

Bench Mark: BM 728: Aluminum disk in parapet wall near SE Abutment. Elev. 612.28, and BM 741: Aluminum disk on top of retaining wall at NW Corner of Laramie Bridge. Elev. 612.20.

Existing Structure: SN 016-2064 carrying Laramie Avenue over I-290 was originally constructed in 1954 as F.A. Route 131, Section 062-3030-2-MFT. In 1987 the bridge was rehabilitated including replacement of the deck, exp jts, bearings, parapets, and approach slabs, substructure repairs, and steel beam painting. The structure consists of a three span continuous non-composite steel beam bridge supported on closed abutments founded on spread footings, and concrete wall piers founded on spread footings. The overall structure is 204'-6" back to back of abutments with a 0° skew (relative to I-290 skew of 0°-37'), with an out to out structure width of 81'-0".

Laramie Avenue will be closed to traffic during construction.
I-290 traffic lanes will be maintained utilizing stage construction.

No Salvage

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)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.086g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.148g
Soil Site Class = D

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.
Live Load Max. Deflections = L/1000 (Laramie Bridge)

APPROVED
For Structural Adequacy Only
Justin Man
Engineer of Bridges & Structures

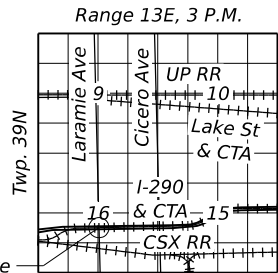


Michael M. Zelisko
SIGNATURE:

DATE: **March 16, 2026**
EXPIRES: November 30, 2026
SHEETS:

Notes:

- See Roadway details for alignment geometry.
- Bridge mounted sign structure required to accommodate current lane configuration. Future signing locations are not known and may require future field retrofit of the beams to support future bridge mounted sign structures or removal of mounted signs.
- Future retaining walls shall be constructed from end of prop. wingwalls.
- All structural steel metalized.
- Protective Shield requirements over the CTA tracks are required during removal and erecting operations as noted in the CTA Special Provisions. The quantity of Protective Shield required for the proposed structure over the CTA tracks will be included in the cost of Protective Shield.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

F.A.U. 2803 (LARAMIE AVENUE) OVER

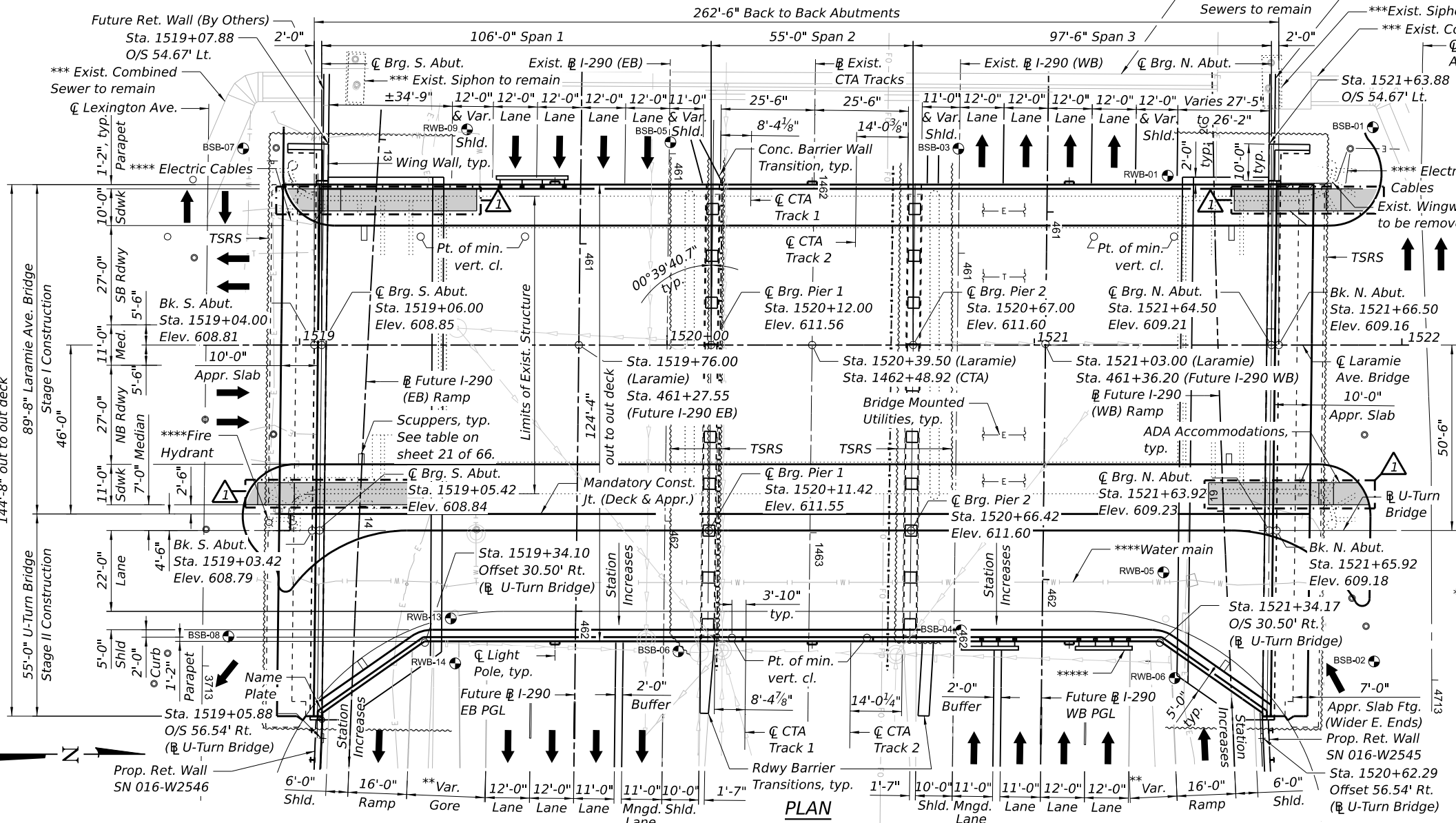
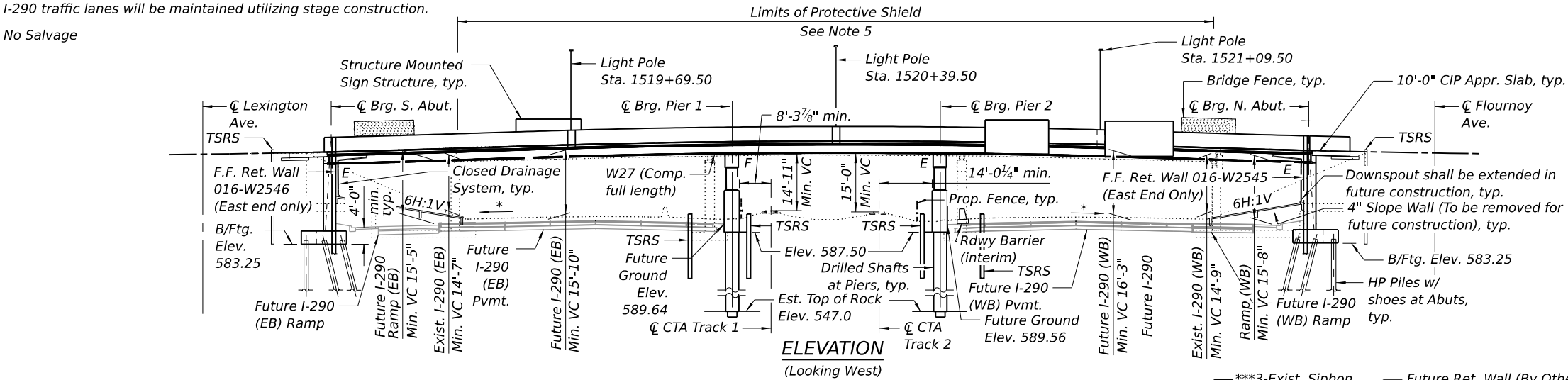
F.A.I. RTE. 290 (EISENHOWER EXPWY) AND CTA

SECTION 22 STRUCTURE 1

COOK COUNTY

STATION 1520+39.50

S.N. 016-2015



LEGEND

- Soil Boring
 - Exist. Electric
 - Exist. Telephone
 - Exist. Water Main
 - Exist. Buried Cable
 - Exist. Storm Sewer
 - Exist. Fence
 - Exist. Manhole
 - Exist. Catch Basin
 - Exist. Fire Hydrant
 - Exist. Sign
 - Prop. Fence
 - Prop. ADA Ramp
- * See roadway typical section for existing and future cross slope information
- ** Varies 15'-5 7/8" to 20'-3 3/8" (EB)
Varies 5'-4 1/8" to 10'-11 1/8" (WB)
- *** To be removed in future construction
- **** To be relocated by others
- ***** Bridge mounted sign structure, typ., shall accommodate wider parapet at light pole foundations

1 REVISED SHEET 5/28/2026



USER NAME =	mzelisko	DESIGNED -	MZ	REVISED	5/15/2026 MZ
CHECKED -	DF	REVIS	-	REVISED	-
PLOT SCALE =	36,000' / in.	DRAWN -	SS	REVISED	-
PLOT DATE =	04/24/2026	CHECKED -	DF	REVISED	-

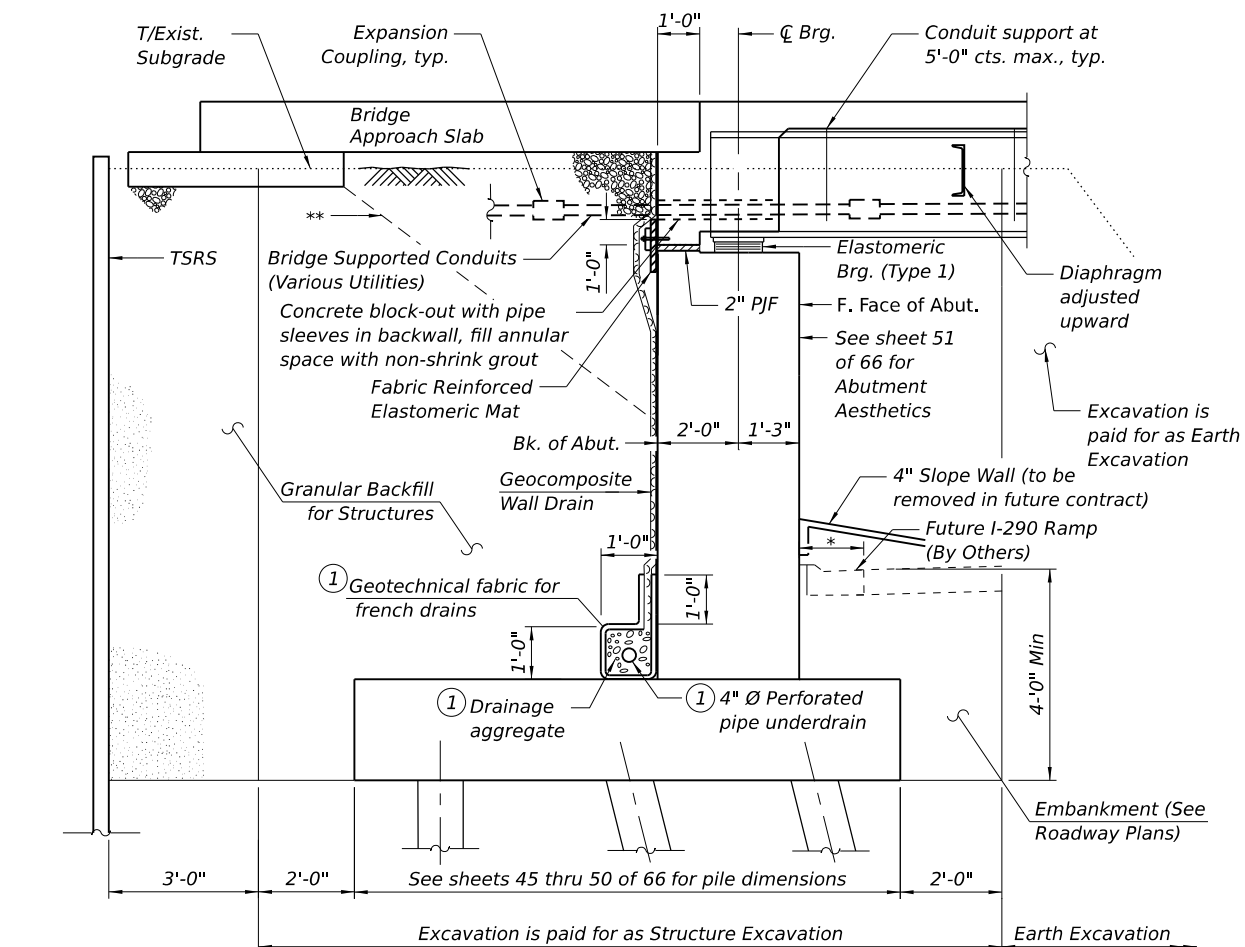
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	332	170
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

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1. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvanized bolts in uncoated metallized areas. Bolts $\frac{7}{8}$ in. diameter, holes $\frac{15}{16}$ in. diameter, unless otherwise noted. See special provision for "Metalizing of Structural Steel".
2. Calculated weight of Structural Steel = 1,937,910 Gr. 50 ksi
= 110,170 Gr. 36 ksi
3. All structural steel shall be metalized. See Special Provision for "Metalizing of Structural Steel."
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.
7. Slipforming of the parapets is not allowed.
8. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
9. Film forming concrete sealer shall be applied on horizontal surfaces and penetrating concrete sealer on vertical surfaces. Concrete sealer shall be applied to the abutment beam seats, front face of abutments and wingwalls, and exposed surfaces of piers prior to setting bearings or structural steel.
10. The existing structural steel coating contrains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
11. The existing bearings contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.
12. The existing conduits may contain asbestos. See the special provision "Removal of Asbestos Cement Conduits".
13. For Conduit Attached to Structure quantities and details, see Electrical Plans.
14. Contractor shall coordinate with utility companies to determine number, size and location of conduits supported by the bridge.



① Included in the cost of Pipe Underdrains for Structures, 4"

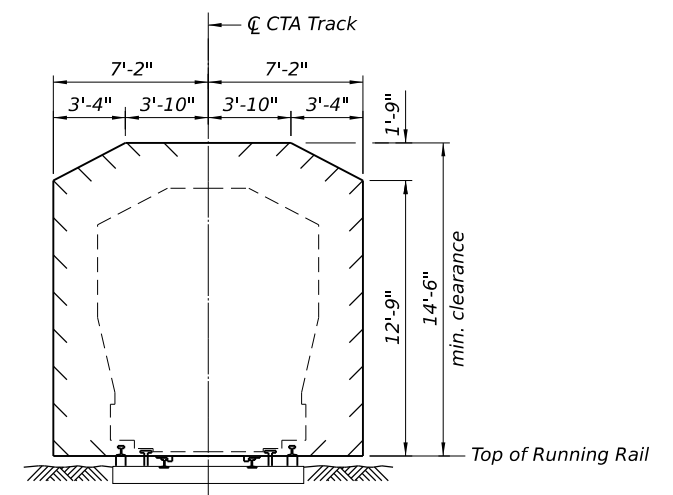
* 1'-10" min. at S. Abut.
2'-1³/₄" min. at N. Abut.

**** Backfill below 1H:1V limit shown shall be compacted per Section 205.06 of the Standard Specifications. Backfill above limit shall be compacted per Section 586 of the Standard Specifications.**

- 1 General Plan and Elevation
- 2 General Data I
- 3 General Data II
- 4 Footing Layout And Existing Utility Plan
- 5 Miscellaneous Details I
- 6 Miscellaneous Details II
- 7 Miscellaneous Details III
- 8 Top of Slab Elevations Layout
- 9 Top of Slab Elevations I
- 10 Top of Slab Elevations II
- 11 Top of Slab Elevations III
- 12 Top of Slab Elevations IV
- 13 Top of Slab Elevations V
- 14 Top of Slab Elevations VI
- 15 Top of South Approach Slab Elevations
- 16 Top of North Approach Slab Elevations
- 17 Superstructure Plan
- 18 Superstructure Cross Section
- 19 Superstructure Details I
- 20 Superstructure Details II
- 21 Superstructure Details III
- 22 Superstructure Details IV
- 23 Superstructure Details V
- 24 Decorative Parapet Details I
- 25 Decorative Parapet Details II
- 26 Concrete Diaphragms I
- 27 Concrete Diaphragms II
- 28 Diaphragm Details
- 29 Bridge Approach Slab Plan
- 30 Bridge Approach Slab Section
- 31 Bridge Approach Slab Details
- 32 Bridge Fence Railing I
- 33 Bridge Fence Railing II
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- 36 Drainage Scuppers, DS-11
- 37 Drainage Scuppers, DS-33
- 38 Drainage System Details
- 39 Framing Plan
- 40 Structural Steel Details I
- 41 Structural Steel Details II
- 42 Structural Steel Details III
- 43 Bearing Details
- 44 Abutment Removal Details
- 45 South Abutment Plan and Elevation I
- 46 South Abutment Plan and Elevation II
- 47 South Abutment Details
- 48 North Abutment Plan and Elevation I
- 49 North Abutment Plan and Elevation II
- 50 North Abutment Details
- 51 Abutment Aesthetic Details
- 52 Pier Removal Details
- 53 Pier 1 Plan and Elevation
- 54 Pier 1 Details
- 55 Pier 2 Plan and Elevation
- 56 Pier 2 Details
- 57 HP Pile Details
- 58 Bar Splicer Details
- 59 Soil Boring Logs I
- 60 Soil Boring Logs II
- 61 Soil Boring Logs III
- 62 Soil Boring Logs IV
- 63 Soil Boring Logs V
- 64 Soil Boring Logs VI
- 65 Soil Boring Logs VII
- 66 Soil Boring Logs VIII

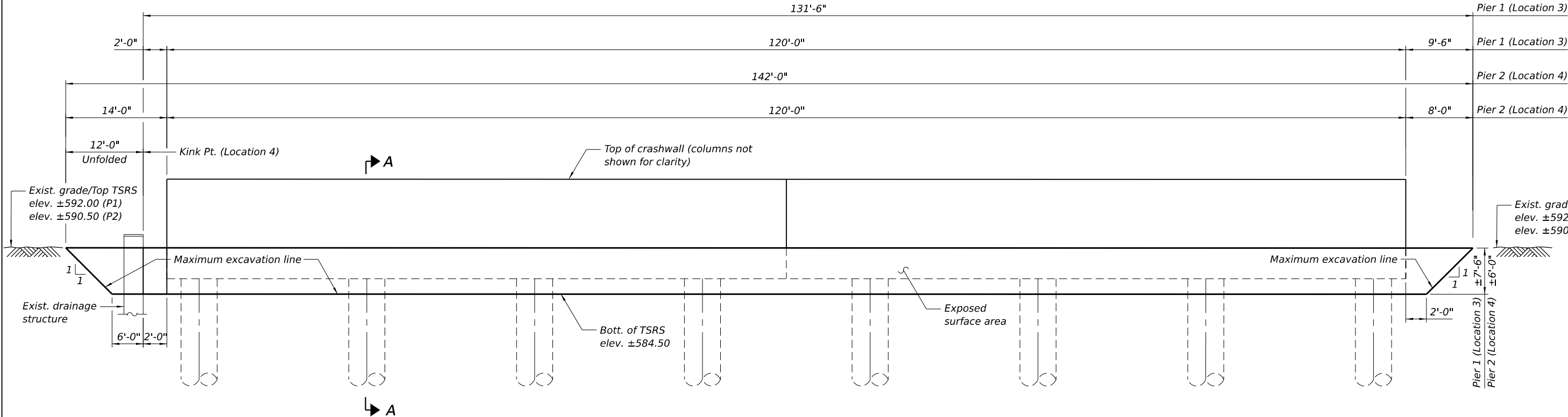
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1	-	1
Protective Shield	Sq. Yd.	1,799	-	1,799
Structure Excavation	Cu. Yd.	-	5,603.9	5,603.9
Concrete Structures	Cu. Yd.	-	2,054.8	2,054.8
Concrete Superstructure	Cu. Yd.	1,282.8	-	1,282.8
Bridge Deck Grooving	Sq. Yd.	2,839	-	2,839
Form Liner Textured Surface	Sq. Ft.	-	2,959	2,959
Protective Coat	Sq. Yd.	4,212	-	4,212
Concrete Superstructure (Approach Slab)	Cu. Yd.	153.5	-	153.5
Furnishing And Erecting Structural Steel	L. Sum	1.0	-	1.0
Stud Shear Connectors	Each	26,838	-	26,838
Reinforcement Bars	Pound	-	45,720	45,720
Reinforcement Bars, Epoxy Coated	Pound	315,420	246,230	561,650
Bar Splicers	Each	942	-	942
Bridge Fence Railing	Foot	274	-	274
Bridge Fence Railing, Curved	Foot	261	-	261
Slope Wall 4 Inch	Sq. Yd.	-	870	870
Furnishing Steel Piles HP12x74	Foot	-	7,790	7,790
Driving Piles	Foot	-	7,790	7,790
Test Pile Steel HP12x74	Each	-	4	4
Pile Shoes	Each	-	168	168
Name Plates	Each	1	-	1
Drilled Shaft In Soil	Cu. Yd.	-	231.0	231.0
Drilled Shaft In Rock	Cu. Yd.	-	10.6	10.6
Elastomeric Bearing Assembly, Type I	Each	81	-	81
Anchor Bolts, 3/4"	Each	162	-	162
Anchor Bolts, 1"	Each	50	-	50
Temporary Soil Retention System	Sq. Ft.	-	15,300	15,300
Drainage System For Structures	L. Sum	-	1.0	1.0
Granular Backfill For Structures	Cu. Yd.	-	3,288.4	3,288.4
Concrete Sealer	Sq. Ft.	-	16,467	16,467
Geocomposite Wall Drain	Sq. Yd.	-	738	738
Pipe Underdrains For Structures 4"	Foot	-	324	324
Pipe Underdrains For Structures (Special) 4"	Foot	-	66	66
Crosshole Sonic Logging Access Ducts	Foot	-	688	688
Crosshole Sonic Logging Testing	Each	-	4	4
Bar Terminators	Each	1,010	-	1,010
Drainage Scuppers, DS-11	Each	4	-	4
Drainage Scuppers, DS-33	Each	2	-	2

NAME PLATE
See Std. 515001

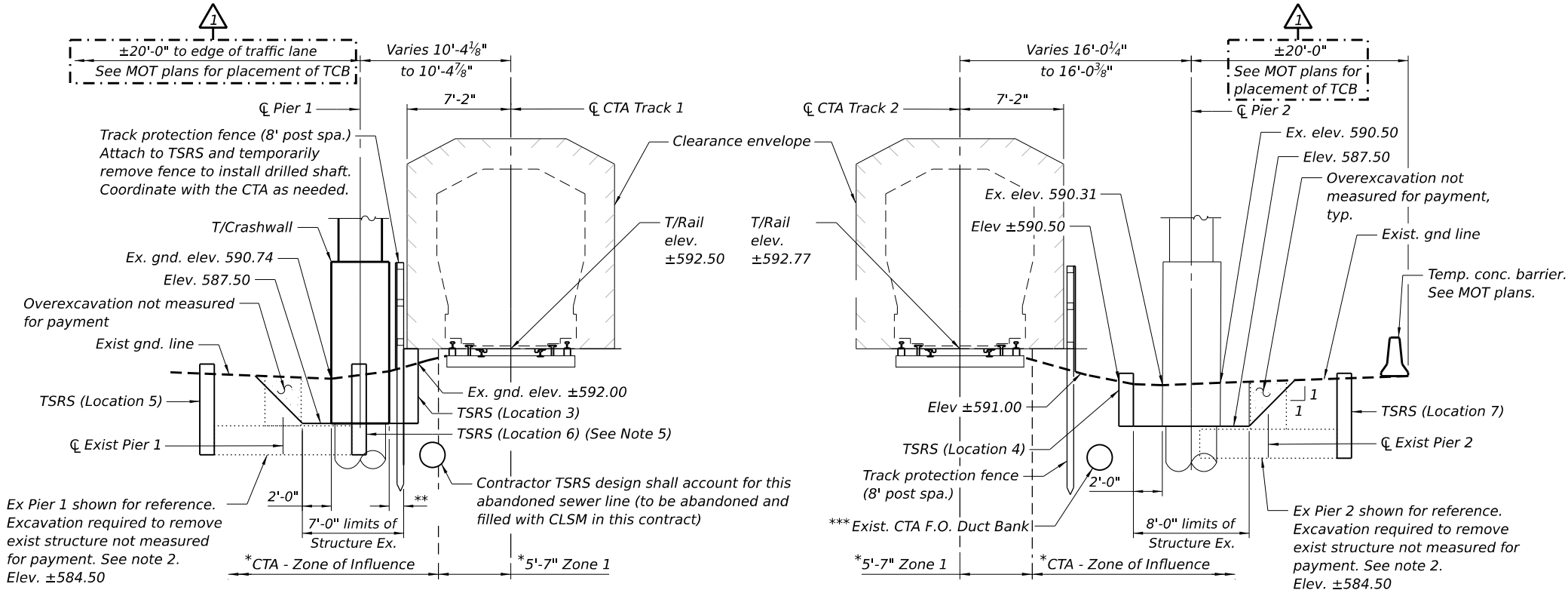


MINIMUM CTA CONSTRUCTION CLEARANCES

1 REVISED SHEET 5/28/2026



TSRS LOCATIONS 3 AND 4 - ELEVATION VIEW
Location 3 shown (Pier 1), Location 4 (Pier 2) opposite hand



SECTION A-A
Location 3 - Pier 1

*See requirements in the special provisions and Section 3.1 of the CTA's Adjacent Construction Manual for additional details and requirements.

**0' to 1'-0" (Contractor to place as required to clear existing elements)

*** Locate prior to installing TSRS and protection fence

SECTION A-A
Location 4 - Pier 2

- NOTES:**
1. The TSRS shall be designed and coordinated per the requirements in the CTA's Adjacent Construction Manual. See Special Provision "CTA Flagging and Coordination".
 2. For removal of existing pier details, see sheet 52 of 66.
 3. Track protection fence shall be provided per the requirements in the CTA's Adjacent Construction Manual. See the special provision "CTA Flagging and Coordination".
 4. CTA's Adjacent Construction Manual requirement may limit excavation parallel to the track no greater than 100'-0". Contractor shall stage the work as needed to meet this requirement and adjustments needed will not be measured for payment and are included in the cost of TSRS.
 5. TSRS Location 6 is required for the removal of the existing footing and installation of the relocated drainage pipe. This TSRS shall be removed in its entirety prior to installation of TSRS Location 3 and installation of drilled shafts.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	1,774

1 REVISED SHEET 5/28/2026

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PLOT DATE =	04/24/2026	CHECKED -	JJH	REVISED	-	

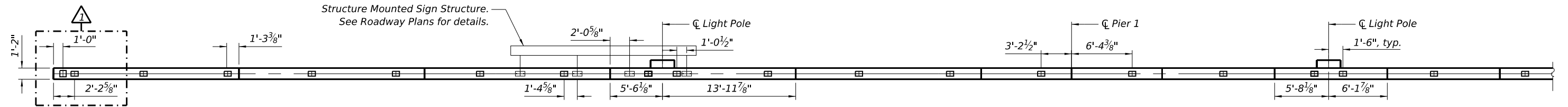
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS II
STRUCTURE NO. 016-2015

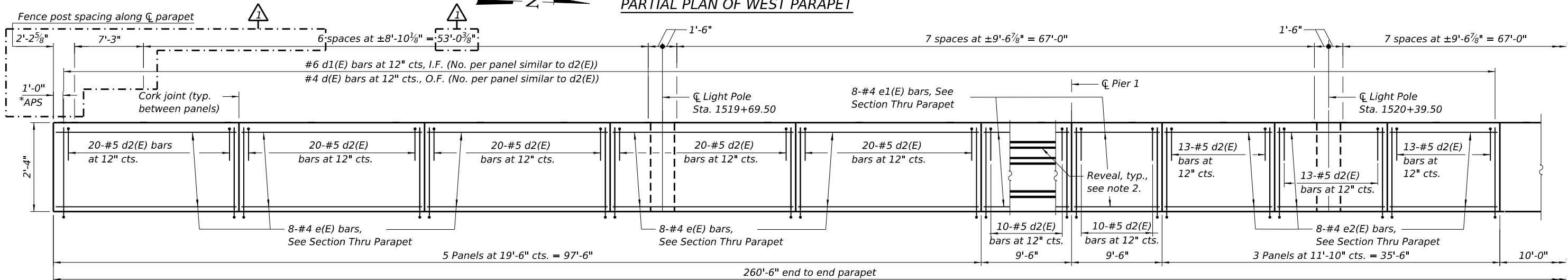
SHEET 6 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	332	175
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

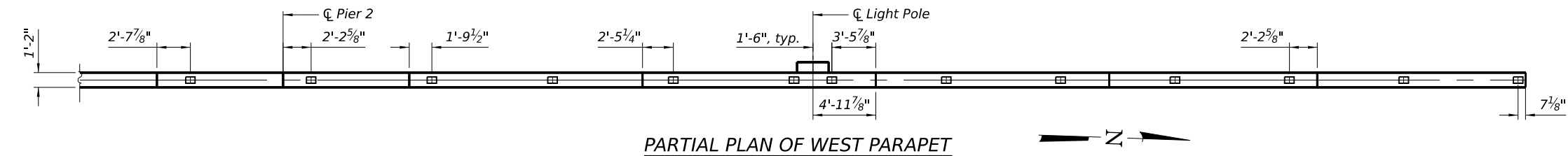
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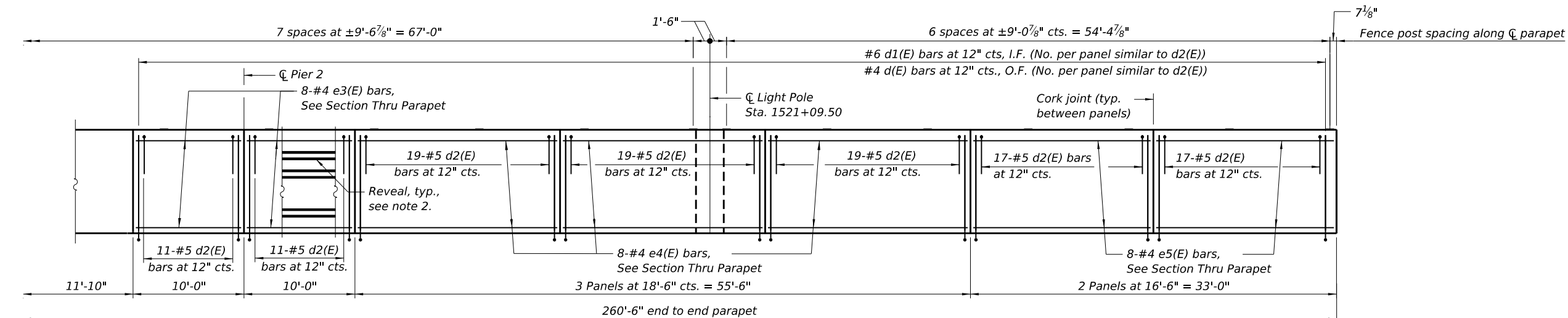
PARTIAL PLAN OF WEST PARAPET



PARTIAL INSIDE ELEVATION OF WEST PARAPET
(Looking West)



PARTIAL PLAN OF WEST PARAPET



PARTIAL INSIDE ELEVATION OF WEST PARAPET
(Looking West)

NOTES:

1. All edges shall be chamfered $\frac{3}{4}"$.
2. The reveal on the "Chicago Wall" parapet will not be paid separately and shall be included in the cost of pay item Concrete Superstructure. See sheets 22 and 24 of 66 for reveal details.
3. For Section Thru Parapet, bar diagrams, and Bill of Material, see sheet 23 of 66.
4. For Bridge Fence Railing and details, see sheets 32 thru 35 of 66.
5. For light pole details see Electrical plans.

REVISD SHEET 5/28/2026



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		CHECKED -	MZ	REVISED -		
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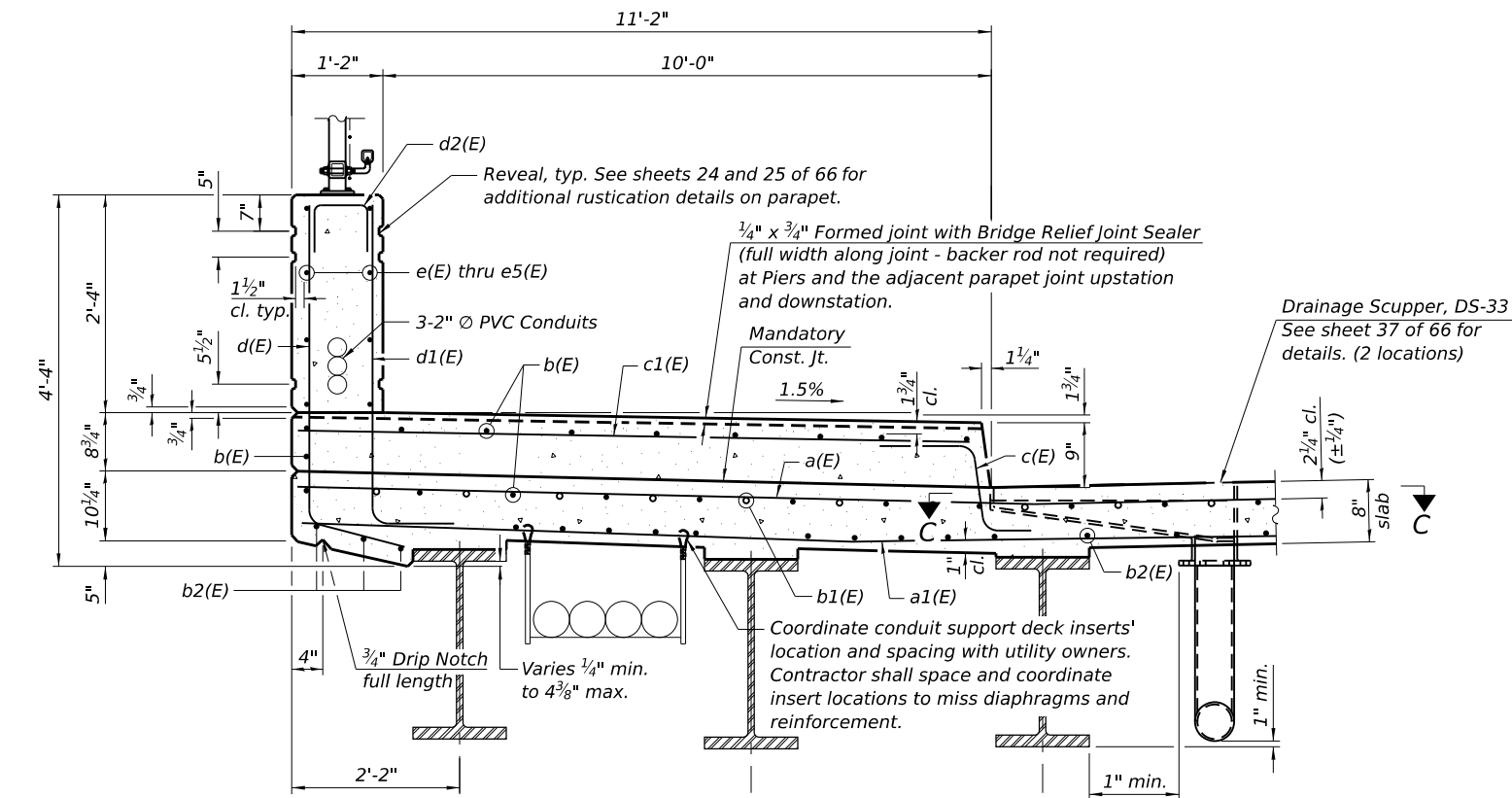
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS I
STRUCTURE NO. 016-2015

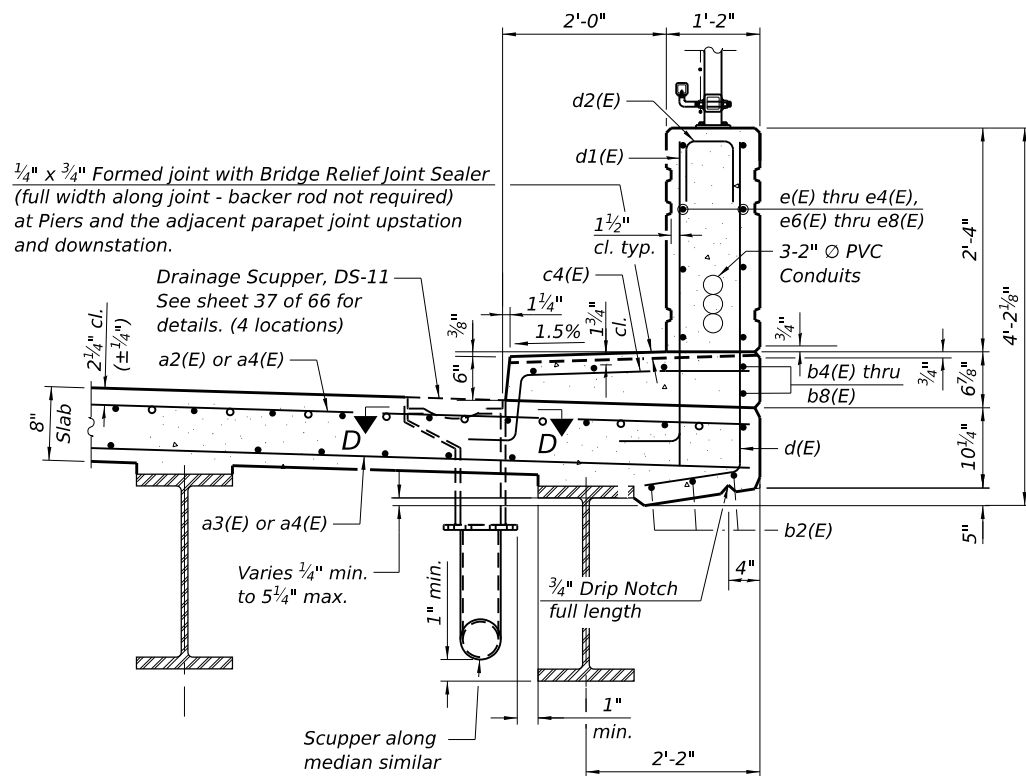
SHEET 19 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

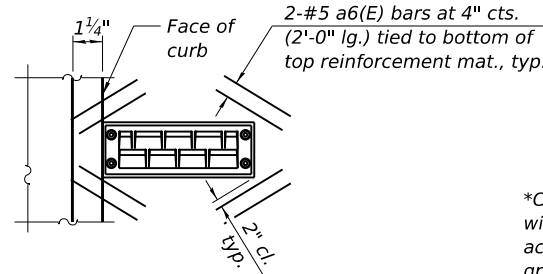
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SECTION THRU WEST PARAPET & SIDEWALK

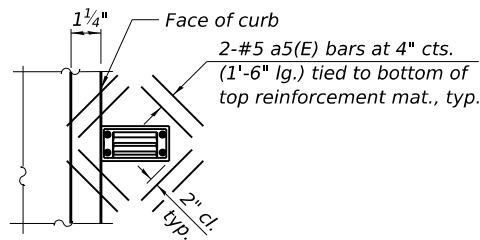


SECTION THRU EAST PARAPET



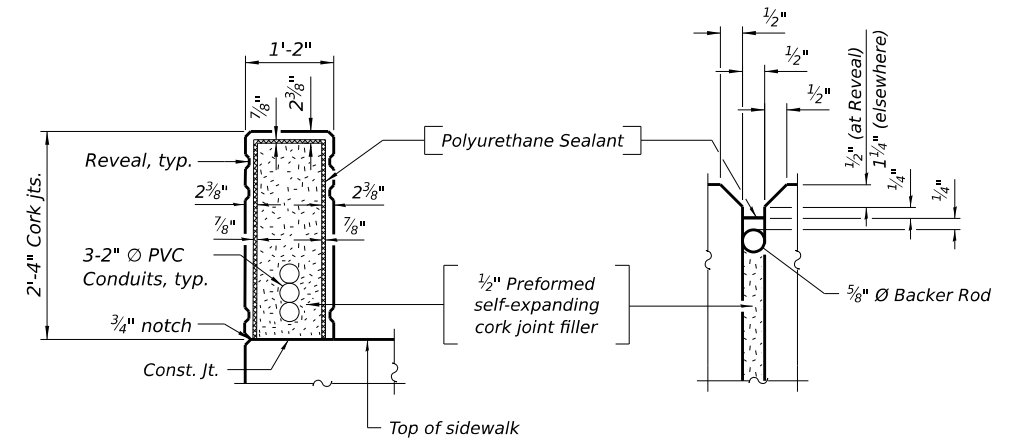
SECTION C-C DS-33 SCUPPER

(2 locations)
(Cut longitudinal reinforcement to clear drainage scuppers. Space transverse bars to miss scupper.)



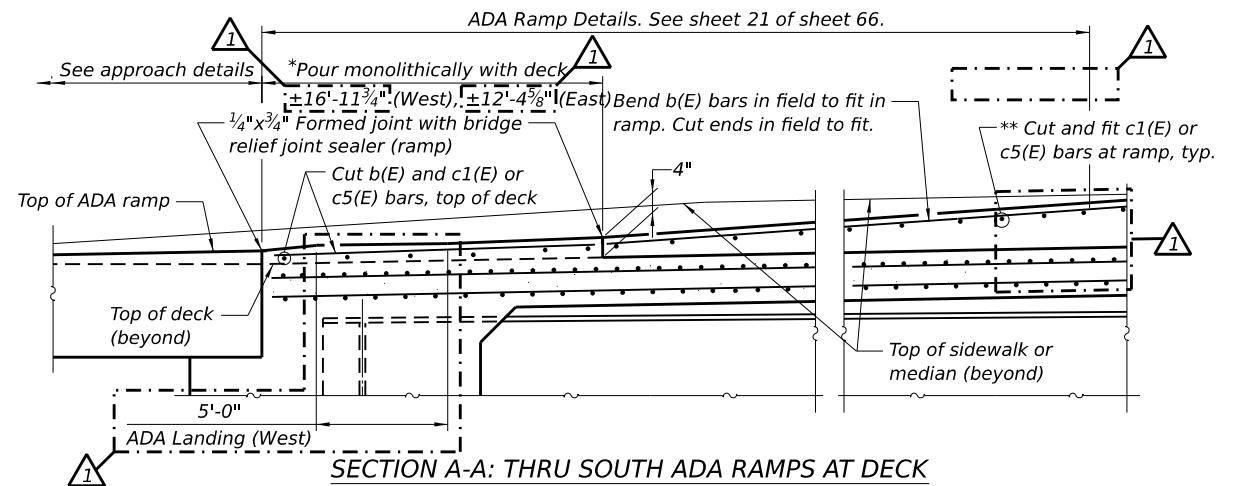
SECTION D-D DS-11 SCUPPER

(4 locations)
(Cut longitudinal reinforcement to clear drainage scuppers. Space transverse bars to miss scupper.)



PARAPET JOINT DETAILS

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

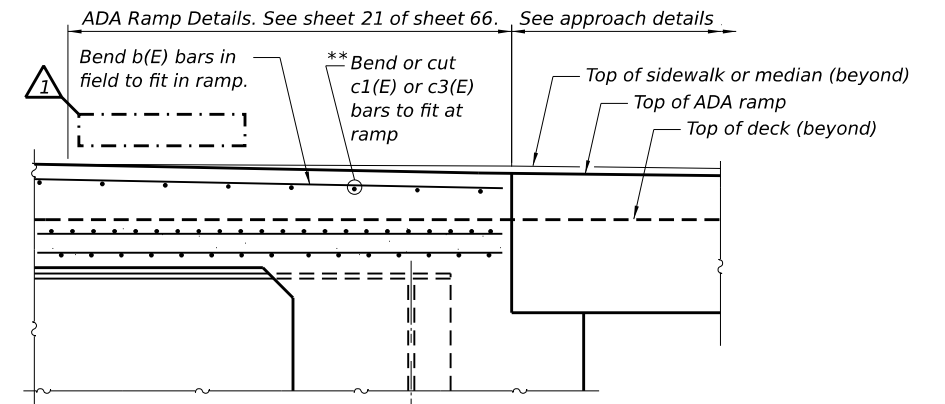


SECTION A-A: THRU SOUTH ADA RAMP AT DECK

(Looking West)
c(E) bars not shown for clarity. See sheet 21 of 66 for location of Section A-A.

*Contractor shall pour portion of ADA ramp and sidewalk monolithically with the deck. Contractor shall submit details to the Engineer for acceptance. Contractor may construct ramp at a higher elevation and grind concrete to elevation required.

**Use remainder of cut bars in adjacent portion of sidewalk



SECTION B-B: THRU NORTH ADA RAMP AT DECK

(Looking West)
c(E) bars not shown for clarity. See sheet 21 of 66 for location of Section B-B.

REVISD SHEET 5/28/2026



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		CHECKED -	MZ	REVISED	-
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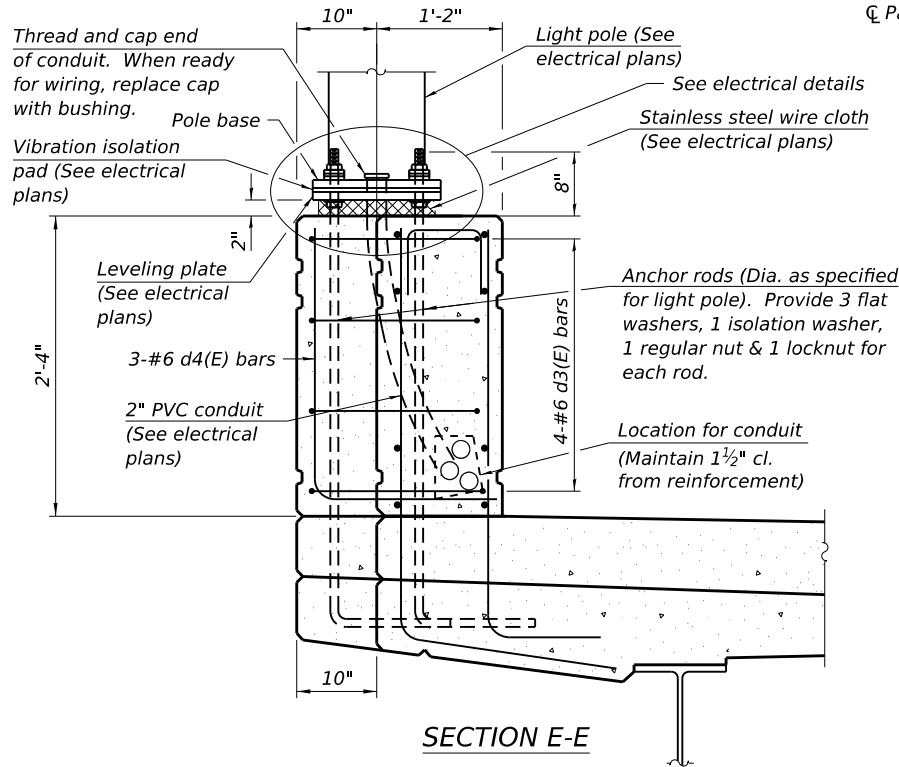
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS IV
STRUCTURE NO. 016-2015

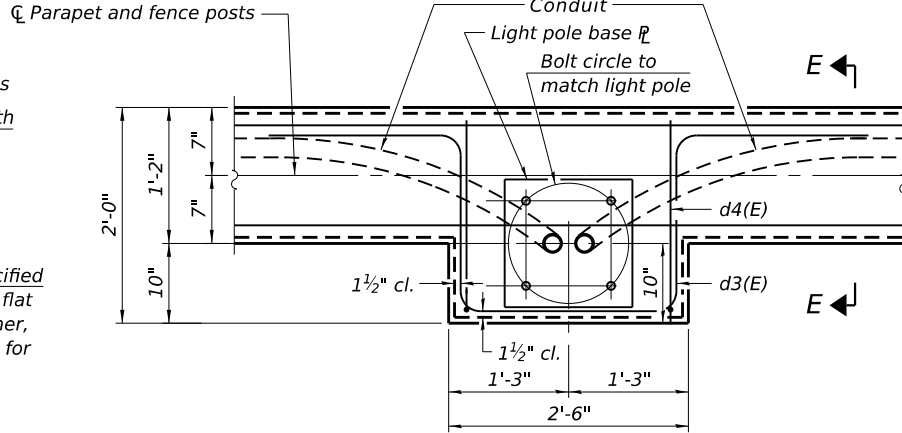
SHEET 22 OF 66 SHEETS

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CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

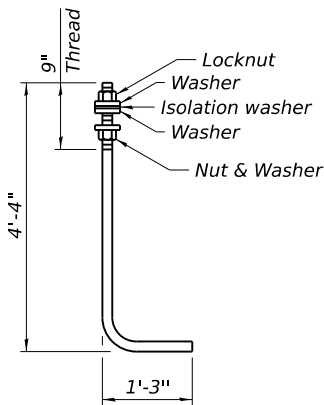
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PARAPET DETAIL AT LIGHTPOLE
(6 Locations)

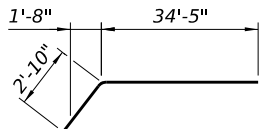


PLAN

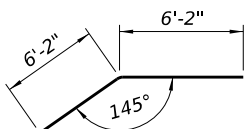


ANCHOR ROD

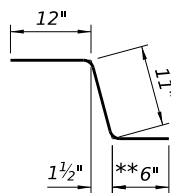
Diameter as specified for light poles.
(ASTM F 1554 Grade 105) Full length hot
dipped galvanized. Cost of anchor rods is
included with Concrete Superstructure.



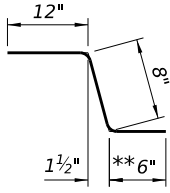
BAR b6(E)



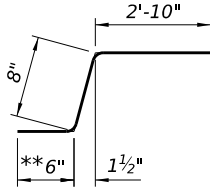
BAR b8(E)



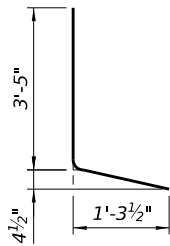
BAR c(E)



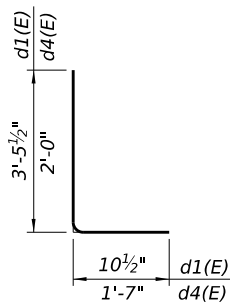
BAR c2(E)



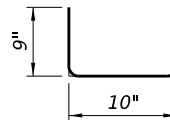
BAR c4(E)



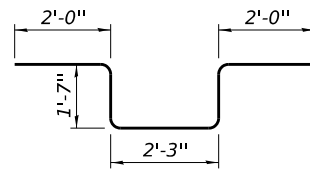
BAR d(E)



BAR d1(E) & d4(E)



BAR d2(E)

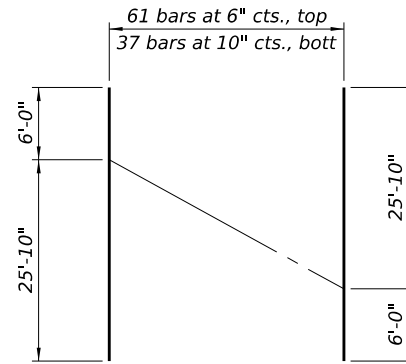


BAR d3(E)

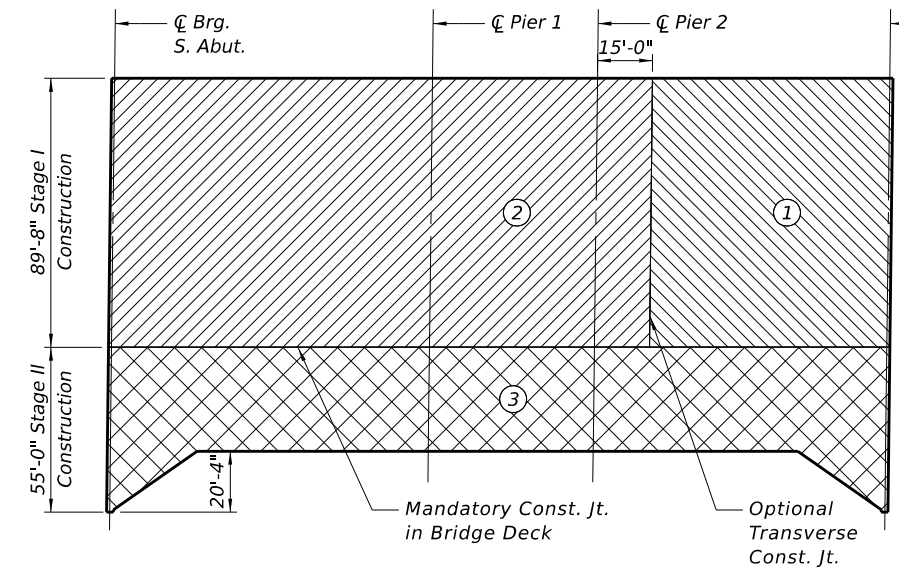
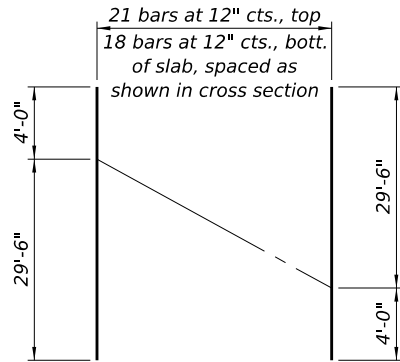
BAR CUTTING DIAGRAM

Order bars full length. Cut as shown,
use remainder in same level at opposite corner

BAR a4(E)



BAR b3(E)



DECK POUR SEQUENCE

DECK POUR NOTES SEQUENCE 1 AND 2

When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

- At least 72 hours shall have elapsed from the end of the previous pour.
- The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compressive strength of 4000 psi.

DECK POUR NOTES SEQUENCE 3

The deck pour noted as sequence 3 shall not be made until 4 months duration has elapsed from the end of pour sequence 2. This is required to allow creep and shrinkage to occur between the deck pours.

The entire sidewalk/median shall be poured after the deck constructed in sequence 3 has cured per Article 503.17 of the standard specifications.

SUPERSTRUCTURE

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1772	#5	25'-0"	
a1(E)	1252	#5	32'-2"	
a2(E)	886	#5	18'-11"	
a3(E)	443	#5	34'-4"	
a4(E)	98	#5	31'-10"	
a5(E)	32	#5	1'-6"	
a6(E)	16	#5	2'-0"	
b(E)	1422	#5	32'-3"	
b1(E)	372	#6	36'-8"	
b2(E)	1160	#5	29'-2"	
b3(E)	39	#5	33'-6"	
b4(E)	16	#5	38'-0"	
b5(E)	40	#5	28'-2"	
b6(E)	6	#5	37'-3"	
b7(E)	2	#5	12'-11"	
b8(E)	8	#5	12'-4"	
b9(E)	21	#5	26'-0"	
b10(E)	9	#5	16'-7"	
b11(E)	16	#5	45'-0"	
b12(E)	6	#5	19'-0"	
c(E)	522	#5	2'-5"	
c1(E)	261	#5	10'-10"	
c2(E)	263	#5	2'-2"	
c3(E)	238	#5	17'-8"	
c4(E)	273	#5	4'-0"	
c5(E)	23	#5	26'-2"	
d(E)	559	#4	5'-1"	
d1(E)	559	#6	4'-4"	
d2(E)	559	#5	2'-4"	
d3(E)	24	#6	9'-5"	
d4(E)	18	#6	3'-7"	
e(E)	64	#4	19'-2"	
e1(E)	32	#4	9'-2"	
e2(E)	48	#4	11'-6"	
e3(E)	32	#4	9'-6"	
e4(E)	40	#4	18'-2"	
e5(E)	16	#4	16'-2"	
e6(E)	16	#4	16'-4"	
e7(E)	16	#4	17'-11"	
e8(E)	16	#4	15'-2"	
m10(E)	30	#6	32'-6"	
m11(E)	92	#6	4'-8"	
m12(E)	92	#6	4'-8"	
m13(E)	12	#4	31'-7"	
m14(E)	8	#6	2'-3"	
m15(E)	4	#6	1'-10"	
m16(E)	20	#6	29'-4"	
m17(E)	8	#4	28'-8"	
m18(E)	12	#6	6'-7"	
m19(E)	8	#6	6'-2"	
m20(E)	4	#6	6'-7"	
m21(E)	4	#6	2'-3"	
s10(E)	238	#5	7'-1"	
s11(E)	238	#5	7'-5"	
s12(E)	4	#5	8'-7"	
s13(E)	4	#5	7'-11"	
u10(E)	238	#4	3'-10"	
u11(E)	4	#4	4'-0"	
v100(E)	294	#5	3'-1"	
Concrete Superstructure		Cu. Yd.	1,281.7	
Bridge Deck Grooving		Sq. Yd.	2,604	
Protective Coat		Sq. Yd.	3,885	
Reinforcement Bars, Epoxy Coated		Pound	263,330	

REVISED SHEET 5/28/2026



USER NAME =	mzellisko	DESIGNED -	MA	REVISED	5/15/2026 MZ
CHECKED -	MZ	REVIS	-		
PLOT SCALE =	2,000' / in.	DRAWN -	MA	REVISED	-
PLOT DATE =	04/24/2026	CHECKED -	MZ	REVISED	-

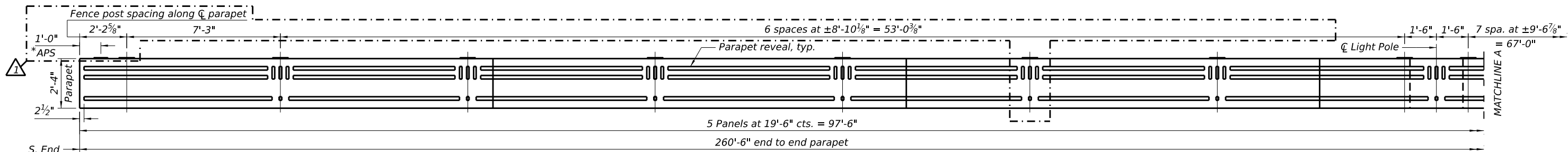
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS V
STRUCTURE NO. 016-2015

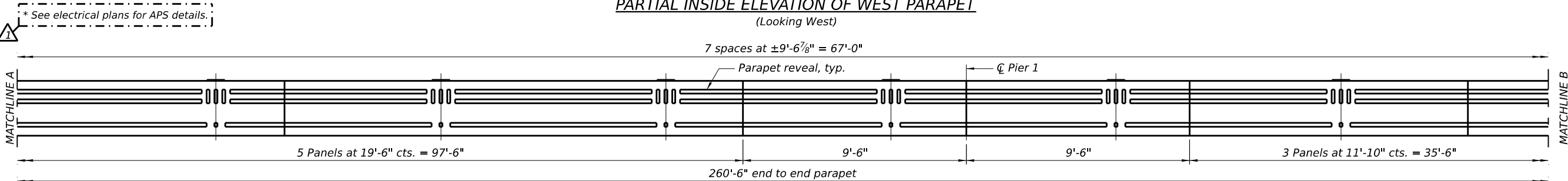
SHEET 23 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	332	192
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

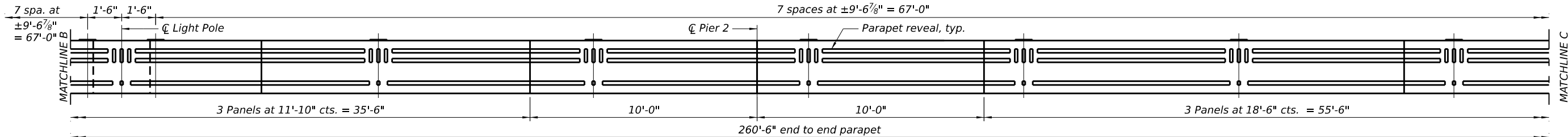
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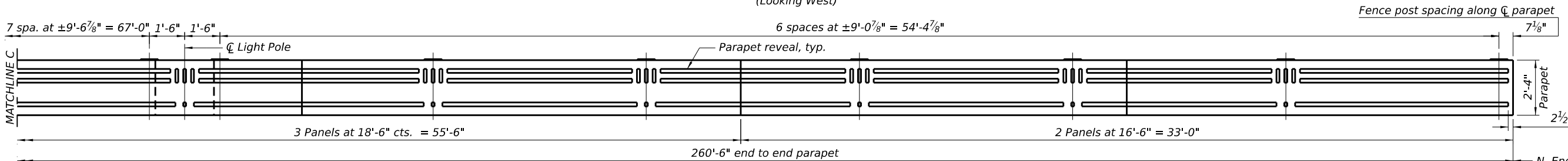
PARTIAL INSIDE ELEVATION OF WEST PARAPET
(Looking West)



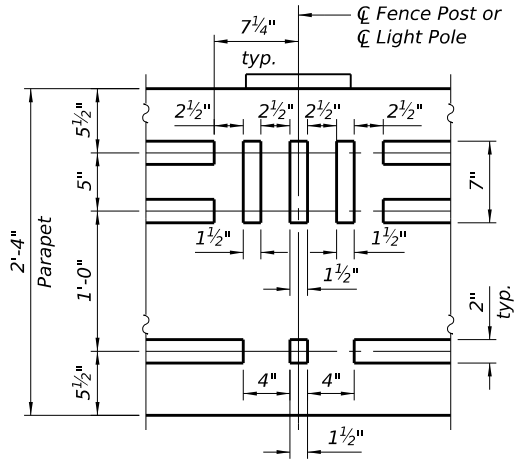
PARTIAL INSIDE ELEVATION OF WEST PARAPET
(Looking West)



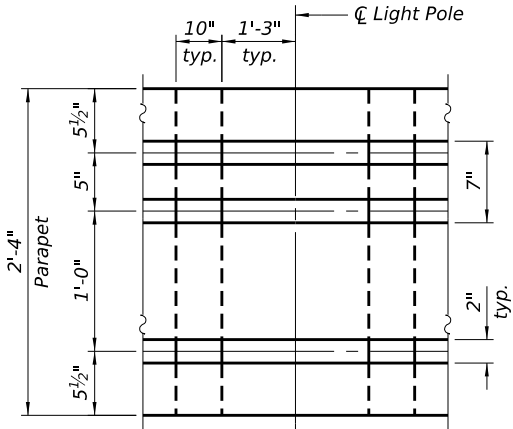
PARTIAL INSIDE ELEVATION OF WEST PARAPET
(Looking West)



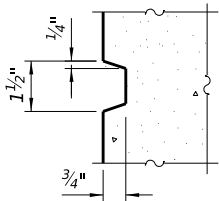
PARTIAL INSIDE ELEVATION OF WEST PARAPET
(Looking West)



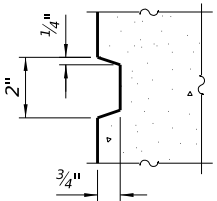
TYPICAL DETAIL
(At Light Poles, inside face parapet only)



OUTSIDE FACE PARAPET DETAIL AT LIGHT POLES
(Unfolded)



1 1/2" REVEAL DETAIL



2" REVEAL DETAIL

- NOTES:**
- Rustication details shown above shall be applied to both sides of the parapet except at light poles, see detail this sheet.
 - See sheets 19, 22, 23 of 66 for additional parapet details.
 - Cost of rustication included in Concrete Superstructure.
 - Contractor shall submit shop drawings for the rustication details to be reviewed by the Engineer.

REVISION 1 REVISED SHEET 5/28/2026



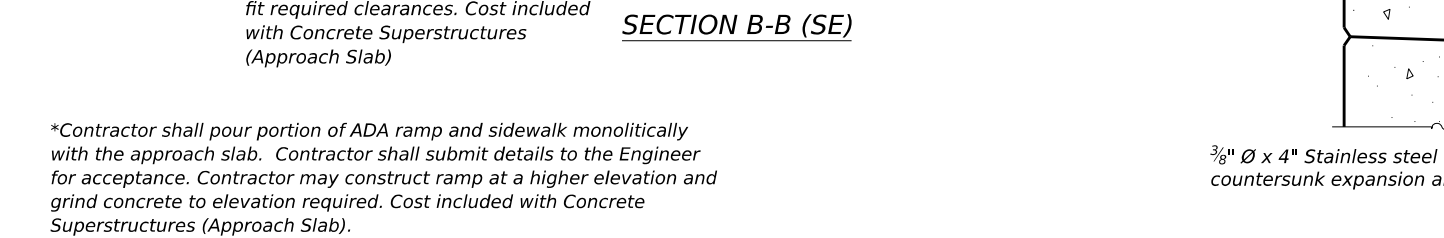
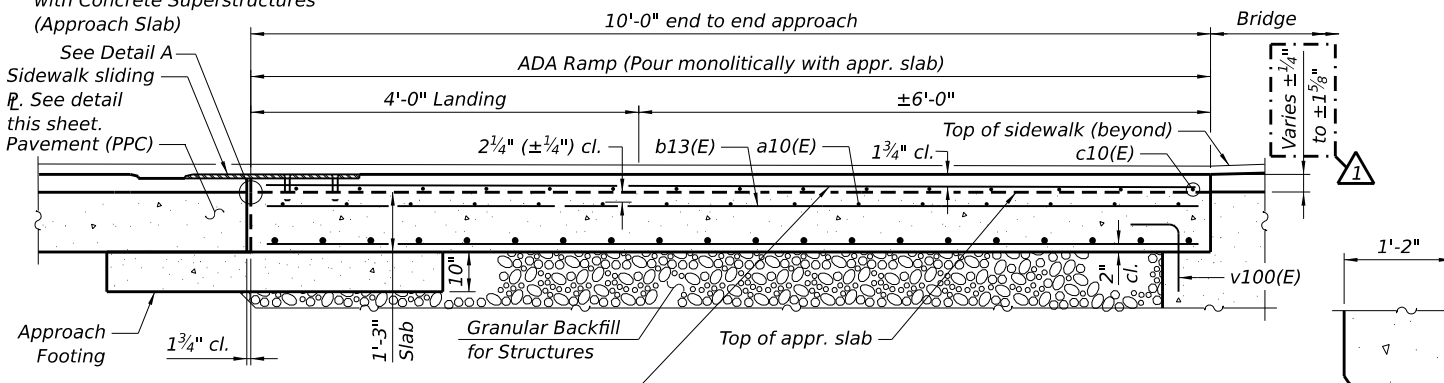
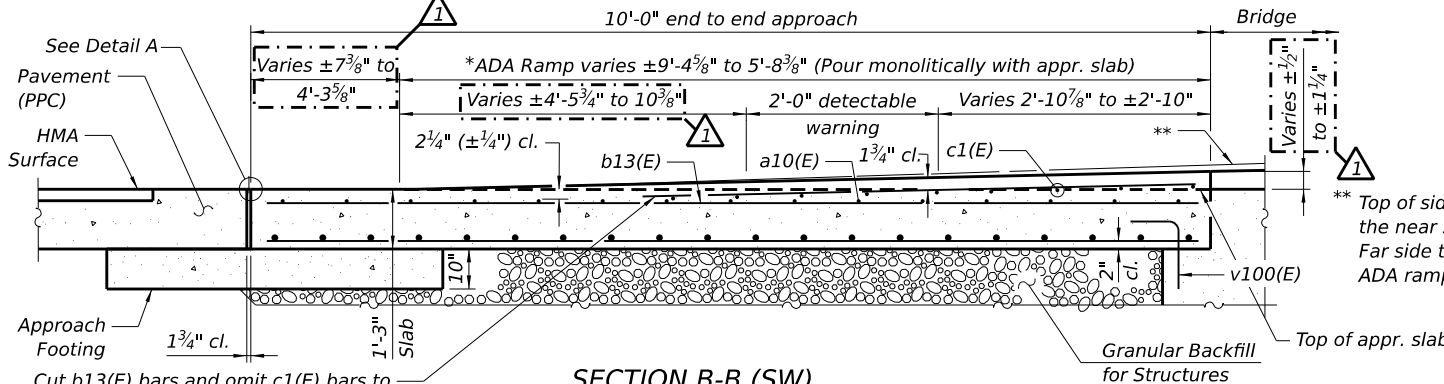
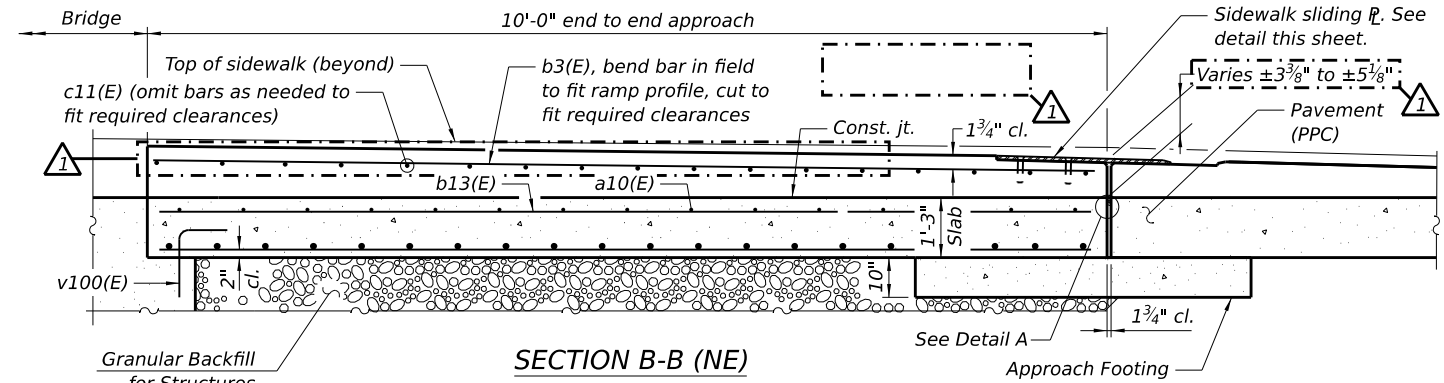
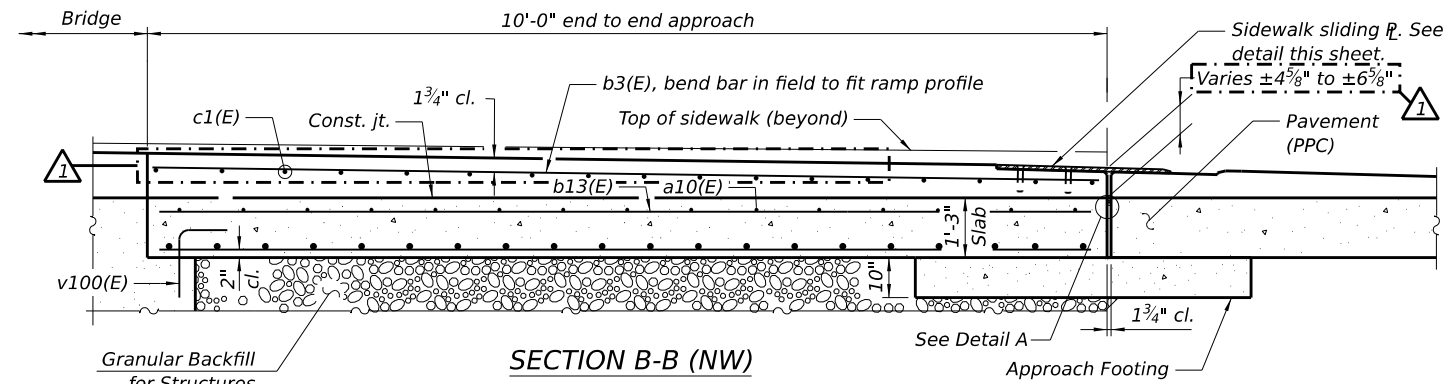
USER NAME =	mzellisko	DESIGNED -	MA	REVISED	5/15/2026 MZ
		CHECKED -	MZ	REVISED	-
PLOT SCALE =	4,800' / in.	DRAWN -	MA	REVISED	-
PLOT DATE =	04/24/2026	CHECKED -	MZ	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECORATIVE PARAPET DETAILS I
STRUCTURE NO. 016-2015

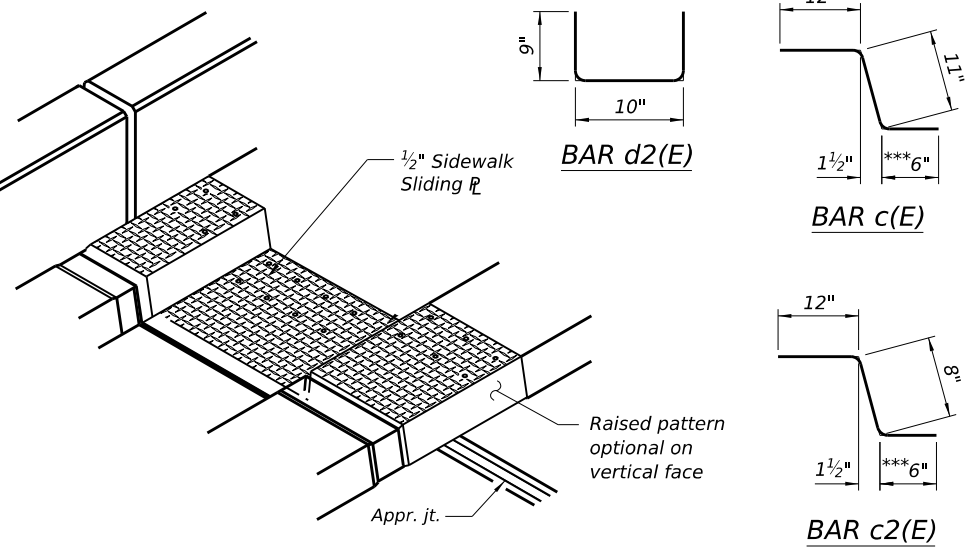
SHEET 24 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	332	193
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

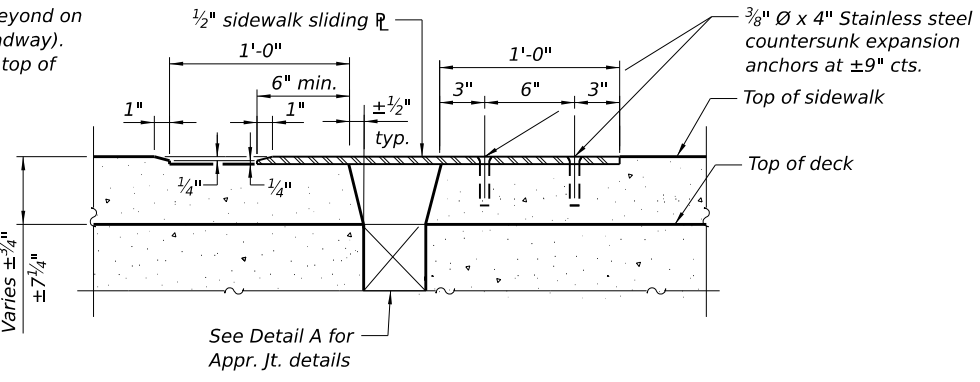


NOTES:

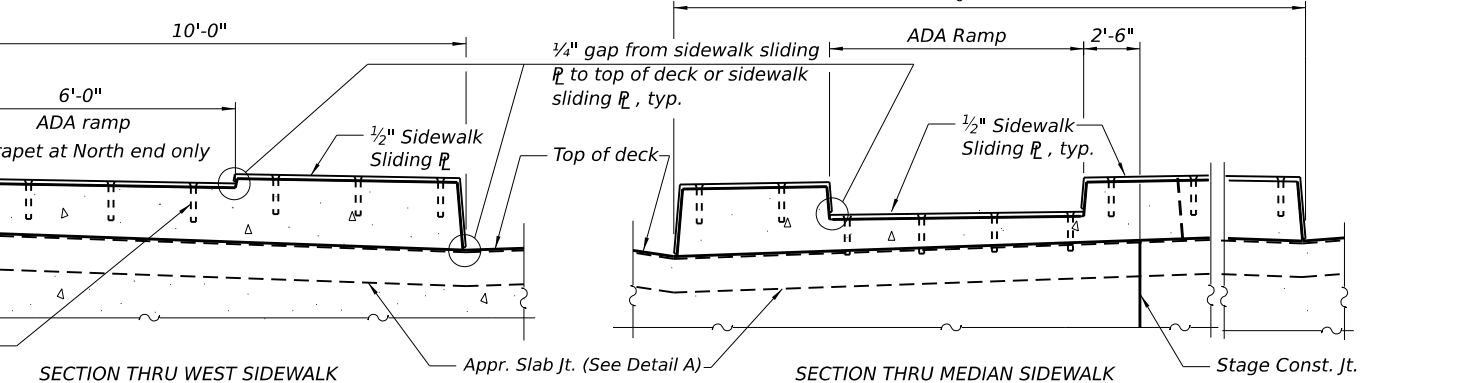
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
2. Parapet concrete shall be paid for as Concrete Superstructure.
3. Approach slab, sidewalk, median and curb shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid for as Concrete Structures.
5. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
6. Cost of excavation for approach footing included with Concrete Structures.
7. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 66.
8. For Detail A see sheet 30 of 66.
9. Cost of Sidewalk Sliding R and countersunk anchors are included with Concrete Superstructures (Approach Slab).



SIDEWALK SLIDING R - ISOMETRIC VIEW



SIDEWALK SLIDING R DETAIL

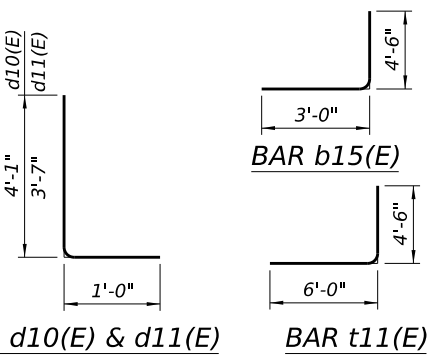


SECTION THRU WEST SIDEWALK

SECTION THRU SIDEWALK SLIDING R

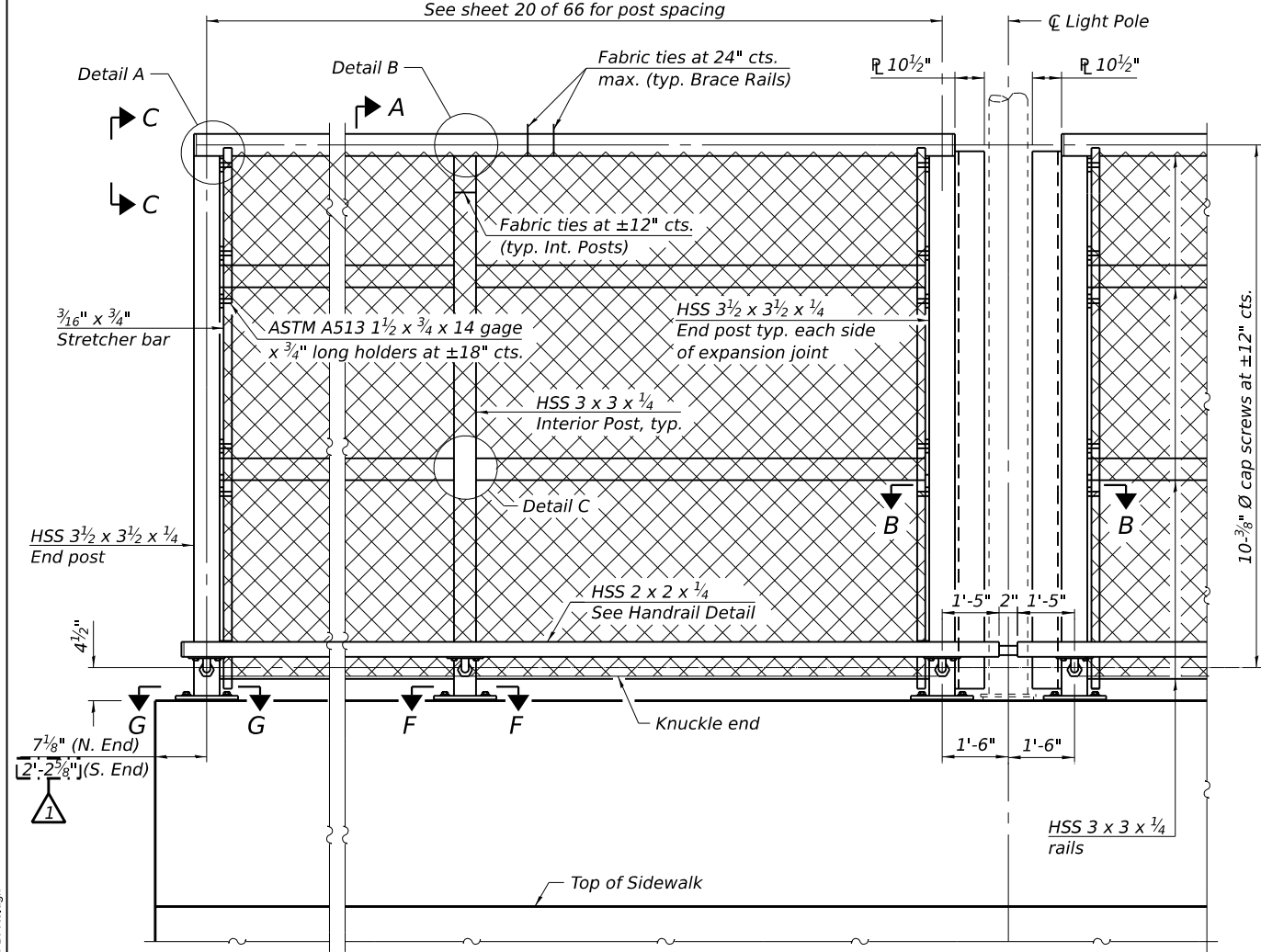
TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	128	#5	24'-9"	
a11(E)	126	#8	33'-0"	
a12(E)	64	#5	29'-0"	
a13(E)	84	#8	29'-9"	
a14(E)	10	#5	5'-1"	
a15(E)	14	#8	6'-4"	
b13(E)	518	#5	9'-8"	
b14(E)	698	#9	9'-8"	
b15(E)	2	#5	7'-6"	
b16(E)	1	#5	9'-0"	
c(E)	39	#5	2'-5"	
c1(E)	11	#5	10'-10"	
c2(E)	26	#5	2'-2"	
c10(E)	11	#5	31'-6"	
c11(E)	11	#5	23'-9"	
d2(E)	11	#5	2'-4"	
d10(E)	11	#4	5'-1"	
d11(E)	11	#6	4'-7"	
e10(E)	8	#4	9'-8"	
t10(E)	584	#4	6'-8"	
t11(E)	2	#4	10'-6"	
t12(E)	16	#4	10'-6"	
t13(E)	16	#4	8'-11"	
w10(E)	300	#5	32'-4"	
Concrete Structures			Cu. Yd.	62.8
Concrete Superstructure			Cu. Yd.	1.1
Bridge Deck Grooving			Sq. Yd.	235
Protective Coat			Sq. Yd.	327
Concrete Superstructure (Approach Slab)			Cu. Yd.	153.5
Reinforcement Bars, Epoxy Coated			Pound	64,460

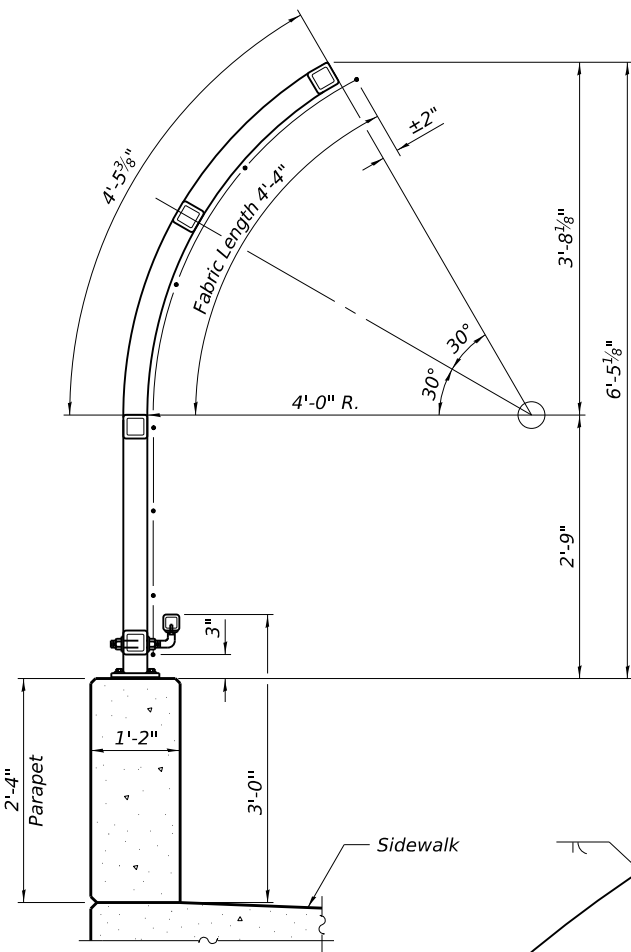


BAR d10(E) & d11(E) BAR t11(E)

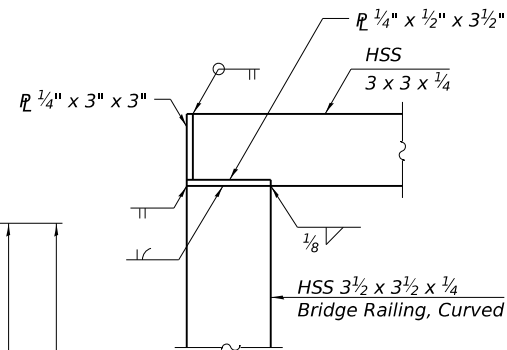
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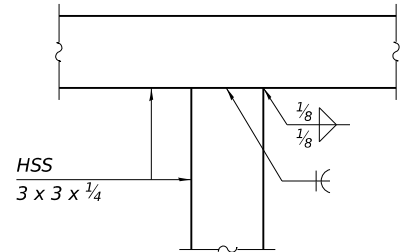
ELEVATION BRIDGE FENCE RAILING, CURVED
(Inside face)



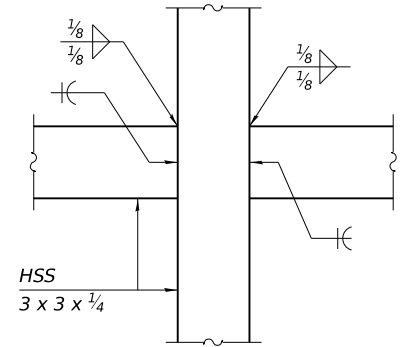
SECTION A-A



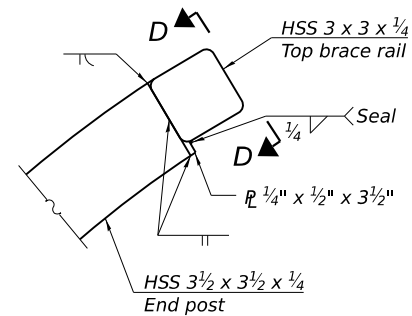
DETAIL A



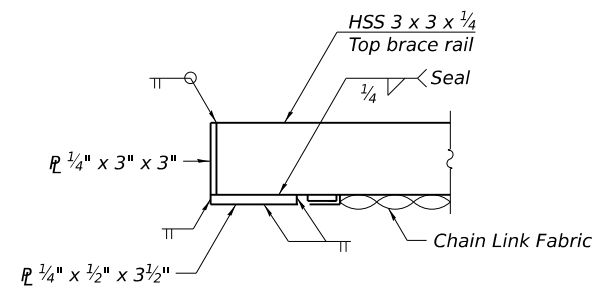
DETAIL B



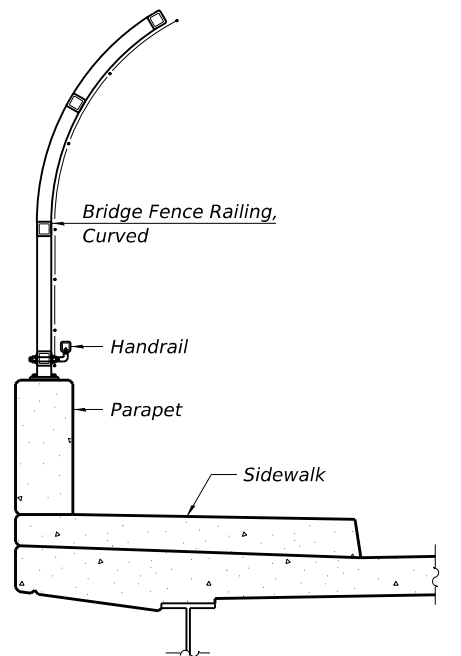
DETAIL C



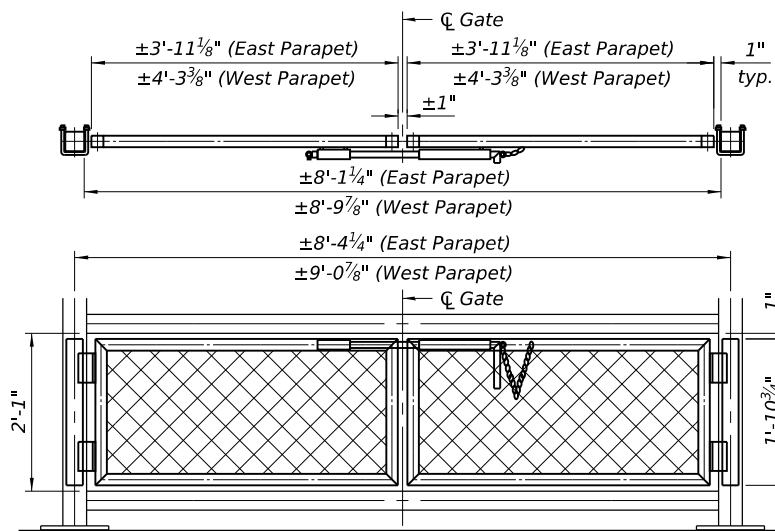
VIEW C-C



VIEW D-D



SECTION THRU DECK



CAMERA ACCESS GATE DETAIL

(2 locations)
(East Parapet $\bar{C}$ Gate at $\bar{C}$ Laramie Sta. 1519+63.82)
(West Parapet $\bar{C}$ Gate at $\bar{C}$ Laramie Sta. 1521+15.53)
(Contractor to verify in field during construction)
(Cost included in Bridge Fence Railing, Curved)

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	70
Max Post Spacing	10'-0"

Note:
See sheet 35 of 66 for Sections B-B, F-F and G-G, Handrail Detail, Bill of Material, and additional details and notes.



USER NAME =	mzellisko	DESIGNED -	MA	REVISED Δ	5/15/2026	MZ
		CHECKED -	MZ	REVISED -		
PLOT SCALE =	2,000' / in.	DRAWN -	MA	REVISED -		
PLOT DATE =	04/24/2026	CHECKED -	MZ	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

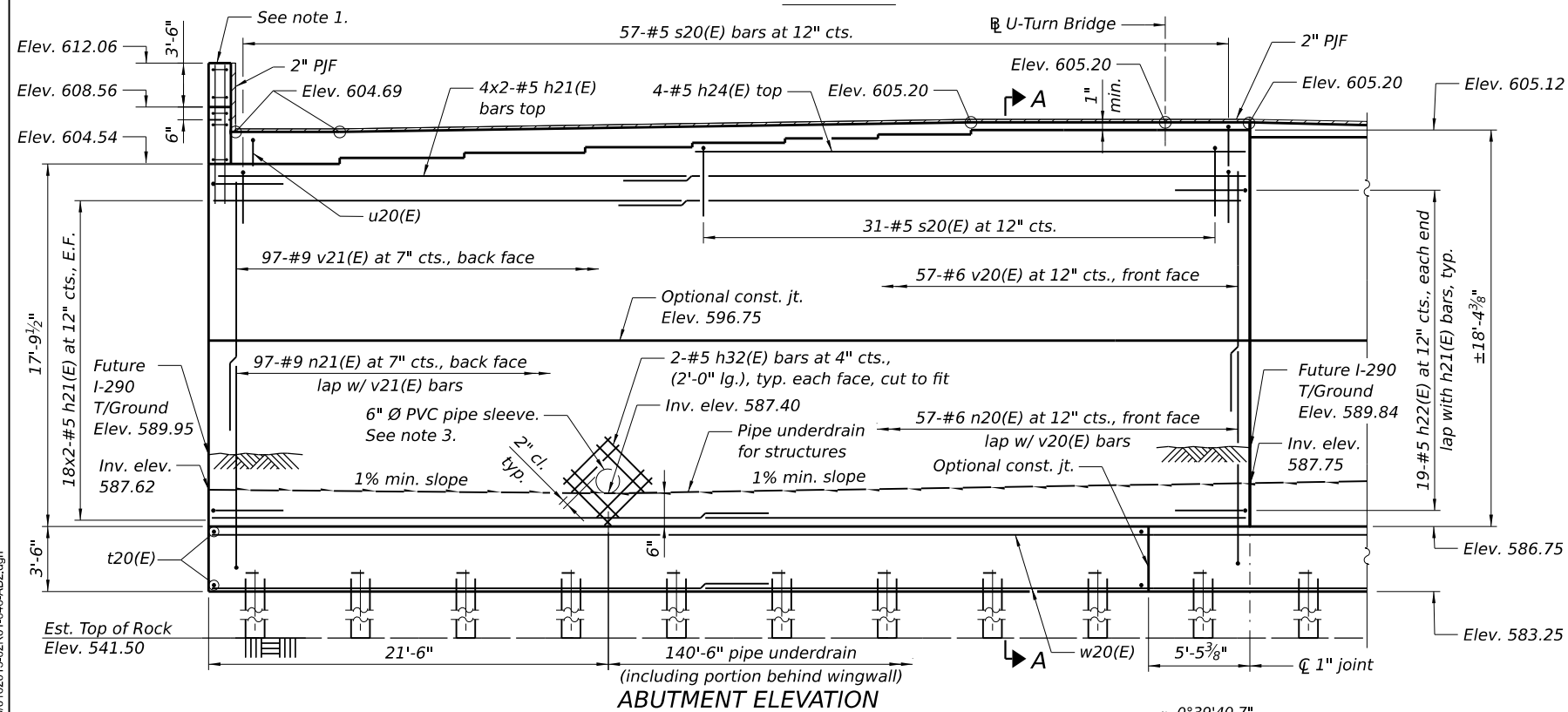
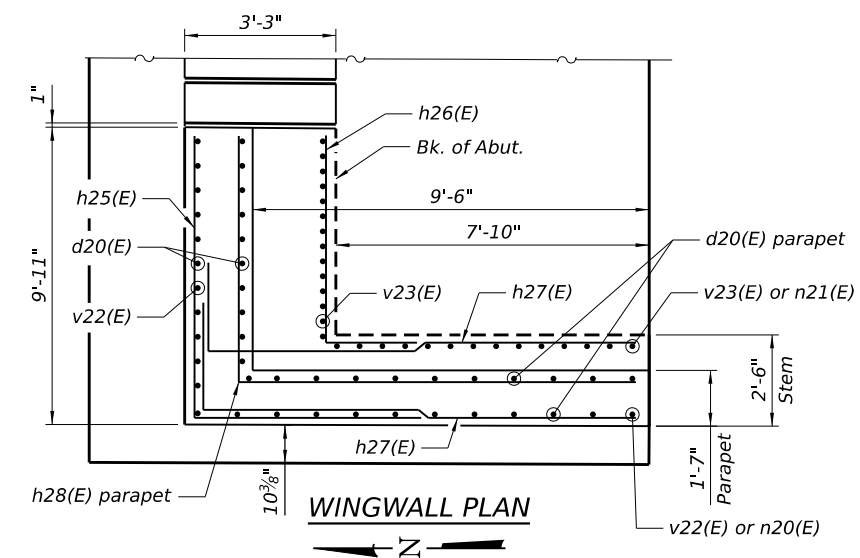
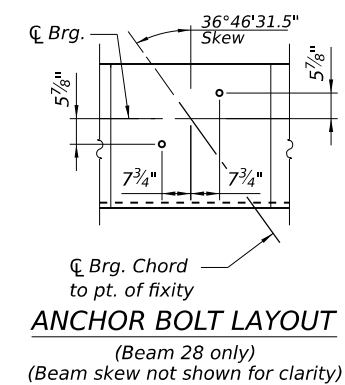
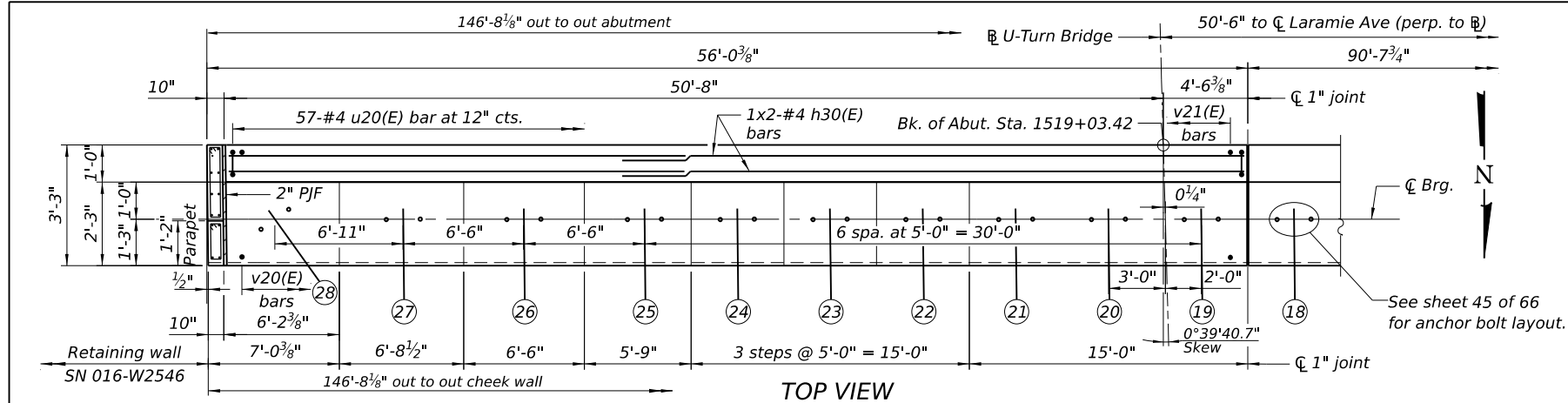
BRIDGE FENCE RAILING III
STRUCTURE NO. 016-2015

SHEET 34 OF 66 SHEETS

Δ REVISED SHEET 5/28/2026

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	332	203
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

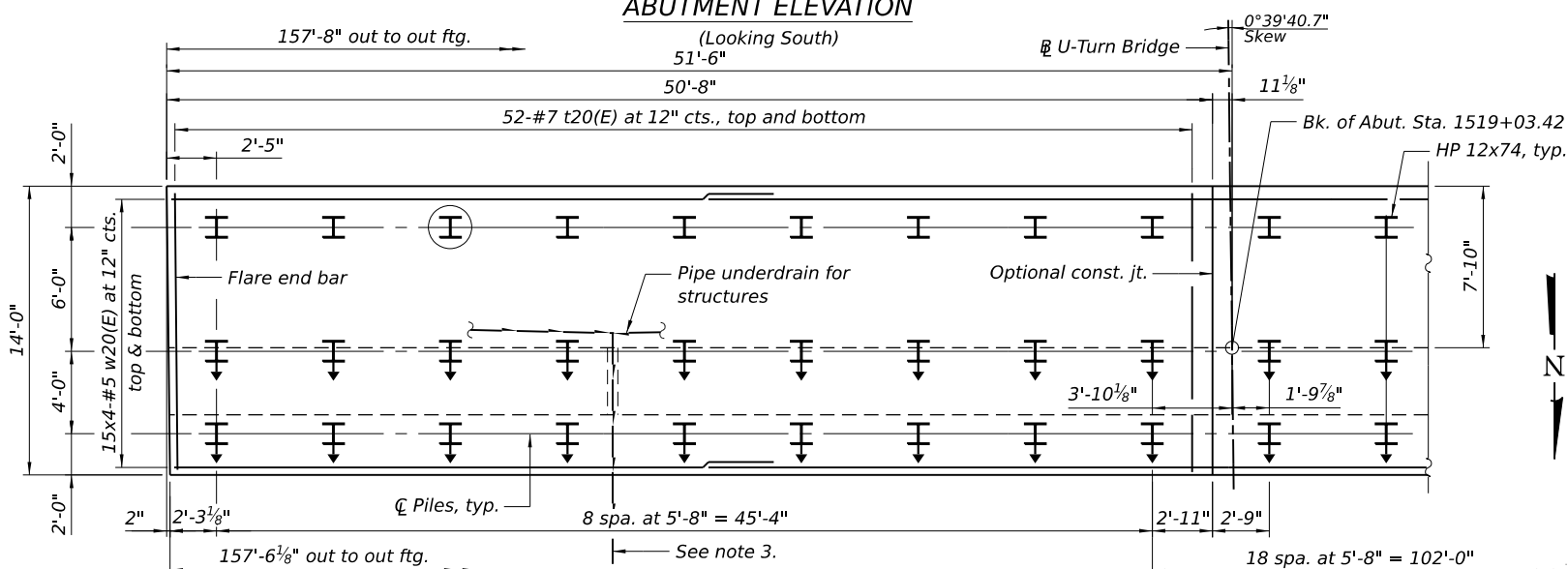
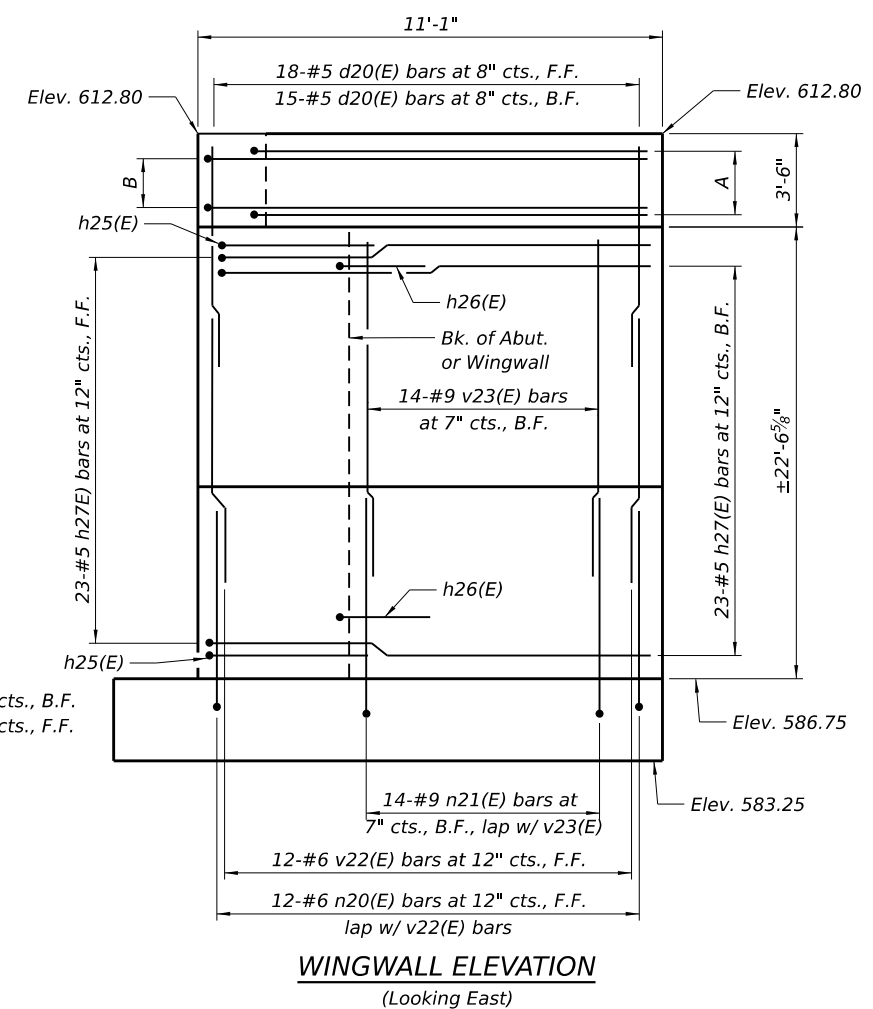




BEARING SEAT
ELEVATIONS

Beam	Elevation	Step ¹
1	604.91	1½"
2	604.79	0"
3	604.79	⅞"
4	604.86	⅞"
5	604.93	⅞"
6	605.01	⅞"
7	605.08	0"
8	605.08	1⅜"
9	605.20	0"
10	605.20	⅞"
11	605.12	⅞"
12	605.05	⅞"
13	604.97	⅞"
14	604.89	1½"
15	604.77	0"
16	604.77	1¼"
17	604.88	1¼"
18	604.99	1½"
19	605.12	0"
20	605.12	0"
21	605.12	⅞"
22	605.04	⅞"
23	604.96	⅞"
24	604.89	⅞"
25	604.81	⅞"
26	604.71	1¼"
27	604.61	1¼"
28	604.54	⅞"

A: 4-#5 h28(E) bars at 12" cts., B.F.
B: 4-#5 h27(E) bars at 12" cts., F.F.



PILE LEGEND

Ⓘ Denotes Test Pile

I Denotes battered pile

PILE DATA

Type: Steel HP 12x74 with shoes
Nominal Required Bearing: 589 kip
Factored Resistance Available: 324 kip
Estimated Length: 45 ft
No. Production Piles: 82
No. Test Piles: 2

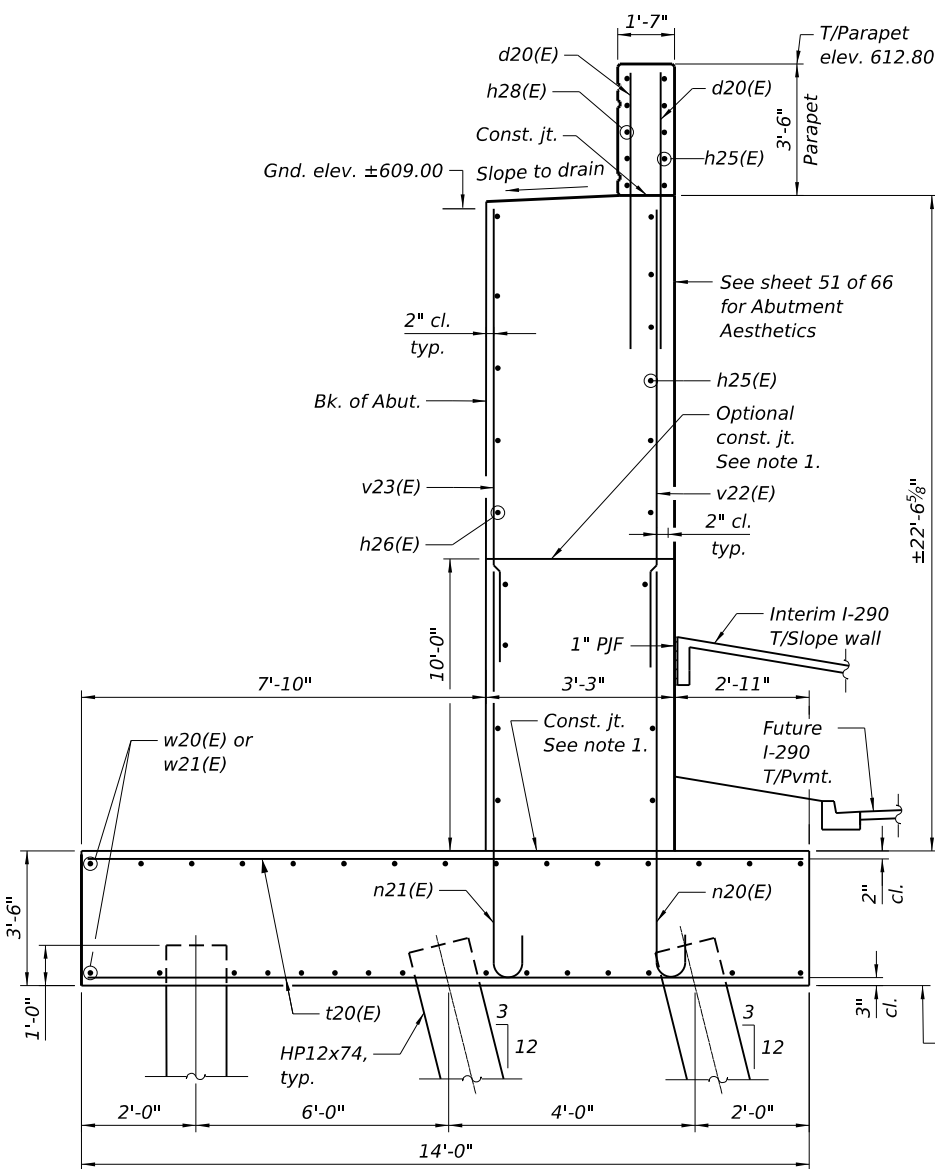
MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-2"
#6 bar = 3'-10"
#9 bar = 6'-3"

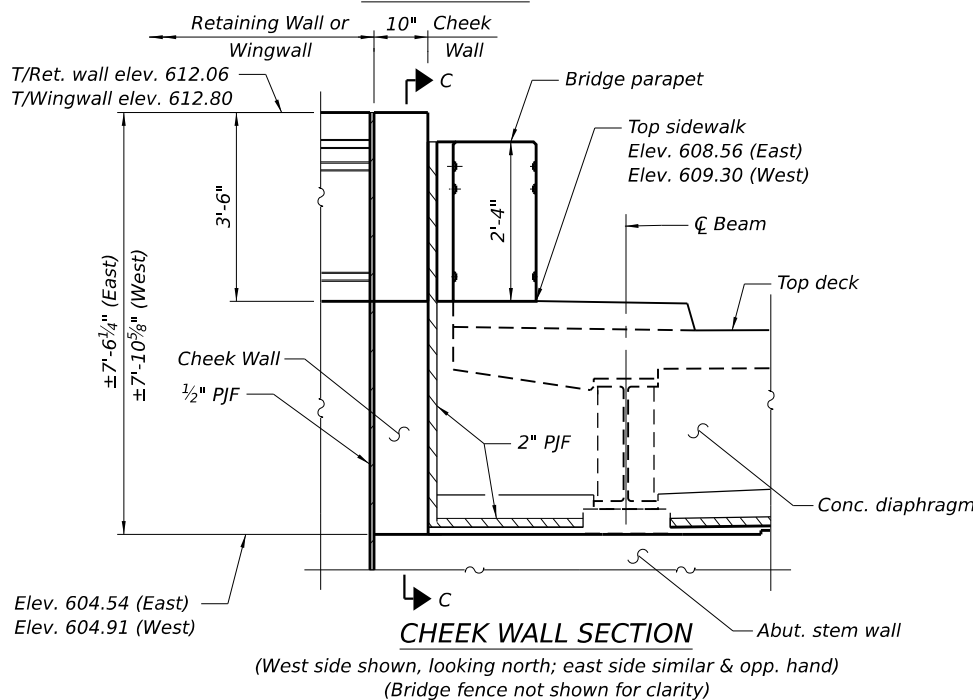
NOTES:

1. See sheet 47 of 66 for Section, cheek wall details, Bill of Material, and additional notes.
2. See sheet 4 of 66 for slope wall layout and elevations.
3. Provide 6" Ø PVC pipe sleeve for 4" Ø pipe underdrain. Extend pipe underdrain outlet 37'-0" and core 5" dia hole to existing drainage structure. Cost for this work shall be included in the cost of Pipe Underdrains for Structures (Special) 4". Underdrain to be re-routed to future drainage structure near face of abutment (by others).
4. See sheet 28 of 66 for additional bearing plan details.

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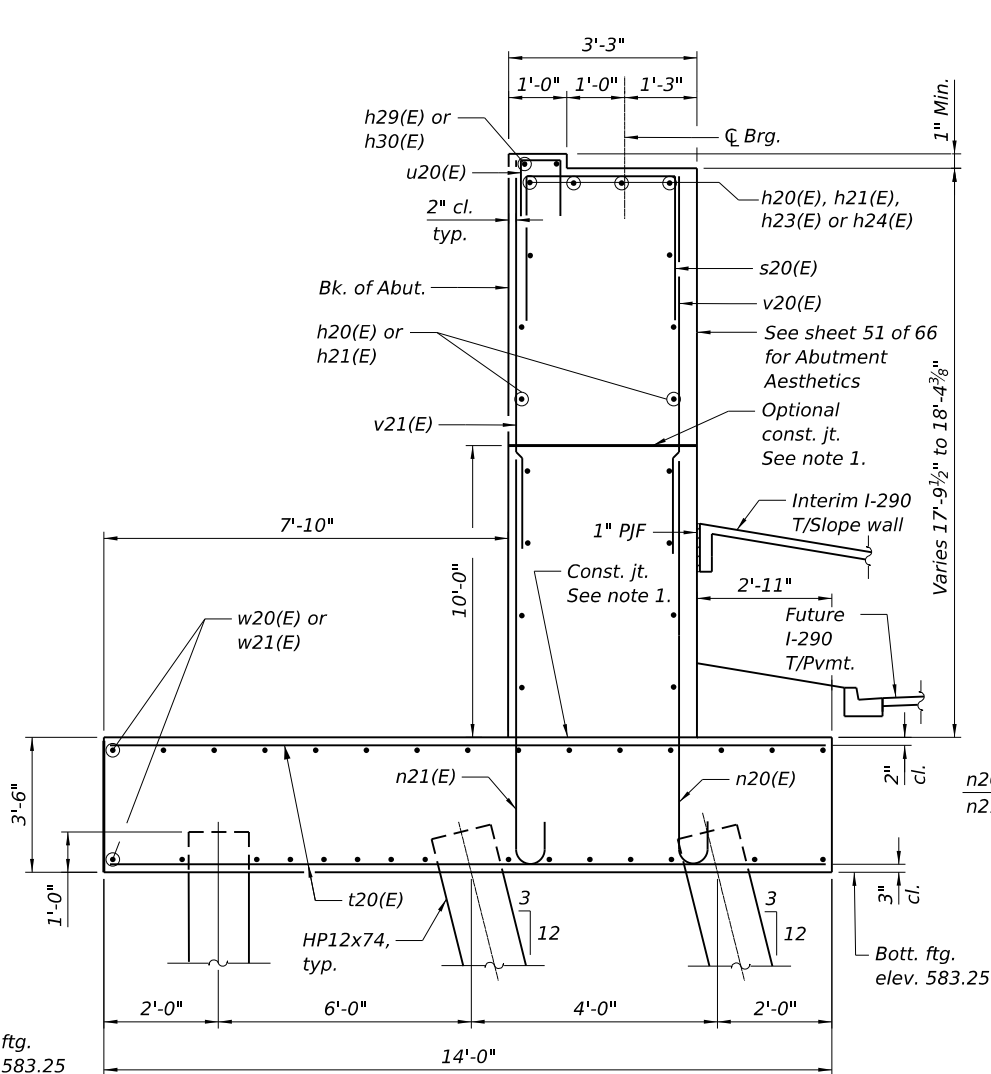


SECTION B-B

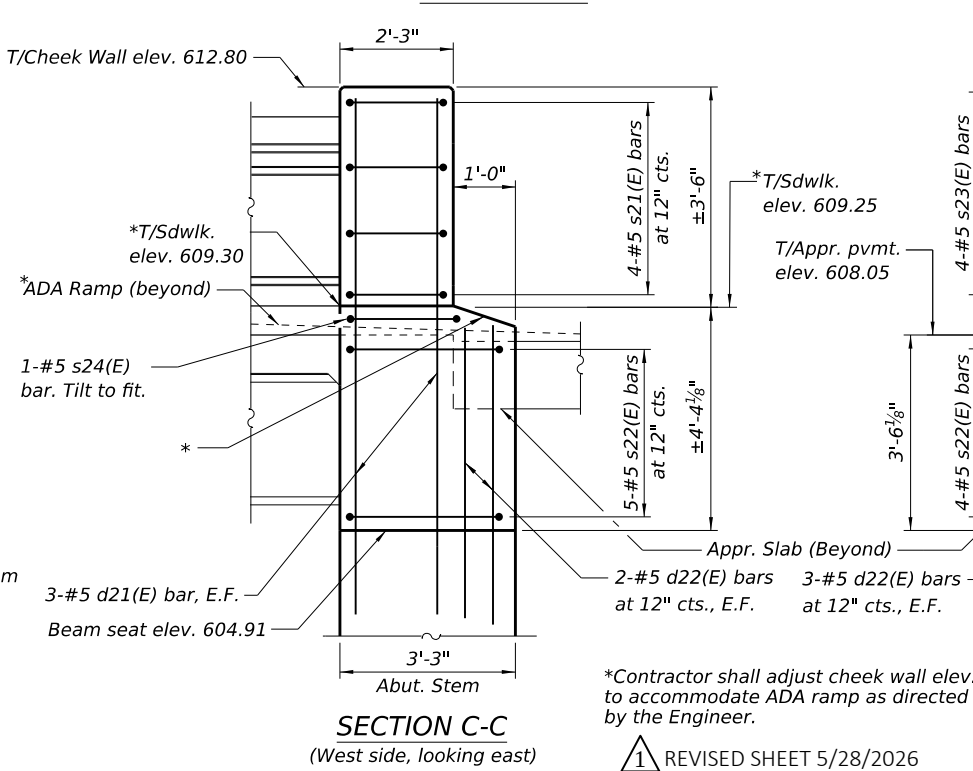


CHEEK WALL SECTION

(West side shown, looking north; east side similar & opp. hand)
(Bridge fence not shown for clarity)

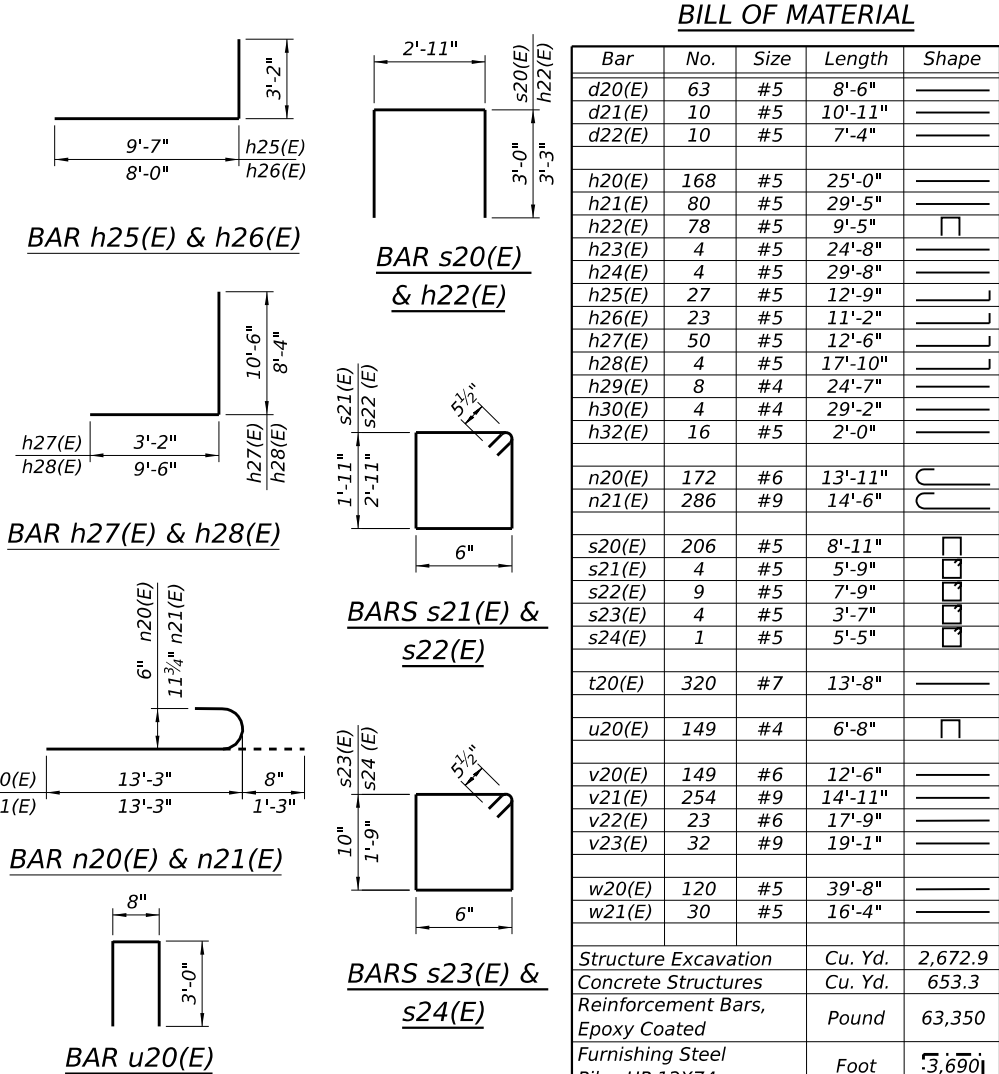


SECTION A-A



SECTION C-C

(West side, looking east)

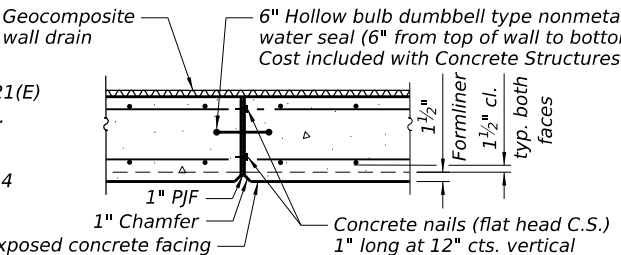


SECTION C-C

(East side, looking west)

NOTES:

- Cast steps monolithically with cap.
- Concrete surface at construction joints shall be free of laitance with surface intentionally roughened to an amplitude of 0.25 in according to Article 503.09 of the Standard Specifications.
- See sheet 2 of 66 for drainage details behind abut. and ret. wall.
- See sheet 4 of 66 for slope wall elevations.
- See sheet 46 of 66 for minimum bar lap lengths.



EXPANSION JOINT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	63	#5	8'-6"	
d21(E)	10	#5	10'-11"	
d22(E)	10	#5	7'-4"	
h20(E)	168	#5	25'-0"	
h21(E)	80	#5	29'-5"	
h22(E)	78	#5	9'-5"	
h23(E)	4	#5	24'-8"	
h24(E)	4	#5	29'-8"	
h25(E)	27	#5	12'-9"	
h26(E)	23	#5	11'-2"	
h27(E)	50	#5	12'-6"	
h28(E)	4	#5	17'-10"	
h29(E)	8	#4	24'-7"	
h30(E)	4	#4	29'-2"	
h32(E)	16	#5	2'-0"	
n20(E)	172	#6	13'-11"	
n21(E)	286	#9	14'-6"	
s20(E)	206	#5	8'-11"	
s21(E)	4	#5	5'-9"	
s22(E)	9	#5	7'-9"	
s23(E)	4	#5	3'-7"	
s24(E)	1	#5	5'-5"	
t20(E)	320	#7	13'-8"	
u20(E)	149	#4	6'-8"	
v20(E)	149	#6	12'-6"	
v21(E)	254	#9	14'-11"	
v22(E)	23	#6	17'-9"	
v23(E)	32	#9	19'-1"	
w20(E)	120	#5	39'-8"	
w21(E)	30	#5	16'-4"	
Structure Excavation			Cu. Yd.	2,672.9
Concrete Structures			Cu. Yd.	653.3
Reinforcement Bars, Epoxy Coated			Pound	63,350
Furnishing Steel Piles HP 12X74			Foot	3,690
Driving Piles			Foot	3,690
Test Pile Steel HP 12X74			Each	2
Pile Shoes			Each	84
Granular Backfill for Structures			Cu. Yd.	1,631.0
Concrete Sealer			Sq. Ft.	3,268
Pipe Underdrains for Structures 4"			Foot	162
Pipe Underdrains for Structures (Special) 4"			Foot	37



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CHECKED -	RZ	REVISOR -				
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PLOT DATE =	04/24/2026	CHECKED -	DF	REVISED -		

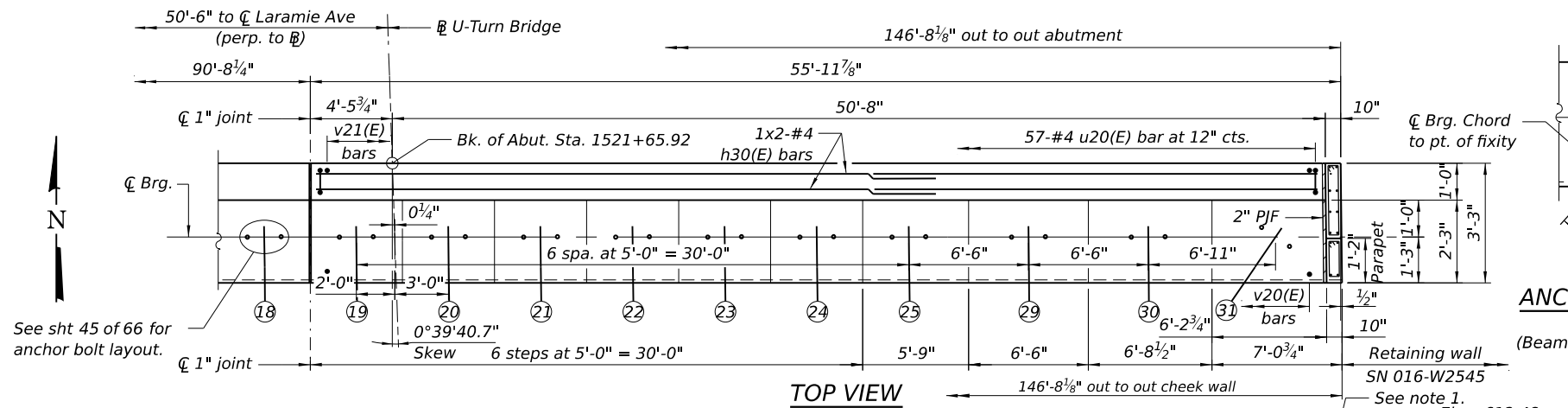
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 016-2015

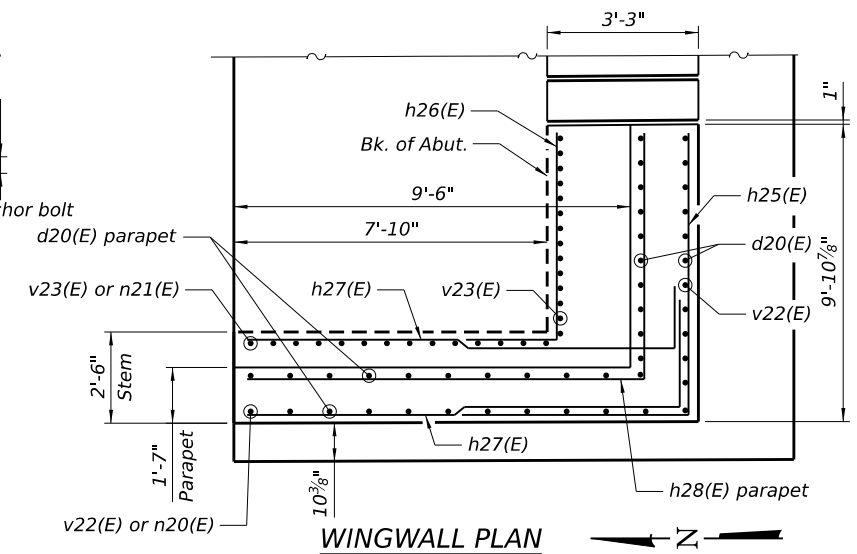
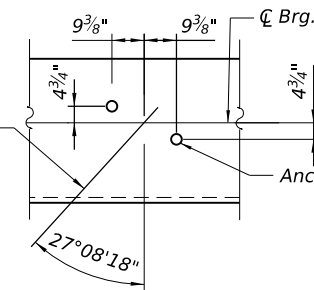
SHEET 47 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	330	216
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

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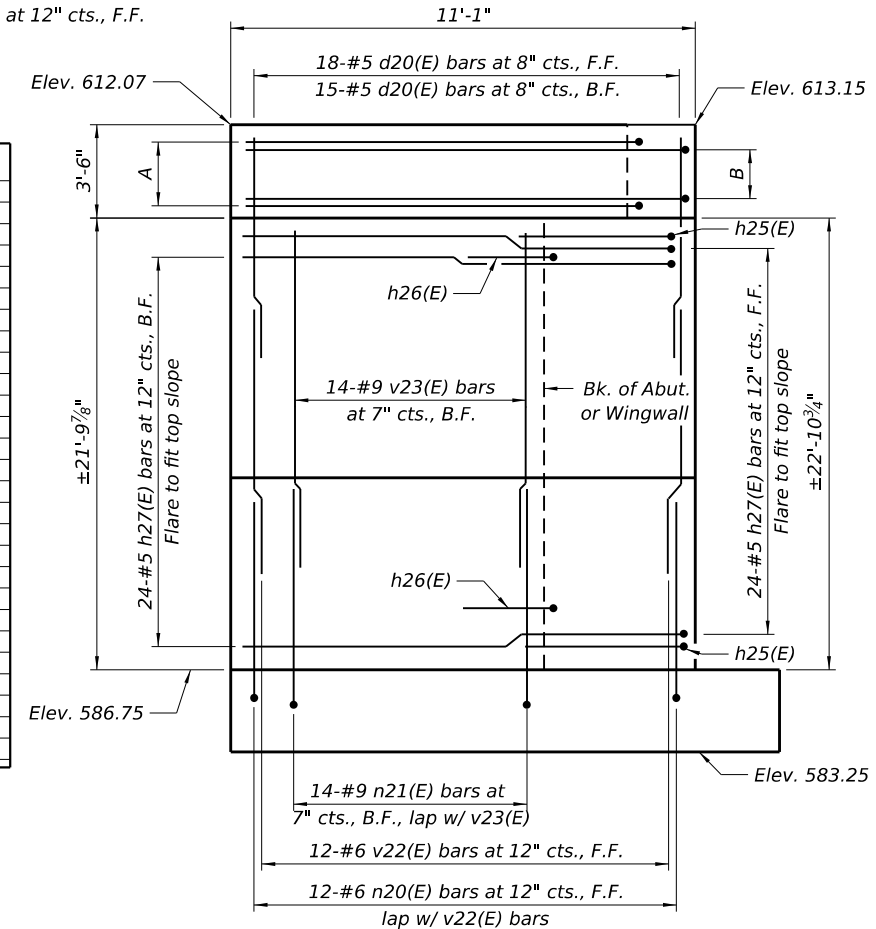
ANCHOR BOLT LAYOUT
(Beam 31 only)
(Beam skew not shown for clarity)



A: 4-#5 h28(E) bars at 12" cts., B.F.
B: 4-#5 h27(E) bars at 12" cts., F.F.

BEARING SEAT ELEVATIONS

Beam	Elevation	Step
1	605.25	1 1/2"
2	605.13	0"
3	605.13	7/8"
4	605.21	7/8"
5	605.28	7/8"
6	605.36	7/8"
7	605.44	7/8"
8	605.51	0"
9	605.51	0"
10	605.51	1 1/4"
11	605.41	0"
12	605.41	7/8"
13	605.34	7/8"
14	605.27	7/8"
15	605.15	1 3/8"
16	605.15	0"
17	605.26	1 3/8"
18	605.38	1 3/8"
19	605.52	1 3/4"
20	605.58	7/8"
21	605.51	7/8"
22	605.44	7/8"
23	605.36	7/8"
24	605.29	7/8"
25	605.22	1 1/8"
29	605.12	1 1/8"
30	605.02	3/4"
31	604.96	3/4"



WINGWALL ELEVATION
(Looking East)

PILE LEGEND

⊕ Denotes Test Pile

⊕ Denotes battered pile

PILE DATA

Type: Steel HP 12x74 with shoes
Nominal Required Bearing: 589 kip
Factored Resistance Available: 324 kip
Estimated Length: 50 ft
No. Production Piles: 82
No. Test Piles: 2

MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-2"
#6 bar = 3'-10"
#9 bar = 6'-3"

NOTES:

- See sheet 47 of 66 for Section, cheek wall details, Bill of Material, and additional notes.
- See sheet 4 of 66 for slope wall layout and elevations.
- Provide 6" Ø PVC pipe sleeve for 4" Ø pipe underdrain. Extend pipe underdrain outlet 29'-0" and core 5" dia hole to existing drainage structure. Cost for this work shall be included in the cost of Pipe Underdrains for Structures (Special) 4". Underdrain to be re-routed to future drainage structure near face of abutment (by others).
- See sheet 28 of 66 for additional bearing plan details.

REVISED SHEET 5/28/2026



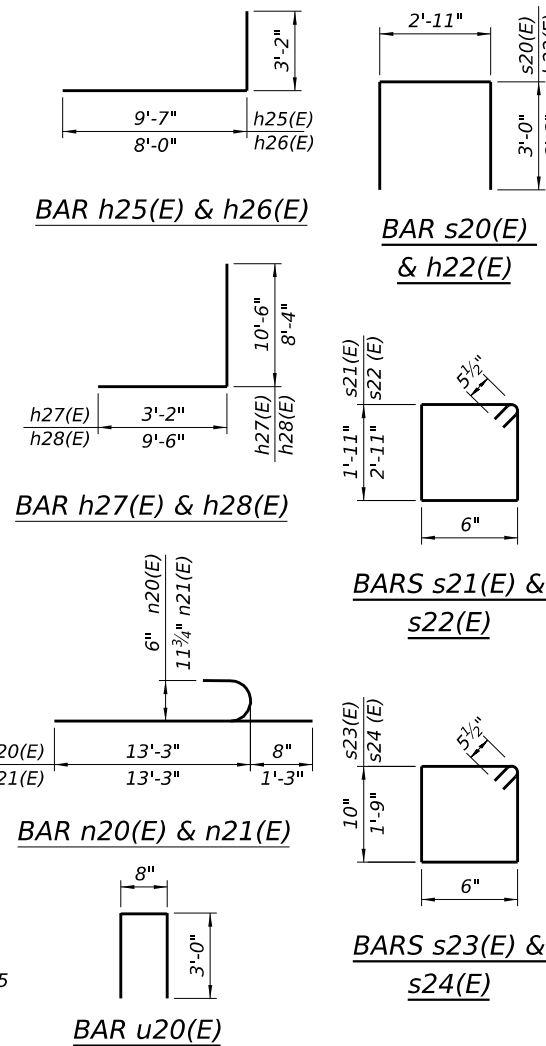
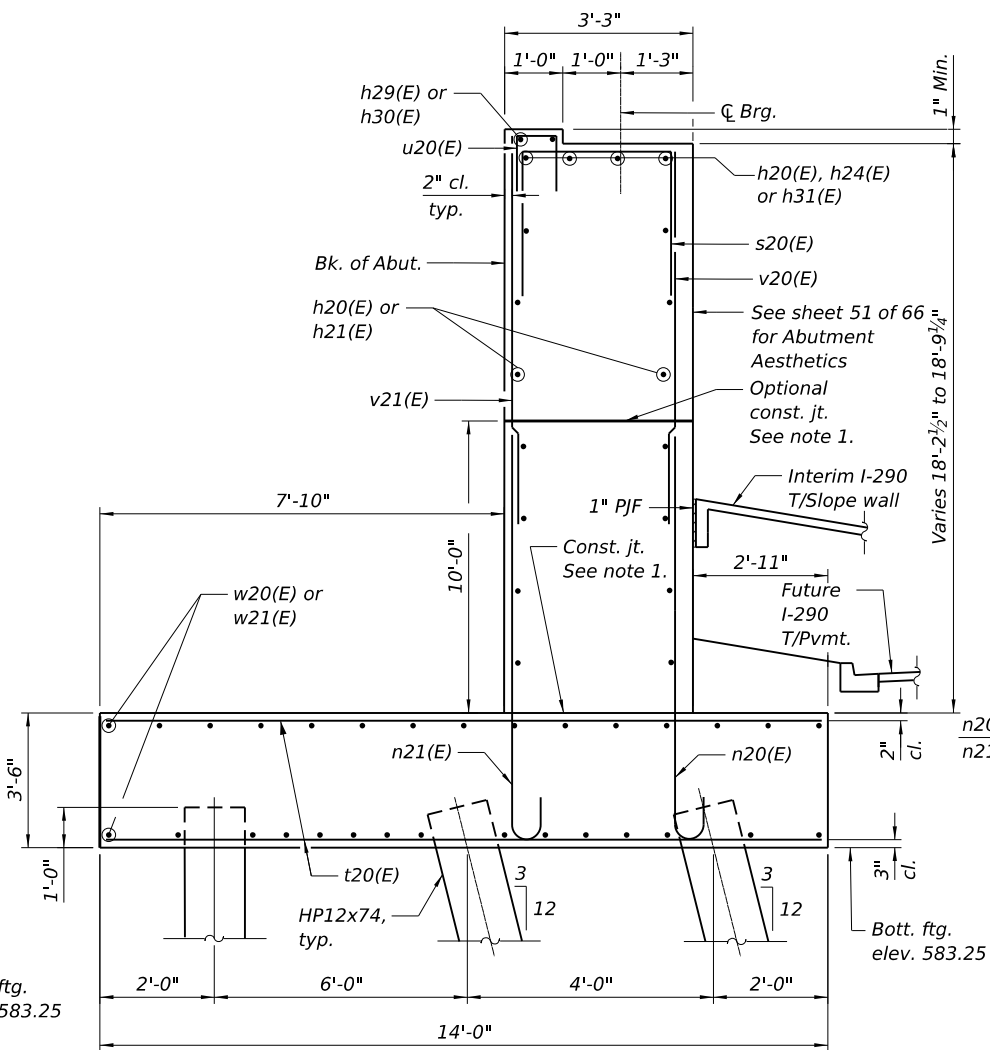
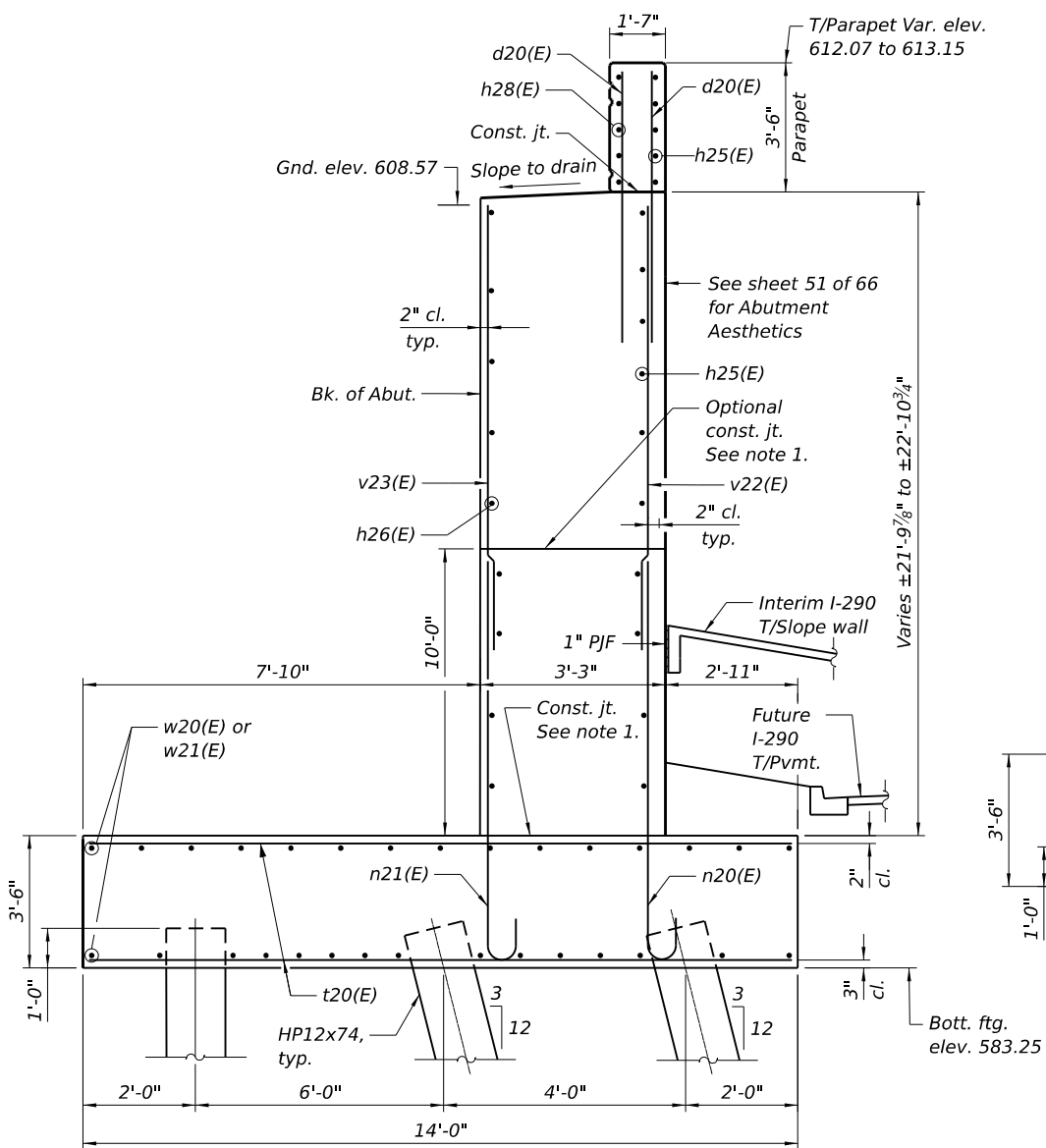
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PLOT SCALE = 9,000' / in.	CHECKED - RZ	REVISED -
PLOT DATE = 04/24/2026	DRAWN - AB	REVISED -
	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT PLAN AND ELEVATIONS II
STRUCTURE NO. 016-2015

SHEET 49 OF 66 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	330	218
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	63	#5	8'-6"	_____
d21(E)	10	#5	10'-11"	_____
d22(E)	10	#5	7'-4"	_____
h20(E)	168	#5	25'-0"	_____
h21(E)	80	#5	29'-5"	_____
h22(E)	78	#5	9'-5"	_____
h24(E)	4	#5	29'-8"	_____
h25(E)	28	#5	12'-9"	_____
h26(E)	24	#5	11'-2"	_____
h27(E)	52	#5	12'-6"	_____
h28(E)	4	#5	17'-10"	_____
h29(E)	8	#4	24'-7"	_____
h30(E)	4	#4	29'-2"	_____
h31(E)	4	#5	14'-8"	_____
h32(E)	16	#5	2'-0"	_____

$n20(E)$	172	#6	13'-11"	
$n21(E)$	286	#9	14'-6"	

$s_{20}(E)$	206	#5	8'-11"	☐
$s_{21}(E)$	4	#5	5'-9"	☐
$s_{22}(E)$	9	#5	7'-9"	☐
$s_{23}(E)$	4	#5	3'-7"	☐
$s_{24}(E)$	1	#5	5'-5"	☐

t20(E)	320	#7	13'-8"	—
--------	-----	----	--------	---

u20(E)	149	#4	6'-8"	□
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v20(E)	149	#6	12'-6"	—
v31(E)	254	#0	14'-11"	—

v22(E)	23	#6	16'-8"	_____
v23(F)	32	#9	18'-0"	_____

w20(E)	120	#5	39'-8"	_____
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W21(L)	50	#3	10-4	

Concrete Structures	Cu. Yd.	662.2
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Epoxy Coated	Pound	63,210
Forming Steel		

Piles HP 12X74	Foot	-4,100
Driving Piles	Foot	-4,100

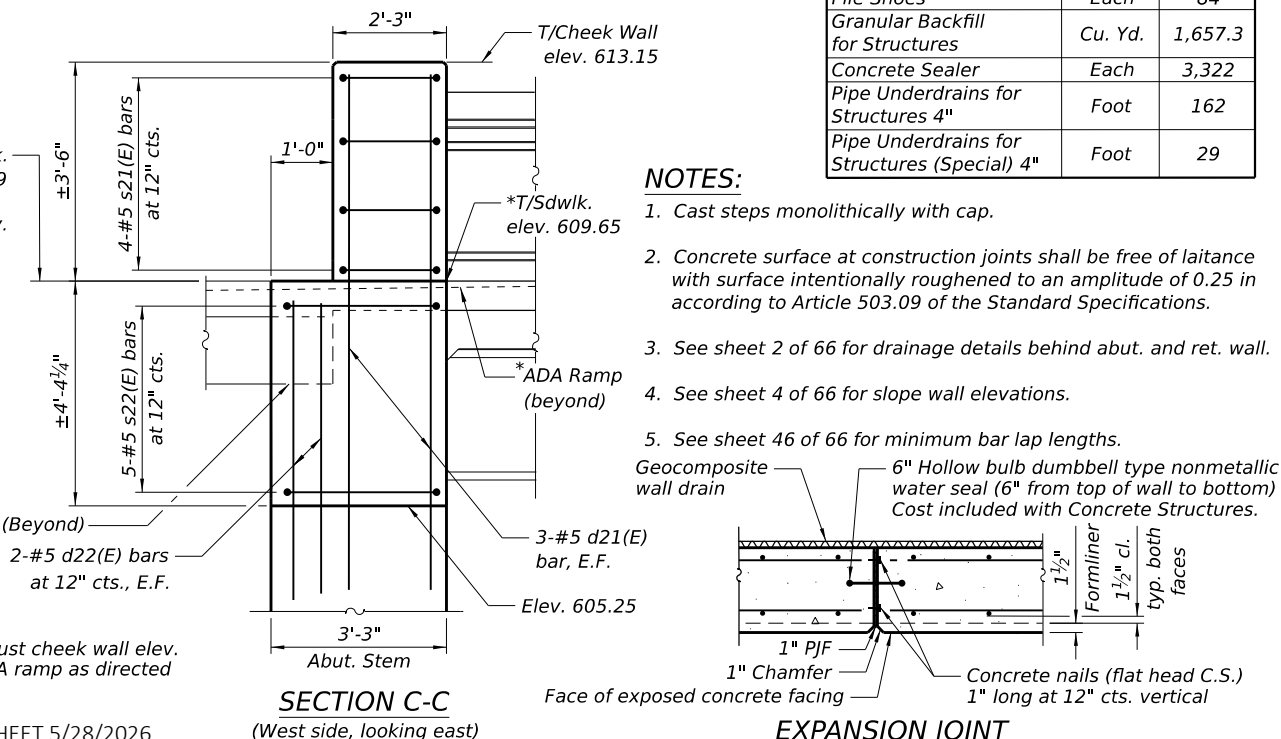
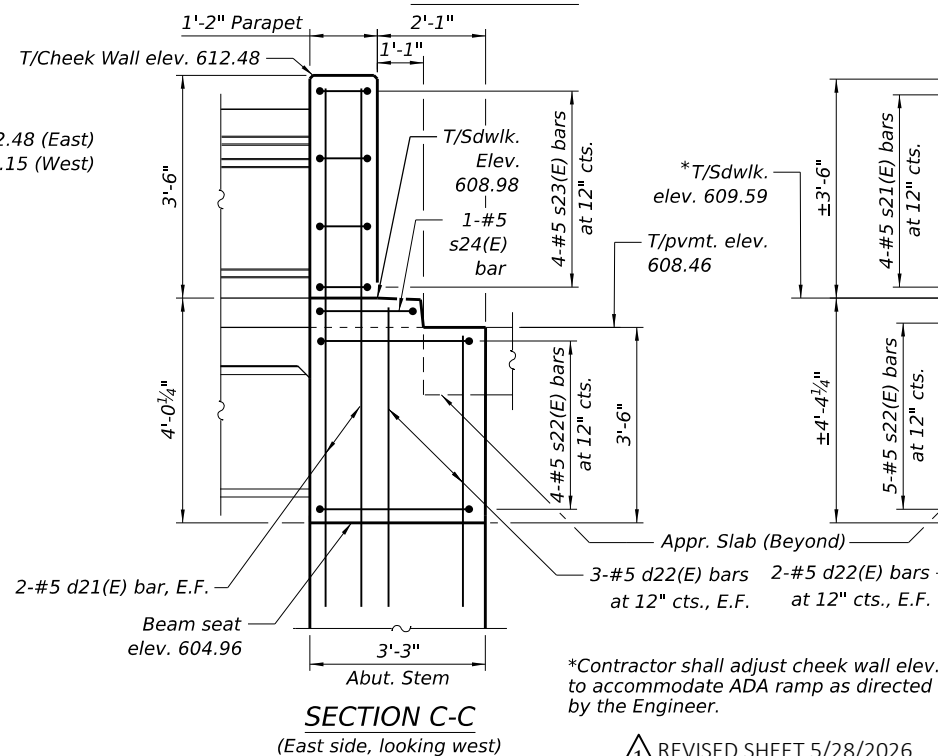
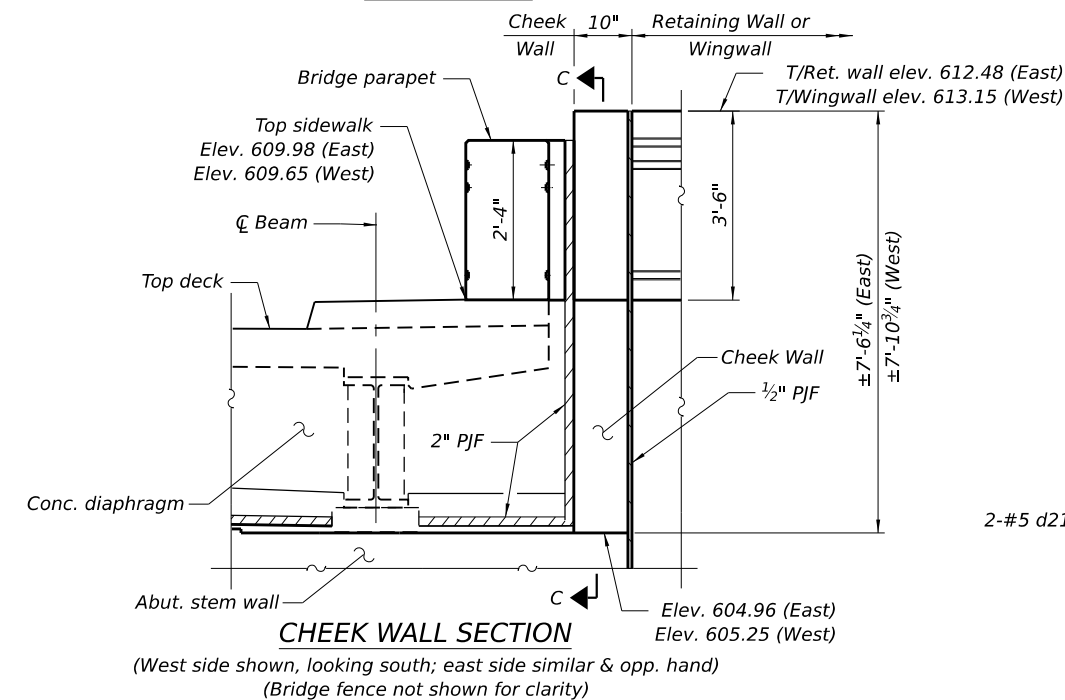
Test Pile Steel HP 12X74	Each	2
Pile Shoes	Each	84

Granular Backfill for Structures	Cu. Yd.	1,657.3
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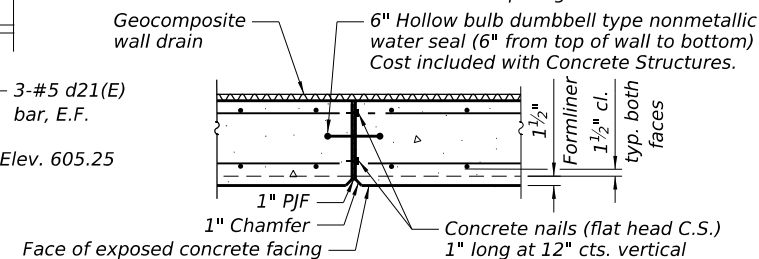
Concrete Sealer	Each	3,322
Pipe Underdrains for	Each	1,332

Structures 4		
Pipe Underdrains for	Feet	20

Structures (Special) 4		
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NOTES:



Bench Mark: BM 741: Aluminum disk on top of retaining wall at NW Corner of Laramie Bridge. Elev. 612.20.

Existing Structure: None

One lane of Flournoy St. traffic will be maintained using stage construction. Traffic along I-290 will be maintained utilizing stage construction.

No Salvage

SEQUENCE OF CONSTRUCTION

1. Locate existing utilities. Contractor to coordinate with utility owners as necessary prior to beginning the work.
2. Remove part of the TSRS required for the Laramie Ave. Bridge (SN 016-2015) construction. The intent is for the abutment to be constructed before this wall. Contractor shall provide supports for the timber lagging on the side of the abutment. Cost shall be included with Untreated Timber Lagging. See Bridge Plans for TSRS and Abutment details.
3. Install driven soldier piles and TSRS.
4. Remove only earth as necessary to install timber lagging to the level of Permanent Ground Anchors.
5. Install Permanent Ground Anchors. 9'-0" maximum excavation height without anchors.
6. Complete remaining earth excavation.
7. Install concrete facing.
8. Backfill in front of wall to proposed finished grade for interim condition.

DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

DESIGN STRESSES

FIELD UNITS

$f'c = 4,000$ psi (Parapet)
 $f'c = 3,500$ psi (Wall Facing)
 $fy = 60,000$ psi (Reinforcement)
 $fy = 50,000$ psi (M270 Grade 50)

LEGEND

- Exist. Storm Sewer
- Exist. Water Main
- Exist. Electric
- Exist. Telephone
- Exist. Fence
- Prop. Storm Sewer (Interim)
- Soil Boring Location
- Exist. Manhole
- Exist. Light Pole
- Exist. Sign
- Exist. Drainage Structure
- Prop. Catch Basin (Future)
- Exist. Vegetation

NOTES:

1. Wall stations are measured from C Flournoy St. unless noted otherwise. All offsets are measured to the front face of retaining wall.
2. F.F. denotes Front Face.
B.F. denotes Back Face.
 C denotes Construction Joint.
 E denotes Expansion Joint.
(CDWM) denotes City of Chicago Department of Water Management.
3. Prop. Light Pole mounted on Concrete Parapet at Sta. 4713+16.36 and Offset 41.49' Rt.

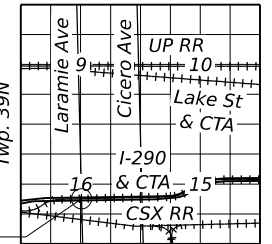
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures



Michael M. Zelisko
SIGNATURE:

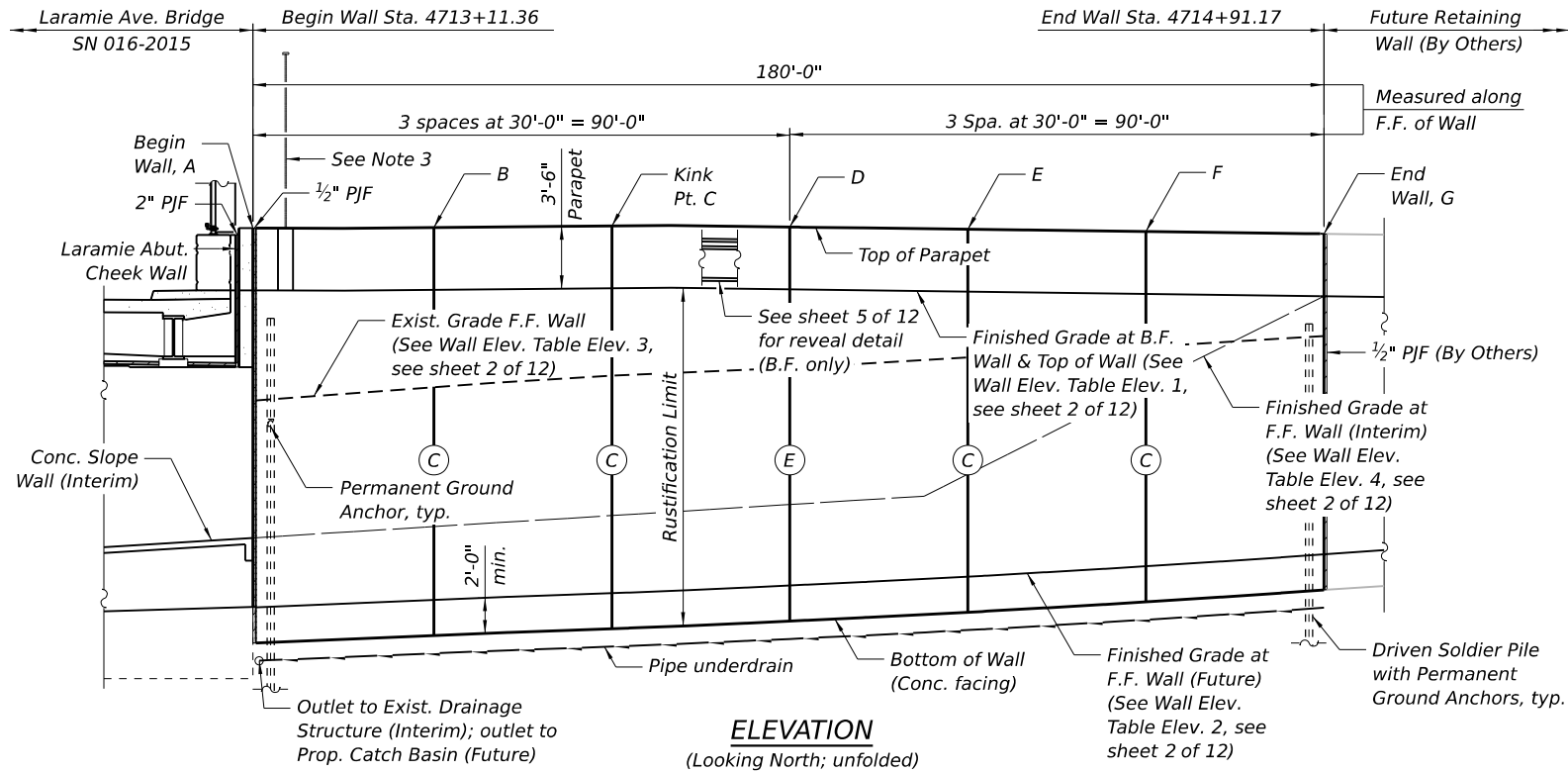
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EXPIRES: November 30, 2026
SHEETS:

Range 13E, 3 P.M.

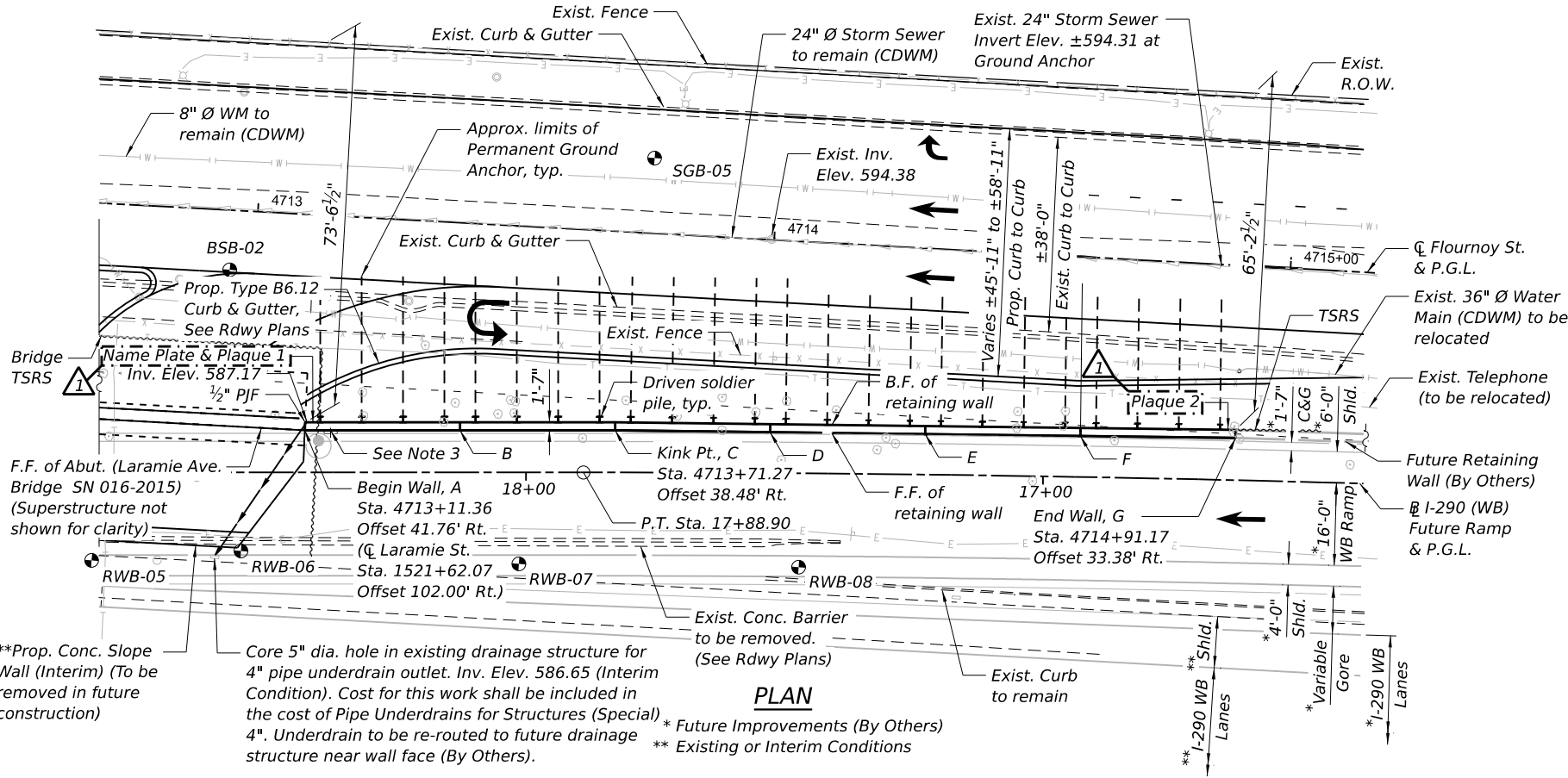


LOCATION SKETCH

GENERAL PLAN AND ELEVATION
RETAINING WALL ALONG FLOURNOY ST.
F.A.I. RTE. 290 SECTION 22 STRUCTURE 1
COOK COUNTY
STA. 4713+11.36 TO STA. 4714+91.17
S.N. 016-W2545



ELEVATION
(Looking North; unfolded)



PLAN

REVISED SHEET 5/28/2026



USER NAME = mzelisko	DESIGNED - MZ	REVISED 5/15/2026 MZ
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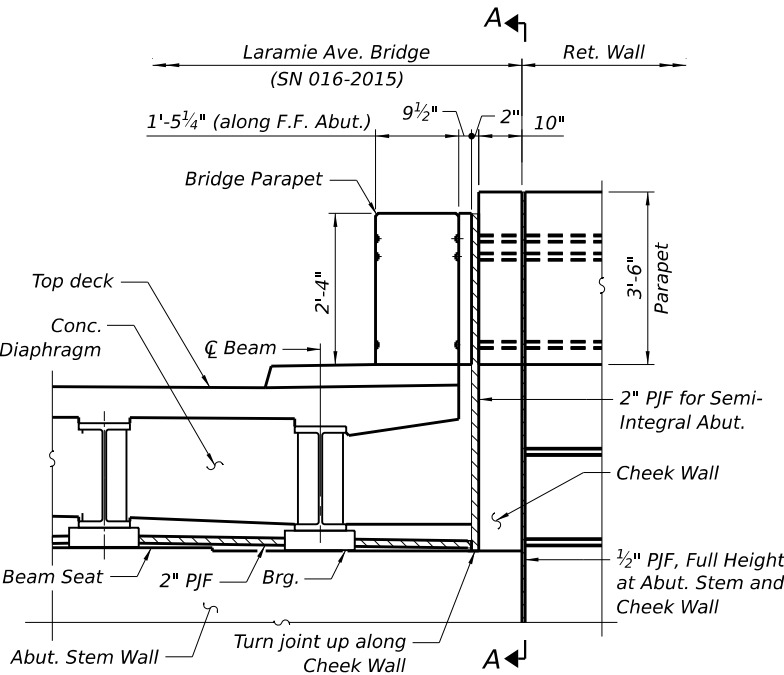
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 12 SHEETS

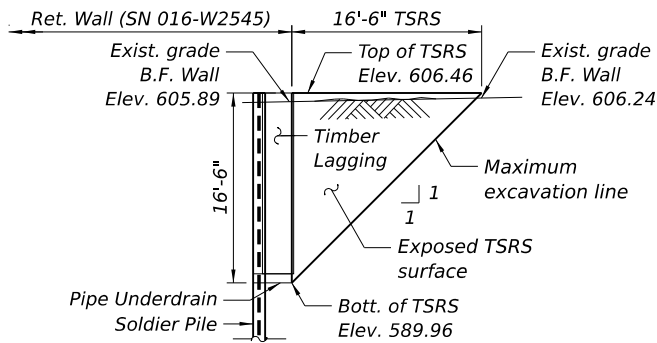
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290	22 STRUCTURE 1	COOK	330	236
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. The existing utilities in conflict with the retaining wall construction shall be relocated according to directions given on the Civil Plans.
2. Wall to be built along straight chords between construction and expansion joints.
3. Soldier piles, sleeves, and plates shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer per AASHTO M 300, Type 1. Cost included with Furnishing Soldier Piles (HP Section).
4. All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.
5. All structural steel shall be AASHTO M 270 Grade 50.
6. No field welding is permitted except as specified in the contract documents.
7. Reinforcement bars designated (E) shall be epoxy coated.
8. Protective Coat shall be applied to the top and inside vertical faces of the parapet, and concrete sealer shall be applied to exposed surfaces of the facing and back of parapet. The Concrete Sealer shall be a "film forming" type for horizontal surfaces.
9. Slipforming of parapet is not allowed.



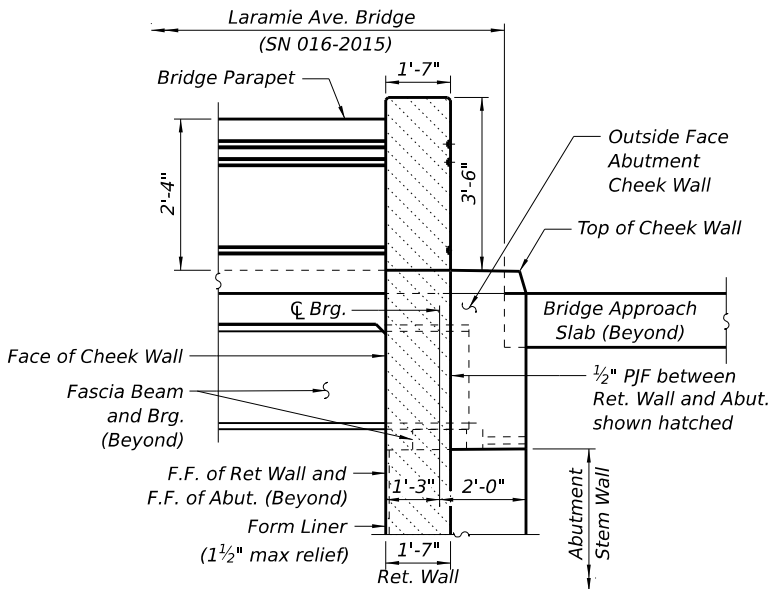
ELEVATION VIEW - RETAINING WALL/ABUT. INTERFACE



TSRS ELEVATION

(Looking North)

(A cantilever sheet piling wall does not appear feasible and additional members or retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.)
(Timber Lagging to be supported by TSRS)



SECTION A-A

(Dim. at Rt. L to Retaining wall)
(Soldier Pile not shown for clarity)

INDEX OF SHEETS

- 1 General Plan & Elevation
2 General Data
3 Wall Facing Plan & Elevation I
4 Wall Facing Plan & Elevation II
5 Wall Details I
6 Wall Details II
7 Wall Aesthetic Details
8 Soil Boring Logs I
9 Soil Boring Logs II
10 Soil Boring Logs III
11 Soil Boring Logs IV
12 Soil Boring Logs V

STA. 4713+11.36 TO STA. 4714+91.17
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 290 SEC. 22 STRUCTURE 1
LOADING HL-93
STR. NO. 016-W2545

NAME PLATE

See Std. 515001

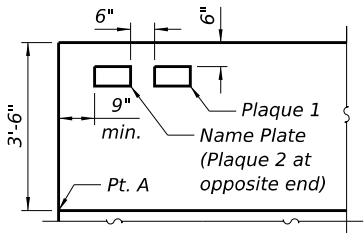
CURVE DATA

(@ I-290 (WB) Future Ramp)
P.I. Sta. = 16+43.84
Δ = 03°08'13" (LT)
D = 01°04'52"
R = 5,300.00'
T = 145.13'
L = 290.18'
E = 1.99'
e = NC
T.R. = N/A
S.E. = N/A
P.C. Sta. = 14+98.72
P.T. Sta. = 17+88.90

PLAQUE __
TIEBACK RETAINING WALL AREA
F.A.I. RTE. 290 SEC. 22 STRUCTURE 1
LIMIT DEPTH OF EXCAVATION
WITHIN ROADWAY FROM
PLAQUE 1 TO PLAQUE 2

PLAQUE

(Paid for as Name Plate)

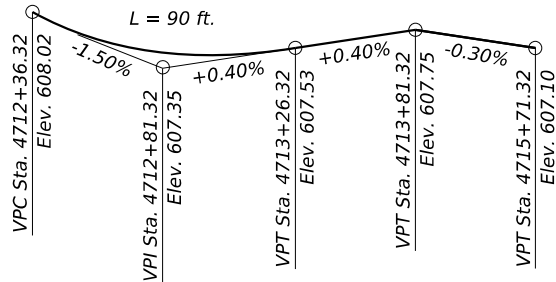


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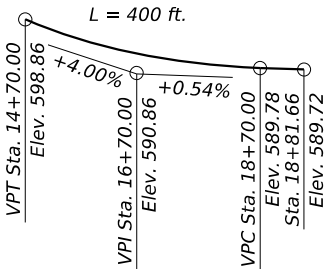
(Shown for Plaque 1,
Plaque 2 similar)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	387.5
Concrete Structures	Cu. Yd.	196.9
Concrete Superstructure	Cu. Yd.	37.2
Form Liner Textured Surface	Sq. Ft.	1,971
Protective Coat	Sq. Yd.	102
Stud Shear Connectors	Each	424
Reinforcement Bars, Epoxy Coated	Pound	19,430
Name Plates	Each	3
Temporary Soil Retention System	Sq. Ft.	137
Furnishing Soldier Piles (HP Section)	Foot	1,200
Driving Soldier Piles	Foot	1,200
Untreated Timber Lagging	Sq. Ft.	2,786
Concrete Sealer	Sq. Ft.	4,058
Geocomposite Wall Drain	Sq. Yd.	225
Pipe Underdrains For Structures 4"	Foot	180
Pipe Underdrains For Structures (Special) 4"	Foot	31
Permanent Ground Anchor	Each	24



PROFILE GRADE - FLOURNOY STREET



PROFILE GRADE - FUTURE I-290 (WB) RAMP

(For Information Only)

I-290 (WB) Future Ramp & P.G.L.

(For Information Only)

Location	Station	Offset
Pt. A	18+42.77	8.14
Pt. B	18+12.77	8.14
Kink Pt. C	17+82.78	8.14
Pt. D	17+52.82	7.90
Pt. E	17+22.87	7.82
Pt. F	16+92.91	7.91
Pt. G	16+62.96	8.17

WALL ELEVATIONS TABLE

Location	Station	Offset	Elev. 1	Elev. 2	Elev. 3	Elev. 4
Pt. A	4713+11.36	41.76	608.98	590.17	601.63	593.88
Pt. B	4713+41.32	40.12	608.26	590.44	602.37	594.31
Kink Pt. C	4713+71.27	38.48	608.17	590.79	603.02	594.83
Pt. D	4714+01.25	37.20	607.90	591.21	603.47	595.60
Pt. E	4714+31.22	35.93	607.73	591.72	604.05	596.03
Pt. F	4714+61.19	34.65	607.59	592.30	604.64	600.23
Pt. G	4714+91.17	33.38	607.50	592.96	605.25	605.12

Elev. 1 - Finished grade at B.F. of wall
Elev. 2 - Finished grade at F.F. of wall (Future Condition)
Elev. 3 - Existing grade at F.F. of wall
Elev. 4 - Finished grade at F.F. of wall (Interim Condition)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-W2545

SHEET 2 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	330	237
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				



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PLOT DATE =	04/24/2026	CHECKED -	MZ	REVISED	-	

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Bench Mark: BM 728: Aluminum disk in parapet wall near SE Abutment. Elev. 612.28.

Existing Structure: None

One lane of Lexington St. traffic will be maintained using stage construction. Traffic along I-290 will be maintained utilizing stage construction.

No Salvage

SEQUENCE OF CONSTRUCTION

1. Locate existing utilities. Contractor to coordinate with utility owners as necessary prior to beginning the work.
2. Remove part of the TSRS required for the Laramie Ave. Bridge (SN 016-2015) construction. The intent is for the abutment to be constructed before this wall. Contractor shall provide supports for the timber lagging on the side of the abutment. Cost shall be included with Untreated Timber Lagging. See Bridge Plans for TSRS and Abutment details.
3. Install driven soldier piles and TSRS.
4. Remove only earth as necessary to install timber lagging to the level of Permanent Ground Anchors.
5. Install Permanent Ground Anchors. 9'-0" maximum excavation height without anchors.
6. Complete remaining earth excavation.
7. Install concrete facing.
8. Backfill in front of wall to proposed finished grade for interim condition.

DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

DESIGN STRESSES

FIELD UNITS

$f_c = 4,000$ psi (Parapet)
 $f'_c = 3,500$ psi (Wall Facing)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

LEGEND

- Exist. Storm Sewer
- Exist. Telephone
- Exist. Electric
- Exist. Water Main
- Exist. Fence
- Prop. Storm Sewer (Interim)
- Soil Boring Location
- Exist. Manhole
- Exist. Light Pole
- Exist. Sign
- Exist. Drainage Structure
- Prop. Catch Basin (Future)
- Exist. Vegetation

NOTES:

1. Wall stations are measured from CL Lexington St. unless noted otherwise. All offsets are measured to the front face of retaining wall.
2. F.F. denotes Front Face.
B.F. denotes Back Face.
C denotes Construction Joint.
E denotes Expansion Joint.
(CDWM) denotes City of Chicago Department of Water Management.
3. Prop. Light Pole mounted on Concrete Parapet at Sta. 3713+19.32 and Offset 27.12' Lt.

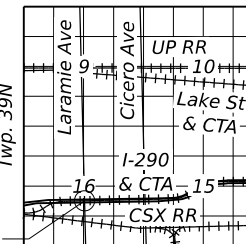
APPROVED
For Structural Adequacy Only
Justin Mann
Engineer of Bridges & Structures



Michael M. Zelisko
SIGNATURE:

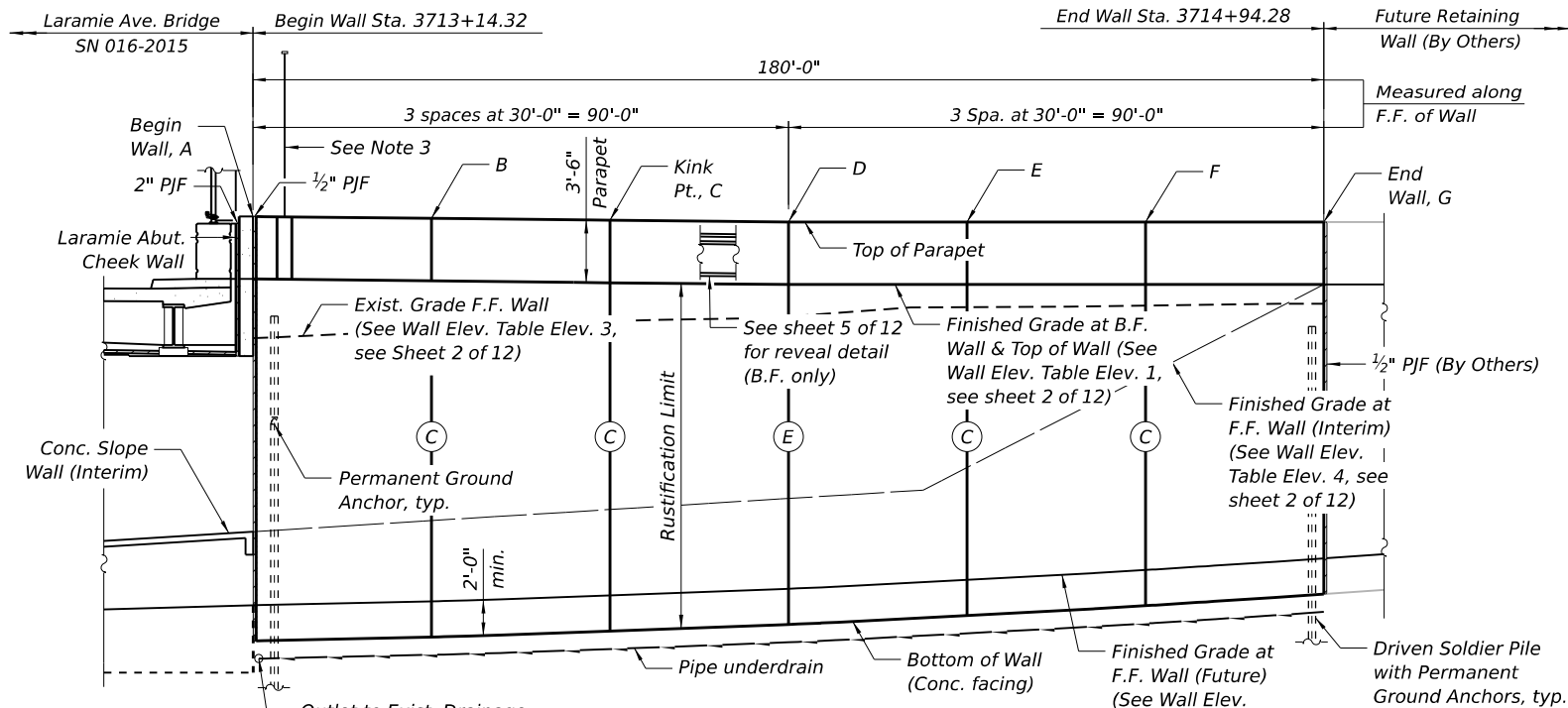
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EXPIRES: November 30, 2026
SHEETS:

Range 13E, 3 P.M.

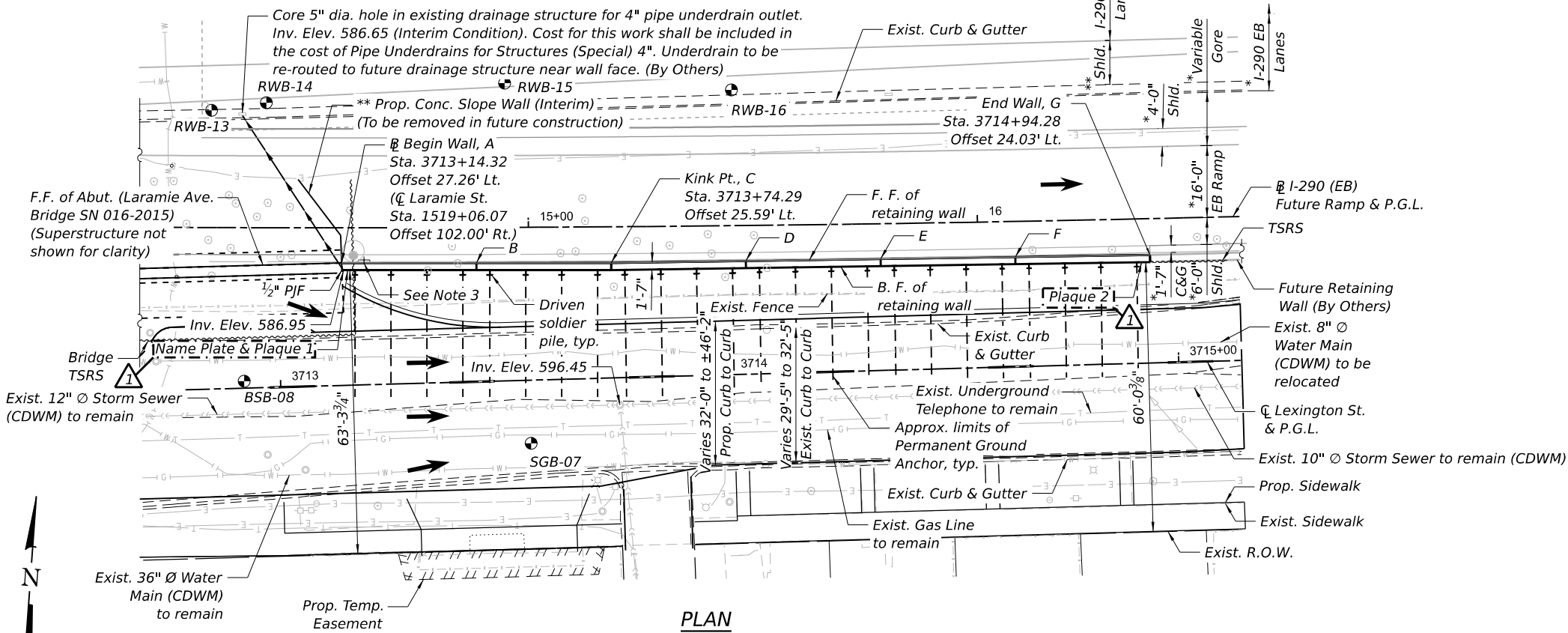


LOCATION SKETCH

GENERAL PLAN AND ELEVATION RETAINING WALL ALONG LEXINGTON ST. F.A.I. RTE. 290 SECTION 22 STRUCTURE 1 COOK COUNTY STA. 3713+14.32 TO STA. 3714+94.28 S.N. 016-W2546



REFLECTED ELEVATION (Looking North; unfolded)



PLAN

* Future Improvements (By Others)
** Existing or Interim Conditions

1 REVISED SHEET 5/28/2026

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 12 SHEETS

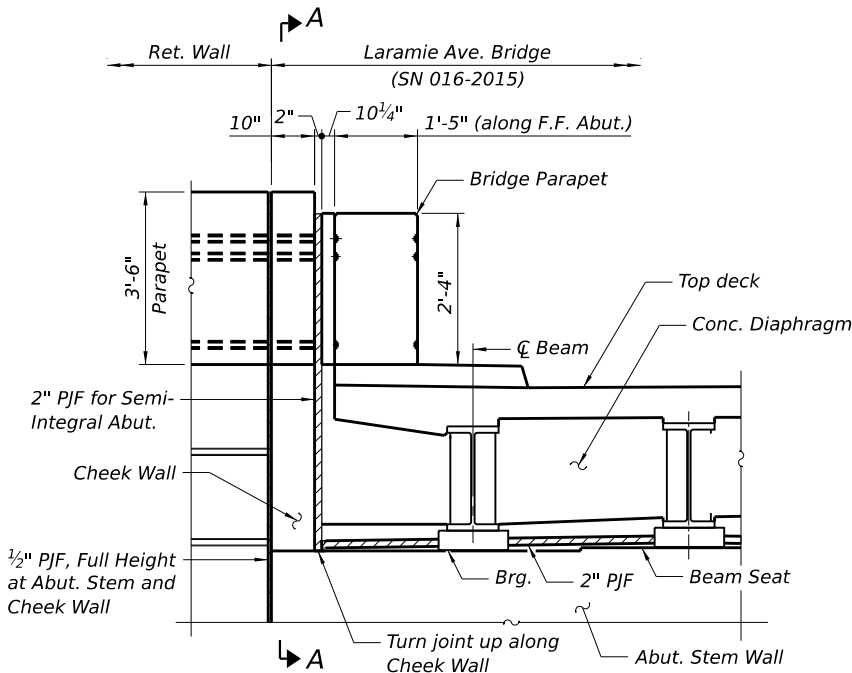
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	330	248
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				



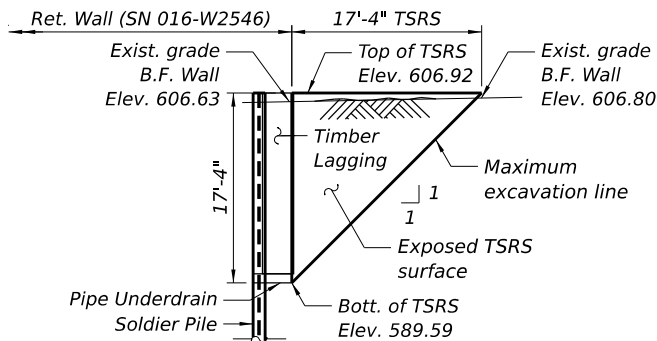
USER NAME = mzelsko	DESIGNED - MZ	REVISED 5/15/2026 MZ
CHECKED - IS	REVISOR -	
PLOT SCALE = 32,000' / in.	DRAWN - AT	REVISED -
PLOT DATE = 01/08/2026	CHECKED - MZ	REVISED -

GENERAL NOTES

- The existing utilities in conflict with the retaining wall construction shall be relocated according to directions given on the Civil Plans.
- Wall to be built along straight chords between construction and expansion joints.
- Soldier piles, sleeves, and plates shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer per AASHTO M 300, Type 1. Cost included with Furnishing Soldier Piles (HP Section).
- All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.
- All structural steel shall be AASHTO M 270 Grade 50.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Protective Coat shall be applied to the top and inside vertical faces of the parapet, and concrete sealer shall be applied to exposed surfaces of the facing and back of parapet. The Concrete Sealer shall be a "film forming" type for horizontal surfaces.
- Slipforming of parapet is not allowed.

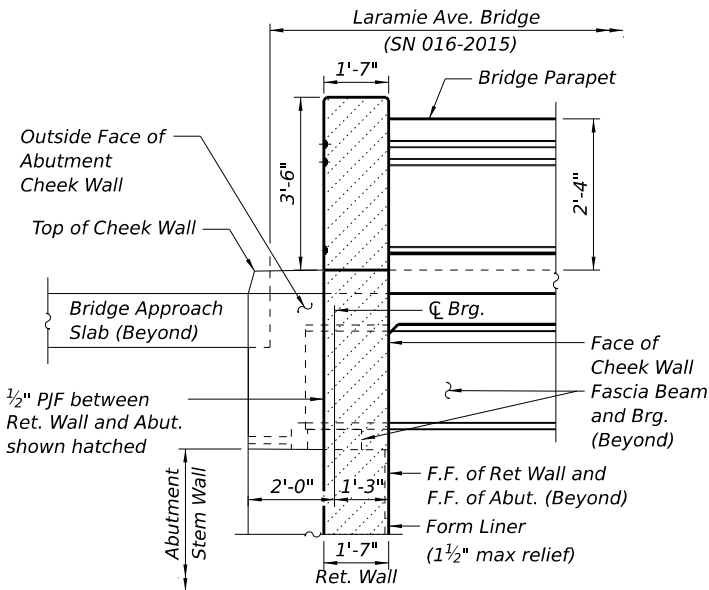


ELEVATION VIEW - RETAINING WALL/ABUT. INTERFACE



TSRS REFLECTED ELEVATION

(Looking North)
(A cantilever sheet piling wall does not appear feasible and additional members or retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.)
(Timber Lagging to be supported by TSRS)



SECTION A-A

(Dim. at Rt. L to Retaining wall)
(Soldier Pile not shown for clarity)

INDEX OF SHEETS

- General Plan & Elevation
- General Data
- Wall Facing Plan & Elevation I
- Wall Facing Plan & Elevation II
- Wall Details I
- Wall Details II
- Wall Aesthetic Details
- Soil Boring Logs I
- Soil Boring Logs II
- Soil Boring Logs III
- Soil Boring Logs IV
- Soil Boring Logs V

STA. 3713+14.32 TO STA. 3714+94.28
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 290 SEC. 22 STRUCTURE 1
LOADING HL-93
STR. NO. 016-W2546

NAME PLATE

See Std. 515001

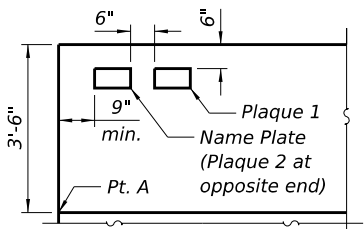
CURVE DATA

(B I-290 (EB) Future Ramp)
P.I. Sta. = 14+01.40
Δ = 04°00'00" (LT)
D = 00°42'58"
R = 8,000.00'
T = 279.37'
L = 558.51'
E = 4.88'
e = N/A
T.R. = N/A
S.E. = N/A
P.C. Sta. = 11+22.03
P.T. Sta. = 16+80.54

PLAQUE __
TIEBACK RETAINING WALL AREA
F.A.I. RTE. 290 SEC. 22 STRUCTURE 1
LIMIT DEPTH OF EXCAVATION
WITHIN ROADWAY FROM
PLAQUE 1 TO PLAQUE 2

PLAQUE

(Paid for as Name Plate)

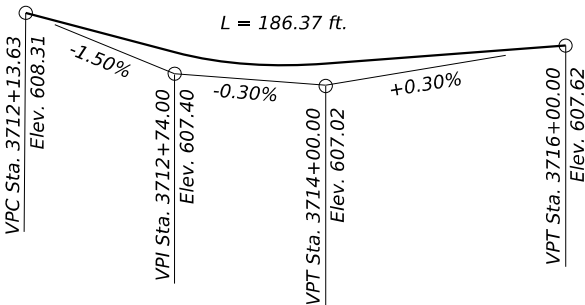


PLAQUE DETAIL

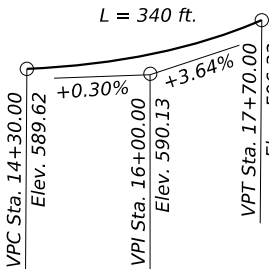
(Shown for Plaque 1,
Plaque 2 similar)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	449.3
Concrete Structures	Cu. Yd.	196.1
Concrete Superstructure	Cu. Yd.	37.2
Form Liner Textured Surface	Sq. Ft.	1,884
Protective Coat	Sq. Yd.	102
Stud Shear Connectors	Each	422
Reinforcement Bars, Epoxy Coated	Pound	19,340
Name Plates	Each	3
Temporary Soil Retention System	Sq. Ft.	151
Furnishing Soldier Piles (HP Section)	Foot	960
Driving Soldier Piles	Foot	960
Untreated Timber Lagging	Sq. Ft.	2,774
Concrete Sealer	Sq. Ft.	4,037
Geocomposite Wall Drain	Sq. Yd.	224
Pipe Underdrains For Structures 4"	Foot	180
Pipe Underdrains For Structures (Special) 4"	Foot	41
Permanent Ground Anchor	Each	24



PROFILE GRADE - LEXINGTON STREET



PROFILE GRADE - FUTURE I-290 (EB) RAMP

(For Information Only)

B I-290 (EB) Future Ramp & P.G.L.

(For Information Only)

Location	Station	Offset
Pt. A	14+58.44	7.83
Pt. B	14+88.41	7.89
Kink Pt. C	15+18.38	8.06
Pt. D	15+48.35	7.90
Pt. E	15+78.32	7.85
Pt. F	16+08.29	7.91
Pt. G	16+38.26	8.08

WALL ELEVATIONS TABLE

Location	Station	Offset	Elev. 1	Elev. 2	Elev. 3	Elev. 4
Pt. A	3713+14.32	27.26	608.56	589.95	604.40	596.48
Pt. B	3713+44.31	26.42	607.64	590.17	604.86	596.86
Kink Pt. C	3713+74.29	25.59	607.51	590.48	605.34	597.30
Pt. D	3714+04.29	25.20	607.42	590.87	605.60	598.00
Pt. E	3714+34.29	24.81	607.43	591.35	606.13	600.71
Pt. F	3714+64.29	24.82	607.45	591.92	606.23	603.55
Pt. G	3714+94.28	24.03	607.46	592.59	606.33	606.37

Elev. 1 - Finished grade at B.F. of wall
Elev. 2 - Finished grade at F.F. of wall (Future Condition)
Elev. 3 - Existing grade at F.F. of wall
Elev. 4 - Finished grade at F.F. of wall (Interim Condition)

REVISD SHEET 5/28/2026

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-W2546

SHEET 2 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	22 STRUCTURE 1	COOK	330	249
CONTRACT NO. 62R61				
ILLINOIS FED. AID PROJECT				



USER NAME = mzelisko	DESIGNED - MZ	REVISED 5/15/2026 MZ
CHECKED - IS	REVISED -	
PLOT SCALE = 2,000 ' / in.	DRAWN - AT	REVISED -
PLOT DATE = 04/24/2026	CHECKED - MZ	REVISED -

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