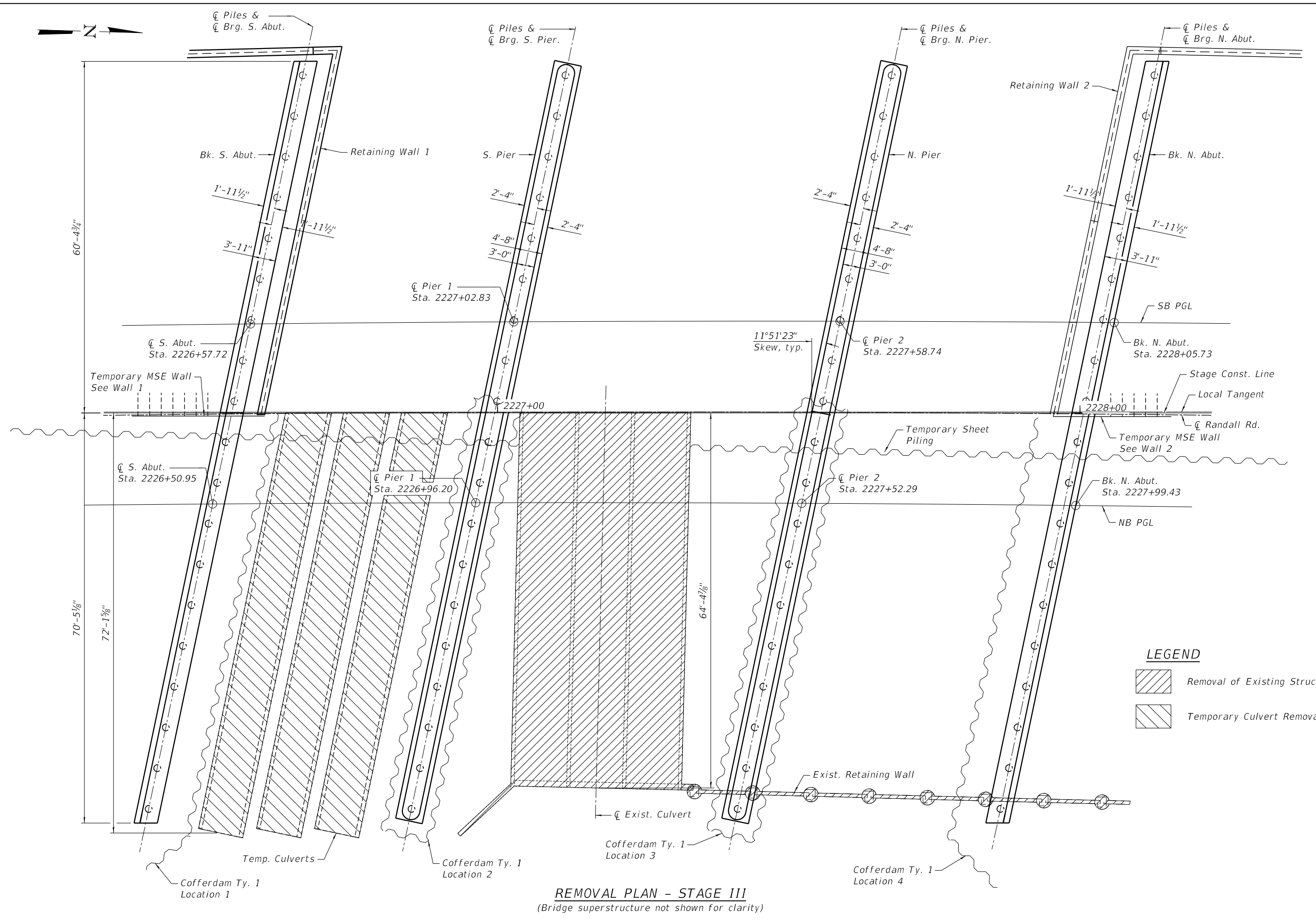
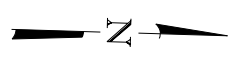
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FOUNDATION LAYOUT  
 STRUCTURE NO. 056-3301**

SHEET 51-03 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	408
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	





**LEGEND**

	Removal of Existing Structures
	Temporary Culvert Removal

**REMOVAL PLAN - STAGE III**  
(Bridge superstructure not shown for clarity)

**TRANSYSTEMS**  
1475 EAST WOODFIELD ROAD, SUITE 600  
SCHAUMBURG, ILLINOIS 60173  
(847) 605-9600

FILE NAME: p:\a\transys\corp\comtransys\corp\pwa\1\Documents\Projects\CH401 - Chicago\B40113006\140,000\44,000\44,000\44,000\Contract\_2\Sheet\_Files\33\_Structural\_Sheets\TSC\_Sheet33.dwg Contract: 056-3301 - Randall Road over Woods Creek\0563301-62\03-005-Removal.dwg

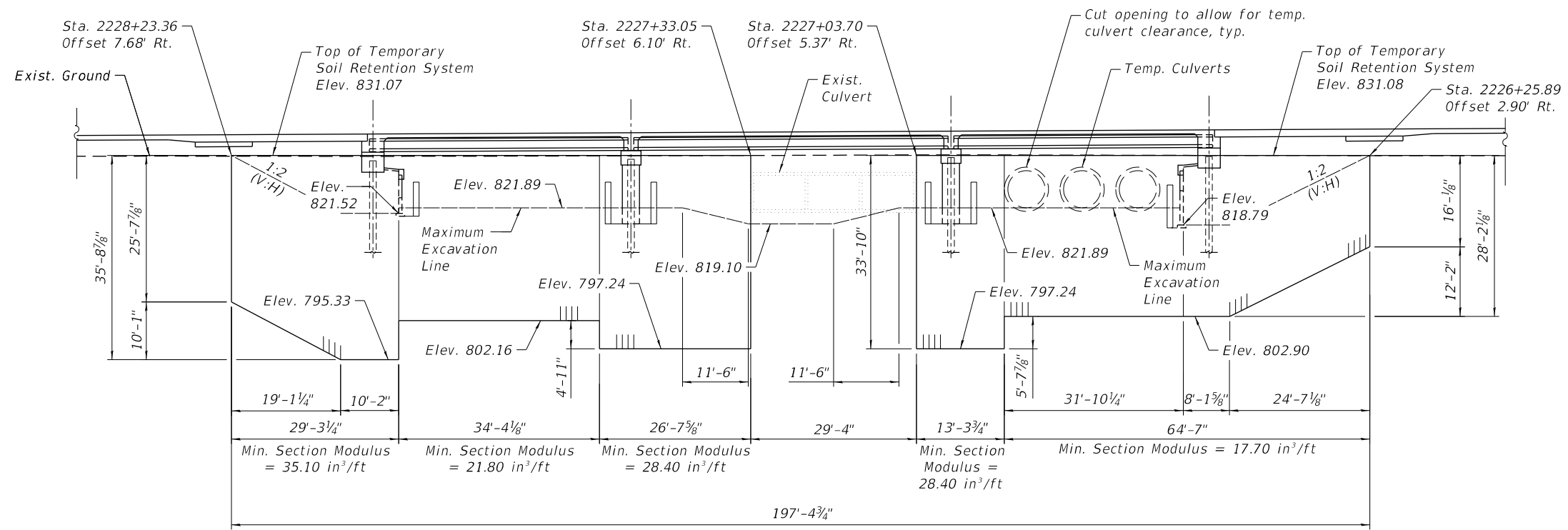
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PLOT SCALE = 16.0000' / in.	DRAWN - IS	REVISED -
PLOT DATE = 6/12/2024	CHECKED - TJA	REVISED -
	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL DETAILS STAGE III**  
**STRUCTURE NO. 056-3301**

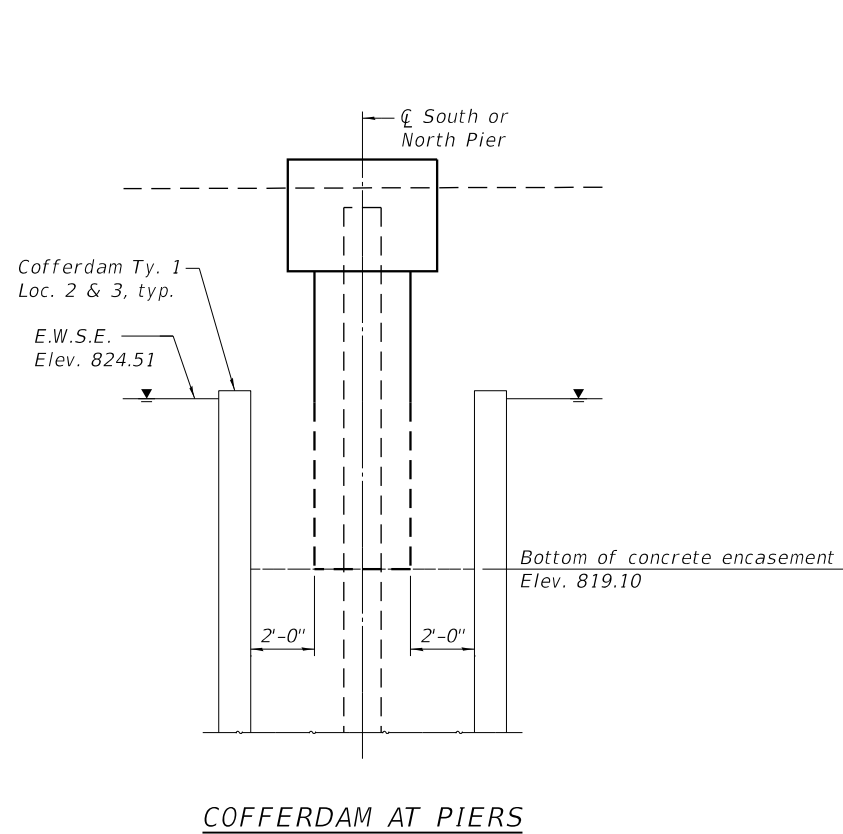
SHEET S1-05 OF S1-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		

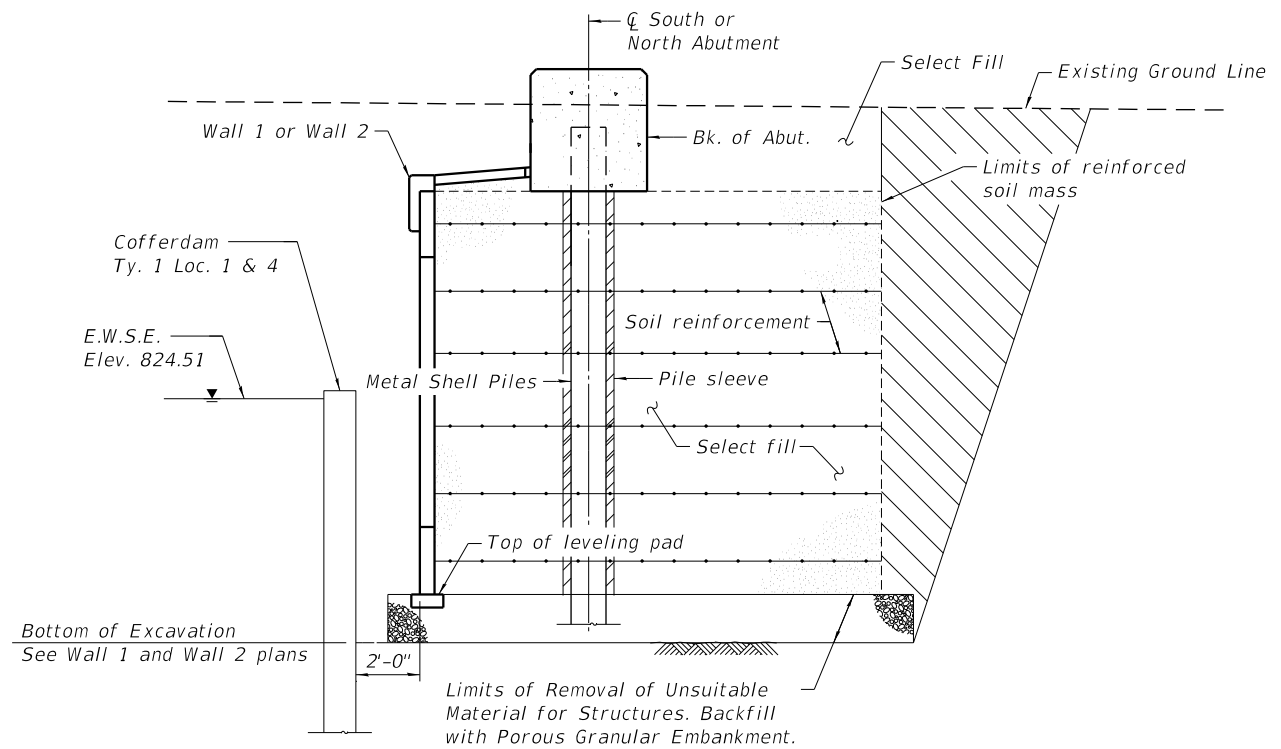


**STAGE I TEMPORARY SHEET PILING**  
(Looking East)

Note:  
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



**COFFERDAM AT PIERS**



**COFFERDAM AT ABUTMENTS**

USER NAME = Mibeening	DESIGNED - IS	REVISED -
DRAWN - IS	REVISIONS -	
PLOT SCALE = 24.0000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY MSE AND SOIL RETENTION DETAILS  
STRUCTURE NO. 056-3301**

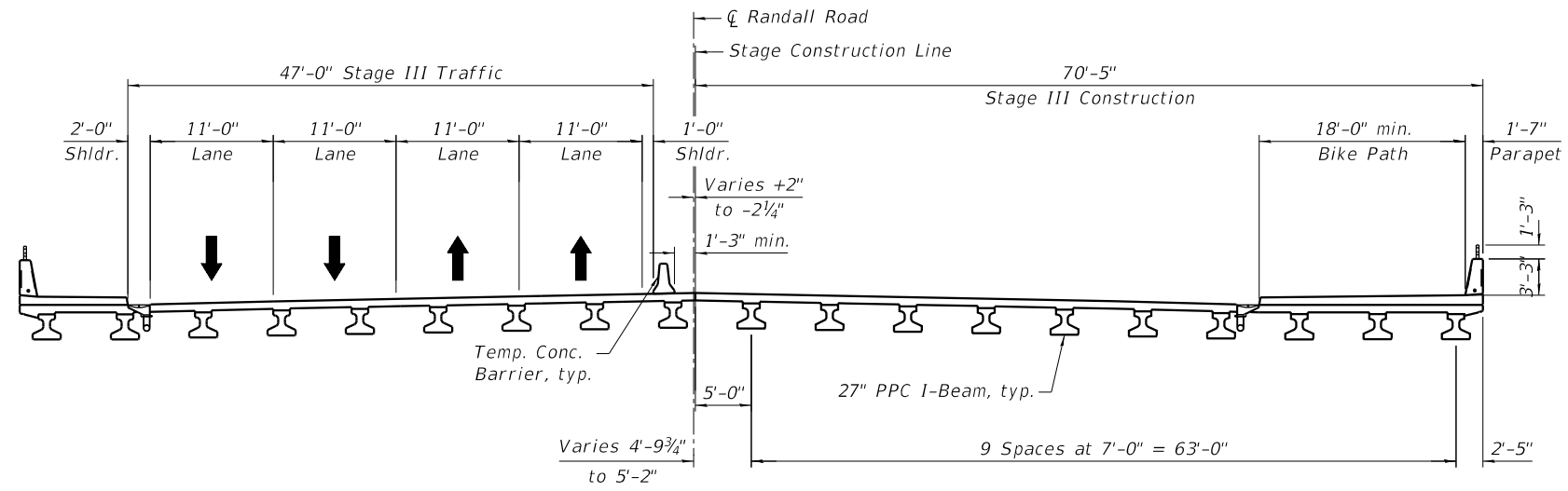
SHEET 51-06 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	411
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

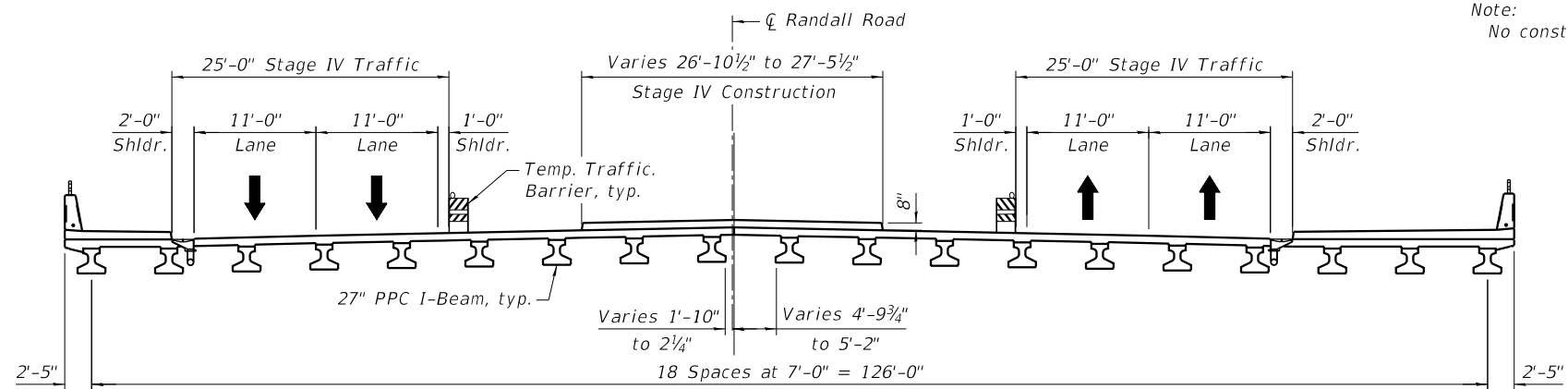




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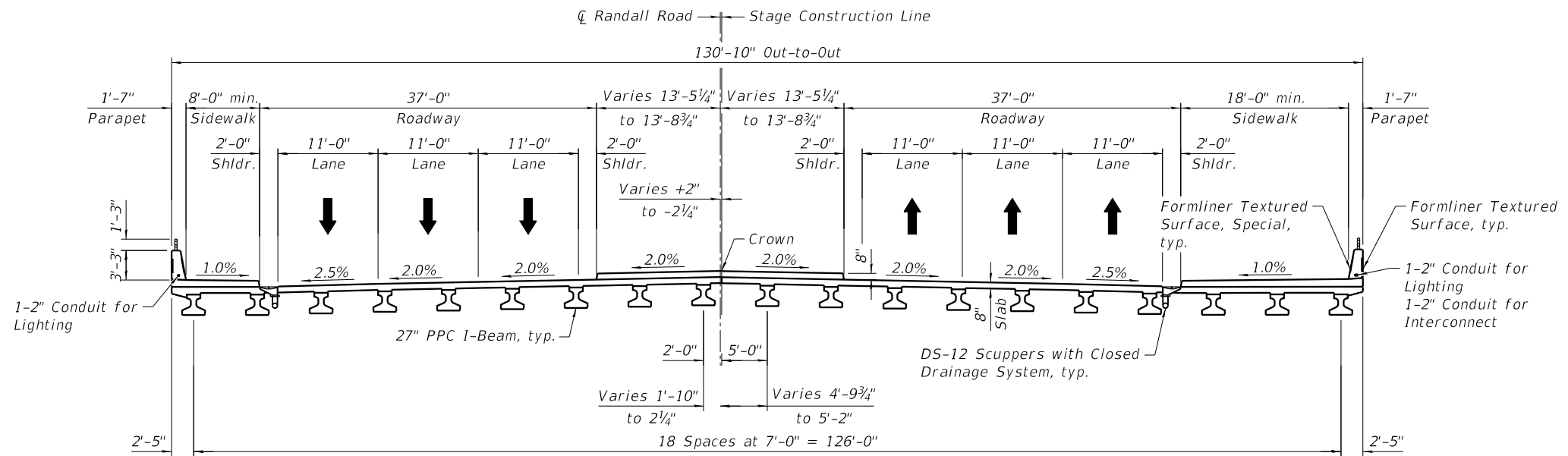


**STAGE III CONSTRUCTION**  
(Looking North)



**STAGE IV CONSTRUCTION**  
(Looking North)

Note:  
No construction or removal will occur during Stage II.



**FINAL CROSS SECTION**  
(Looking North)

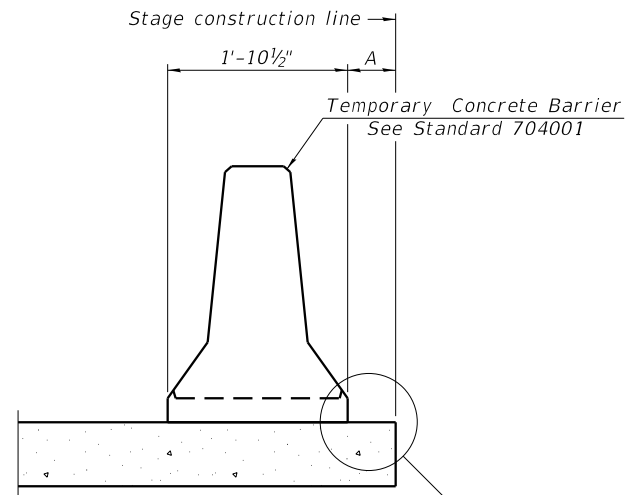
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	DRAWN - IS	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS 2  
 STRUCTURE NO. 056-3301**

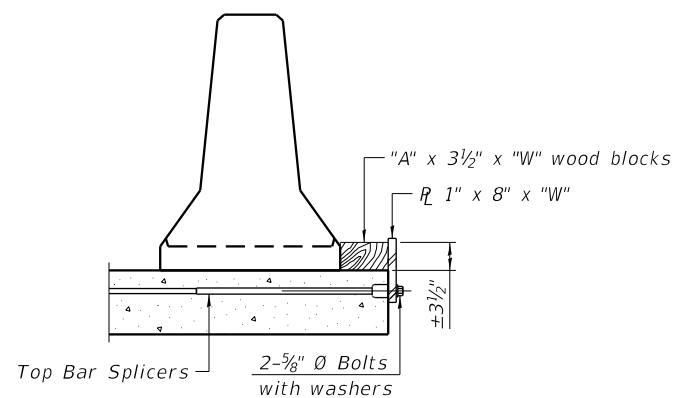
SHEET 51-08 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	413
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

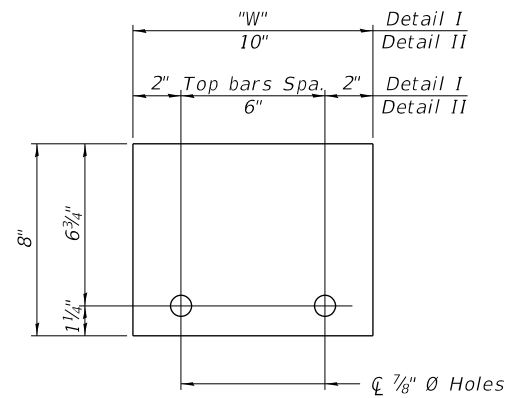
NEW SLAB OR NEW DECK BEAM  
SECTIONS THRU DECK



DETAIL I

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440



STEEL RETAINER R 1" x 8" x "W"  
 (Detail I)

Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate  $\bar{C}$  of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.

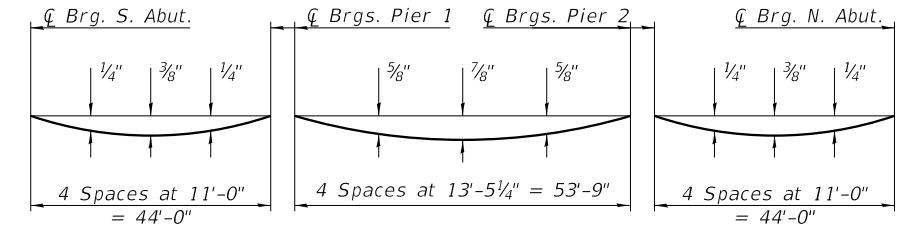
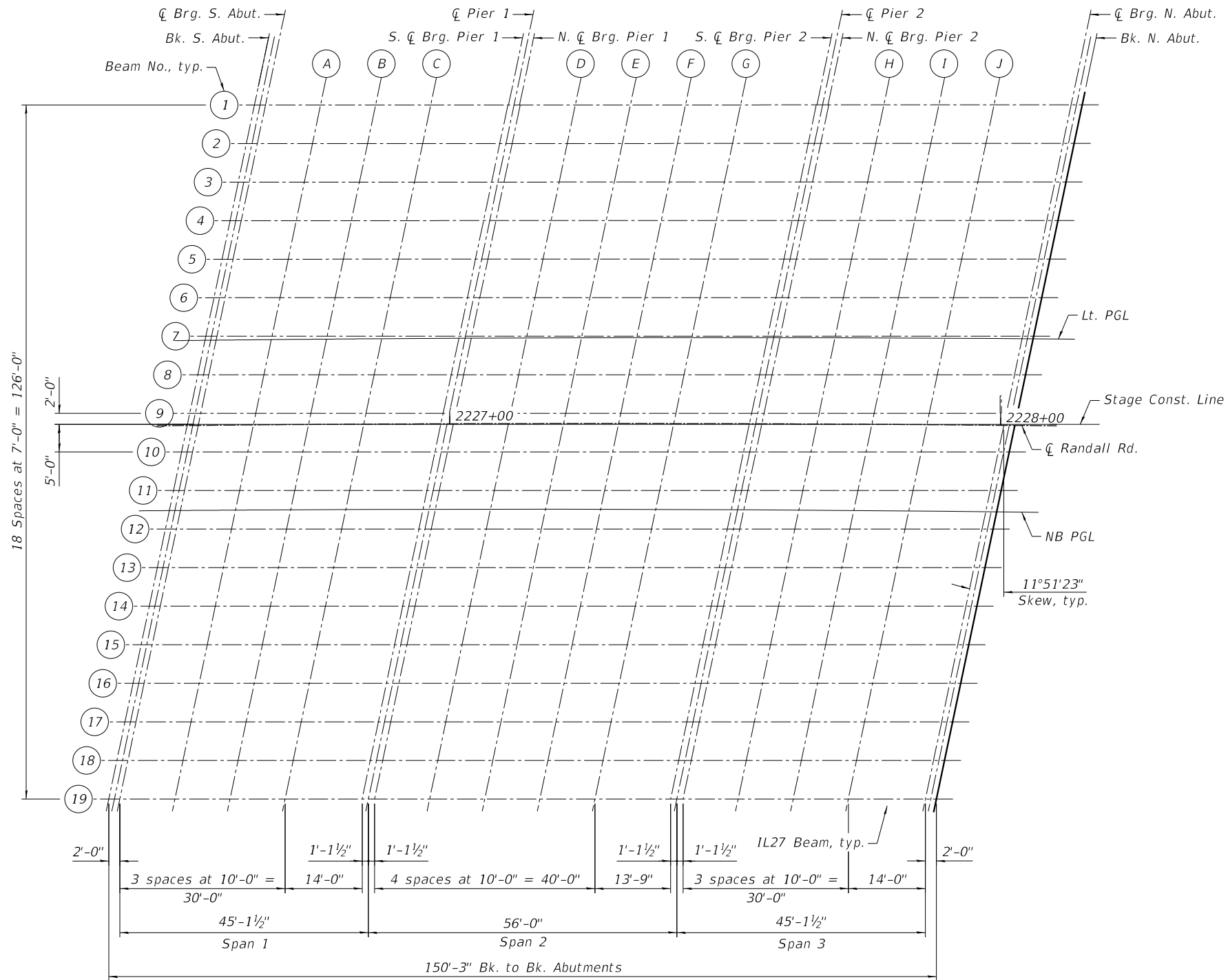
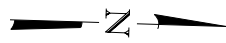
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	DRAWN - IS	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER**  
**STRUCTURE NO. 056-3301**

SHEET 51-09 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	414
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		

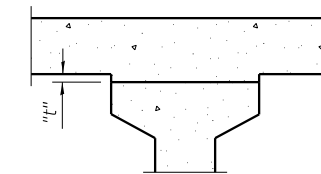


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete, excluding beams)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown in sheets S1-11 thru S1-14.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections and Grinding" shown on sheets S1-11 thru S1-14, minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flanges of beams.

The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on sheets S1-11 thru S1-14. For grinding the deck, see Special Provisions.

**FILLET HEIGHTS**

**TRANSYSTEMS**  
1475 EAST WOODFIELD ROAD, SUITE 600  
SCHAUMBURG, ILLINOIS 60173  
(847) 605-9600

FILE NAME: p:\b\p\h\m\101-ae-ct-transys\corp\pwa\1\Documents\Projects\CH401 - Chicago\p401\13006\140\000\44\000\44\000\44\000\Contract\_2\Sheet Files\33\_Structural\_Sheets\TSC\_Sheets\EN\_056-3301 - Randall Road over Woods Creek\0563301-62\93\01\0-D\DeckEL.dgn

USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 24.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE = 6/14/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS 1  
STRUCTURE NO. 056-3301**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	415
				CONTRACT NO. 61193
				ILLINOIS FED. AID PROJECT

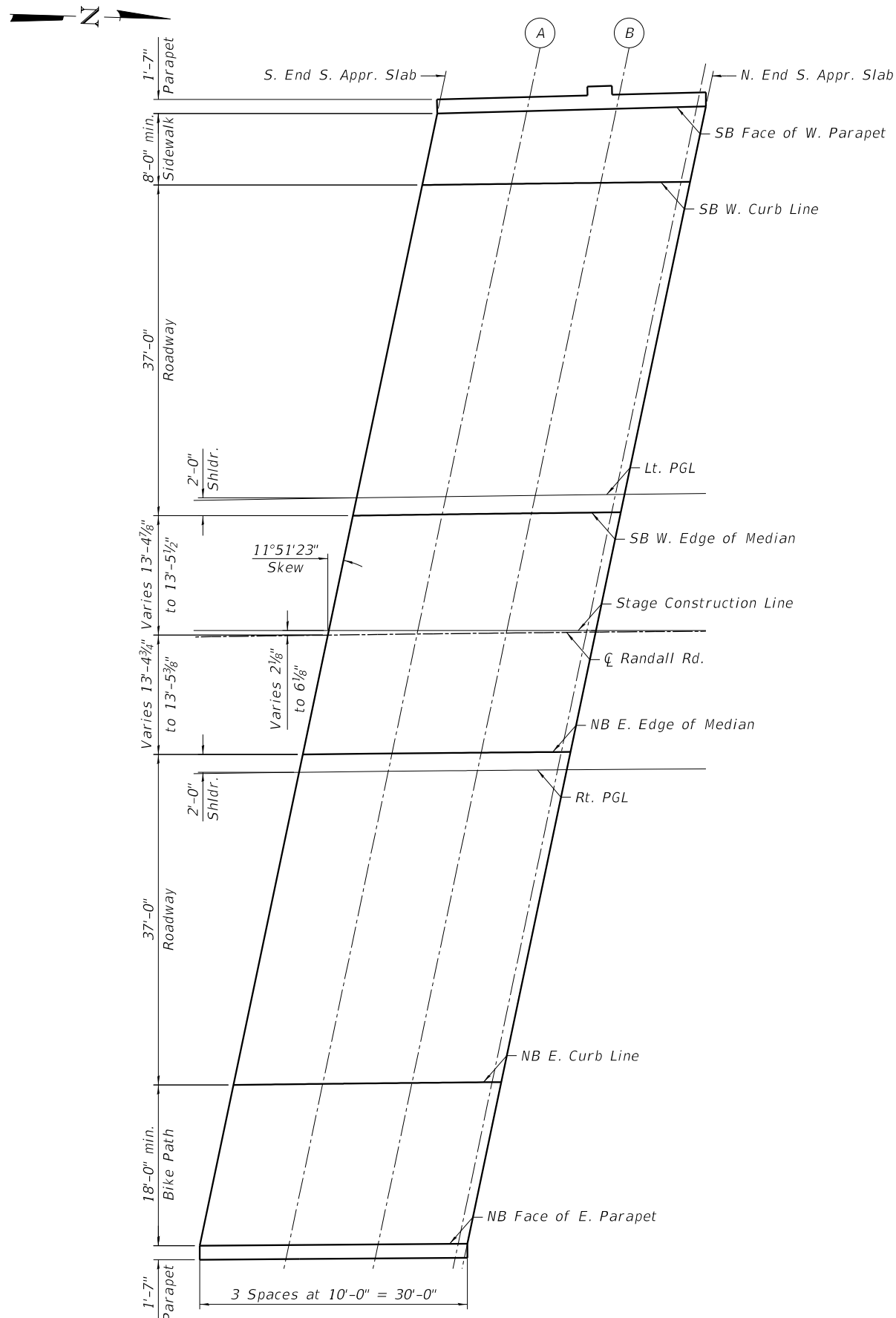
SHEET 51-10 OF 51-47 SHEETS











**SOUTH APPROACH SLAB PLAN**

**SB WEST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2226+34.48	-50.39	835.06
A	2226+44.44	-50.41	835.01
B	2226+54.41	-50.43	834.96
N. End S. Appr. Slab	2226+64.37	-50.45	834.91

**LT PGL**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2226+26.71	-15.37	835.87
A	2226+36.72	-15.39	835.82
B	2226+46.73	-15.41	835.77
N. End S. Appr. Slab	2226+56.74	-15.43	835.72

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2226+23.40	-0.51	836.18
A	2226+33.40	-0.39	836.13
B	2226+43.40	-0.28	836.09
N. End S. Appr. Slab	2226+53.39	-0.18	836.04

**RT PGL**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2226+19.84	15.36	835.90
A	2226+29.89	15.38	835.85
B	2226+39.93	15.40	835.80
N. End S. Appr. Slab	2226+49.96	15.42	835.75

**NB EAST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2226+11.96	50.34	835.17
A	2226+22.04	50.36	835.13
B	2226+32.13	50.38	835.08
N. End S. Appr. Slab	2226+42.21	50.40	835.03

USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 16.0000' / in.	DRAWN - IS	REVISED -
PLOT DATE = 6/12/2024	CHECKED - TJA	REVISED -
	DATE - 6/14/2024	REVISED -

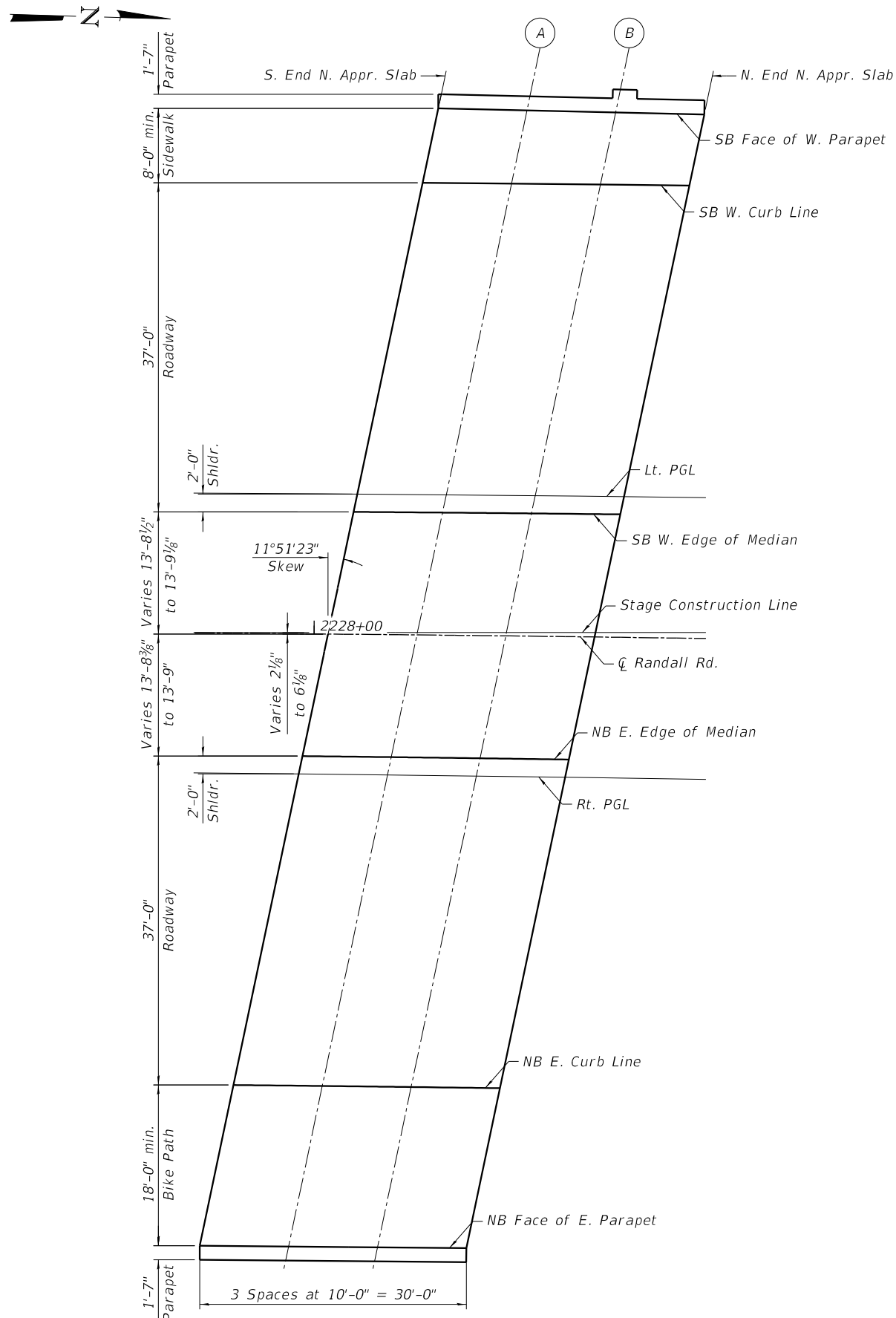
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 056-3301**

SHEET 51-15 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	420
CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	





**NORTH APPROACH SLAB PLAN**

**SB WEST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2228+11.67	-50.75	834.18
A	2228+21.58	-50.77	834.13
B	2228+31.50	-50.80	834.08
N. End S. Appr. Slab	2228+41.41	-50.82	834.03

**LT PGL**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2228+04.71	-15.74	834.98
A	2228+14.67	-15.76	834.93
B	2228+24.64	-15.78	834.88
N. End S. Appr. Slab	2228+34.59	-15.80	834.83

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2228+01.60	-0.18	835.30
A	2228+11.60	-0.28	835.25
B	2228+21.60	-0.39	835.20
N. End S. Appr. Slab	2228+31.60	-0.51	835.15

**RT PGL**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2227+98.41	15.73	835.01
A	2228+08.40	15.75	834.96
B	2228+18.40	15.77	834.91
N. End S. Appr. Slab	2228+28.39	15.79	834.86

**NB EAST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Slab	2227+91.34	50.71	834.28
A	2228+01.38	50.73	834.23
B	2228+11.42	50.75	834.18
N. End S. Appr. Slab	2228+21.46	50.77	834.13

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DRAWN - IS	REVISED -	
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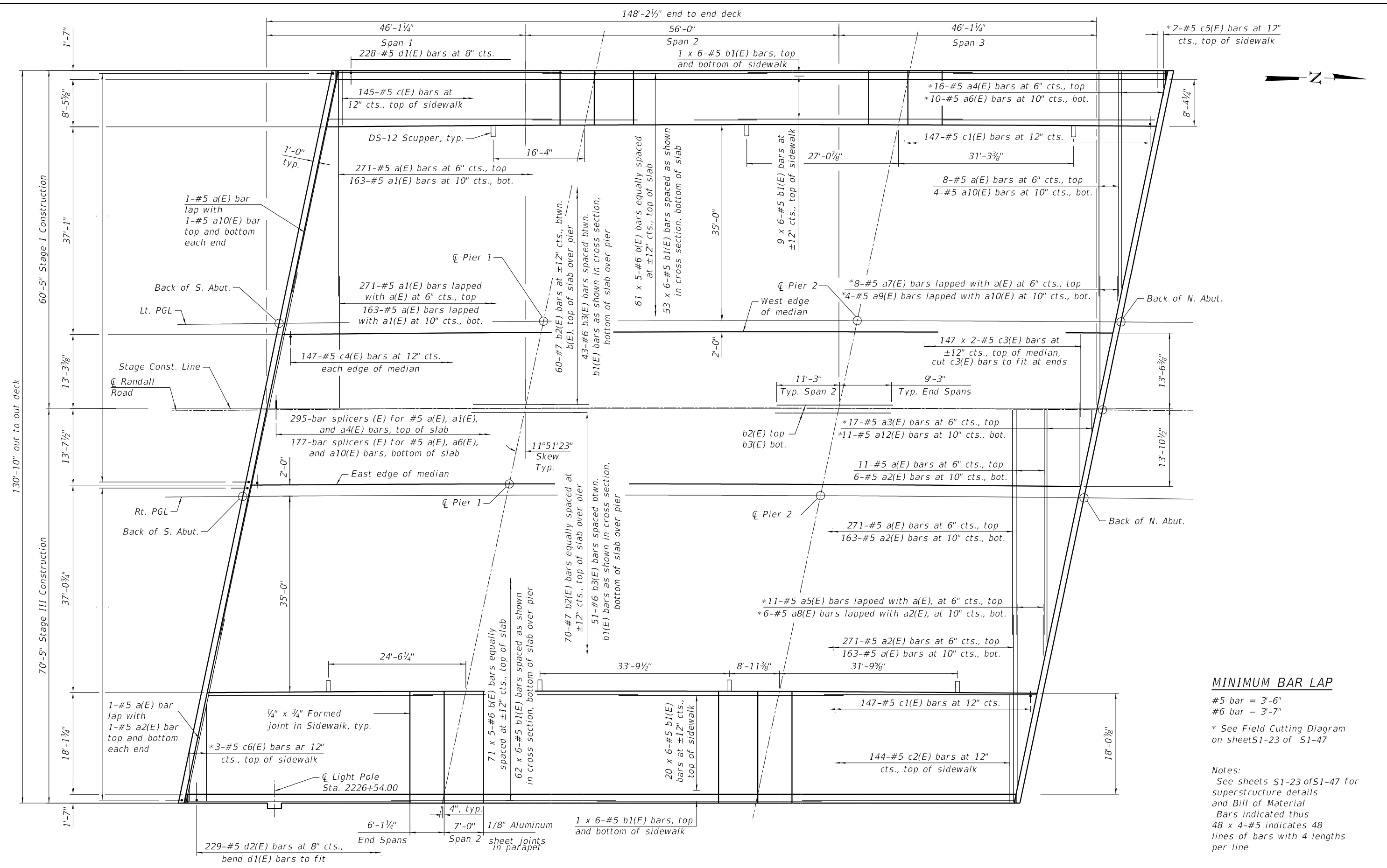
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 056-3301**

SHEET 51-16 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	421
			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		

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**MINIMUM BAR LAP**

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

\* See Field Cutting Diagram on sheets S1-23 of S1-47

Notes:  
 See sheets S1-23 of S1-47 for superstructure details and Bill of Material Bars indicated thus 48 x 4-#5 indicates 48 lines of bars with 4 lengths per line

**PLAN**

USER NAME = Mibeening	DESIGNED - IS	REVISED -
DRAWN - SN	REVISED -	
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

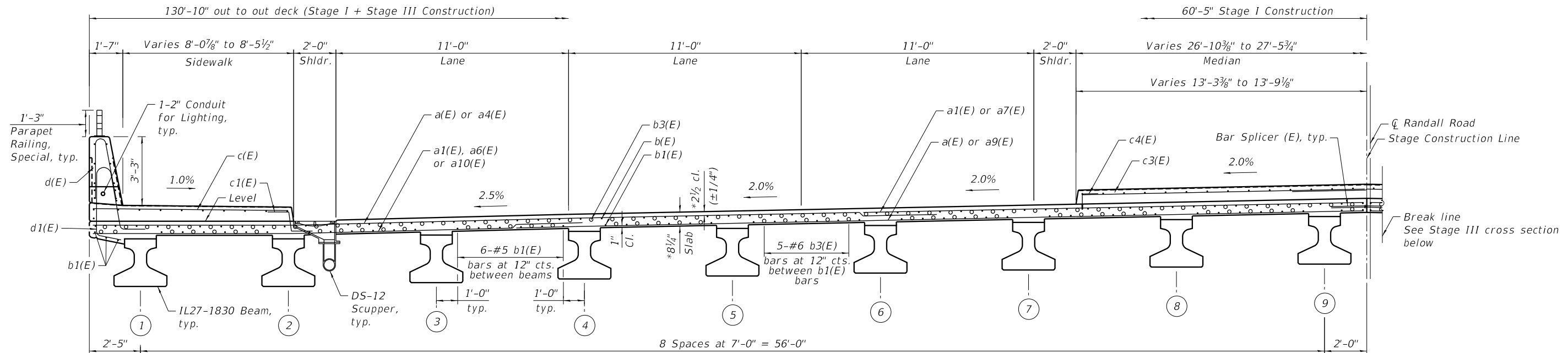
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DECK PLAN  
 STRUCTURE NO. 056-3301**

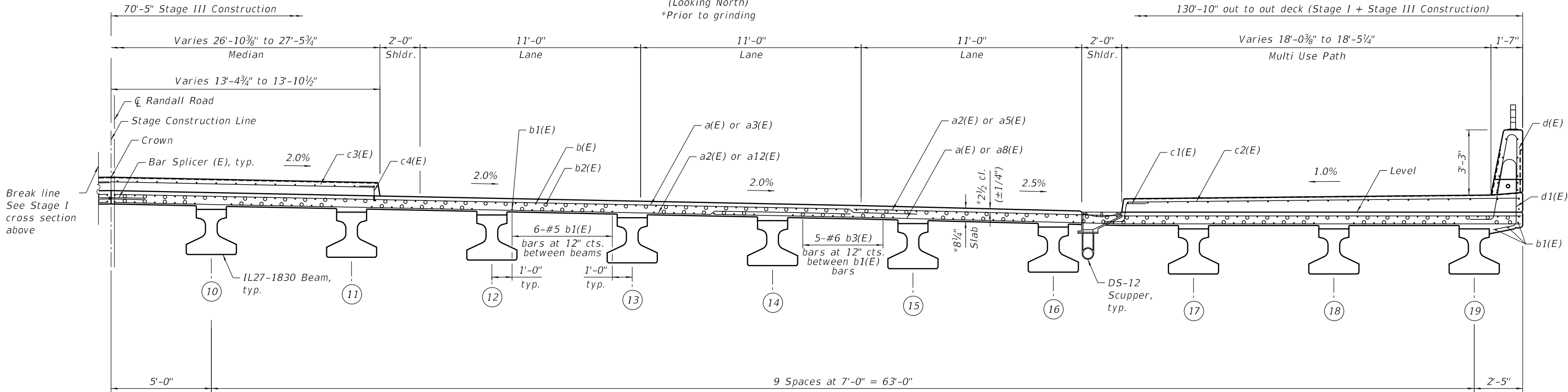
SHEET S1-17 OF S1-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

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**CROSS SECTION - Stage I Construction**  
 (Looking North)  
 \*Prior to grinding



**CROSS SECTION - Stage III Construction**  
 (Looking North)  
 \*Prior to grinding

USER NAME = Mibeening	DESIGNED - IS	REVISED -
	DRAWN - SN	REVISED -
PLOT SCALE = 5.0000' / in.	CHECKED - TJA	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

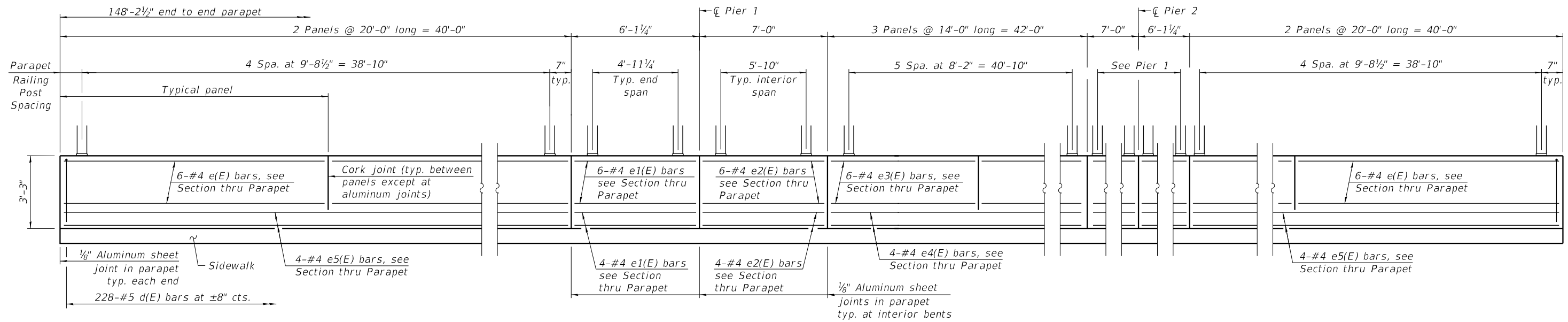
**DECK SECTION  
 STRUCTURE NO. 056-3301**

SHEET 51-18 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	423
CONTRACT NO. 61193				

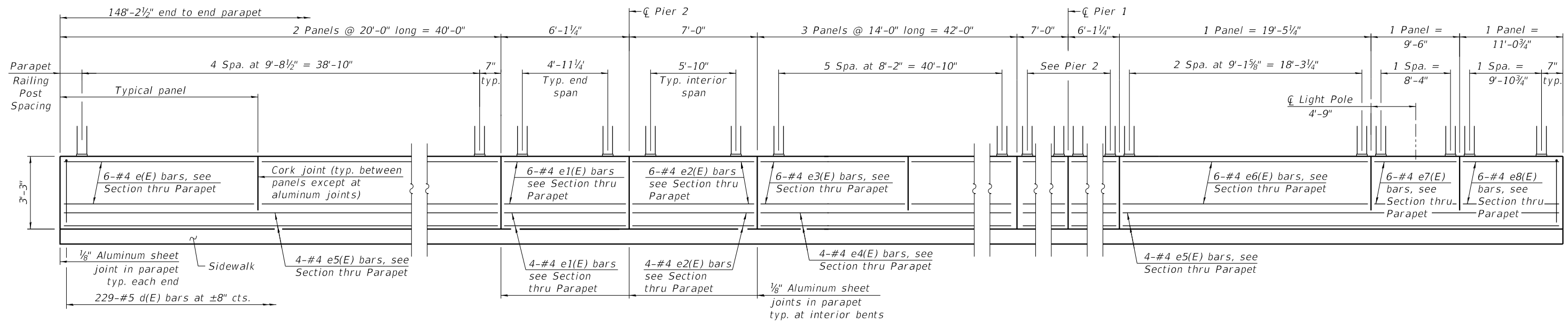
ILLINOIS FED. AID PROJECT

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 PROJECT: 101-113006  
 CONTRACT: 06-00329-02-PW  
 SHEET: 51-19 OF 51-47 SHEETS



**INSIDE ELEVATION OF WEST PARAPET**

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.



**INSIDE ELEVATION OF EAST PARAPET**

USER NAME = Mibeening	DESIGNED - IS	REVISED -
	DRAWN - SN	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PARAPET ELEVATION  
 STRUCTURE NO. 056-3301**

SHEET 51-19 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	424
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

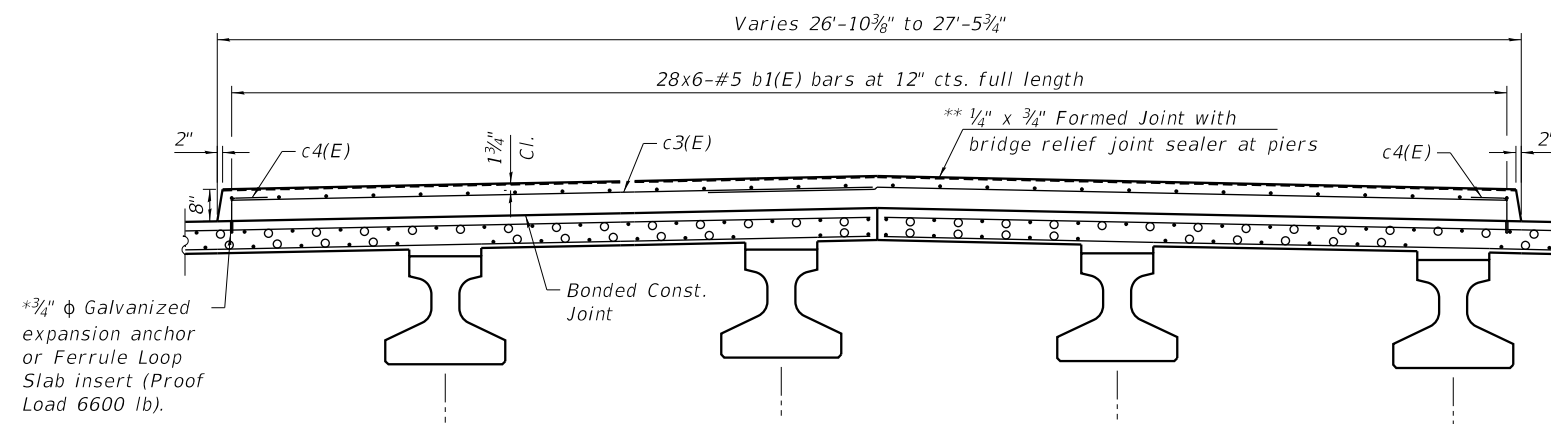
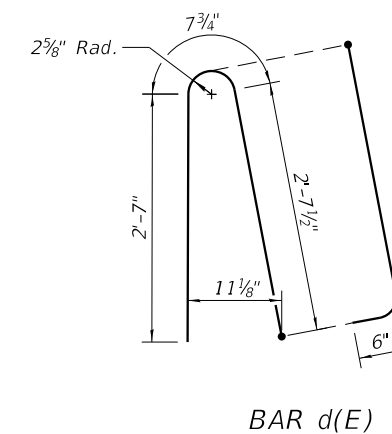






**SUPERSTRUCTURE  
BILL OF MATERIAL**

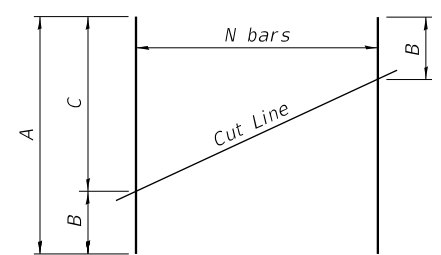
Bar	No.	Size	Length	Shape
a(E)	895	#5	40'-2"	—
a1(E)	434	#5	23'-6"	—
a2(E)	444	#5	33'-6"	—
a3(E)	17	#5	44'-11"	—
a4(E)	16	#5	41'-7"	—
a5(E)	11	#5	38'-6"	—
a6(E)	10	#5	44'-9"	—
a7(E)	8	#5	25'-7"	—
a8(E)	6	#5	39'-3"	—
a9(E)	4	#5	41'-9"	—
a10(E)	8	#5	32'-11"	—
a11(E)	112	#5	2'-0"	—
a12(E)	11	#5	45'-0"	—
b(E)	660	#6	32'-6"	—
b1(E)	1056	#5	27'-7"	—
b2(E)	260	#7	20'-6"	—
b3(E)	188	#6	20'-6"	—
c(E)	145	#5	9'-2"	—
c1(E)	294	#5	2'-10"	—
c2(E)	144	#5	19'-2"	—
c3(E)	294	#5	15'-2"	—
c4(E)	294	#5	1'-6"	—
c5(E)	2	#5	9'-11"	—
c6(E)	3	#5	20'-8"	—
d(E)	457	#5	6'-5"	—
d1(E)	228	#5	8'-10"	—
d2(E)	229	#5	9'-0"	—
d3(E)	3	#6	4'-10"	—
d4(E)	6	#6	8'-11"	—
e(E)	36	#4	19'-8"	—
e1(E)	40	#4	5'-9"	—
e2(E)	40	#4	6'-8"	—
e3(E)	36	#4	13'-8"	—
e4(E)	8	#4	41'-8"	—
e5(E)	16	#4	39'-8"	—
e6(E)	6	#4	19'-1"	—
e7(E)	6	#4	9'-2"	—
e8(E)	6	#4	10'-8"	—
m10(E)	16	#6	32'-6"	—
m11(E)	72	#6	5'-10"	—
m12(E)	12	#6	1'-8"	—
m13(E)	36	#6	4'-2"	—
m14(E)	6	#6	0'-10"	—
m15(E)	76	#5	4'-0"	—
m16(E)	16	#6	37'-8"	—
m20(E)	76	#6	4'-2"	—
m21(E)	152	#6	5'-10"	—
m22(E)	76	#5	4'-0"	—
s10(E)	188	#5	8'-6"	—
s11(E)	188	#5	9'-1"	—
s12(E)	152	#5	7'-9"	—
s20(E)	180	#5	11'-0"	—
s21(E)	152	#5	9'-3"	—
Reinforcement Bars, Epoxy Coated		Pounds	179,900	
Concrete Superstructure		Cu. Yd.	266.4	
Bridge Deck Grooving (Longitudinal)		Sq. Yd.	1,620	
Diamond Grinding (Bridge Section)		Sq. Yd.	1,802	
Protective Coat		Sq. Yd.	1,090	
High Performance Concrete Superstructure Bridge Deck Concrete Sealer		Cu. Yd.	691.2	
		Sq. Yd.	1,219	



**SECTION THRU MEDIAN**

\*3/4" φ Galvanized expansion anchor or Ferrule Loop Slab insert (Proof Load 6600 lb).

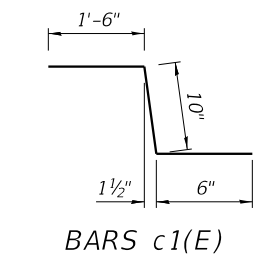
\* The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.  
\*\* Full width along joint - backer rod not required.



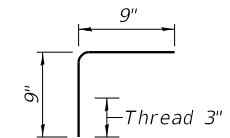
**FIELD CUTTING DIAGRAM**

Order a3(E) thru a9(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

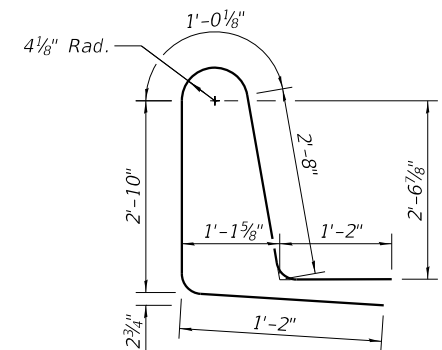
Bar	A	B	C	N
a3(E)	44'-11"	3'-5"	41'-6"	17
a4(E)	41'-7"	2'-11"	38'-8"	16
a5(E)	38'-6"	7'-4"	31'-2"	11
a6(E)	44'-9"	4'-6"	40'-3"	10
a7(E)	25'-7"	4'-6"	21'-1"	8
a8(E)	52'-8"	16'-5"	36'-3"	6
a9(E)	41'-9"	14'-11"	26'-10"	4
a12(E)	45'-0"	2'-8"	42'-4"	11
c5(E)	9'-11"	2'-7"	7'-4"	2
c6(E)	20'-8"	5'-11"	14'-9"	3



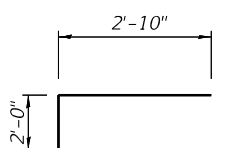
**BARS c1(E)**



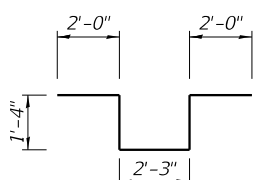
**BAR c4(E)**



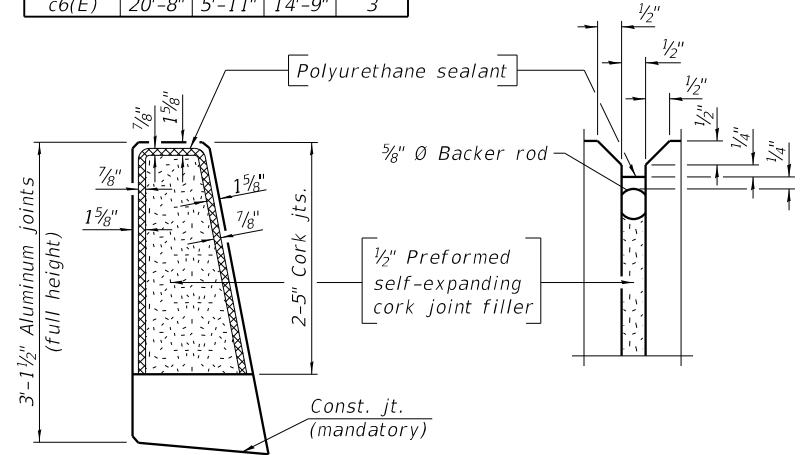
**BAR d1(E)**



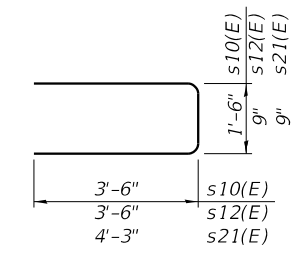
**BARS d3(E)**



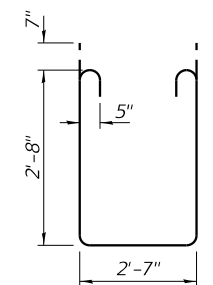
**BARS d4(E)**



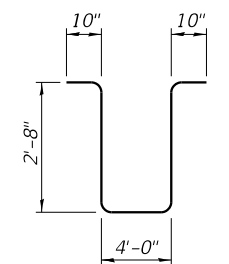
**PARAPET JOINT DETAILS**



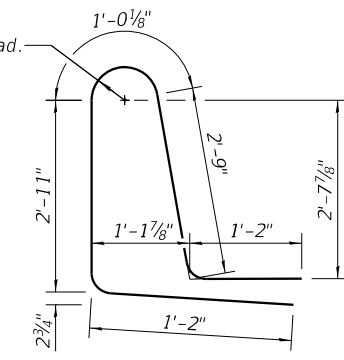
**BARS s10(E), s12(E) & s21(E)**



**BAR s11(E)**



**BARS s20(E)**



**BAR d2(E)**

Notes:  
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

**TRANSYSTEMS**  
1475 EAST WOODFIELD ROAD, SUITE 600  
SCHAMBURG, ILLINOIS 60173  
(847) 605-9600

USER NAME = Mibeening	DESIGNED - IS	REVISED -
	DRAWN - SN	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

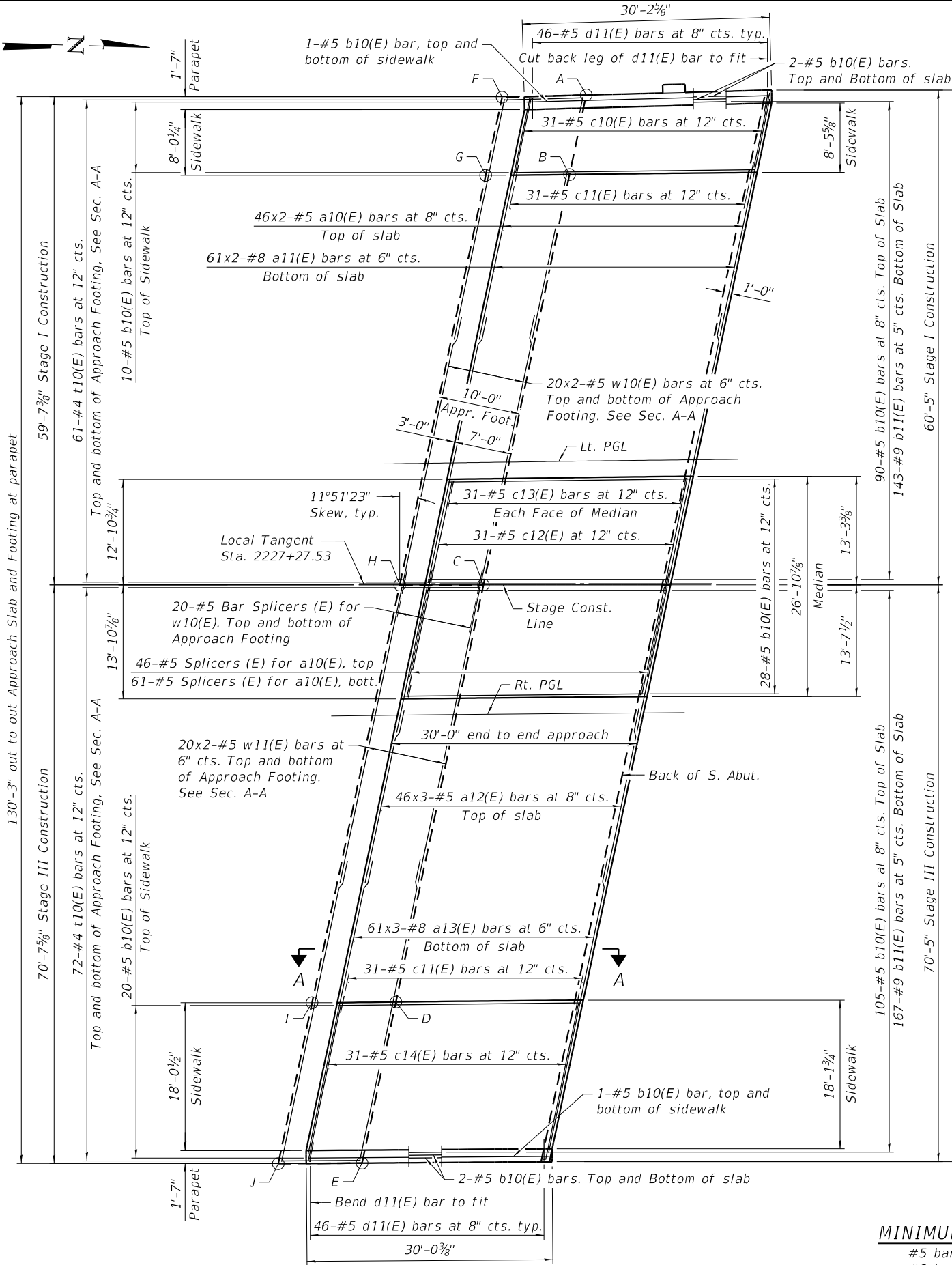
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 056-3301**

SHEET 51-23 OF 51-47 SHEETS

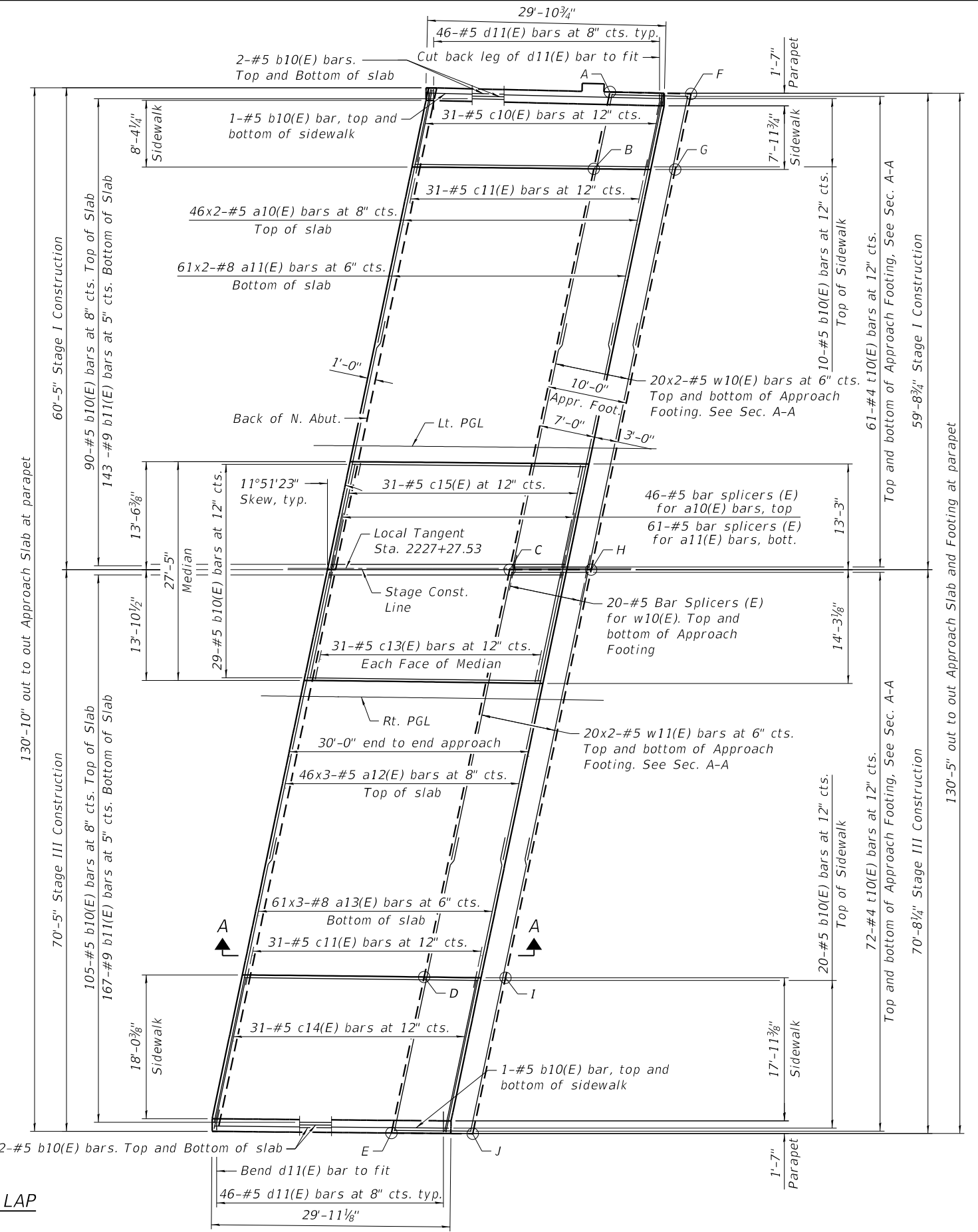
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	428
				CONTRACT NO. 61193
				ILLINOIS FED. AID PROJECT





**SOUTH APPROACH PLAN**

**MINIMUM BAR LAP**  
#5 bar = 3'-2"  
#8 bar = 4'-9"



**NORTH APPROACH PLAN**

USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 16.0000' / 1"	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

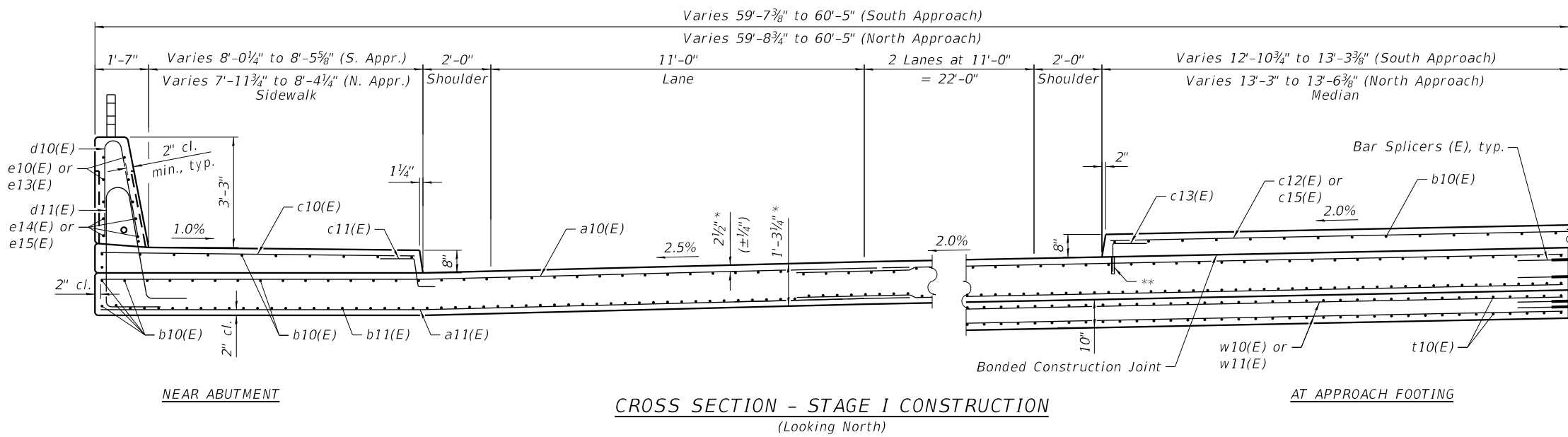
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB 1  
STRUCTURE NO. 056-3301**

SHEET 51-24 OF 51-47 SHEETS

F.A.P RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 429
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61193	

FILE NAME: p:\bldg\mimo01.pcb\transyscorp\mntnstrnsyscorp\paw\Documents\Projects\CH401 - Chicago\401\130061\140\_0000\44\_0000\44\_0000\44\_0000\44\_0000\44\_0000\Contract 215Sheet Files\23\_Structural\_Sheets\TSC\_Sheets\EN\_056-3301 - Randell Road over Woods Creek\0563301-621032025-Appr-Slab2.dwg

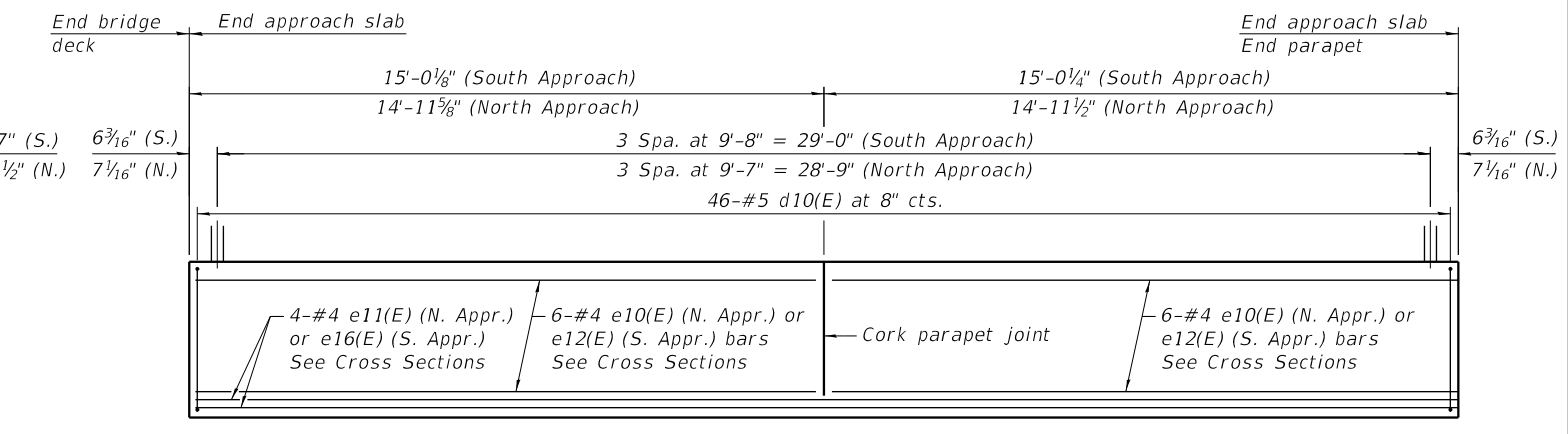
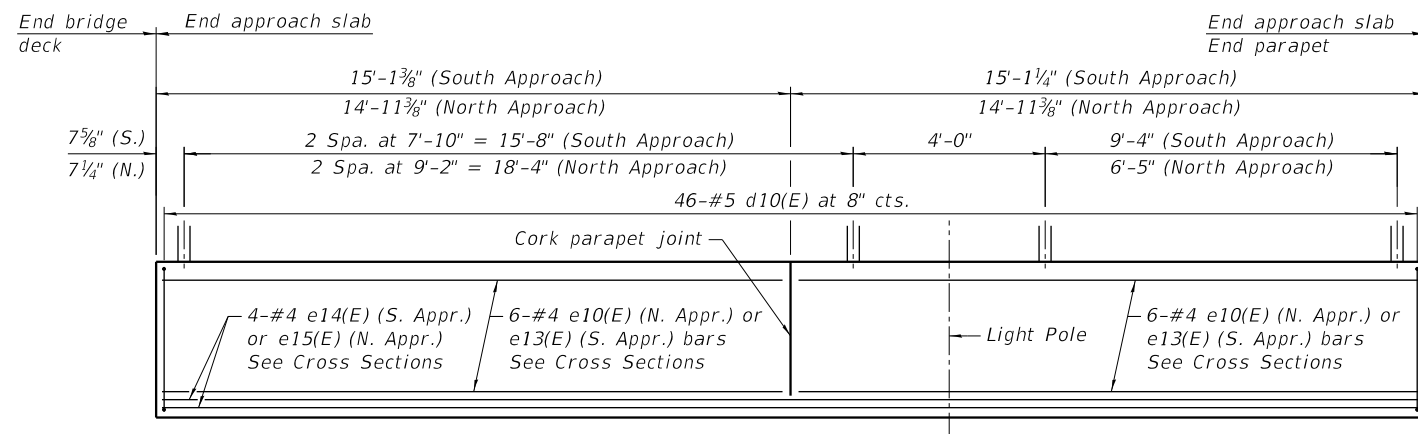
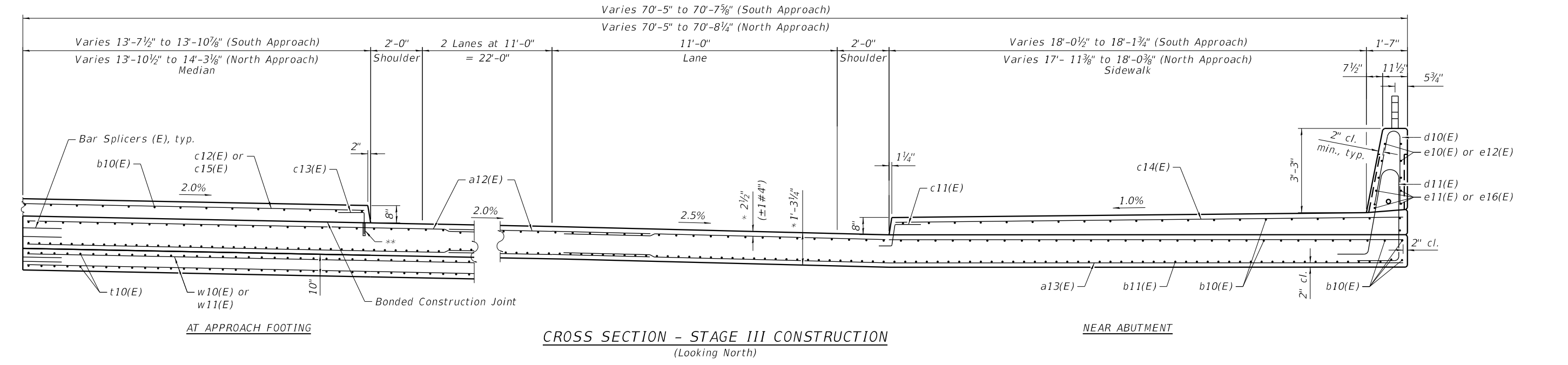


\* Prior to grinding

\*\* 3/4" ø Galvanized expansion anchor or Ferrule Loop Slab insert (Proof Load 6600 lb). The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTINGS

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	833.75	832.91	832.78	831.95
B	833.76	832.92	832.79	831.96
C	834.88	834.04	833.92	833.08
D	833.87	833.03	832.89	832.06
E	833.89	833.05	832.91	832.08
F	833.80	832.96	832.73	831.90
G	833.81	832.98	832.74	831.91
H	834.92	834.09	833.86	833.03
I	833.91	833.08	832.84	832.01
J	833.93	833.09	832.86	832.03



USER NAME = Mibeening	DESIGNED - IS	REVISED -
DRAWN - IS	REVISIONS -	
PLOT SCALE = 4,000' / in.	CHECKED - TJA	REVISIONS -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISIONS -

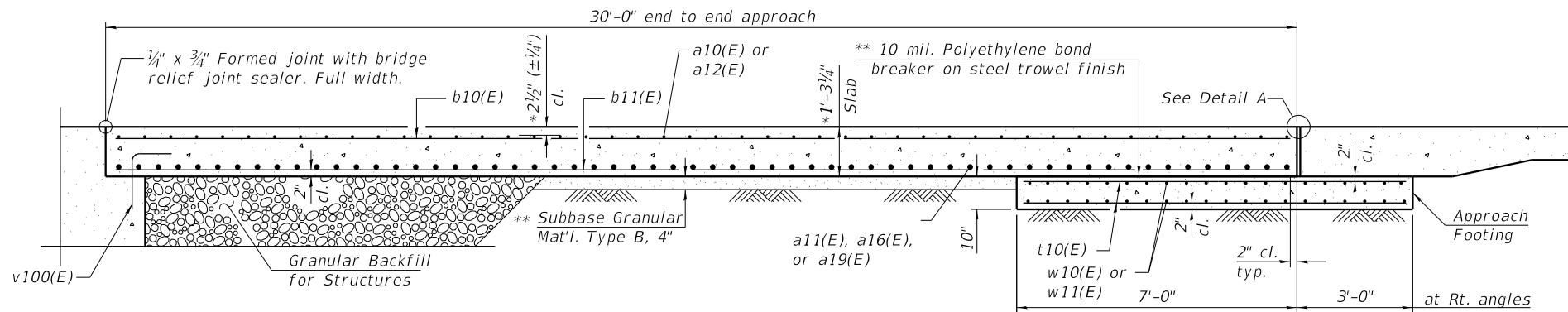
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB 2  
STRUCTURE NO. 056-3301**

SHEET 51-25 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	430

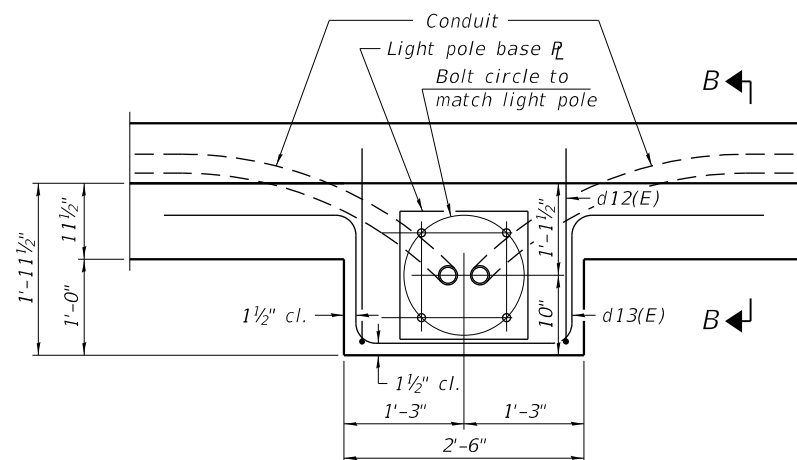
CONTRACT NO. 61193  
ILLINOIS FED. AID PROJECT



**SECTION A-A**

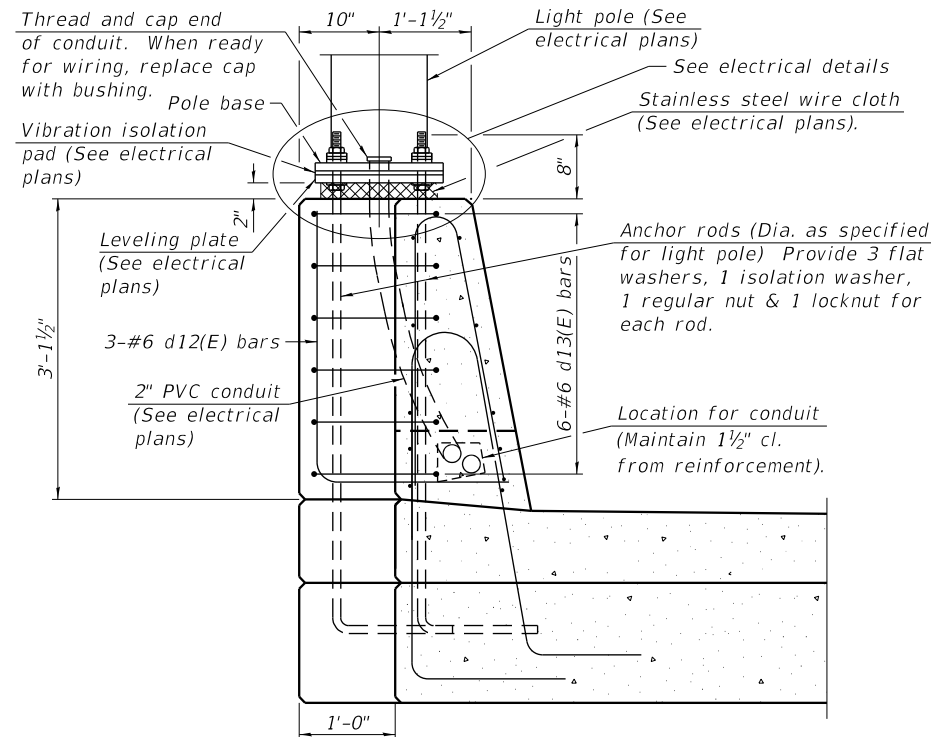
**Notes:**  
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge 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 S1-36 of S1-47.

\* Cost included with Concrete Superstructure (Approach Slab).  
 \*\* Per manufacturer recommendations

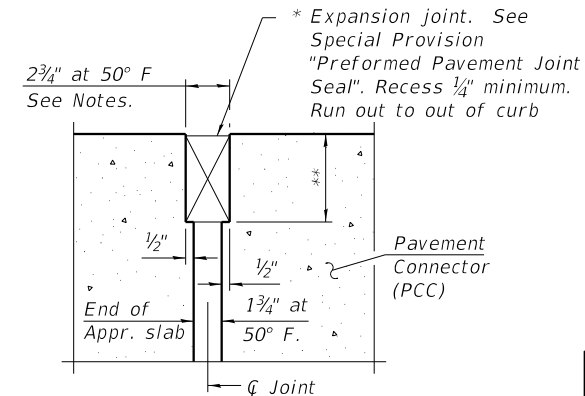


**LIGHT POLE PLAN**

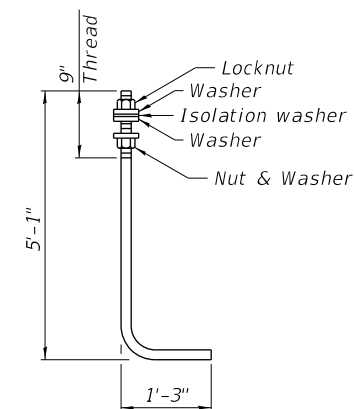
Note:  
 Cost of anchor rods is included with Concrete Superstructure.



**SECTION B-B**

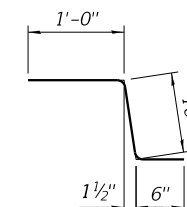


**DETAIL A**  
 (at Rt. L's)

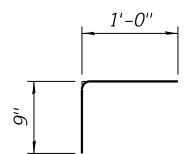


**ANCHOR ROD**

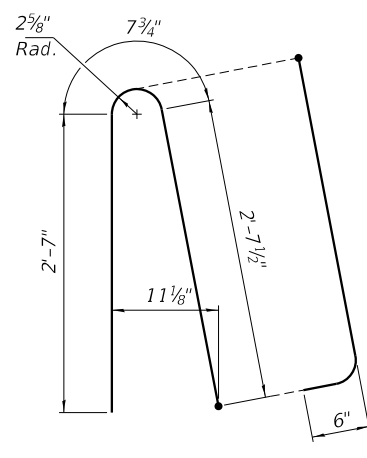
Diameter as specified for light poles.  
 (ASTM F 1554 Grade 105) Full length hot dipped galvanized.



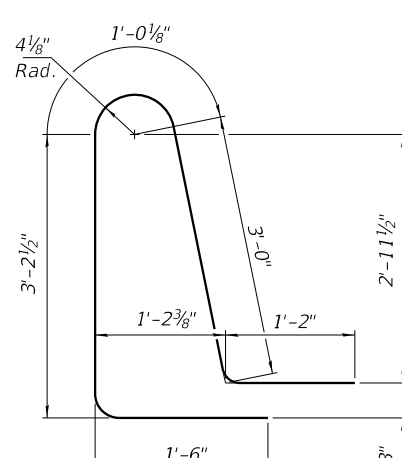
**BAR c11(E)**



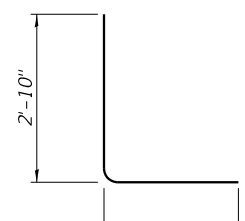
**BAR c13(E)**



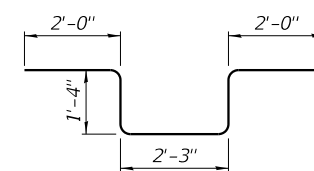
**BAR d10(E)**



**BAR d11(E)**



**BAR d12(E)**



**BAR d13(E)**

**TWO APPROACHES**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	184	#5	32'-4"	—
a11(E)	244	#8	33'-1"	—
a12(E)	276	#5	26'-1"	—
a13(E)	378	#8	27'-2"	—
b10(E)	531	#5	29'-8"	—
b11(E)	620	#9	29'-8"	—
c10(E)	62	#5	9'-4"	—
c11(E)	124	#5	2'-4"	—
c12(E)	31	#5	26'-9"	—
c13(E)	124	#5	1'-9"	—
c14(E)	62	#5	19'-1"	—
c15(E)	31	#5	27'-5"	—
d10(E)	184	#5	6'-5"	—
d11(E)	184	#5	10'-0"	—
d12(E)	6	#6	4'-10"	—
d13(E)	12	#6	8'-11"	—
e10(E)	24	#4	14'-7"	—
e11(E)	4	#4	29'-7"	—
e12(E)	12	#4	14'-8"	—
e13(E)	12	#4	14'-9"	—
e14(E)	4	#4	29'-10"	—
e15(E)	4	#4	29'-6"	—
e16(E)	4	#4	29'-8"	—
t10(E)	532	#4	9'-8"	—
w10(E)	160	#5	31'-11"	—
w11(E)	160	#5	37'-7"	—
Concrete Superstructure		Cu. Yd.	116.0	
Concrete Structures		Cu. Yd.	82.6	
Protective Coat		Sq. Yd.	933	
Concrete Superstructure (Approach Slab)		Cu. Yd.	368.8	
Reinforcement Bars, Epoxy Coated		Pound	164,950	

USER NAME = Mibeening	DESIGNED - IS	REVISED -
DRAWN - IS	CHECKED - TJA	REVISED -
PLOT SCALE = 2,0000' / in.	DATE - 6/14/2024	REVISED -
PLOT DATE = 6/12/2024		

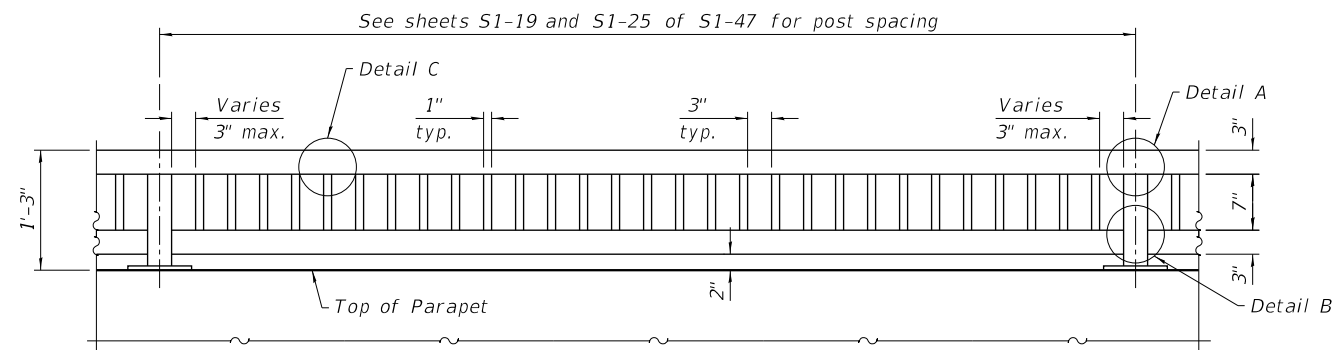
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB 3**  
**STRUCTURE NO. 056-3301**

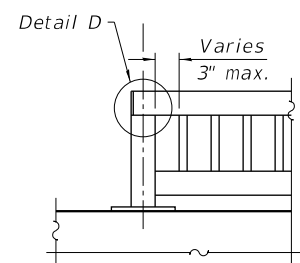
SHEET S1-26 OF S1-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	431
ILLINOIS			CONTRACT NO. 61193	
FED. AID PROJECT				

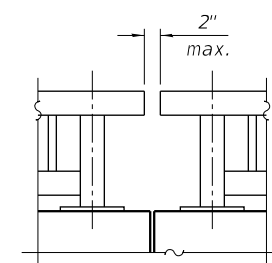
FILE NAME: p:\hpc\mint01\ba-et\transyscorp.com\transyscorp\pww\1\Documents\Projects\CH401 - Chicago\RA40113006\140.0000\44.0000\44.0000\Contract\_25\Sheet\_Files\23\_Structural\_Sheets\TSC\_Sheet\SEN\_056-3301 - Randall Road over Woods Creek\0563301-62\93\027\_RailDet.dgn



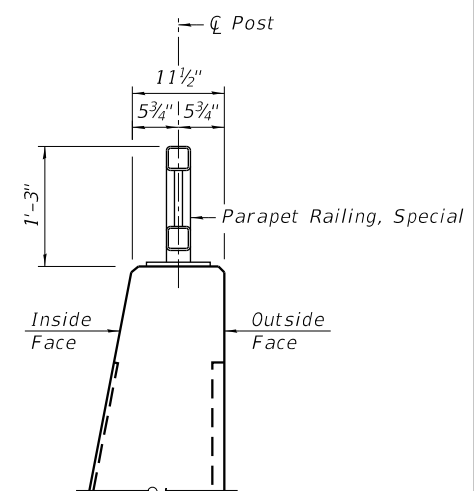
**ELEVATION**



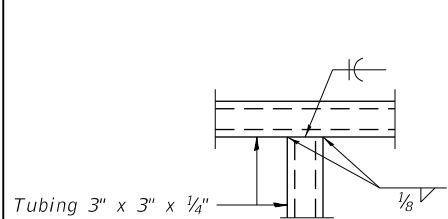
**TERMINAL SECTION**



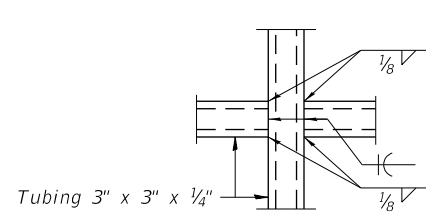
**SECTION AT EXPANSION JOINT**



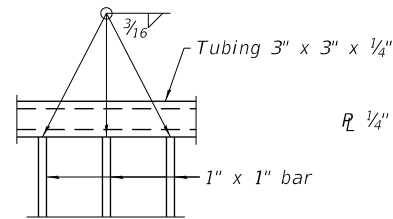
**SECTION THRU RAILING**



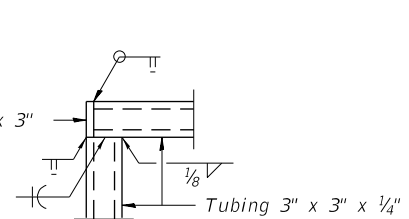
**DETAIL A**



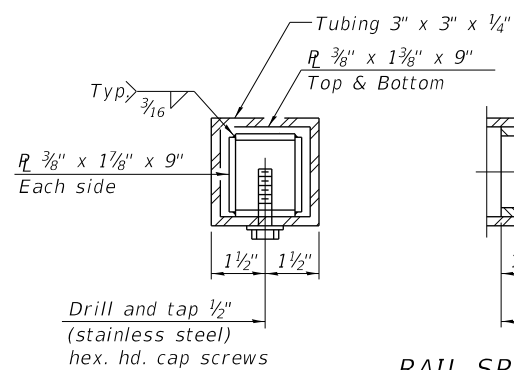
**DETAIL B**



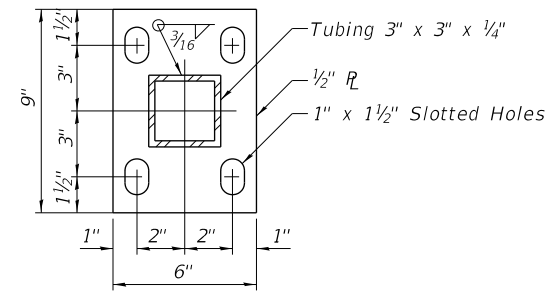
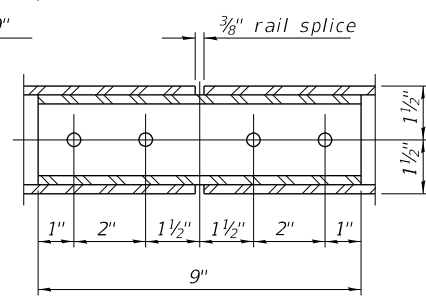
**DETAIL C**



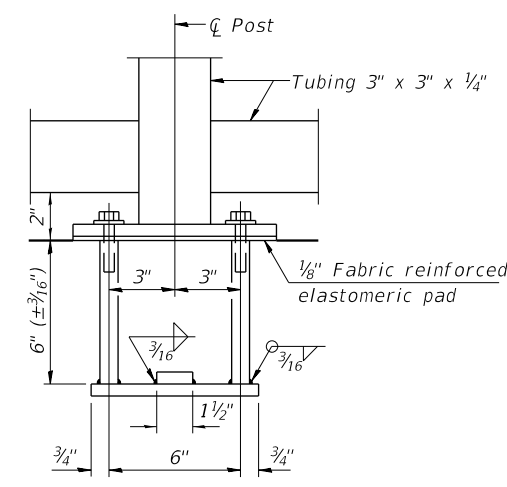
**DETAIL D**



**RAIL SPLICE**

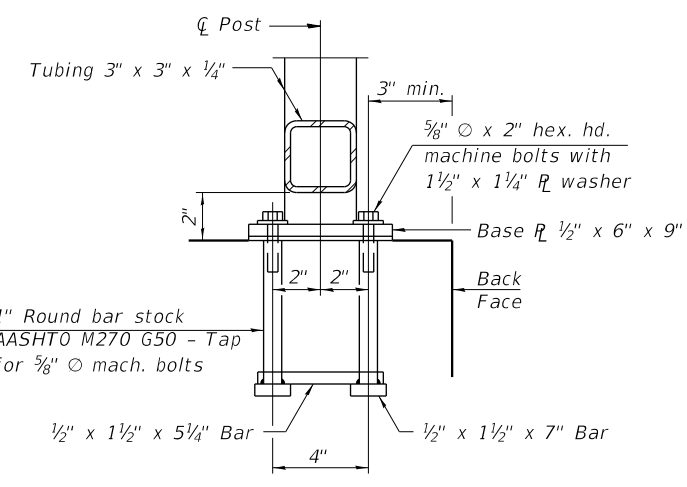


**BASE PLATE**



**ANCHOR BOLT DETAILS**

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



**Notes:**  
 All post, railing, splices, anchor devices, and plates shall be powder coat the color Traffic Black (RAL 9017).

**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing, Special	Foot	417

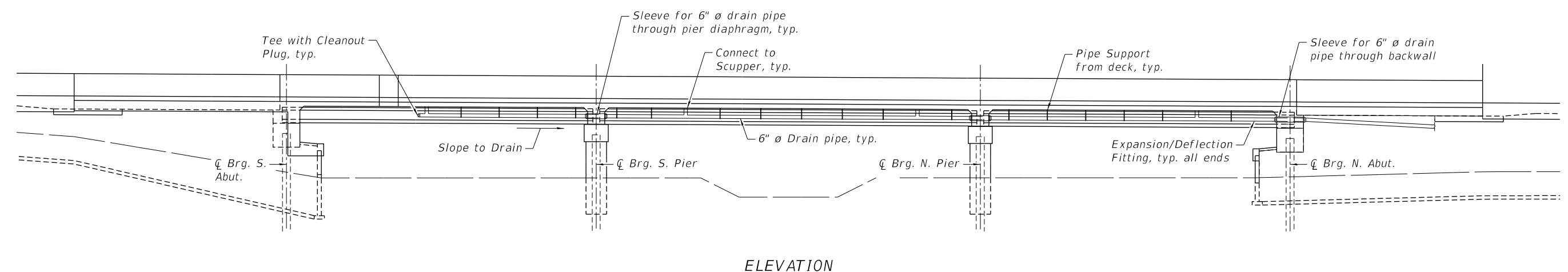
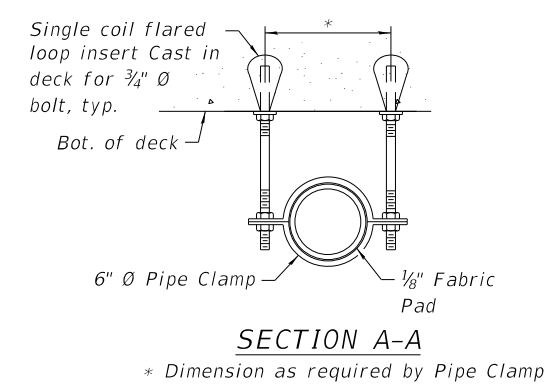
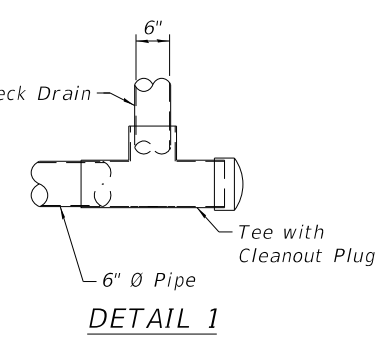
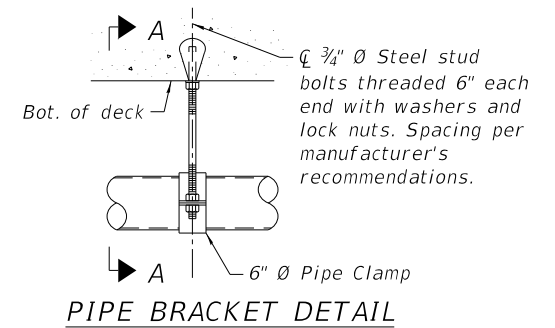
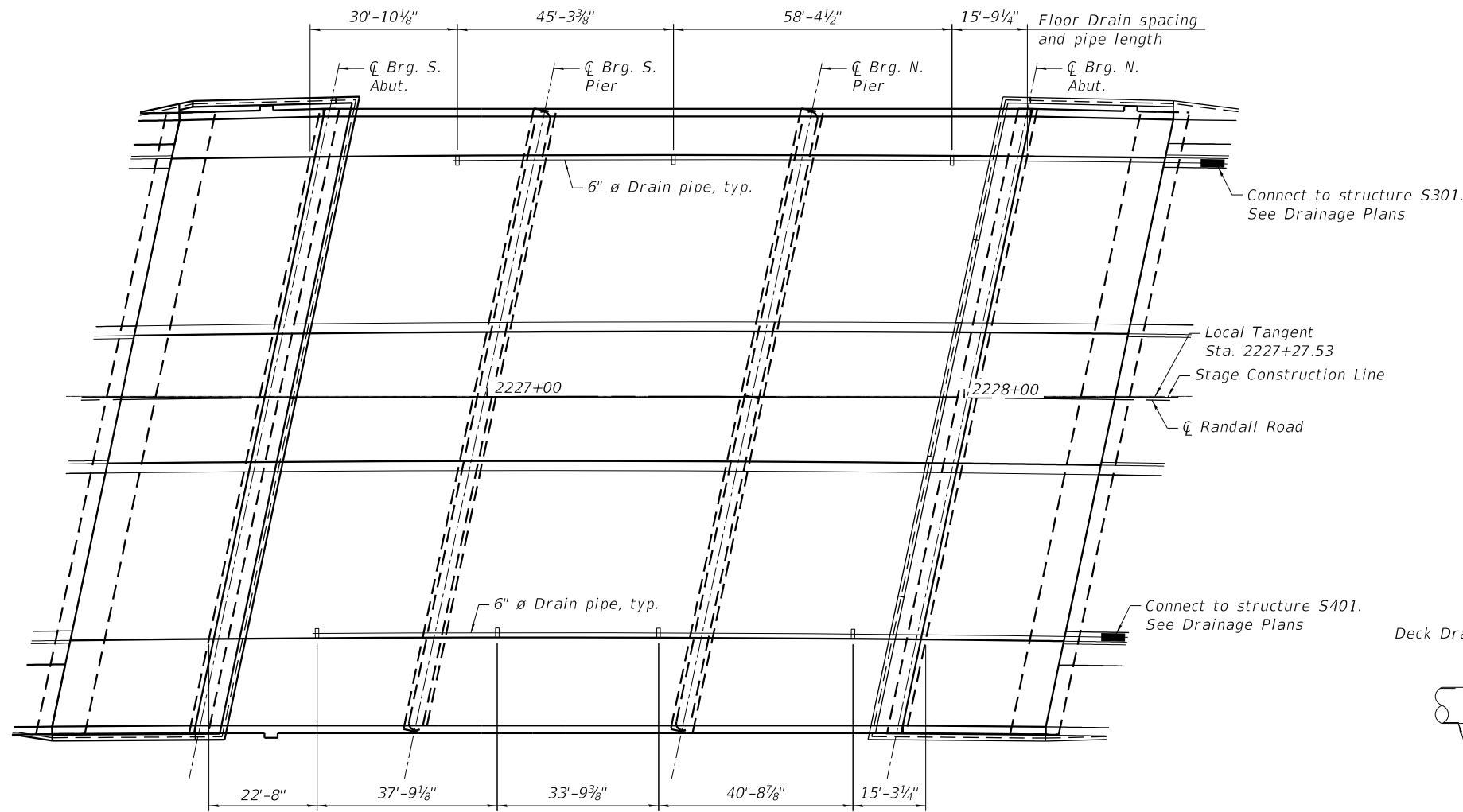
USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - JE	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS  
 STRUCTURE NO. 056-3301**

SHEET S1-27 OF S1-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	432
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	



**Notes:**  
 Provide structural support from proposed deck slab for drain pipe per manufacturer's recommendation, not to exceed 6' cts. Cost included with Drainage System for Structures.  
 All pipes, pipe fittings, brackets, inserts, and bolts shall be included with cost of Drainage System for Structures.  
 The drainage system shall be painted with a finish coat of gray, Munsell No. 5B 7/1. Cost included with Drainage System for Structures.

**BILL OF MATERIAL**

Item	Unit	Total
Drainage System for Structures	L. Sum	1.0

USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 32.0000' / in.	DRAWN - IS	REVISED -
PLOT DATE = 6/12/2024	CHECKED - TJA	REVISED -
	DATE - 6/14/2024	REVISED -

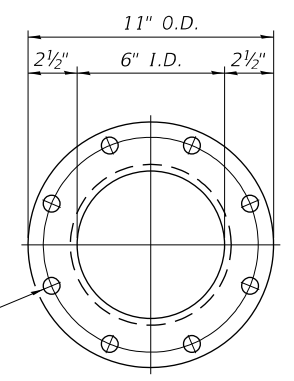
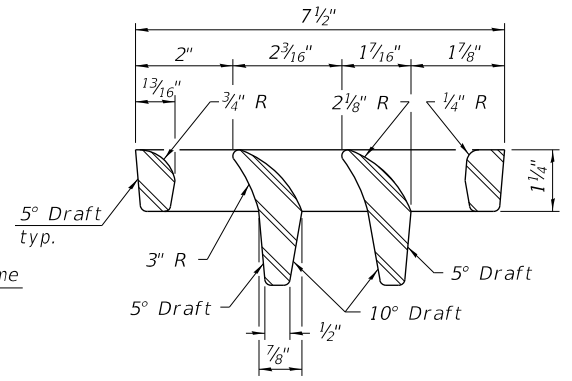
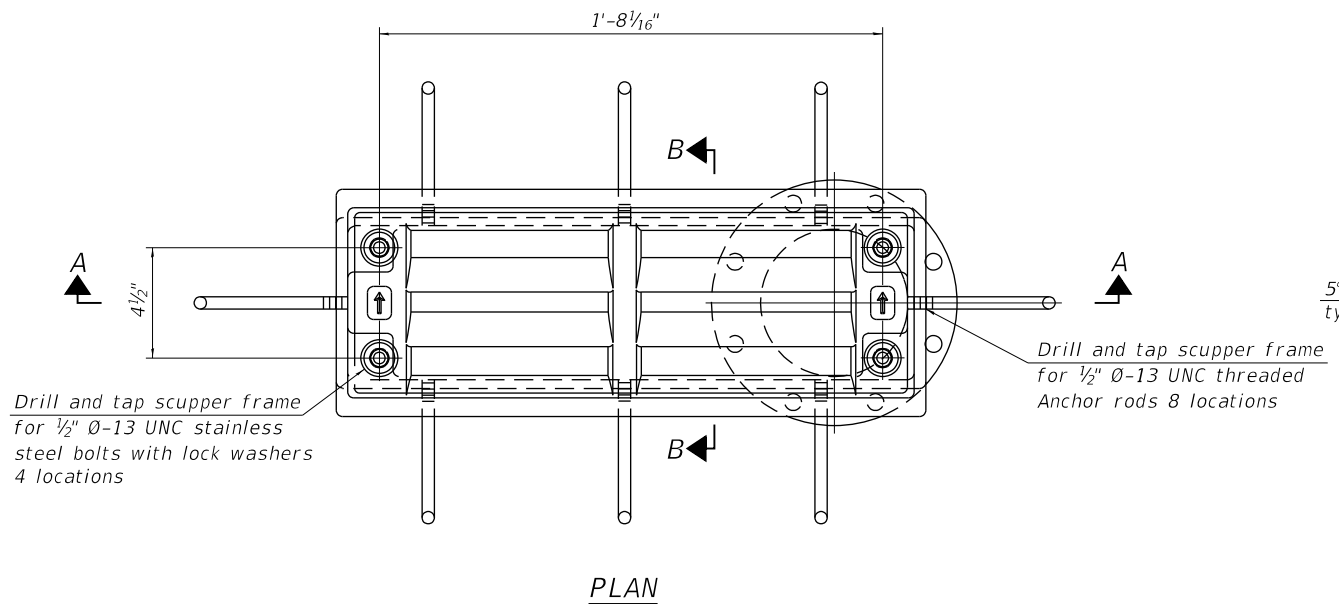
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DRAINAGE SYSTEM DETAILS  
 STRUCTURE NO. 056-3301**

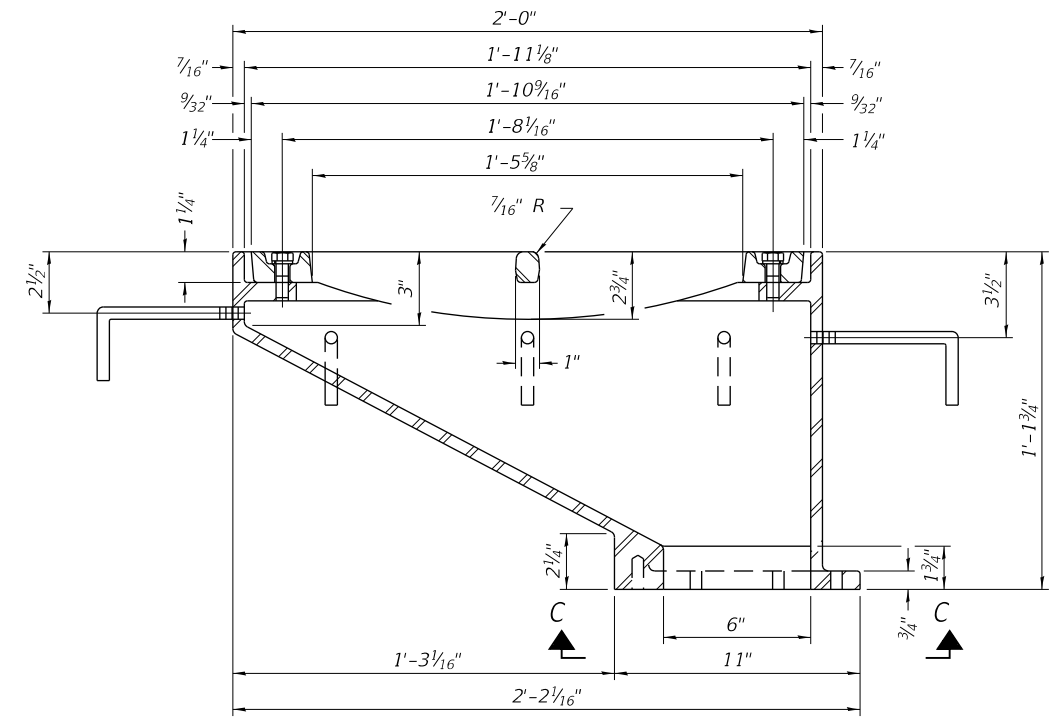
SHEET 51-28 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	433
ILLINOIS			FED. AID PROJECT	

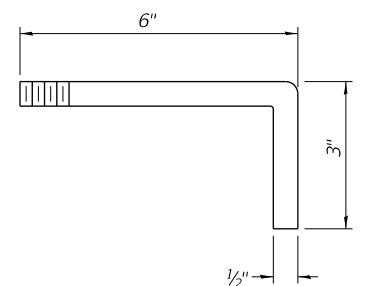
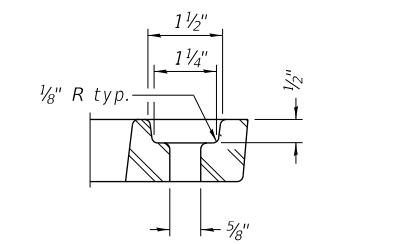
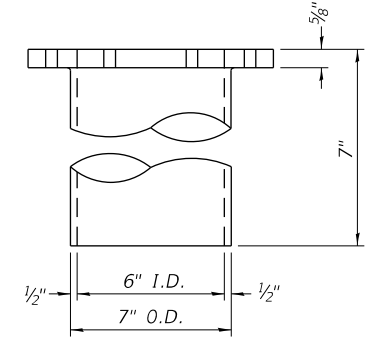
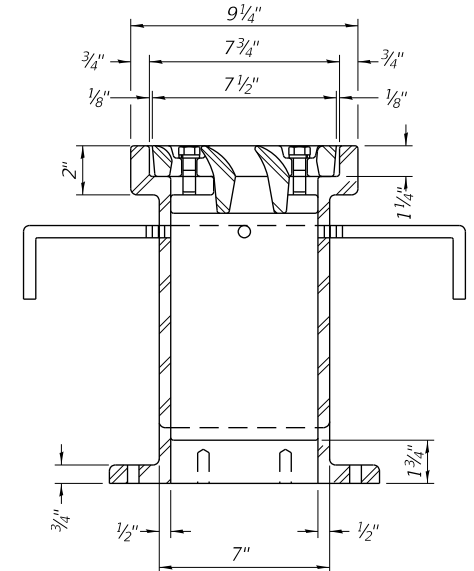
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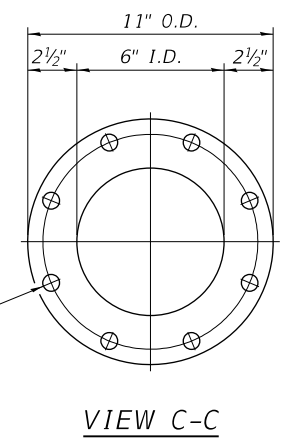
**Notes:**  
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.  
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.  
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.  
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.  
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.  
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet S1-28 of S1-47.  
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.  
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-12.



See sheet of for scupper location relative to parapet.



Drill and tap 8 holes for 3/4" Ø-13 UNC bolts on 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)



**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	7

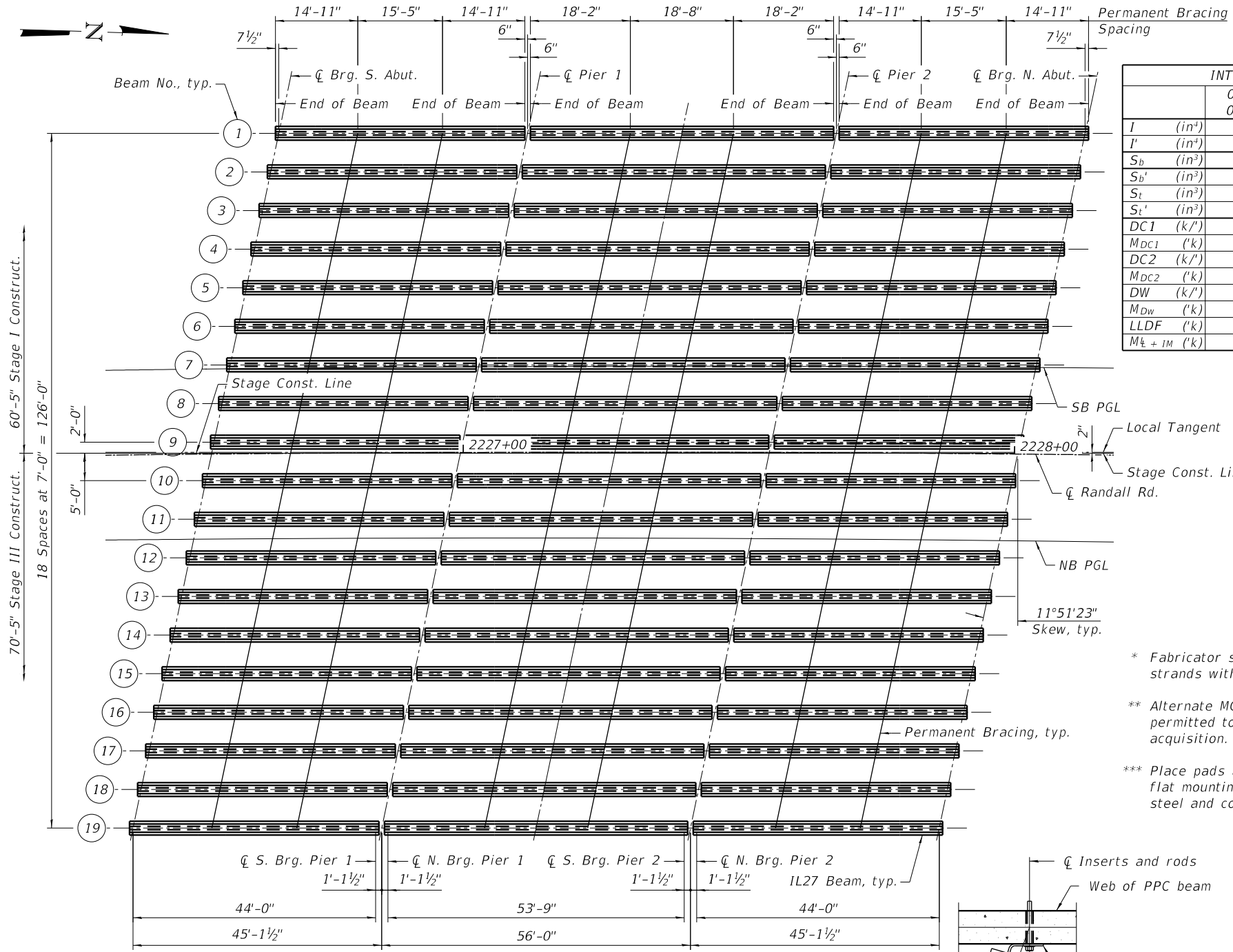
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DRAWN - SN	REVISIONS -	
PLOT SCALE = 2,0000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCUPPER, DS-12  
 STRUCTURE NO. 056-3301**

SHEET 51-29 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	434
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	



**INTERIOR BEAM MOMENT TABLE**

	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
<i>I</i> (in <sup>4</sup> )	33,879	33,879	33,879
<i>I'</i> (in <sup>4</sup> )	131,444	131,444	131,444
<i>S<sub>b</sub></i> (in <sup>3</sup> )	3,060	3,060	3,060
<i>S<sub>b</sub>'</i> (in <sup>3</sup> )	6,123	6,123	6,123
<i>S<sub>t</sub></i> (in <sup>3</sup> )	2,127	2,127	2,127
<i>S<sub>t</sub>'</i> (in <sup>3</sup> )	23,765	23,765	23,765
<i>M<sub>DC1</sub></i> (k/ft)	1.215	1.215	1.215
<i>M<sub>DC2</sub></i> (k/ft)	0.402	0.402	0.402
<i>M<sub>DC1</sub></i> (k)	284	0	459
<i>M<sub>DC2</sub></i> (k)	0.402	0.402	0.402
<i>M<sub>DC2</sub></i> (k)	56.6	104	53.5
<i>DW</i> (k/ft)	0.35	0.35	0.35
<i>M<sub>DW</sub></i> (k)	49.3	90.62	46.6
<i>LLDF</i> (k)	0.655	0.629	0.621
<i>M<sub>LL + IM</sub></i> (k)	434	363	419

- I*: Non-composite moment of inertia of beam section (in<sup>4</sup>).  
*I'*: Composite moment of inertia of beam section (in<sup>4</sup>).  
*S<sub>b</sub>*: Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
*S<sub>b</sub>'*: Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
*S<sub>t</sub>*: Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
*S<sub>t</sub>'*: Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
*DC1*: Un-factored non-composite dead load (kips/ft.).  
*M<sub>DC1</sub>*: 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<sub>DC2</sub>*: 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<sub>DW</sub>*: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
*LLDF*: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.  
*M<sub>LL + IM</sub>*: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
*OCF*: Obtuse Correction Factor computed according to Article 4.6.2.3c or as further simplified by IDOT provisions.  
*R<sub>DC1</sub>*: Un-factored reaction due to non-composite dead load (kip).  
*R<sub>DC2</sub>*: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).  
*R<sub>DW</sub>*: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).  
*R<sub>LL</sub>*: Un-factored live load reaction (kip).  
*R<sub>IM</sub>*: Un-factored dynamic load allowance (impact) (kip).  
*R<sub>Total</sub>* (Strength I): Total factored reaction including dynamic load allowance (impact) (kip).  
*R<sub>Total</sub>* (Strength I): Total factored reaction not including dynamic load allowance (impact) (kip).

- \* Fabricator shall locate to miss strands within permissible tolerances.  
 \*\* Alternate MC6x18 channels are permitted to facilitate material acquisition.  
 \*\*\* Place pads as necessary to provide a flat mounting surface between the steel and concrete.

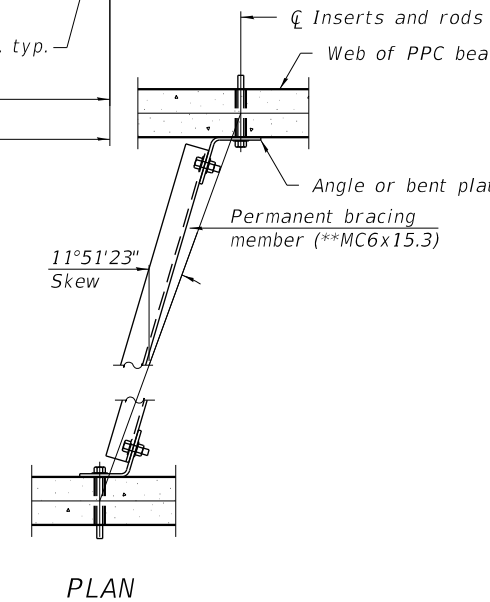
**INTERIOR BEAM REACTION TABLE**

	N. and S. Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
<i>LLDF</i> (k)	0.775	0.775	0.775
<i>OCF</i> (k)	1.042	1.042	1.042
<i>R<sub>DC1</sub></i> (k)	26.8	26.8	32.8
* <i>R<sub>DC2</sub></i> (k)	6.8	11.4	11.3
* <i>R<sub>DW</sub></i> (k)	5.9	9.9	9.8
* <i>R<sub>LL + IM</sub></i> (k)	62.2	75.3	75.8
<i>R<sub>Total</sub></i> (Strength I) (k) (Impact)	101.7	123.4	129.7
<i>R<sub>Total</sub></i> (Strength I) (k) (No Impact)	39.5	48.1	53.9

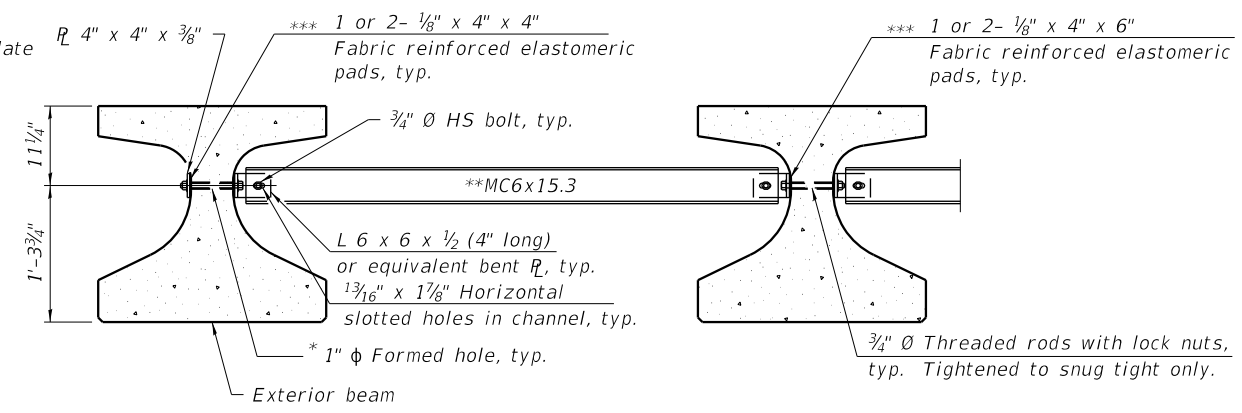
\* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

- Notes:**  
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be 1<sup>5</sup>/<sub>16</sub>" Ø unless otherwise noted.  
 5<sup>1</sup>/<sub>16</sub>" x 3" x 3" plate washers are required over all slotted holes.  
 All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.  
 Threaded rods shall be ASTM F 1554 Grade 55.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

**FRAMING PLAN**



**PLAN**



**PERMANENT BRACING DETAILS FOR IL27 BEAMS**

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		REVISIONS
		REVISIONS
		REVISIONS
		REVISIONS

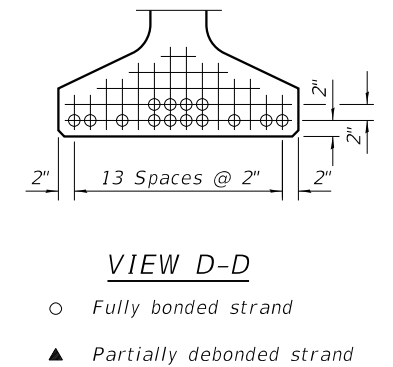
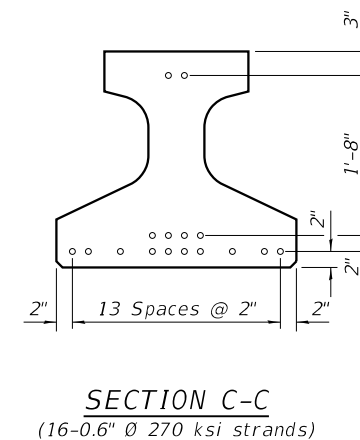
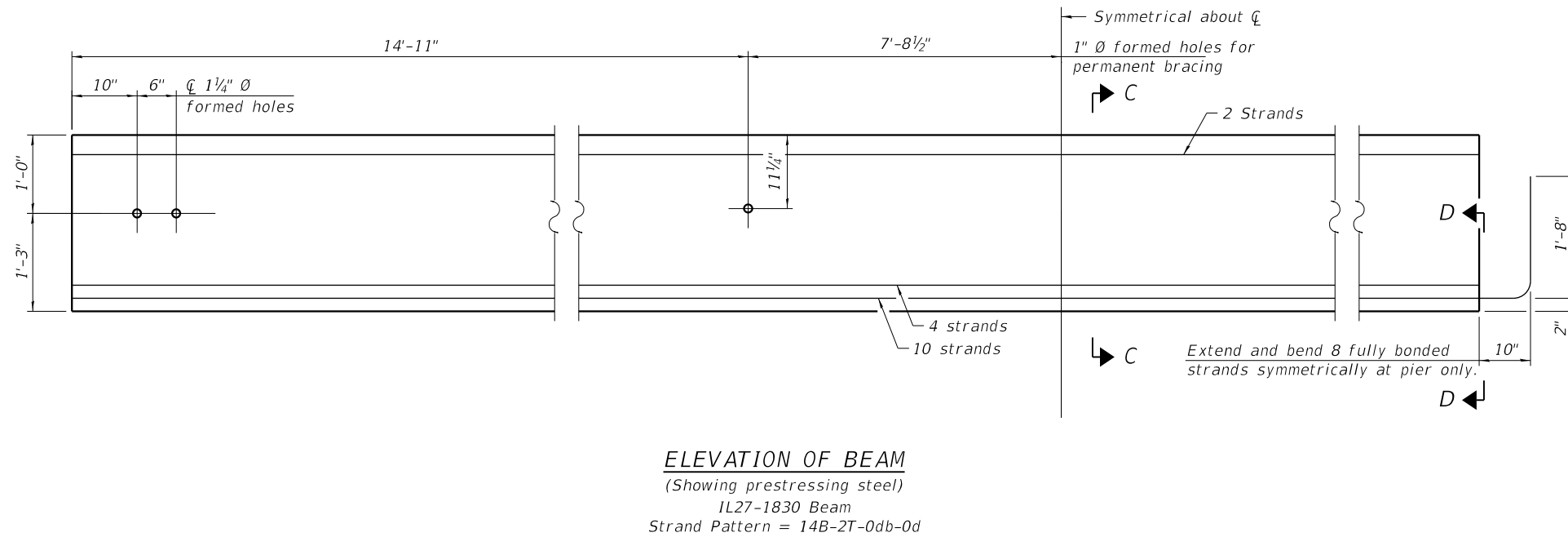
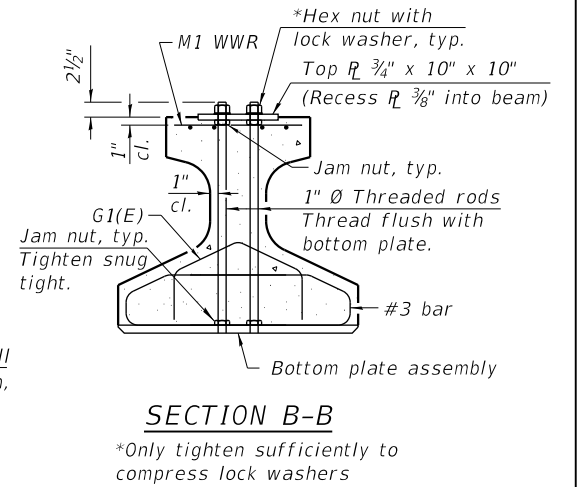
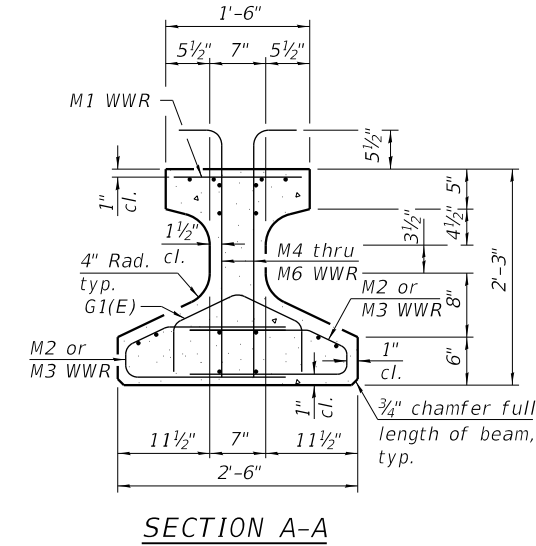
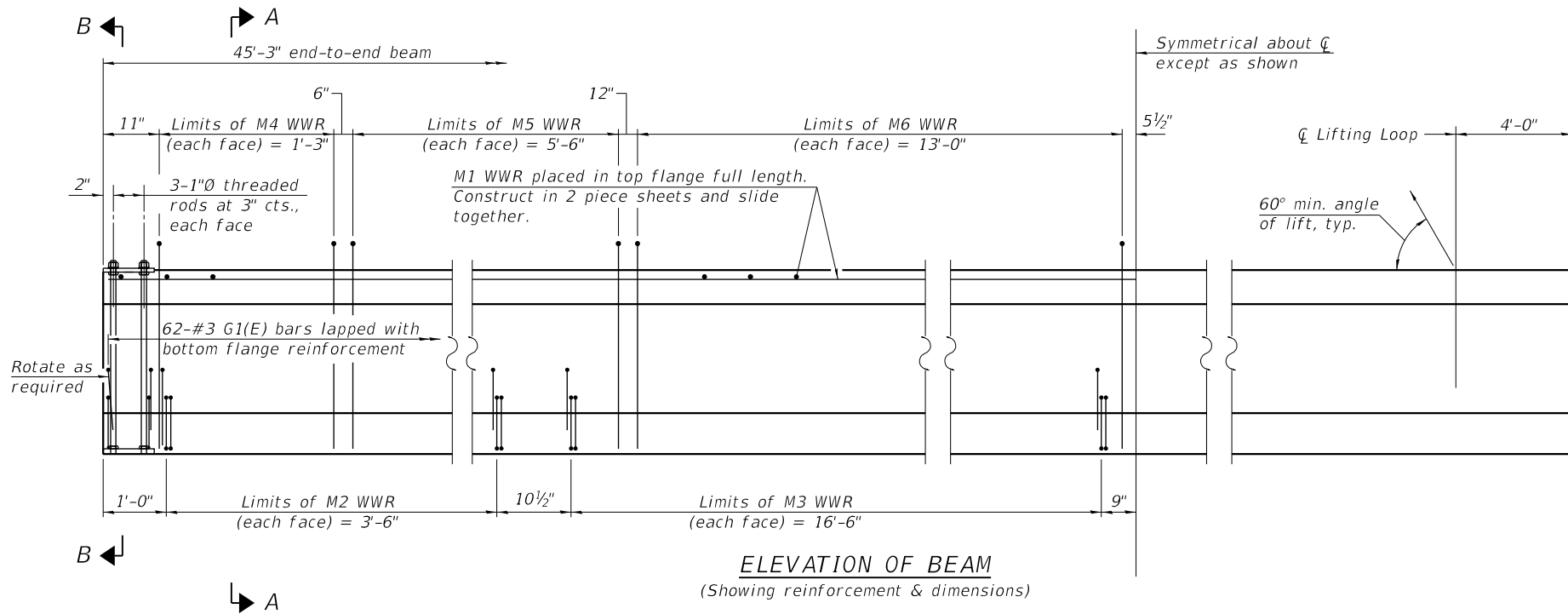
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN  
STRUCTURE NO. 056-3301**

SHEET 51-30 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	435
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

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	DRAWN - IS	REVISED -
PLOT SCALE = 2,000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

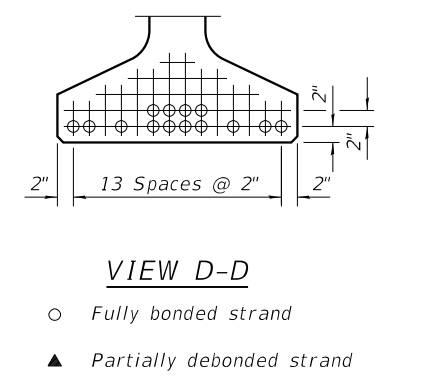
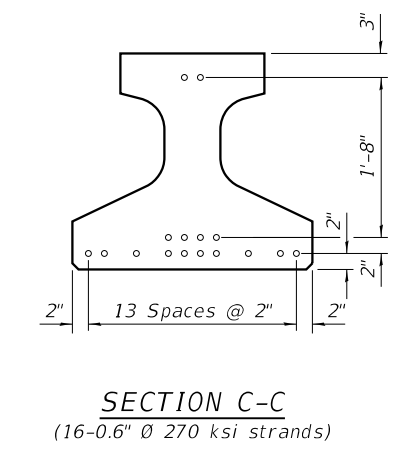
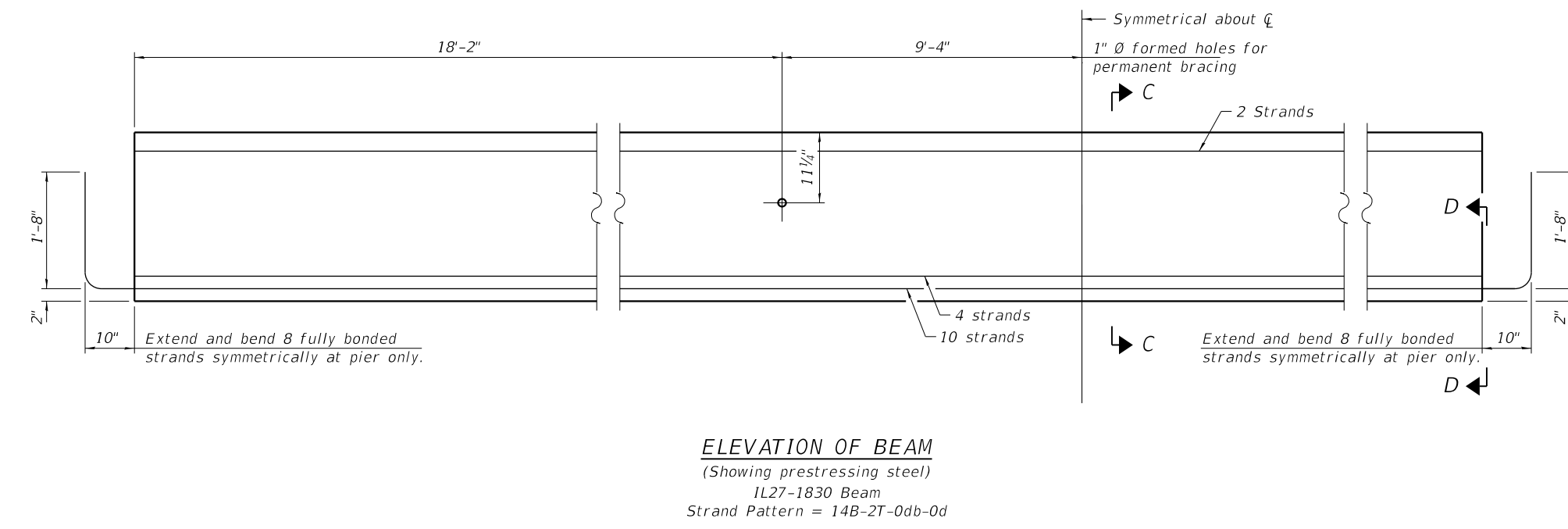
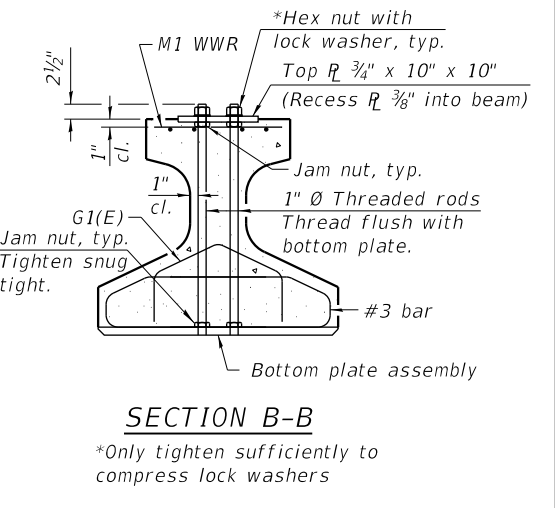
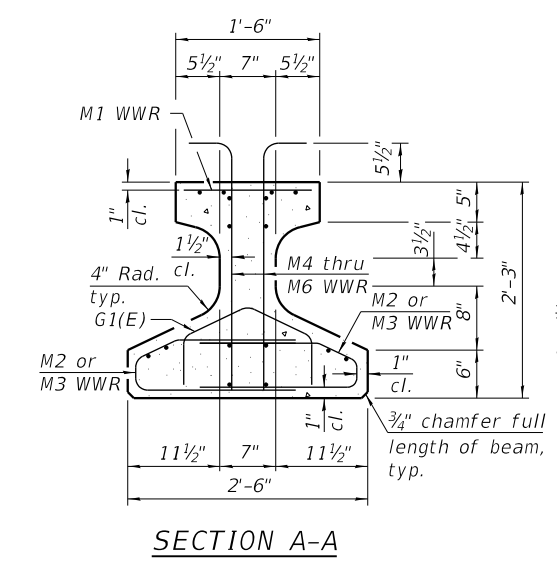
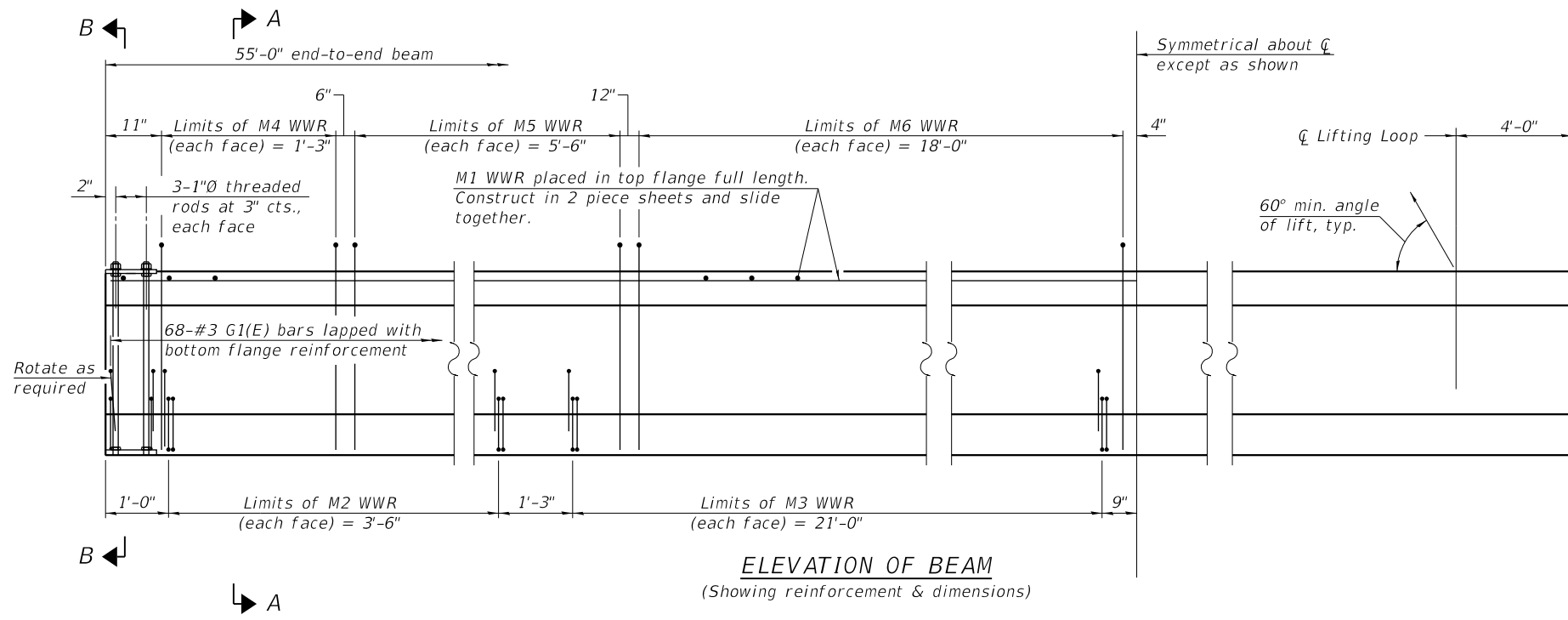
**IL27 PPC BEAM ELEVATION 1 (SPANS 1 & 3)  
 STRUCTURE NO. 056-3301**

SHEET 51-31 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	436
			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		



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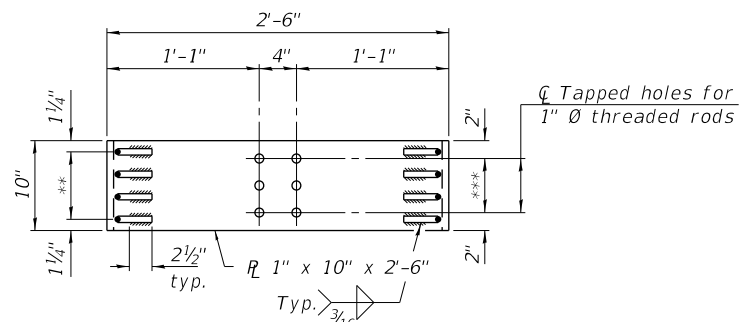
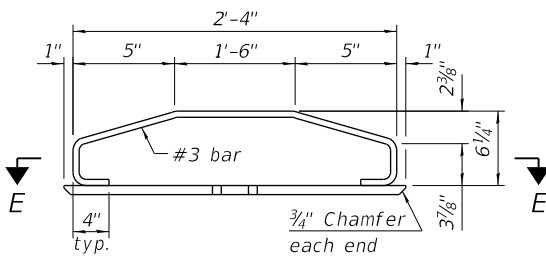
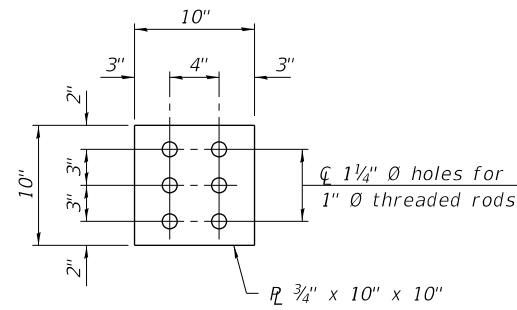
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

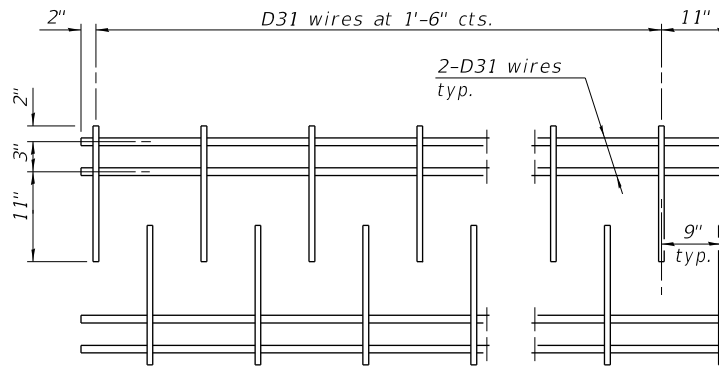
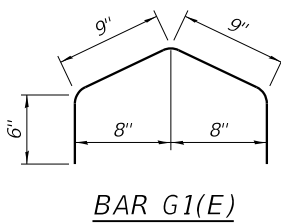
**IL27 PPC BEAM ELEVATION 2 (SPAN 2)**  
**STRUCTURE NO. 056-3301**

SHEET 51-32 OF 51-47 SHEETS

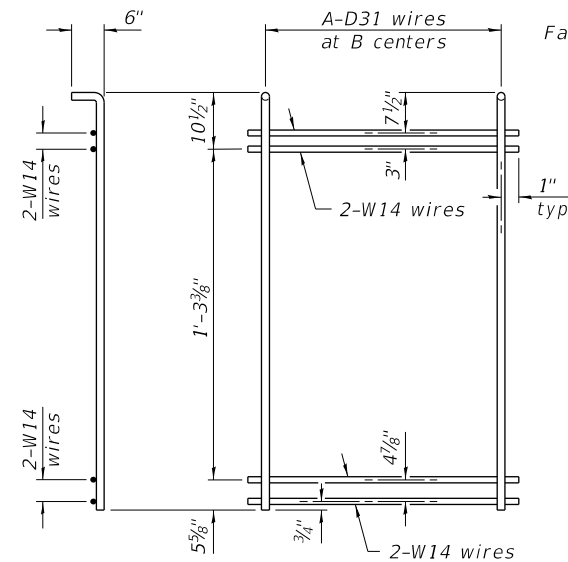
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336	06-00329-02-PW	MCHENRY	735	437
			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		



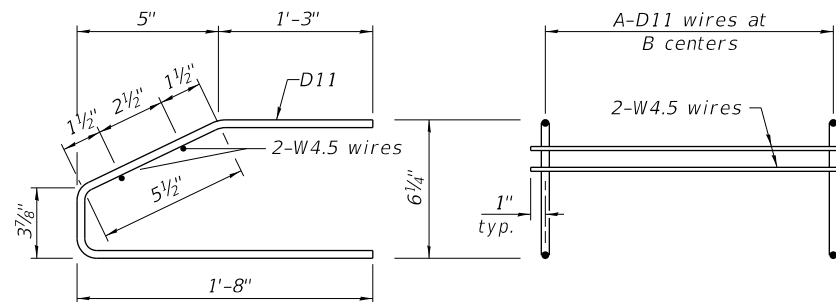
\*\* 3 Spaces at 2 1/2" = 7 1/2"  
 \*\*\* 2 Spaces at 3" = 6"



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



M4 THRU M6 WWR DETAIL  
 (See Table of Dimensions)



M2 AND M3 WWR DETAIL  
 (See Table of Dimensions)

**TABLE OF DIMENSIONS**

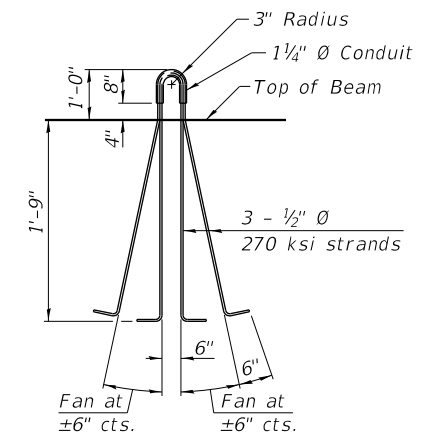
(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

**SPAN 1 & 3**

WWR	A	B
M2	15	3"
M3	12	1'-6"
M4	6	3"
M5	12	6"
M6	14	1'-0"

**SPAN 2**

WWR	A	B
M2	15	3"
M3	15	1'-6"
M4	6	3"
M5	12	6"
M6	19	1'-0"



LIFTING LOOP DETAIL

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N	Ft.	2,765

USER NAME = Mibeening	DESIGNED - IS	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

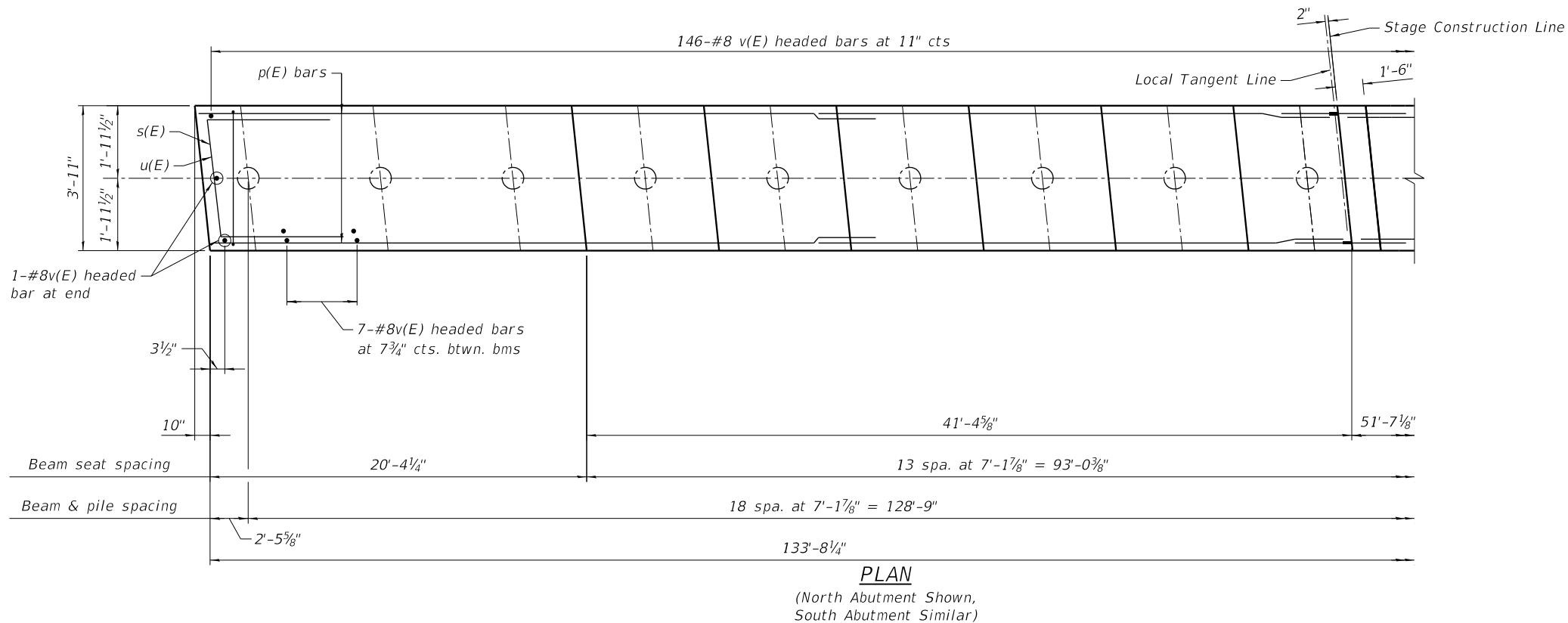
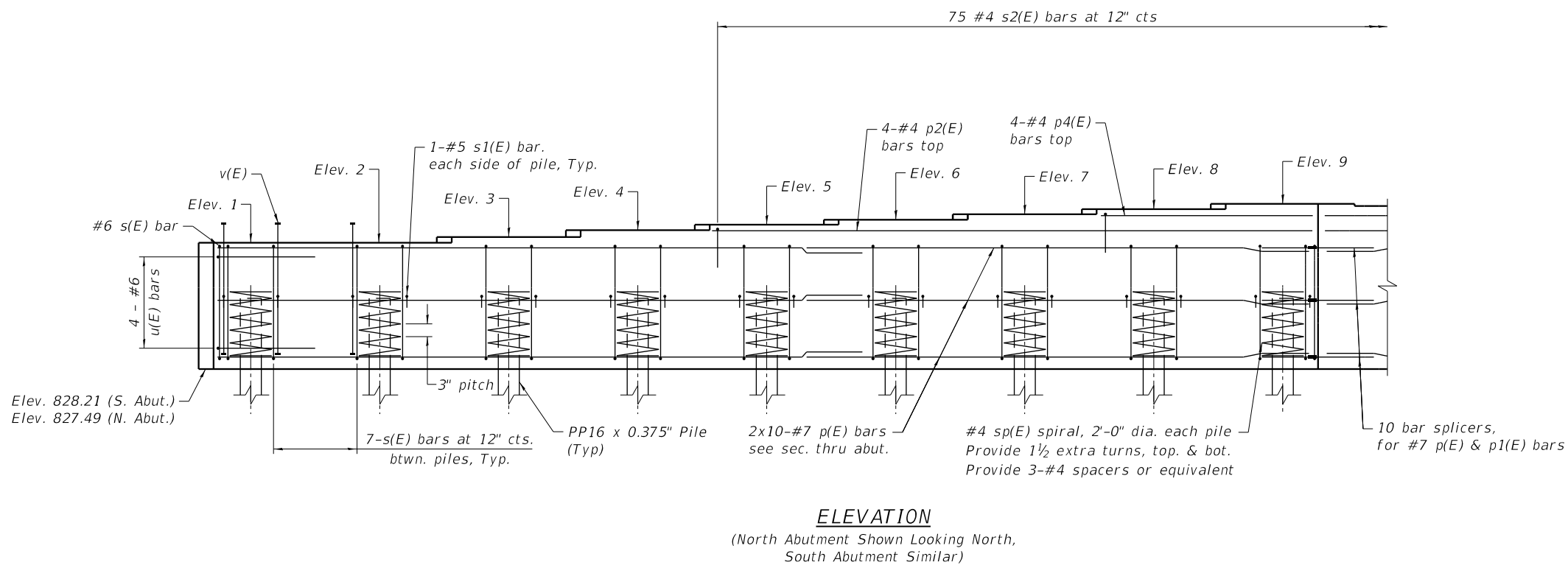
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL27 PPC BEAM DETAILS  
 STRUCTURE NO. 056-3301**

SHEET 51-33 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	438
			CONTRACT NO. 61J93	
		ILLINOIS FED. AID PROJECT		

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**MIN. BAR LAP**  
 #7 bar=5'-0"

**PILE DATA-SOUTH ABUTMENT**

Type: PP16 x 0.375"  
 Nominal Required Bearing: 455 kips  
 Factored Resistance Available: 250 kips  
 Est. Length: 35 feet  
 No. Production Piles: 18  
 No. Test Piles: 1  
 Min. Tip Elev. 803.40

**PILE DATA-NORTH ABUTMENT**

Type: PP16 x 0.375"  
 Nominal Required Bearing: 455 kips  
 Factored Resistance Available: 250 kips  
 Est. Length: 39 feet  
 No. Production Piles: 18  
 No. Test Piles: 1  
 Min. Tip Elev. 802.70

**BEAM SEAT ELEVATIONS**

Elev./Beam No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
South Abut.	831.71	831.71	831.88	832.07	832.21	832.36	832.51	832.65	832.80	832.73	832.62	832.50	832.36	832.22	832.08	832.91	831.83	831.83	831.83
North Abut.	830.99	830.99	831.15	831.34	831.49	831.63	831.78	831.93	832.07	832.01	831.89	831.76	831.62	831.50	831.35	831.19	831.09	831.09	831.09

Notes:  
 Pour steps monolithically with cap.  
 Headed bars shall conform to ASTM A970 with threaded attachment: Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
 For details of piles see sheet S1-39.

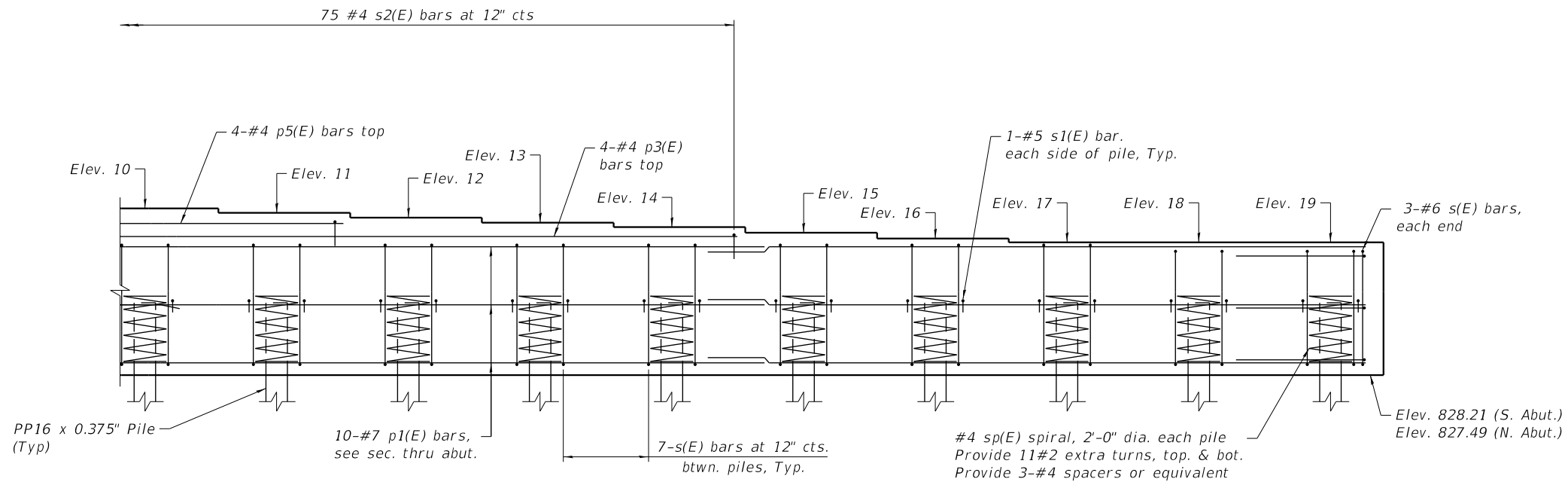
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	DRAWN - DMH	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

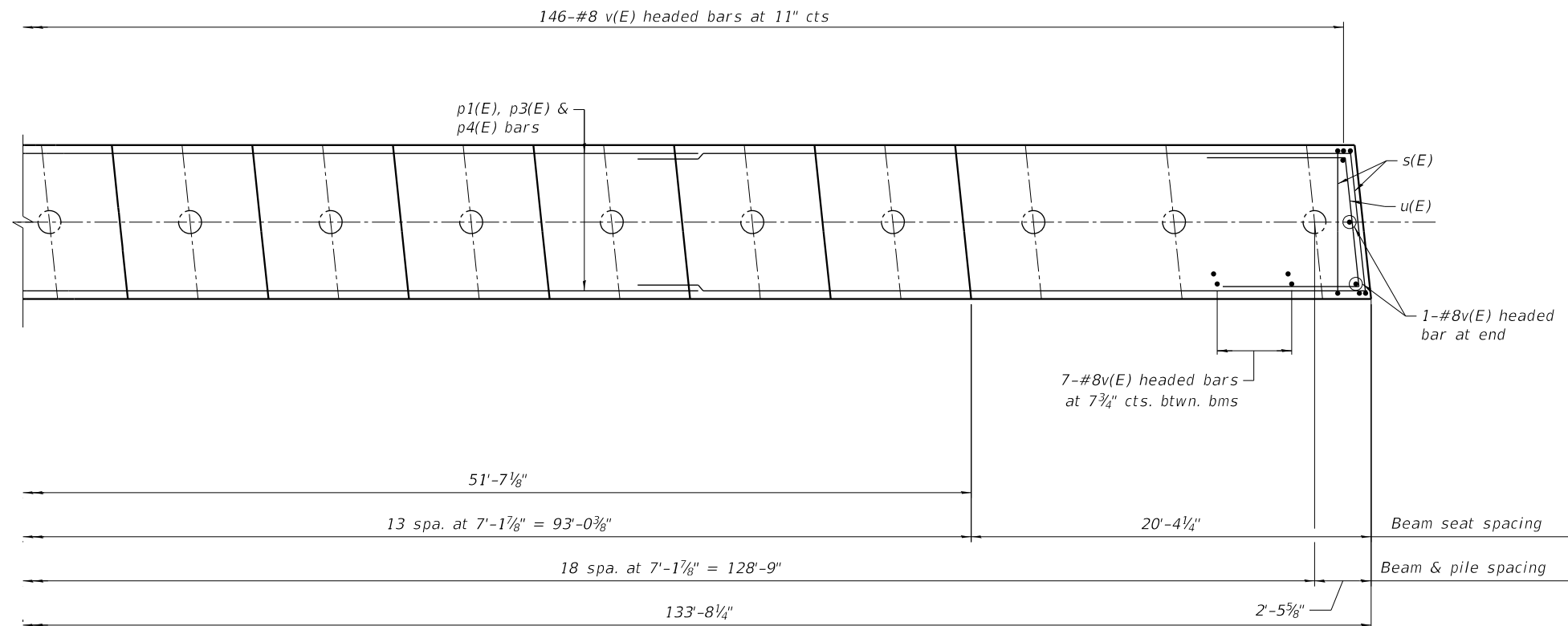
**ABUTMENTS (1 OF 2)  
 STRUCTURE NO. 056-3301**

SHEET S1-34 OF S1-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	439
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	



**ELEVATION**  
 (North Abutment Shown Looking North,  
 South Abutment Similar)



**PLAN**  
 (North Abutment Shown,  
 South Abutment Similar)

USER NAME = Mibeening	DESIGNED - CCF	REVISED -
	DRAWN - DMH	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

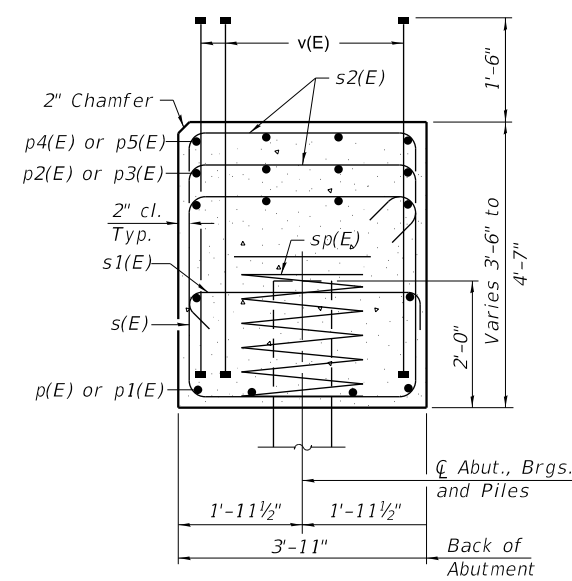
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENTS (2 OF 2)  
 STRUCTURE NO. 056-3301**

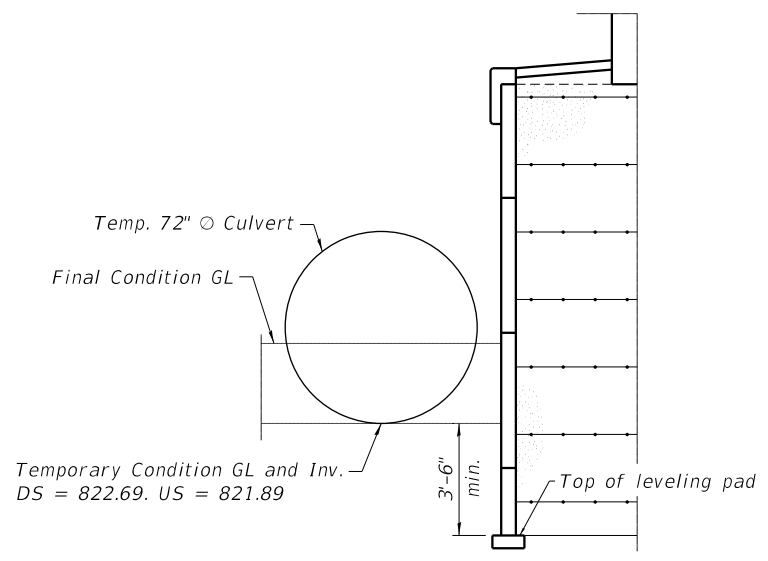
SHEET 51-35 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	440
CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

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SECTION THRU ABUTMENT



SECTION THRU ABUTMENT AT TEMPORARY CULVERT

BILL OF MATERIAL SOUTH ABUTMENT

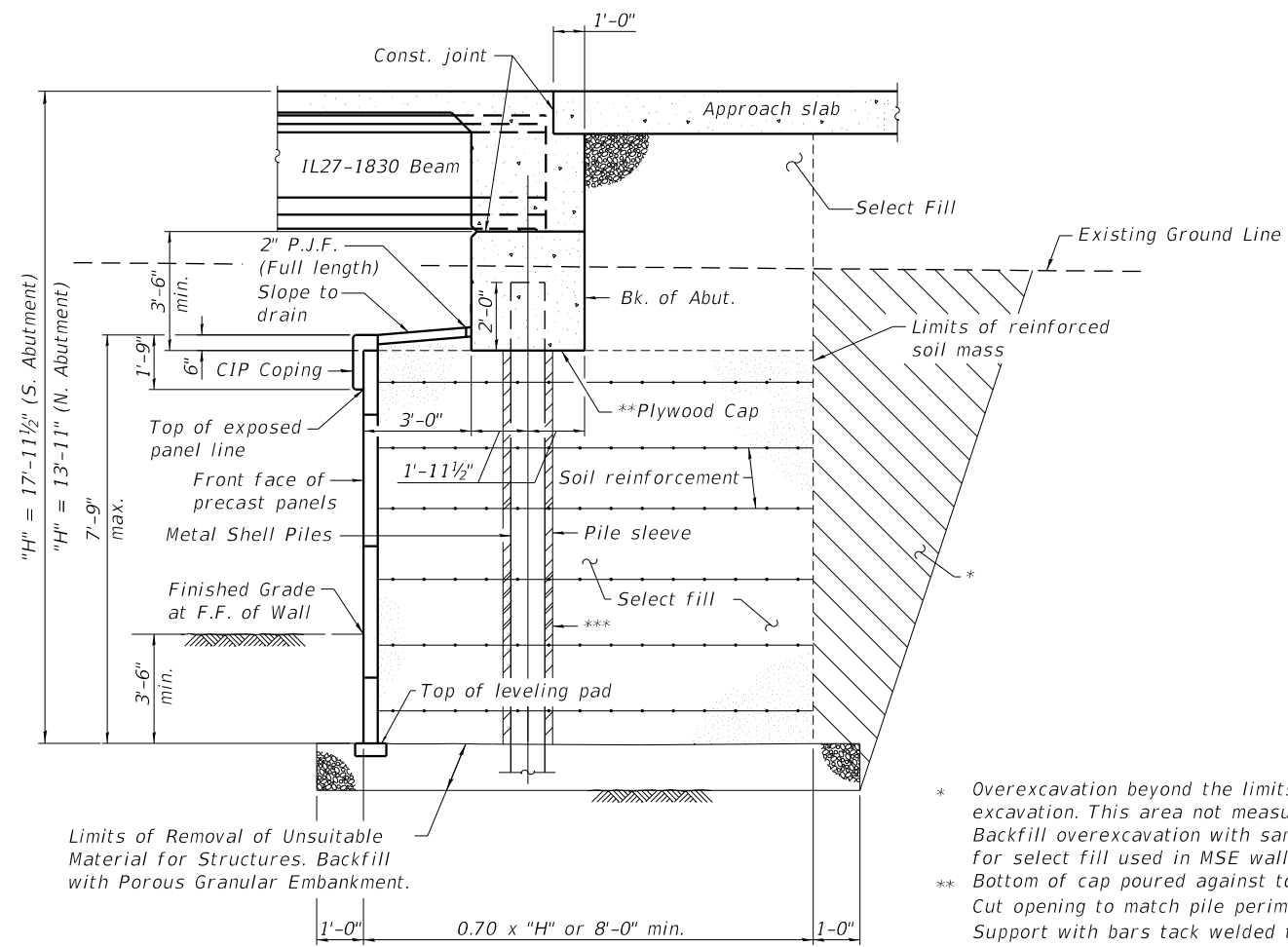
Bar	No.	Size	Length	Shape
p(E)	20	#7	33'-7"	—
p1(E)	20	#7	38'-7"	—
p2(E)	4	#4	33'-5"	—
p3(E)	4	#4	36'-1"	—
p4(E)	4	#4	10'-7"	—
p5(E)	4	#4	13'-3"	—
s(E)	128	#6	14'-10"	□
s1(E)	38	#5	4'-9"	┌┐
s2(E)	75	#4	6'-7"	└┘
sp(E)	19	#4	2'-0"	WWW
u(E)	6	#6	10'-6"	┘└
v(E)	256	#8	4'-3"	—
Item		Unit	Quantity	
Concrete Structures		Cu Yd	77.4	
Bar Splicers		Each	10	
Reinforcement Bars, Epoxy Coated		Pound	10,340	
Furnishing Steel Piles PP16 x 0.312"		Foot	576	
Driving Piles		Foot	576	
Test Pile, Steel PP16 x 0.312"		Each	1	

\*\*\*\* Length is height of spiral

BILL OF MATERIAL NORTH ABUTMENT

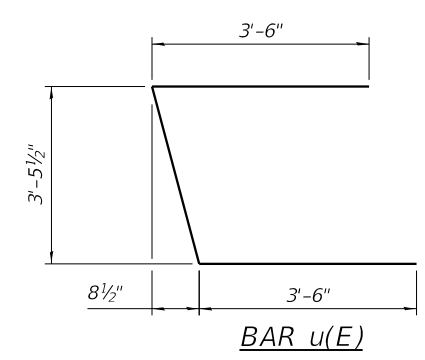
Bar	No.	Size	Length	Shape
p(E)	20	#7	33'-7"	—
p1(E)	20	#7	38'-7"	—
p2(E)	4	#4	33'-5"	—
p3(E)	4	#4	36'-1"	—
p4(E)	4	#4	10'-7"	—
p5(E)	4	#4	13'-3"	—
s(E)	128	#6	14'-10"	□
s1(E)	38	#5	4'-9"	┌┐
s2(E)	75	#4	6'-7"	└┘
sp(E)	19	#4	2'-0"	WWW
u(E)	6	#6	10'-6"	┘└
v(E)	256	#8	4'-3"	—
Item		Unit	Quantity	
Concrete Structures		Cu Yd	75.5	
Bar Splicers		Each	10	
Reinforcement Bars, Epoxy Coated		Pound	10,340	
Furnishing Steel Piles PP16 x 0.312"		Foot	684	
Driving Piles		Foot	684	
Test Pile, Steel PP16 x 0.312"		Each	1	

\*\*\*\* Length is height of spiral

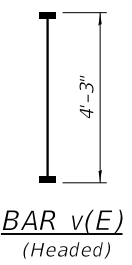


SECTION THRU ABUTMENT (Horiz. dim. at Rt. L's)

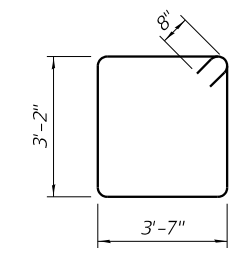
- \* Overexcavation beyond the limits of structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.
- \*\* Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within 1/8". Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out.
- \*\*\* Sleeve to remain empty in hatched region.



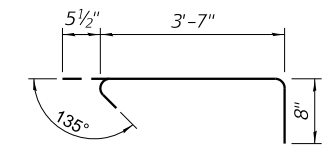
BAR u(E)



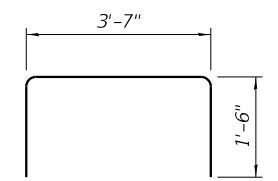
BAR v(E) (Headed)



BAR s(E)



BAR s1(E)



BAR s2(E)

USER NAME = Mibeening	DESIGNED - CCF	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DMH	REVISED -
PLOT DATE = 6/12/2024	CHECKED - CCF	REVISED -
	DATE - 6/14/2024	REVISED -

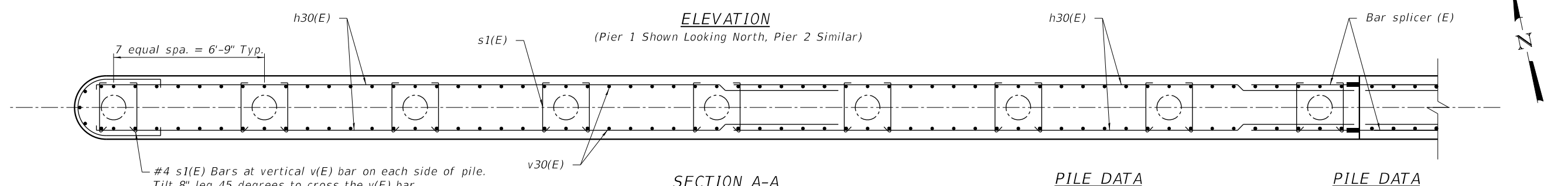
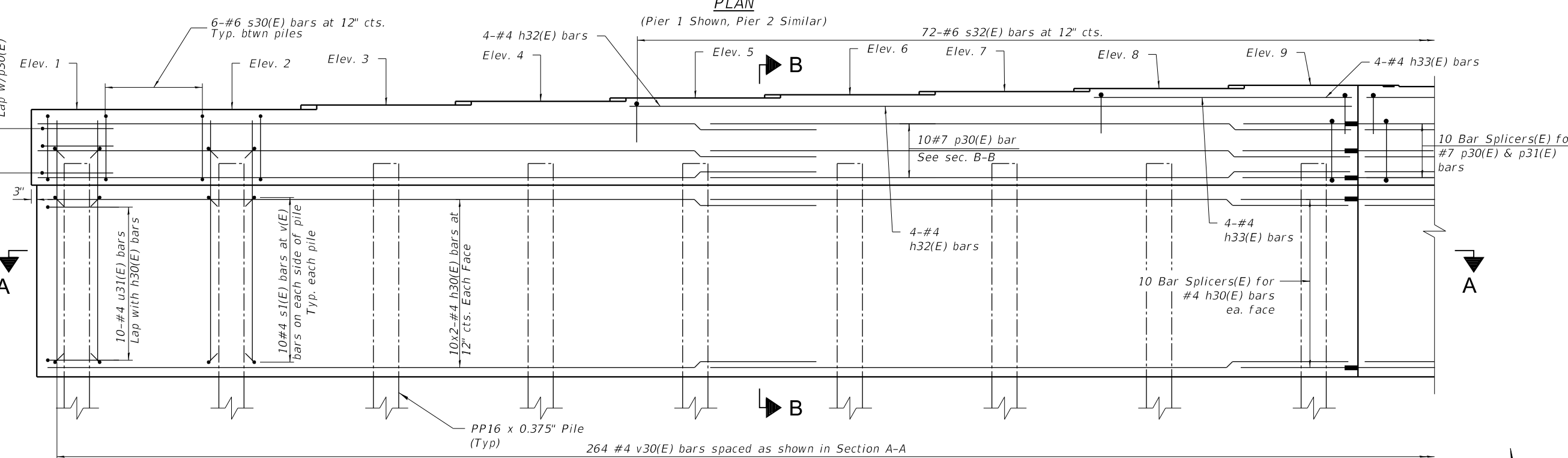
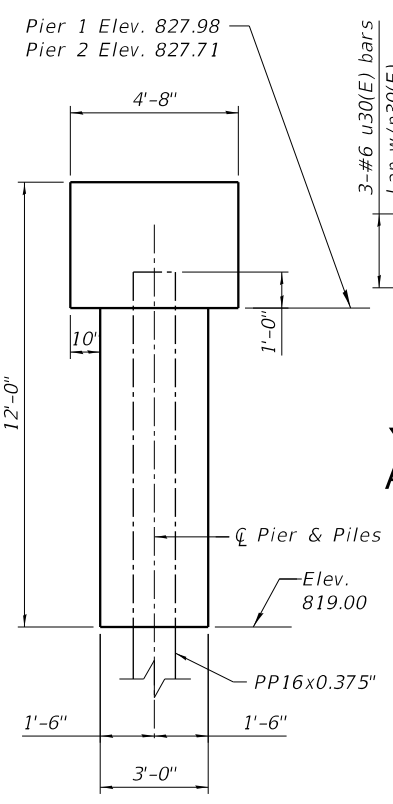
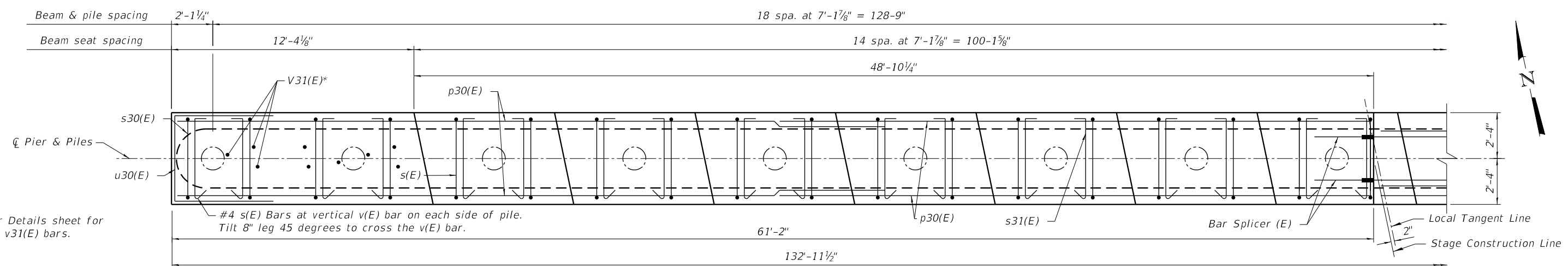
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS  
STRUCTURE NO. 099-8307

SHEET 51-36 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	441
CONTRACT NO. 61193				
ILLINOIS FED. AID PROJECT				

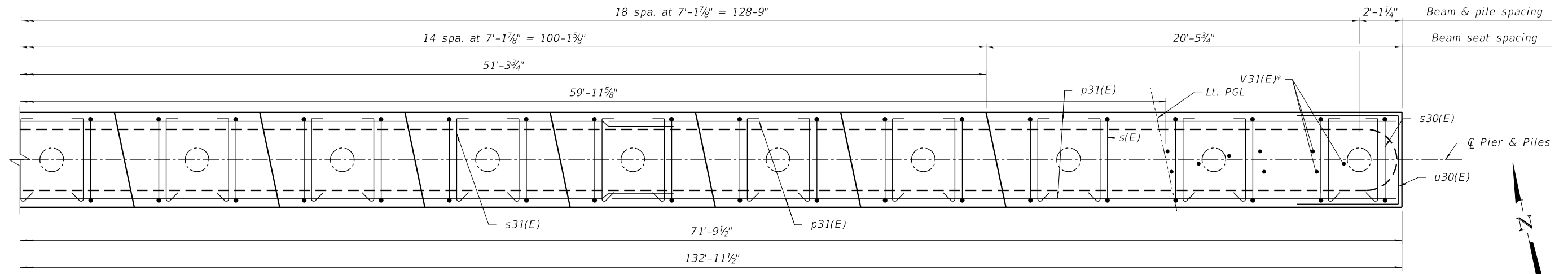
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PILE DATA PIER 1		PILE DATA PIER 2	
Type: PP16 x 0.375"	Nominal Required Bearing: 500 kips	Type: PP16 x 0.375"	Nominal Required Bearing: 500 kips
Factored Resistance Available: 275 kips	Est. Length: 34 feet	Factored Resistance Available: 275 kips	Est. Length: 49 feet
No. Production Piles: 18	No. Test Piles: 1	No. Production Piles: 18	No. Test Piles: 1
Min. Tip Elev. 800.0		Min. Tip Elev. 798.30	

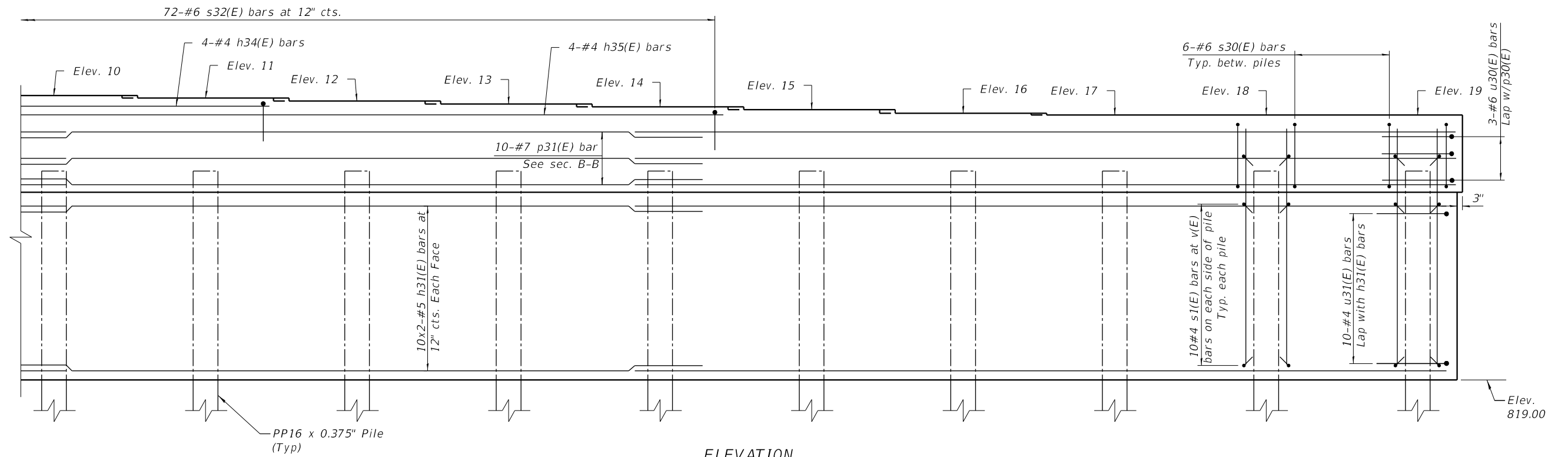
Elev. / Beam No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Pier 1	831.48	831.48	831.66	831.84	831.98	832.13	832.29	832.43	832.58	832.52	832.39	832.26	832.12	831.98	831.85	831.67	831.60	831.60	831.60
Pier 2	831.21	831.21	831.38	831.56	831.71	831.85	832.01	832.15	832.30	832.24	832.11	831.98	831.84	831.71	831.56	831.39	831.32	831.32	831.32

FILE NAME: p:\bbs\mint01\p.e\transys\corp\dwg\documents\projects\CH401 - Chicago\p40\1130061\40.0000\44.0000\44.0000\Contract\_2\Sheet\_Files\23\_Structural\_Sheets\TSC\_Sheet1533\_Pier2.dgn

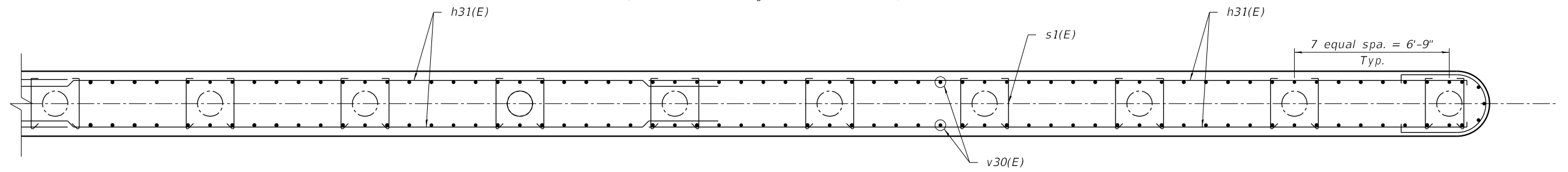


**PLAN**  
 (Pier 1 Shown, Pier 2 Similar)

\*See Pier Details sheet for layout of v31(E) bars.



**ELEVATION**  
 (Pier 1 Shown Looking North, Pier 2 Similar)



**SECTION A-A**

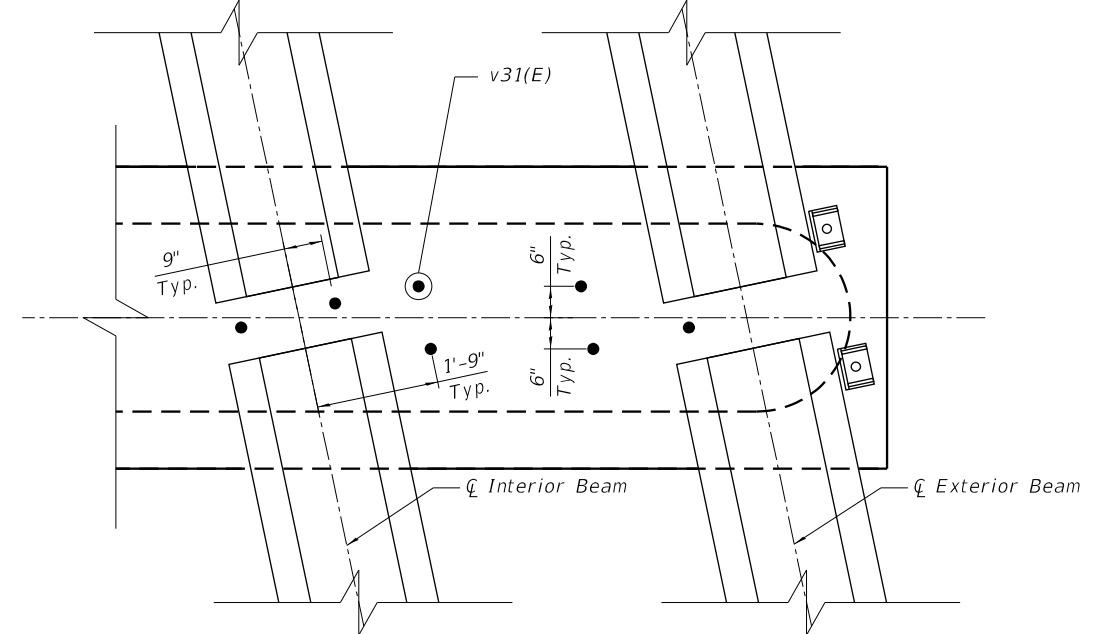
USER NAME = Mibeening	DESIGNED - CCF	REVISED -
PLOT SCALE = 5.3333' / in.	DRAWN - DMH	REVISED -
PLOT DATE = 6/12/2024	CHECKED - CCF	REVISED -
	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

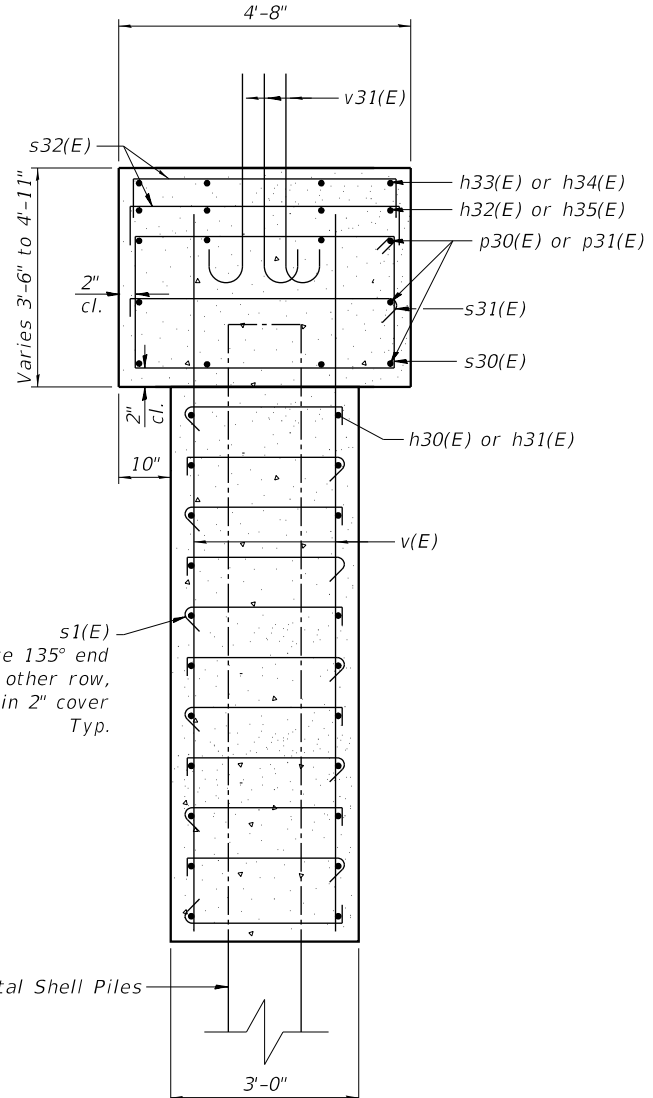
**PIER (2 OF 2)  
 STRUCTURE NO. 056-3301**

SHEET 51-38 OF 51-47 SHEETS

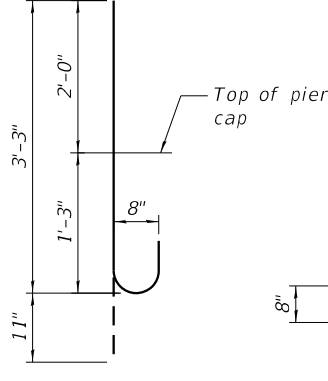
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	443
			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		



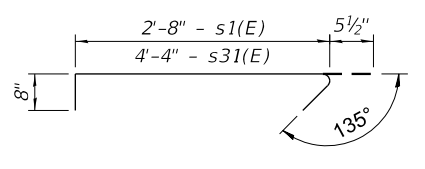
PLAN AT PIER  
 (Showing layout for v31(E) dowel bars)



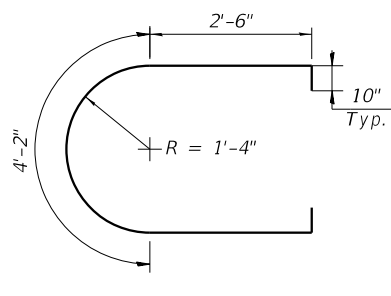
SECTION B-B



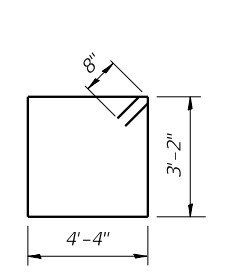
BAR v31(E)



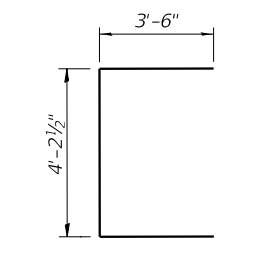
BAR s1(E) & s31(E)



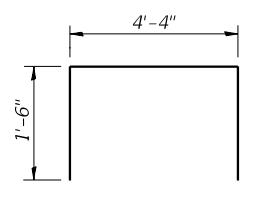
BAR u31(E)



BAR s30(E)



BARS u30(E)



BARS s32(E)

**BILL OF MATERIAL PIER 1**

Bar	No.	Size	Length	Shape
h30(E)	40	#4	31'-11"	
h31(E)	40	#4	37'-2"	
h32(E)	4	#4	33'-4"	
h33(E)	4	#4	11'-10"	
h34(E)	4	#4	14'-2"	
h35(E)	4	#4	35'-6"	
p30(E)	10	#7	33'-4"	
p31(E)	10	#7	38'-8"	
s1(E)	148	#4	3'-10"	
s30(E)	298	#6	16'-4"	
s31(E)	148	#4	5'-6"	
s32(E)	22	#4	7'-4"	
u30(E)	8	#5	11'-3"	
u31(E)	8	#4	10'-10"	
v30(E)	22	#4	11'-10"	
v31(E)	22	#8	4'-2"	

Item	Unit	Quantity
Concrete Structures	Cu Yd	224.1
Reinforcement Bars, Epoxy Coated	Pound	10,530
Furnishing Steel Piles 16" x 0.375" MSP	Foot	612
Driving Piles	Foot	612
Test Pile Steel 16" x 0.375" MSP	Each	1

**LAP LENGTHS**

#4 BAR = 2'-7"  
 #7 BAR = 5'-6"

**BILL OF MATERIAL PIER 2**

Bar	No.	Size	Length	Shape
h30(E)	40	#4	31'-11"	
h31(E)	40	#4	37'-2"	
h32(E)	4	#4	33'-4"	
h33(E)	4	#4	11'-10"	
h34(E)	4	#4	14'-2"	
h35(E)	4	#4	35'-6"	
p30(E)	10	#7	33'-4"	
p31(E)	10	#7	38'-8"	
s1(E)	148	#4	3'-10"	
s30(E)	298	#6	16'-4"	
s31(E)	148	#4	5'-6"	
s32(E)	22	#4	7'-4"	
u30(E)	8	#5	11'-3"	
u31(E)	8	#4	10'-10"	
v30(E)	22	#4	11'-10"	
v31(E)	22	#8	4'-2"	

Item	Unit	Quantity
Concrete Structures	Cu Yd	224.1
Bar Splicers	Each	30
Reinforcement Bars, Epoxy Coated	Pound	10,530
Furnishing Steel Piles 16" x 0.375" MSP	Foot	882
Driving Piles	Foot	882
Test Pile Steel 16" x 0.375" MSP	Each	1

**TRANSYSTEMS**  
 1475 EAST WOODFIELD ROAD, SUITE 600  
 SCHAMBURG, ILLINOIS 60173  
 (847) 605-9600

FILE NAME: p:\projects\min01\ae-transyscorp.com\transyscorp\pwa\1\Documents\Projects\CH01 - Chicago\PA40113006\140.0000\44.0000\44.0000\Structural\_Sheets\TSC\_Sheet23\_25Sheet\_Files\23\_Structural\_Sheets\TSC\_Sheet23\_PierDet.dwg

USER NAME = Mibeening	DESIGNED - CCF	REVISED -
DRAWN - DMH	REVISIONS -	
PLOT SCALE = 3.0667' / in.	CHECKED - CCF	REVISIONS -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISIONS -

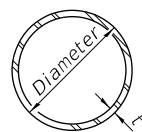
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER DETAILS  
 STRUCTURE NO. 056-3301

SHEET 51-39 OF 51-47 SHEETS

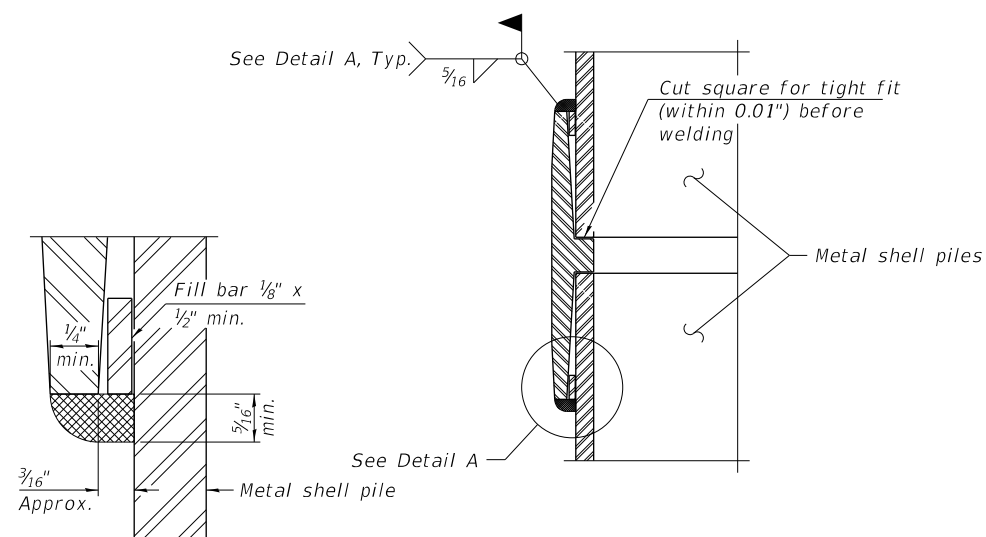
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	444
				CONTRACT NO. 61193
		ILLINOIS	FED. AID PROJECT	





**METAL SHELL PILE TABLE**

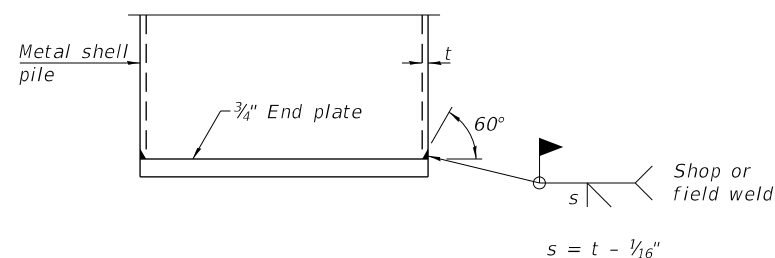
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



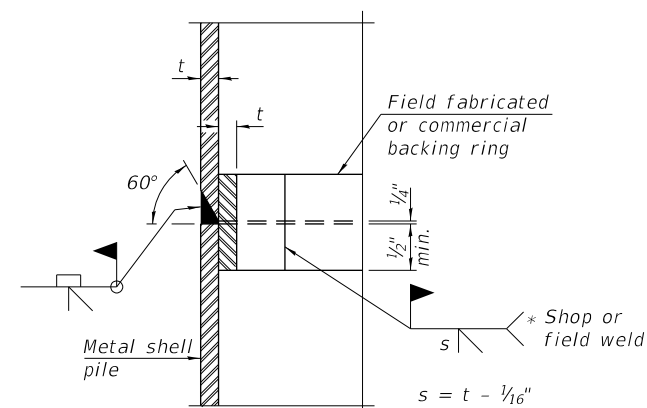
**DETAIL A**

**WELDED COMMERCIAL SPLICE**

Notes:  
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

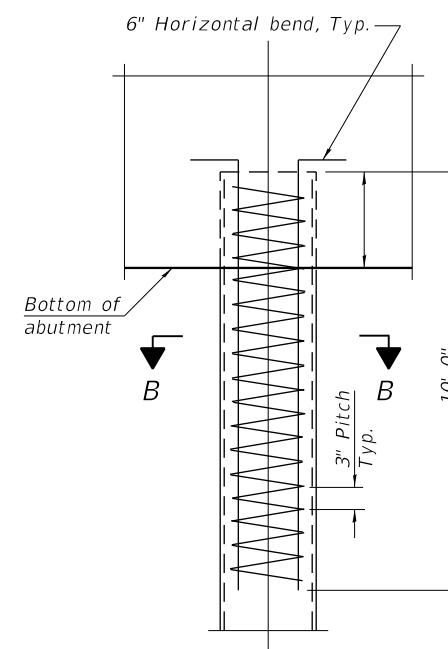


**END PLATE ATTACHMENT**

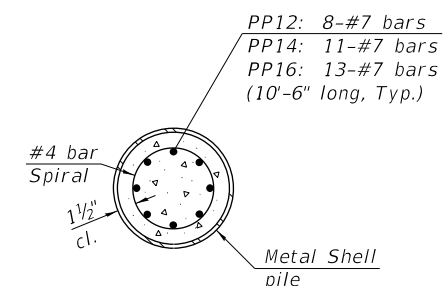


**COMPLETE PENETRATION WELD SPLICE**

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



**ELEVATION**



**SECTION B-B**

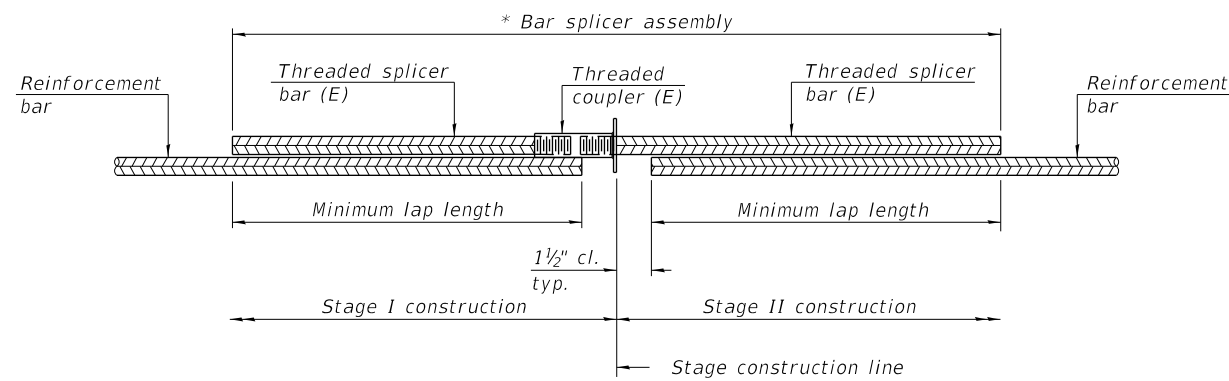
**REINFORCEMENT AT ABUTMENTS**

(Omit when concrete encasement is specified)

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

USER NAME = Mibeening	DESIGNED - CCF	REVISED -
	DRAWN - DMH	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - CCF	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	445
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

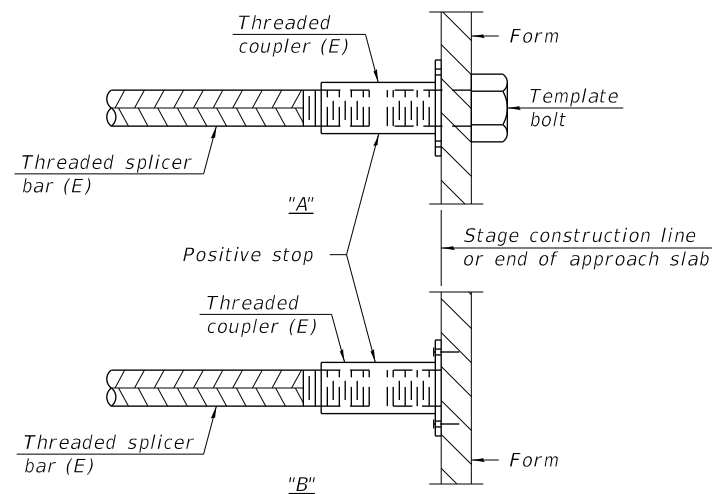


**STANDARD BAR SPICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	472	3'-6"
South Approach Slab	#5	107	3'-2"
South Approach Footing	#5	40	3'-2"
North Approach Slab	#5	107	3'-2"
North Approach Footing	#5	40	3'-2"
Abutment Diaphragms	#6	8	2'-9"
Pier Diaphragms	#6	8	2'-9"
Abutments	#7	20	3'-2"
Pier Caps	#7	20	3'-2"
Pier Walls	#4	40	1'-10"

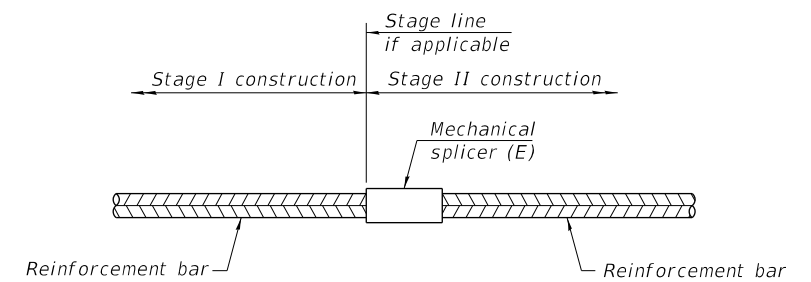


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPICER**

Location	Bar size	No. assemblies required

**Notes:**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

USER NAME = Mibeening	DESIGNED - SN	REVISED -
	DRAWN - SN	REVISED -
PLOT SCALE = 2,000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPICER ASSEMBLY AND MECHANICAL SPICER DETAILS  
 STRUCTURE NO. 056-3301**

SHEET 51-41 OF 51-47 SHEETS

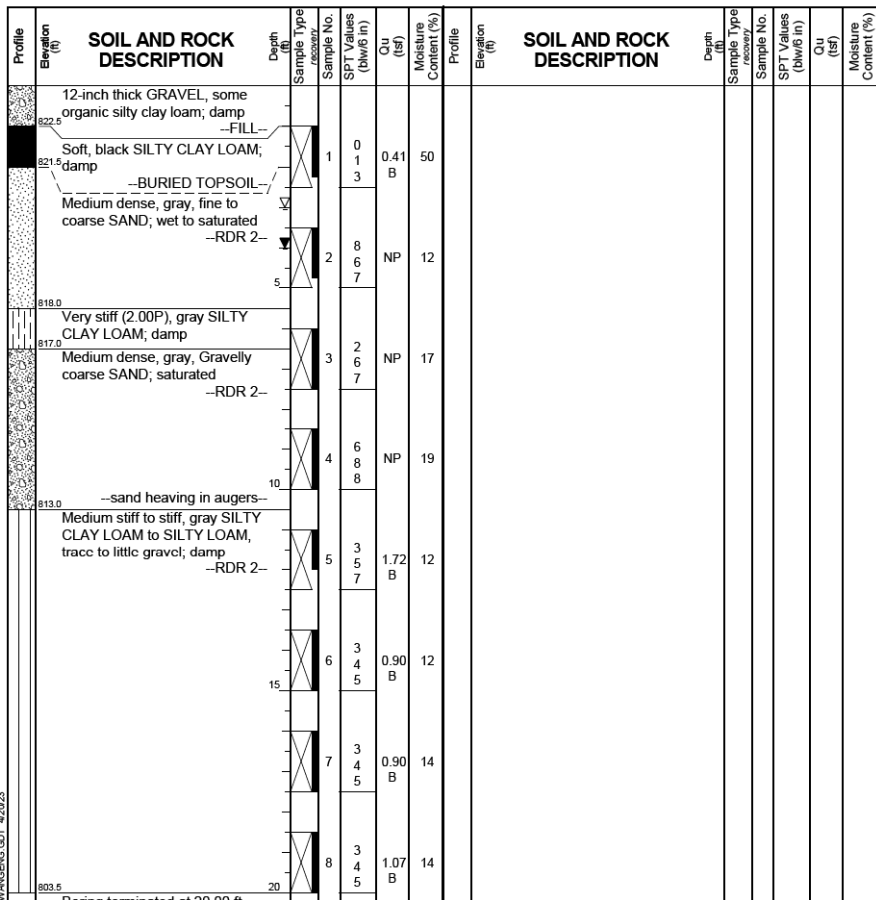
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	446
				CONTRACT NO. 61193
		ILLINOIS	FED. AID PROJECT	

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**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**BORING LOG NB3-01** Page 1 of 1  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 823.55 ft  
 North: 2010249.76 ft  
 East: 983715.98 ft  
 Station: 2227+98.15  
 Offset: 74.0263 RT



**GENERAL NOTES**  
 Begin Drilling: 04-16-2021 Complete Drilling: 04-16-2021  
 Drilling Contractor: Wang Testing Services Drill Rig: \_\_\_\_\_  
 Driller: A&M Logger: M. Sadowski Checked by: C. Marin  
 Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

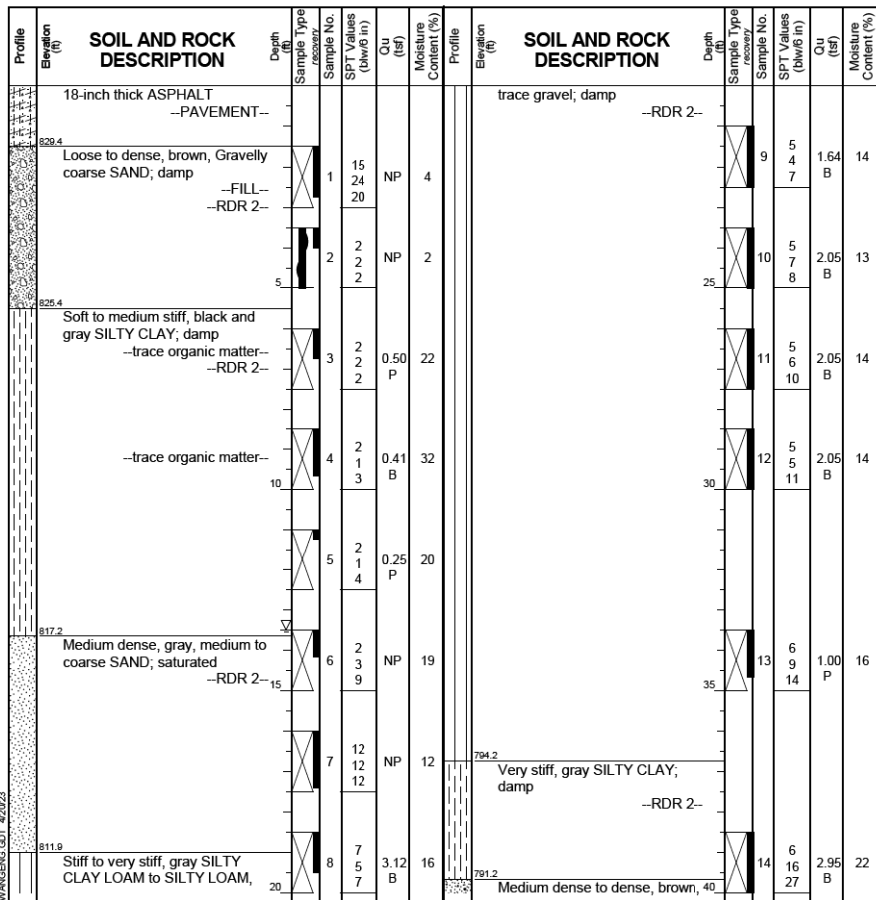
**WATER LEVEL DATA**  
 While Drilling: 3.00 ft  
 At Completion of Drilling: 4.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

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

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**BORING LOG NB3-02** Page 1 of 2  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 830.91 ft  
 North: 2010259.21 ft  
 East: 983697.24 ft  
 Station: 2227+98.09  
 Offset: 55.5023 RT



**GENERAL NOTES**  
 Begin Drilling: 04-26-2021 Complete Drilling: 04-26-2021  
 Drilling Contractor: Wang Testing Services Drill Rig: \_\_\_\_\_  
 Driller: R&J Logger: I. Nenn Checked by: C. Marin  
 Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

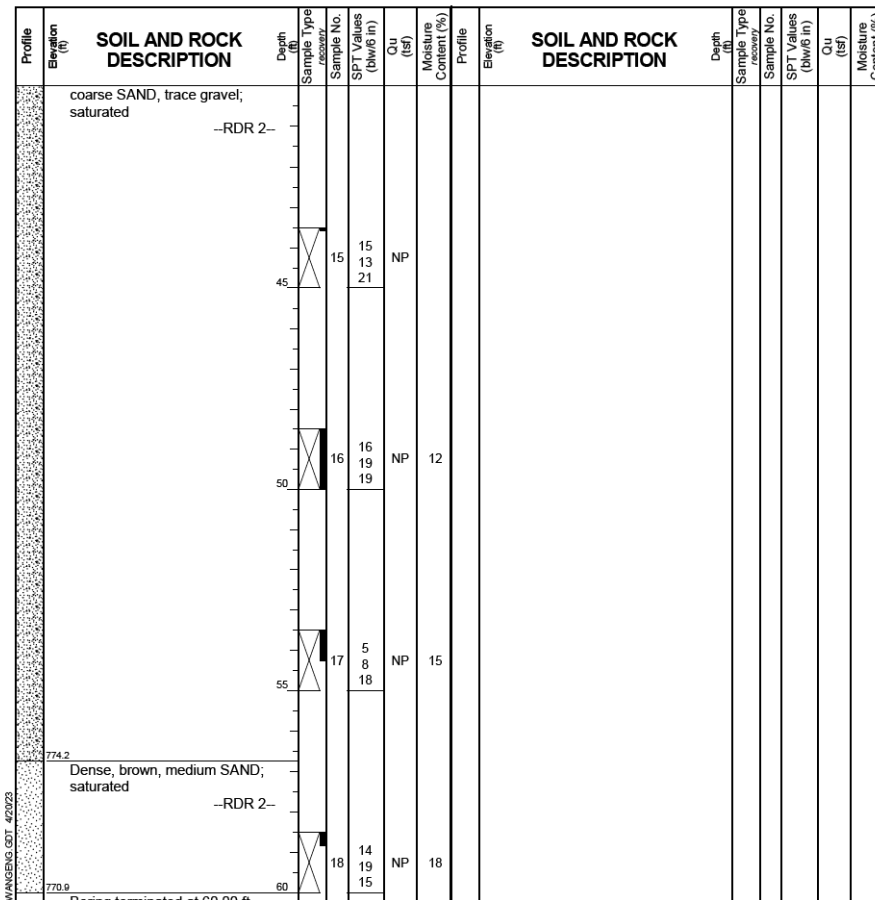
**WATER LEVEL DATA**  
 While Drilling: 13.50 ft  
 At Completion of Drilling: MUD  
 Time After Drilling: NA  
 Depth to Water: NA

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

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**BORING LOG NB3-02** Page 2 of 2  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 830.91 ft  
 North: 2010259.21 ft  
 East: 983697.24 ft  
 Station: 2227+98.09  
 Offset: 55.5023 RT



**GENERAL NOTES**  
 Begin Drilling: 04-26-2021 Complete Drilling: 04-26-2021  
 Drilling Contractor: Wang Testing Services Drill Rig: \_\_\_\_\_  
 Driller: R&J Logger: I. Nenn Checked by: C. Marin  
 Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling: 13.50 ft  
 At Completion of Drilling: MUD  
 Time After Drilling: NA  
 Depth to Water: NA

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

USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS 1  
 STRUCTURE NO. 056-3301**

SHEET 51-42 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	447
CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

FILE NAME: p:\w\h\m\01\p\c\transyscorp.com\transyscorp\p\w\1\Documents\Projects\CH401 - Chicago\140.0000\44.0000\44.0000\Contract\_2\Sheet\_Files\33\_Structural\_Sheets\TSC\_Sheet33\_056-3301 - Randall Road over Woods Creek\0563301-62\93-043-BoringLog2.dwg  
 WANGENIC 790701.GPJ WANGENG.GDT 4/20/23

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG RR-NB-28**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 832.02 ft  
 North: 2010132.18 ft  
 East: 983698.70 ft  
 Station: 2226+71.06  
 Offset: 48.62 RT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
830.9	14-inch thick, ASPHALT --PAVEMENT--												
830.0	10-inch thick, brown SANDY GRAVEL --BASE COURSE--	1	6	3	2.50	14							
827.8	Stiff to very stiff, black and dark gray CLAY LOAM, trace gravel --FILL--	2	12	14	1.00	22							
825.5	Loose, black SILTY LOAM, trace organic matter, roots and shells, moist sand lenses	3	6	4	NP	29							
823.4	Medium stiff, black, brown, and gray SILTY CLAY, trace organic matter, roots	4	2	2	0.82	19							
821.0	Medium dense, gray, medium SAND --WET--	5	7	7	NP	19							
	Boring terminated at 11.00 ft												

**GENERAL NOTES**  
 Begin Drilling **07-18-2014** Complete Drilling **07-18-2014**  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **R & J** Logger **A. Tomaras** Checked by **C. Marin**  
 Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**  
 While Drilling **8.75 ft**  
 At Completion of Drilling **8.75 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.

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**BORING LOG SB2-02**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 823.16 ft  
 North: 2010083.29 ft  
 East: 983593.36 ft  
 Station: 2226+24.56  
 Offset: 57.78 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
822.2	12-inch thick, black SILTY LOAM --TOPSOIL--	1	1	1	0.75	42							
820.2	Medium stiff, brown and gray SILTY CLAY LOAM, trace organic matter	2	3	3	0.50	16							
819.2	Medium stiff, brown and gray SILTY CLAY LOAM, trace gravel	3	10	15	NP	12							
811.4	Medium dense to dense, gray medium to coarse SAND, trace to little gravel, silt seams; wet	4	8	9	NP	13							
806.2	Medium dense to dense, brown and gray medium to coarse SAND, trace gravel; wet	5	3	7	0.66	15							
796.2	Medium dense to dense, brown and gray medium to coarse SAND, trace gravel; wet	6	2	4	1.72	13							
788.2	Medium stiff to stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	7	2	4	1.80	13							
786.2	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	8	3	6	2.13	16							
	Boring terminated at 40.00 ft												

**GENERAL NOTES**  
 Begin Drilling **03-11-2015** Complete Drilling **03-11-2015**  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**  
 Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**  
 While Drilling **5.00 ft**  
 At Completion of Drilling **4.00 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.

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**BORING LOG SB2-03**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.54 ft  
 North: 2010264.14 ft  
 East: 983586.45 ft  
 Station: 2228+04.38  
 Offset: 62.09 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
824.5	12-inch thick, dark brown SILTY CLAY --TOPSOIL--	1	3	3	1.75	35							
820.0	Medium stiff to very stiff, dark brown SILTY CLAY, trace gravel and organic matter	2	4	9	0.75	31							
820.0	Loose to medium dense, brown and gray SANDY LOAM to SAND, trace to little gravel; wet to saturated	3	2	2	NP	17							
788.8	Medium dense, brown, medium to coarse SAND, trace gravel; wet	4	5	4	NP	26							
785.5	Medium dense, brown, medium to coarse SAND, trace gravel; wet	5	5	5	NP	26							
785.5	Medium dense, brown, medium to coarse SAND, trace gravel; wet	6	5	9	NP	17							
785.5	Medium dense, brown, medium to coarse SAND, trace gravel; wet	7	10	12	NP	21							
785.5	Medium dense, brown, medium to coarse SAND, trace gravel; wet	8	8	9	NP	13							
	Boring terminated at 40.00 ft												

**GENERAL NOTES**  
 Begin Drilling **03-06-2015** Complete Drilling **03-09-2015**  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **K & K** Logger **D. Kolpacki/A. Happel** Checked by **A. Hamad**  
 Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**  
 While Drilling **5.50 ft**  
 At Completion of Drilling **13.00 ft**  
 Time After Drilling **24 hrs hours**  
 Depth to Water **15.00 ft**

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

USER NAME = Mibeening	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

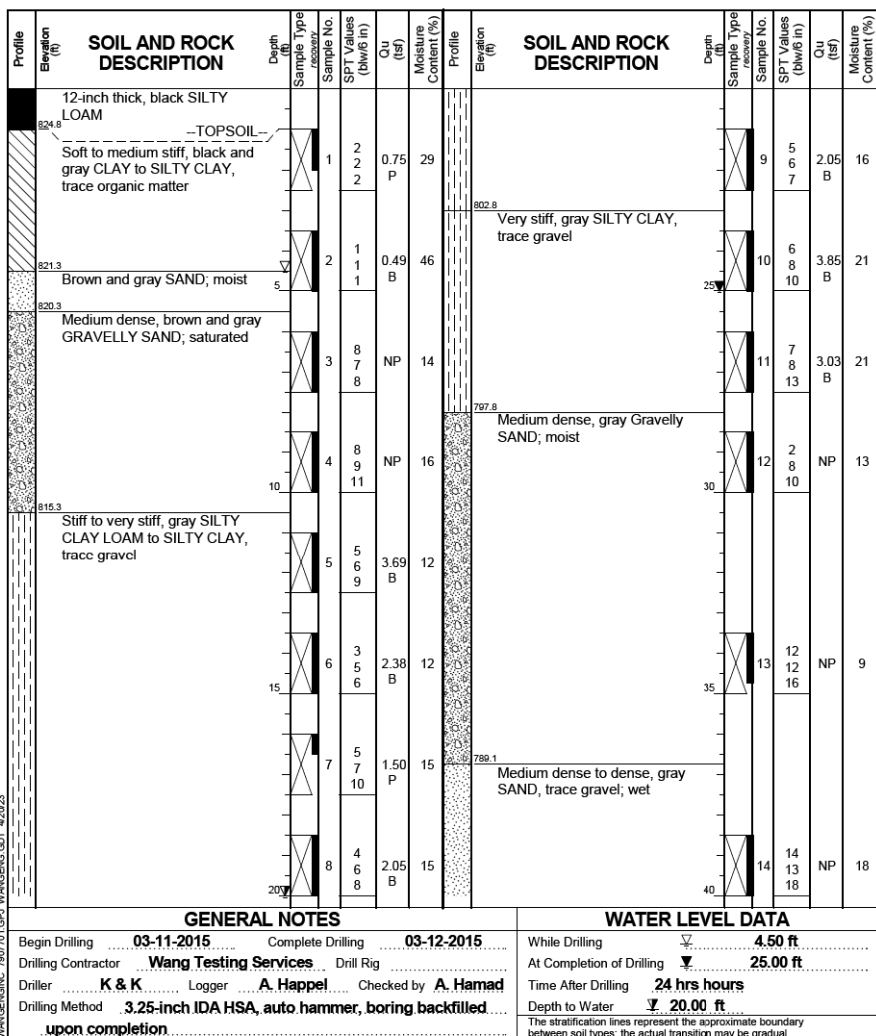
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS 2  
 STRUCTURE NO. 056-3301**

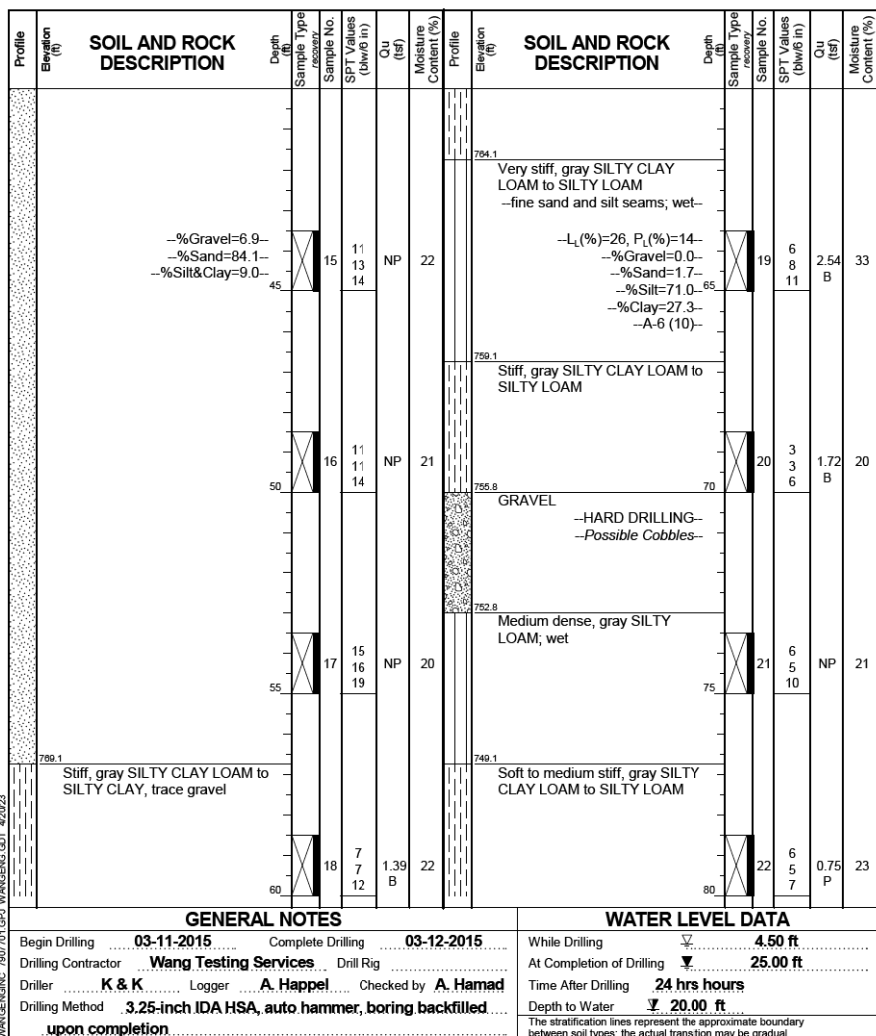
SHEET 51-43 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	448
CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

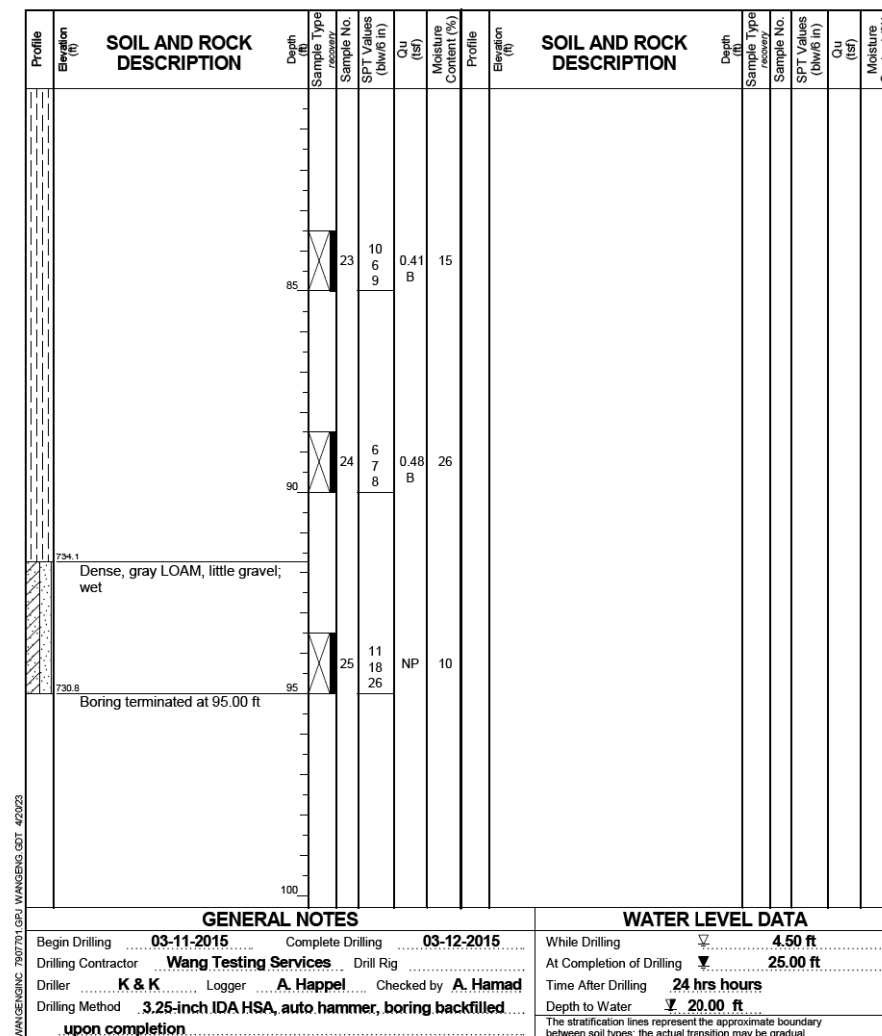
<p>wangeng@wangeng.com</p> <p>Telephone: _____ Fax: _____</p>	<h3>BORING LOG WCB-01</h3> <p>WEI Job No.: KE225090</p> <p>Client: <b>TransSystems Corporation</b></p> <p>Project: <b>Randall Road Phase II Improvements</b></p> <p>Location: <b>McHenry County, IL</b></p>	Datum: NAVD88 Elevation: 825.84 ft North: 2010134.22 ft East: 983595.39 ft Station: 2226+75.08 Offset: 54.63 LT
	Page 1 of 3	



<p>wangeng@wangeng.com</p> <p>Telephone: _____ Fax: _____</p>	<h3>BORING LOG WCB-01</h3> <p>WEI Job No.: KE225090</p> <p>Client: <b>TransSystems Corporation</b></p> <p>Project: <b>Randall Road Phase II Improvements</b></p> <p>Location: <b>McHenry County, IL</b></p>	Datum: NAVD88 Elevation: 825.84 ft North: 2010134.22 ft East: 983595.39 ft Station: 2226+75.08 Offset: 54.63 LT
	Page 2 of 3	

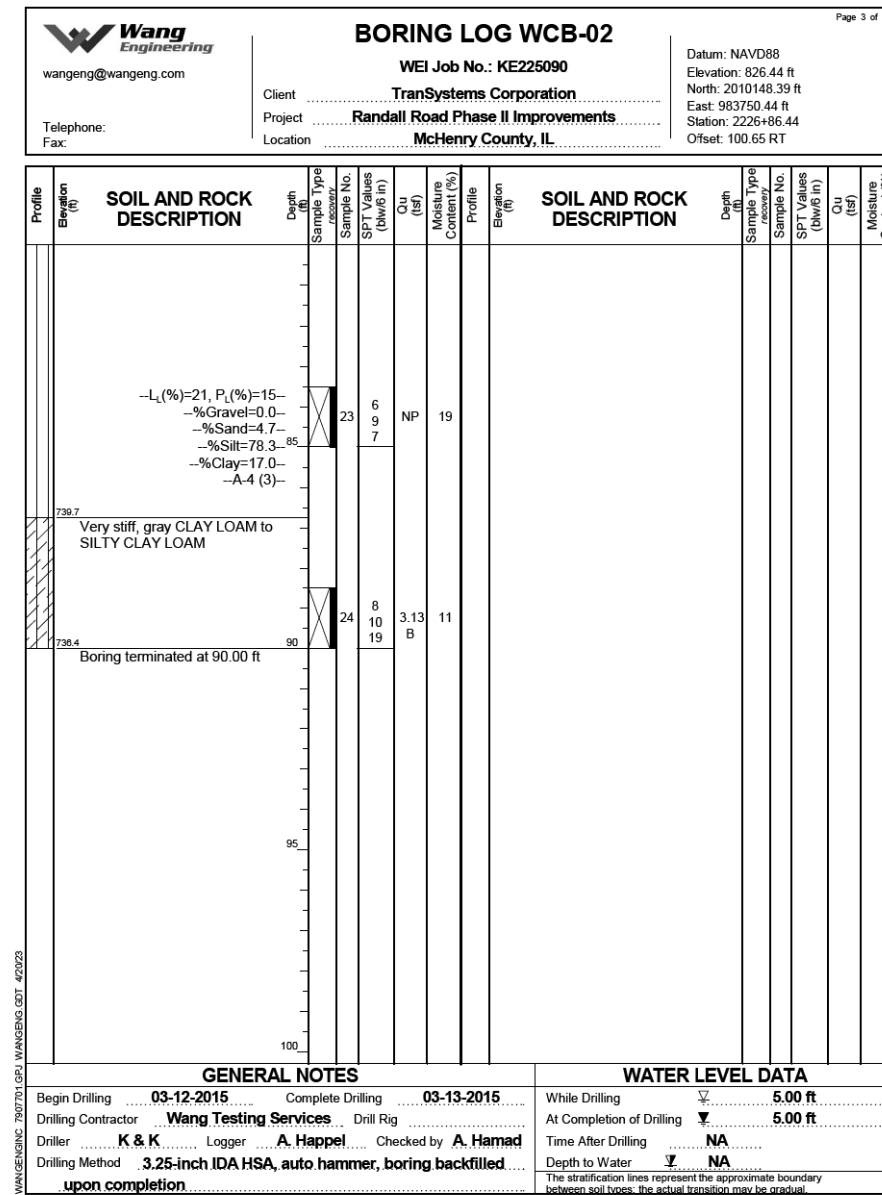
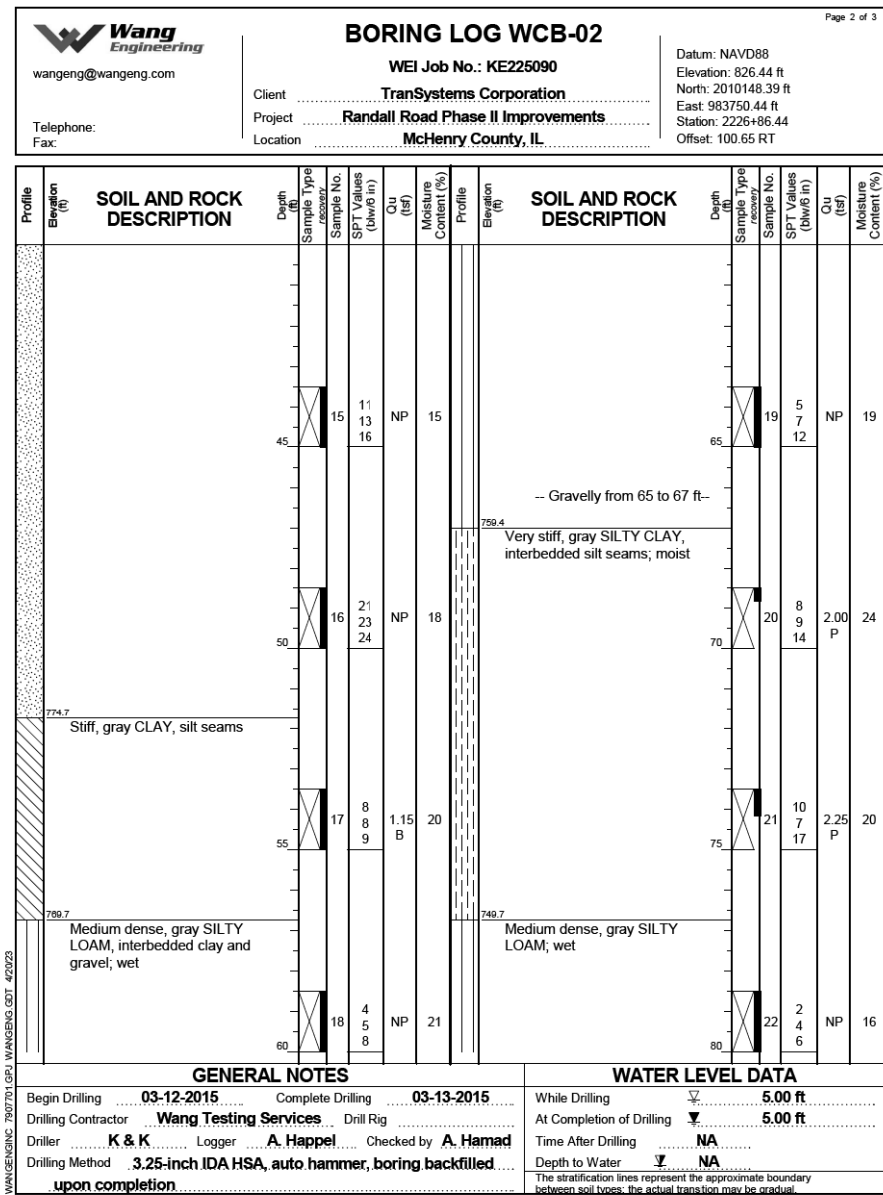
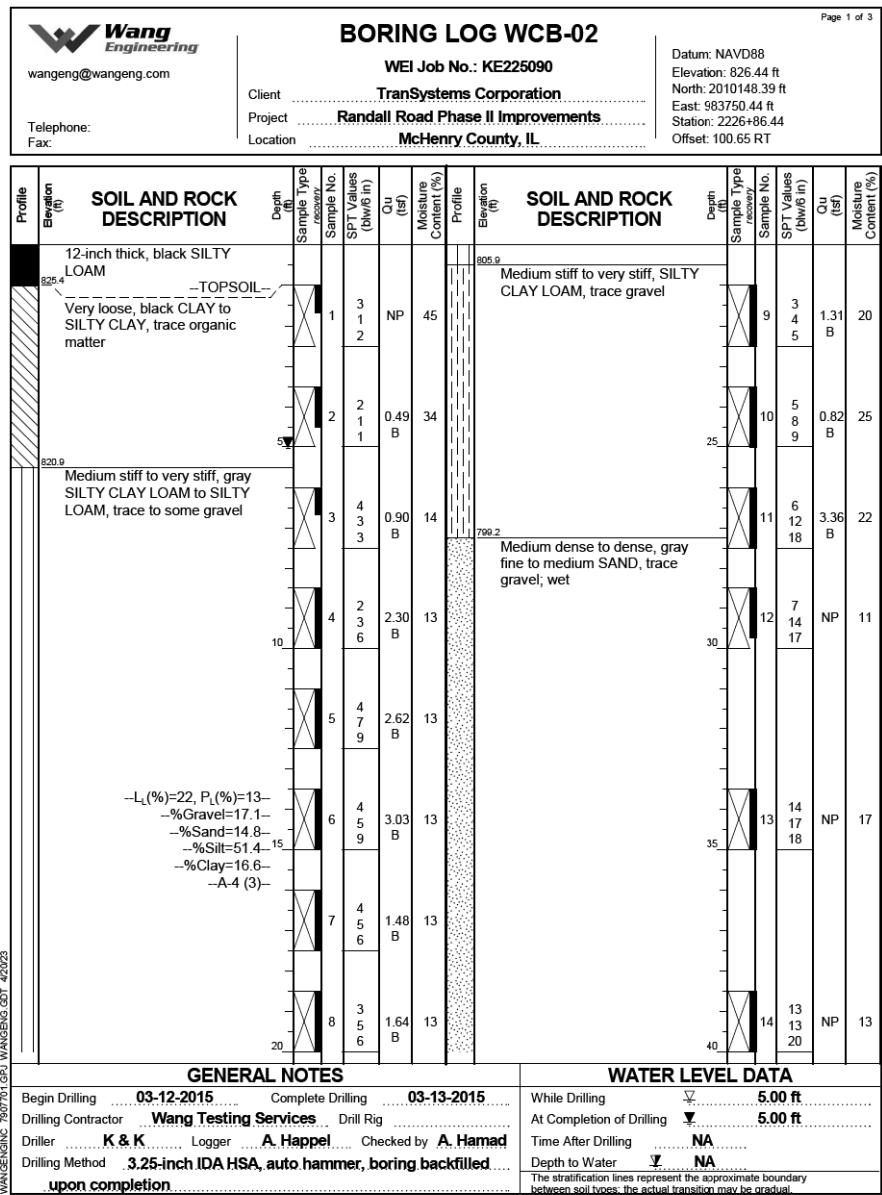


<p>wangeng@wangeng.com</p> <p>Telephone: _____ Fax: _____</p>	<h3>BORING LOG WCB-01</h3> <p>WEI Job No.: KE225090</p> <p>Client: <b>TransSystems Corporation</b></p> <p>Project: <b>Randall Road Phase II Improvements</b></p> <p>Location: <b>McHenry County, IL</b></p>	Datum: NAVD88 Elevation: 825.84 ft North: 2010134.22 ft East: 983595.39 ft Station: 2226+75.08 Offset: 54.63 LT
	Page 3 of 3	



USER NAME = Mibeening	DESIGNED - IS	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>BORING LOGS 3          STRUCTURE NO. 056-3301</b>	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -			336	06-00329-02-PW	MCHENRY	735	449
PLOT DATE = 6/12/2024	DATE = 6/14/2024	REVISED -			CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

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USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - IS	REVISED -
PLOT DATE = 6/12/2024	CHECKED - TJA	REVISED -
	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4  
STRUCTURE NO. 056-3301

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	450
CONTRACT NO. 61193				

SHEET 51-45 OF 51-47 SHEETS

ILLINOIS FED. AID PROJECT

FILE NAME: p:\w\h\m\01\p\c\transys\corp\com\transys\corp\p\w\1\Documents\Projects\CH401 - Chicago\B410.113006\140.0000\44.0000\44.0000\Contract\_2\Sheet\_Files\33\_Structural\_Sheets\TSC\_Sheet15N\_056-3301 - Randall Road over Woods Creek\0563301-62\B3-046-BoringLog5.dgn

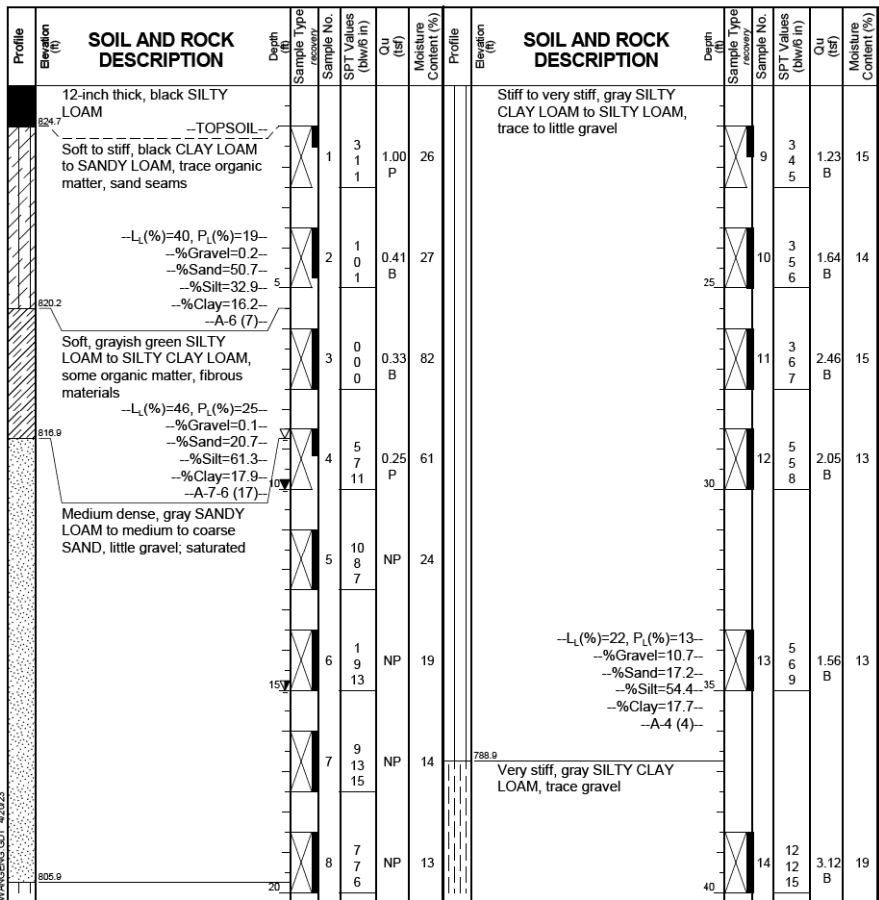
**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG WCB-03** Page 1 of 3

WEI Job No.: KE225090

Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.69 ft  
 North: 2010222.82 ft  
 East: 983605.01 ft  
 Station: 2227+63.00  
 Offset: 43.82 LT



**GENERAL NOTES**

Begin Drilling 03-09-2015 Complete Drilling 03-10-2015

Drilling Contractor **Wang Testing Services** Drill Rig

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling 8.75 ft

At Completion of Drilling 10.00 ft

Time After Drilling 24 hrs hours

Depth to Water 15.00 ft

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

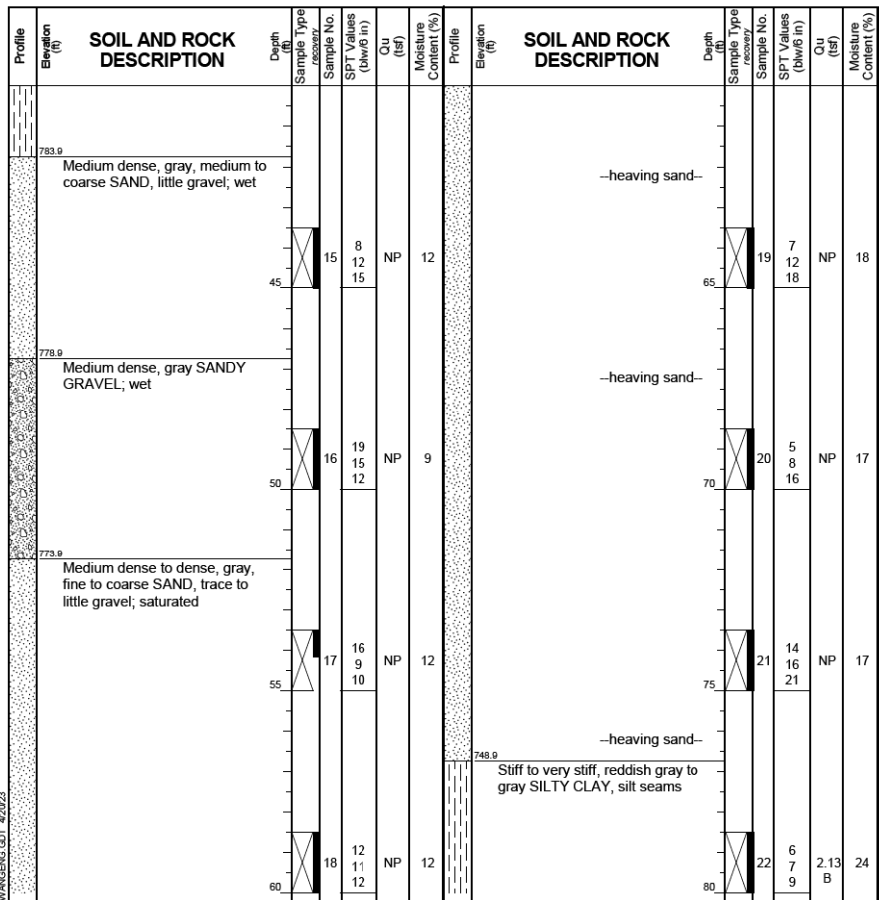
**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG WCB-03** Page 2 of 3

WEI Job No.: KE225090

Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.69 ft  
 North: 2010222.82 ft  
 East: 983605.01 ft  
 Station: 2227+63.00  
 Offset: 43.82 LT



**GENERAL NOTES**

Begin Drilling 03-09-2015 Complete Drilling 03-10-2015

Drilling Contractor **Wang Testing Services** Drill Rig

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling 8.75 ft

At Completion of Drilling 10.00 ft

Time After Drilling 24 hrs hours

Depth to Water 15.00 ft

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

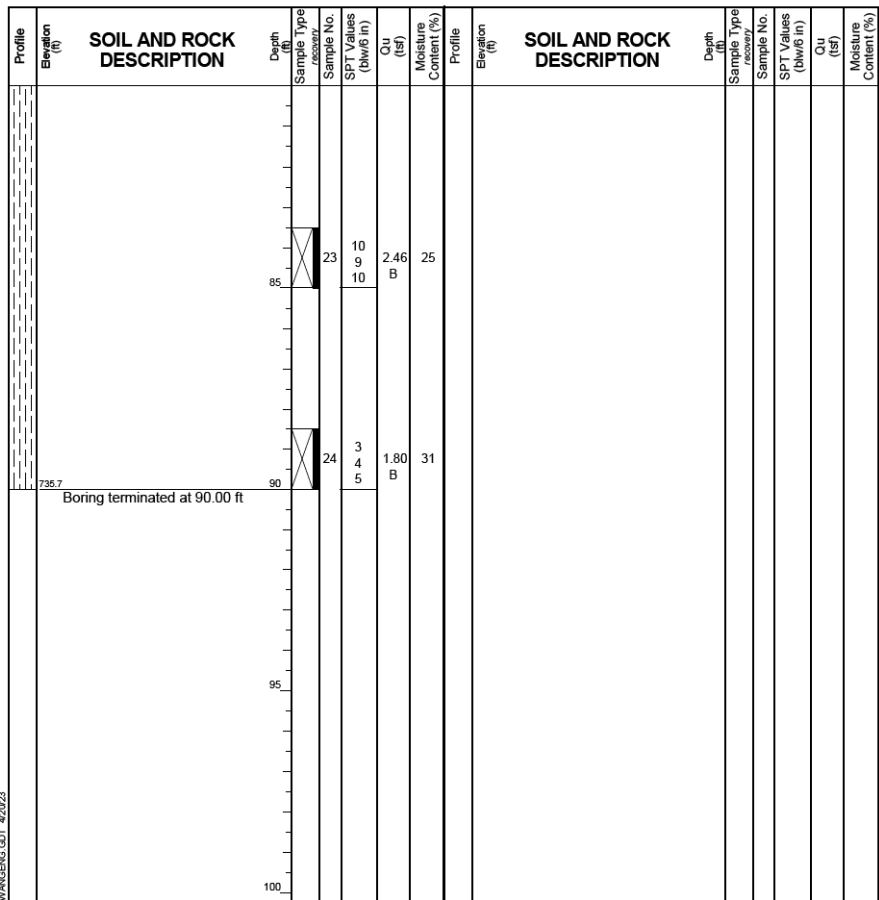
**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG WCB-03** Page 3 of 3

WEI Job No.: KE225090

Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.69 ft  
 North: 2010222.82 ft  
 East: 983605.01 ft  
 Station: 2227+63.00  
 Offset: 43.82 LT



**GENERAL NOTES**

Begin Drilling 03-09-2015 Complete Drilling 03-10-2015

Drilling Contractor **Wang Testing Services** Drill Rig

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling 8.75 ft

At Completion of Drilling 10.00 ft

Time After Drilling 24 hrs hours

Depth to Water 15.00 ft

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

USER NAME = Mibeening	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BORING LOGS 5**  
**STRUCTURE NO. 056-3301**

SHEET 51-46 OF 51-47 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	451
CONTRACT NO. 61193				
ILLINOIS FED. AID PROJECT				

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**BORING LOG WCB-04**  
 WEI Job No.: KE225090  
 Client: **TranSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 831.06 ft  
 North: 2010219.95 ft  
 East: 983693.28 ft  
 Station: 2227+59.40  
 Offset: 44.43 RT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
829.8	15-inch thick, ASPHALT -PAVEMENT-						810.6	Stiff to very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel					
827.3	Dense, brown medium SAND, little gravel, dry -FILL-	1	30	20	15	NP			9	5	6	5	1.56 B
824.4	Stiff to very stiff, black, and gray SILTY CLAY LOAM, trace gravel and sand seams -FILL-	2	4	3	3	2.50 P			10	3	3	5	1.72 B
823.1	Gray SAND; moist	3	2	4	5	1.25 P			11	6	6	9	2.05 B
820.6	Soft black, gray, and green CLAY to SILTY CLAY	4	5	3	5	0.25 P			12	4	6	7	1.07 B
819.1	Stiff, gray SILTY CLAY LOAM	5	7	4	9	1.25 P	788.3	Hard, gray SILTY CLAY LOAM, trace gravel					
815.6	Medium dense, gray fine to medium SAND; wet	6	9	8	13	NP			13	3	7	9	4.35 B
	Medium dense, gray Gravelly SAND; wet -%Gravel=30.0- -%Sand=48.8- -%Silt=18.0- -%Clay=3.1- -A-2.4 (0)-	7	13	10	6	NP	784.3	Medium dense to dense, gray Gravelly SAND; wet					
		8	4	10	12	NP			14	9	7	7	NP

<b>GENERAL NOTES</b>				<b>WATER LEVEL DATA</b>			
Begin Drilling	03-16-2015	Complete Drilling	03-17-2015	While Drilling	12.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig		At Completion of Drilling	10.00 ft		
Driller	K & K	Logger	A. Happel	Checked by	A. Hamad		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Time After Drilling	24 hrs hours		
				Depth to Water	14.00 ft		
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**BORING LOG WCB-04**  
 WEI Job No.: KE225090  
 Client: **TranSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 831.06 ft  
 North: 2010219.95 ft  
 East: 983693.28 ft  
 Station: 2227+59.40  
 Offset: 44.43 RT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
784.3	Medium dense to dense, gray fine to medium SAND, trace gravel, wet						788.1	Boring terminated at 65.00 ft					
		15	15	17	21	NP			19	11	15	22	NP
		16	15	17	18	NP							
		17	8	11	14	NP							
		18	13	13	16	NP							

<b>GENERAL NOTES</b>				<b>WATER LEVEL DATA</b>			
Begin Drilling	03-16-2015	Complete Drilling	03-17-2015	While Drilling	12.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig		At Completion of Drilling	10.00 ft		
Driller	K & K	Logger	A. Happel	Checked by	A. Hamad		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Time After Drilling	24 hrs hours		
				Depth to Water	14.00 ft		
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

USER NAME = Mibeening	DESIGNED - IS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - IS	REVISED -
PLOT DATE = 6/12/2024	CHECKED - TJA	REVISED -
	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS 6  
 STRUCTURE NO. 056-3301

SHEET 51-47 OF 51-47 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	452
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		



Bench Mark: Box cut in south corner of 12" concrete headwall over Woods Creek on the west side of Randall Road. Elev. 831.19.

Existing Structure: None

Traffic Control: Traffic to be maintained utilizing staged construction.

Salvage: None

**DESIGN SPECIFICATIONS**

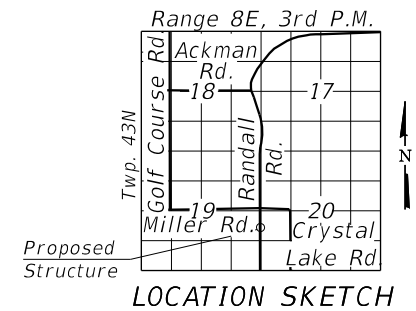
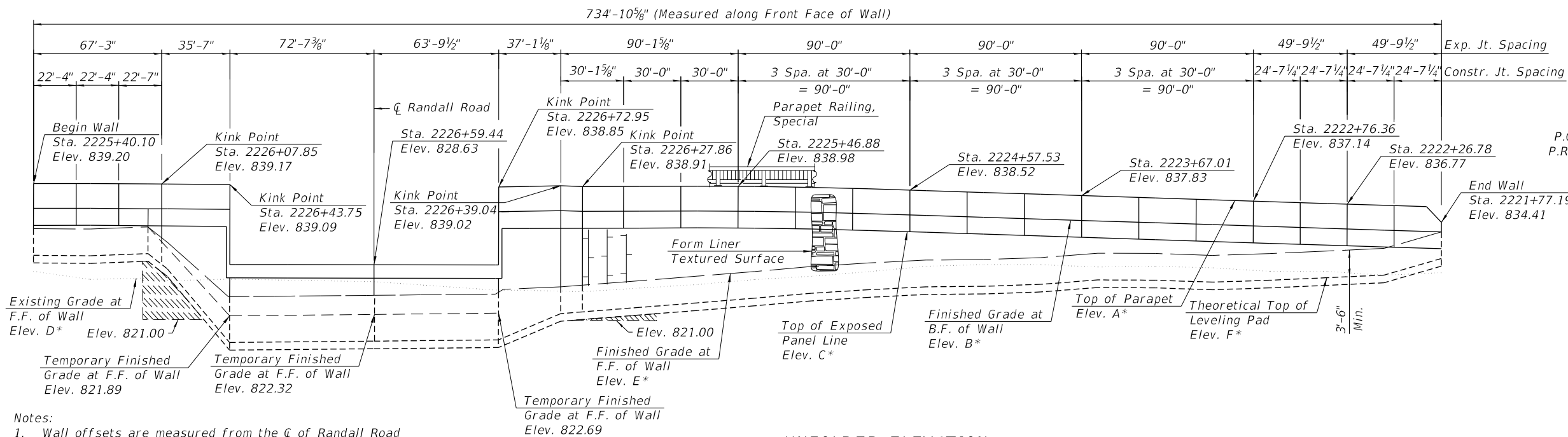
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**

**FIELD UNITS**  
 f'c = 4,000 psi  
 fy = 60,000 psi (Reinforcement)  
**PRECAST UNITS**  
 f'c = 4,500 psi

**CURVE DATA**

Prop. Curve PRRANDALL-01 P.I. Sta. = 2222+15.54 Δ = 3° 20' 00" (LT) D = 0° 42' 58" R = 8,000.00' T = 232.78' L = 465.44' E = 3.39' e = NC T.R. = NA S.E. = NA P.C. Sta. = 2219+82.75 P.R.C. Sta. = 2224+48.19	Prop. Curve PRRANDALL-02 P.I. = Sta. 2226+89.26 Δ = 3° 27' 07" (RT) D = 0° 42' 58" R = 8,000.00' T = 241.07' L = 482.00' E = 3.63' e = NC T.R. = NA S.E. = NA P.R.C. Sta. = 2224+48.19 P.T. Sta. = 2229+30.19
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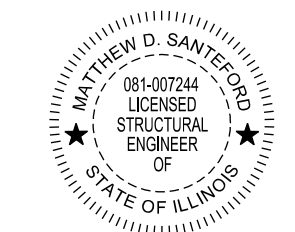
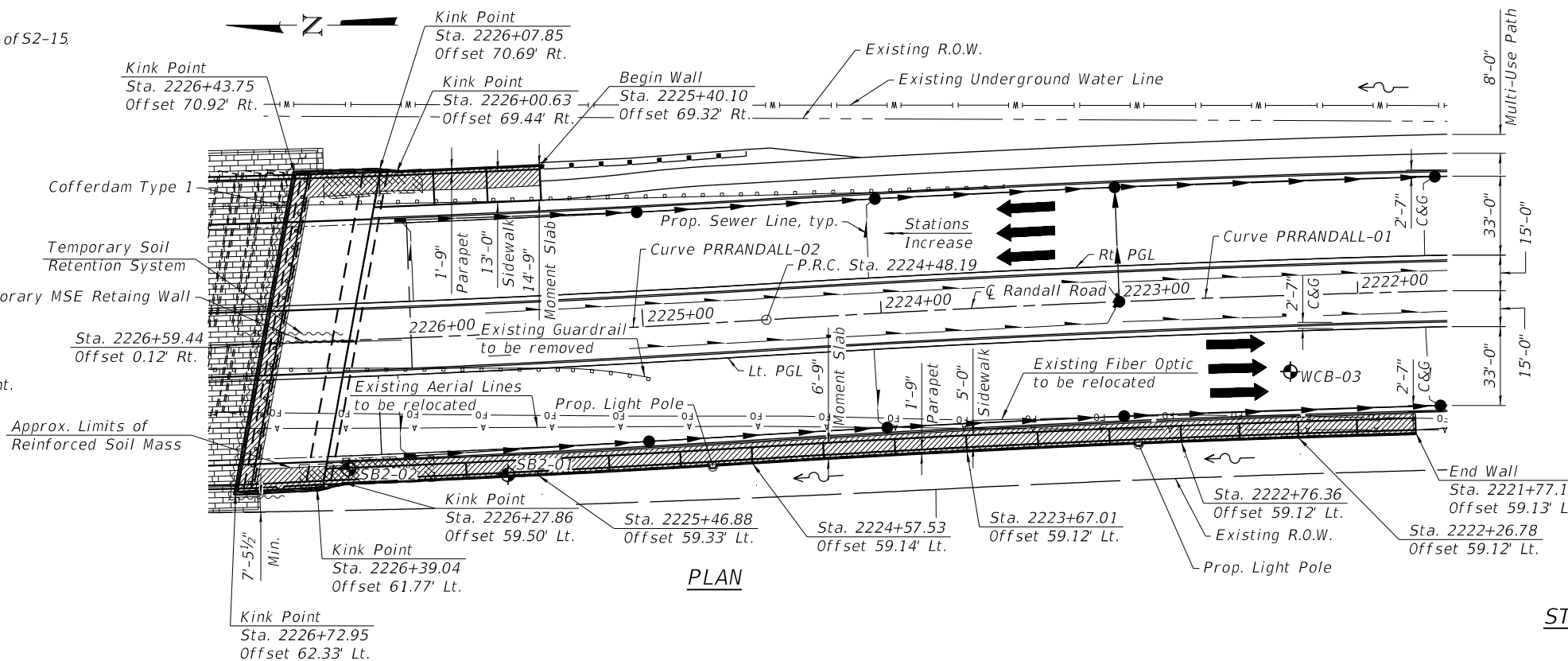


- Notes:
1. Wall offsets are measured from the  $\phi$  of Randall Road to the front face of wall.
  2. F.F. = Front Face of Wall
  3. B.F. = Back Face of Wall
  4. Wall to be built along straight chords between construction and expansion joints.

\* For Elevations, See Table 1 on Sheet S2-03 of S2-15.

**LEGEND**

- Ex. Aerial Lines
- Ex. Fiber Optic
- Ex. Underground Sanitary Sewer
- Ex. Underground Water Line
- Ex. Catch Basin
- Ex. Manhole
- ▨ Limits of Reinforced Soil Mass
- ▨ Limits of Removal of Unsuitable Material for Structures. Backfill with Porous Granular Embankment.
- Proposed Inlet
- ⊕ Soil Boring
- Proposed Catch Basin
- Proposed Manhole



Matthew D. Santeford, P.E., S.E.  
 NO. 081-007244  
 EXP. DATE 11/30/2024

"I certify that to the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current 'AASHTO LRFD Bridge Design Specifications'."

**GENERAL PLAN AND ELEVATION**  
**RETAINING WALL 1**  
**ALONG RANDALL ROAD**  
**F.A.P. RTE. 336**  
**SECTION 06-00329-02-PW**  
**MCHENRY COUNTY**  
**STATION 2221+77.19 TO 2226+72.95**  
**STRUCTURE NO. 056-W301**

**TRANSYSTEMS**  
 1475 EAST WOODFIELD ROAD, SUITE 600  
 SCHAMBURG, ILLINOIS 60173  
 (847) 605-9600

USER NAME = Mibeening	DESIGNED - JE	REVISED -
PLOT SCALE = 64.0000' / in.	DRAWN - JE	REVISED -
PLOT DATE = 6/12/2024	CHECKED - MDS	REVISED -
	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 056-W301**

SHEET S2-01 OF S2-15 SHEETS

F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 453
CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

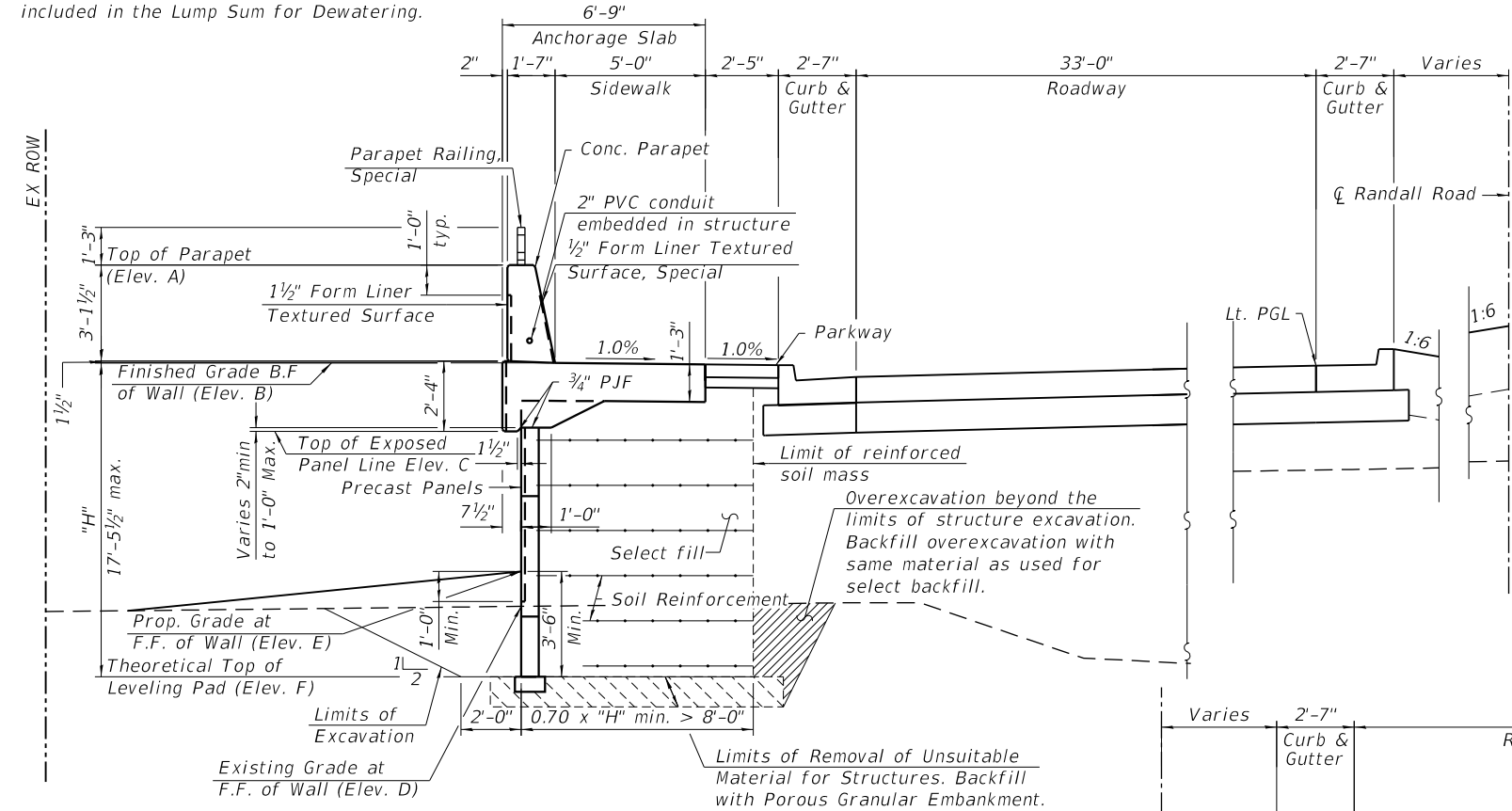
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Form Liner Textured Surface, Special shall be inset into the face of the barrier on the traffic side up to 1/2" deep and 1" wide.
3. The MSE wall supplier's internal stability design shall account for the moment slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 k/ft of wall.
4. Anti-Graffiti Coating shall be applied to all exposed faces of the parapet and the exposed area of the MSE wall panels.
5. Staining shall be applied to areas of Form Liner Textured Surface, Form Liner Textured Surface, Special, and the precast concrete panels of the MSE wall.
6. All dewatering necessary for the construction of this structure shall be according to the Special Provision for Dewatering and shall be included in the Lump Sum for Dewatering.

**INDEX OF SHEETS**

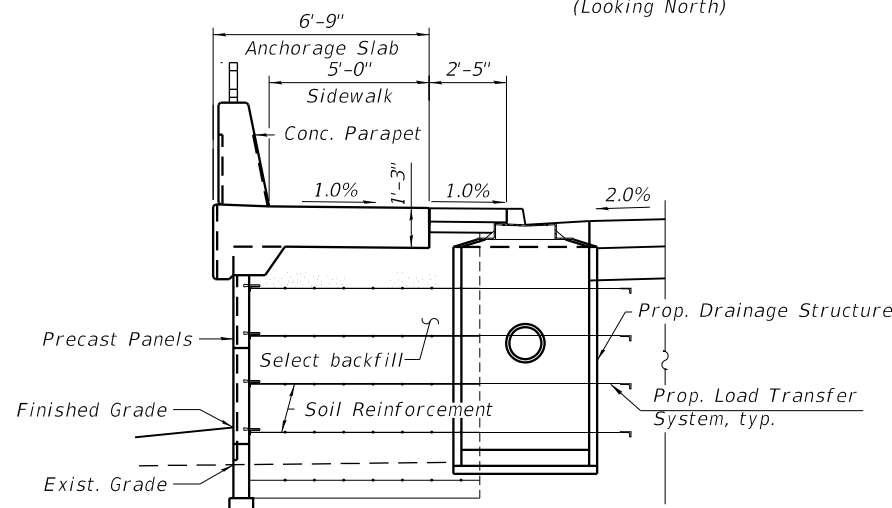
1. General Plan and Elevation
2. General Data 1
3. General Data 2
4. Anchorage Slab Plan and Elevation 1
5. Anchorage Slab Plan and Elevation 2
6. Anchorage Slab Plan and Elevation 3
7. Anchorage Slab Plan and Elevation 4
8. Anchorage Slab Section and Details 1
9. Anchorage Slab Section and Details 2
10. Railing Details
11. Boring Logs 1
12. Boring Logs 2
13. Boring Logs 3
14. Boring Logs 4
15. Boring Logs 5

**TOTAL BILL OF MATERIAL**

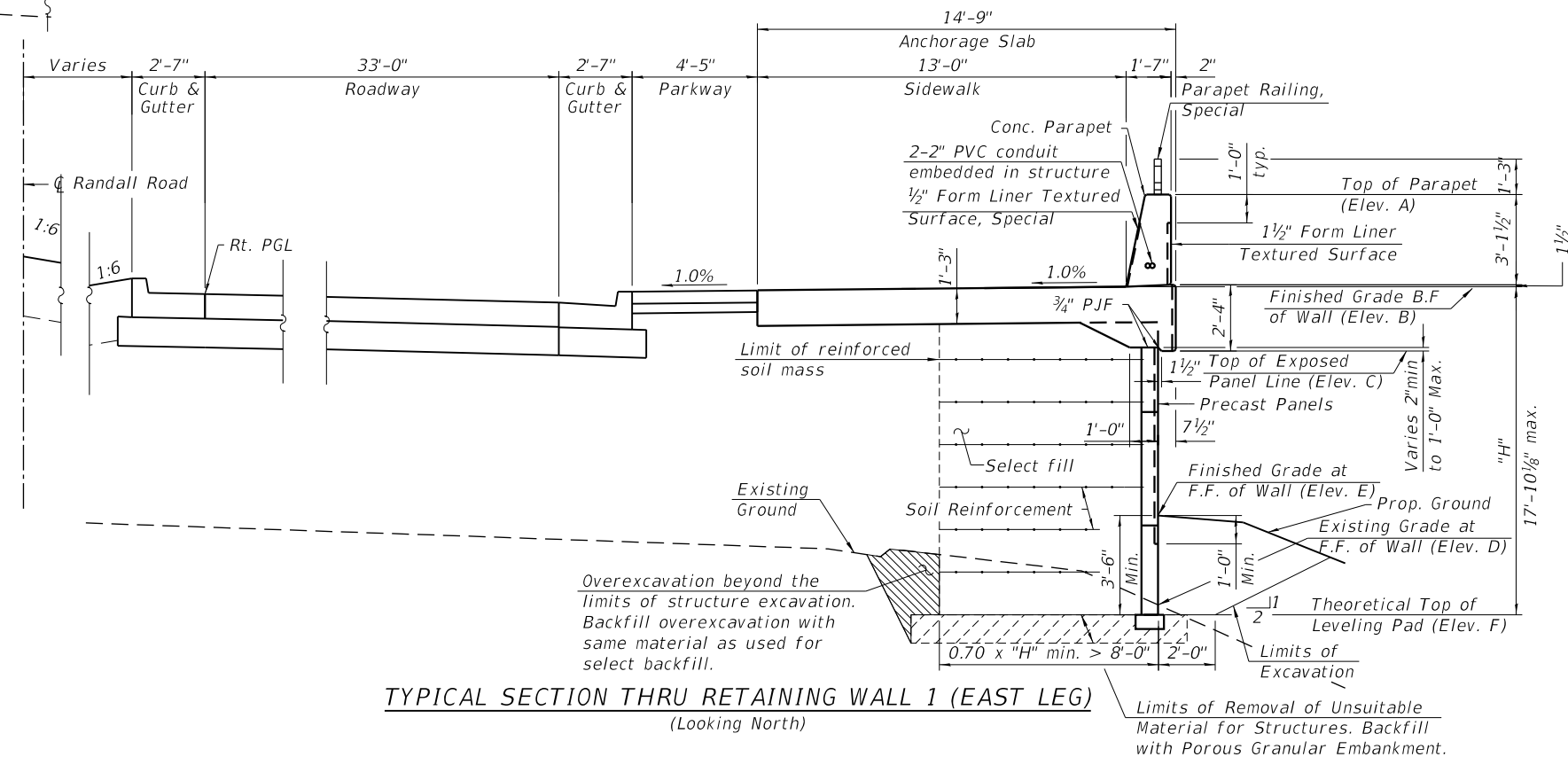
Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	110
Structure Excavation	Cu. Yd.	692
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	110
Concrete Superstructure	Cu. Yd.	327.1
Form Liner Textured Surface	Sq. Ft.	2,280
Protective Coat	Sq. Yd.	599
Reinforcement Bars, Epoxy Coated	Pound	51,070
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	6,610
Temporary Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	390
Anti-Graffiti Coating	Sq. Ft.	8,370
Form Liner Textured Surface, Special	Sq. Ft.	1,216
Staining Concrete Structures	Sq. Ft.	6,306
Parapet Railing, Special	Foot	529



**TYPICAL SECTION THRU RETAINING WALL 1 (WEST LEG)**  
(Looking North)



**DRAINAGE DETAIL AT BACK OF MSE WALL**  
(West leg shown, east leg similar)  
(Looking North)



**TYPICAL SECTION THRU RETAINING WALL 1 (EAST LEG)**  
(Looking North)

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 6.0000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA 1  
STRUCTURE NO. 056-W301**

SHEET 52-02 OF 52-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	454
			CONTRACT NO. 61193	

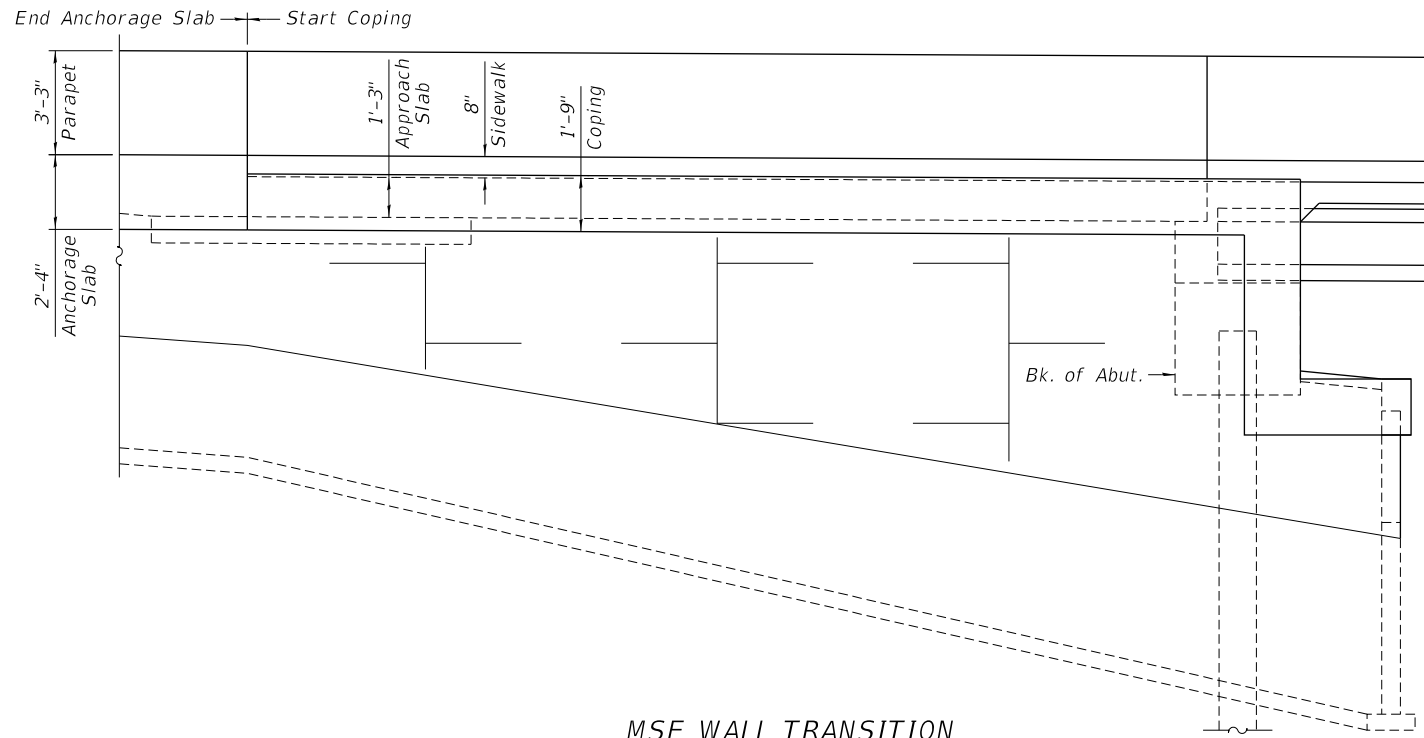
ILLINOIS FED. AID PROJECT

**TABLE 1 - WALL ELEVATIONS**

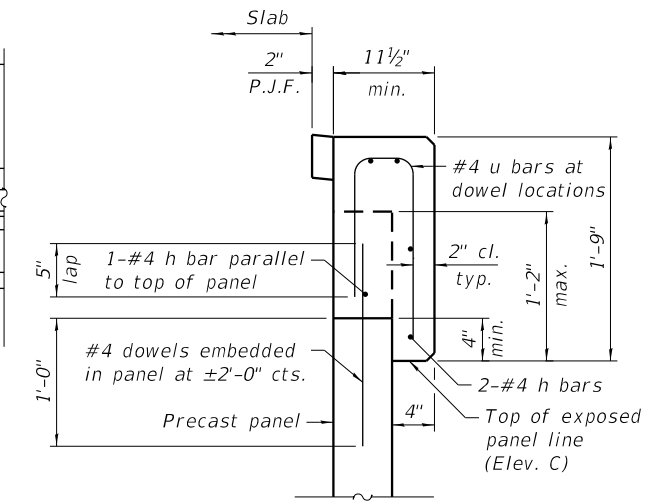
Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
2225+40.10	69.32' Rt.	839.20	835.95	833.72	827.70	833.30	829.80
2225+62.64	69.36' Rt.	839.23	835.98	833.75	826.65	833.13	829.63
2225+85.17	69.42' Rt.	839.17	835.96	833.69	826.85	833.49	829.99
2226+07.85	70.69' Rt.	839.17	835.92	834.17	826.50	832.05	828.55
2226+38.12	70.90' Rt.	839.12	835.87	834.12	826.70	825.59	822.09
2226+43.75	70.92' Rt.	839.09	835.84	834.09	826.72	824.39	818.39
2226+59.44	00.12' Rt.	-	828.63	826.88	826.05	824.82	818.82
2226+72.95	62.33' Lt.	838.85	835.60	833.85	825.34	825.19	819.19
2226+39.04	61.77' Lt.	838.87	835.77	834.02	825.35	825.77	822.27
2226+27.86	59.50' Lt.	839.02	835.66	833.45	825.11	826.00	822.50
2226+06.45	59.45' Lt.	838.91	835.67	833.46	825.49	826.43	822.93
2225+76.67	59.39' Lt.	838.95	835.74	833.53	825.97	827.03	823.53
2225+46.88	59.33' Lt.	838.99	835.73	833.52	826.56	827.64	824.14
2225+17.10	59.27' Lt.	838.96	835.64	833.44	827.09	828.30	824.80
2224+87.32	59.21' Lt.	838.86	835.49	833.28	827.58	828.85	825.35
2224+57.53	59.14' Lt.	838.68	835.27	833.06	828.46	829.25	825.75
2224+27.45	59.12' Lt.	838.46	835.04	832.83	828.71	829.41	825.91
2223+97.23	59.12' Lt.	838.23	834.81	832.60	828.86	829.53	826.03
2223+67.01	59.12' Lt.	838.00	834.58	832.37	828.56	830.13	826.63
2223+36.79	59.12' Lt.	837.77	834.35	832.14	828.56	830.34	826.84
2223+06.57	59.12' Lt.	837.54	834.12	831.91	828.44	830.07	826.57
2222+76.36	59.12' Lt.	837.31	833.89	831.69	828.08	830.21	826.71
2222+51.57	59.12' Lt.	837.08	833.71	831.50	828.05	830.42	826.92
2222+26.78	59.12' Lt.	836.85	833.52	831.31	827.71	830.80	827.30
2222+01.98	59.12' Lt.	836.62	833.33	831.12	827.62	831.02	827.52
2221+77.19	59.13' Lt.	834.41	833.16	830.95	827.81	833.16	829.66

Elev. A - Top of Parapet  
 Elev. B - Finished Grade at Back Face of Wall  
 Elev. C - Top of Exposed Panel Line  
 Elev. D - Existing Grade at Front Face of Wall  
 Elev. E - Finished Grade at Front Face of Wall  
 Elev. F - Theoretical Top of Leveling Pad

\* Overexcavation beyond the limits of structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.

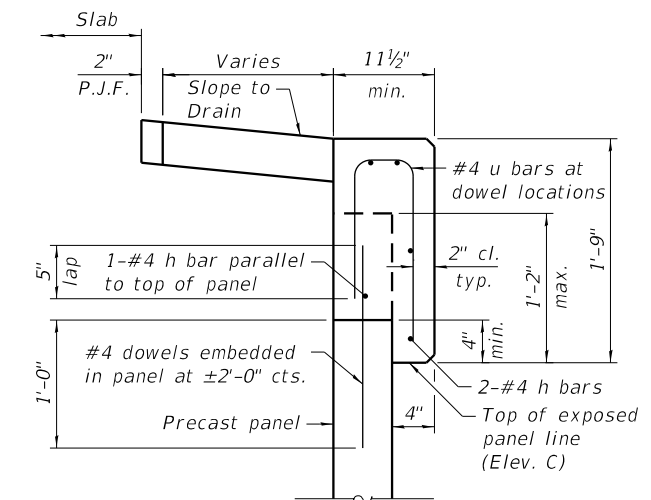


**MSE WALL TRANSITION**

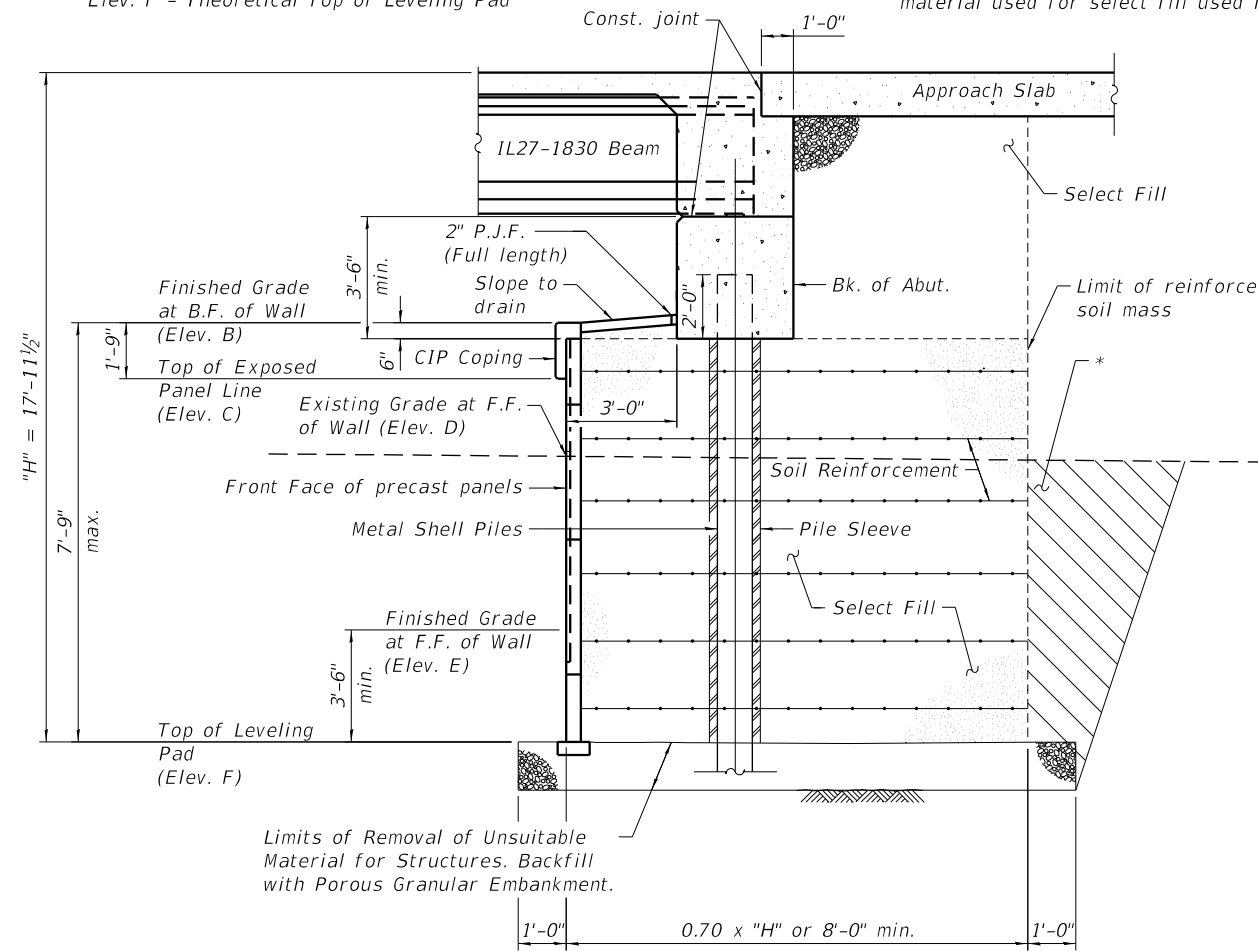


**COPING DETAIL**

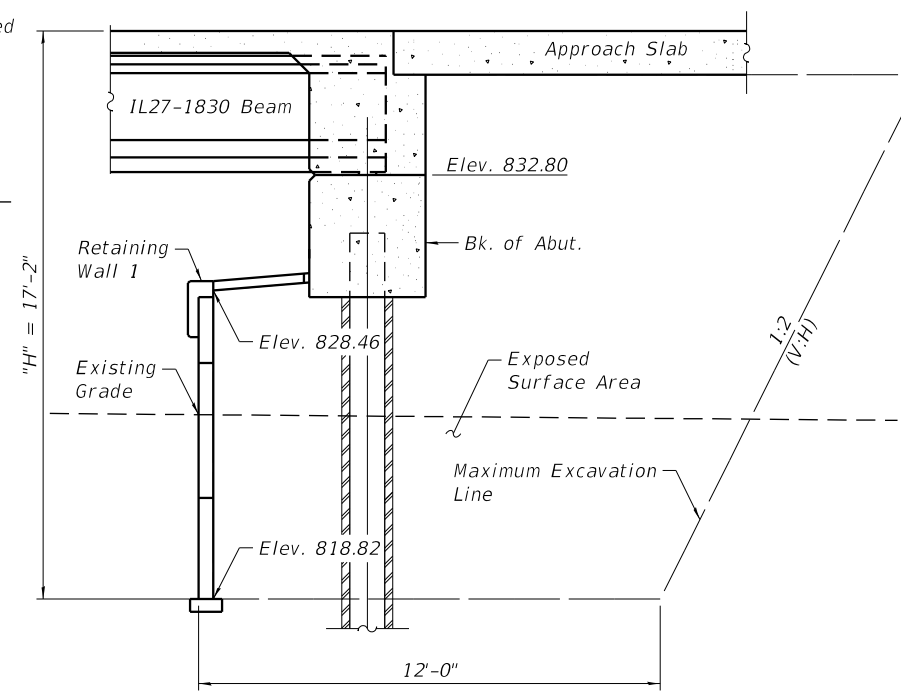
Along wall without light pole bumpout



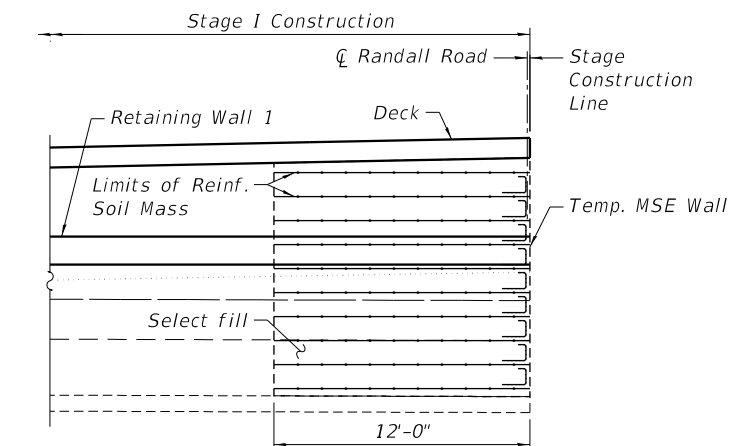
**TYPICAL COPING DETAIL**



**SECTION THRU MSE WALL**



**TEMPORARY MSE WALL ELEVATION**



**SECTION THRU TEMPORARY MSE WALL  
(Looking North)**

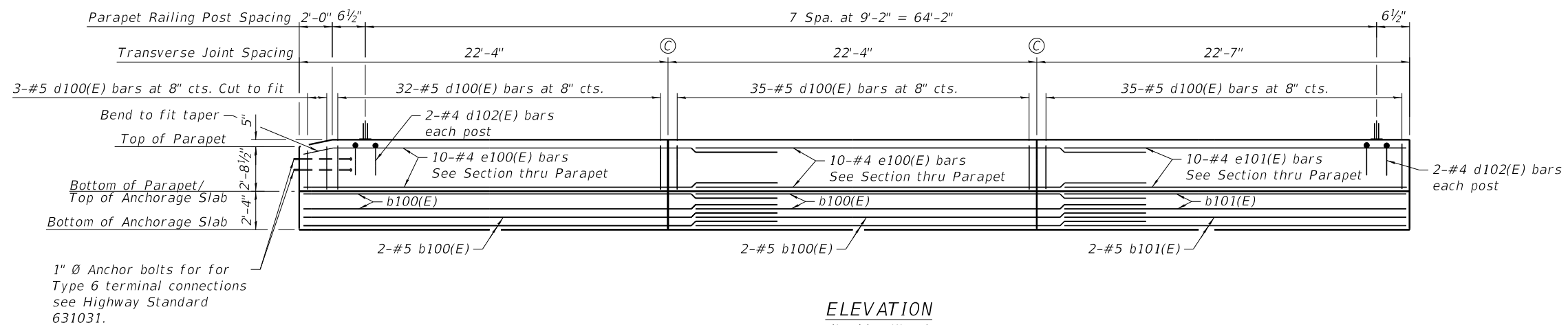
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DRAWN - JE	REVISED -	
PLOT SCALE = 6.0000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

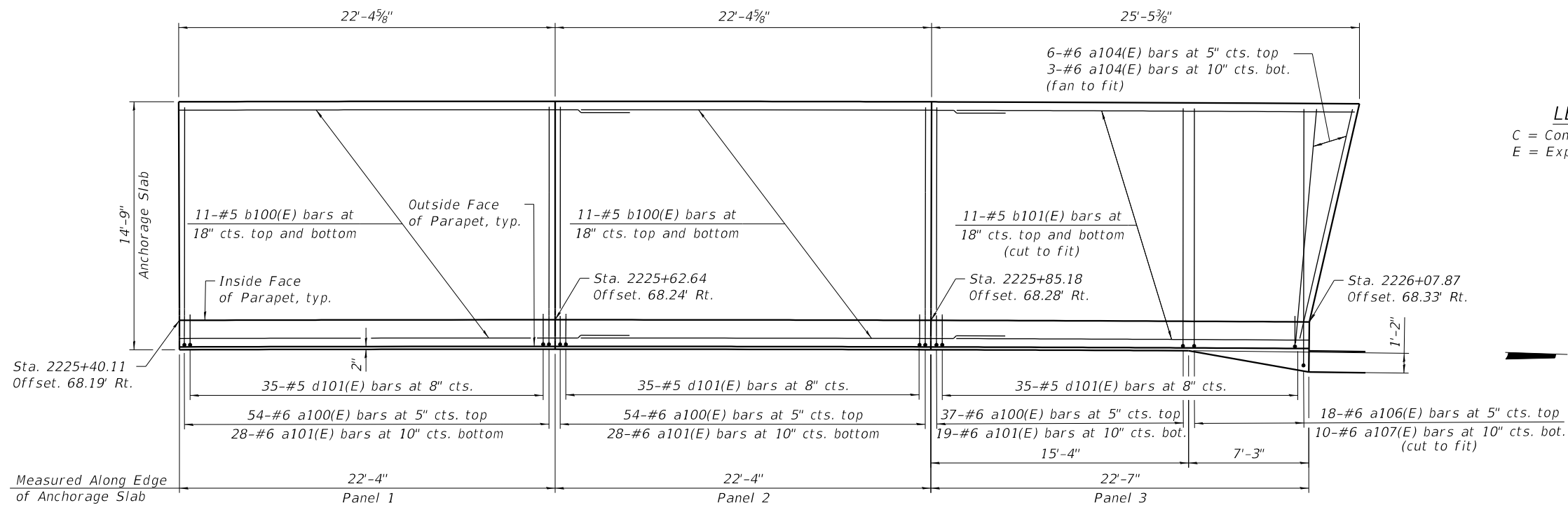
GENERAL DATA 2  
 STRUCTURE NO. 056-W301

SHEET 52-03 OF 52-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	455
CONTRACT NO. 61J93				
ILLINOIS		FED. AID PROJECT		



**ELEVATION**  
(Looking West)



**LEGEND**  
C = Construction Joint  
E = Expansion Joint

**PLAN**

**NOTES:**

- Stations and Offsets are along the inside face of parapet.
- For Section thru Anchorage Slab, see Sheet S2-08.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	REVISED -	
PLOT SCALE = 8.0000' / in.	CHECKED - IIP	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

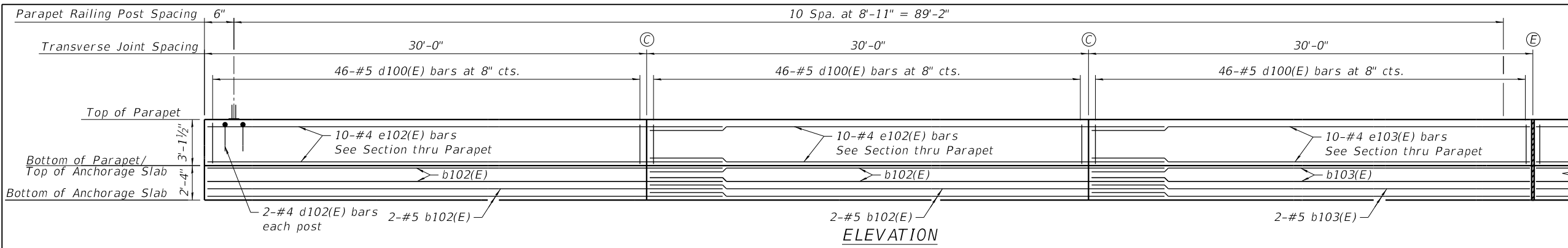
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 1**  
**STRUCTURE NO. 056-W301**

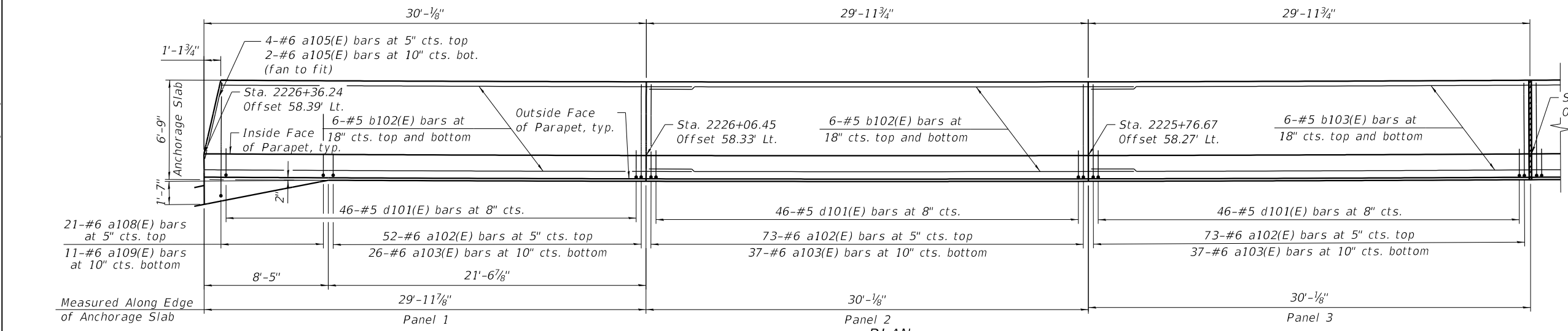
SHEET S2-04 OF S2-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	

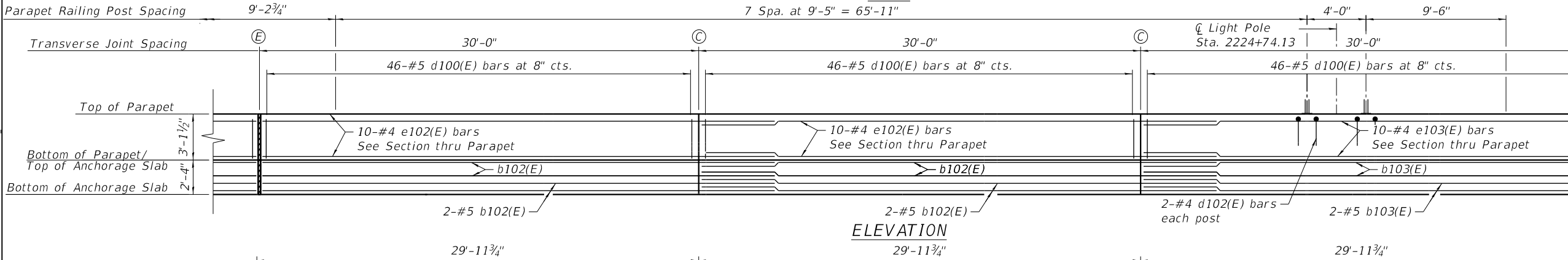
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 SHEET: 52-05 OF 52-15 SHEETS



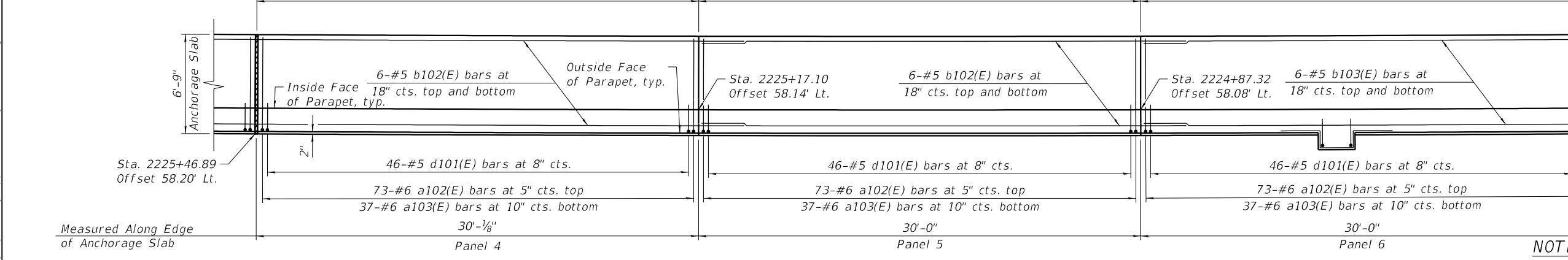
**ELEVATION**



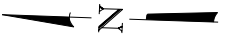
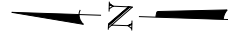
**PLAN**



**ELEVATION**



**PLAN**



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

**NOTES:**

- Stations and Offsets are along the inside face of parapet.
- For Section thru Anchorage Slab, see Sheet S2-08.

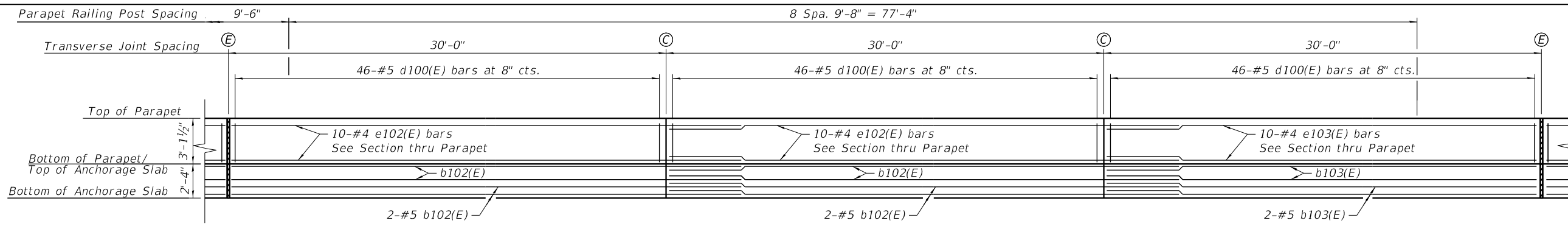
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	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

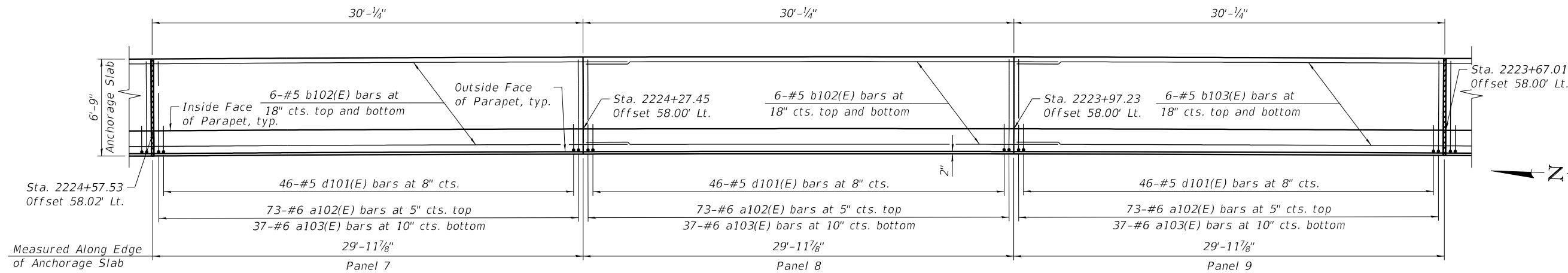
**ANCHORAGE SLAB PLAN AND ELEVATION 2  
 STRUCTURE NO. 056-W301**

SHEET 52-05 OF 52-15 SHEETS

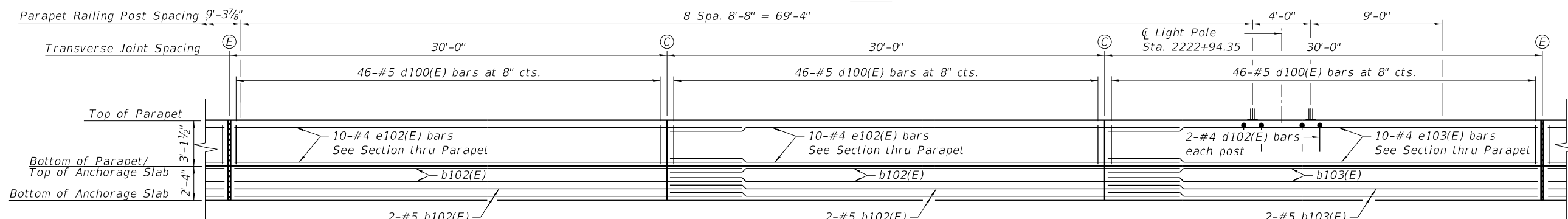
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	457
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J93	



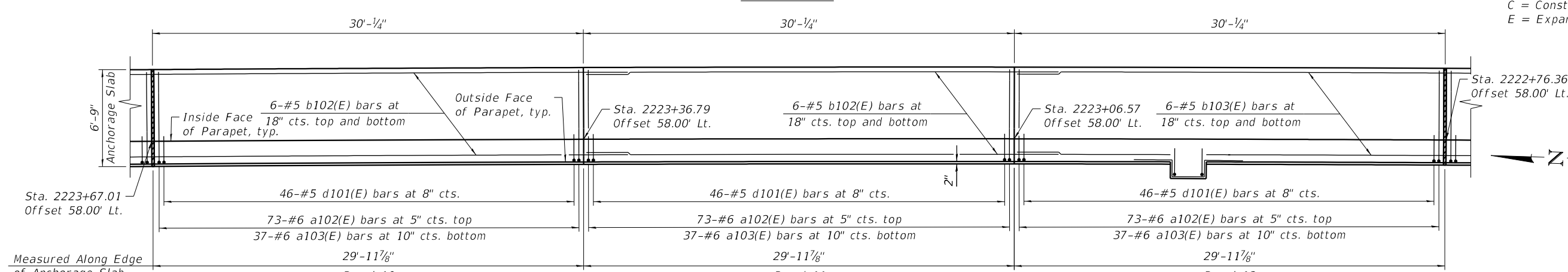
**ELEVATION**



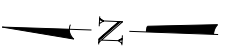
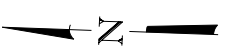
**PLAN**



**ELEVATION**



**PLAN**



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

**NOTES:**

- Stations and Offsets are along the inside face of parapet.
- For Section thru Anchorage Slab, see Sheet S2-08.

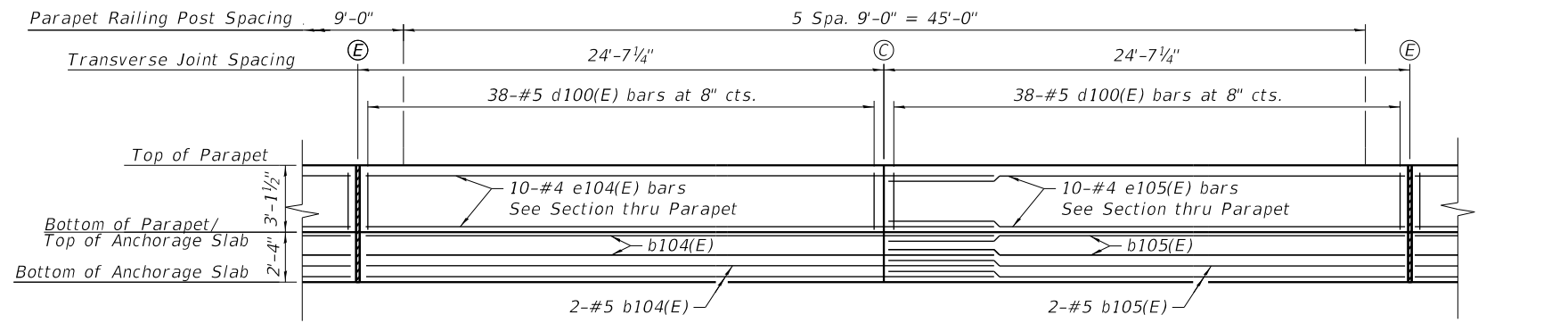
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	DRAWN - JE	REVISED -
PLOT SCALE = 8,0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

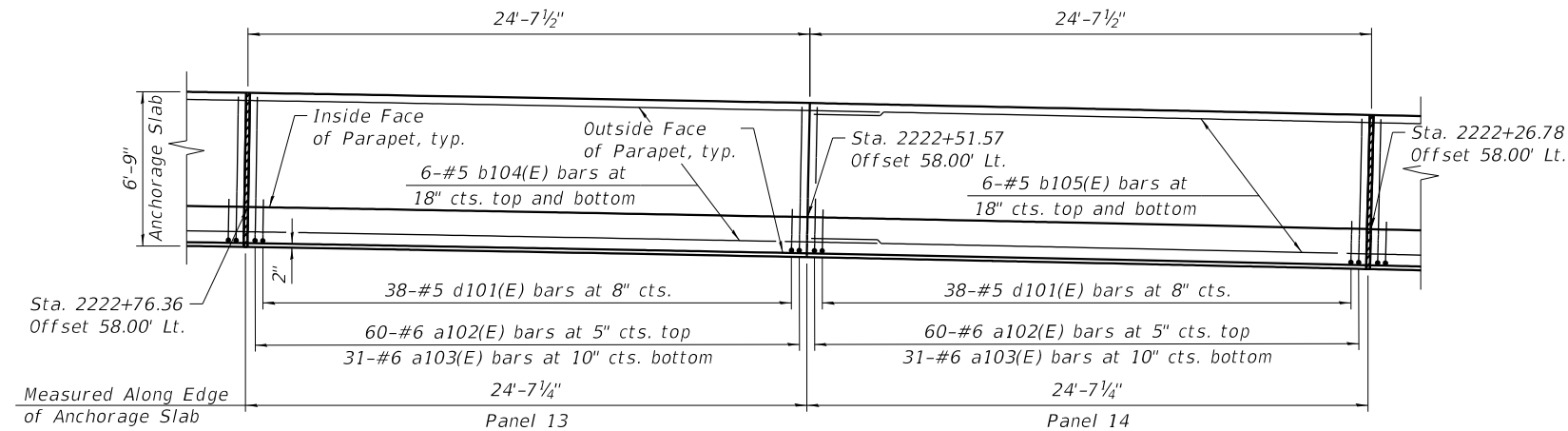
**ANCHORAGE SLAB PLAN AND ELEVATION 3  
 STRUCTURE NO. 056-W301**

SHEET S2-06 OF S2-15 SHEETS

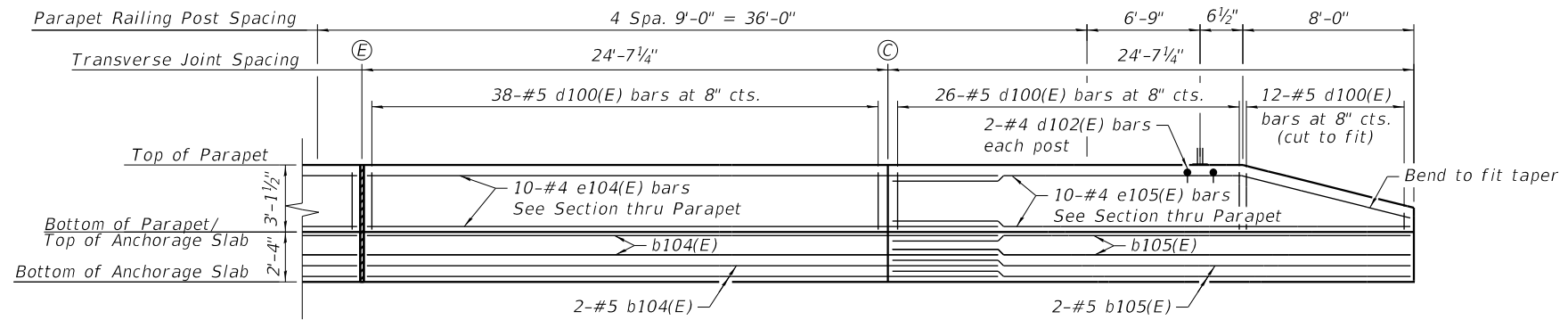
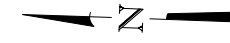
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	458
CONTRACT NO. 61193				
ILLINOIS / FED. AID PROJECT				



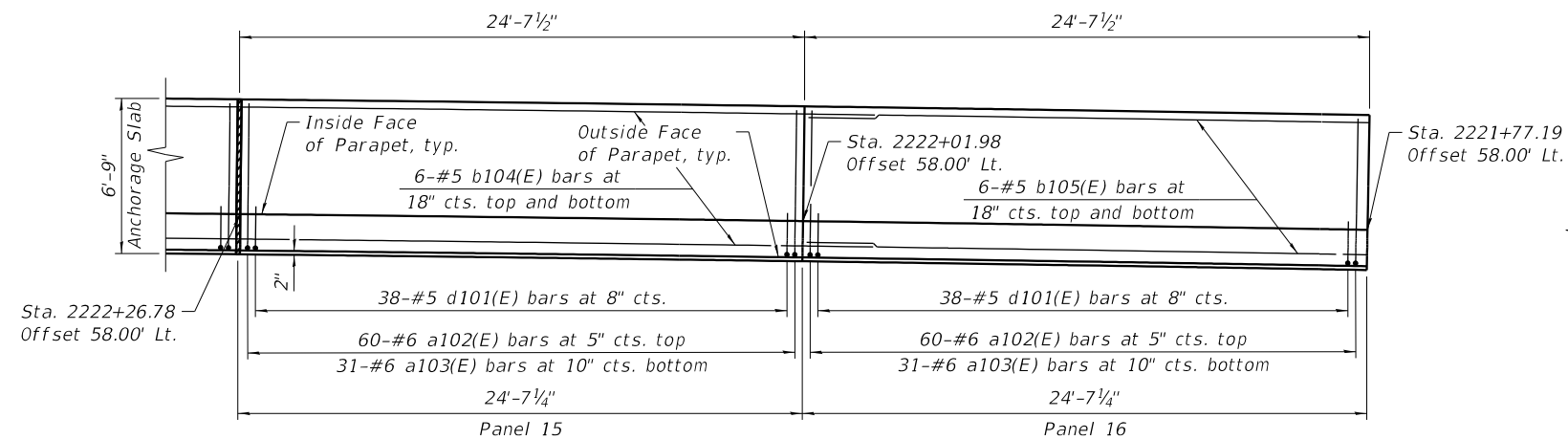
**ELEVATION**



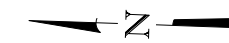
**PLAN**



**ELEVATION**



**PLAN**



**LEGEND**

C = Construction Joint  
 E = Expansion Joint

**NOTES:**

- Stations and Offsets are along the inside face of parapet.
- For Section thru Anchorage Slab, see Sheet S2-08.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

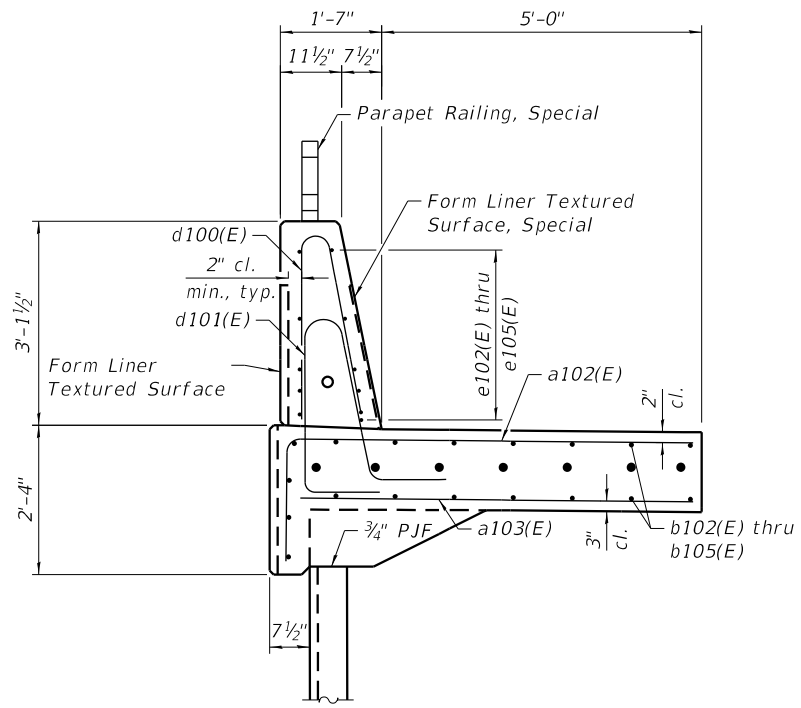
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 4  
 STRUCTURE NO. 056-W301**

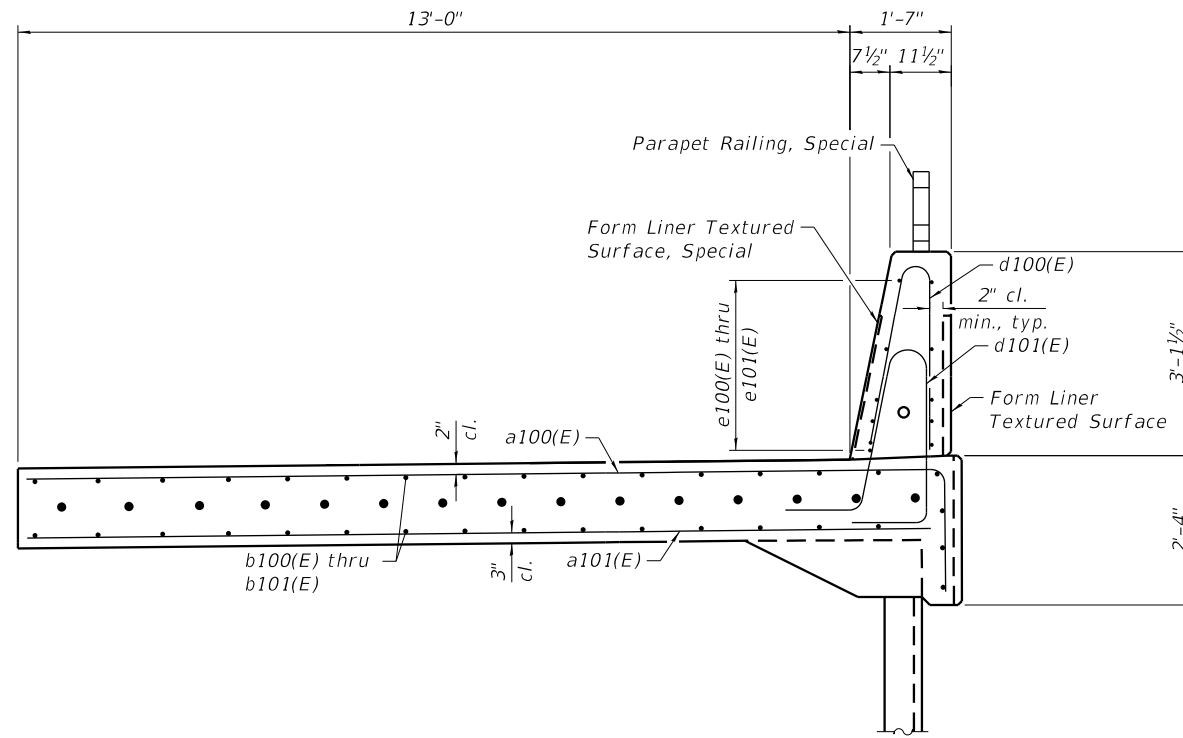
SHEET S2-07 OF S2-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61193	

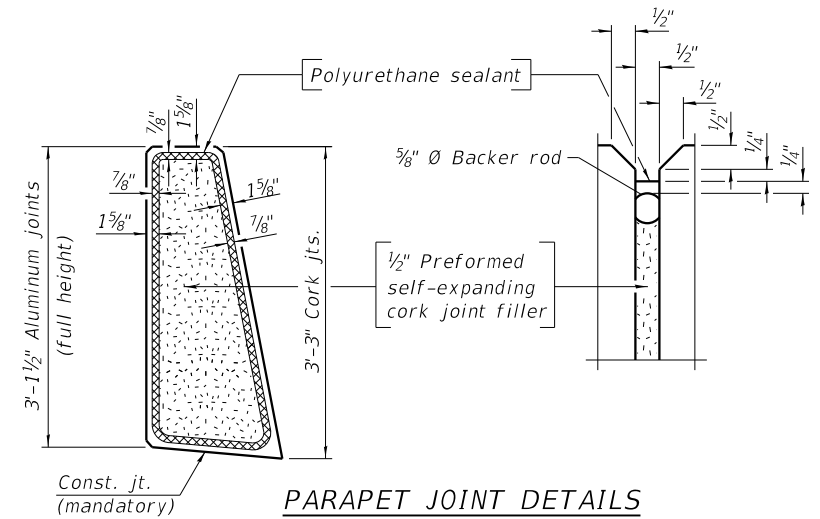
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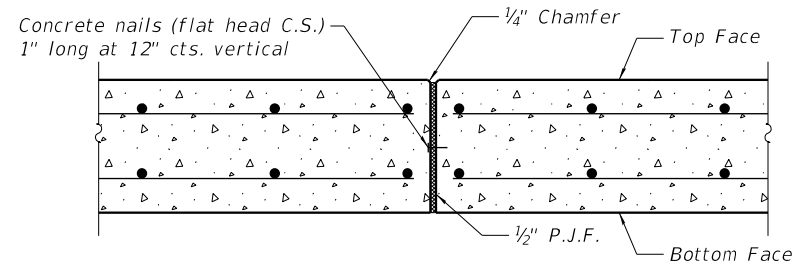
**SECTION A-A**



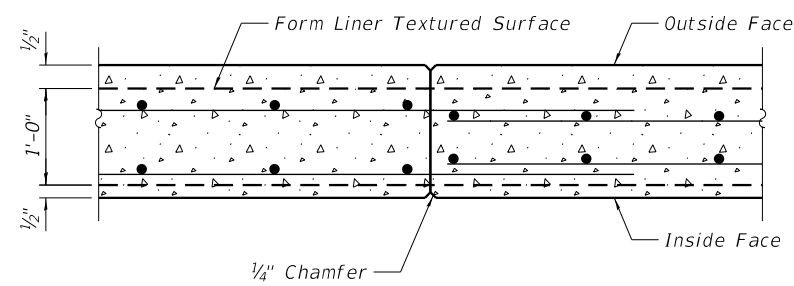
**SECTION B-B**



**PARAPET JOINT DETAILS**

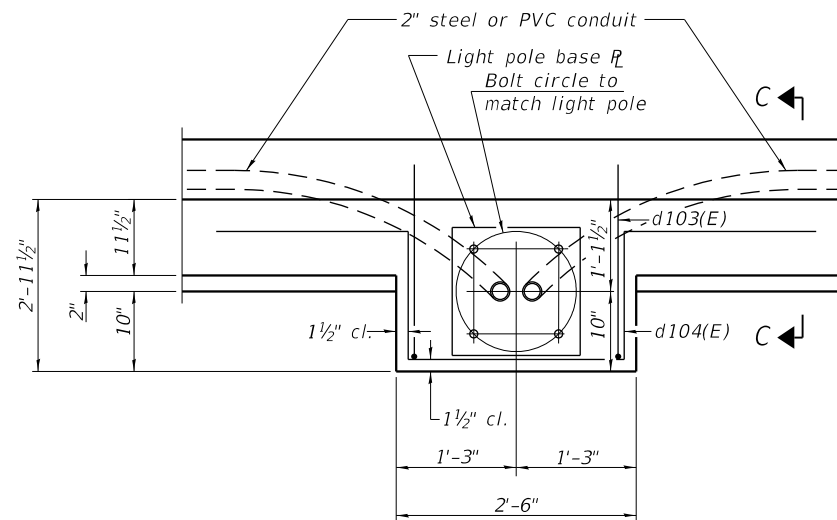


**MOMENT SLAB EXPANSION JOINT DETAIL**



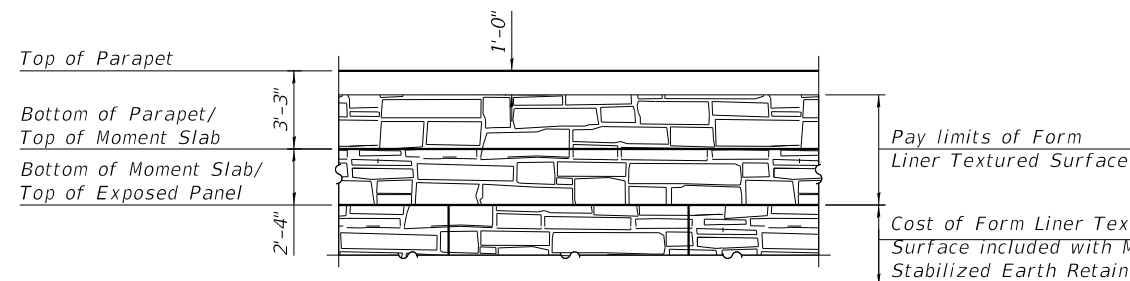
**PARAPET CONSTRUCTION JOINT DETAIL**

(Moment slab similar)

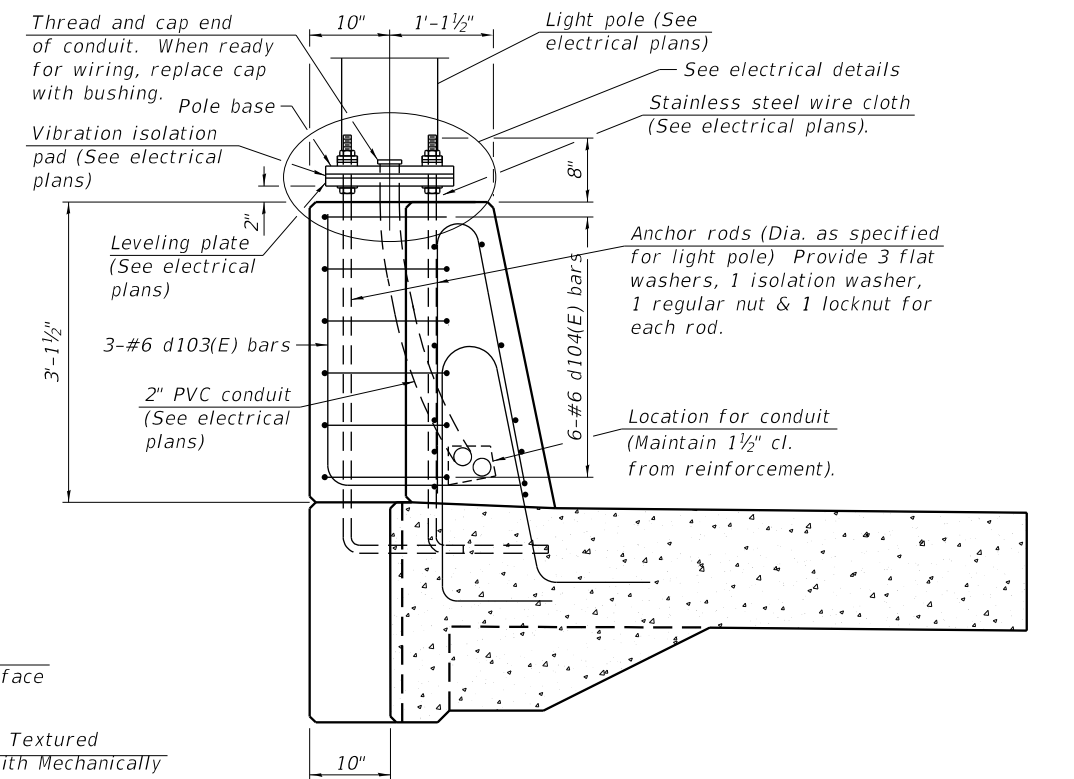


**PLAN**

Note:  
 Cost of anchor rods and conduit is included with Concrete Superstructure.



**FORM LINER DETAIL**



**SECTION C-C**

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 3,0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

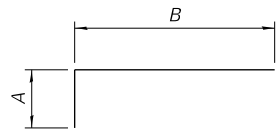
**ANCHORAGE SLAB SECTION AND DETAILS 1  
 STRUCTURE NO. 056-W301**

SHEET 52-08 OF 52-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	460
CONTRACT NO. 61193				

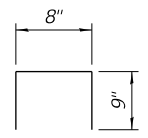
ILLINOIS FED. AID PROJECT



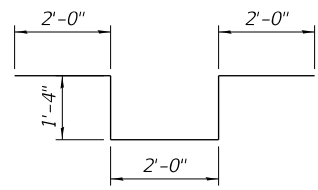


**BARS a100(E), a102(E), a106(E), a108(E), and d103(E)**

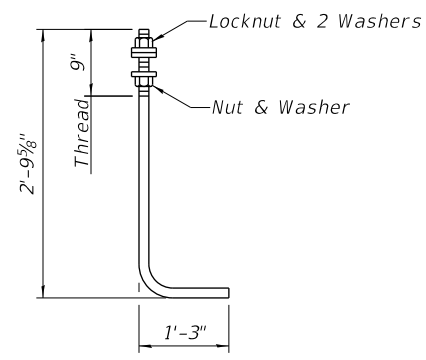
Bar	A	B
a100(E)	1'-11"	14'-3"
a102(E)	1'-11"	6'-3"
a106(E)	1'-11"	15'-5"
a108(E)	1'-11"	15'-10"
d103(E)	1'-6"	2'-9"



**BAR d102(E)**



**BAR d104(E)**

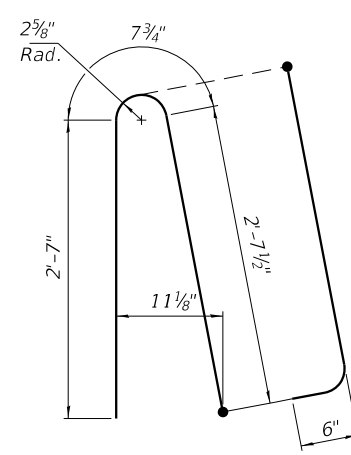


**ANCHOR ROD**

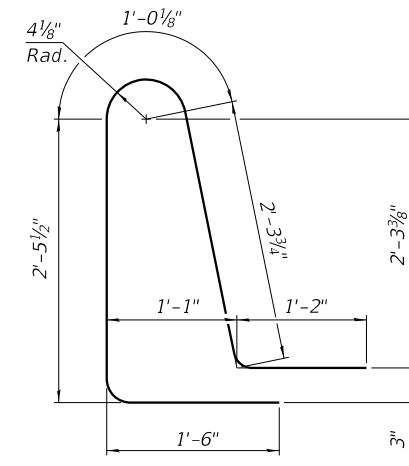
Diameter as specified for light poles.  
 (ASTM F 1554 Grade 105)

**MIN BAR LAP**

Bar	Lap
#4	2'-5"
#5	3'-0"



**BAR d100(E)**



**BAR d101(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a100(E)	145	#6	16'-2"	┌───┐
a101(E)	75	#6	14'-0"	┌───┐
a102(E)	1095	#6	8'-2"	┌───┐
a103(E)	557	#6	6'-0"	┌───┐
a104(E)	9	#6	14'-0"	┌───┐
a105(E)	6	#6	6'-0"	┌───┐
a106(E)	18	#6	17'-4"	┌───┐
a107(E)	10	#6	15'-2"	┌───┐
a108(E)	21	#6	17'-9"	┌───┐
a109(E)	11	#6	15'-7"	┌───┐
b100(E)	48	#5	25'-4"	┌───┐
b101(E)	24	#5	25'-1"	┌───┐
b102(E)	112	#5	33'-0"	┌───┐
b103(E)	56	#5	29'-8"	┌───┐
b104(E)	28	#5	27'-9"	┌───┐
b105(E)	28	#5	24'-3"	┌───┐
d100(E)	809	#5	6'-5"	┌───┐
d101(E)	809	#5	8'-6"	┌───┐
d102(E)	122	#5	2'-2"	┌───┐
d103(E)	6	#6	4'-3"	┌───┐
d104(E)	12	#6	8'-8"	┌───┐
e100(E)	20	#4	24'-9"	┌───┐
e101(E)	10	#4	22'-3"	┌───┐
e102(E)	80	#4	32'-5"	┌───┐
e103(E)	40	#4	29'-8"	┌───┐
e104(E)	20	#4	27'-9"	┌───┐
e105(E)	20	#4	24'-3"	┌───┐
Concrete Superstructure		Cu. Yd.	327	
Form Liner Textured Surface		Sq. Ft.	2,280	
Protective Coat		Sq. Yd.	599	
Reinforcement Bars, Epoxy Coated		Pound	51,070	
Anti-Graffiti Coating		Sq. Ft.	8,370	
Form Liner Textured Surface, Special		Sq. Ft.	1,216	
Staining Concrete Structures		Sq. Ft.	6,306	
Parapet Railing, Special		Foot	529	

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
PLOT SCALE = 3,0000 ' / in.	DRAWN - JE	REVISED -
PLOT DATE = 6/12/2024	CHECKED - MDS	REVISED -
	DATE - 6/14/2024	REVISED -

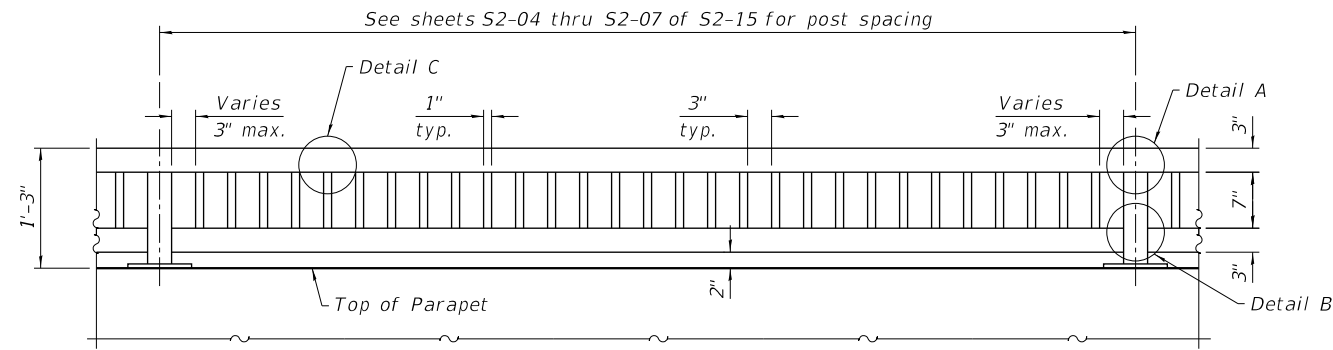
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB SECTION AND DETAILS 2  
 STRUCTURE NO. 056-W301**

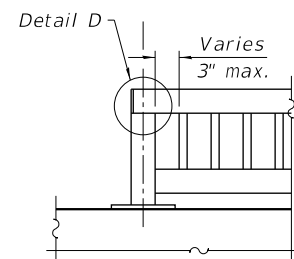
SHEET 52-09 OF 52-15 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		

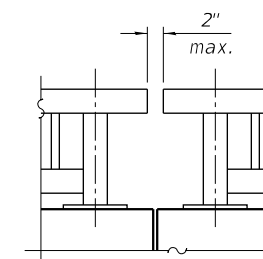
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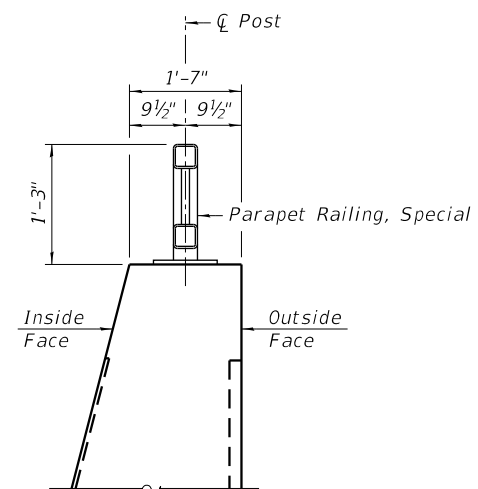
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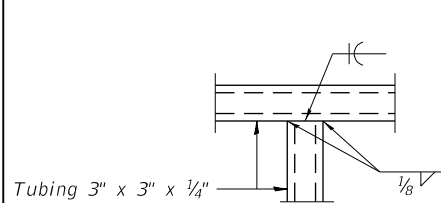
**TERMINAL SECTION**



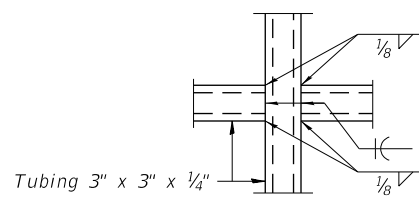
**SECTION AT EXPANSION JOINT**



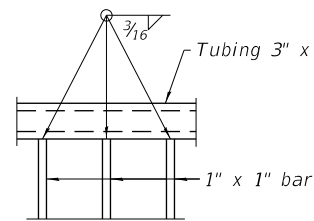
**SECTION THRU RAILING**



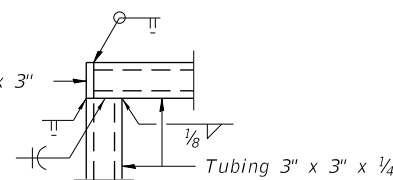
**DETAIL A**



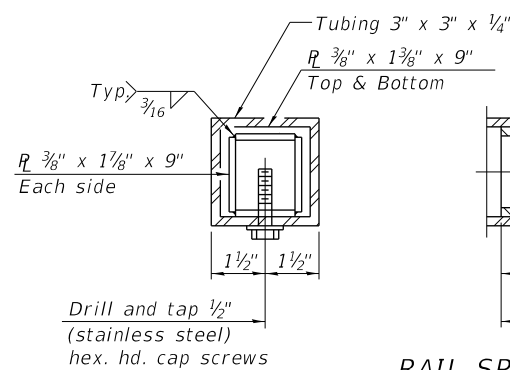
**DETAIL B**



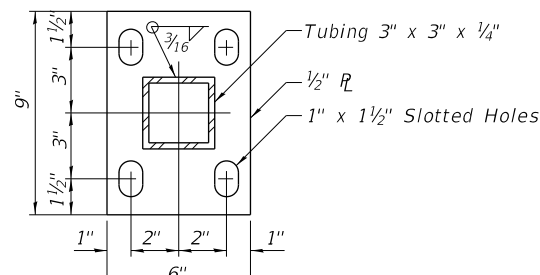
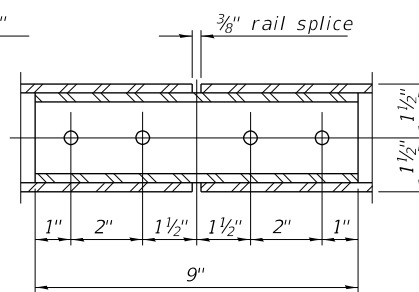
**DETAIL C**



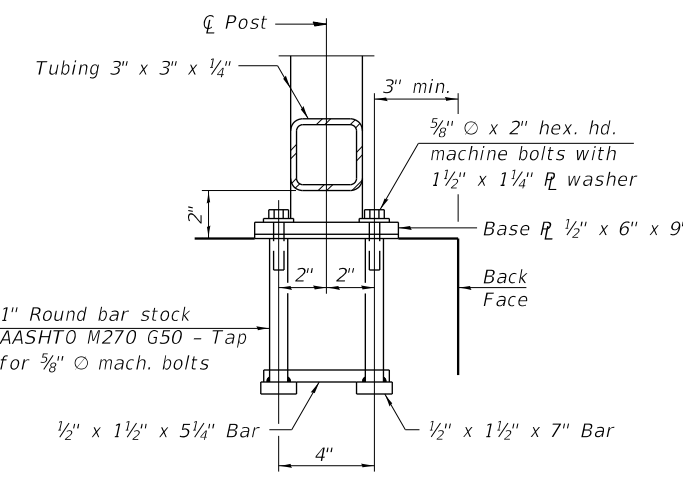
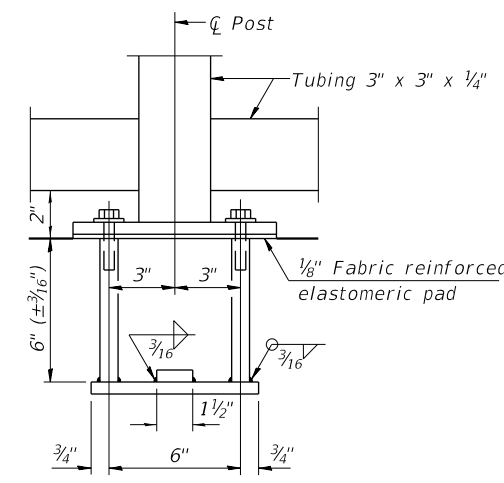
**DETAIL D**



**RAIL SPLICE**



**BASE PLATE**



**ANCHOR BOLT DETAILS**

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

Notes:  
 All post, railing, splices, anchor devices, and plates shall be powder coated the color Traffic Black (RAL 9017).

**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing, Special	Foot	529

USER NAME = Mibeening	DESIGNED - JE	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN - JE	REVISED -
PLOT DATE = 6/12/2024	CHECKED - IS	REVISED -
	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS  
 STRUCTURE NO. 056-W301**

SHEET 52-10 OF 52-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	462
				CONTRACT NO. 61193
		ILLINOIS	FED. AID PROJECT	

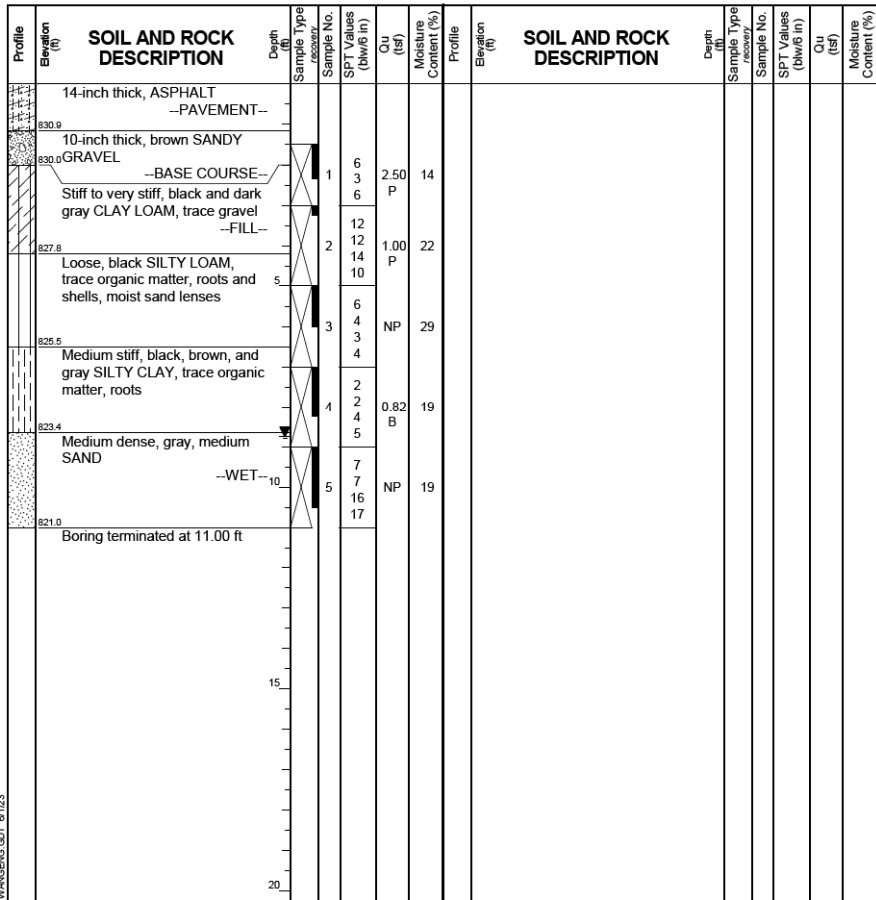
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**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG RR-NB-28**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 832.02 ft  
 North: 2010132.18 ft  
 East: 983698.70 ft  
 Station: 2226+71.06  
 Offset: 48.62 RT

Page 1 of 1



**GENERAL NOTES**

Begin Drilling **07-18-2014** Complete Drilling **07-18-2014**

Drilling Contractor **Wang Testing Services** Drill Rig

Driller **R & J** Logger **A. Tomaras** Checked by **C. Marin**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling **8.75 ft**

At Completion of Drilling **8.75 ft**

Time After Drilling **NA**

Depth to Water **NA**

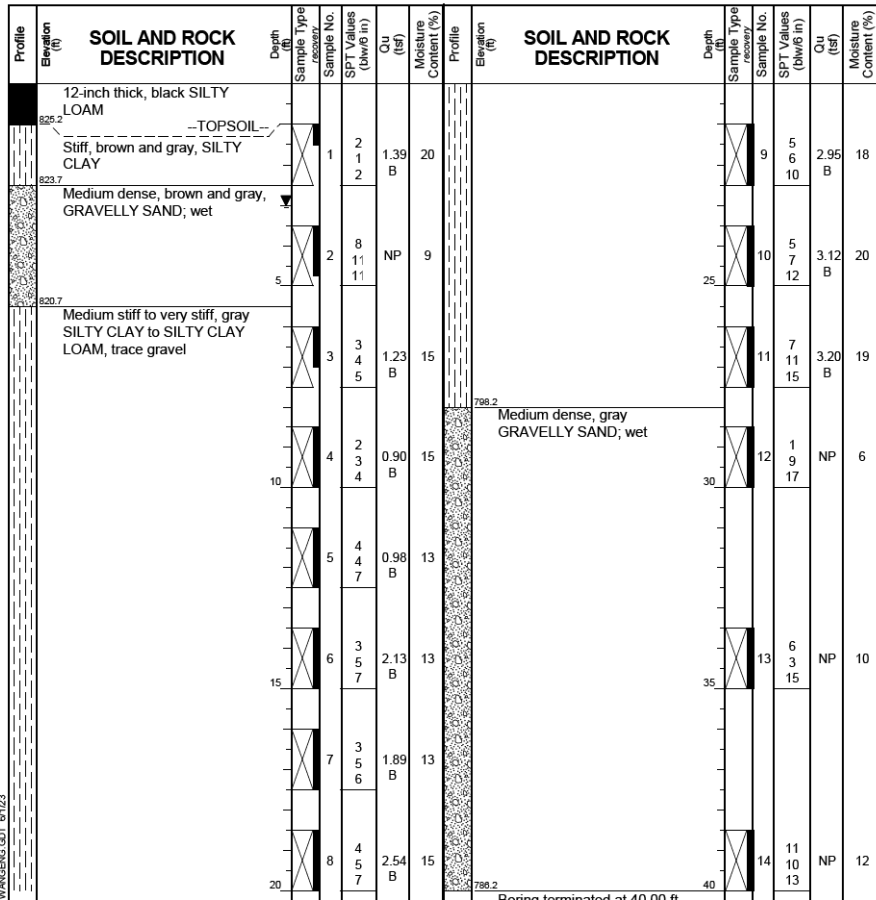
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG SB2-01**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 826.23 ft  
 North: 2010016.49 ft  
 East: 983591.42 ft  
 Station: 2225+58.34  
 Offset: 61.70 LT

Page 1 of 1



**GENERAL NOTES**

Begin Drilling **03-10-2015** Complete Drilling **03-10-2015**

Drilling Contractor **Wang Testing Services** Drill Rig

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling **3.00 ft**

At Completion of Drilling **3.00 ft**

Time After Drilling **24 hrs hours**

Depth to Water **NA**

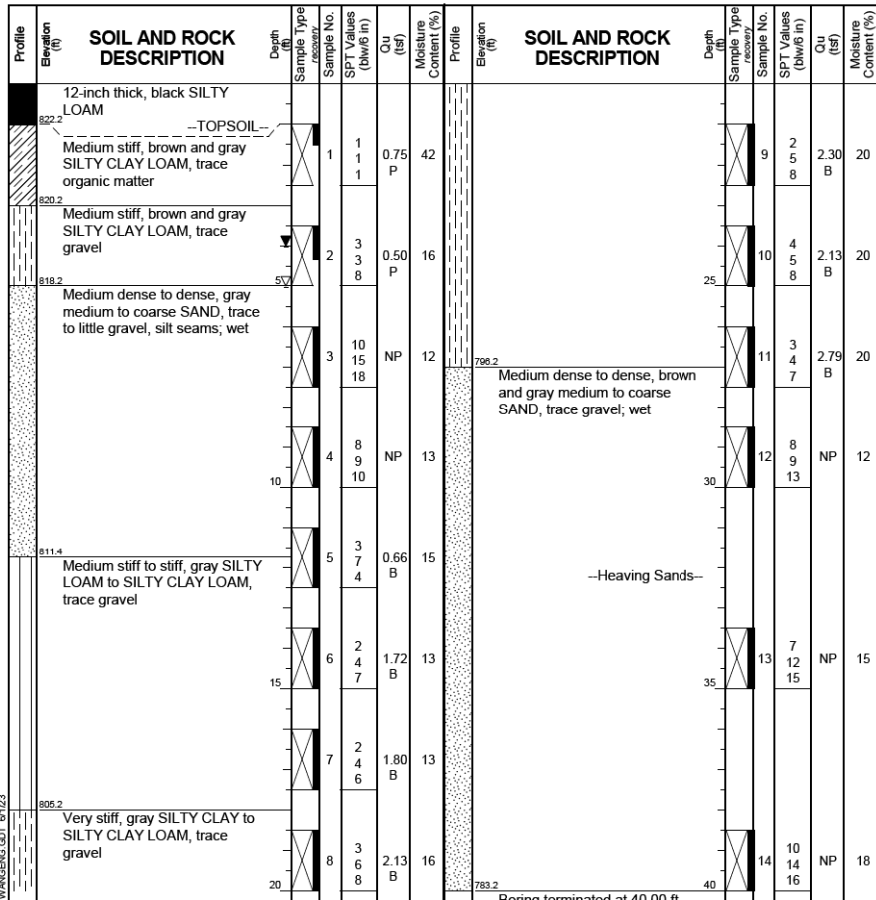
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG SB2-02**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 823.16 ft  
 North: 2010083.29 ft  
 East: 983593.36 ft  
 Station: 2226+24.56  
 Offset: 57.78 LT

Page 1 of 1



**GENERAL NOTES**

Begin Drilling **03-11-2015** Complete Drilling **03-11-2015**

Drilling Contractor **Wang Testing Services** Drill Rig

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling **5.00 ft**

At Completion of Drilling **4.00 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.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS 1  
 STRUCTURE NO. 056-W301**

SHEET 52-11 OF 52-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	463
CONTRACT NO. 61193				
		ILLINOIS	FED. AID PROJECT	

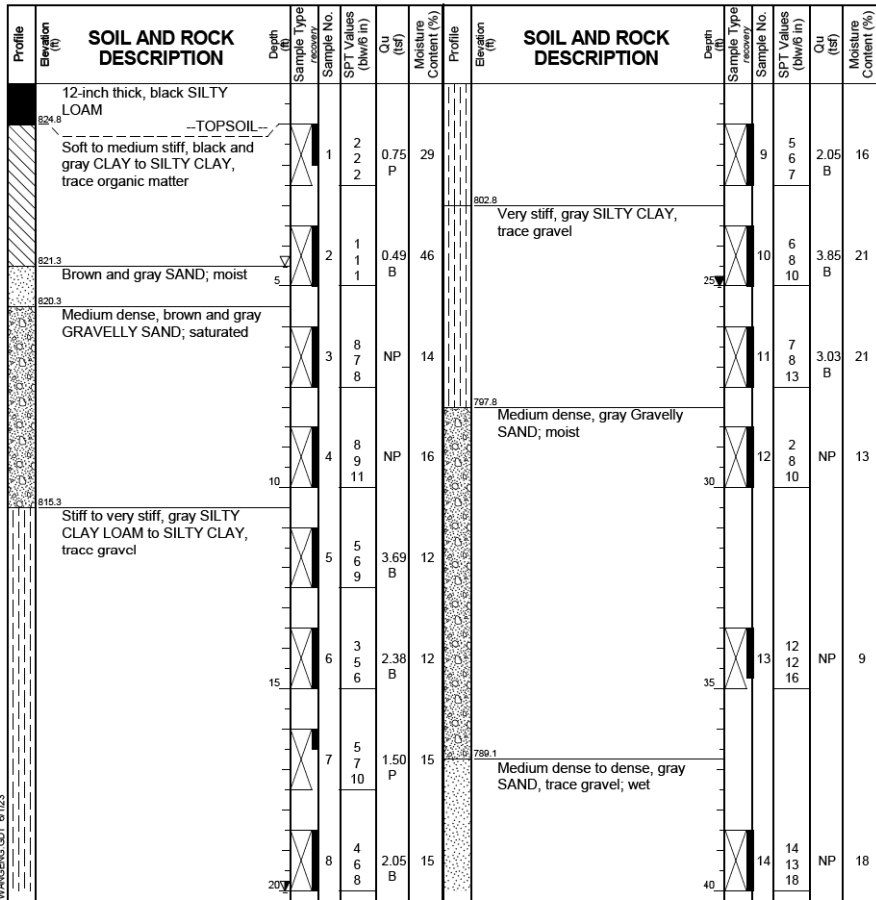
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**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG WCB-01**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.84 ft  
 North: 2010134.22 ft  
 East: 983595.39 ft  
 Station: 2226+75.08  
 Offset: 54.63 LT

Page 1 of 3



**GENERAL NOTES**  
 Begin Drilling 03-11-2015 Complete Drilling 03-12-2015  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**  
 Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled**  
**upon completion**

**WATER LEVEL DATA**  
 While Drilling 4.50 ft  
 At Completion of Drilling 25.00 ft  
 Time After Drilling 24 hrs hours  
 Depth to Water 20.00 ft

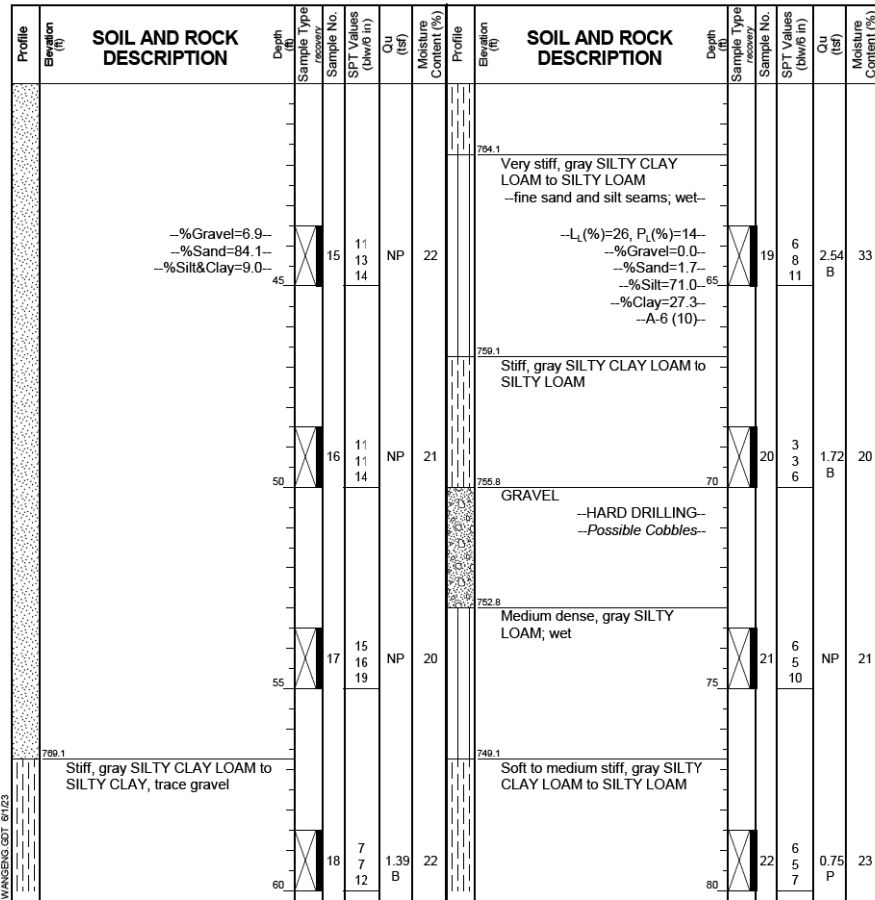
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG WCB-01**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.84 ft  
 North: 2010134.22 ft  
 East: 983595.39 ft  
 Station: 2226+75.08  
 Offset: 54.63 LT

Page 2 of 3



**GENERAL NOTES**  
 Begin Drilling 03-11-2015 Complete Drilling 03-12-2015  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**  
 Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled**  
**upon completion**

**WATER LEVEL DATA**  
 While Drilling 4.50 ft  
 At Completion of Drilling 25.00 ft  
 Time After Drilling 24 hrs hours  
 Depth to Water 20.00 ft

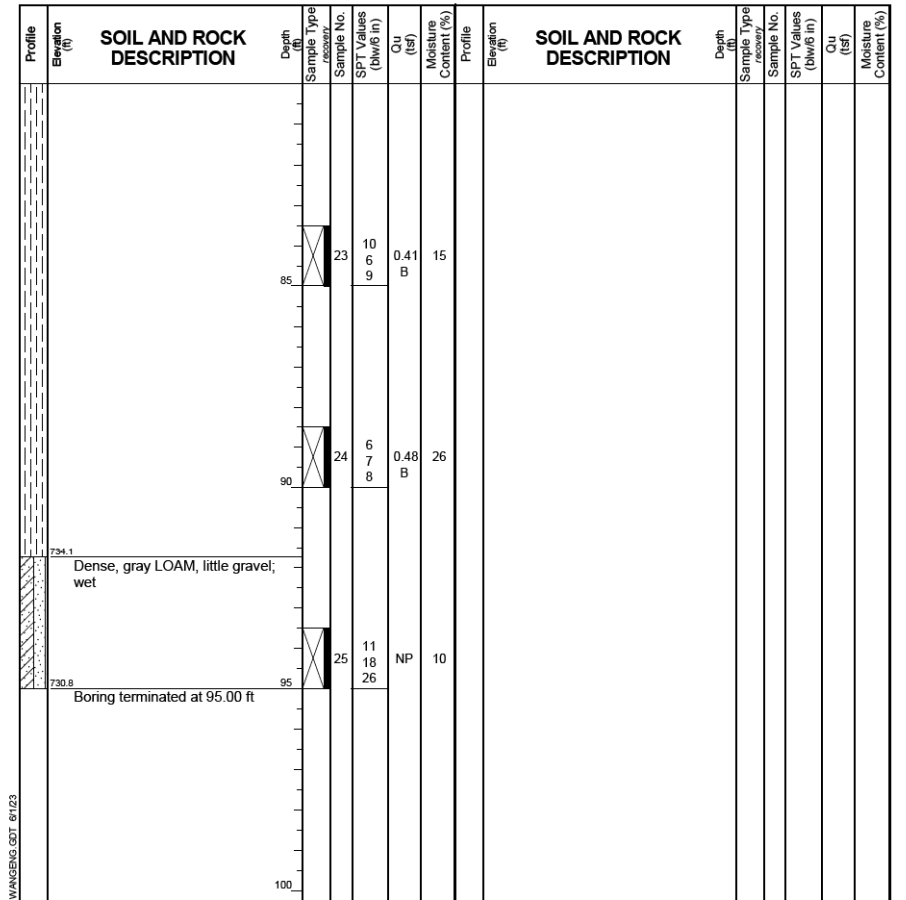
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone:  
 Fax:

**BORING LOG WCB-01**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 825.84 ft  
 North: 2010134.22 ft  
 East: 983595.39 ft  
 Station: 2226+75.08  
 Offset: 54.63 LT

Page 3 of 3



**GENERAL NOTES**  
 Begin Drilling 03-11-2015 Complete Drilling 03-12-2015  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**  
 Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled**  
**upon completion**

**WATER LEVEL DATA**  
 While Drilling 4.50 ft  
 At Completion of Drilling 25.00 ft  
 Time After Drilling 24 hrs hours  
 Depth to Water 20.00 ft

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

USER NAME = Mibeening	DESIGNED - JE	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS 2  
 STRUCTURE NO. 056-W301**

SHEET 52-12 OF 52-15 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	464
				CONTRACT NO. 61193

ILLINOIS FED. AID PROJECT

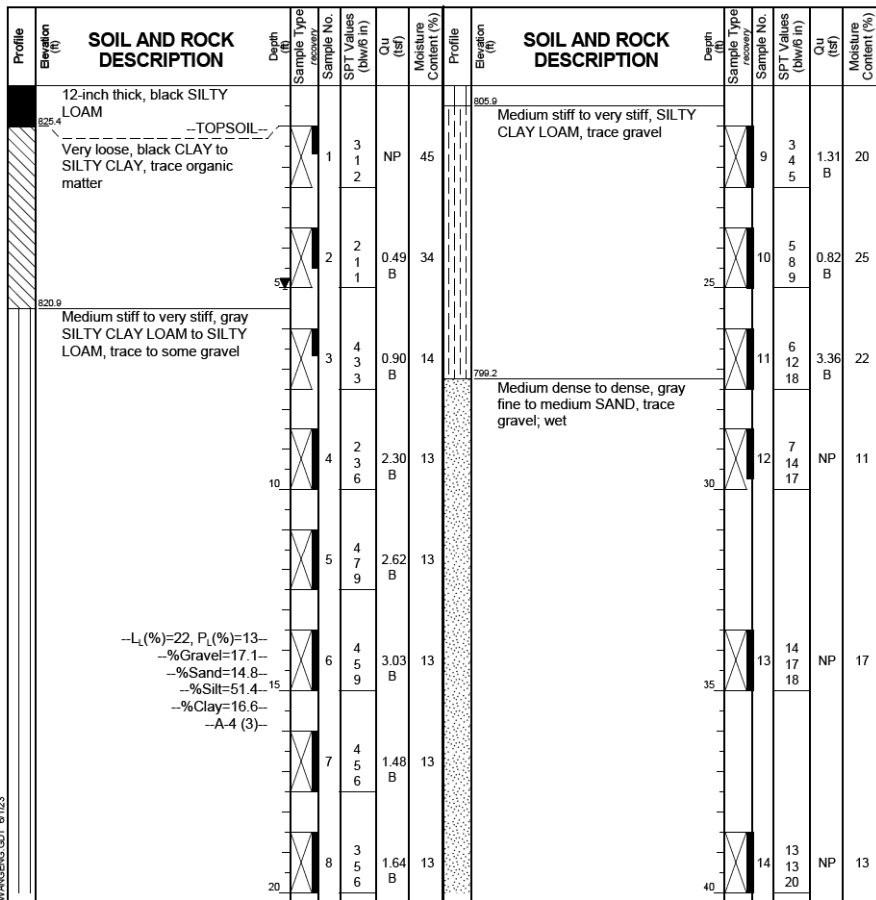
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**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

**BORING LOG WCB-02**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 826.44 ft  
 North: 2010148.39 ft  
 East: 983750.44 ft  
 Station: 2226+86.44  
 Offset: 100.65 RT

Page 1 of 3



**GENERAL NOTES**

Begin Drilling 03-12-2015 Complete Drilling 03-13-2015

Drilling Contractor **Wang Testing Services** Drill Rig \_\_\_\_\_

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling 5.00 ft

At Completion of Drilling 5.00 ft

Time After Drilling NA

Depth to Water NA

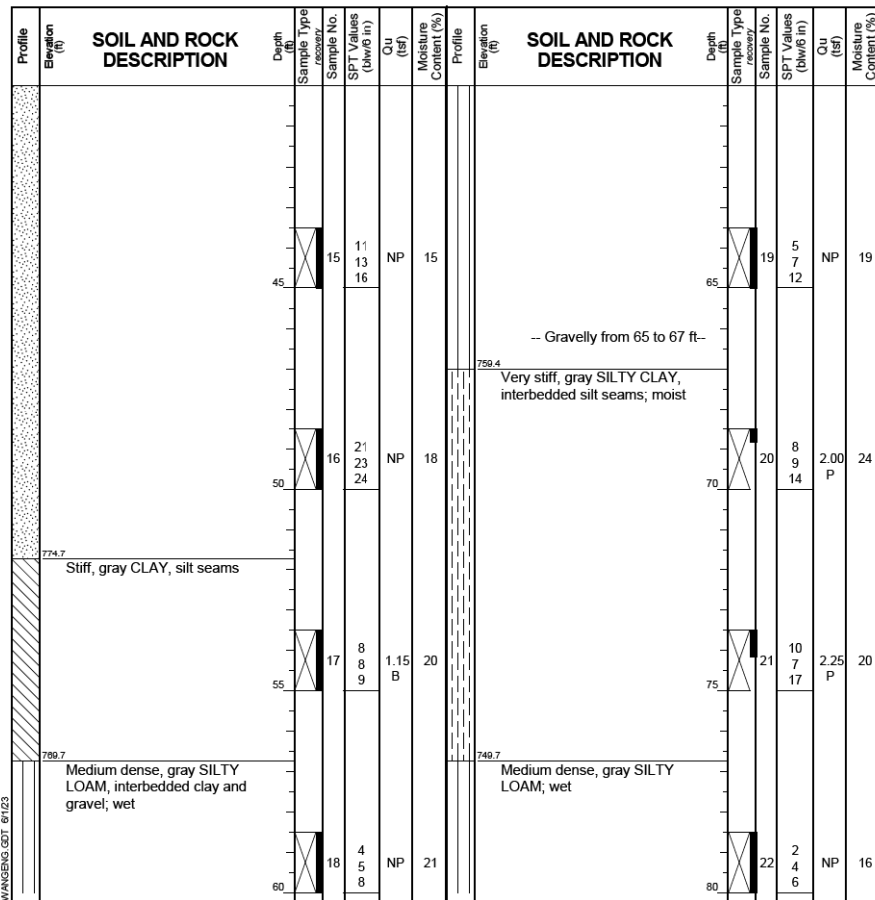
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

**BORING LOG WCB-02**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 826.44 ft  
 North: 2010148.39 ft  
 East: 983750.44 ft  
 Station: 2226+86.44  
 Offset: 100.65 RT

Page 2 of 3



**GENERAL NOTES**

Begin Drilling 03-12-2015 Complete Drilling 03-13-2015

Drilling Contractor **Wang Testing Services** Drill Rig \_\_\_\_\_

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling 5.00 ft

At Completion of Drilling 5.00 ft

Time After Drilling NA

Depth to Water NA

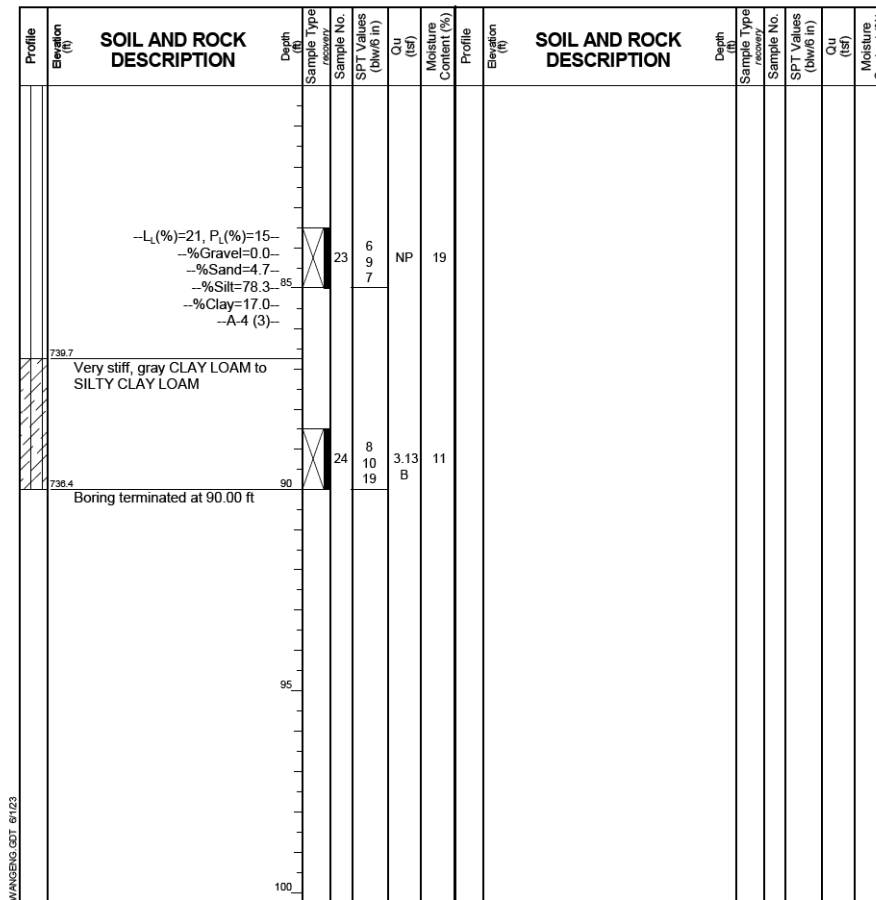
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**Wang Engineering**  
 wangeng@wangeng.com  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

**BORING LOG WCB-02**  
 WEI Job No.: KE225090  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**

Datum: NAVD88  
 Elevation: 826.44 ft  
 North: 2010148.39 ft  
 East: 983750.44 ft  
 Station: 2226+86.44  
 Offset: 100.65 RT

Page 3 of 3



**GENERAL NOTES**

Begin Drilling 03-12-2015 Complete Drilling 03-13-2015

Drilling Contractor **Wang Testing Services** Drill Rig \_\_\_\_\_

Driller **K & K** Logger **A. Happel** Checked by **A. Hamad**

Drilling Method **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling 5.00 ft

At Completion of Drilling 5.00 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.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

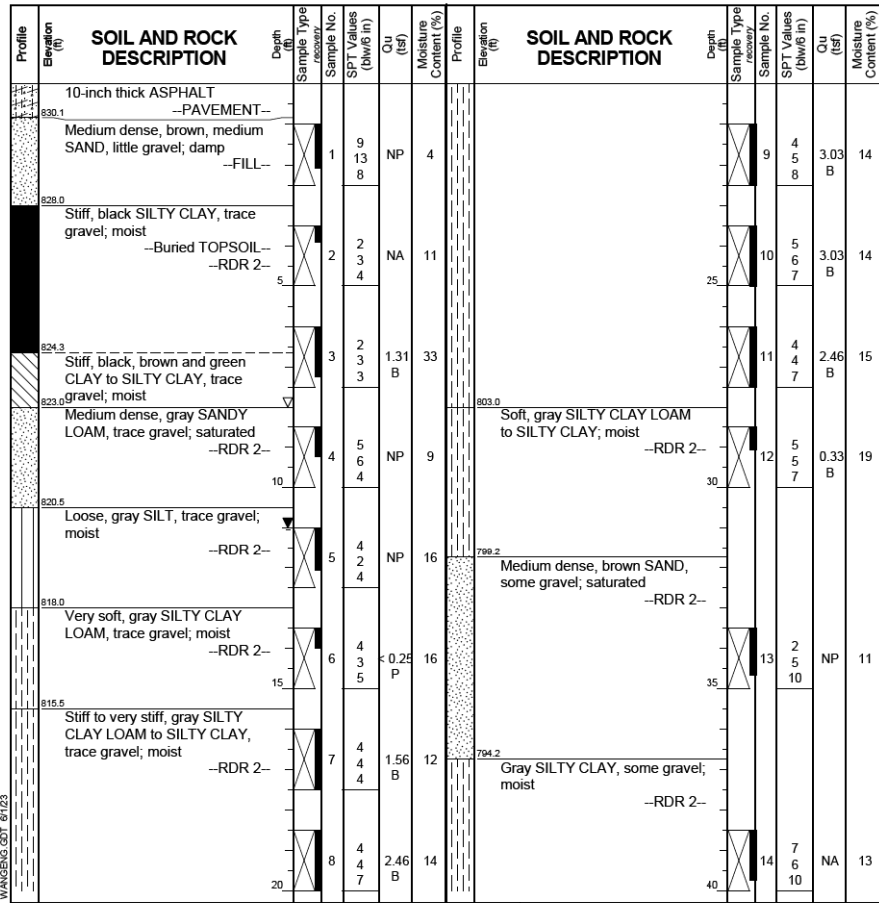
**BORING LOGS 3  
 STRUCTURE NO. 056-W301**

SHEET 52-13 OF 52-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	465
CONTRACT NO. 61193				
ILLINOIS FED. AID PROJECT				

FILE NAME: p:\chicago\01\ke225090\02\022423\BORING\WCB-RW-01\014\BoringLog.dwg

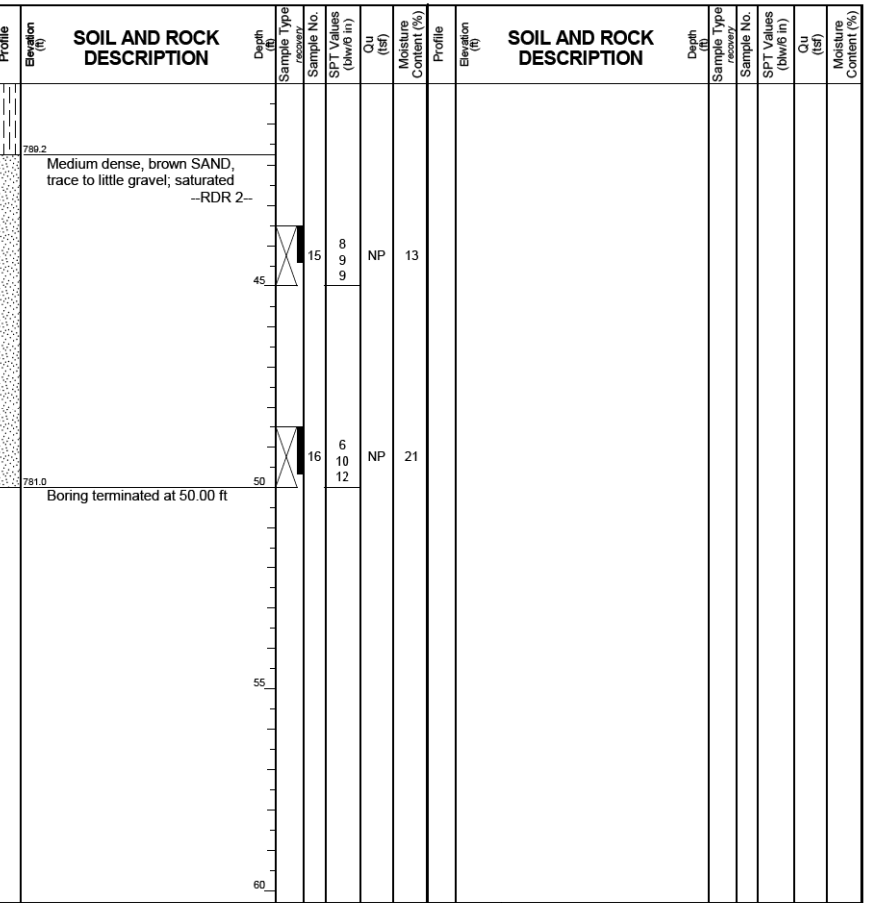
**Wang Engineering** wangeng@wangeng.com  
 Telephone: Fax:  
**BORING LOG WCB-RW-01**  
 WEI Job No.: **KE225090**  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**  
 Datum: NAVD88  
 Elevation: 830.98 ft  
 North: 2010055.59 ft  
 East: 983644.40 ft  
 Station: 2225+95.74  
 Offset: 4.2476 LT



**GENERAL NOTES**  
 Begin Drilling **02-24-2023** Complete Drilling **02-24-2023**  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **KG&TC** Logger **A. Scifers** Checked by **JAB**  
 Drilling Method **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**  
 While Drilling **8.00 ft**  
 At Completion of Drilling **11.00 ft**  
 Time After Drilling **NA**  
 Depth to Water **NA**

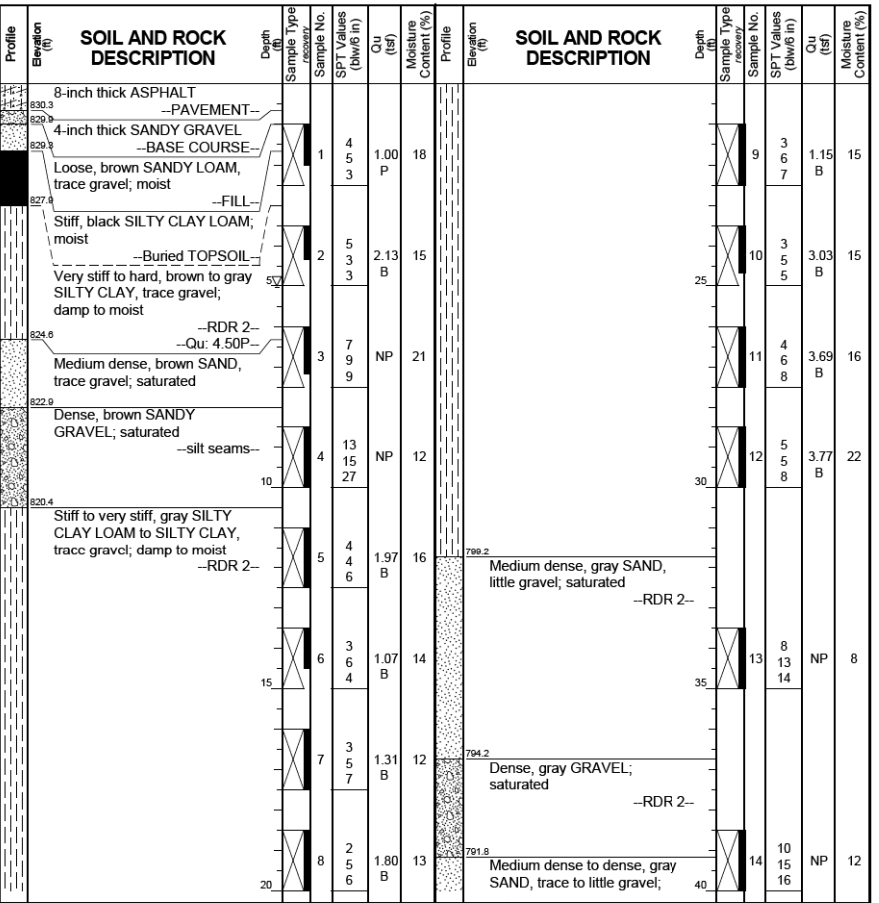
**Wang Engineering** wangeng@wangeng.com  
 Telephone: Fax:  
**BORING LOG WCB-RW-01**  
 WEI Job No.: **KE225090**  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**  
 Datum: NAVD88  
 Elevation: 830.98 ft  
 North: 2010055.59 ft  
 East: 983644.40 ft  
 Station: 2225+95.74  
 Offset: 4.2476 LT



**GENERAL NOTES**  
 Begin Drilling **02-24-2023** Complete Drilling **02-24-2023**  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **KG&TC** Logger **A. Scifers** Checked by **JAB**  
 Drilling Method **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**  
 While Drilling **8.00 ft**  
 At Completion of Drilling **11.00 ft**  
 Time After Drilling **NA**  
 Depth to Water **NA**

**Wang Engineering** wangeng@wangeng.com  
 Telephone: Fax:  
**BORING LOG WCB-RW-02**  
 WEI Job No.: **KE225090**  
 Client: **TransSystems Corporation**  
 Project: **Randall Road Phase II Improvements**  
 Location: **McHenry County, IL**  
 Datum: NAVD88  
 Elevation: 830.92 ft  
 North: 2009928.85 ft  
 East: 983638.87 ft  
 Station: 2224+69.66  
 Offset: 16.6946 LT



**GENERAL NOTES**  
 Begin Drilling **02-28-2023** Complete Drilling **02-28-2023**  
 Drilling Contractor **Wang Testing Services** Drill Rig  
 Driller **RR&GT** Logger **D. Morken** Checked by **JAB**  
 Drilling Method **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

**WATER LEVEL DATA**  
 While Drilling **5.00 ft**  
 At Completion of Drilling **MUD**  
 Time After Drilling **NA**  
 Depth to Water **NA**

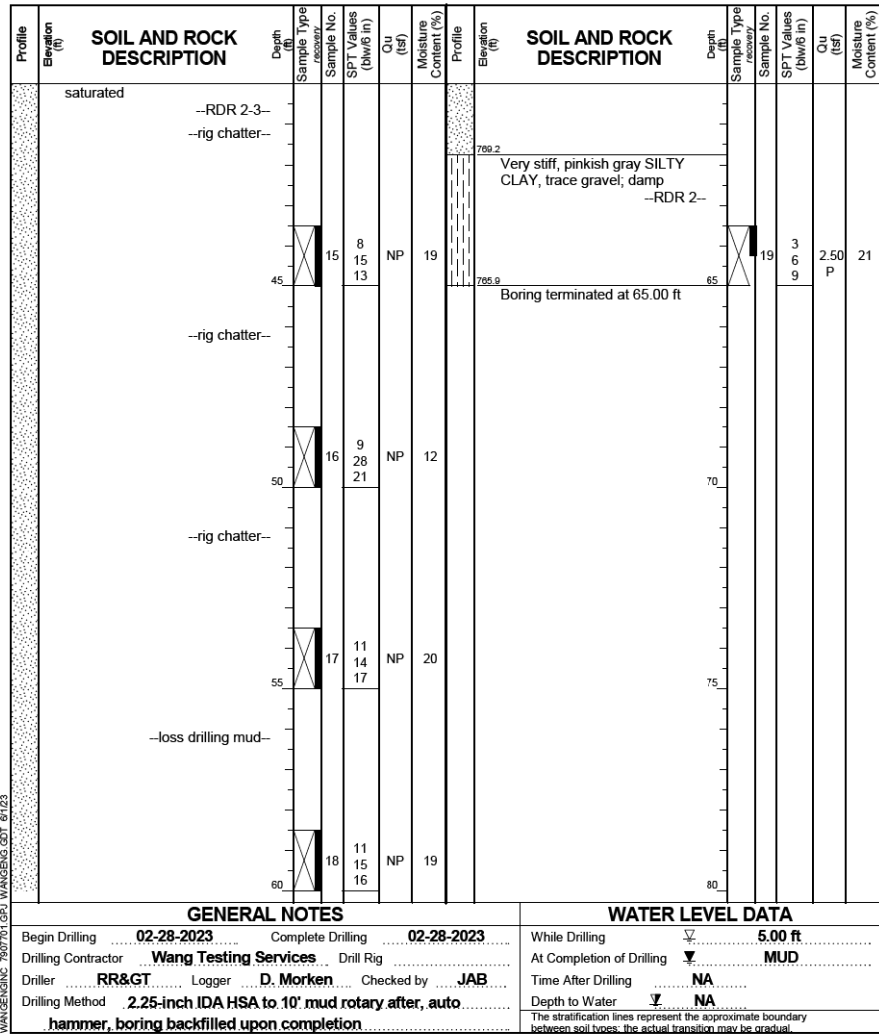
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PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

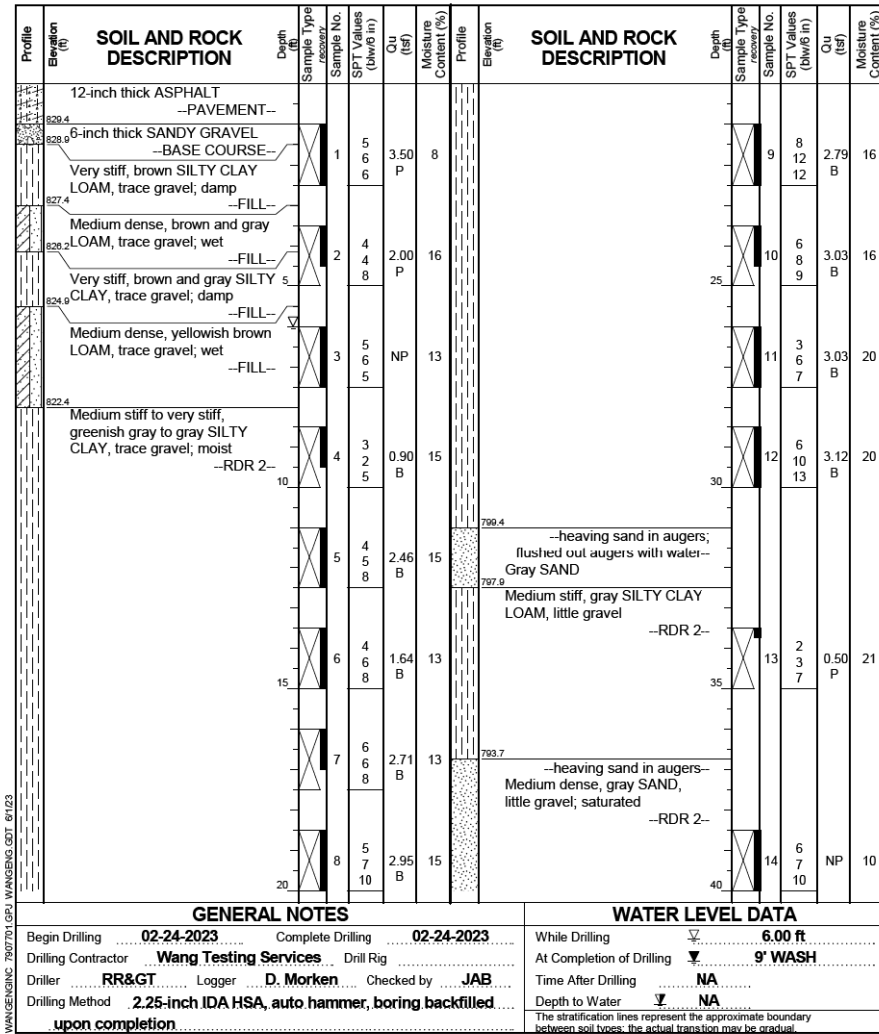
**BORING LOGS 4**  
**STRUCTURE NO. 056-W301**


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	466
CONTRACT NO. 61193				

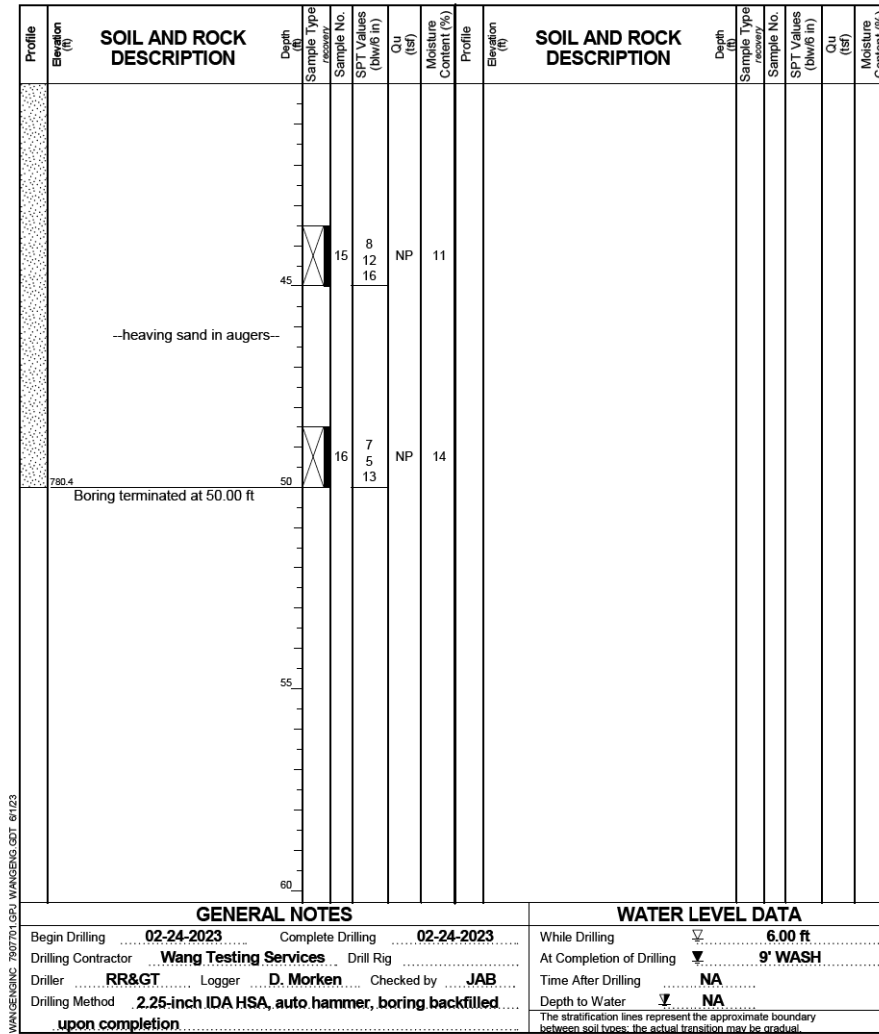

**BORING LOG WCB-RW-02** Page 2 of 2  
 wangeng@wangeng.com  
**WEI Job No.: KE225090**  
 Client **TransSystems Corporation**  
 Project **Randall Road Phase II Improvements**  
 Location **McHenry County, IL**  
 Datum: NAVD88  
 Elevation: 830.92 ft  
 North: 2009928.85 ft  
 East: 983638.87 ft  
 Station: 2224+69.66  
 Offset: 16.6946 Lt




**BORING LOG WCB-RW-03** Page 1 of 2  
 wangeng@wangeng.com  
**WEI Job No.: KE225090**  
 Client **TransSystems Corporation**  
 Project **Randall Road Phase II Improvements**  
 Location **McHenry County, IL**  
 Datum: NAVD88  
 Elevation: 830.40 ft  
 North: 2009825.41 ft  
 East: 983633.50 ft  
 Station: 2223+66.54  
 Offset: 28.3420 Lt




**BORING LOG WCB-RW-03** Page 2 of 2  
 wangeng@wangeng.com  
**WEI Job No.: KE225090**  
 Client **TransSystems Corporation**  
 Project **Randall Road Phase II Improvements**  
 Location **McHenry County, IL**  
 Datum: NAVD88  
 Elevation: 830.40 ft  
 North: 2009825.41 ft  
 East: 983633.50 ft  
 Station: 2223+66.54  
 Offset: 28.3420 Lt



USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**BORING LOGS 5**  
**STRUCTURE NO. 056-W301**  
 SHEET 52-15 OF 52-15 SHEETS

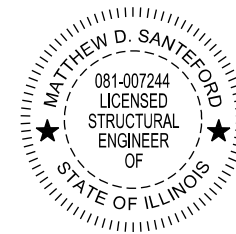
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	467
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		

Bench Mark: BM#10 Chiseled Square on south corner of concrete headwall on west side of Randall Road over Woods Creek. Elev. 831.19.

Existing Structure: None

Traffic Control: Traffic to be maintained utilizing staged construction.

Salvage: None

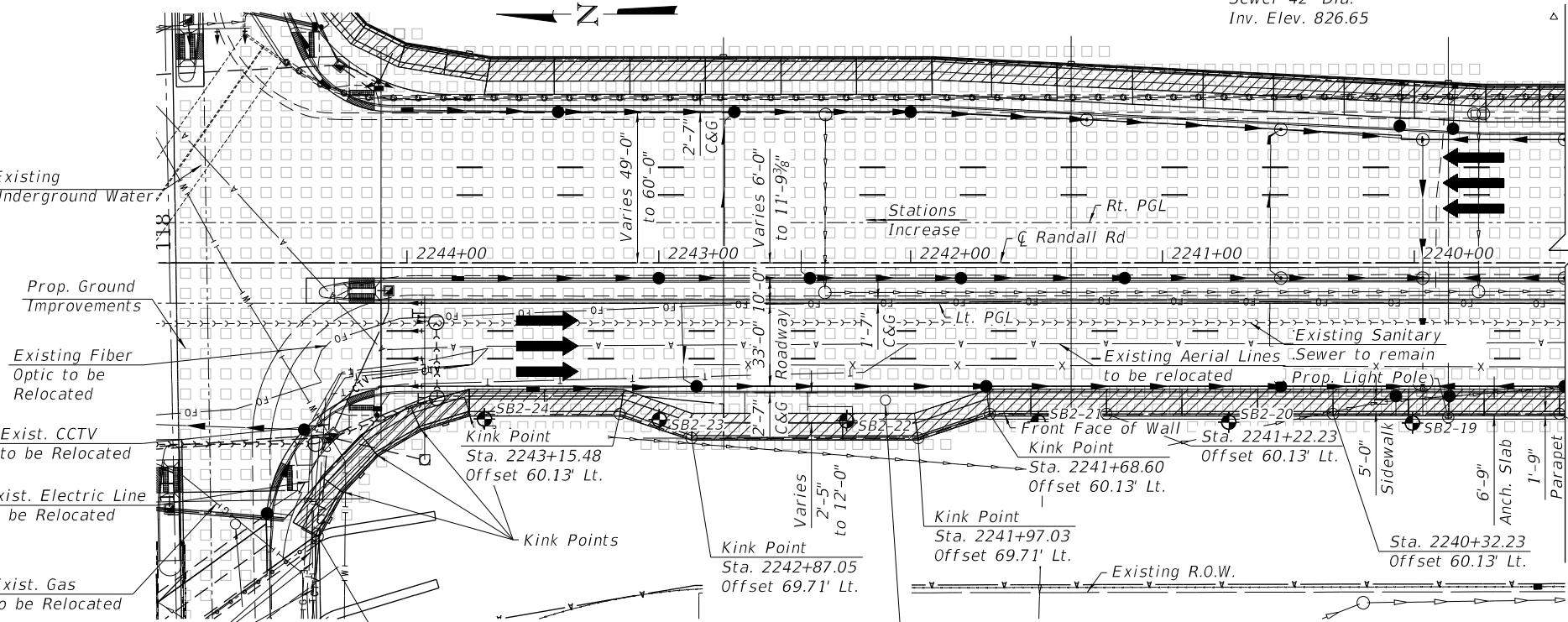
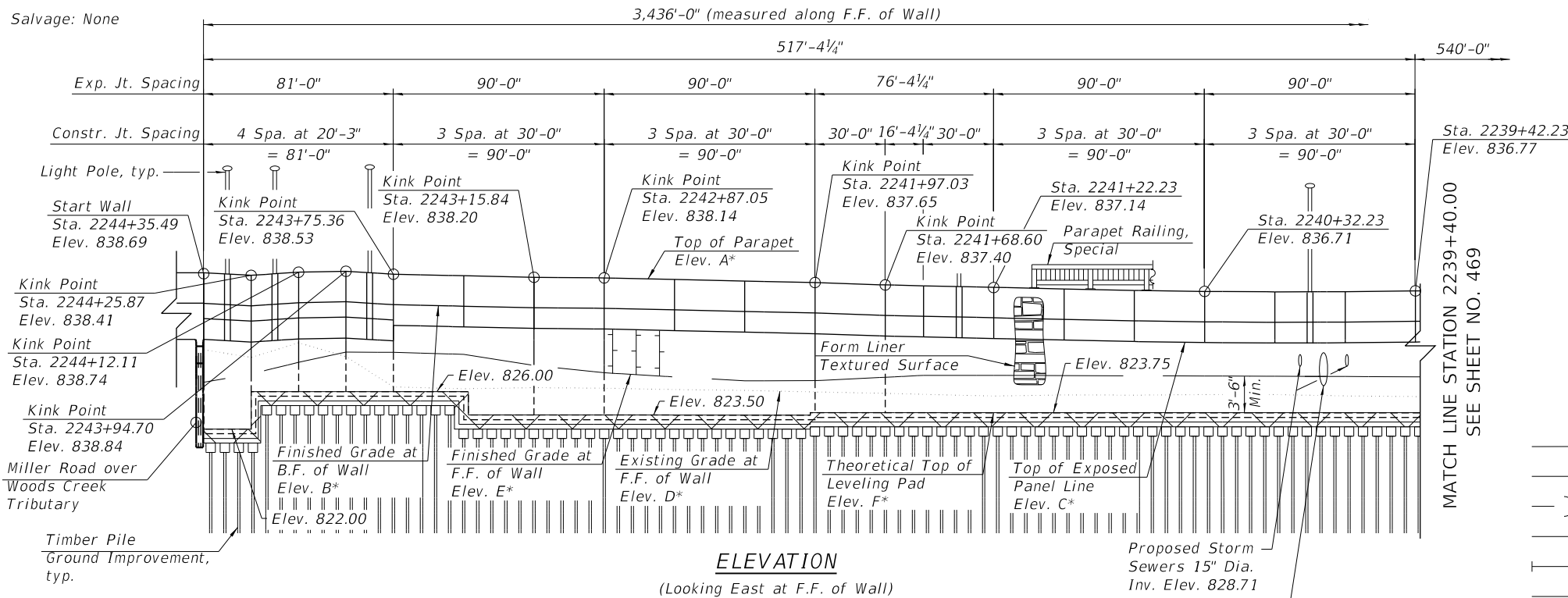


**DESIGN STRESSES**

**FIELD UNITS**  
 f'c = 4,000 psi  
 F'c = 1,200 psi (Timber Piles)  
 fy = 60,000 psi (Reinforcement)  
**PRECAST UNITS**  
 f'c = 4,500 psi

*Matthew D. Santeford*  
 MATTHEW D. SANTEFORD, P.E., S.E.  
 NO. 081-007244  
 EXP. DATE 11/30/2024

"I certify that to the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current 'AASHTO LRFD Bridge Design Specifications'."



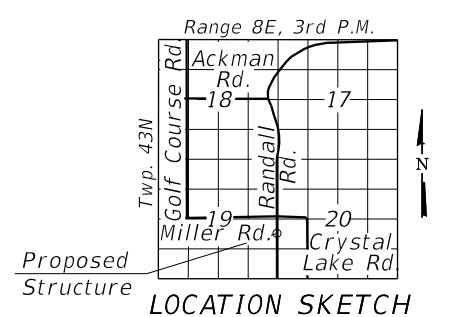
**PLAN**  
 Notes:  
 1. Wall offsets are measured from the  $\bar{c}$  of Randall Road to the front face of wall.  
 2. F.F. = Front Face  
 3. B.F. = Back Face  
 4. Wall to be built along straight chords between construction and expansion joints.  
 5. Temporary Soil Retention System and Temporary MSE Wall limits not shown in plan. See sections on Sheet S3-08 and S3-11 of S3-67 for details.

**LEGEND**

- A — Ex. Aerial Lines
- FO — Ex. Fiber Optic
- ) ) — Ex. Underground Sanitary Sewer
- CTV — Ex. CCTV
- | G | — Ex. Gas Line
- T — Ex. Telephone Line
- E — Ex. Electric Line
- | W | — Ex. Underground Water Lines
- Ex. Catch Basin
- ⊙ Ex. Manhole
- ▨ Limits of Reinforced Soil Mass
- ▬ Proposed Inlet
- ⊕ Soil Boring
- Proposed Catch Basin
- ⊙ Proposed Manhole

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



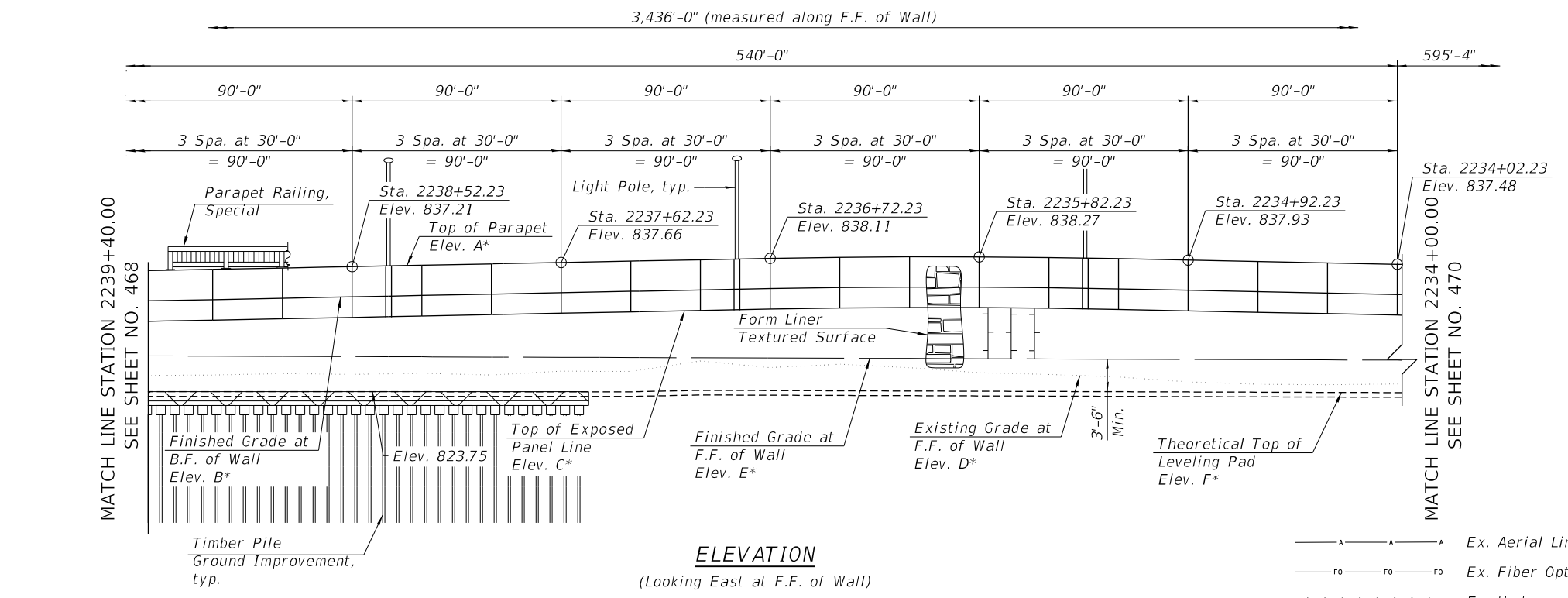
**GENERAL PLAN AND ELEVATION - 1**  
**RETAINING WALL 2**  
**ALONG RANDALL ROAD**  
**F.A.P. RTE. 336**  
**SECTION 06-00329-02-PW**  
**MCHENRY COUNTY**  
**STATION 2227+81.09 TO 2244+35.49**  
**STRUCTURE NO. 056-W302**

\* For Elevations, See Table 1 on Sheet S3-10 of S3-67.

**TRANSYSTEMS**  
 1475 EAST WOODFIELD ROAD, SUITE 600  
 SCHAMBURG, ILLINOIS 60173  
 (847) 605-9600

USER NAME = tjallen	DESIGNED - JE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION - 1 STRUCTURE NO. 056-W302	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 64.0000' / in.	CHECKED - MDS	REVISED -			336	06-00329-02-PW	MCHENRY	735	468
PLOT DATE = 6/13/2024	DATE - 6/14/2024	REVISED -			CONTRACT NO. 61193		ILLINOIS	FED. AID PROJECT	



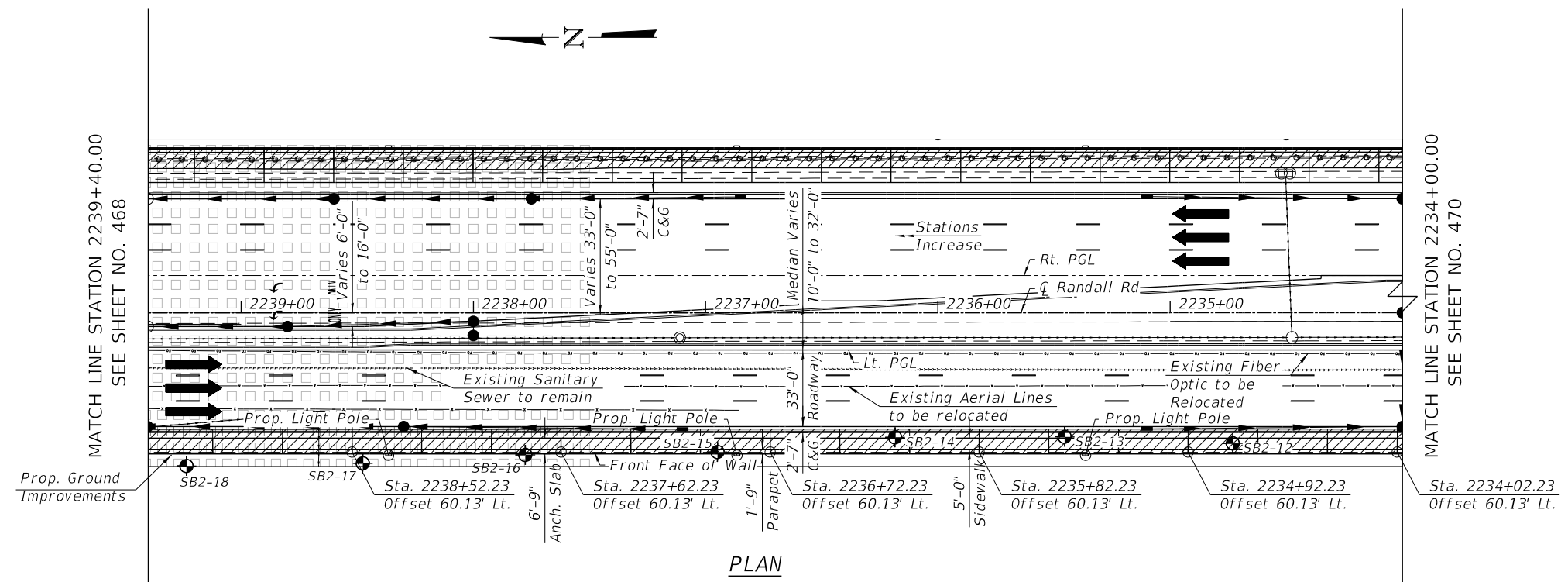


\* For Elevations, See Table 1 on Sheet S3-10 of S3-67.

**ELEVATION**  
 (Looking East at F.F. of Wall)

**LEGEND**

- ▲—▲—▲—▲— Ex. Aerial Lines
- FO—FO—FO— Ex. Fiber Optic
- S—S—S—S—S—S— Ex. Underground Sanitary Sewer
- CTV—CTV—CTV— Ex. CCTV
- G—G—G—G—G— Ex. Gas Line
- T—T—T—T—T— Ex. Telephone Line
- E—E—E—E—E— Ex. Electric Line
- W—W—W—W—W— Ex. Underground Water Lines
- Ex. Catch Basin
- ⊙ Ex. Manhole
- ▨ Limits of Reinforced Soil Mass
- ▬ Proposed Inlet
- ⊕ Soil Boring
- Proposed Catch Basin
- ⊙ Proposed Manhole



**PLAN**

USER NAME = tjallen	DESIGNED - JE	REVISED -
PLOT SCALE = 64.0000' / in.	DRAWN - JE	REVISED -
PLOT DATE = 6/13/2024	CHECKED - MDS	REVISED -
	DATE - 6/14/2024	REVISED -

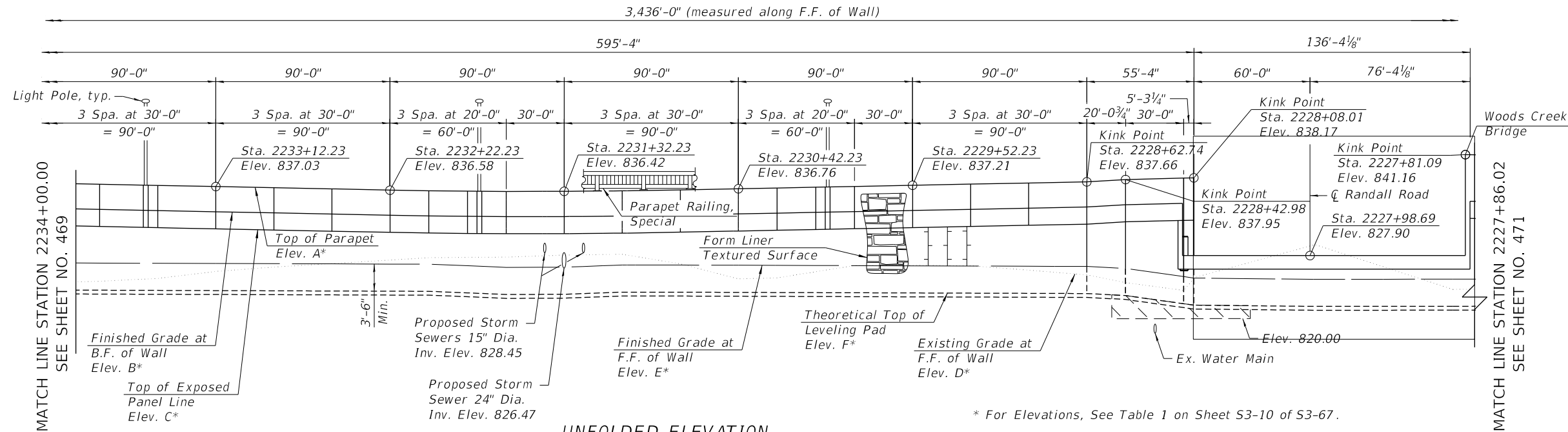
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION - 2  
 STRUCTURE NO. 056-W302**

SHEET 53-02 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	469
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

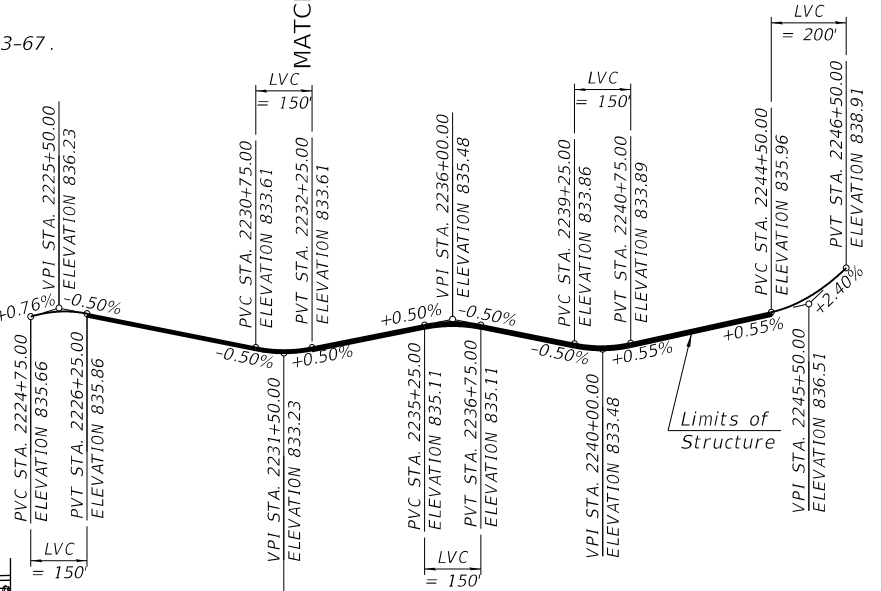
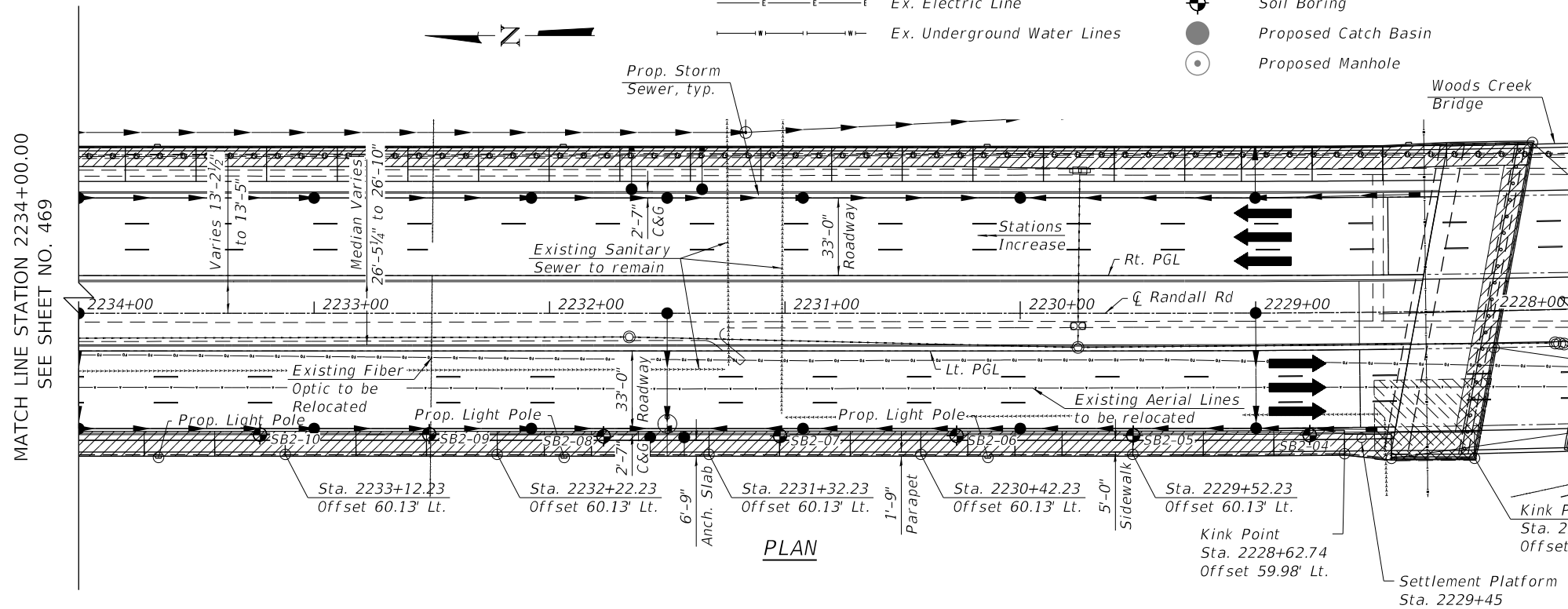
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**UNFOLDED ELEVATION**  
 (Looking East at F.F. of Wall)

**LEGEND**

- A — A — A — Ex. Aerial Lines
- FO — FO — FO — Ex. Fiber Optic
- S — S — S — S — Ex. Underground Sanitary Sewer
- CTV — CTV — CTV — Ex. CCTV
- G — G — G — Ex. Gas Line
- T — T — T — Ex. Telephone Line
- E — E — E — Ex. Electric Line
- W — W — W — Ex. Underground Water Lines
- Ex. Catch Basin
- ⊙ Ex. Manhole
- ▨ Limits of Reinforced Soil Mass
- ▧ Limits of Removal of Unsuitable Material for Structures. Backfill with Porous Granular Embankment.
- Proposed Inlet
- ⊕ Soil Boring
- Proposed Catch Basin
- ⊙ Proposed Manhole



MATCH LINE STATION 2234+00.00  
 SEE SHEET NO. 469

MATCH LINE STATION 2227+86.02  
 SEE SHEET NO. 471

USER NAME = tjallen	DESIGNED - JE	REVISED -
PLOT SCALE = 64.0000' / in.	DRAWN - JE	REVISED -
PLOT DATE = 6/13/2024	CHECKED - MDS	REVISED -
	DATE - 6/14/2024	REVISED -

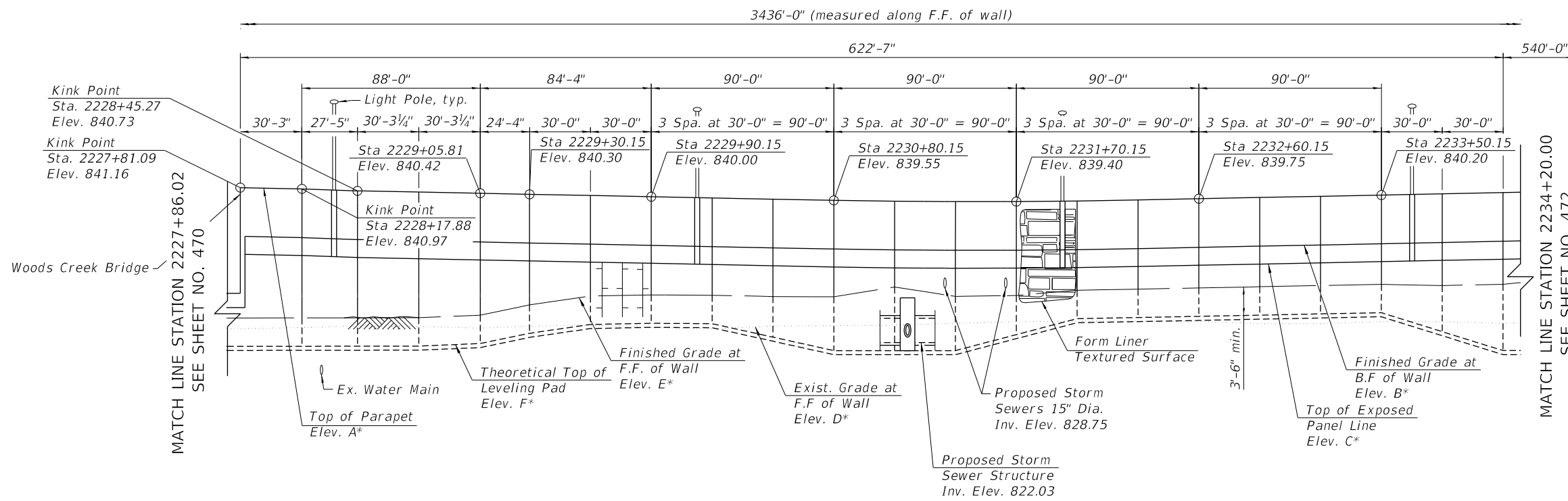
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION - 3  
 STRUCTURE NO. 056-W302**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	470
				CONTRACT NO. 61193
		ILLINOIS	FED. AID PROJECT	

SHEET 53-03 OF 53-67 SHEETS

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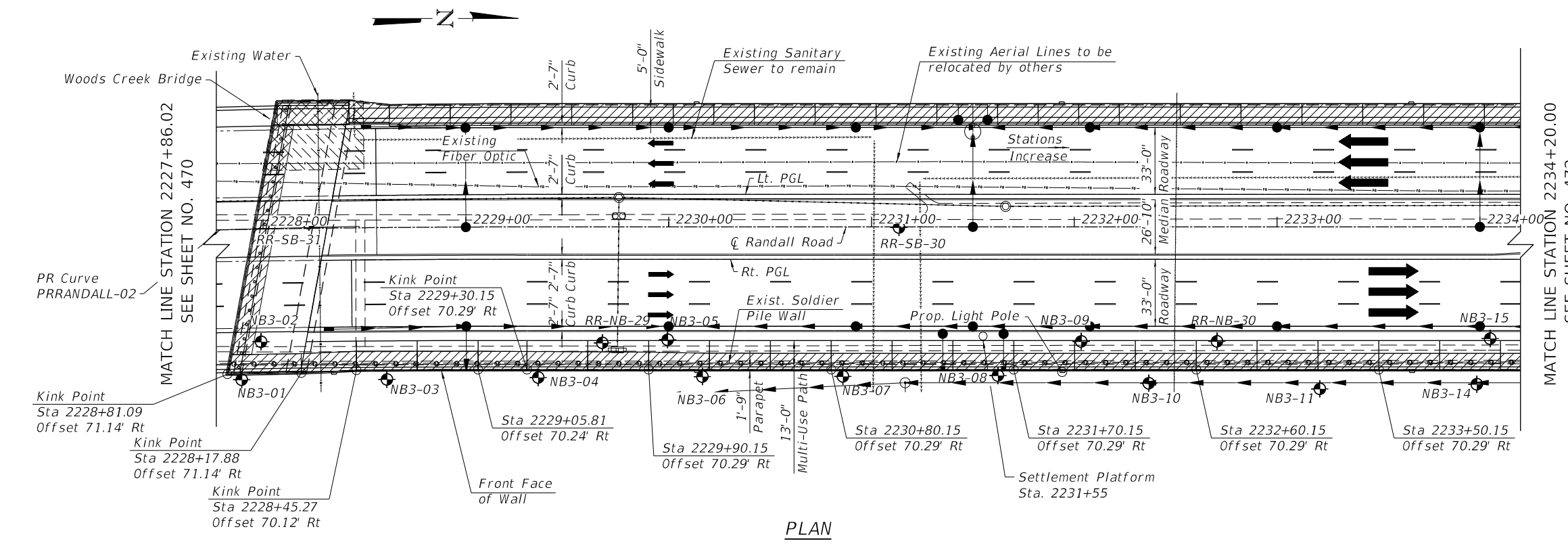


**UNFOLDED ELEVATION**  
 (Looking West at F.F. of Wall)

**LEGEND**

- Ex. Aerial Lines
- Ex. Fiber Optic
- - - - - Ex. Underground Sanitary Sewer
- Ex. CCTV
- Ex. Gas Line
- Ex. Telephone Line
- Ex. Electric Line
- Ex. Underground Water Lines
- Ex. Catch Basin
- Ex. Manhole
- ▨ Limits of Reinforced Soil Mass
- ▨ Limits of Removal of Unsuitable Material for Structures. Backfill with Porous Granular Embankment.
- Proposed Inlet
- ⊕ Soil Boring
- Proposed Catch Basin
- Proposed Manhole

\* For Elevations, See Table 1 on Sheet S3-10 of S3-67.



**PLAN**

USER NAME = tjallen	DESIGNED - SN	REVISED -
DRAWN - SN	REVISIONS -	
PLOT SCALE = 64.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/13/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION - 4**  
**STRUCTURE NO. 056-W302**

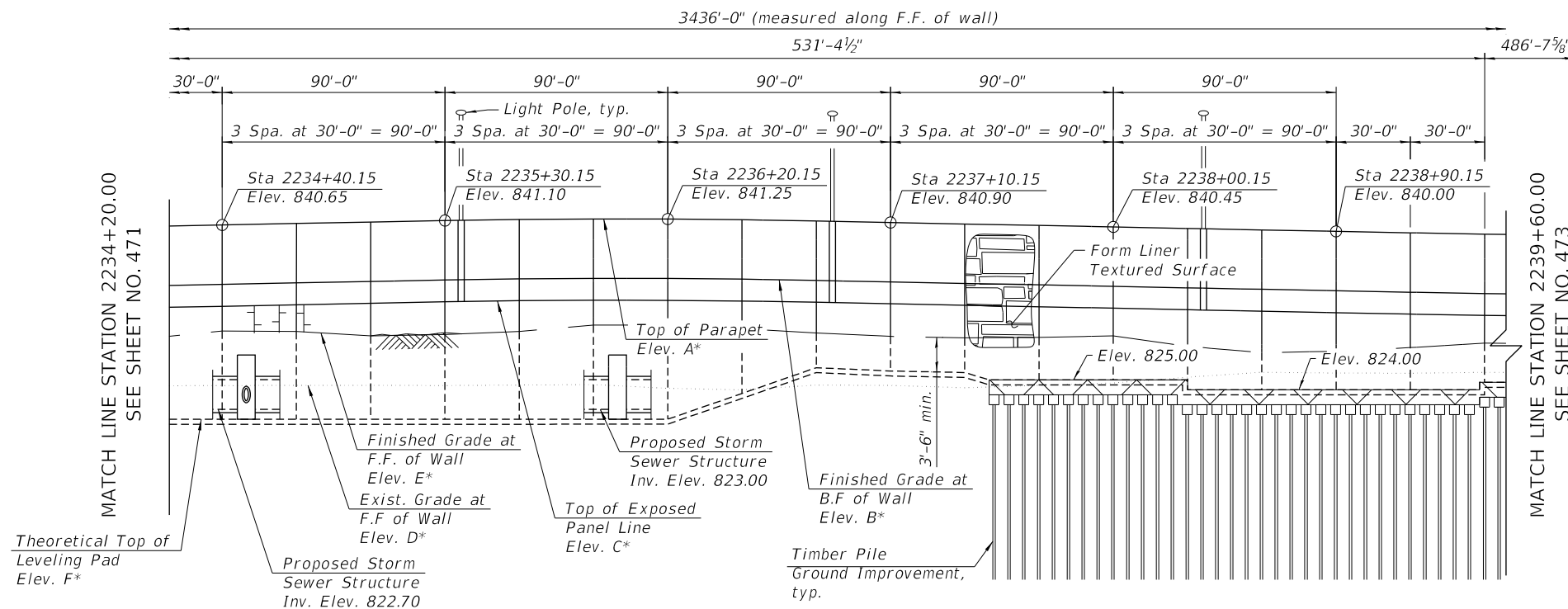
SHEET 53-04 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

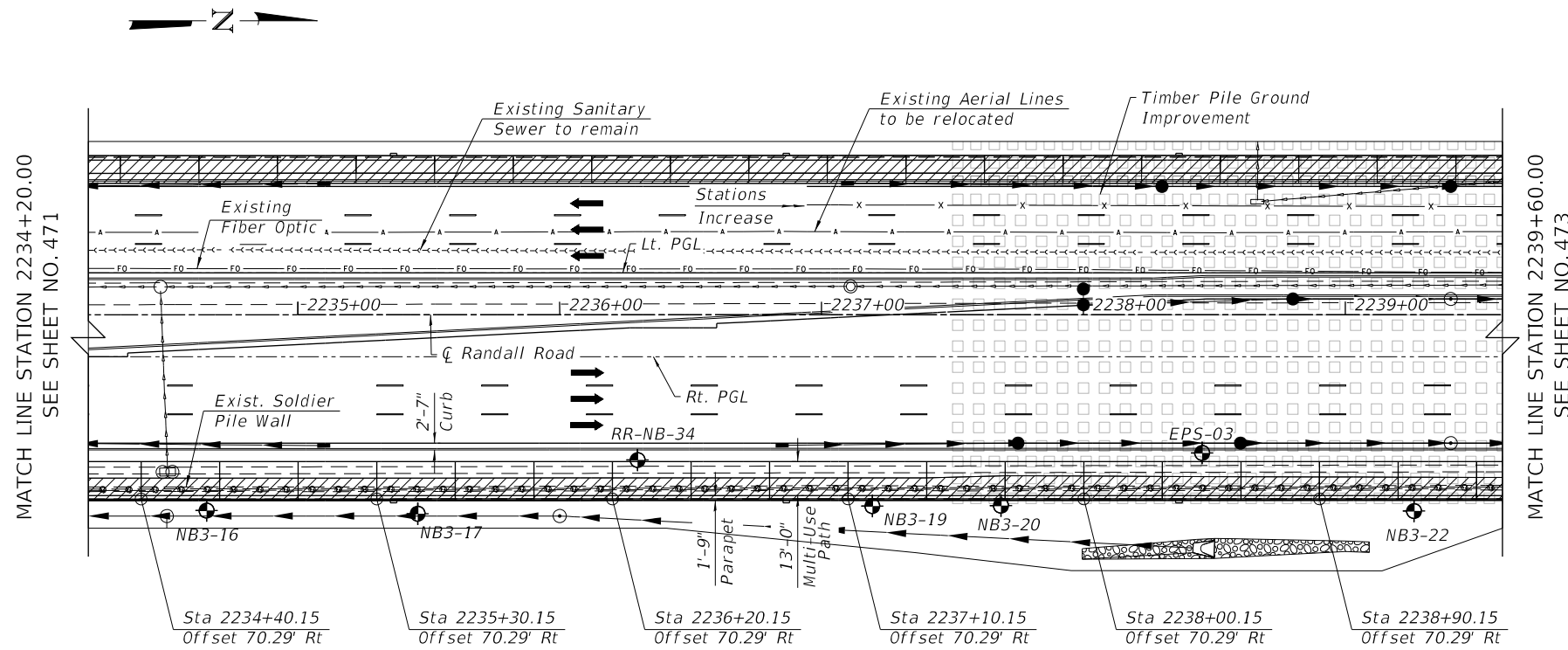
**LEGEND**

- A — A — A — Ex. Aerial Lines
- FO — FO — FO — Ex. Fiber Optic
- - - - - Ex. Underground Sanitary Sewer
- CCTV — CCTV — CCTV — Ex. CCTV
- G — G — G — Ex. Gas Line
- T — T — T — Ex. Telephone Line
- E — E — E — Ex. Electric Line
- W — W — W — Ex. Underground Water Lines
- Ex. Catch Basin
- ⊙ Ex. Manhole
- ▨ Limits of Reinforced Soil Mass
- ▬ Proposed Inlet
- ⊕ Soil Boring
- Proposed Catch Basin
- ⊙ Proposed Manhole

\* For Elevations, See Table 1 on Sheet S3-10 of S3-67.



**ELEVATION**  
(Looking West at F.F. of Wall)

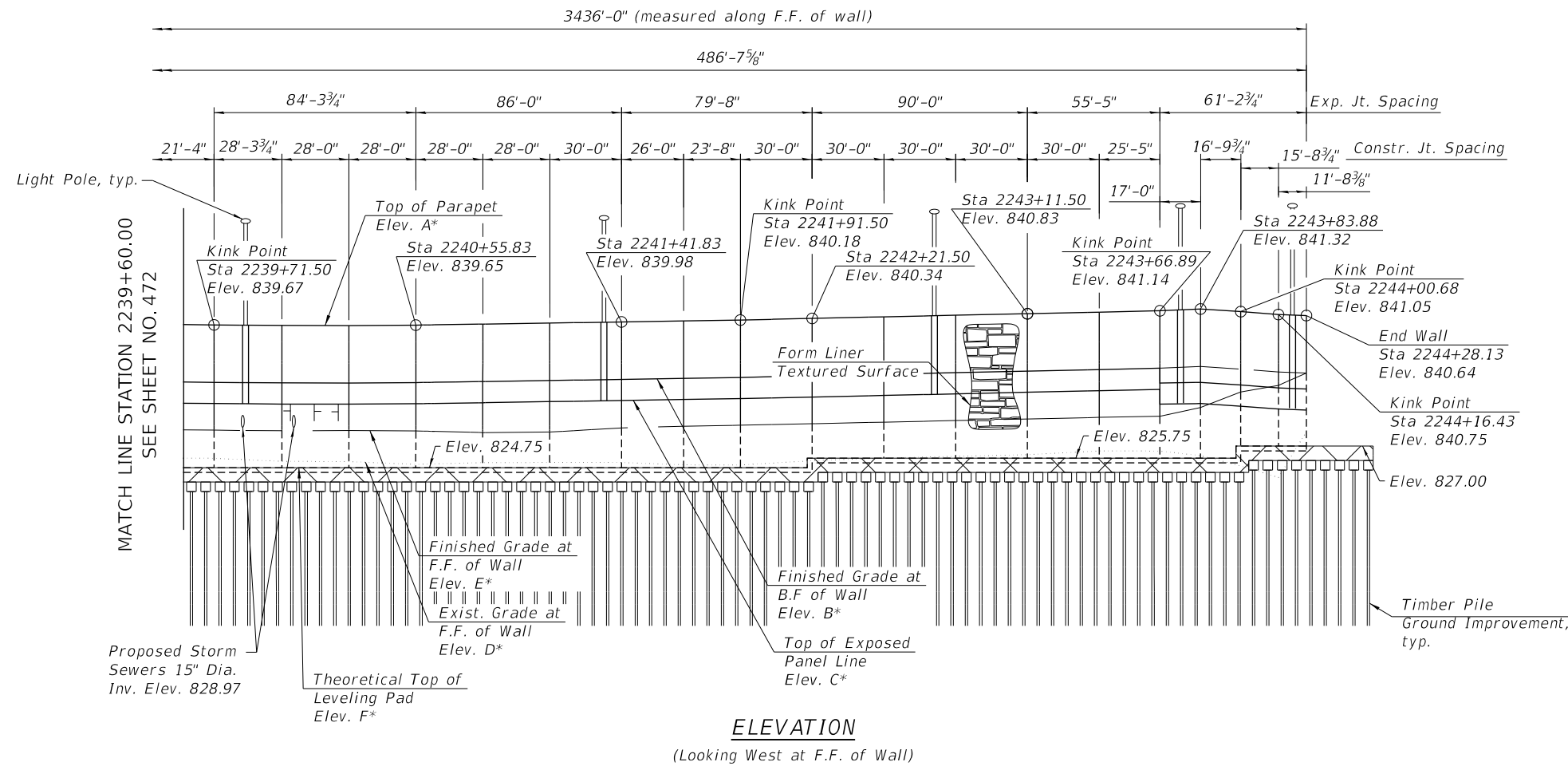


**PLAN**

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DRAWN - SN	REVISIONS -	
PLOT SCALE = 64.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/13/2024	DATE - 6/14/2024	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

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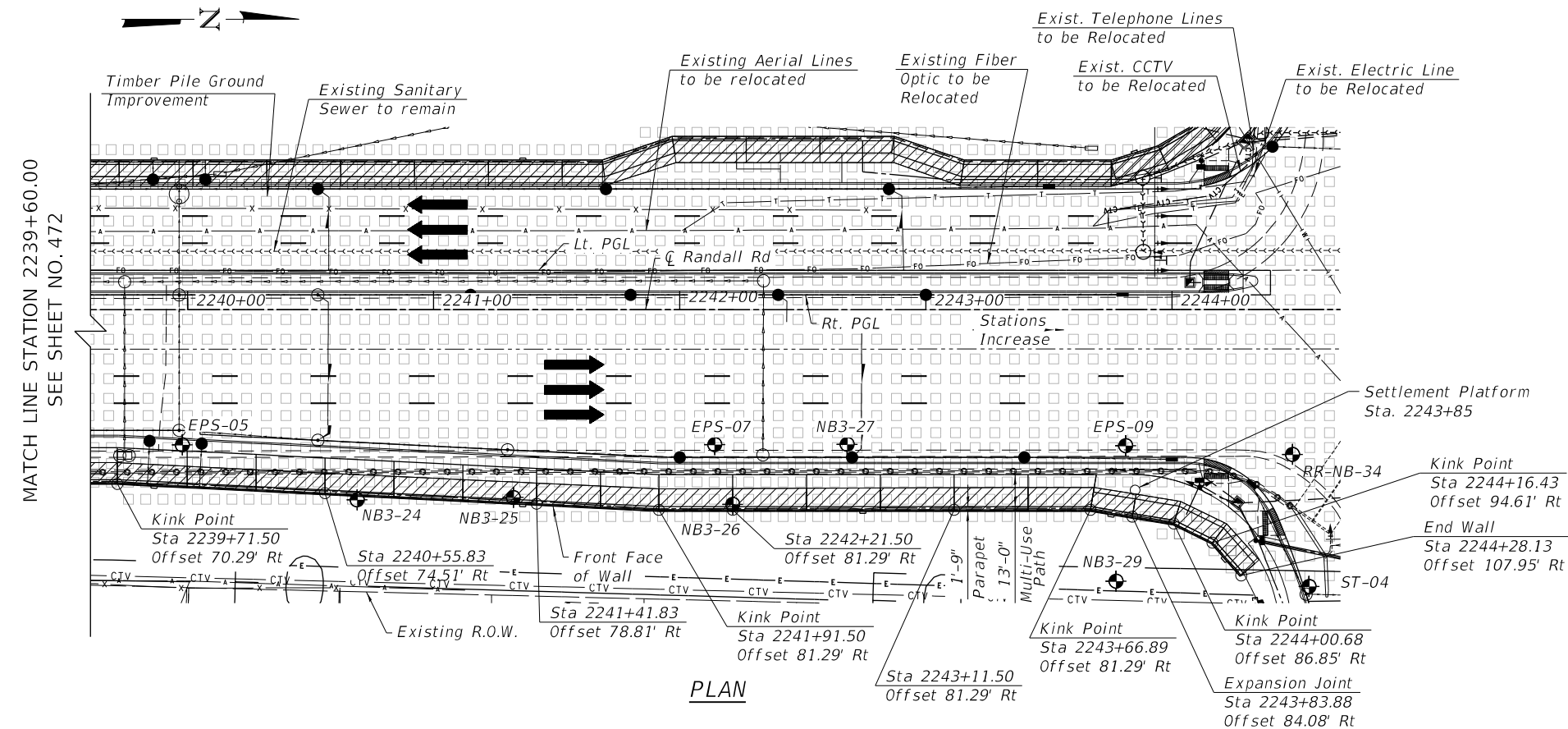


**ELEVATION**  
 (Looking West at F.F. of Wall)

**LEGEND**

	Ex. Aerial Lines
	Ex. Fiber Optic
	Ex. Underground Sanitary Sewer
	Ex. CCTV
	Ex. Gas Line
	Ex. Telephone Line
	Ex. Electric Line
	Ex. Underground Water Lines
	Ex. Catch Basin
	Ex. Manhole
	Limits of Reinforced Soil Mass
	Proposed Inlet
	Soil Boring
	Proposed Catch Basin
	Proposed Manhole

\* For Elevations, See Table 1 on Sheet S3-10 of S3-67.



**PLAN**

USER NAME = tjallen	DESIGNED - SN	REVISED -
DRAWN - SN	REVISED -	
PLOT SCALE = 64.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/13/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION - 6**  
**STRUCTURE NO. 056-W302**

SHEET 53-06 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	473
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

**GENERAL NOTES**

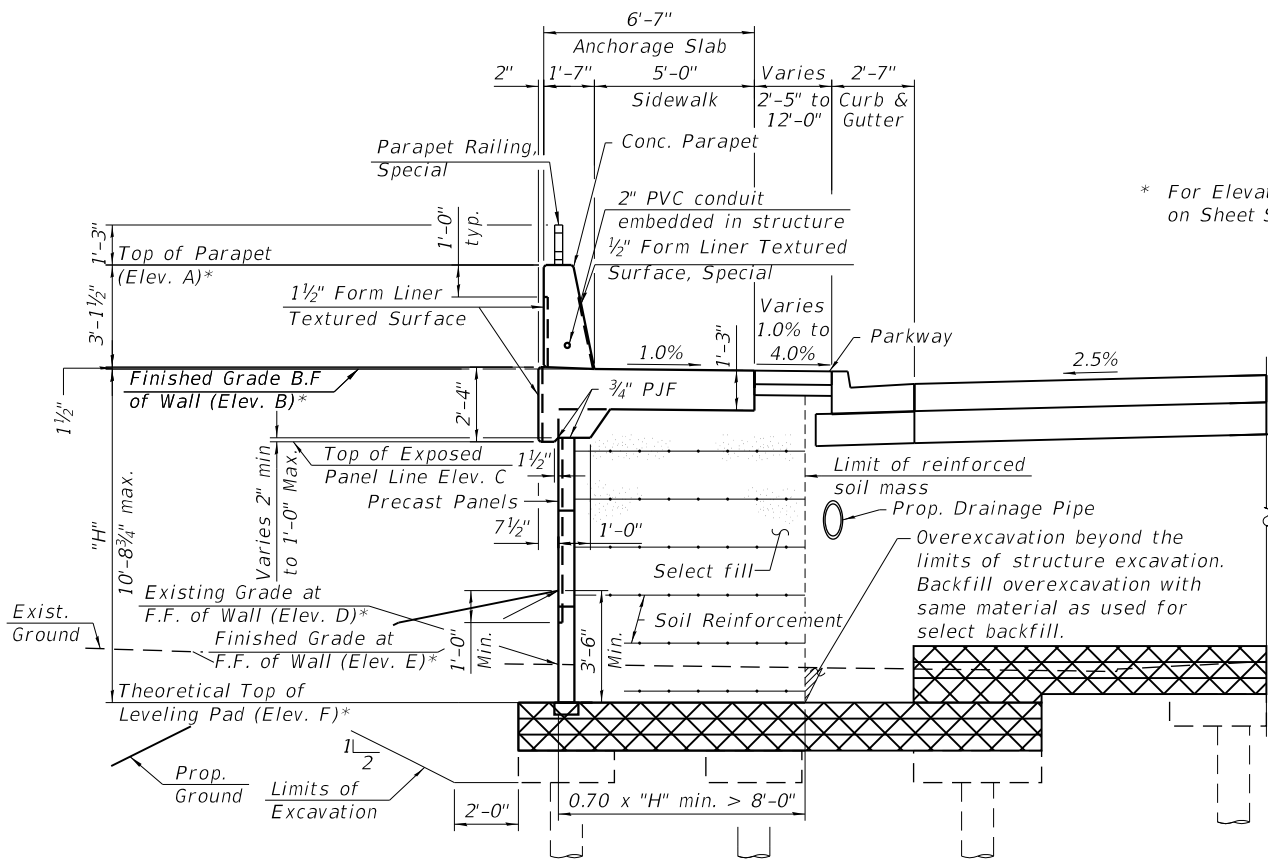
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Form Liner Textured Surface, Special shall be inset into the face of the barrier on the traffic side up to 1/2" deep and 1" wide.
3. The MSE wall supplier's internal stability design shall account for the moment slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 k/ft of wall.
4. Anti-Graffiti Coating shall be applied to all exposed faces of the parapet and the exposed area of the MSE wall panels.
5. Staining shall be applied to areas of Form Liner Textured Surface, Form Liner Textured Surface, Special, and the precast concrete panels of the MSE wall.
6. All dewatering necessary for the construction of this structure shall be according to the Special Provision for Dewatering and shall be included in the Lump Sum for Dewatering.
7. After the embankment is finished and before the moment slab is constructed, monitor settlement at the platforms twice a week for four weeks minimum.

**INDEX OF SHEETS**

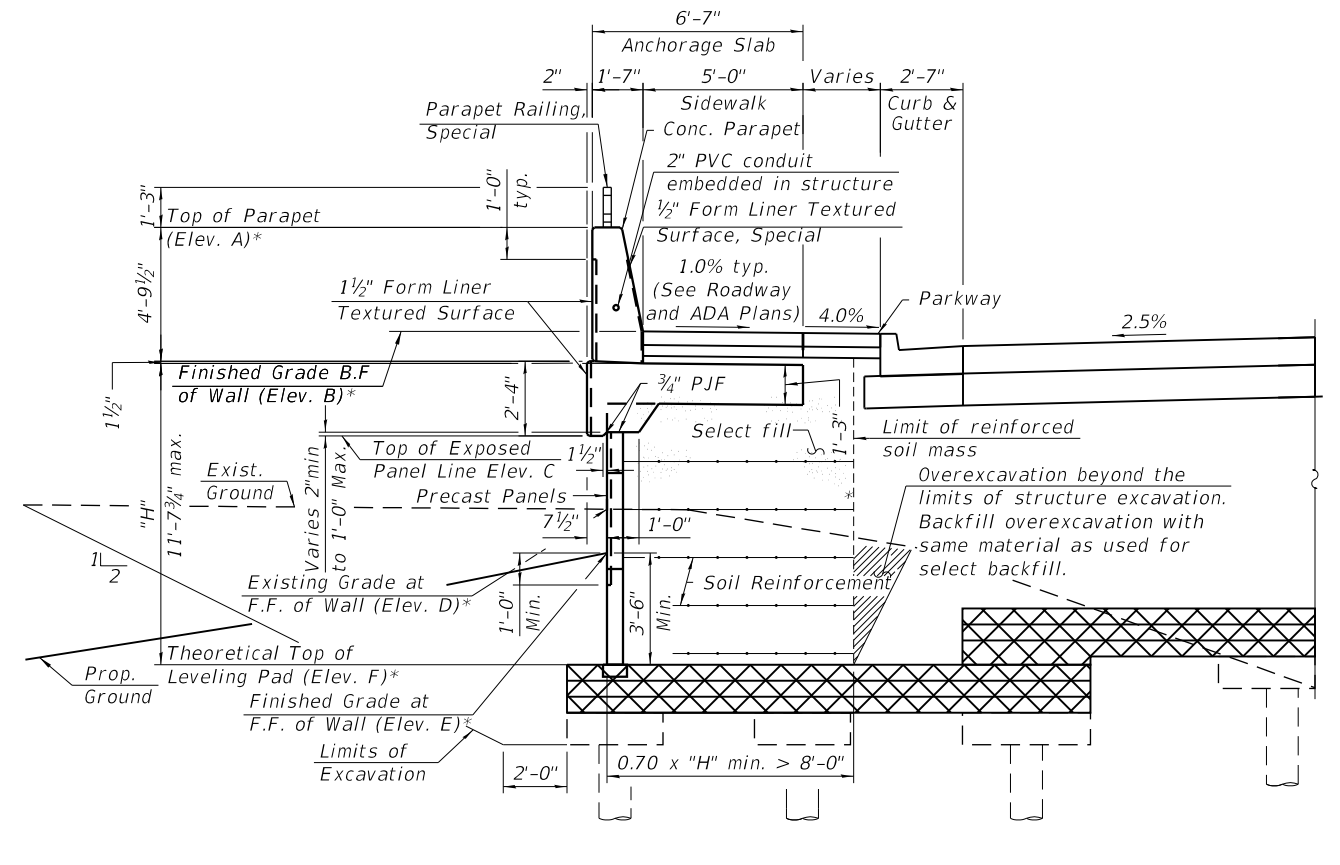
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|--|--|
| 1. General Plan and Elevation 1          | 35. Timber Pile Ground Improvement Layout 1  |
| 2. General Plan and Elevation 2          | 36. Timber Pile Ground Improvement Layout 2  |
| 3. General Plan and Elevation 3          | 37. Timber Pile Ground Improvement Layout 3  |
| 4. General Plan and Elevation 4          | 38. Timber Pile Ground Improvement Details 1 |
| 5. General Plan and Elevation 5          | 39. Timber Pile Ground Improvement Details 2 |
| 6. General Plan and Elevation 6          | 40. Boring Logs 1                            |
| 7. General Data 1                        | 41. Boring Logs 2                            |
| 8. General Data 2                        | 42. Boring Logs 3                            |
| 9. General Data 3                        | 43. Boring Logs 4                            |
| 10. General Data 4                       | 44. Boring Logs 5                            |
| 11. Stage Construction Details           | 45. Boring Logs 6                            |
| 12. Anchorage Slab Plan and Elevation 1  | 46. Boring Logs 7                            |
| 13. Anchorage Slab Plan and Elevation 2  | 47. Boring Logs 8                            |
| 14. Anchorage Slab Plan and Elevation 3  | 48. Boring Logs 9                            |
| 15. Anchorage Slab Plan and Elevation 4  | 49. Boring Logs 10                           |
| 16. Anchorage Slab Plan and Elevation 5  | 50. Boring Logs 11                           |
| 17. Anchorage Slab Plan and Elevation 6  | 51. Boring Logs 12                           |
| 18. Anchorage Slab Plan and Elevation 7  | 52. Boring Logs 13                           |
| 19. Anchorage Slab Plan and Elevation 8  | 53. Boring Logs 14                           |
| 20. Anchorage Slab Plan and Elevation 9  | 54. Boring Logs 15                           |
| 21. Anchorage Slab Plan and Elevation 10 | 55. Boring Logs 16                           |
| 22. Anchorage Slab Plan and Elevation 11 | 56. Boring Logs 17                           |
| 23. Anchorage Slab Plan and Elevation 12 | 57. Boring Logs 18                           |
| 24. Anchorage Slab Plan and Elevation 13 | 58. Boring Logs 19                           |
| 25. Anchorage Slab Plan and Elevation 14 | 59. Boring Logs 20                           |
| 26. Anchorage Slab Plan and Elevation 15 | 60. Boring Logs 21                           |
| 27. Anchorage Slab Plan and Elevation 16 | 61. Boring Logs 22                           |
| 28. Anchorage Slab Plan and Elevation 17 | 62. Boring Logs 23                           |
| 29. Anchorage Slab Plan and Elevation 18 | 63. Boring Logs 24                           |
| 30. Anchorage Slab Plan and Elevation 19 | 64. Boring Logs 25                           |
| 31. Anchorage Slab Plan and Elevation 20 | 65. Boring Logs 26                           |
| 32. Anchorage Slab Details 1             | 66. Boring Logs 27                           |
| 33. Anchorage Slab Details 2             | 67. Boring Logs 28                           |
| 34. Railing Details                      |  |

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Granular Embankment, Special	Cu. Yd.	6,814
Porous Granular Embankment	Cu. Yd.	331
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	4,041
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	340
Concrete Superstructure	Cu. Yd.	2,572.2
Form Liner Textured Surface	Sq. Ft.	18,940
Protective Coat	Sq. Yd.	5,088
Precast Concrete Caps	Each	2,177
Reinforcement Bars, Epoxy Coated	Pound	459,910
Driving Piles	Foot	76,904
Furnishing Treated Piles 20.1 to 38 Feet	Foot	44,914
Furnishing Treated Piles Over 38 Feet	Foot	31,990
Temporary Soil Retention System	Sq. Ft.	10,840
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	34,980
Temporary Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	11,150
Biaxial Geogrid	Sq. Yd.	24,647
Anti-Graffiti Coating	Sq. Ft.	56,060
Form Liner Textured Surface, Special	Sq. Ft.	11,866
Staining Concrete Structures	Sq. Ft.	46,941
Parapet Railing, Special	Foot	1,618
Test Pile Timber	Each	16
Settlement Platforms	Each	5



**TYPICAL SECTION THRU RETAINING WALL WITH SLAB AT GRADE AT GROUND IMPROVEMENT**  
(West leg shown, east leg similar)  
(Looking North)

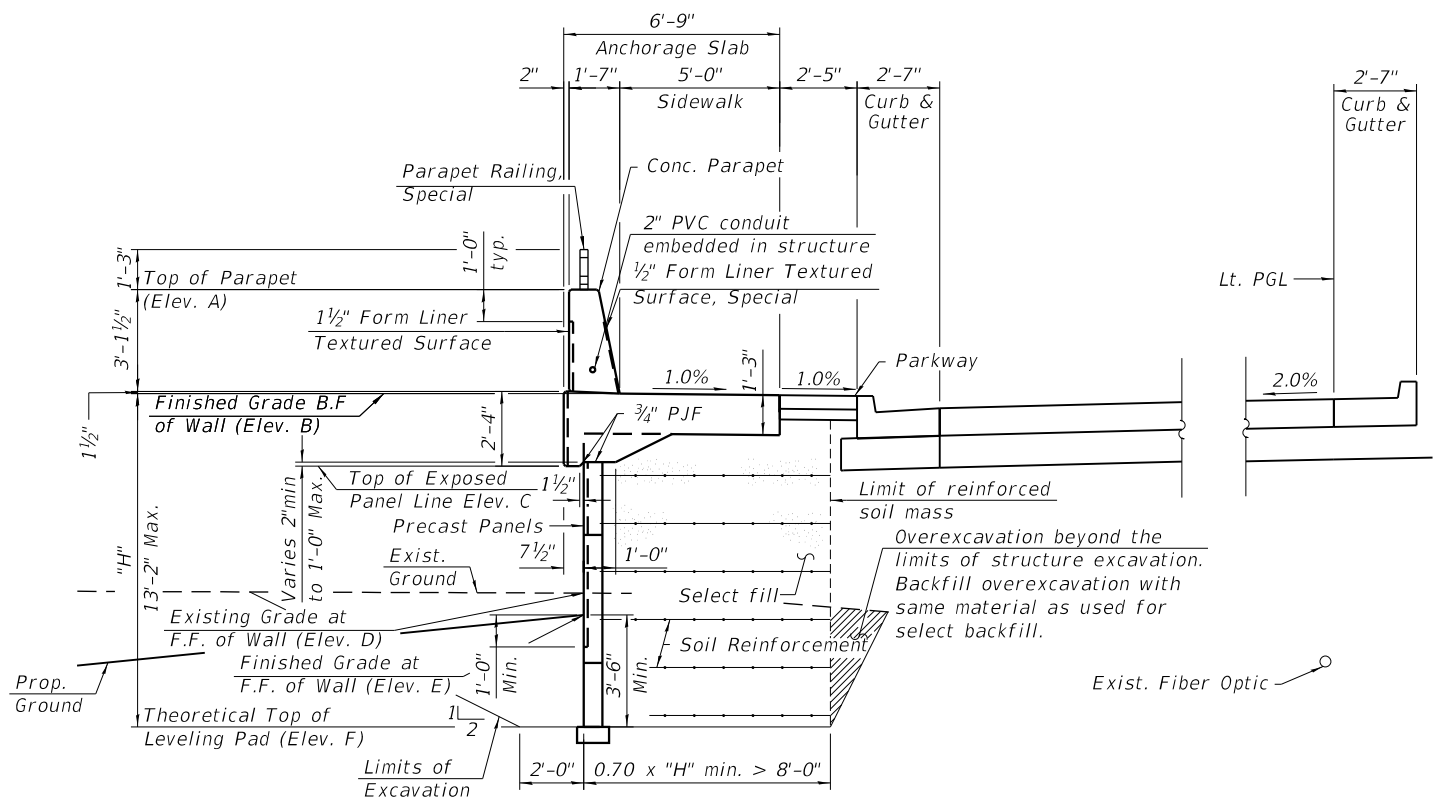


**TYPICAL SECTION THRU RETAINING WALL WITH BURIED SLAB AT GROUND IMPROVEMENT**  
(West leg shown, east leg similar)  
(Looking North)

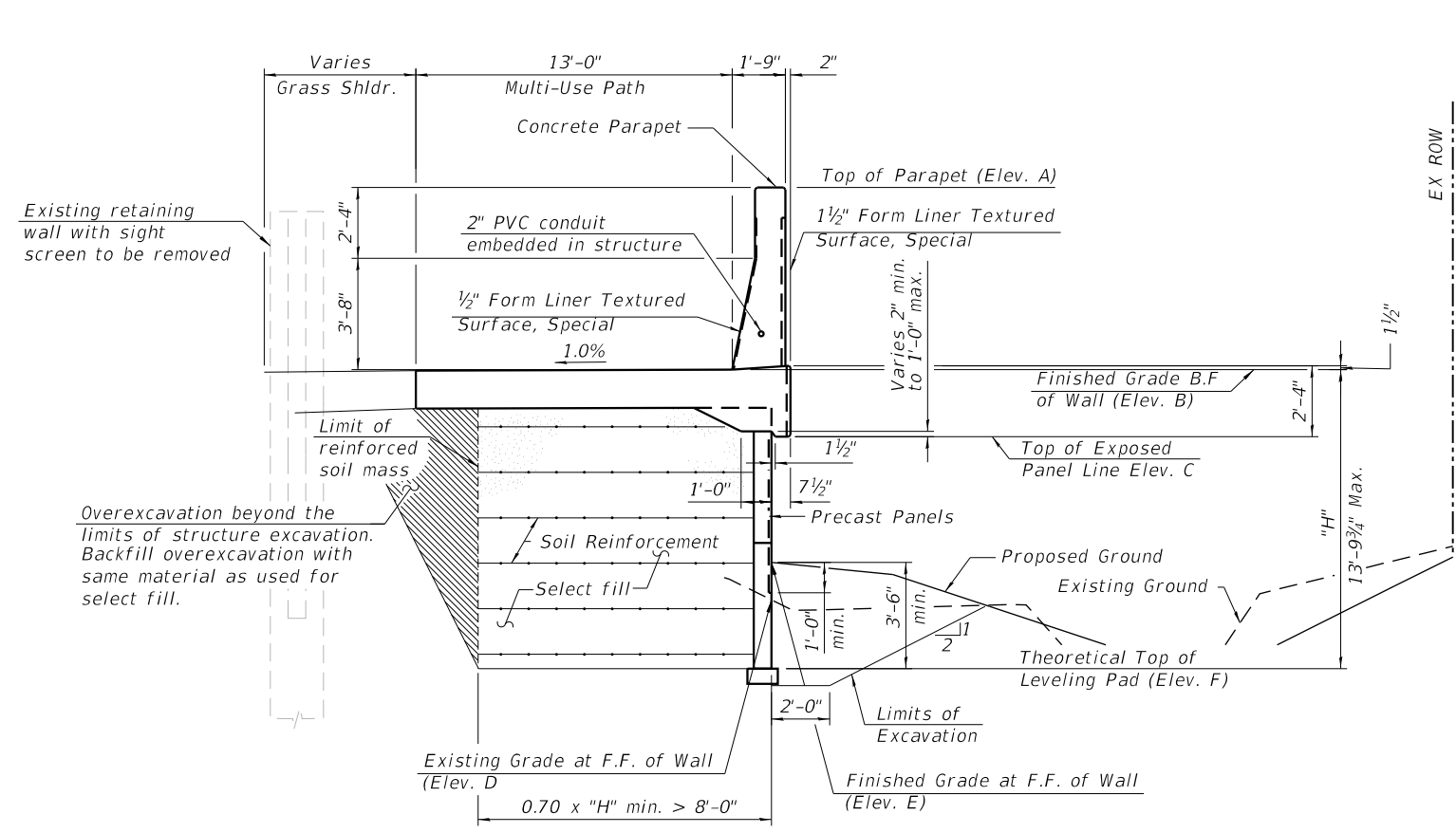
\* For Elevations, See Table 1 on Sheet S3-10 of S3-67.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 6:0" = 1" / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

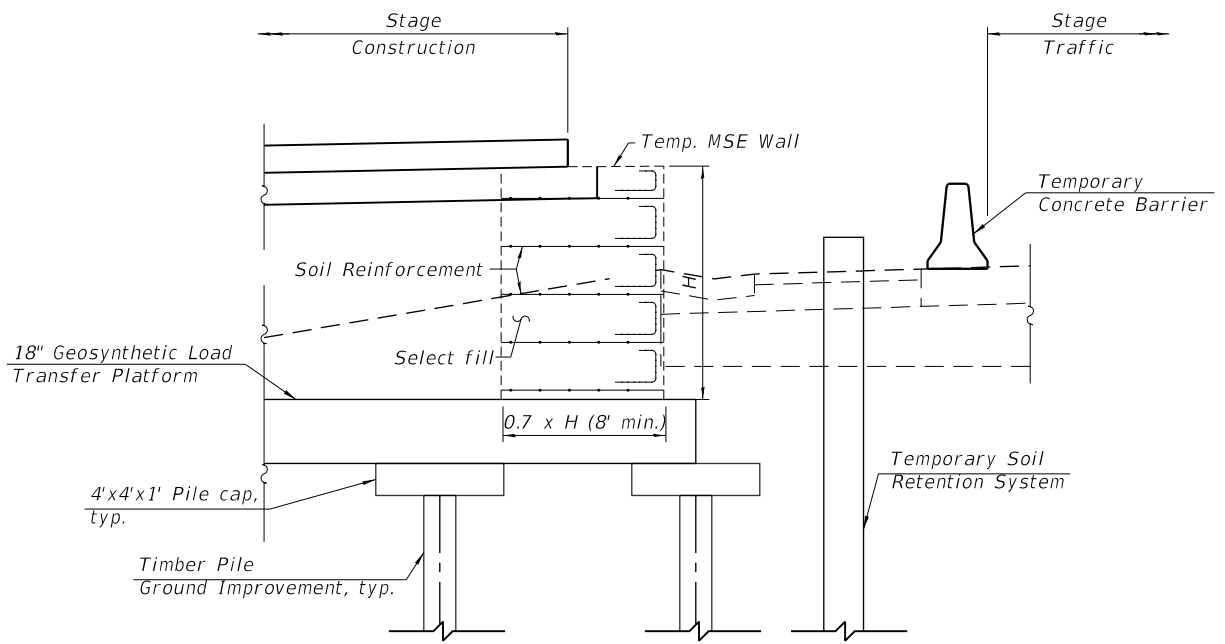
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	474
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	



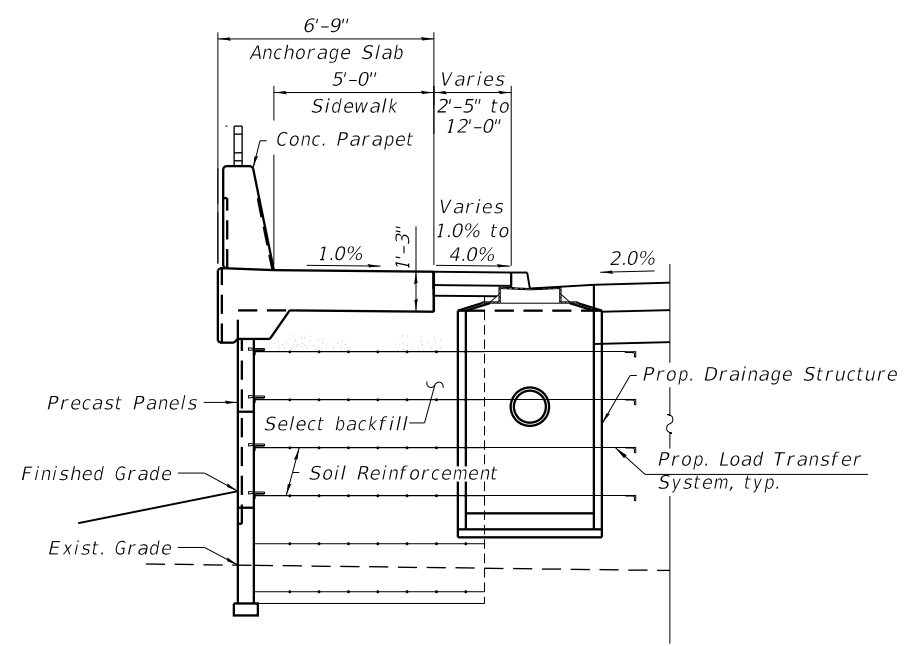
**TYPICAL SECTION THRU RETAINING WALL 2 (WEST LEG)**  
(Looking North)



**TYPICAL SECTION THRU RETAINING WALL 2 (EAST LEG)**  
(Looking North)



**TYPICAL SECTION THRU TEMPORARY MSE WALL & TEMPORARY SOIL RETENTION SYSTEM AT GROUND IMPROVEMENT**  
(Stage 1 shown, Stage 2 similar)  
(Looking North)



**DRAINAGE DETAIL AT BACK OF MSE WALL**  
(West leg shown, east leg similar)  
(Looking North)

**TRANSYSTEMS**  
1475 EAST WOODFIELD ROAD, SUITE 600  
SCHAMBURG, ILLINOIS 60173  
(847) 605-9600

FILE NAME: p:\hpc\mint01\ae-transys\corp\comtransys\corp\pwa\1\Documents\Projects\CH401 - Chicago\RA0113006\140,000\044,000\044,000\Contract\_2\Sheet\Files\23\_Structural\_Sheets\TSC\_Sheet133\_Structural\_Sheet133.dgn

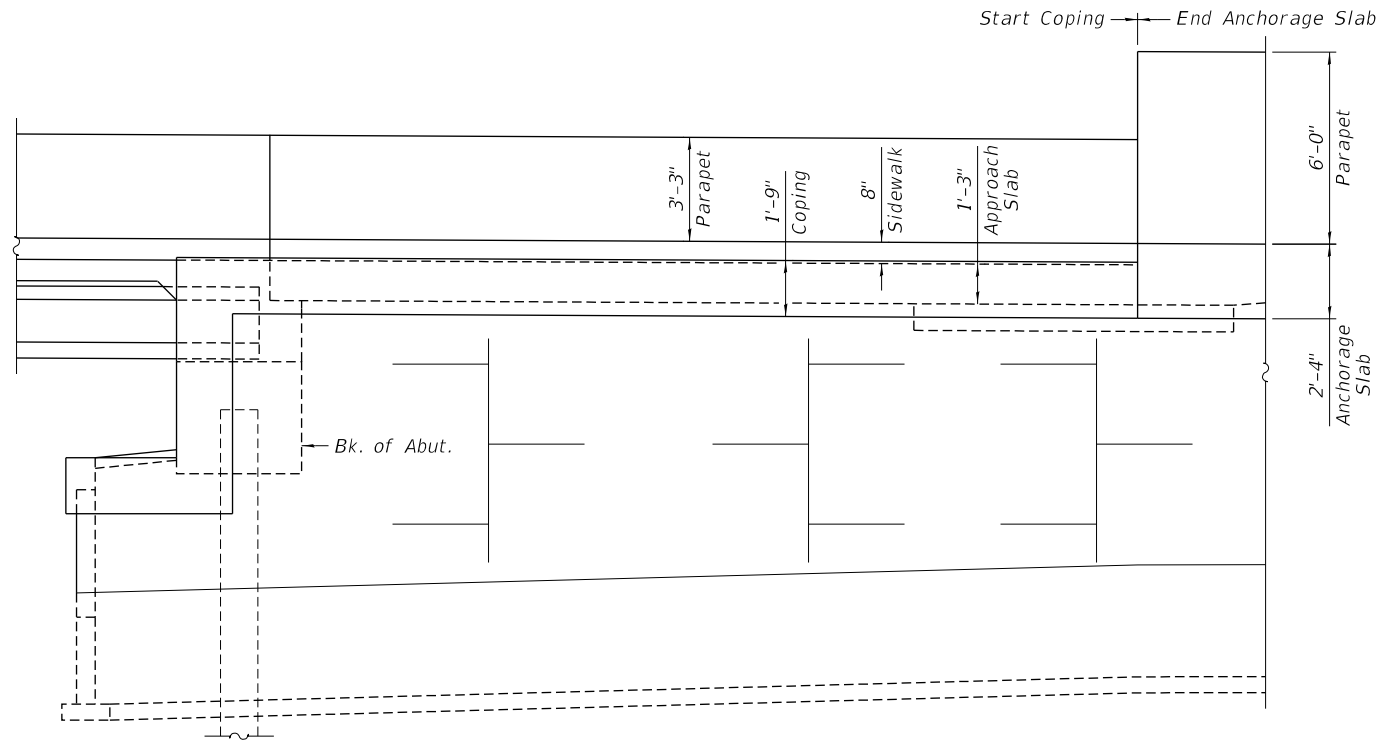
USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	REVISED -	
PLOT SCALE = 6:0 "/ 1 in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

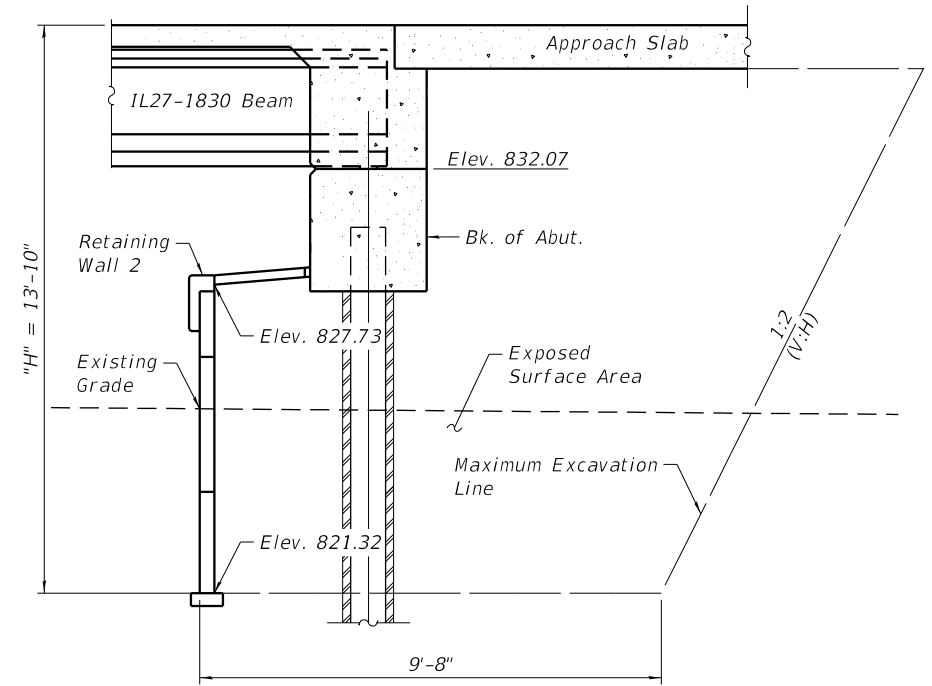
**GENERAL DATA 2  
STRUCTURE NO. 056-W302**

SHEET 53-08 OF 53-67 SHEETS

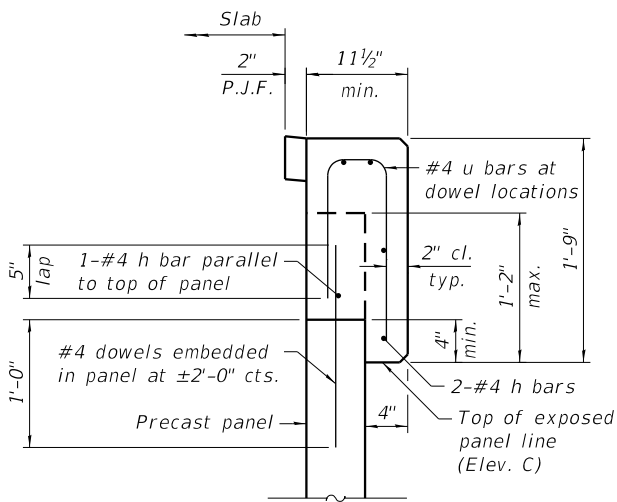
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	475
		CONTRACT NO. 61193		
		ILLINOIS FED. AID PROJECT		



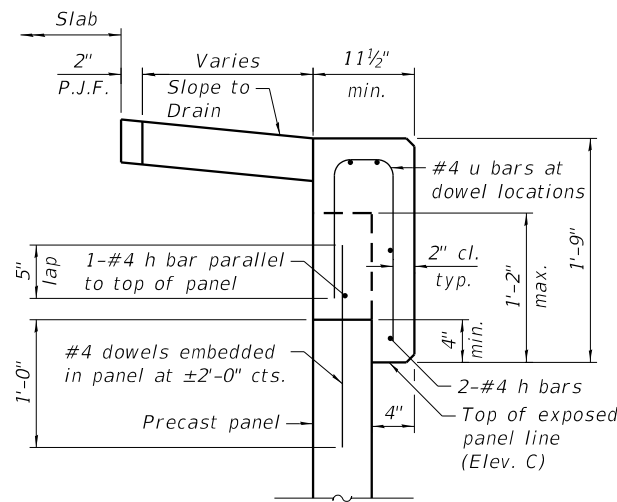
MSE WALL TRANSITION



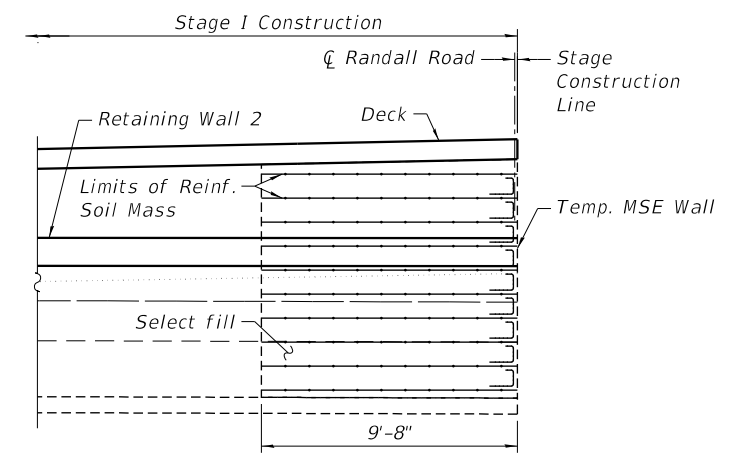
TEMPORARY MSE WALL ELEVATION



COPING DETAIL  
 Along wall without light pole bumpout



TYPICAL COPING DETAIL



SECTION THRU TEMPORARY MSE WALL  
 (Looking North)

USER NAME = Mibeening	DESIGNED - JE	REVISED -
PLOT SCALE = 6.0001' / in.	DRAWN - JE	REVISED -
PLOT DATE = 6/12/2024	CHECKED - MDS	REVISED -
	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA 3  
 STRUCTURE NO. 056-W302**

SHEET 53-09 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	476
CONTRACT NO. 61193			ILLINOIS FED. AID PROJECT	



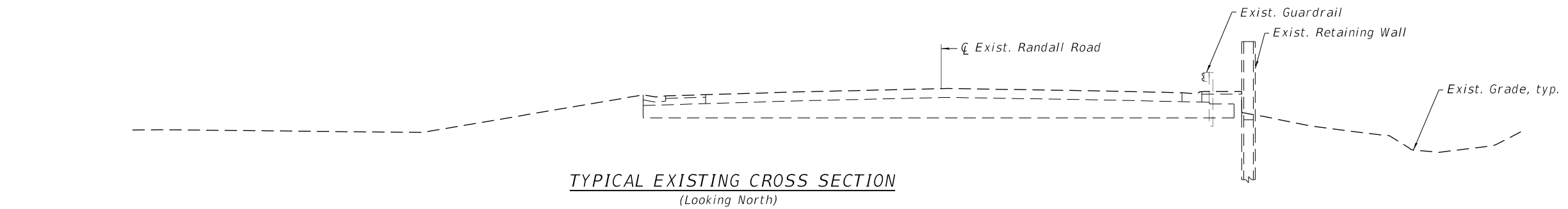
TABLE 1 - WALL ELEVATIONS

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
2244+35.49	108.45' Lt.	838.69	835.44	831.57	830.47	827.00	822.00
2244+25.87	90.93' Lt.	838.41	835.16	831.29	829.64	827.88	822.00
2244+12.11	76.2' Lt.	838.74	835.49	831.62	831.21	829.13	826.00
2243+94.70	66.01' Lt.	838.84	835.59	831.72	829.74	830.22	826.00
2243+75.36	60.13' Lt.	838.53	835.28	831.41	826.50	830.20	826.00
2243+75.36	60.13' Lt.	838.53	835.28	833.07	826.50	830.20	826.00
2243+45.44	60.13' Lt.	838.37	835.12	832.91	826.31	829.98	826.00
2243+15.48	60.13' Lt.	838.20	834.95	832.75	826.42	828.81	823.50
2242+87.05	69.71' Lt.	838.14	834.89	832.69	826.37	828.01	823.50
2242+57.01	69.71' Lt.	837.98	834.73	832.52	826.22	827.57	823.50
2242+27.01	69.71' Lt.	837.81	834.56	832.36	826.14	827.16	823.50
2241+97.03	69.71' Lt.	837.65	834.40	832.19	825.97	827.18	823.75
2241+68.60	60.13' Lt.	837.40	834.15	831.94	825.82	827.54	823.75
2241+52.23	60.13' Lt.	837.31	834.06	831.85	825.72	827.74	823.75
2241+22.23	60.13' Lt.	837.14	833.89	831.68	825.54	827.75	823.75
2240+92.23	60.13' Lt.	836.98	833.73	831.52	825.66	827.72	823.75
2240+62.23	60.13' Lt.	836.82	833.57	831.36	825.64	827.70	823.75
2240+32.23	60.13' Lt.	836.71	833.46	831.25	825.69	827.68	823.75
2240+02.23	60.13' Lt.	836.67	833.42	831.21	825.70	827.65	823.75
2239+72.23	60.13' Lt.	836.69	833.44	831.23	825.55	827.63	823.75
2239+42.23	60.13' Lt.	836.77	833.52	831.31	825.49	827.60	823.75
2239+12.23	60.13' Lt.	836.91	833.66	831.45	825.55	827.58	823.75
2238+82.23	60.13' Lt.	837.06	833.81	831.60	825.70	827.56	823.75
2238+52.23	60.13' Lt.	837.21	833.96	831.75	825.62	827.53	823.75
2238+22.23	60.13' Lt.	837.36	834.11	831.90	825.74	827.51	823.75
2237+92.23	60.13' Lt.	837.51	834.26	832.05	825.55	827.48	823.75
2237+62.23	60.13' Lt.	837.66	834.41	832.20	825.97	827.46	823.75
2237+32.23	60.13' Lt.	837.81	834.56	832.35	825.93	827.44	823.75
2237+02.23	60.13' Lt.	837.96	834.71	832.50	827.07	827.41	823.91
2236+72.23	60.13' Lt.	838.11	834.86	832.65	826.36	827.39	823.89
2236+42.23	60.13' Lt.	838.22	834.97	832.76	826.72	827.36	823.86
2236+12.23	60.13' Lt.	838.28	835.03	832.82	826.35	827.34	823.84
2235+82.23	60.13' Lt.	838.27	835.02	832.81	825.81	827.32	823.82
2235+52.23	60.13' Lt.	838.21	834.96	832.75	825.62	827.29	823.79
2235+22.23	60.13' Lt.	838.08	834.83	832.62	825.35	827.27	823.77
2234+92.23	60.13' Lt.	837.93	834.68	832.47	824.83	827.24	823.74
2234+62.23	60.13' Lt.	837.78	834.53	832.32	824.57	827.22	823.72
2234+32.23	60.13' Lt.	837.63	834.38	832.17	824.52	827.20	823.70
2234+02.23	60.13' Lt.	837.48	834.23	832.02	824.60	827.17	823.67
2233+72.23	60.13' Lt.	837.33	834.08	831.87	824.80	827.15	823.65
2233+42.23	60.13' Lt.	837.18	833.93	831.72	825.17	827.12	823.62
2233+12.23	60.13' Lt.	837.03	833.78	831.57	826.07	827.10	823.60
2232+82.23	60.13' Lt.	836.88	833.63	831.42	826.64	827.08	823.58
2232+52.23	60.13' Lt.	836.73	833.48	831.27	827.09	827.05	823.55
2232+22.23	60.13' Lt.	836.58	833.33	831.12	827.54	827.03	823.53
2232+02.23	60.13' Lt.	836.50	833.25	831.04	827.85	827.01	823.51
2231+82.23	60.13' Lt.	836.44	833.19	830.98	827.90	826.82	823.32
2231+62.23	60.13' Lt.	836.41	833.16	830.95	827.93	826.60	823.10
2231+32.23	60.13' Lt.	836.42	833.17	830.96	828.19	826.63	823.13
2231+02.23	60.13' Lt.	836.48	833.23	831.02	828.30	826.91	823.41
2230+72.23	60.13' Lt.	836.61	833.36	831.15	827.06	826.91	823.41
2230+42.23	60.13' Lt.	836.76	833.51	831.30	825.13	826.88	823.38
2230+22.23	60.13' Lt.	836.86	833.61	831.40	825.26	826.87	823.37
2230+02.23	60.13' Lt.	836.96	833.71	831.50	826.05	826.85	823.35
2229+82.23	60.13' Lt.	837.06	833.81	831.60	826.84	826.84	823.34
2229+52.23	60.13' Lt.	837.21	833.96	831.75	826.89	826.81	823.31
2229+22.29	60.11' Lt.	837.36	834.11	831.90	826.83	826.79	823.29
2228+92.51	60.05' Lt.	837.51	834.26	832.05	826.26	826.76	823.26
2228+62.74	59.98' Lt.	837.66	834.41	832.20	825.65	826.74	823.24
2228+42.98	62.19' Lt.	837.95	834.70	832.50	824.65	826.48	822.98
2228+13.24	62.48' Lt.	838.14	834.89	832.69	823.65	825.43	821.93
2228+08.01	62.54' Lt.	838.17	834.92	832.71	825.17	825.25	821.75
2227+98.69	0.12' Lt.	-	827.90	826.15	824.82	829.51	821.32

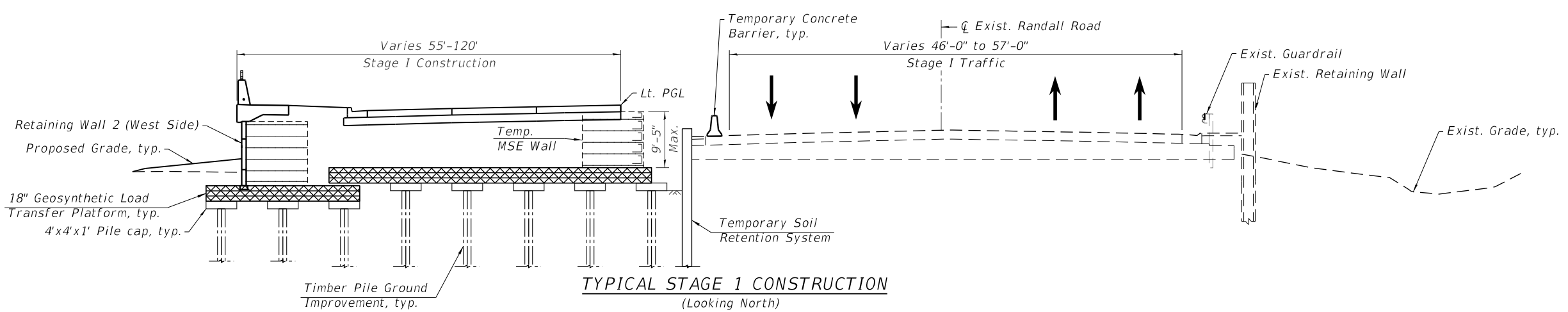
TABLE 1 - WALL ELEVATIONS (CONTINUED)

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
2227+81.09	71.14' Rt.	841.16	835.16	832.95	823.73	825.05	821.55
2228+17.88	71.14' Rt.	840.97	834.97	832.76	823.87	825.07	821.57
2228+45.27	70.12' Rt.	840.73	834.73	832.52	824.08	825.08	821.58
2228+75.54	70.18' Rt.	840.57	834.57	832.37	824.03	825.09	821.59
2229+05.81	70.24' Rt.	840.42	834.42	832.21	823.80	825.40	821.90
2229+30.15	70.29' Rt.	840.30	834.30	832.09	824.04	826.67	823.17
2229+60.15	70.29' Rt.	840.15	834.15	831.94	824.18	827.75	824.25
2229+90.15	70.29' Rt.	840.00	834.00	831.79	823.86	827.90	824.40
2230+20.15	70.29' Rt.	839.85	833.85	831.64	823.72	827.85	824.35
2230+50.15	70.29' Rt.	839.70	833.70	831.49	824.05	827.70	822.69
2230+80.15	70.29' Rt.	839.55	833.55	831.34	824.11	827.66	821.03
2231+10.15	70.29' Rt.	839.44	833.44	831.23	824.16	828.86	821.03
2231+40.15	70.29' Rt.	839.39	833.39	831.18	824.41	827.71	821.03
2231+70.15	70.29' Rt.	839.40	833.40	831.19	824.59	827.83	823.00
2232+00.15	70.29' Rt.	839.47	833.47	831.26	824.66	828.47	824.97
2232+30.15	70.29' Rt.	839.60	833.60	831.39	824.67	828.61	825.11
2232+60.15	70.29' Rt.	839.75	833.75	831.54	824.61	828.75	825.25
2232+90.15	70.29' Rt.	839.90	833.90	831.69	824.35	828.90	825.40
2233+20.15	70.29' Rt.	840.05	834.05	831.84	824.35	829.05	825.55
2233+50.15	70.29' Rt.	840.20	834.20	831.99	824.61	829.20	825.70
2233+80.15	70.29' Rt.	840.35	834.35	832.14	824.57	829.05	823.36
2234+10.15	70.29' Rt.	840.50	834.50	832.29	824.41	829.20	821.03
2234+40.15	70.29' Rt.	840.65	834.65	832.44	824.44	829.95	821.03
2234+70.15	70.29' Rt.	840.80	834.80	832.59	824.45	829.90	821.03
2235+00.15	70.29' Rt.	840.95	834.95	832.74	824.45	829.45	821.03
2235+30.15	70.29' Rt.	841.10	835.10	832.89	824.44	829.59	821.03
2235+60.15	70.29' Rt.	841.21	835.21	833.00	824.49	829.90	821.03
2235+90.15	70.29' Rt.	841.26	835.26	833.05	824.53	830.55	821.03
2236+20.15	70.29' Rt.	841.25	835.25	833.04	824.16	830.53	821.03
2236+50.15	70.29' Rt.	841.18	835.18	832.97	824.00	830.18	823.63
2236+80.15	70.29' Rt.	841.05	835.05	832.84	824.48	829.74	826.24
2237+10.15	70.29' Rt.	840.90	834.90	832.69	824.44	829.40	825.90
2237+40.15	70.29' Rt.	840.75	834.75	832.54	824.21	829.25	825.75
2237+70.15	70.29' Rt.	840.60	834.60	832.39	824.45	829.30	825.00
2238+00.15	70.29' Rt.	840.45	834.45	832.24	824.69	829.44	825.00
2238+30.15	70.29' Rt.	840.30	834.30	832.09	825.28	828.39	824.00
2238+60.15	70.29' Rt.	840.15	834.15	831.94	825.77	827.75	824.00
2238+90.15	70.29' Rt.	840.00	834.00	831.79	825.69	827.90	824.00
2239+20.15	70.29' Rt.	839.85	833.85	831.64	825.68	828.26	824.00
2239+50.15	70.29' Rt.	839.72	833.72	831.51	825.76	828.72	824.75
2239+71.50	70.29' Rt.	839.67	833.67	831.46	825.74	828.67	824.75
2239+99.83	71.71' Rt.	839.61	833.61	831.40	825.42	828.61	824.75
2240+27.83	73.11' Rt.	839.60	833.60	831.39	825.39	828.63	824.75
2240+55.83	74.51' Rt.	839.65	833.65	831.44	825.10	828.60	824.75
2240+83.83	75.91' Rt.	839.74	833.74	831.54	825.28	828.42	824.75
2241+11.83	77.31' Rt.	839.86	833.86	831.65	825.30	828.48	824.75
2241+41.83	78.81' Rt.	839.98	833.98	831.77	825.30	828.90	824.75
2241+67.83	80.11' Rt.	840.08	834.08	831.87	825.05	829.09	824.75
2241+91.50	81.29' Rt.	840.18	834.18	831.97	825.03	829.19	824.75
2242+21.50	81.29' Rt.	840.34	834.34	832.13	825.48	829.34	825.75
2242+51.50	81.29' Rt.	840.50	834.50	832.30	825.75	829.51	825.75
2242+81.50	81.29' Rt.	840.67	834.67	832.46	825.94	829.67	825.75
2243+11.50	81.29' Rt.	840.83	834.83	832.63	826.11	829.83	825.75
2243+41.50	81.29' Rt.	841.00	835.00	832.79	826.50	830.00	825.75
2243+66.89	81.29' Rt.	841.14	835.14	832.93	826.49	830.12	825.75
2243+66.89	81.29' Rt.	841.14	835.14	831.26	826.49	830.12	825.75
2243+83.88	84.08' Rt.	841.32	835.32	831.45	826.00	831.03	825.75
2244+00.68	86.85' Rt.	841.05	835.05	831.18	824.93	832.66	827.00
2244+16.43	94.61' Rt.	840.75	834.75	830.88	823.72	833.35	827.00
2244+28.13	97.95' Rt.	840.64	834.64	830.77	828.51	834.64	827.00

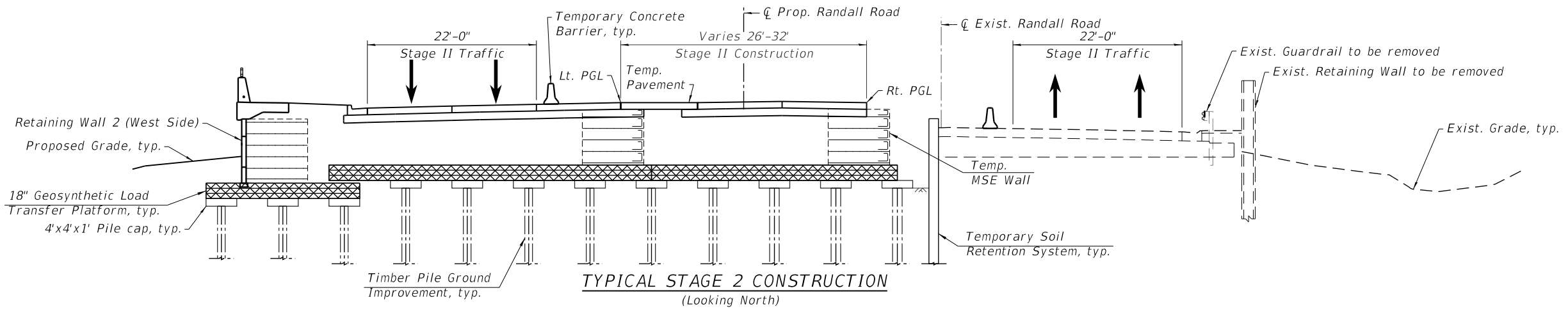
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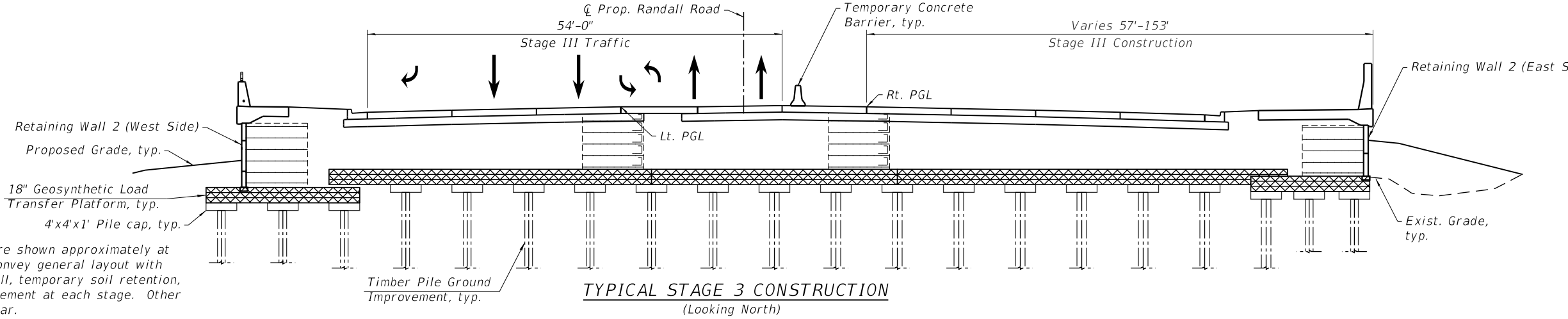
**TYPICAL EXISTING CROSS SECTION**  
 (Looking North)



**TYPICAL STAGE 1 CONSTRUCTION**  
 (Looking North)



**TYPICAL STAGE 2 CONSTRUCTION**  
 (Looking North)



**TYPICAL STAGE 3 CONSTRUCTION**  
 (Looking North)

Note:  
 Typical sections are shown approximately at Sta. 2243+00 to convey general layout with temporary MSE wall, temporary soil retention, and ground improvement at each stage. Other locations are similar.

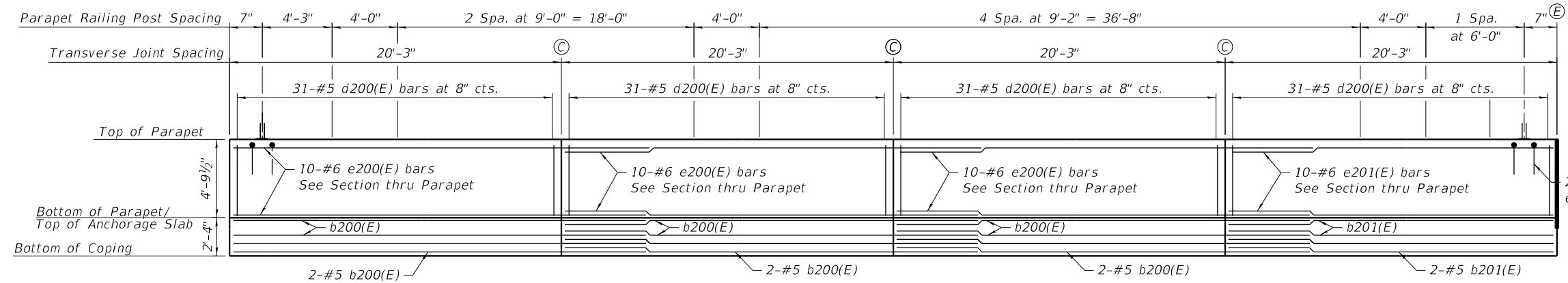
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DRAWN - TJJ	CHECKED - MDS	REVISED -
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PLOT DATE = 6/12/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

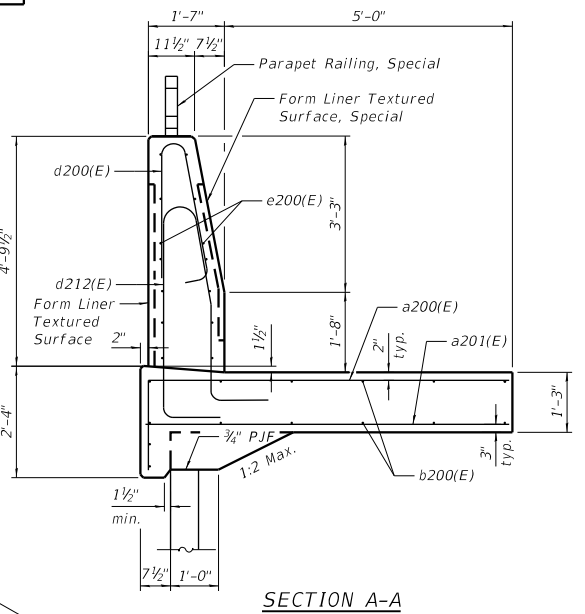
**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 056-W302**

SHEET 53-11 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	478
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

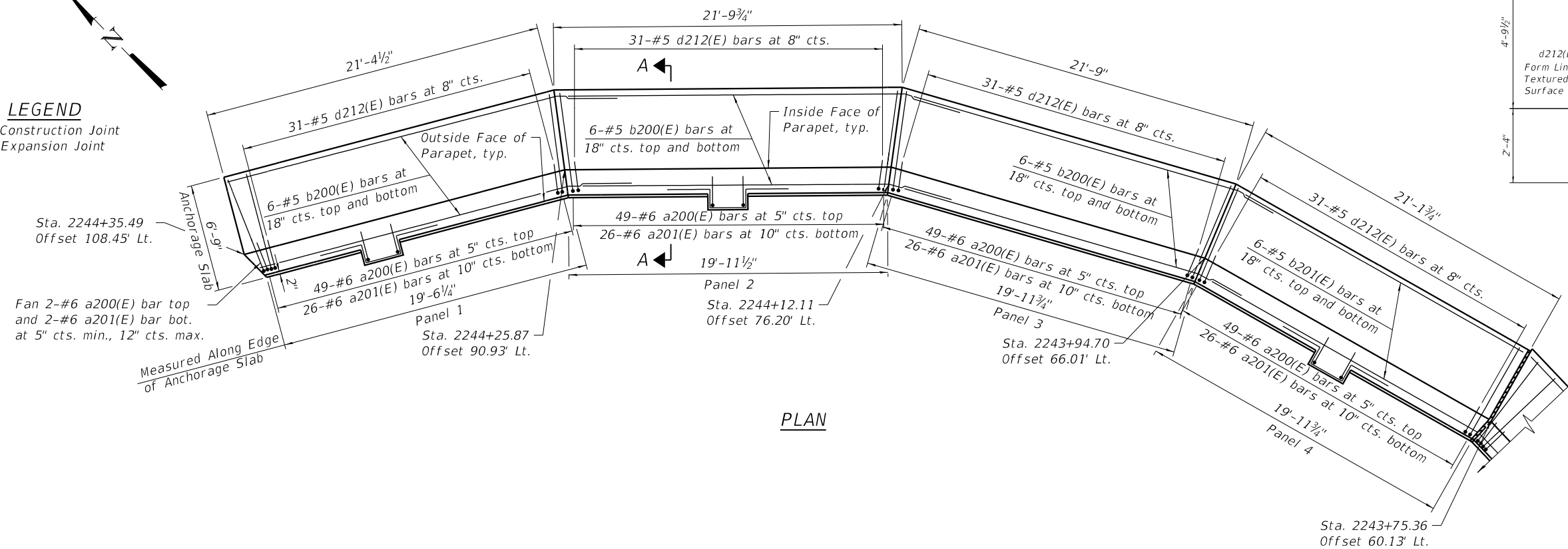


**ELEVATION**



**SECTION A-A**

**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint



**PLAN**

**NOTES:**

1. Stations and Offsets are along the inside face of parapet.
2. For Section thru Anchorage Slab, see Sheet S3-32.

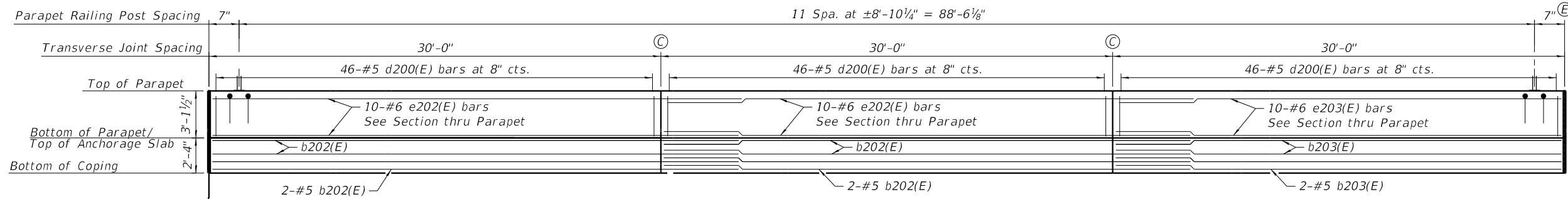
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SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

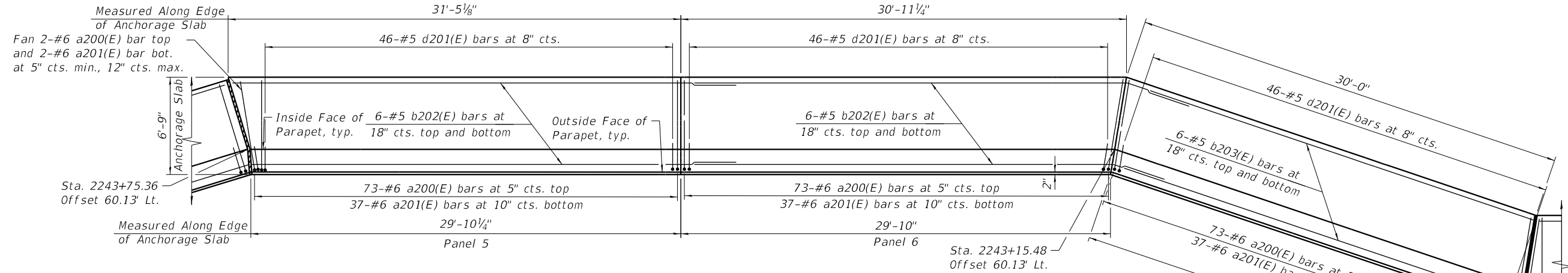
**ANCHORAGE SLAB PLAN AND ELEVATION 1  
 STRUCTURE NO. 056-W302**

SHEET 53-12 OF 53-67 SHEETS

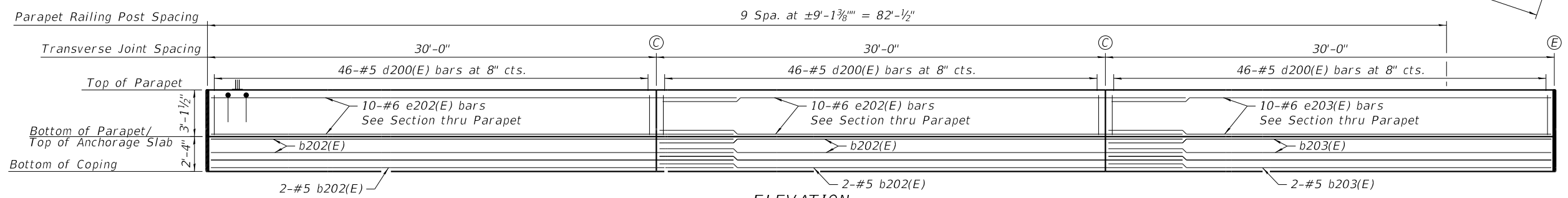
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	479
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	



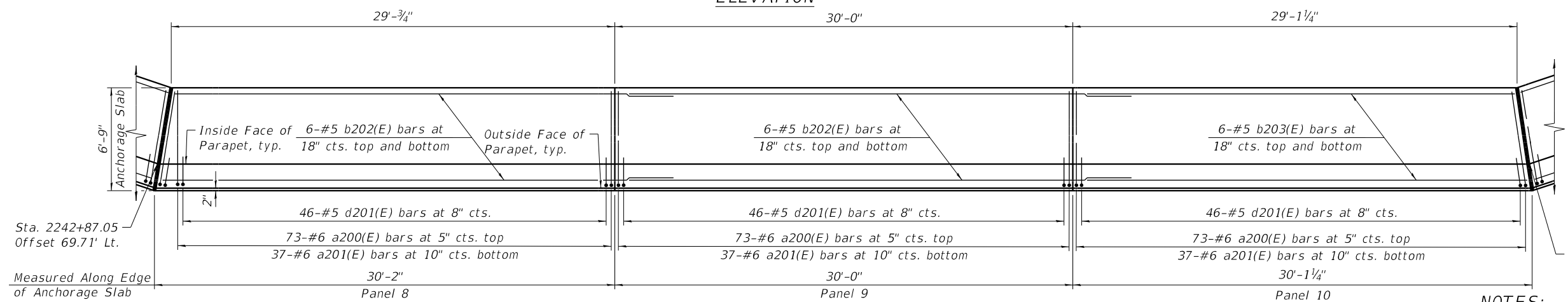
ELEVATION



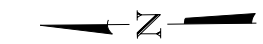
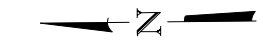
PLAN



ELEVATION



PLAN



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

**NOTES:**

1. Stations and Offsets are along the inside face of parapet.
2. For Section thru Anchorage Slab, see Sheet S3-32.

**TRANSYSTEMS**  
 1475 EAST WOODFIELD ROAD, SUITE 600  
 SCHAMBURG, ILLINOIS 60173  
 (847) 605-9600

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USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

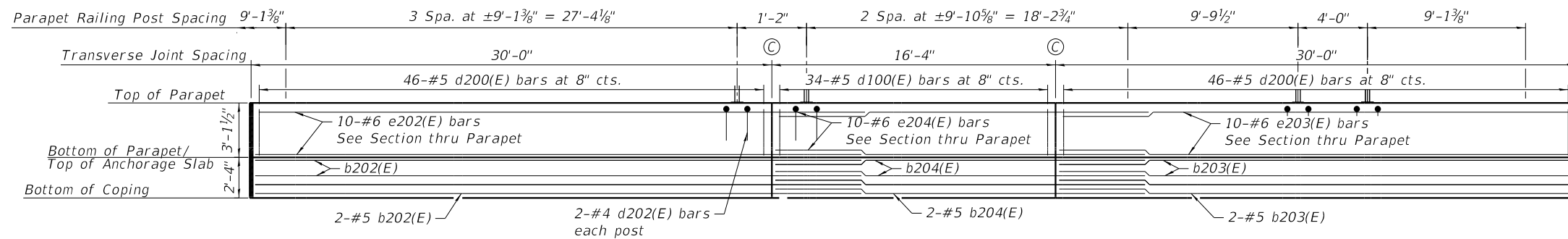
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 2  
 STRUCTURE NO. 056-W302**

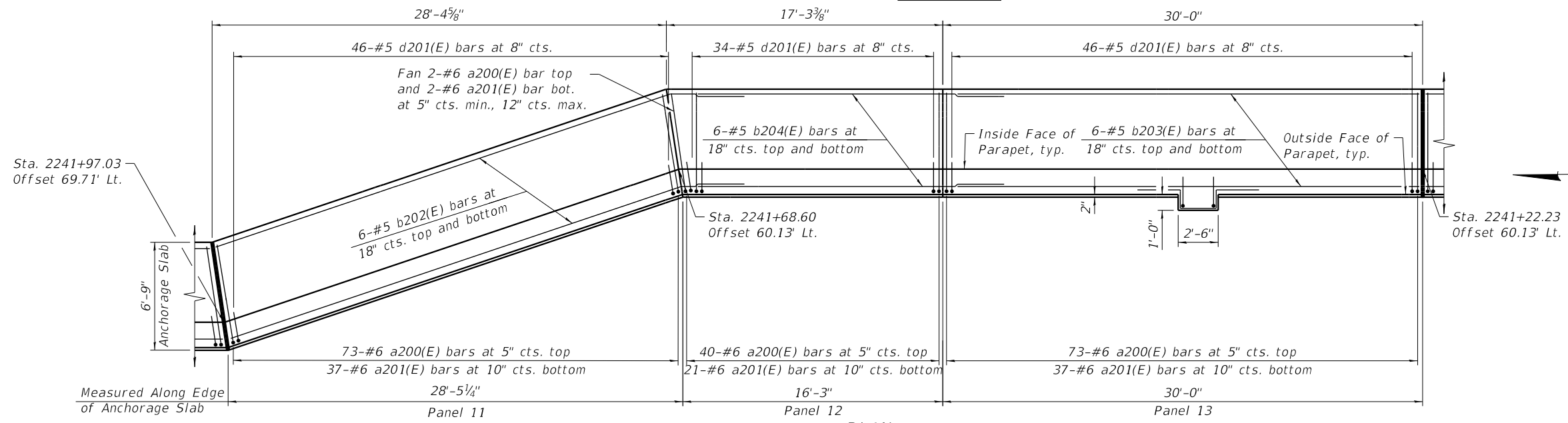
SHEET 53-13 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	480
			CONTRACT NO. 61J93	
		ILLINOIS	FED. AID PROJECT	

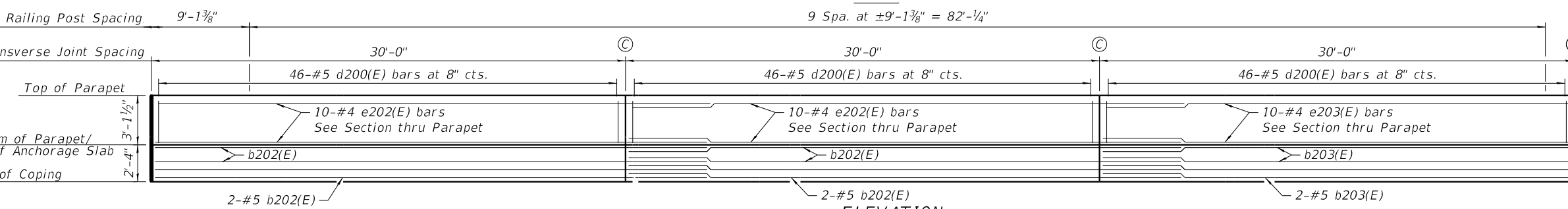
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 User: Mibeening  
 Date: 6/12/2024  
 Plot Scale: 8.0000' / in.  
 Plot Date: 6/12/2024



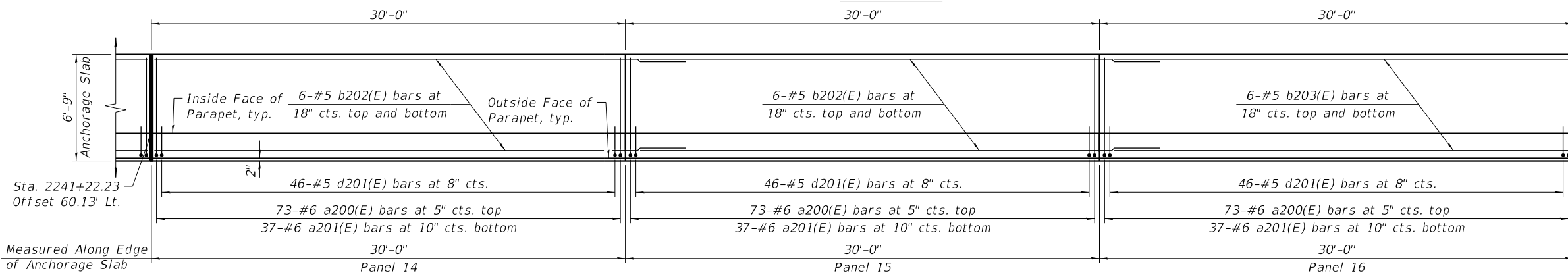
**ELEVATION**



**PLAN**



**ELEVATION**



**PLAN**

**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

**NOTES:**

- Stations and Offsets are along the inside face of parapet.
- For Section thru Anchorage Slab, see Sheet S3-32.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

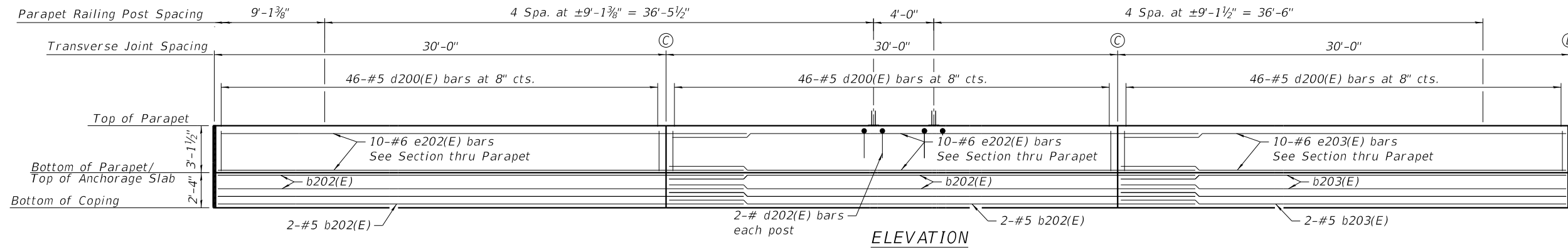
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 3  
 STRUCTURE NO. 056-W302**

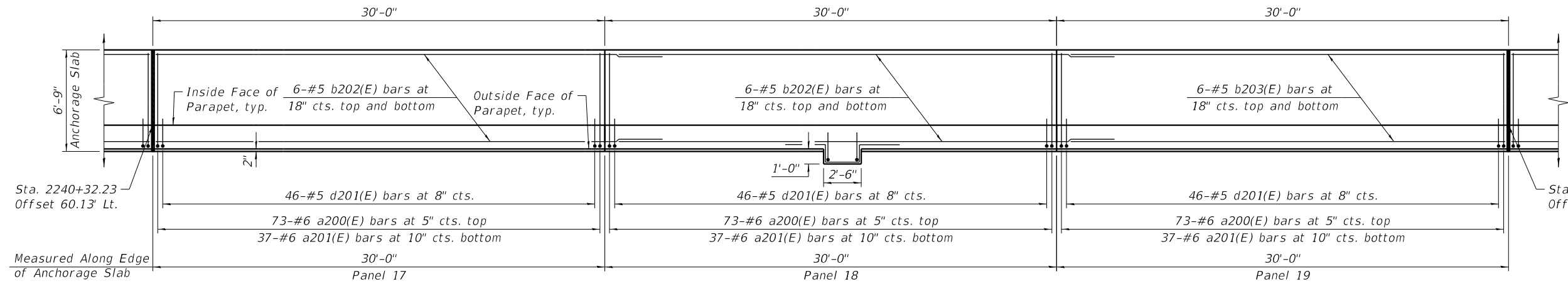
SHEET 53-14 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	481
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		

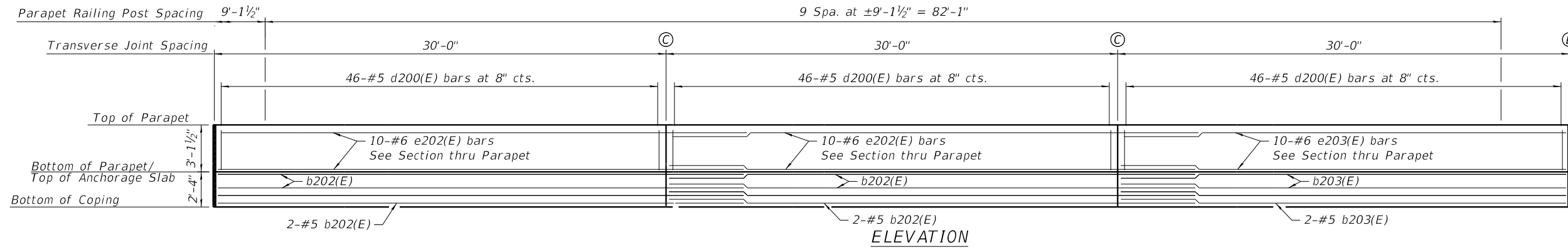
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 PROJECT: 06-00329-02-PW  
 SHEET: 735 OF 735



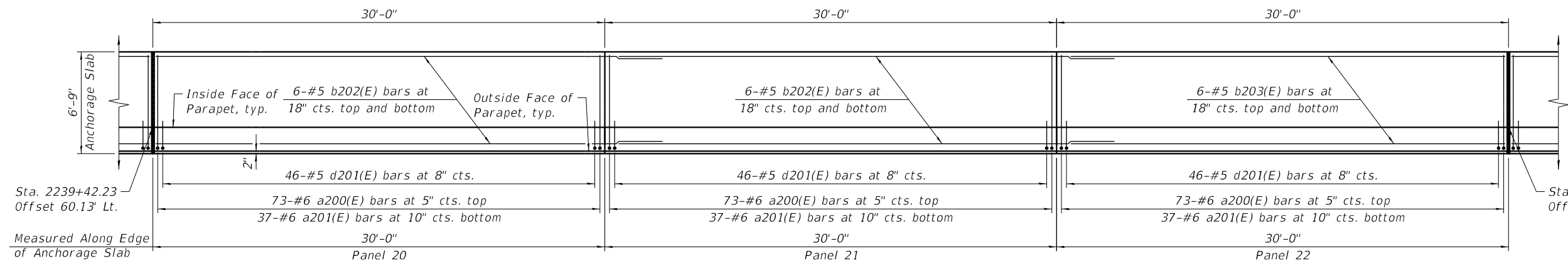
**ELEVATION**



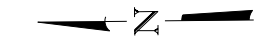
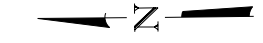
**PLAN**



**ELEVATION**



**PLAN**



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Anchorage Slab, see Sheet S3-32.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 4  
 STRUCTURE NO. 056-W302**

SHEET S3-15 OF S3-67 SHEETS

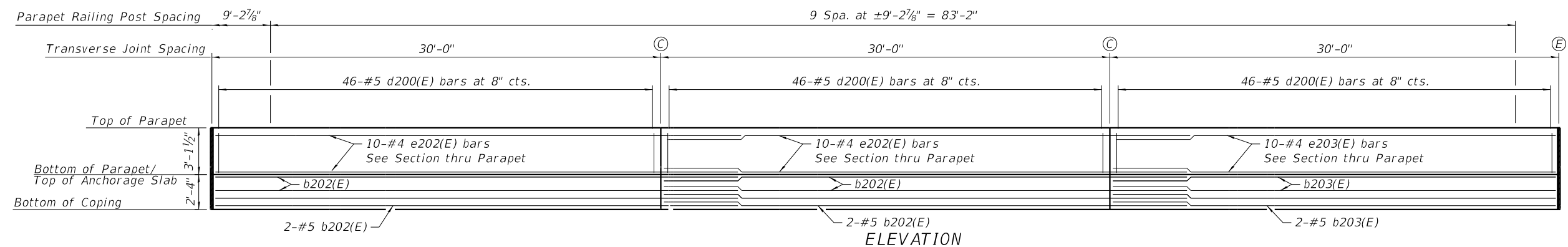
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	482
CONTRACT NO. 61193				
ILLINOIS / FED. AID PROJECT				



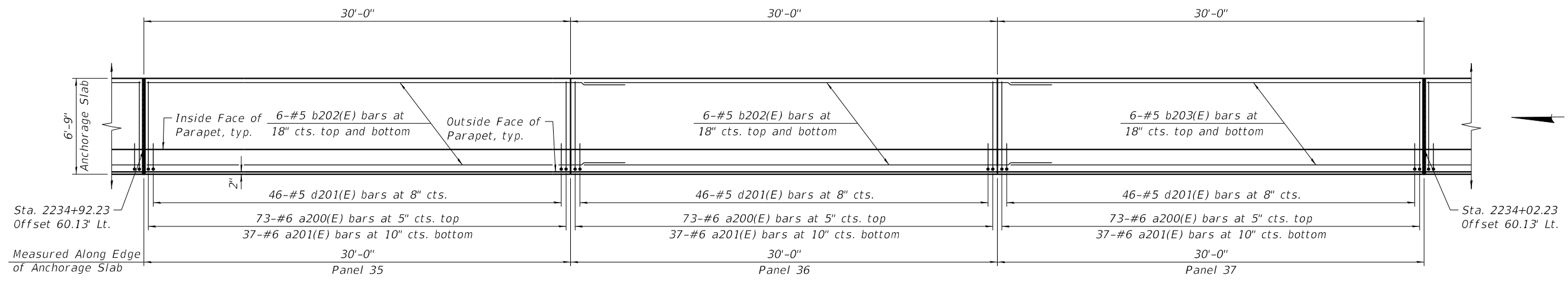




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 SHEET: 056-W302-01B-AnchorSlab.dwg  
 CONTRACT: 06-00329-02-PW  
 COUNTY: MCHENRY  
 DATE: 6/12/2024

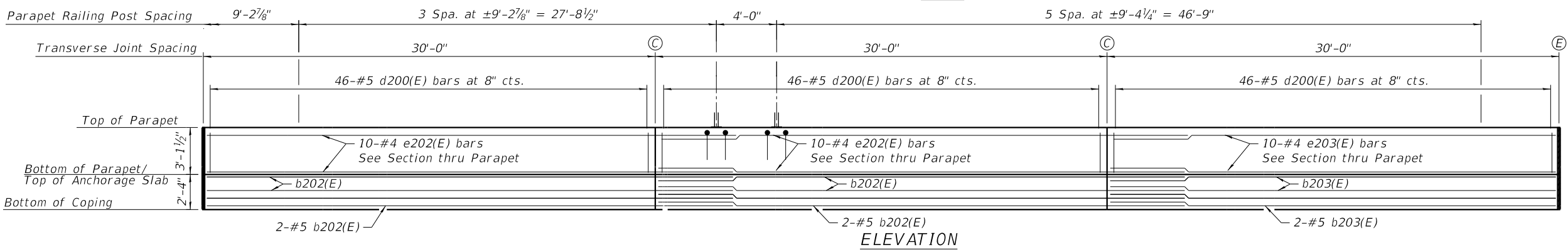


**ELEVATION**

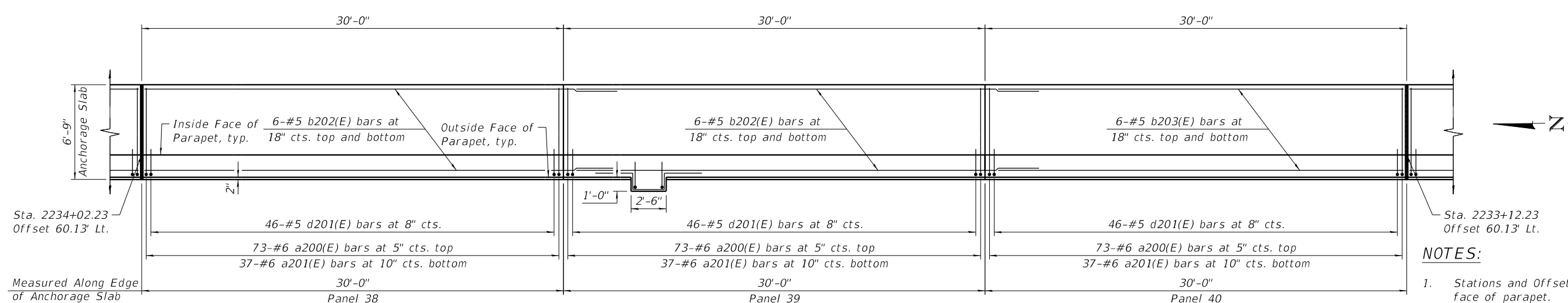


**PLAN**

**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint



**ELEVATION**



**PLAN**

**NOTES:**  
 1. Stations and Offsets are along the inside face of parapet.  
 2. For Section thru Anchorage Slab, see Sheet S3-32

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

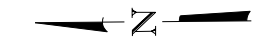
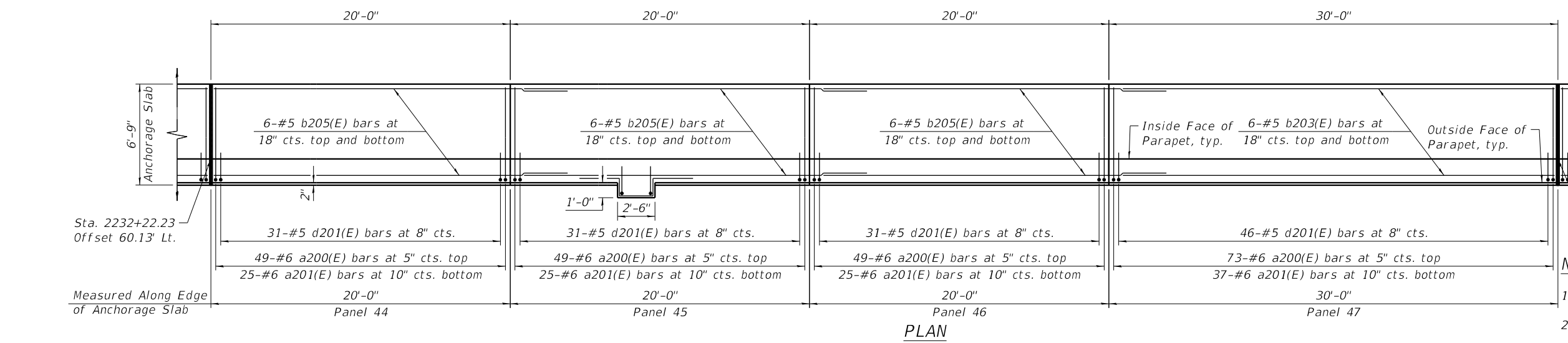
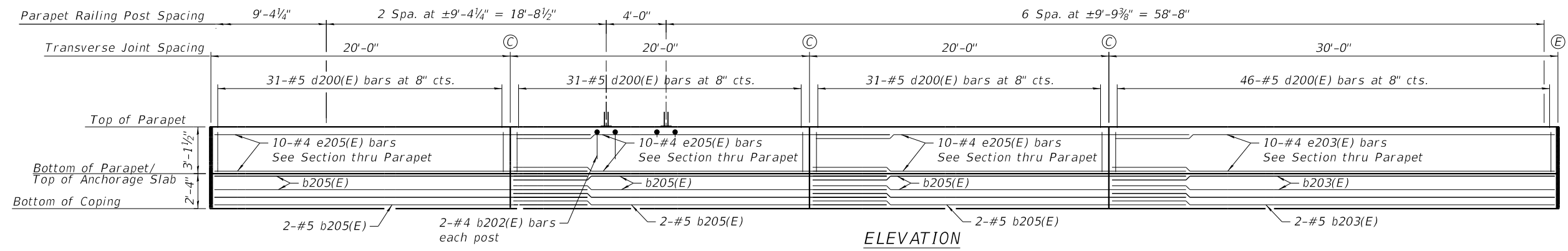
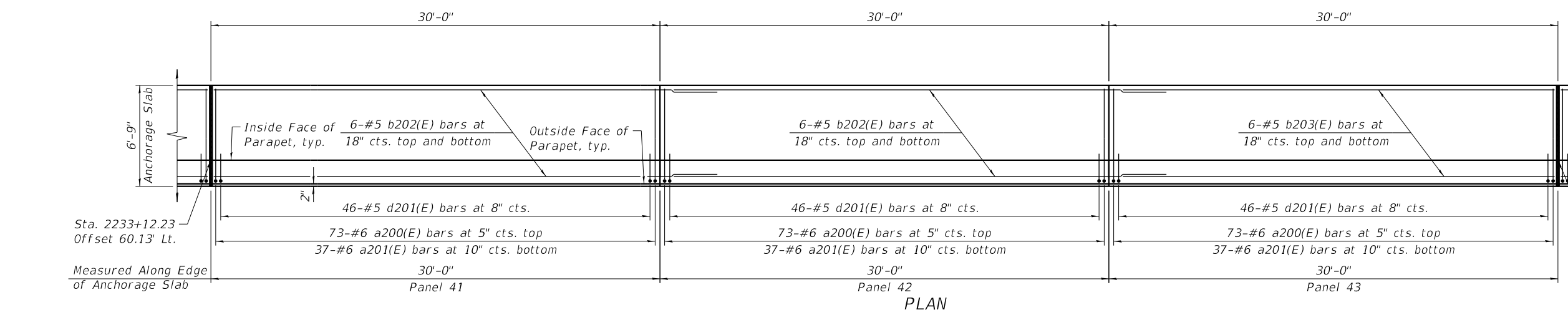
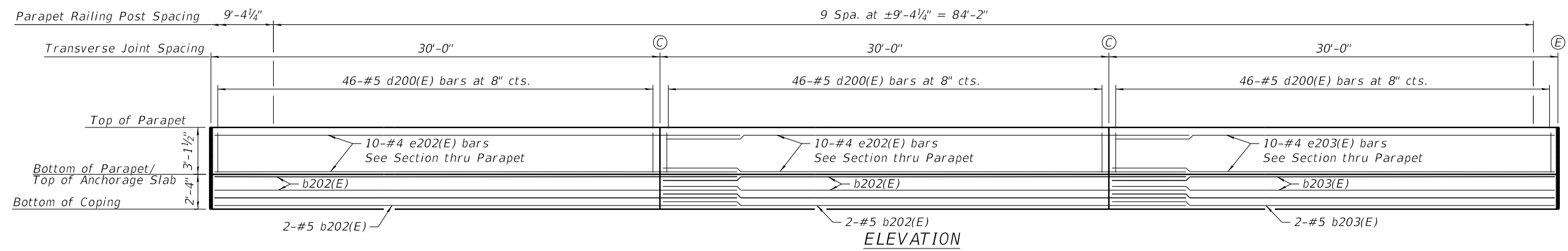
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 7  
 STRUCTURE NO. 056-W302**

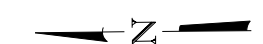
SHEET 53-18 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	485
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		

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**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint



- NOTES:**
1. Stations and Offsets are along the inside face of parapet.
  2. For Section thru Anchorage Slab, see Sheet S3-32

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

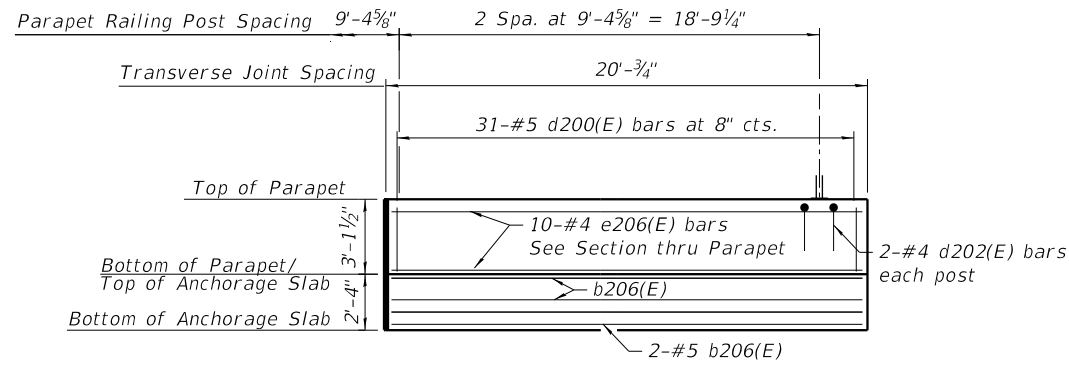
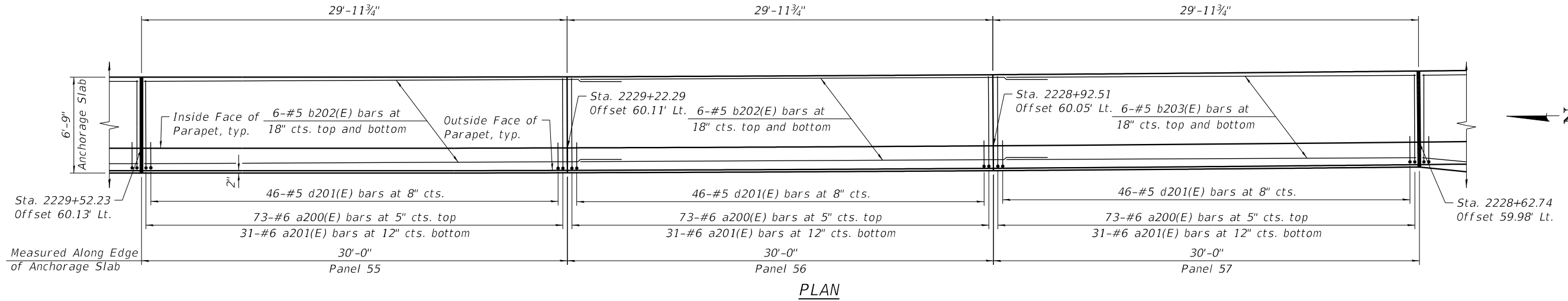
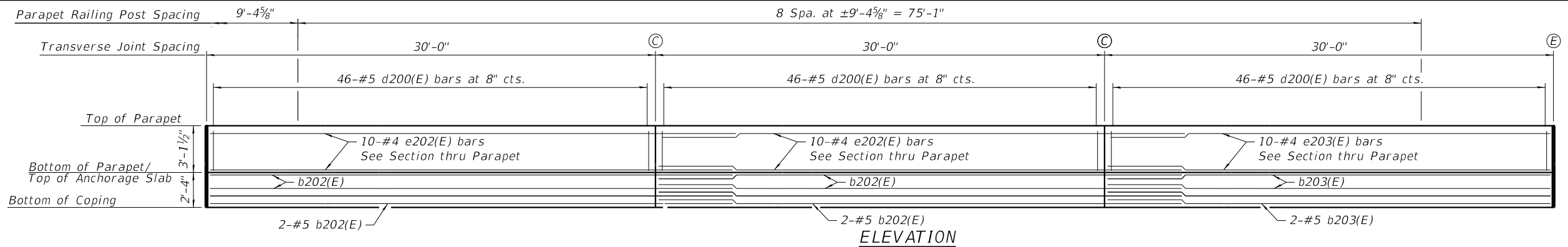
**ANCHORAGE SLAB PLAN AND ELEVATION 8  
 STRUCTURE NO. 056-W302**

SHEET 53-19 OF 53-67 SHEETS

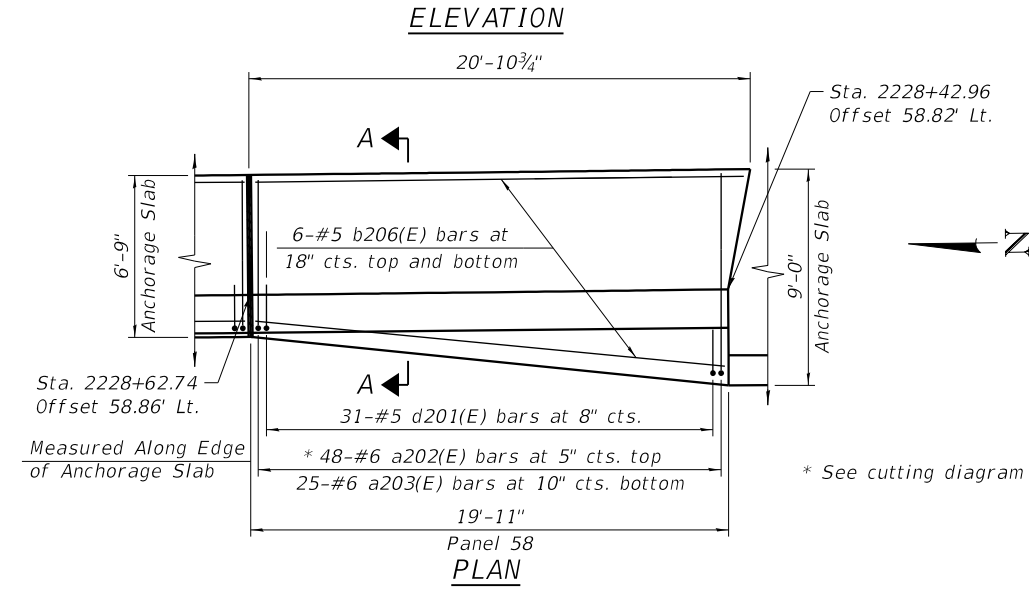
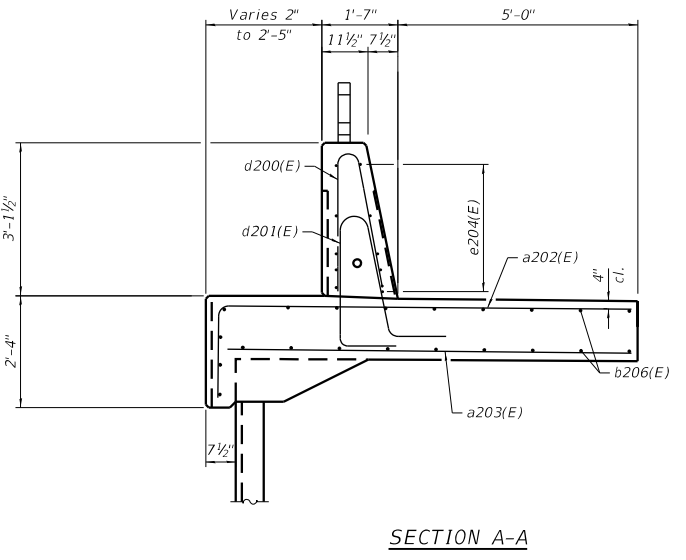
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	486
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		



FILE NAME: p:\projects\01-2024\transys\corp\pwa\1\Documents\Projects\CH401 - Chicago\04.0000\44.0000\44.0000\44.0000\Contract\_25\Sheet Files\23\_Structural\_Sheets\TSC\_Sheets\10-056-W302 - Wall\_2056W302-2-Wall\_2056W302-2-2021-AnchorageSlab10.dgn



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint



- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Anchorage Slab, see Sheet S3-32.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

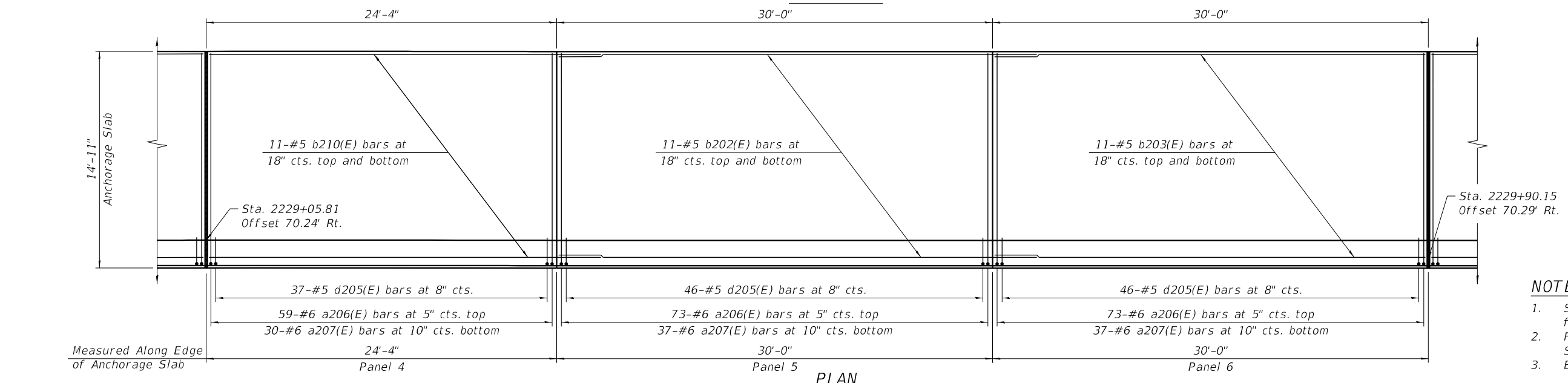
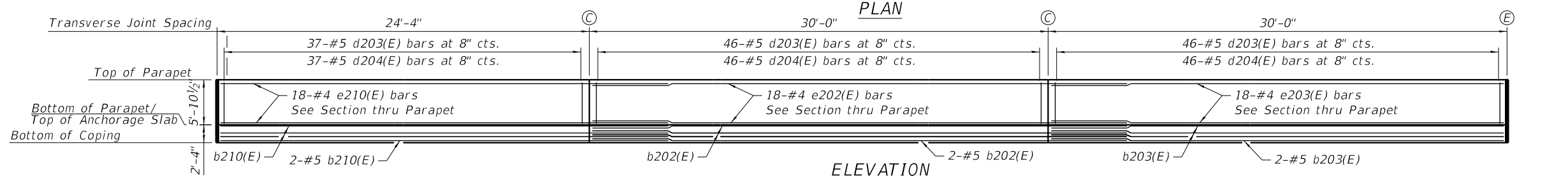
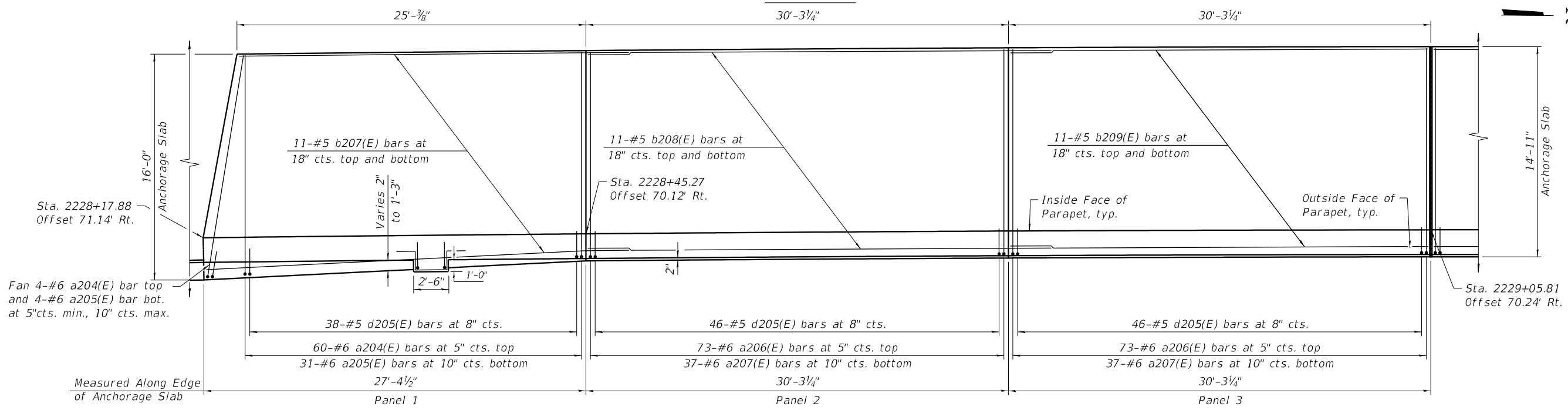
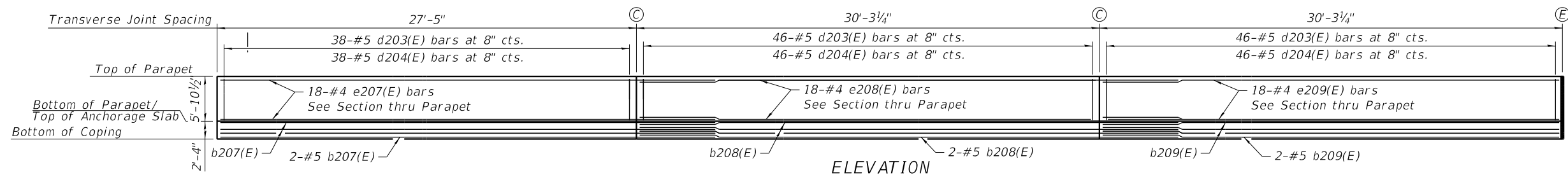
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 10  
 STRUCTURE NO. 056-W302**

SHEET S3-21 OF S3-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	488
CONTRACT NO. 61193				
		ILLINOIS	FED. AID PROJECT	

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**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Moment Slab, see Sheet S3-32.
  - Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

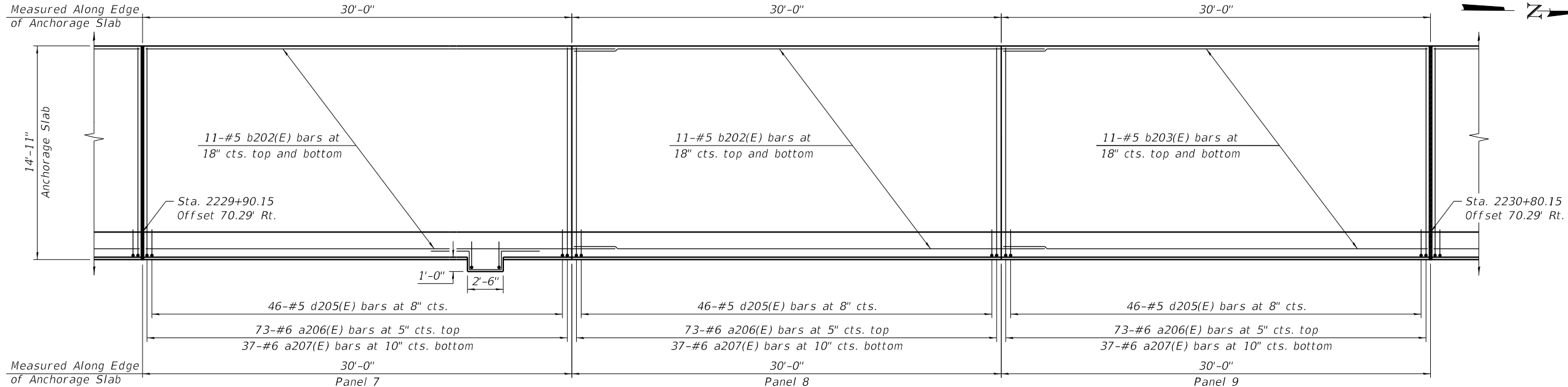
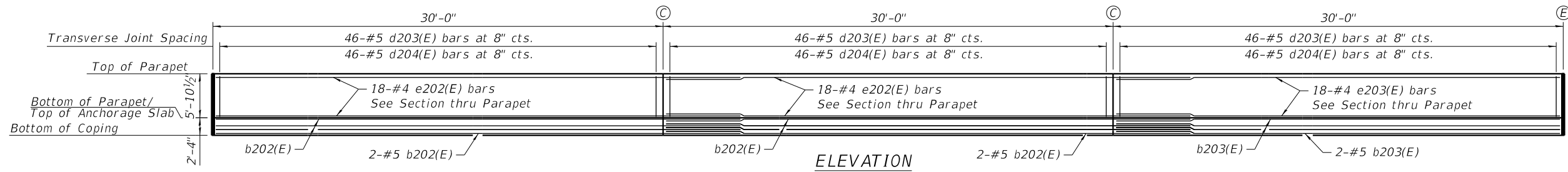
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 11  
 STRUCTURE NO. 056-W302**

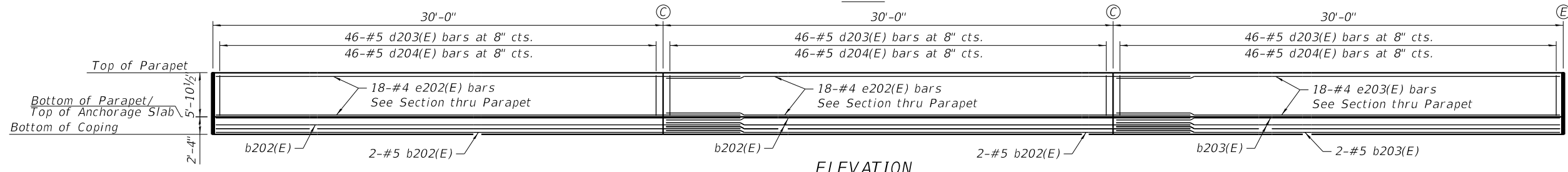
SHEET 53-22 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	489
CONTRACT NO. 61193				
ILLINOIS FED. AID PROJECT				

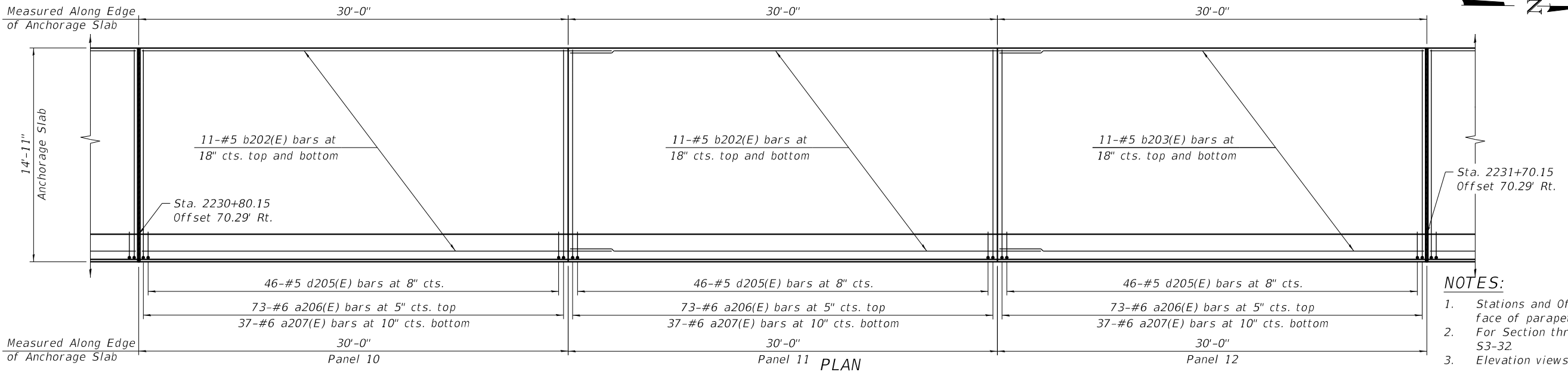
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**PLAN**



**ELEVATION**



**PLAN**

**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Moment Slab, see Sheet S3-32
  - Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	REVISOR -	
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

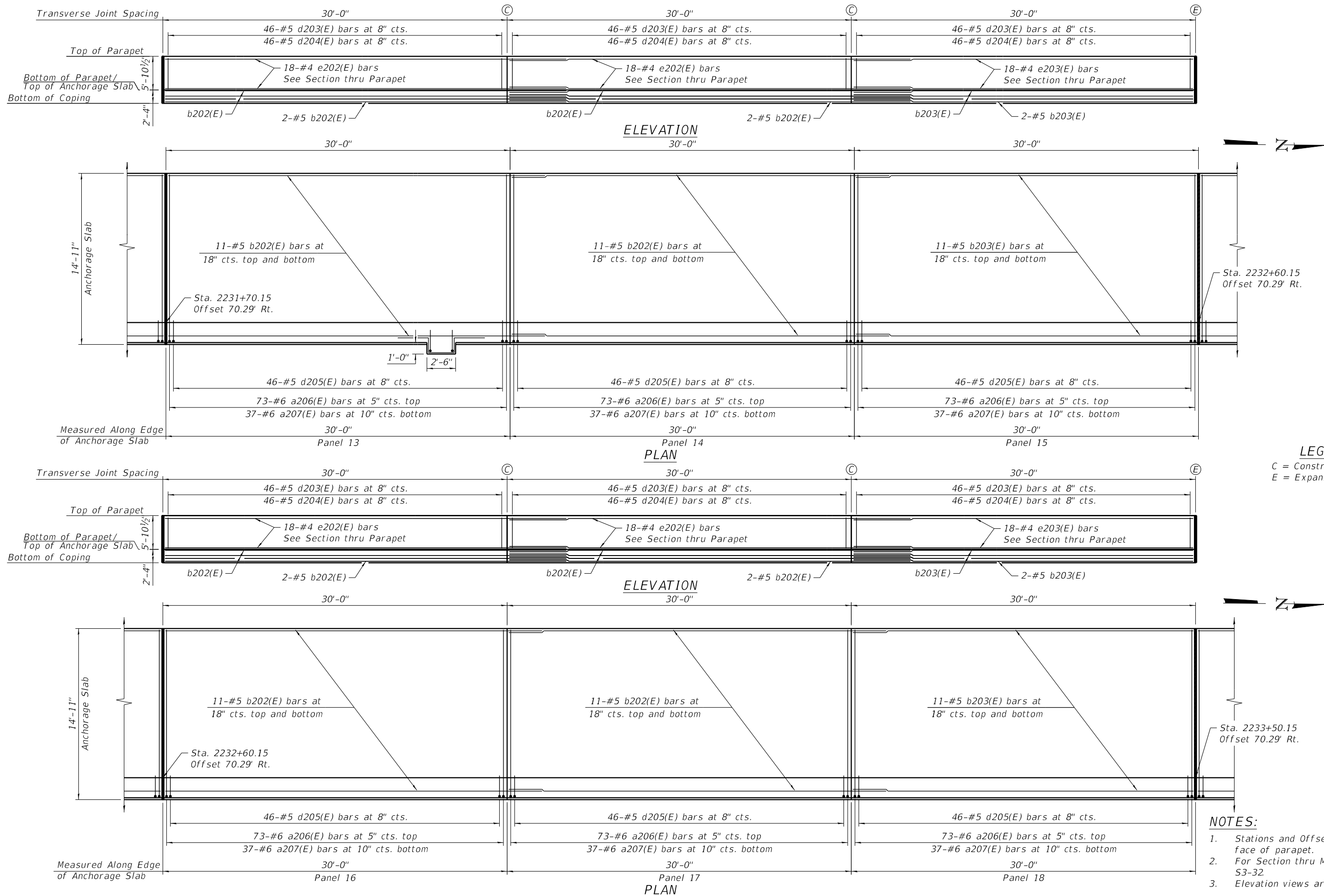
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 12  
 STRUCTURE NO. 056-W302**

SHEET 53-23 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	490
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	

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**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Moment Slab, see Sheet S3-32.
  - Elevation views are scaled 2H:1V.

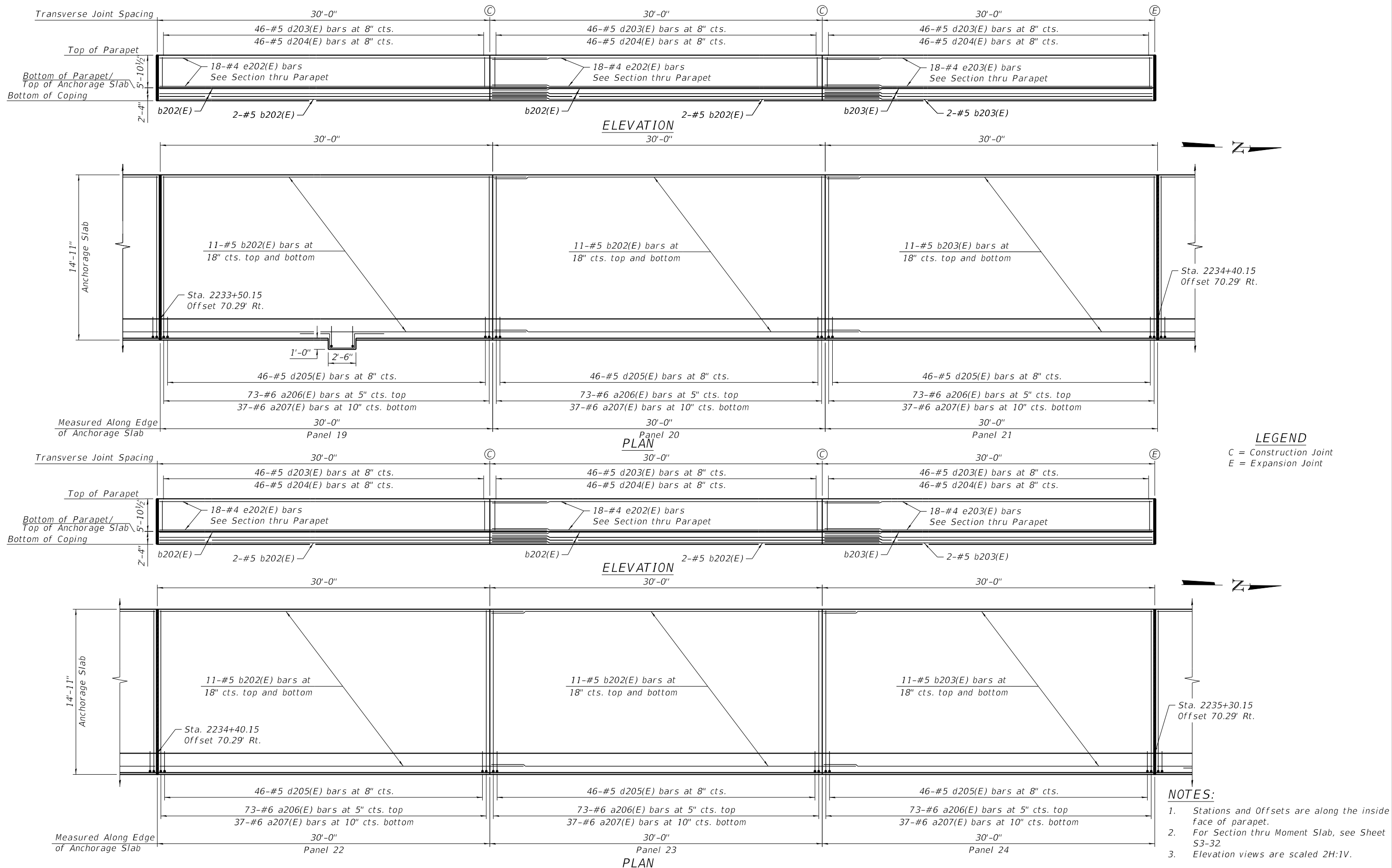
USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 13**  
**STRUCTURE NO. 056-W302**

SHEET 53-24 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	491
CONTRACT NO. 61193				
ILLINOIS FED. AID PROJECT				



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

**NOTES:**

1. Stations and Offsets are along the inside face of parapet.
2. For Section thru Moment Slab, see Sheet S3-32.
3. Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 14  
 STRUCTURE NO. 056-W302**

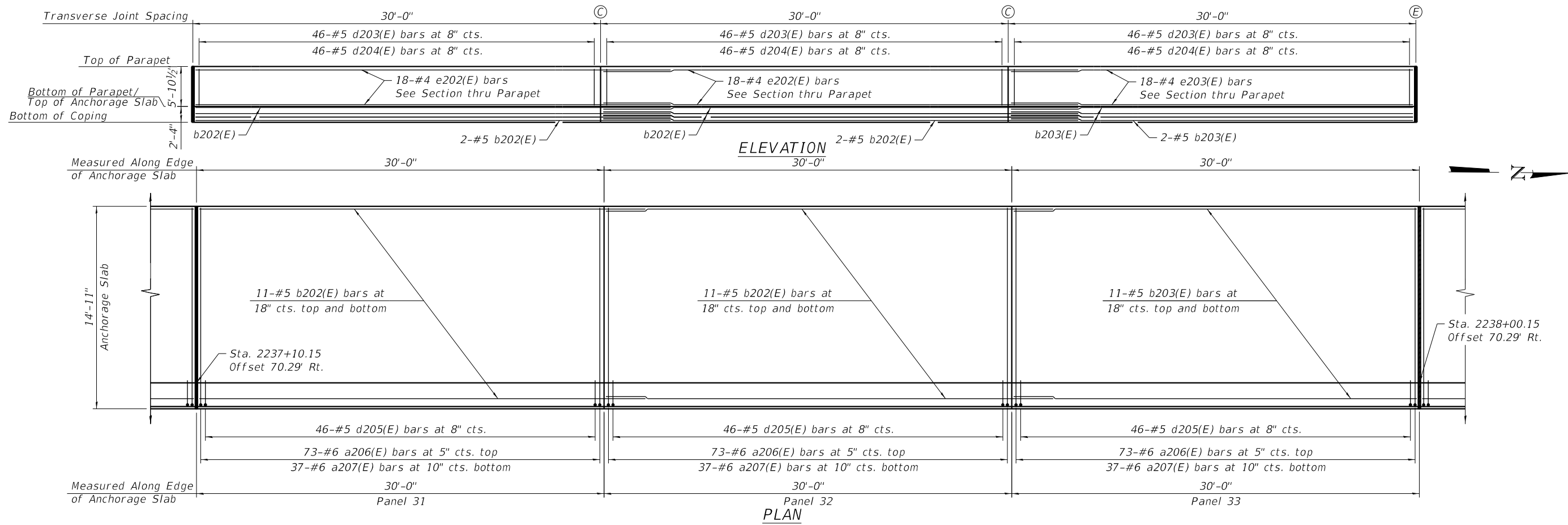
SHEET 53-25 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	492
CONTRACT NO. 61193				
ILLINOIS		FED. AID PROJECT		



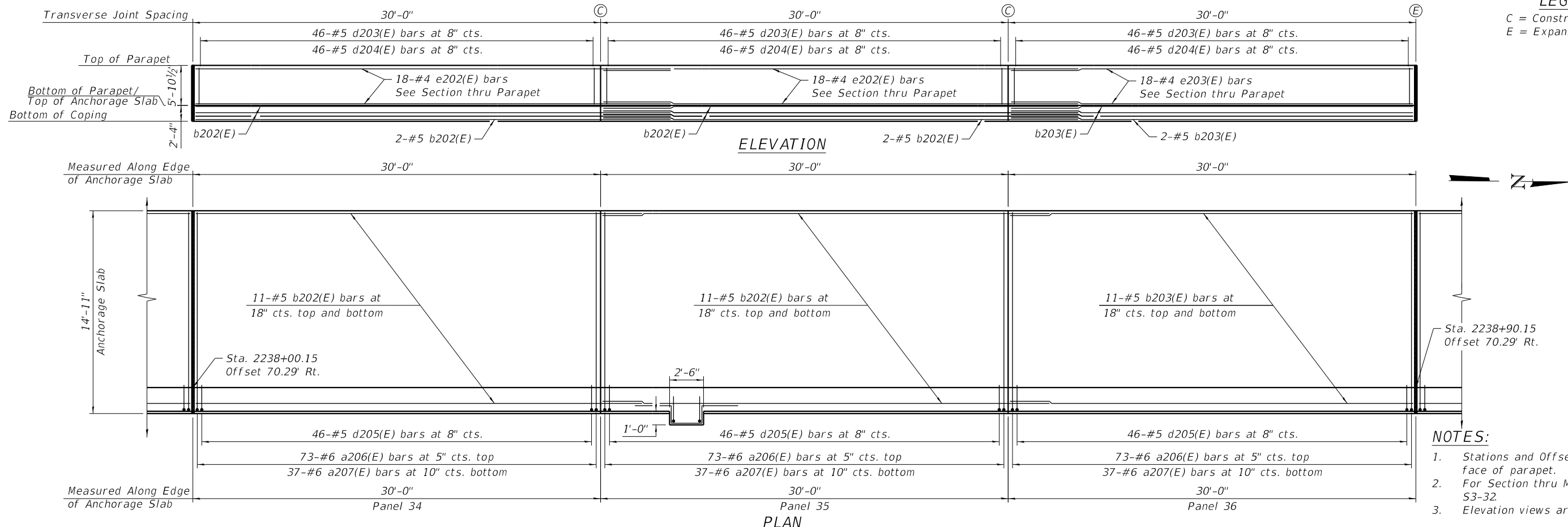


FILE NAME: p:\projects\01-act-transyscorp\comtransyscorp\paw1\documents\projects\ch401 - Chicago\p40113006\140.0000\44.0000\44.0000\Structural\_Sheets\TSC\_Sheets33\_Structural\_Sheets33.dwg - Wall 2.056W\02-62\03-023-AnchorageSlab16.dgn



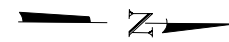
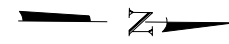
**ELEVATION**  
30'-0"

**PLAN**



**ELEVATION**  
30'-0"

**PLAN**



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
1. Stations and Offsets are along the inside face of parapet.
  2. For Section thru Moment Slab, see Sheet S3-32
  3. Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

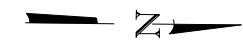
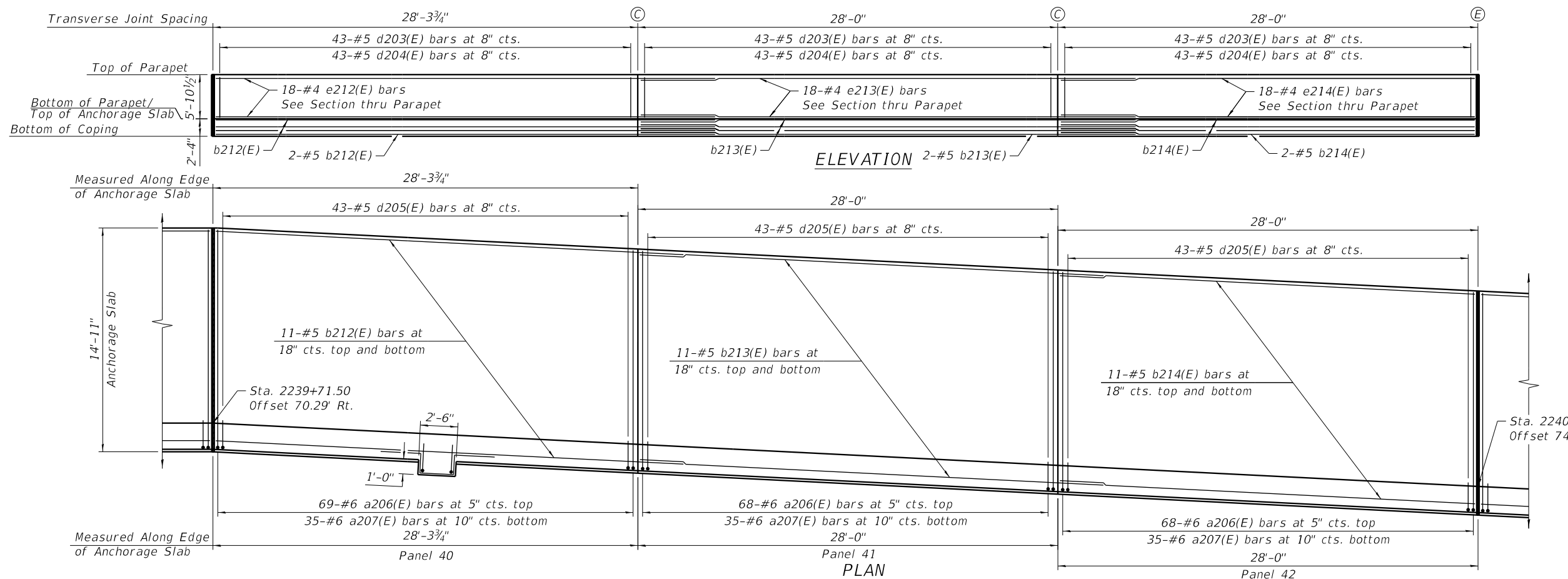
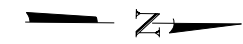
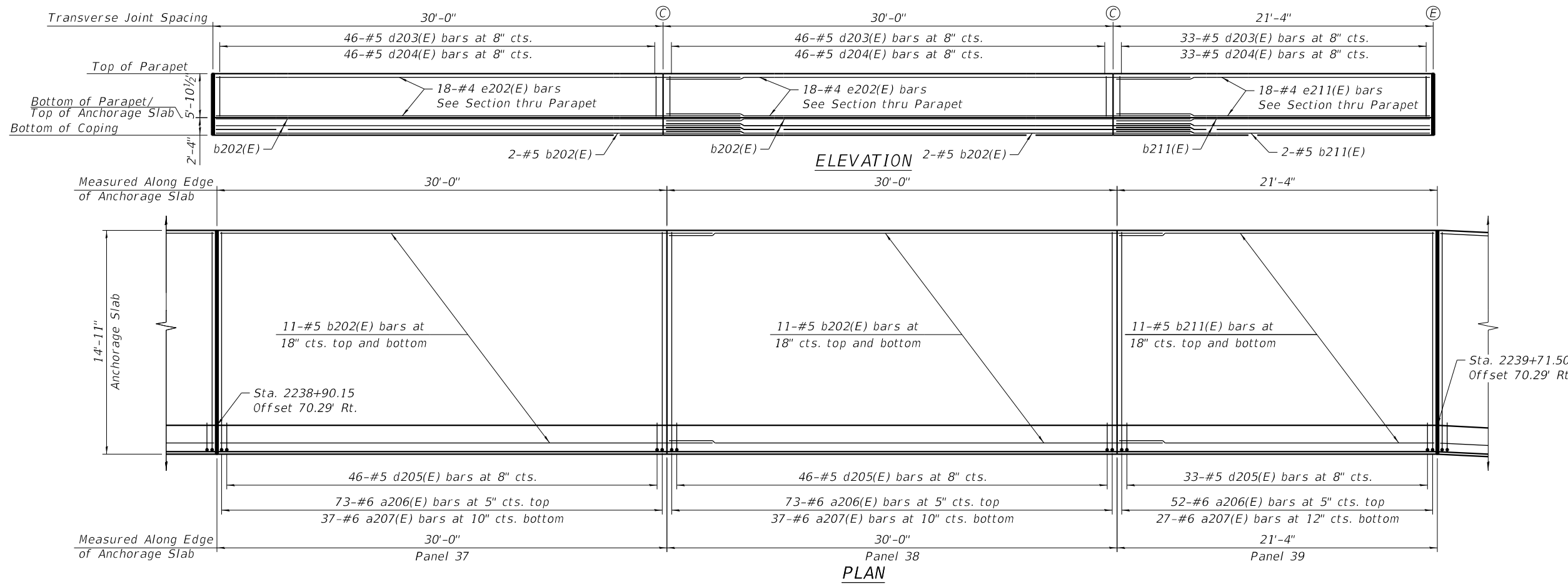
**ANCHORAGE SLAB PLAN AND ELEVATION 16  
 STRUCTURE NO. 056-W302**

SHEET 53-27 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	494
				CONTRACT NO. 61193

ILLINOIS FED. AID PROJECT

FILE NAME: p:\projects\01-act-transys\corp\documents\projects\ch401 - Chicago\p40113006\140.0000\44.0000\44.0000\Contract\_25\sheet\_files\33\_Structural\_Sheets\TSC\_Sheets\17.dgn



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Moment Slab, see Sheet S3-32
  - Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	REVISED -	
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

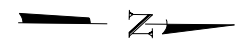
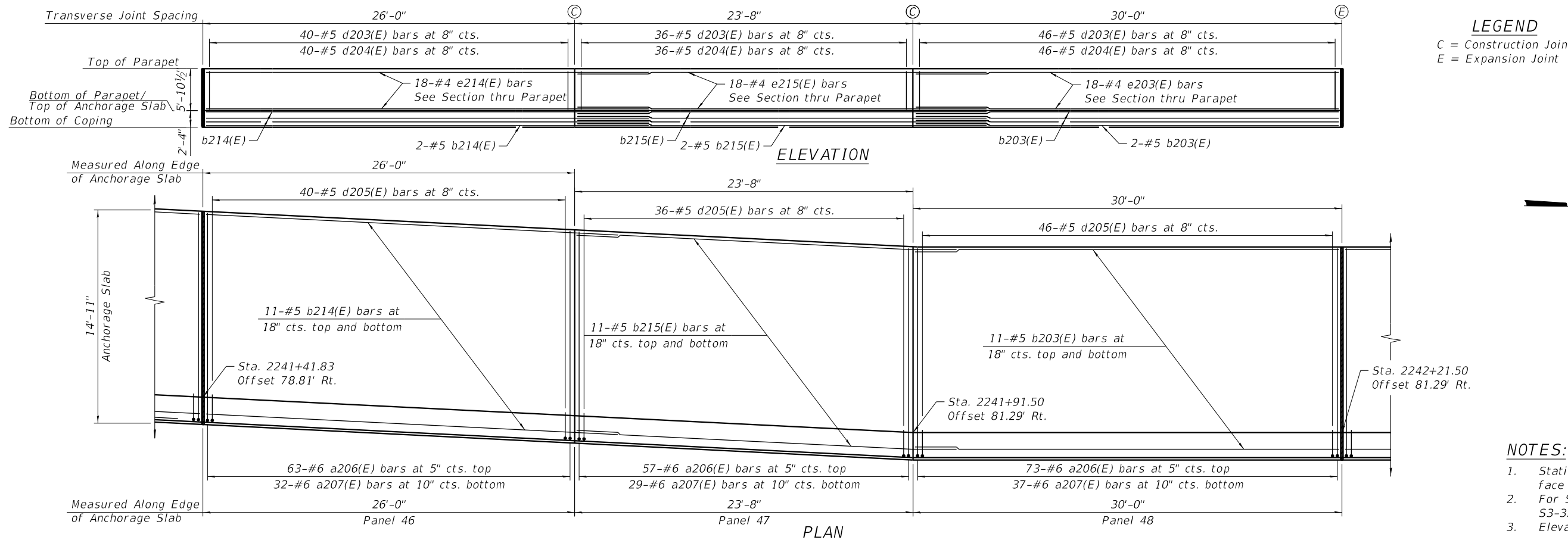
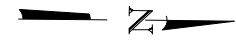
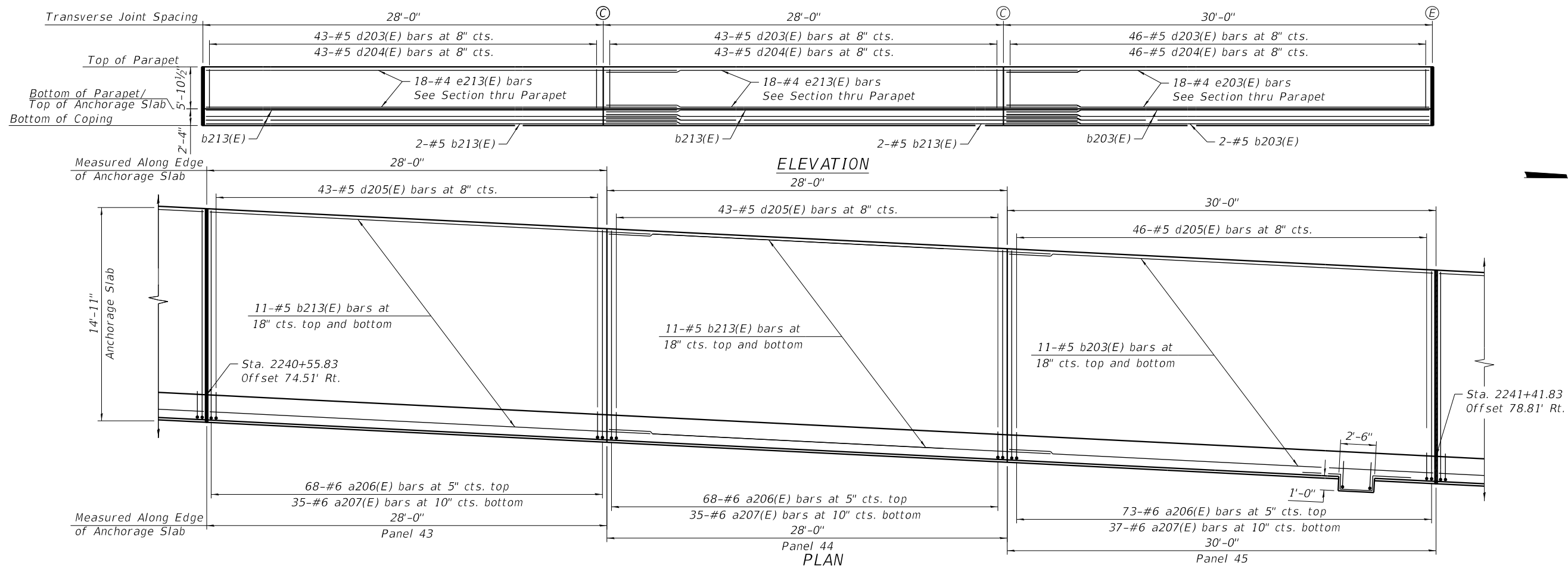
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 17  
 STRUCTURE NO. 056-W302**

SHEET 53-28 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	495
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61193	

FILE NAME: p:\projects\01-act-transyscorp\contract\documents\project\ch401 - Chicago\140.0000\44.0000\44.0000\44.0000\Contract\_25\Sheet Files\33\_Structural\_Sheets\TSC\_Sheet18.dgn



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
- Stations and Offsets are along the inside face of parapet.
  - For Section thru Moment Slab, see Sheet S3-32
  - Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

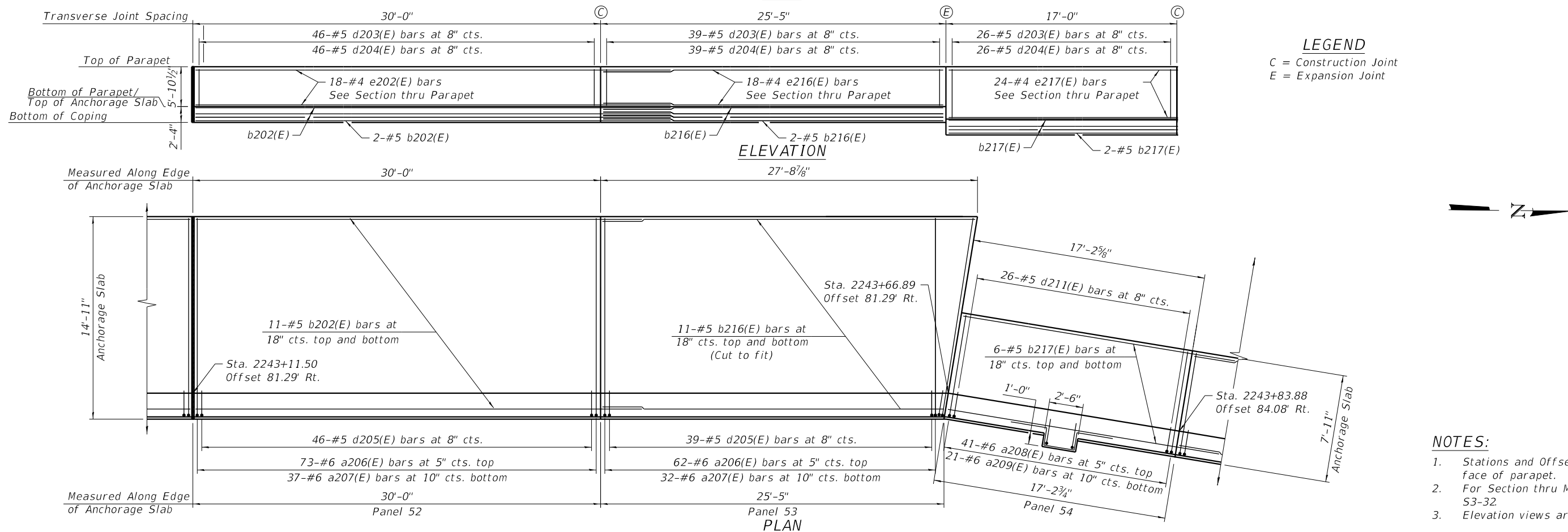
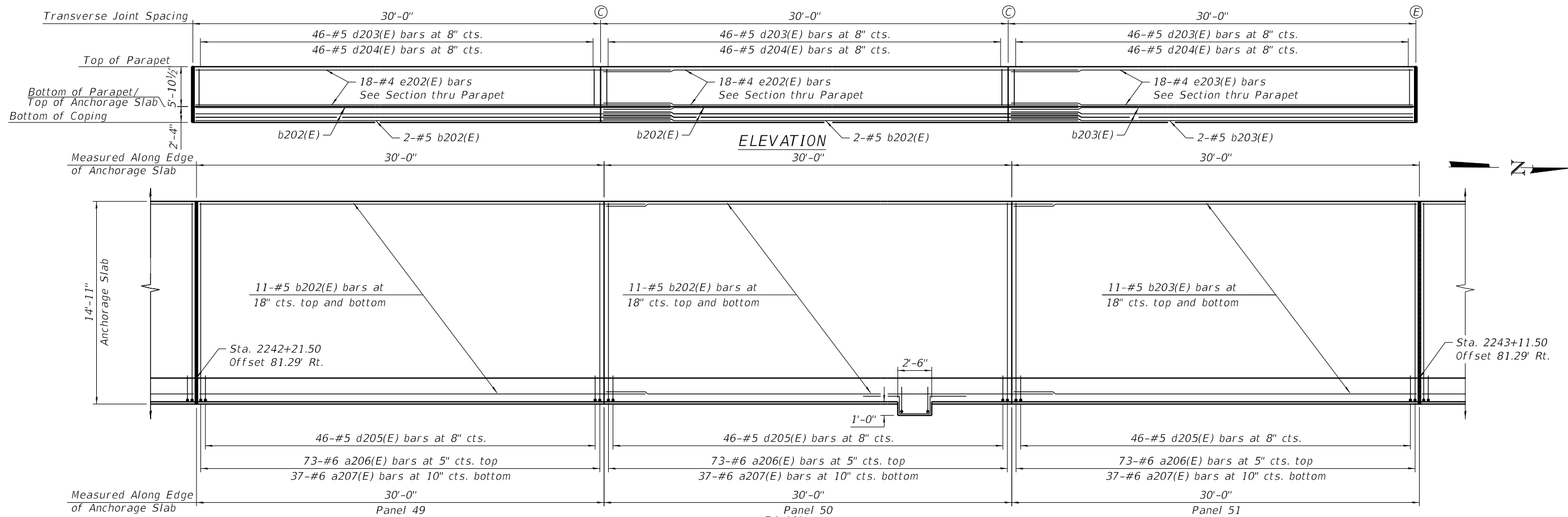
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 18  
 STRUCTURE NO. 056-W302**

SHEET 53-29 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	496
ILLINOIS			CONTRACT NO. 61193	
FED. AID PROJECT				

FILE NAME: p:\projects\01-act-transyscorp.com\transyscorp\paw\1\Documents\Projects\CH401 - Chicago\RA0113006\140,000\044,000\044,000\Contract\_25\Sheet Files\33\_Structural\_Sheets\TSC\_Sheet19.dgn



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint

- NOTES:**
1. Stations and Offsets are along the inside face of parapet.
  2. For Section thru Moment Slab, see Sheet S3-32.
  3. Elevation views are scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	REVISOR -	
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISOR -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISOR -

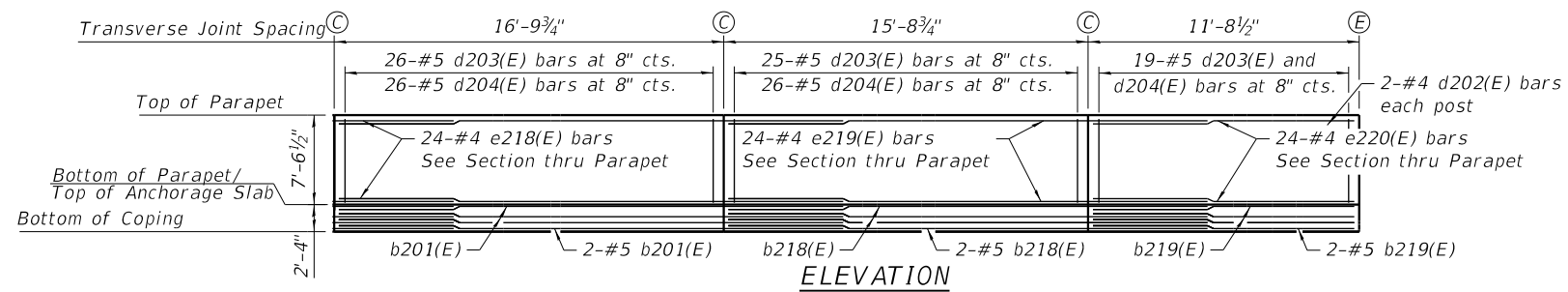
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 19  
 STRUCTURE NO. 056-W302**

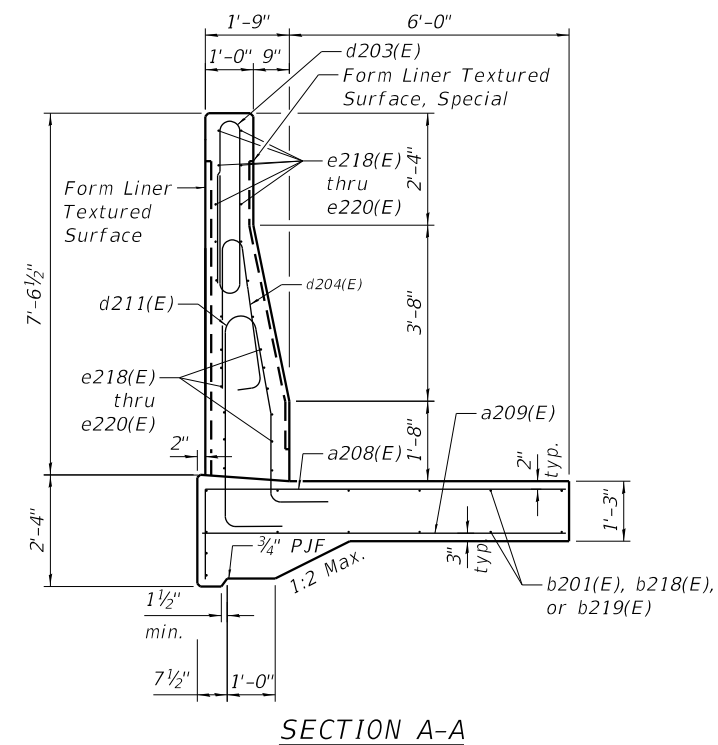
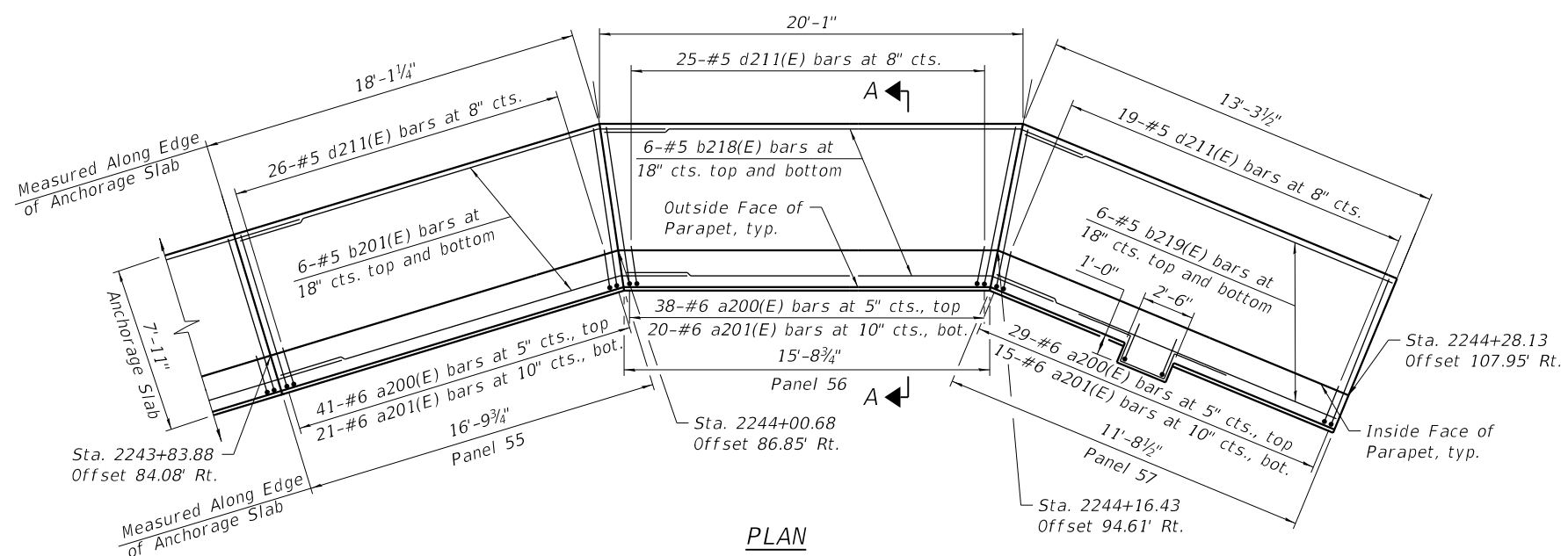
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	497
CONTRACT NO. 61193				

SHEET 53-30 OF 53-67 SHEETS

ILLINOIS FED. AID PROJECT



**LEGEND**  
 C = Construction Joint  
 E = Expansion Joint



**NOTES:**

1. Stations and Offsets are along the inside face of parapet.
2. For Section thru Moment Slab, see Sheet S3-32.
3. Elevation view is scaled 2H:1V.

USER NAME = Mibeening	DESIGNED - JE	REVISED -
SFN-DGN	DRAWN - JE	REVISED -
PLOT SCALE = 8.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

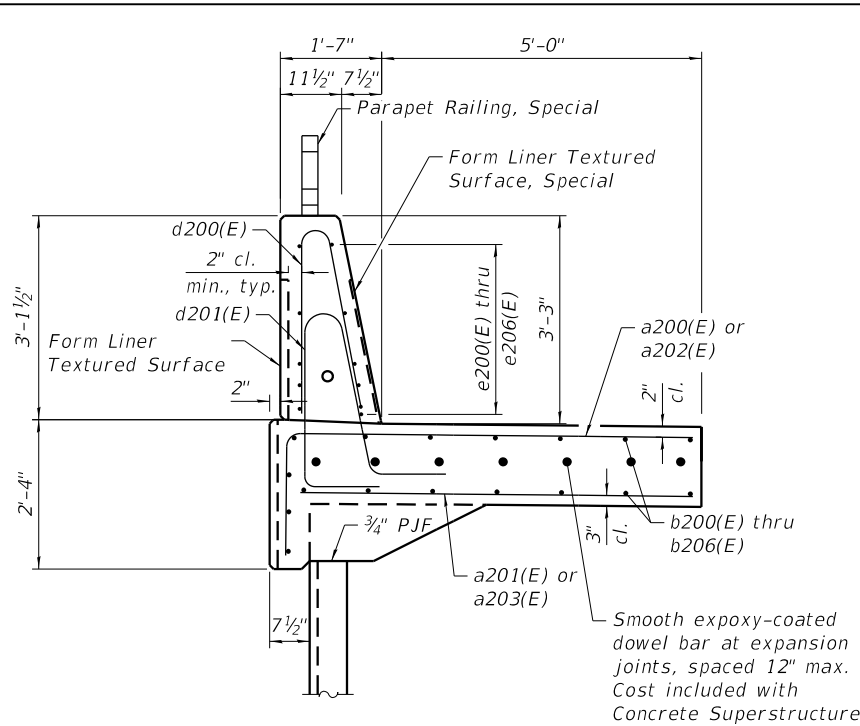
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION 20  
 STRUCTURE NO. 056-W302**

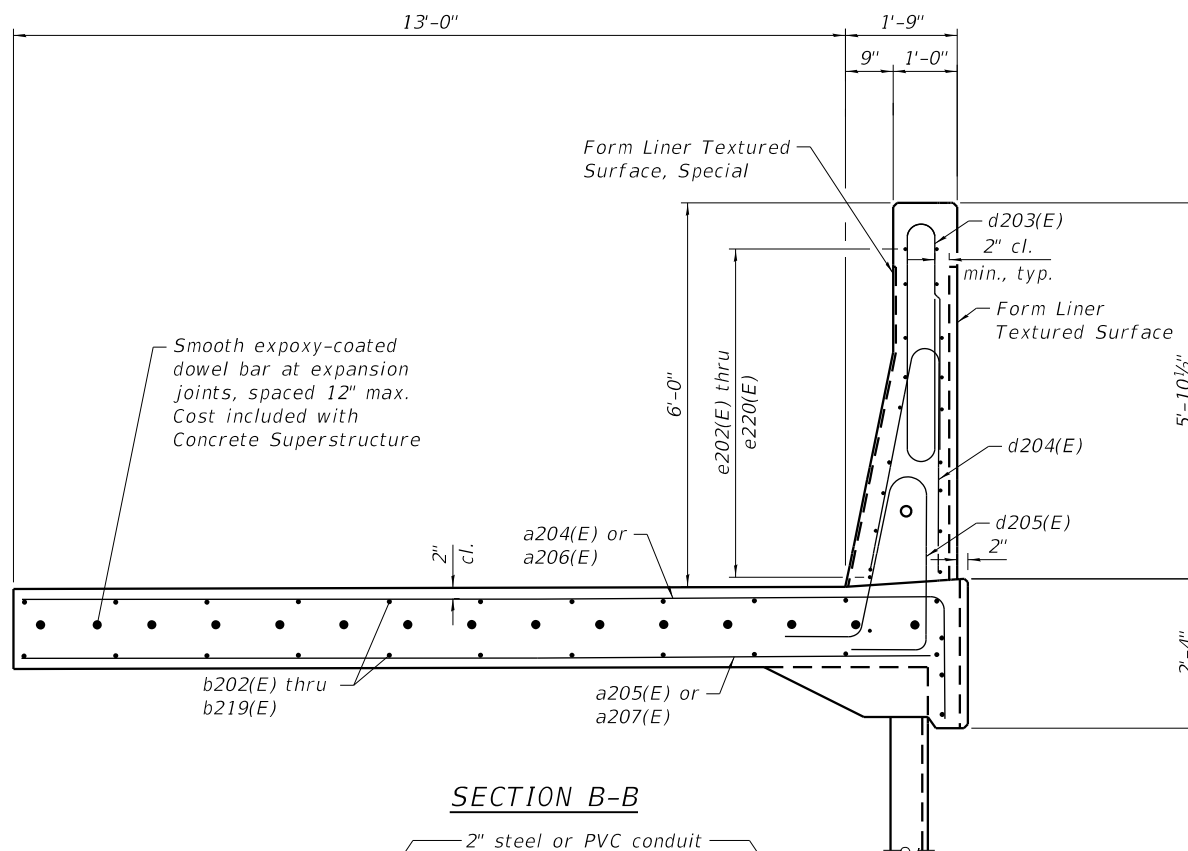
SHEET 53-31 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	498
CONTRACT NO. 61193				
ILLINOIS FED. AID PROJECT				

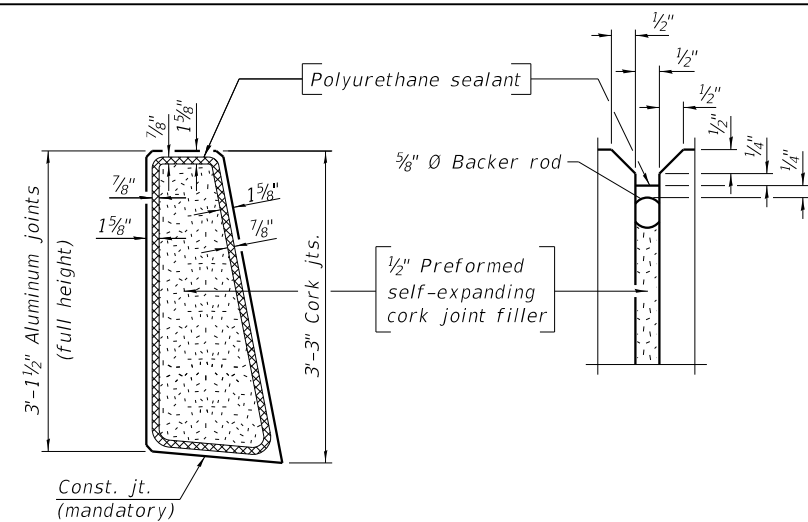
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 CONTRACT: 215Sheet Files\215\_Sheet133\_Structural\_Sheet133.dwg  
 DATE: 6/12/2024  
 USER: Mibeening



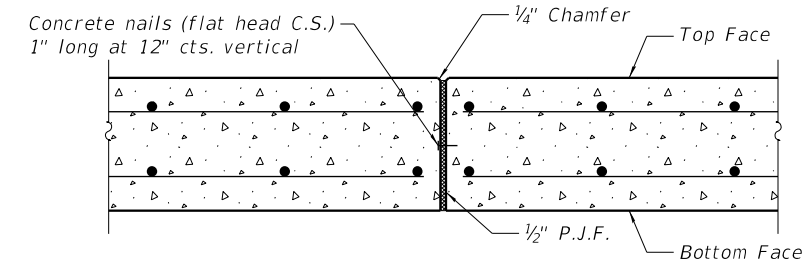
**SECTION A-A**



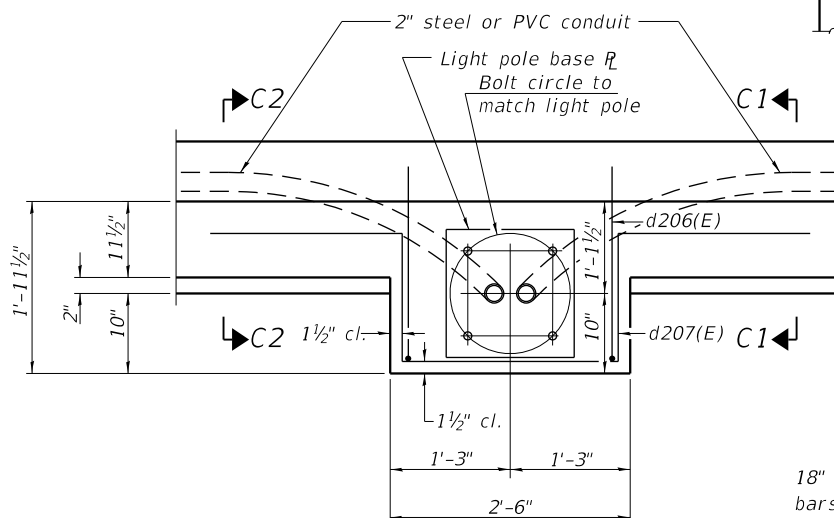
**SECTION B-B**



**PARAPET JOINT DETAILS**

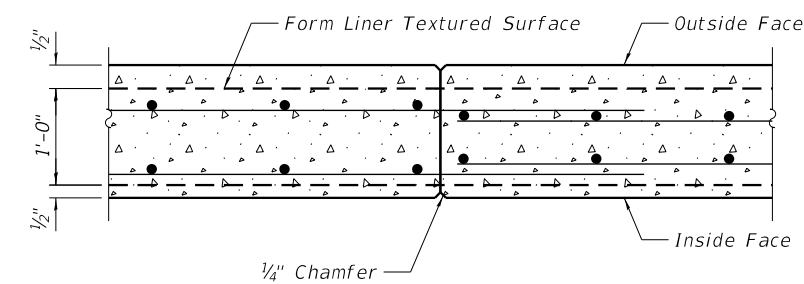


**MOMENT SLAB EXPANSION JOINT DETAIL**

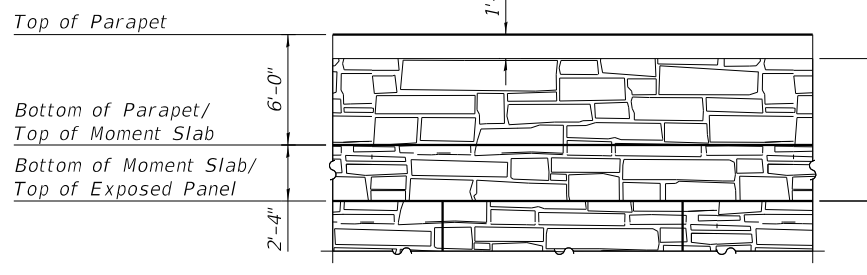


**PLAN**

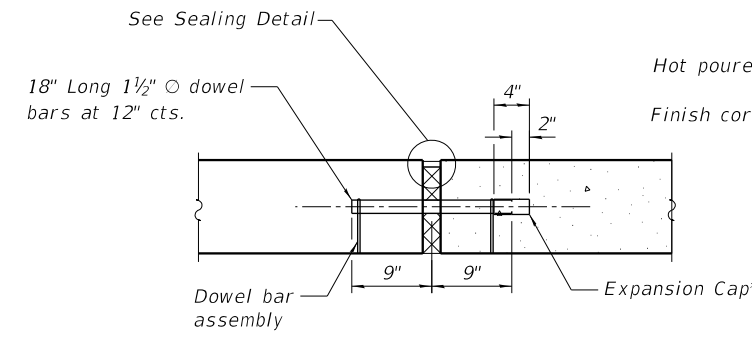
Note:  
 Cost of anchor rods and conduit is included with Concrete Superstructure.



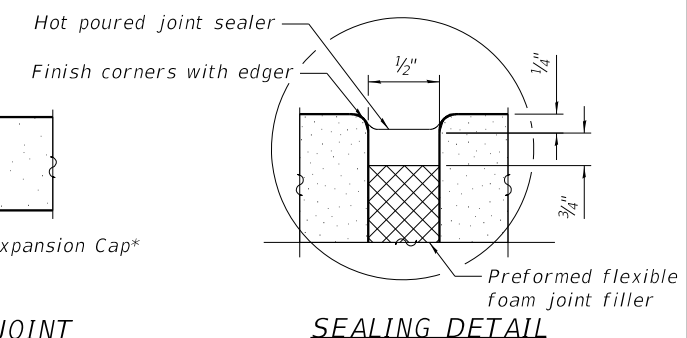
**PARAPET CONSTRUCTION JOINT DETAIL**  
 (Moment slab similar)



**FORM LINER DETAIL**



**TRANSVERSE EXPANSION JOINT**



**SEALING DETAIL**

USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	CHECKED - MDS	REVISED -
PLOT SCALE = 3,000' / in.	DATE - 6/14/2024	REVISED -
PLOT DATE = 6/12/2024		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB SECTION AND DETAILS 1  
 STRUCTURE NO. 056-W302**

SHEET 53-32 OF 53-67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	499
			CONTRACT NO. 61193	
		ILLINOIS FED. AID PROJECT		

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a200(E)	3858	#6	8'-2"	┌──┐
a201(E)	1959	#6	6'-2"	┌──┐
a202(E)	24	#6	18'-7"	┌──┐
a203(E)	25	#6	14'-9"	┌──┐
a204(E)	32	#6	32'-10"	┌──┐
a205(E)	35	#6	29'-0"	┌──┐
a206(E)	3700	#6	16'-2"	┌──┐
a207(E)	1879	#6	14'-0"	┌──┐
a208(E)	149	#6	9'-4"	┌──┐
a209(E)	77	#6	7'-5"	┌──┐

b200(E)	42	#5	23'-5"	┌──┐
b201(E)	28	#5	19'-11"	┌──┐
b202(E)	1030	#5	33'-2"	┌──┐
b203(E)	574	#5	29'-8"	┌──┐
b204(E)	14	#5	19'-6"	┌──┐
b205(E)	84	#5	23'-2"	┌──┐
b206(E)	14	#5	20'-7"	┌──┐
b207(E)	24	#5	30'-7"	┌──┐
b208(E)	24	#5	33'-5"	┌──┐
b209(E)	24	#5	29'-11"	┌──┐
b210(E)	24	#5	27'-6"	┌──┐
b211(E)	24	#5	21'-0"	┌──┐
b212(E)	22	#5	31'-5"	┌──┐
b213(E)	72	#5	31'-2"	┌──┐
b214(E)	48	#5	27'-8"	┌──┐
b215(E)	24	#5	26'-10"	┌──┐
b216(E)	24	#5	27'-4"	┌──┐
b217(E)	24	#5	20'-4"	┌──┐
b218(E)	14	#5	23'-3"	┌──┐
b219(E)	14	#5	13'-0"	┌──┐

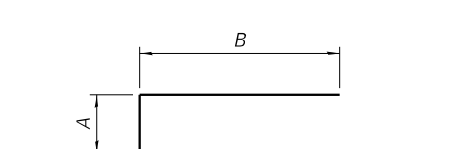
d200(E)	2491	#5	6'-5"	┌──┐
d201(E)	2367	#5	8'-6"	┌──┐
d202(E)	370	#4	2'-2"	┌──┐
d203(E)	2466	#5	10'-0"	┌──┐
d204(E)	2466	#5	8'-1"	┌──┐
d205(E)	2370	#5	9'-0"	┌──┐
d206(E)	271	#6	8'-11"	┌──┐
d207(E)	24	#6	7'-10"	┌──┐
d208(E)	9	#6	9'-3"	┌──┐
d209(E)	24	#6	4'-10"	┌──┐
d210(E)	6	#6	6'-6"	┌──┐
d211(E)	96	#6	12'-4"	┌──┐
d212(E)	124	#6	10'-8"	┌──┐

**BILL OF MATERIAL CONTINUED**

Concrete Superstructure	Cu. Yd.	2,572.2
Form Liner Textured Surface	Sq. Ft.	18,940
Protective Coat	Sq. Yd.	5,088
Reinforcement Bars, Epoxy Coated	Pound	459,910
Anti-Graffiti Coating	Sq. Ft.	56,060
Form Liner Textured Surface, Special	Sq. Ft.	11,866
Staining Concrete Structures	Sq. Ft.	46,715
Parapet Railing, Special	Foot	1,618

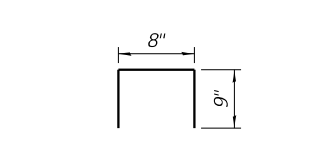
e200(E)	42	#6	24'-1"	┌──┐
e201(E)	14	#6	19'-11"	┌──┐
e202(E)	758	#6	33'-10"	┌──┐
e203(E)	422	#6	29'-8"	┌──┐
e204(E)	10	#6	20'-2"	┌──┐
e205(E)	60	#6	23'-10"	┌──┐
e206(E)	10	#6	19'-7"	┌──┐
e207(E)	18	#6	28'-7"	┌──┐
e208(E)	18	#6	30'-1"	┌──┐
e209(E)	18	#6	29'-11"	┌──┐
e210(E)	18	#6	28'-2"	┌──┐
e211(E)	18	#6	21'-0"	┌──┐
e212(E)	18	#6	32'-1"	┌──┐
e213(E)	54	#6	31'-10"	┌──┐
e214(E)	36	#6	29'-10"	┌──┐
e215(E)	18	#6	27'-6"	┌──┐
e216(E)	18	#6	25'-1"	┌──┐
e217(E)	24	#6	19'-7"	┌──┐
e218(E)	24	#6	20'-7"	┌──┐
e219(E)	24	#6	19'-6"	┌──┐
e220(E)	24	#6	11'-4"	┌──┐

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.

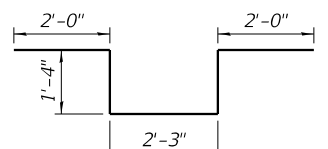


**BARS a200(E), a202(E), a208(E)  
d203(E), d207(E) thru d210(E)**

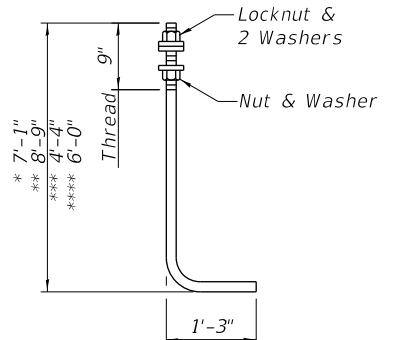
Bar	A	B
a200(E)	1'-11"	6'-3"
a206(E)	1'-11"	14'-3"
a208(E)	1'-11"	7'-5"
d207(E)	2'-0"	5'-10"
d208(E)	2'-0"	7'-3"
d209(E)	2'-0"	2'-10"
d210(E)	2'-0"	4'-6"



**BAR d202(E)**

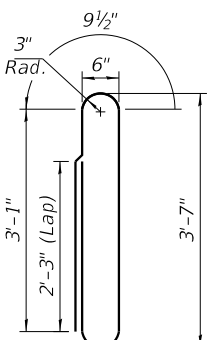


**BAR d206(E)**

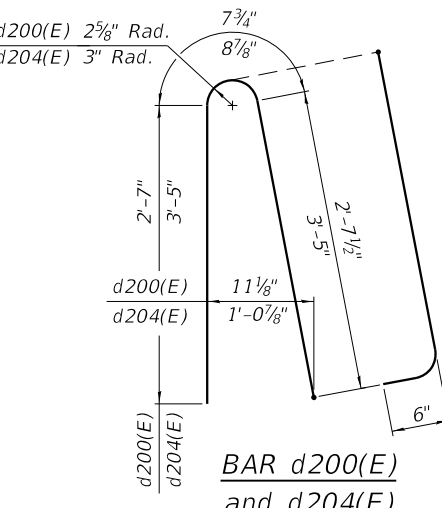


**ANCHOR ROD**

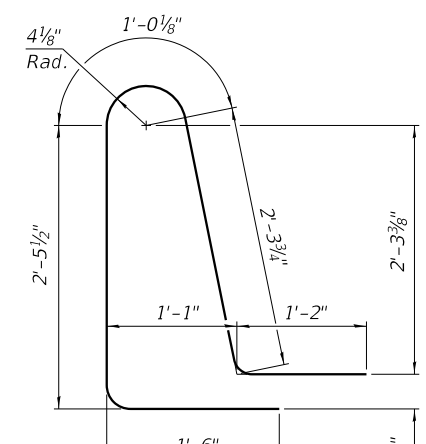
Diameter as specified for light poles. (ASTM F 1554 Grade 105)



**BAR d203(E)**



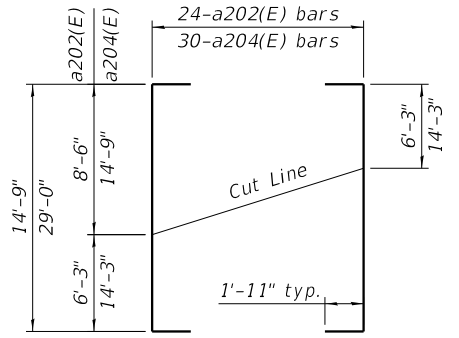
**BAR d200(E)  
and d204(E)**



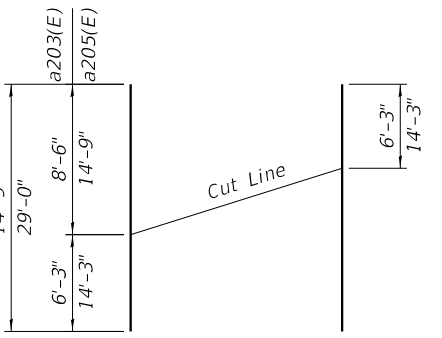
**BAR d201(E)**

**MIN BAR LAP**

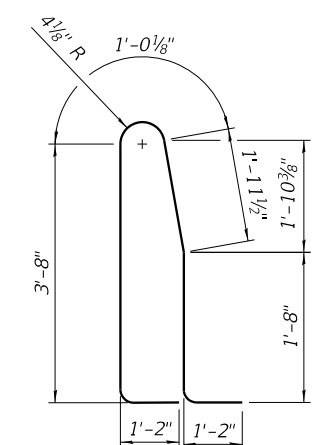
Bar	Lap
#4	2'-7"
#5	3'-2"
#6	3'-10"



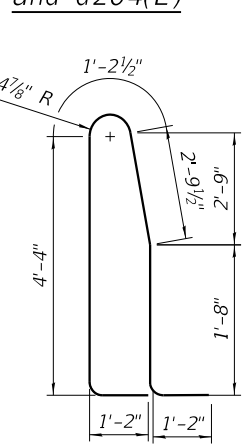
**BARS a202(E) and a204(E)**



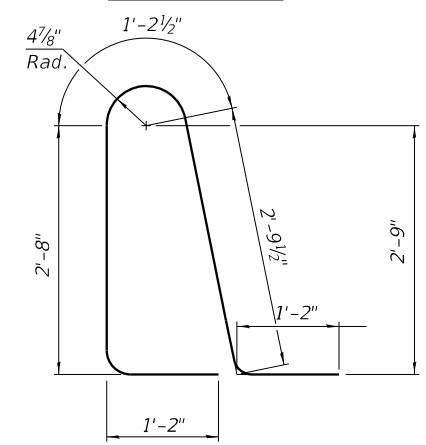
**BARS a203(E) and a205(E)**



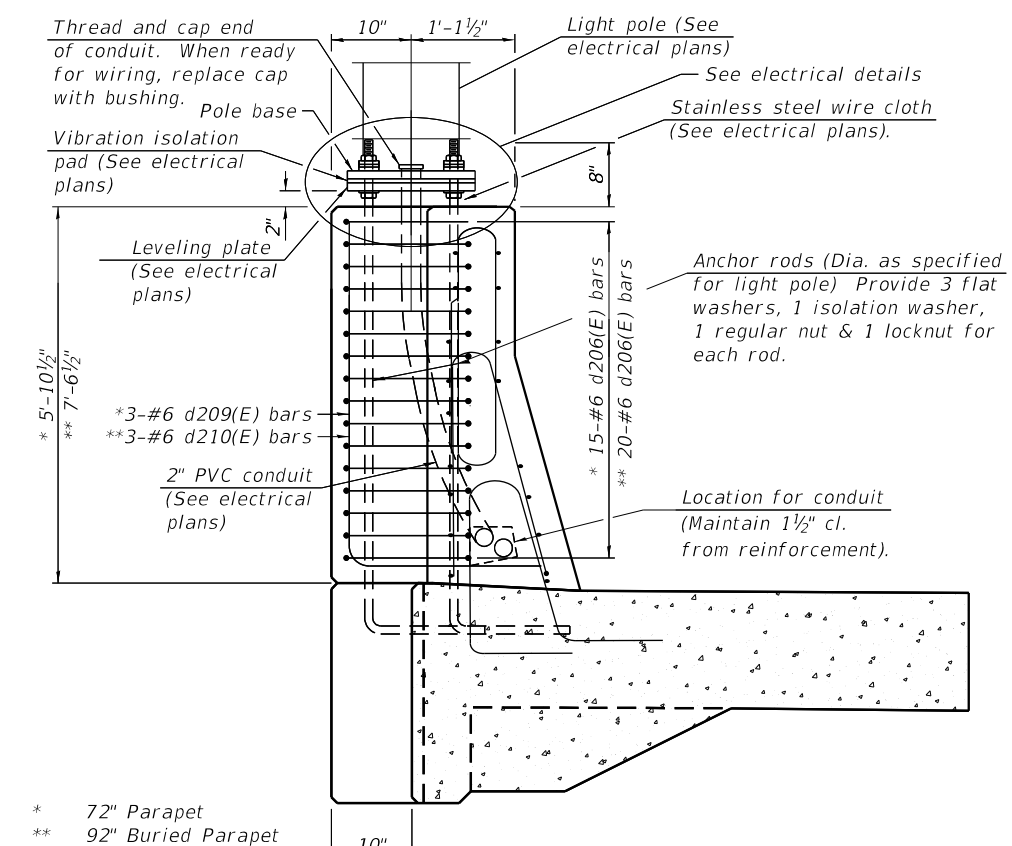
**BAR d212(E)**



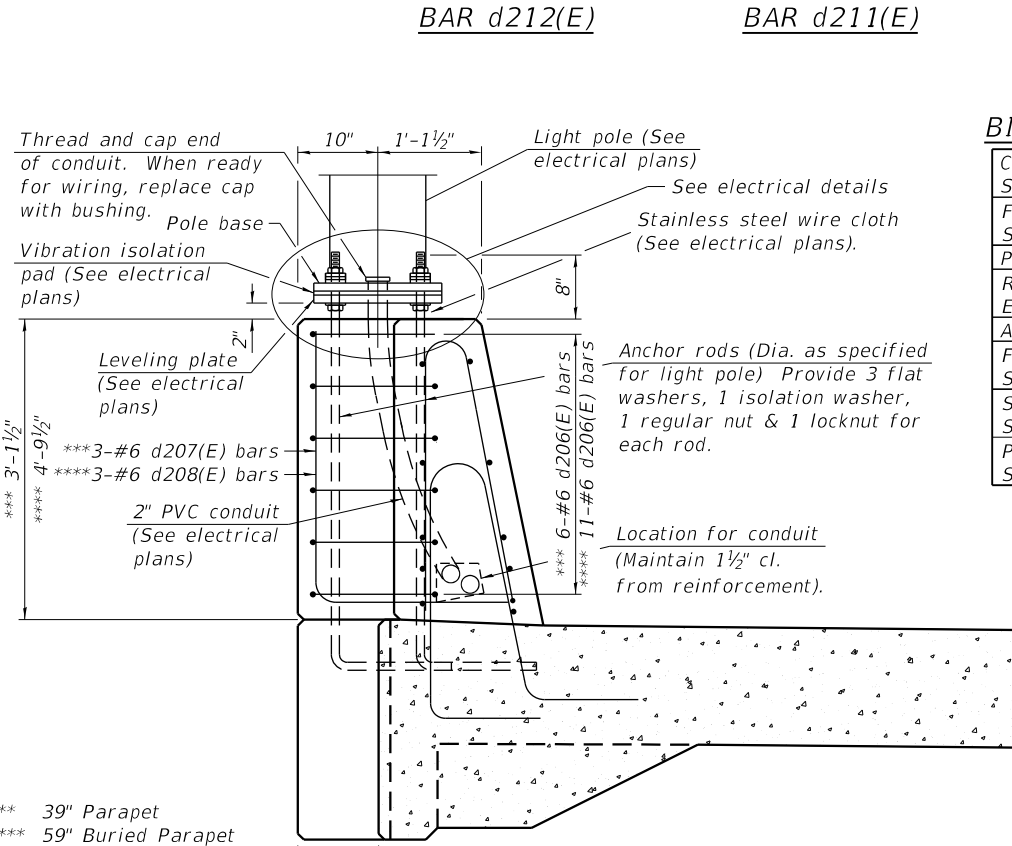
**BAR d211(E)**



**BAR d205(E)**



**SECTION C2-C2**



**SECTION C1-C1**

\* 72" Parapet  
\*\* 92" Buried Parapet

\*\*\* 39" Parapet  
\*\*\*\* 59" Buried Parapet

USER NAME = Mibeening	DESIGNED - JE	REVISED -
DRAWN - JE	REVISED -	
PLOT SCALE = 3.0000' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	500
			CONTRACT NO. 61193	
		ILLINOIS	FED. AID PROJECT	