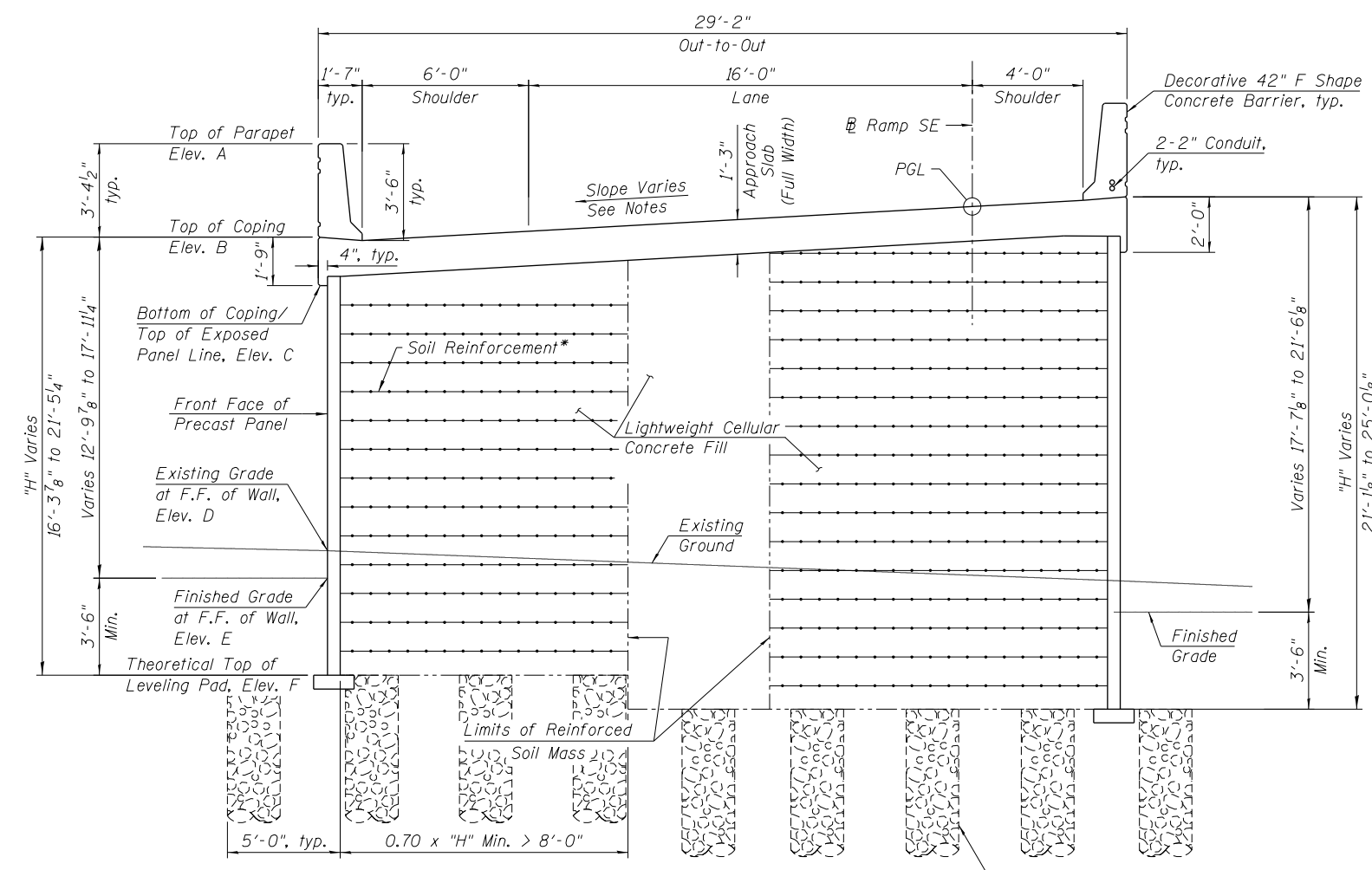


**TABLE 1 - WALL ELEVATIONS**

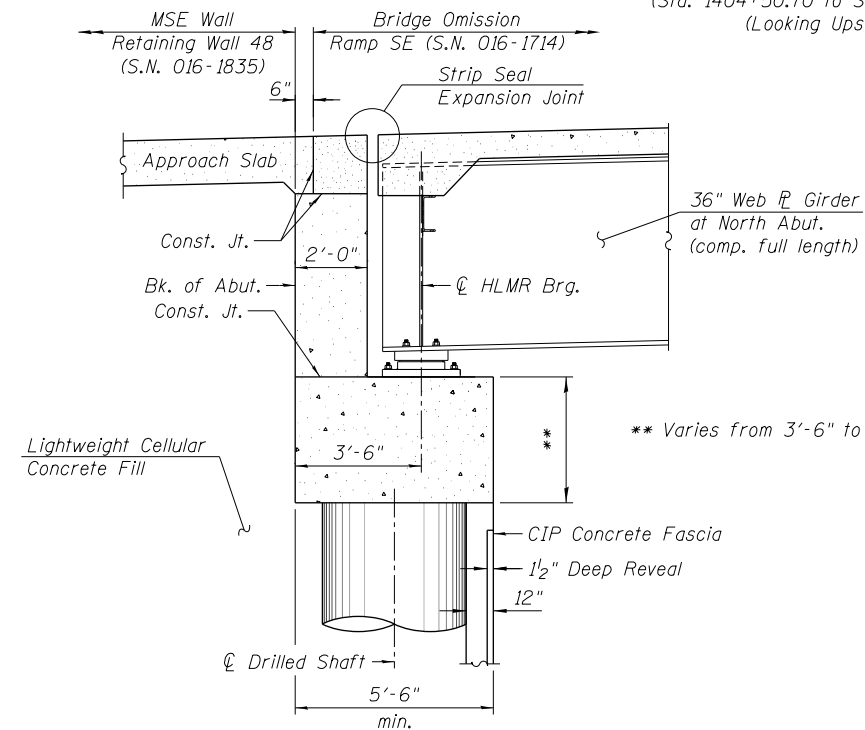
Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F
1403+78.00	5.25' Rt.	599.10	595.73	593.73	595.97	595.73	592.23
1404+00.00	5.25' Rt.	600.75	597.37	595.37	592.35	589.77	586.27
1404+09.00	5.25' Rt.	601.42	598.05	596.05	591.55	587.04	583.54
1404+25.00	5.25' Rt.	602.62	599.24	597.24	590.82	585.06	581.56
1404+50.70	5.25' Rt.	604.54	601.16	599.16	586.80	583.57	580.07
1404+70.00	5.25' Rt.	605.97	602.60	600.60	584.47	582.44	578.94
1404+80.58	5.25' Rt.	606.72	603.34	601.34	583.24	581.83	578.33
1404+80.11	23.25' Lt.	605.23	601.86	600.11	583.42	583.92	580.42
1404+70.00	23.25' Lt.	604.52	601.14	599.39	583.61	585.01	581.51
1404+50.70	23.25' Lt.	603.28	599.90	598.15	586.35	587.08	583.58
1404+25.00	23.25' Lt.	601.65	598.27	596.52	589.64	589.85	586.35
1404+09.00	23.25' Lt.	600.63	597.25	595.50	590.82	591.64	588.14
1404+00.00	23.25' Lt.	600.06	596.68	594.93	591.47	592.64	589.14
1403+78.00	23.25' Lt.	598.66	595.29	593.54	592.59	595.29	591.79

Elevation A - Top of Parapet  
 Elevation B - Top of Coping  
 Elevation C - Bottom of Coping / Top of Exposed Panel Line  
 Elevation D - Existing Grade at F.F. of Wall  
 Elevation E - Finished Grade at F.F. of Wall  
 Elevation F - Theoretical Top of Leveling Pad



**CROSS SECTION**

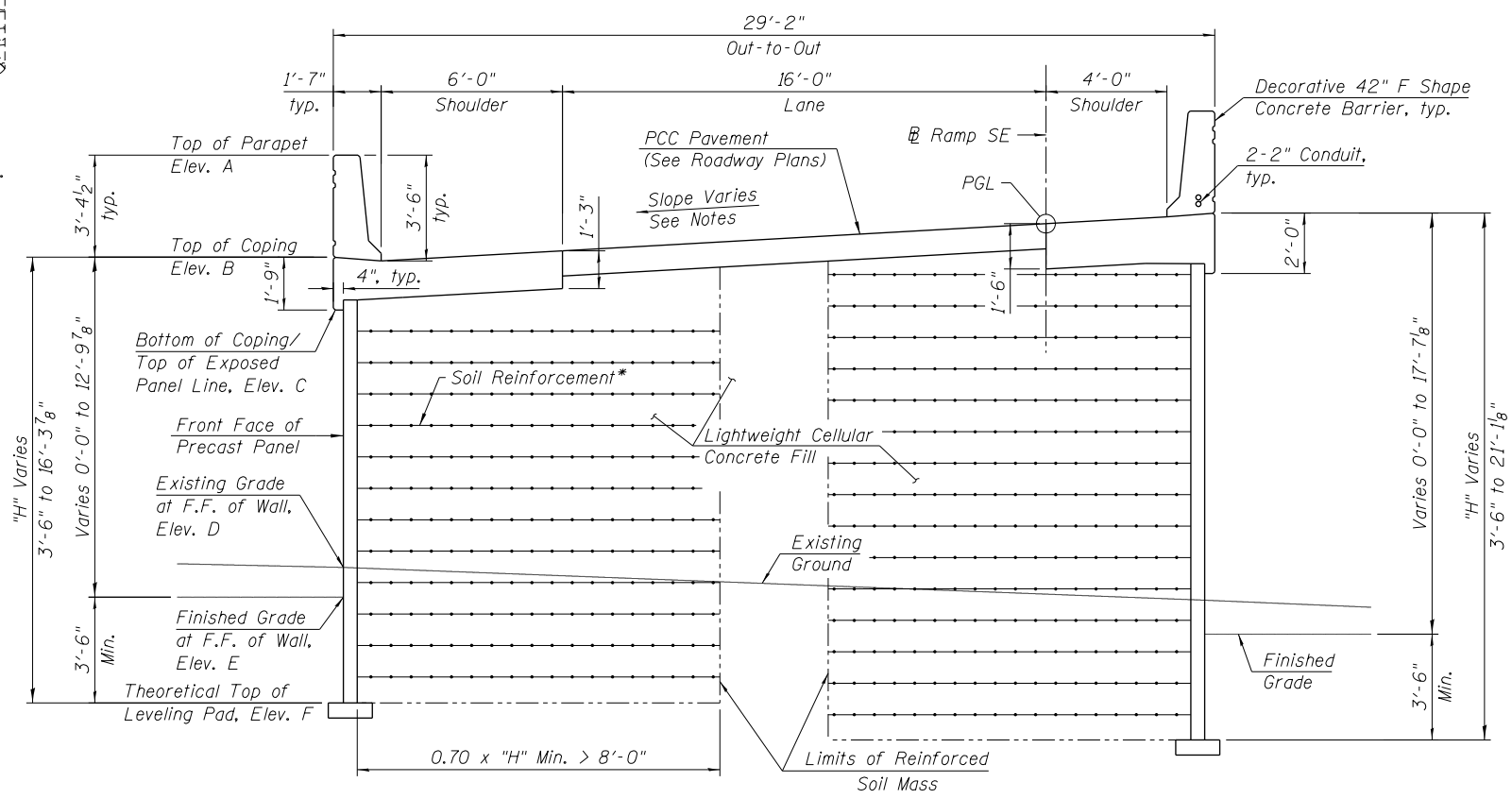
(Sta. 1404+50.70 to Sta. 1404+80.58)  
 (Looking Upstation)  
 Aggregate Column Ground Improvements (Sta. 1404+50.00 to Sta. 1404+80.58), typ.



**SECTION THRU ABUTMENT**

(Horiz. Dim. @ Rt. L's)

Notes:  
 Direction of slope referenced from right edge of pavement.  
 Slope Transition (0.00% to -5.60%) Sta. 1403+38.82 to Sta. 1404+68.00  
 Constant Cross Slope (-5.60%) Sta. 1404+68.00 to Sta. 1409+90.00



**CROSS SECTION**

(Sta. 1403+78.00 to Sta. 1404+50.70)  
 (Looking Upstation)

\* The M.S.E. Wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.83 kips/ft of wall.

3:10:52 PM 0161835-60X93-5003-xsection\_Details.dgn



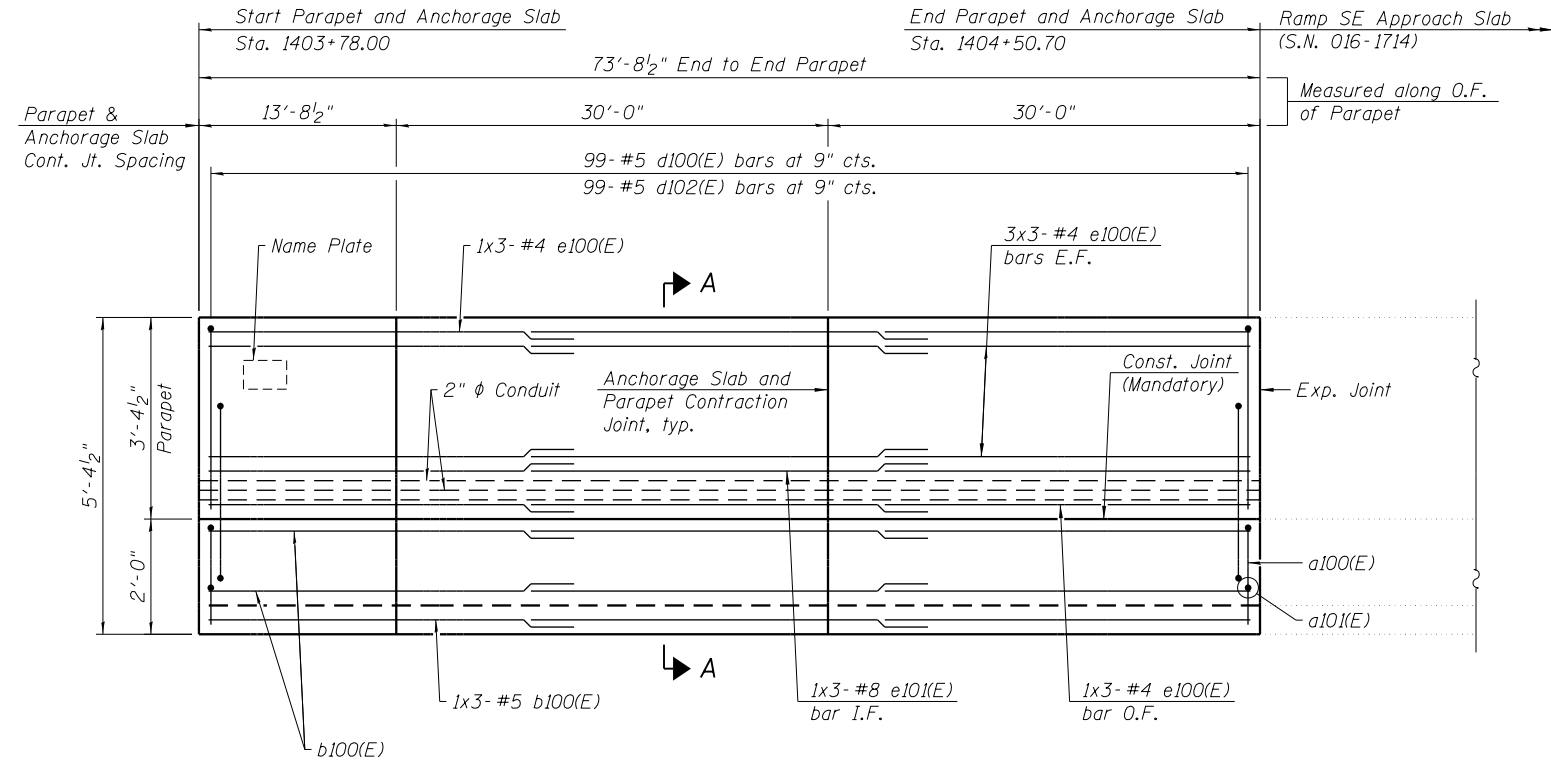
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	CHECKED - KRS/WJC	REVISD -

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

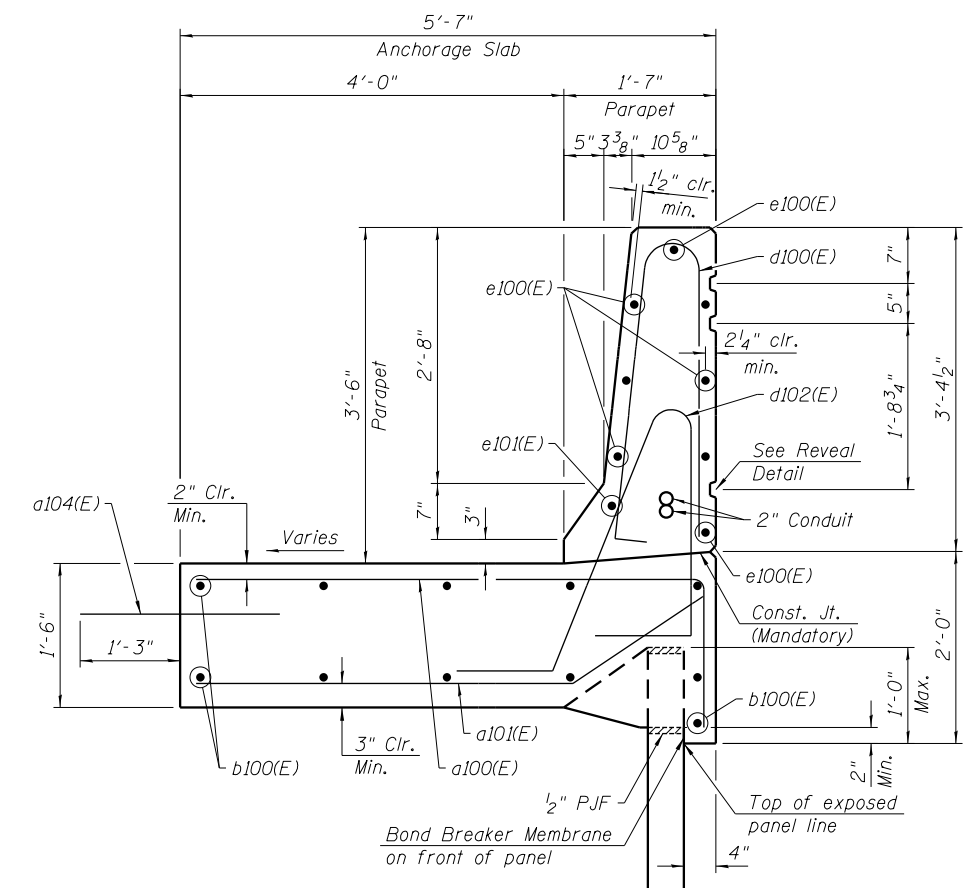
**MSE CROSS SECTIONS AND DETAILS**  
**RETAINING WALL 48 (STRUCTURE NO. 016-1835)**

SHEET NO. S10-03 OF S10-11 SHEETS

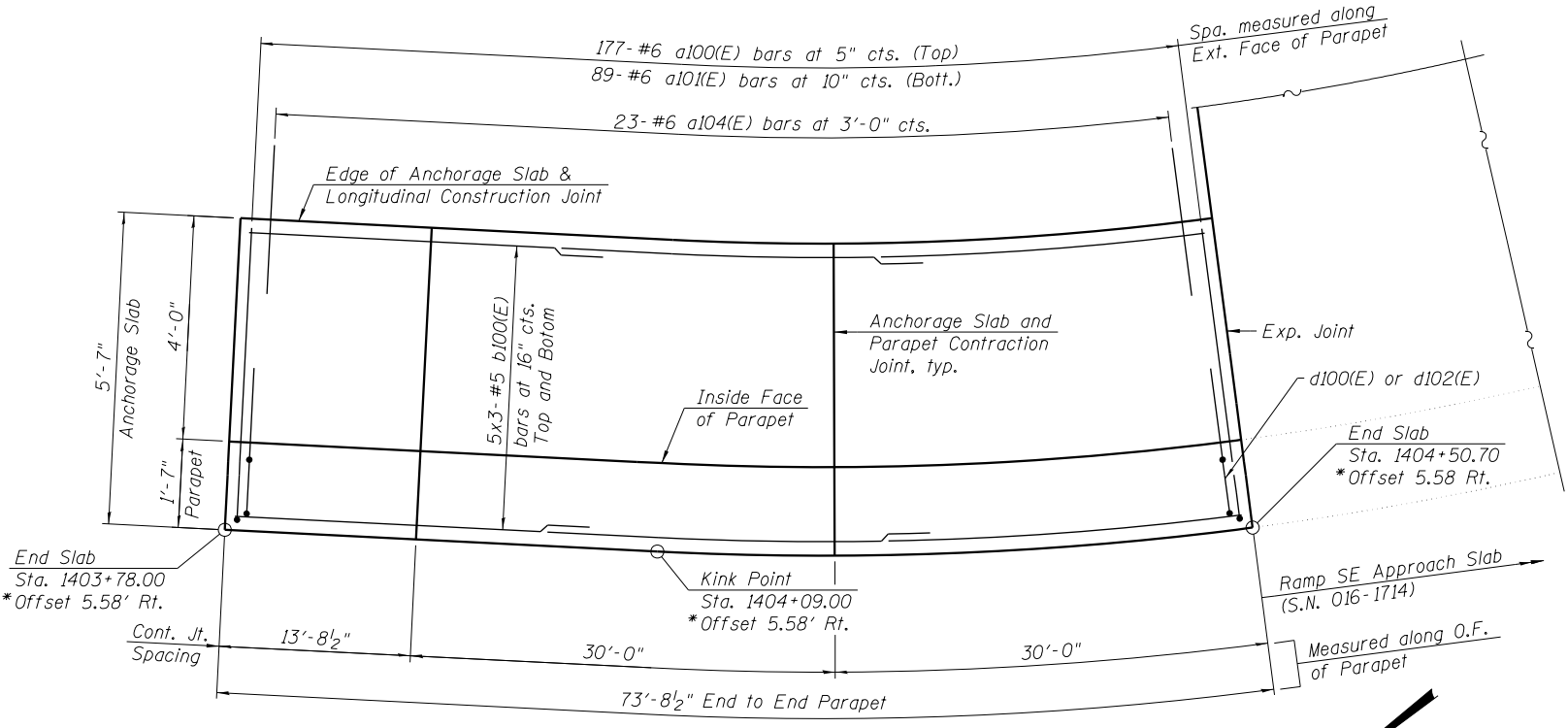
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1101
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				



**OUTSIDE ELEVATION OF RIGHT PARAPET AND ANCHORAGE SLAB**



**SECTION A-A**



**RIGHT PARAPET AND ANCHORAGE SLAB PLAN**

\* Offsets measured to front face of anchorage slabs.

**MIN. BAR LAPS**

- #4 = 2'-8"
- #5 = 3'-4"
- #8 = 6'-8"

Notes:  
 I.F. = Inside Face  
 O.F. = Outside Face  
 E.F. = Each Face  
 For Bar Diagram, Expansion and Contraction Joints Details and Bill of Material, see Sheet S10-06 of S10-11.  
 Preformed Flexible Foam Expansion Joint Filler (called out as P.J.F. in plans) shall follow Article 1051.09 of IDOT Standard Specifications. Cost included in Concrete Superstructure.  
 Anchorage slab shall be constructed in final stage.

3/11/00 PM 0161835-60X93-5004-StabPlan\_Elev1.dgn



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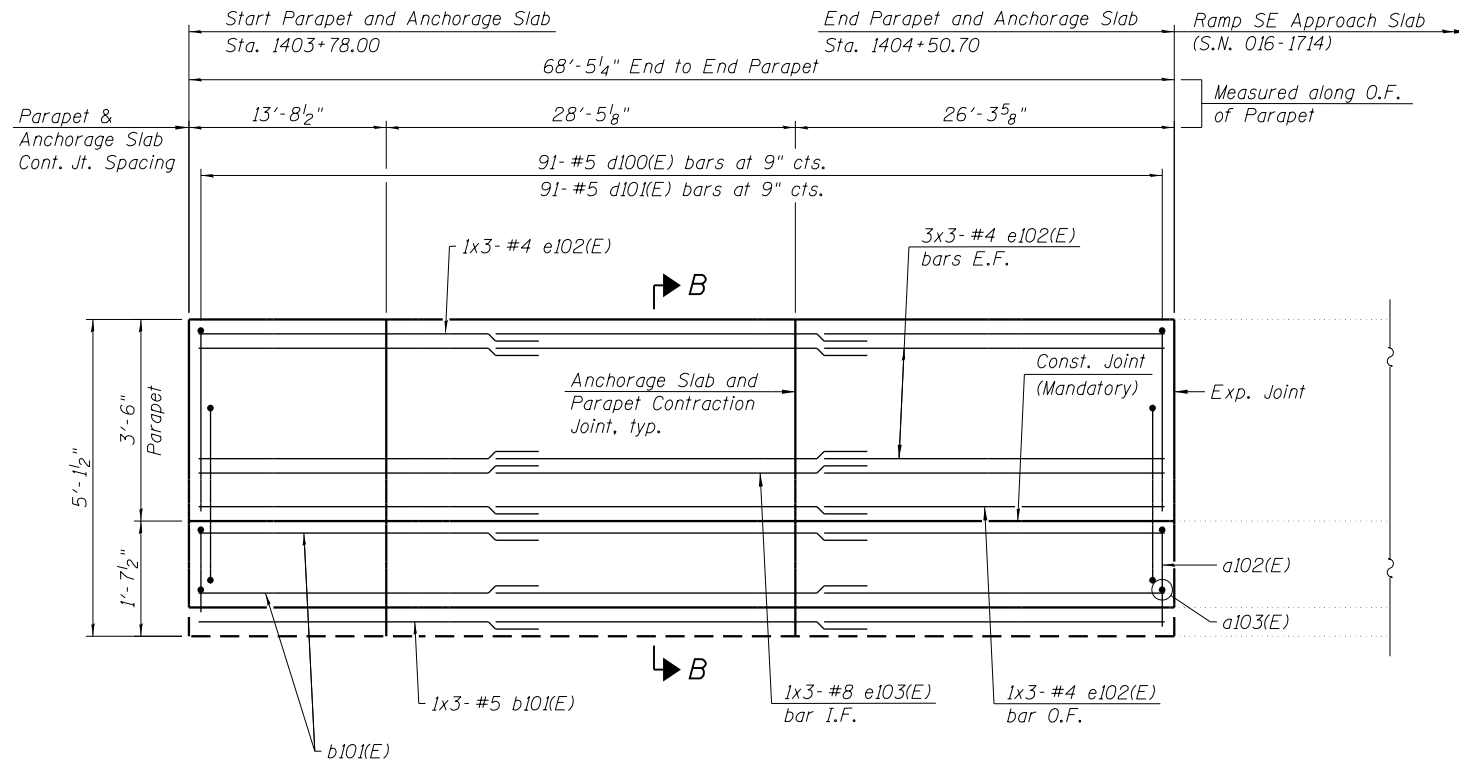
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 1  
RETAINING WALL 48 (STRUCTURE NO. 016-1835)**

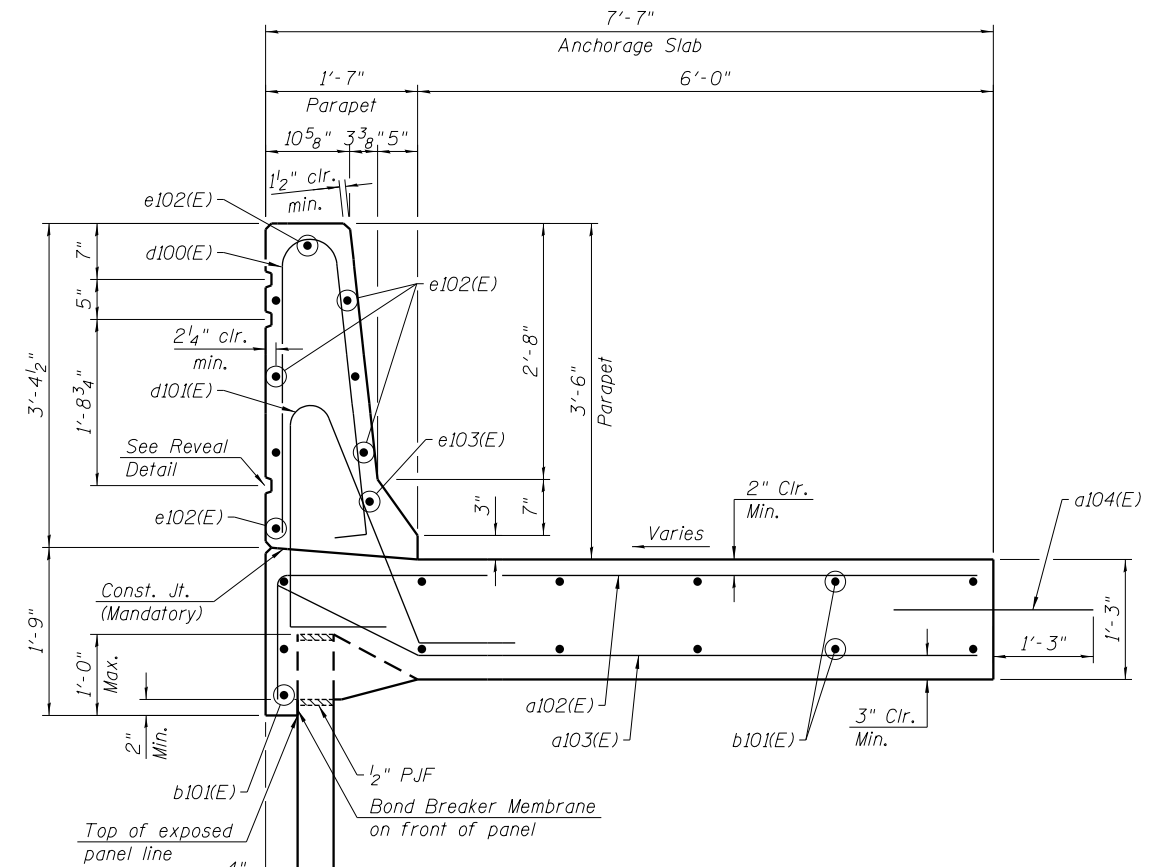
SHEET NO. S10-04 OF S10-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1102
CONTRACT NO.			60X93	

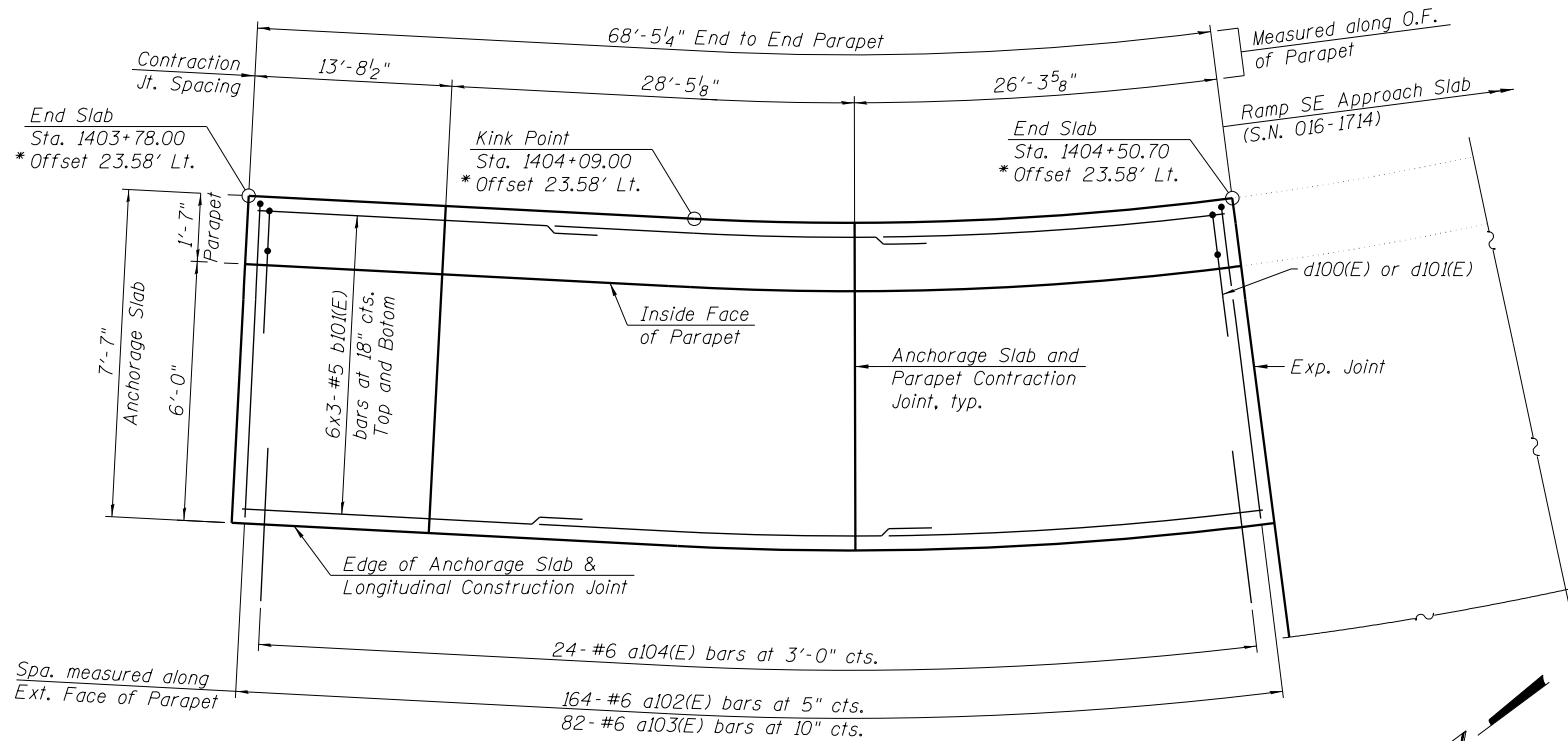
ILLINOIS FED. AID PROJECT



**INSIDE ELEVATION OF LEFT PARAPET AND ANCHORAGE SLAB**



**SECTION B-B**



**LEFT PARAPET AND ANCHORAGE SLAB PLAN**

\* Offsets measured to front face of anchorage slabs.

**MIN. BAR LAPS**

- #4 = 2'-8"
- #5 = 3'-4"
- #8 = 6'-8"

**Notes:**

I.F. = Inside Face  
 O.F. = Outside Face  
 E.F. = Each Face  
 For Bar Diagram, Expansion and Contraction Joints Details and Bill of Material, see Sheet S10-06 of S10-11.  
 Preformed Flexible Foam Expansion Joint Filler (called out as P.J.F. in plans) shall follow Article 1051.09 of IDOT Standard Specifications. Cost included in Concrete Superstructure.  
 Anchorage slab shall be constructed in final stage.

3/11/07 PM 0161835-60X93-5005-StabPlan\_Elev2.dgn



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	CHECKED - KRS	REVISED -
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PLOT DATE = 7/26/2018	CHECKED - KRS/WJC	REVISED -

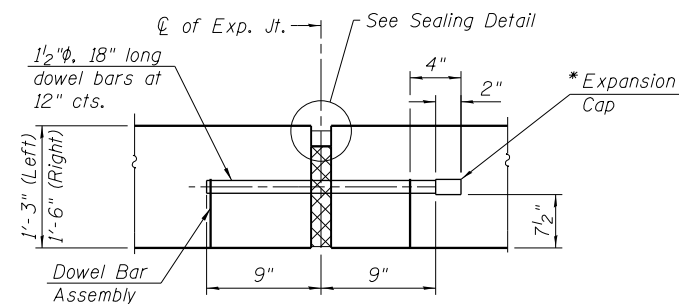
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 2  
 RETAINING WALL 48 (STRUCTURE NO. 016-1835)**

SHEET NO. S10-05 OF S10-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			60X93	

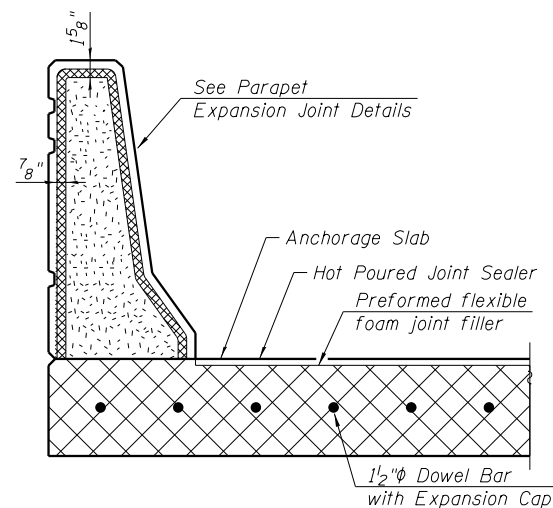
ILLINOIS FED. AID PROJECT



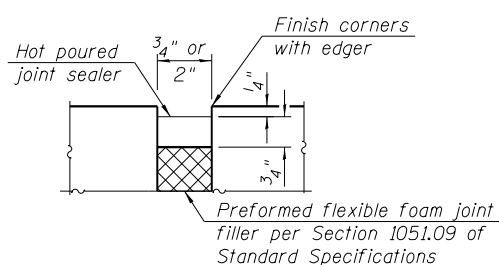
**ANCHORAGE SLAB TO ANCHORAGE SLAB  
TRANSVERSE EXPANSION JOINT**

Expansion Joint Filler, Sealer and Dowel Bars included in cost of Concrete Superstructure.

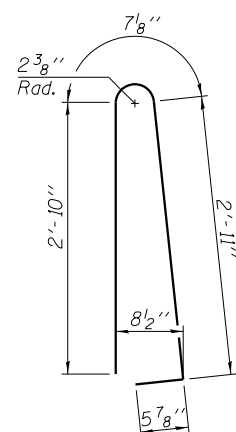
\*Expansion caps shall be installed on the exposed end of each dowel bar once header has been removed and the joint filler material has been installed.



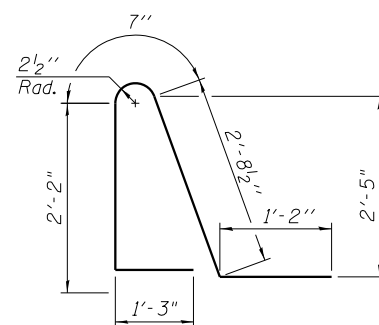
**TRANSVERSE EXPANSION  
JOINT SECTION**



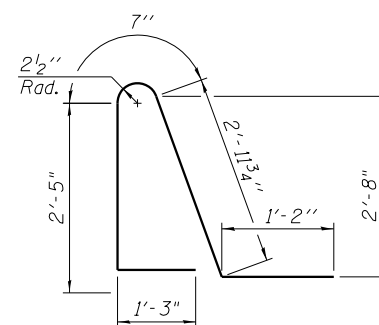
**SEALER DETAIL**



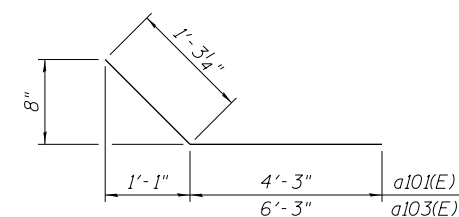
**BAR d100(E)**



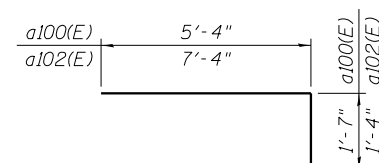
**BAR d101(E)**



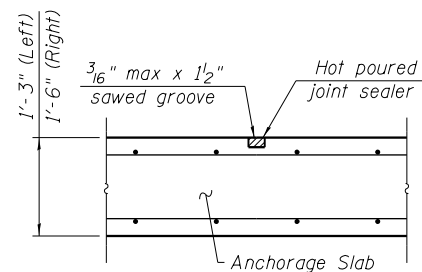
**BAR d102(E)**



**BARS a101(E) & a103(E)**

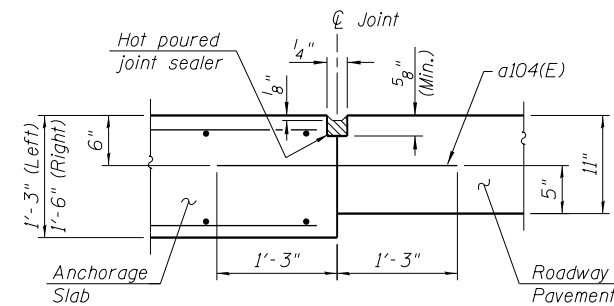


**BAR a100(E) & a102(E)**



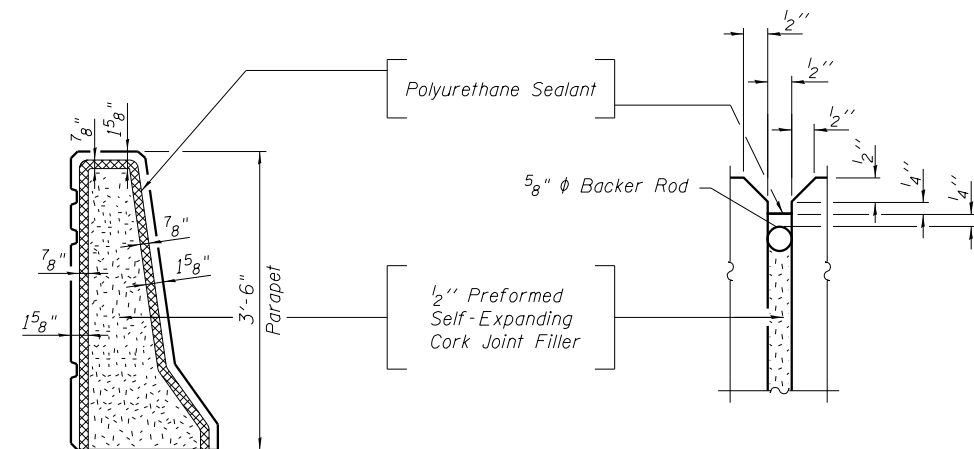
**TRANSVERSE CONTRACTION JOINT**

See Article 420.05 & 420.12 of the Standard Specifications

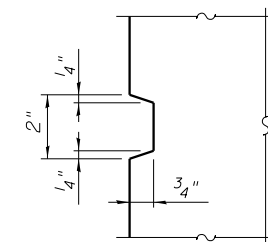


**LONGITUDINAL CONSTRUCTION JOINT**

See Article 420.05 & 420.12 of the Standard Specifications



**PARAPET EXPANSION JOINT DETAILS**



**REVEAL DETAIL**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a100(E)	177	#6	6'-11"	┌
a101(E)	89	#6	5'-6"	└
a102(E)	164	#6	8'-8"	┌
a103(E)	82	#6	7'-6"	└
a104(E)	47	#6	2'-6"	—
b100(E)	33	#5	26'-11"	—
b101(E)	39	#5	25'-5"	—
d100(E)	190	#5	6'-10"	┆
d101(E)	91	#5	7'-11"	┆
d102(E)	99	#5	8'-5"	┆
e100(E)	24	#4	26'-3"	—
e101(E)	3	#8	28'-11"	—
e102(E)	24	#4	24'-6"	—
e103(E)	3	#8	27'-2"	—
Concrete Superstructure			Cu. Yd.	69.9
Protective Coat			Sq. Yd.	150
Reinforcement Bars, Epoxy Coated			Pound	12,140
Concrete Sealer			Sq. Ft.	3,788
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	79

Notes:  
 All edges shall be chamfered 3/4 inches.  
 Protective coat shall be applied to the parapet top and interior vertical surface above ground line and top face of anchorage slab.  
 Bars indicated thus 3x4-#5 etc. indicates 3 lines of bars with 4 lengths per line.  
 See Sheet S10-02 of S10-11 for additional notes for MSE wall suppliers.  
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

3:11:11 PM  
 0161835-60X93-S006-SlabPlan\_Lelev3.dgn



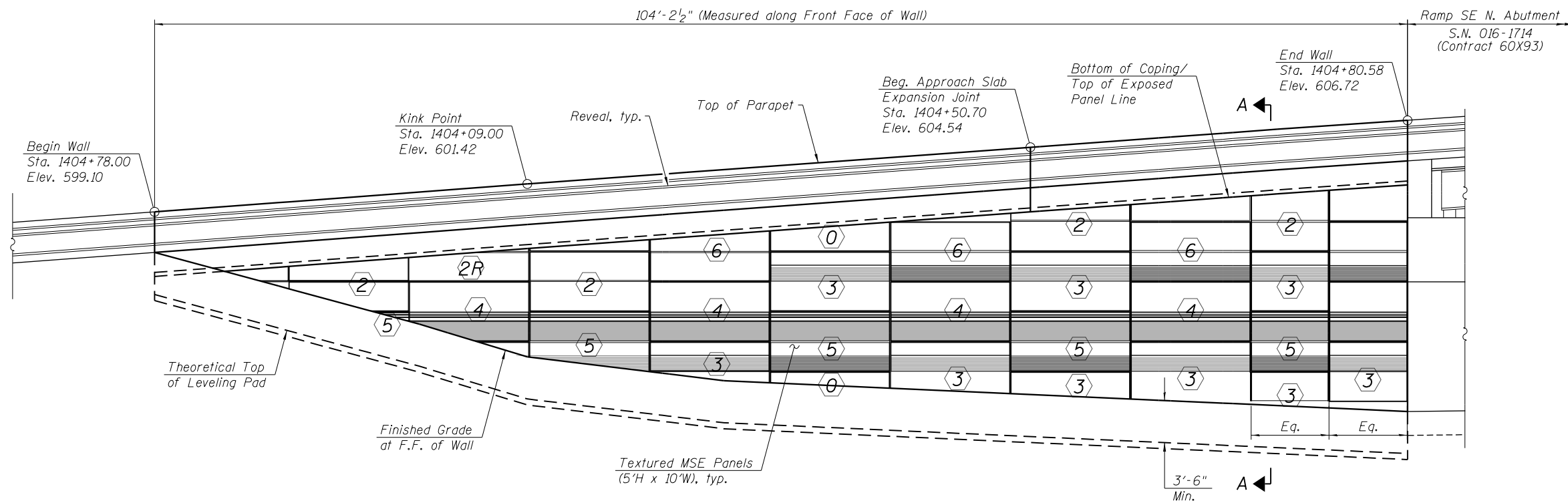
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STATE OF ILLINOIS  
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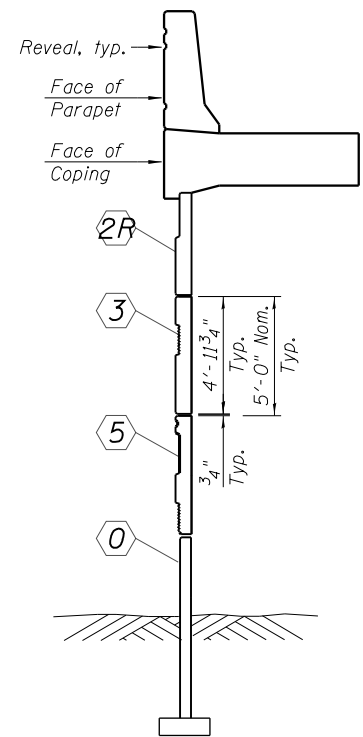
PARAPET AND ANCHORAGE SLAB DETAILS  
 RETAINING WALL 48 (STRUCTURE NO. 016-1835)

SHEET NO. S10-06 OF S10-11 SHEETS

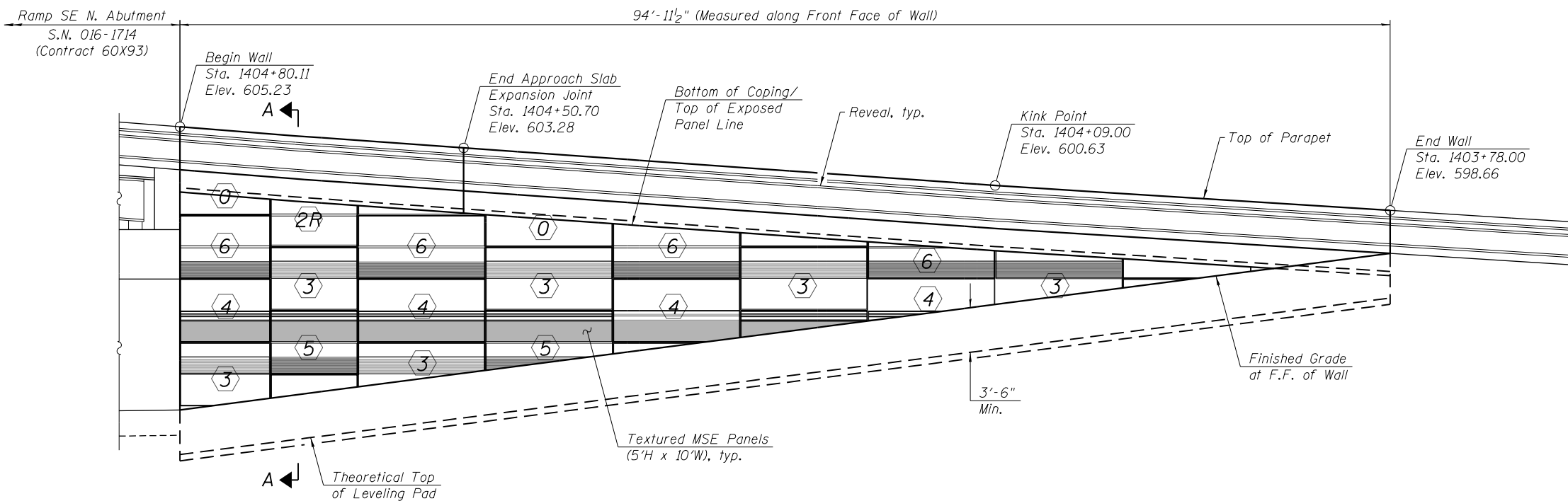
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90/94/290	2014-013 R&B-R	COOK	1972	1104
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				



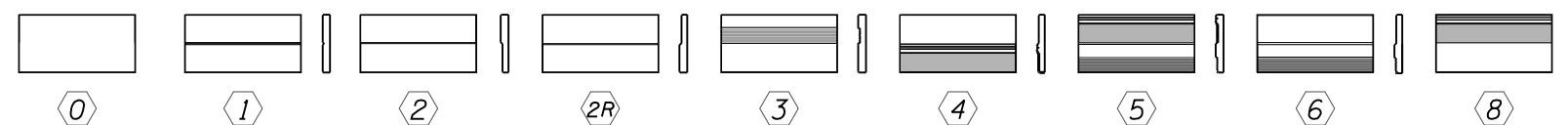
**RIGHT ELEVATION - PRECAST PANEL LAYOUT**  
(Looking East at F.F. of Wall)



**SECTION A-A**



**LEFT ELEVATION - PRECAST PANEL LAYOUT**  
(Looking West at F.F. of Wall)



**PRECAST PANEL TYPES**

**Notes:**  
For Precast Panel and Formliner pattern details, see Retaining Wall 14 (S.N. 016-1803) Plans.  
Textured formliner for precast panels will not be paid separately and will be included in the cost of Mechanical Stabilized Earth Retaining Wall, Special.  
MSE Supplier to determine precast panel dimensions based on proprietary design. The suggested 10'-0" nominal width shown here may change depending on supplier. If this is the case, it will be addressed by the engineer and coordinated with the supplier during the shop drawing submittal and reviews.

3/11/14 PM 0161835-60X93-5007-Architectural.dgn



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PLOT DATE = 7/26/2018	CHECKED - KRS/WJC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL DETAILS  
RETAINING WALL 48 (STRUCTURE NO. 016-1835)**

SHEET NO. S10-07 OF S10-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1105
CONTRACT NO.			60X93	

ILLINOIS FED. AID PROJECT

**GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS**

Equivalent Uniform Service Bearing Pressure shall be 1,400 psf.

The Shop Drawings and construction procedures submittal shall indicate the sequence of construction within the limits of Aggregate Column Ground Improvement.

The aggregate column installation shall be coordinated with existing utilities, existing structural removals, and proposed utility installation.

Settlement during construction shall not exceed 3 inches, and settlement after completion of the wall and anchorage slab shall not exceed 1 inch.

Minimum factor of safety for Equivalent Uniform Service Bearing Pressure shall be 2.5.

A minimum factor of safety of 1.5 against global stability failure is required for the design of the Aggregate Column Ground Improvements. See Special Provision for more information.

**Notes:**

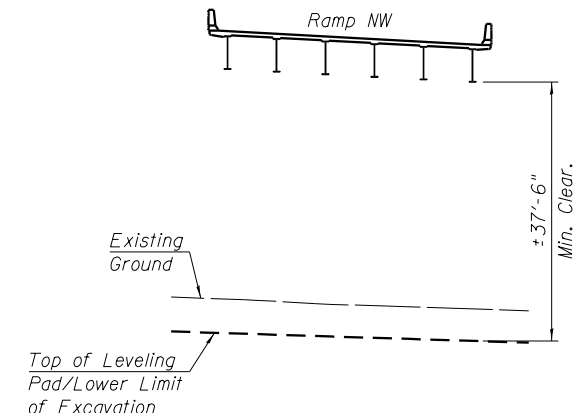
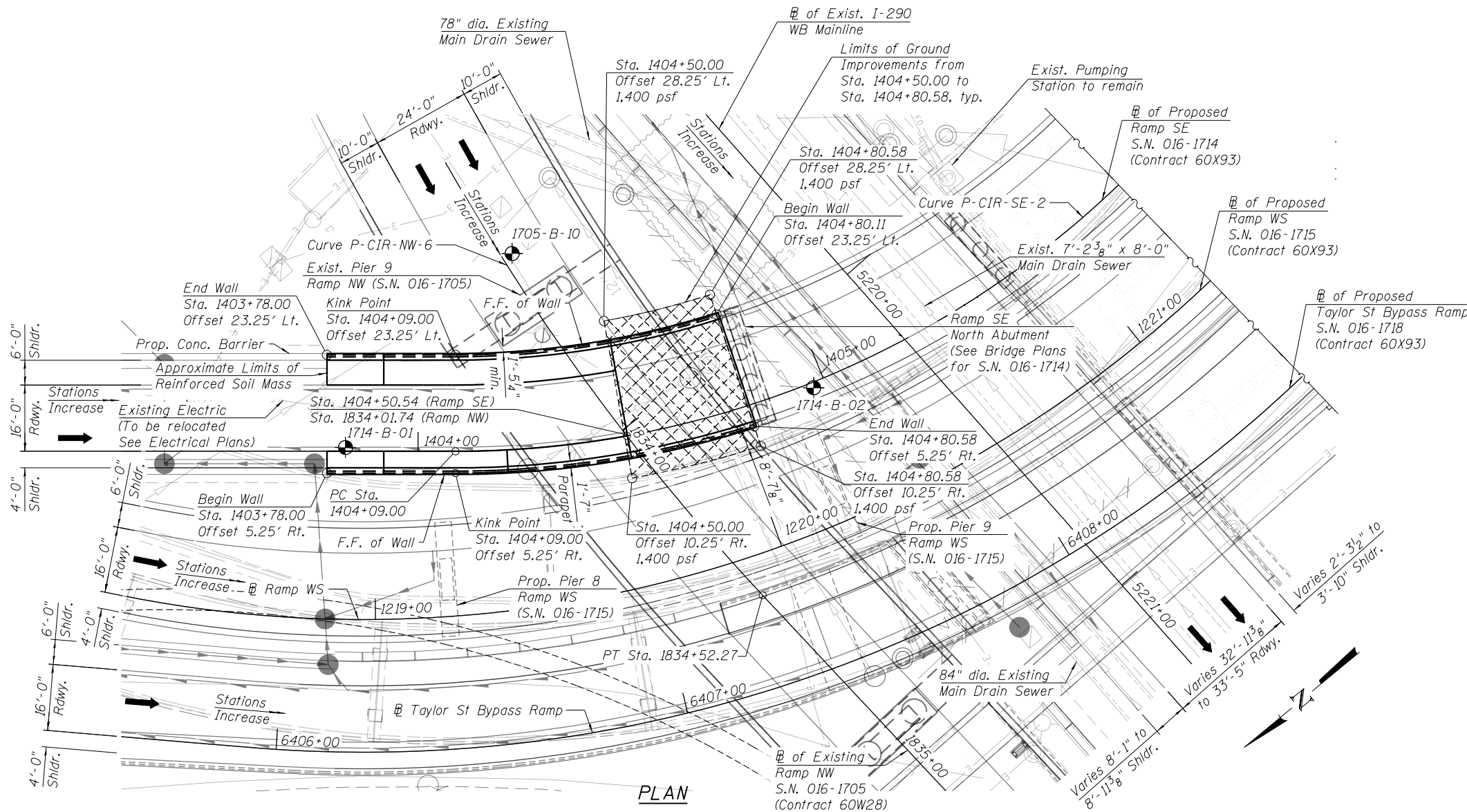
Aggregate column ground improvement shall be designed and installed by the Contractor in accordance with special provision for Aggregate Column Ground Improvement.

Within the Limits of Structure Excavation, depth of the aggregate column for Aggregate Column Ground Improvement will be measured from Top of Leveling Pad to Bottom of the Aggregate Column.

The Contractor shall field verify location of existing underground utilities. The Contractor shall take all precautions to protect existing utilities during construction of the wall. Any damages to the existing utilities shall be the responsibility of the Contractor.

Aggregate Ground Improvement for Retaining Wall 48 covers approximately 1,125 Sq. Ft.

See Sheet S10-03 of S10-11 for section view of ground improvement.



**OVERHEAD CLEARANCE DETAIL**

(Looking East)

**LEGEND**

- Soil Boring
- Aggregate Column Ground Improvements

**BILL OF MATERIAL**

Item	Unit	Total
Aggregate Column Ground Improvement	L. Sum	0.2

3/11/21 PM 0161835-60X93-S008-AggCol\_GroundImprov.dgn



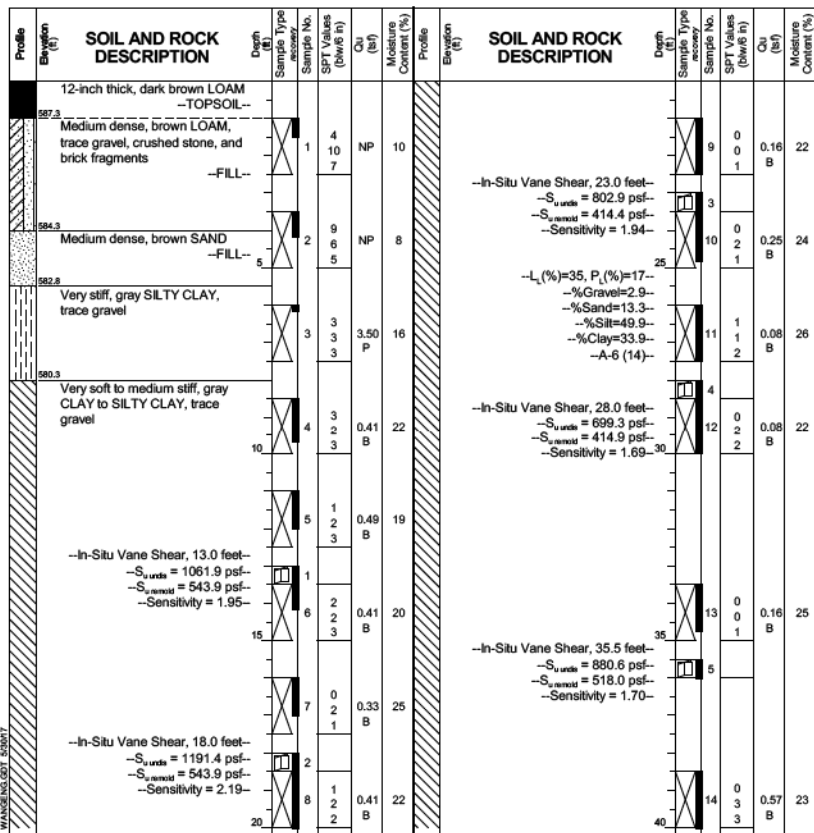
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

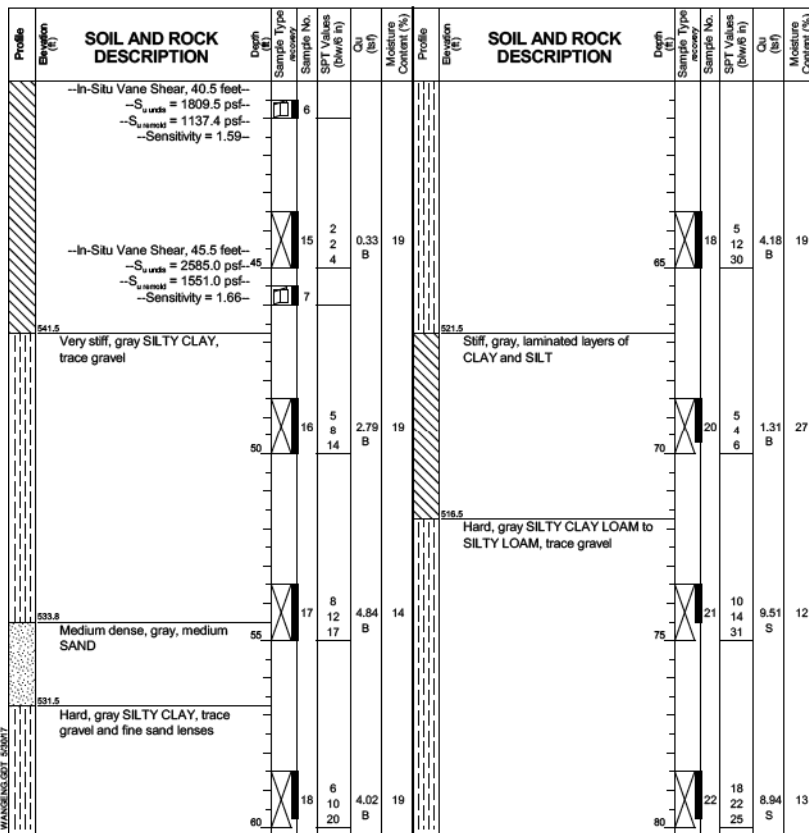
**AGGREGATE COLUMN GROUND IMPROVEMENT DETAILS  
RETAINING WALL 48 (STRUCTURE NO. 016-1835)**

SHEET NO. S10-08 OF S10-11 SHEETS

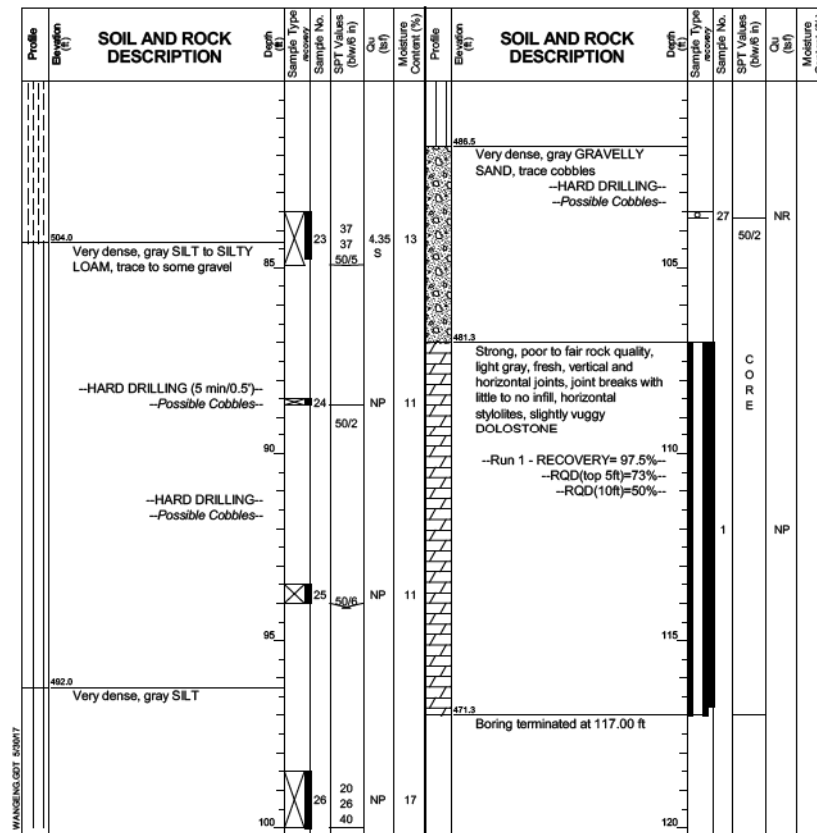
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CONTRACT NO. 60X93			ILLINOIS FED. AID PROJECT	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-30-2013	Complete Drilling	08-01-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR (85%)
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Depth to Water	NA
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring	At Completion of Drilling	☑ mud in the borehole
	backfilled upon completion	Time After Drilling	NA
		Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring
			backfilled upon completion



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-30-2013	Complete Drilling	08-01-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR (85%)
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Depth to Water	NA
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring	At Completion of Drilling	☑ mud in the borehole
	backfilled upon completion	Time After Drilling	NA
		Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring
			backfilled upon completion



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-30-2013	Complete Drilling	08-01-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR (85%)
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Depth to Water	NA
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring	At Completion of Drilling	☑ mud in the borehole
	backfilled upon completion	Time After Drilling	NA
		Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring
			backfilled upon completion

Notes:  
 Boring Log 1705-B-10 station and offset along @ Ramp SE is:  
 Sta. 1404+26.18, Offset 47.20' Lt.

3/11/26 PM 0161835-60X93-5009-Boring-1.dgn



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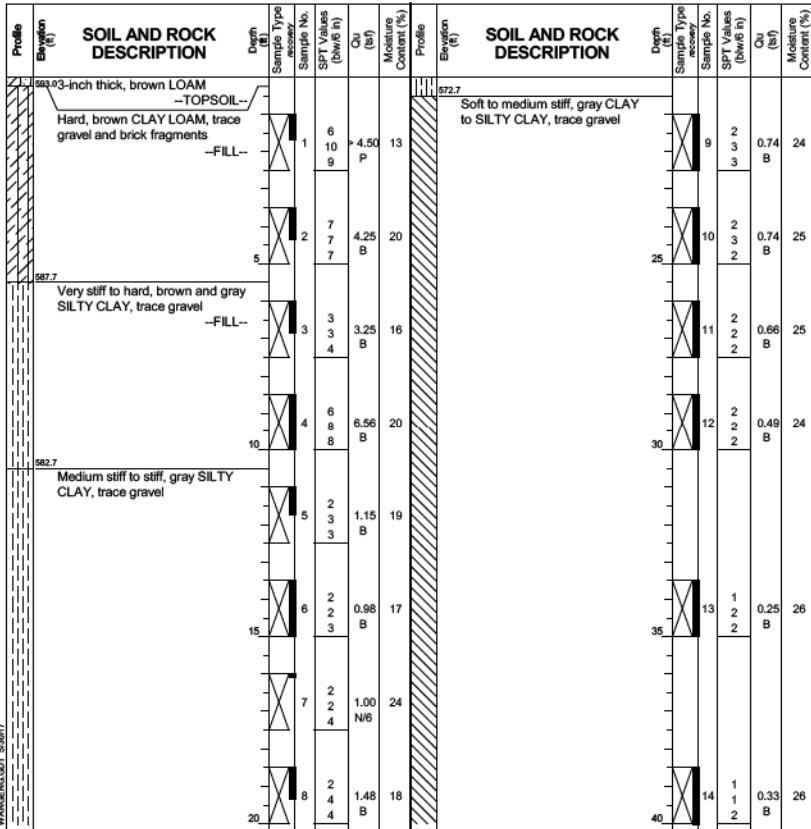
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**BORING LOGS 1**  
**RETAINING WALL 48 (STRUCTURE NO. 016-1835)**

SHEET NO. S10-09 OF S10-11 SHEETS

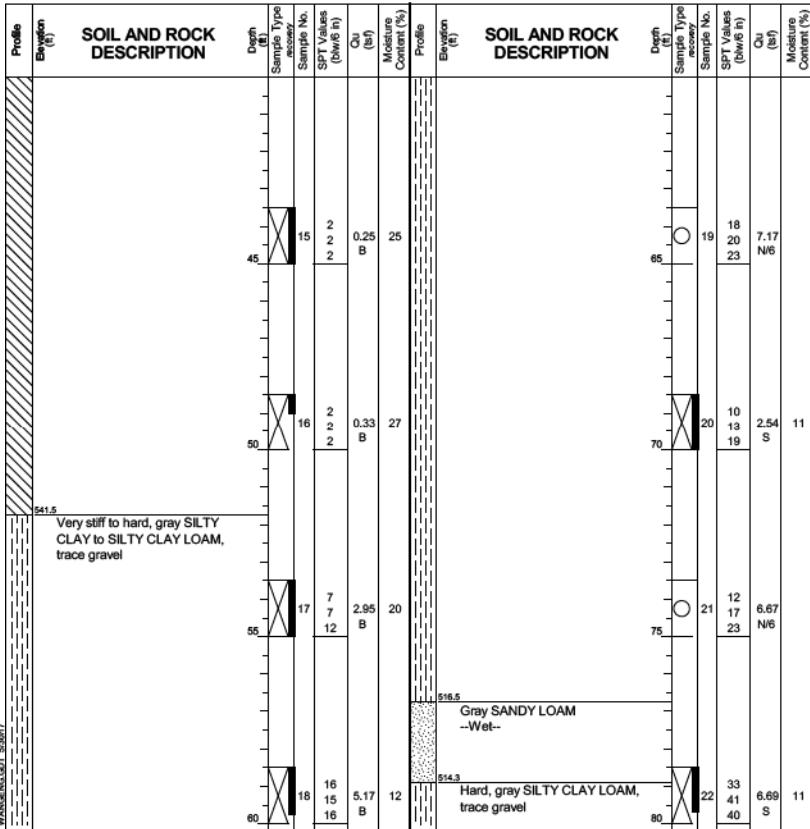
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90/94/290	2014-013 R&B-R	COOK	1972	1107
			CONTRACT NO.	60X93
ILLINOIS FED. AID PROJECT				


**BORING LOG 1714-B-01**  
 WEI Job No.: 1100-04-01  
 Client: AECOM  
 Project: Circle Interchange Reconstruction  
 Location: Section 17, T39N, R14E of 3rd PM  
 Datum: NAVD 88  
 Elevation: 593.22 ft  
 North: 1898191.77 ft  
 East: 1171304.89 ft  
 Station: 1403+82.49  
 Offset: 0.9133 LT  
 Page 1 of 3



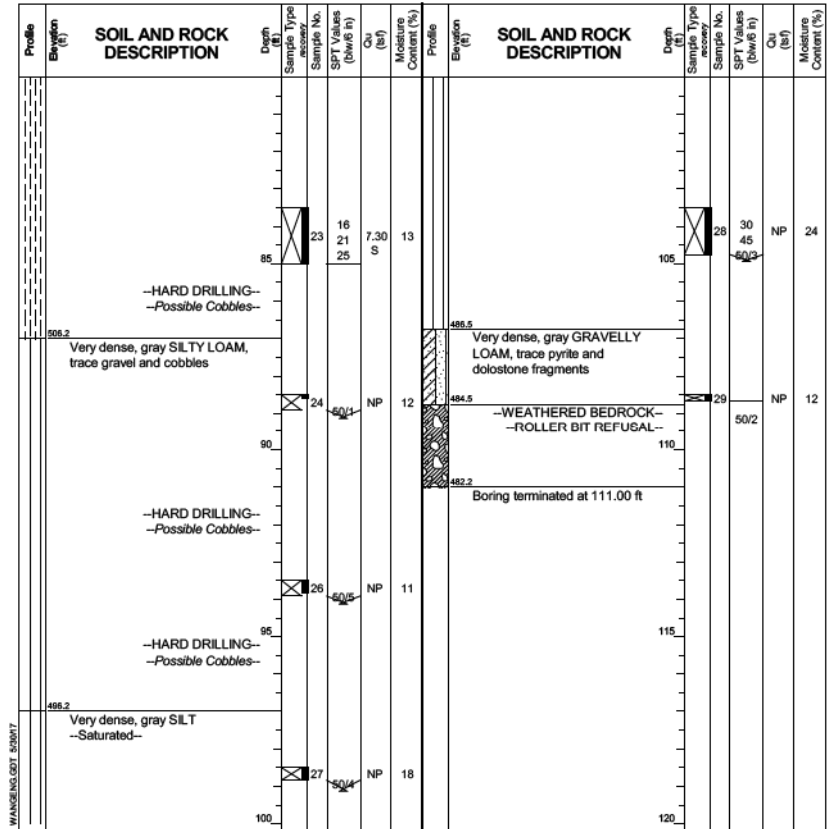
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-16-2013	White Drilling	<input checked="" type="checkbox"/> Rotary wash
Complete Drilling	10-16-2013	At Completion of Drilling	<input checked="" type="checkbox"/> mud in the borehole
Drilling Contractor	Wang Testing Services, Drill Rig CME-55 TMR [85%]	Time After Drilling	NA
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Depth to Water	<input checked="" type="checkbox"/> NA
Drilling Method	2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion	The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	


**BORING LOG 1714-B-01**  
 WEI Job No.: 1100-04-01  
 Client: AECOM  
 Project: Circle Interchange Reconstruction  
 Location: Section 17, T39N, R14E of 3rd PM  
 Datum: NAVD 88  
 Elevation: 593.22 ft  
 North: 1898191.77 ft  
 East: 1171304.89 ft  
 Station: 1403+82.49  
 Offset: 0.9133 LT  
 Page 2 of 3



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-16-2013	White Drilling	<input checked="" type="checkbox"/> Rotary wash
Complete Drilling	10-16-2013	At Completion of Drilling	<input checked="" type="checkbox"/> mud in the borehole
Drilling Contractor	Wang Testing Services, Drill Rig CME-55 TMR [85%]	Time After Drilling	NA
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Depth to Water	<input checked="" type="checkbox"/> NA
Drilling Method	2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion	The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	


**BORING LOG 1714-B-01**  
 WEI Job No.: 1100-04-01  
 Client: AECOM  
 Project: Circle Interchange Reconstruction  
 Location: Section 17, T39N, R14E of 3rd PM  
 Datum: NAVD 88  
 Elevation: 593.22 ft  
 North: 1898191.77 ft  
 East: 1171304.89 ft  
 Station: 1403+82.49  
 Offset: 0.9133 LT  
 Page 3 of 3



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-16-2013	White Drilling	<input checked="" type="checkbox"/> Rotary wash
Complete Drilling	10-16-2013	At Completion of Drilling	<input checked="" type="checkbox"/> mud in the borehole
Drilling Contractor	Wang Testing Services, Drill Rig CME-55 TMR [85%]	Time After Drilling	NA
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Depth to Water	<input checked="" type="checkbox"/> NA
Drilling Method	2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion	The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

Notes:  
Station and offsets are measured along @ Ramp SE.

3:11:30 PM  
0161835-60X93-5010-Boring-2.dgn

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				BORING LOGS 2 RETAINING WALL 48 (STRUCTURE NO. 016-1835)		F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				SHEET NO. S10-10 OF S10-11 SHEETS		90/94/290		2014-013 R&B-R	COOK	1972	1108
USER NAME = wjcollett DESIGNED - DJG CHECKED - KRS PLOT SCALE = 0.1667' / in. DRAWN - MJR PLOT DATE = 7/26/2018 CHECKED - KRS/WJC REVISED -											CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT											

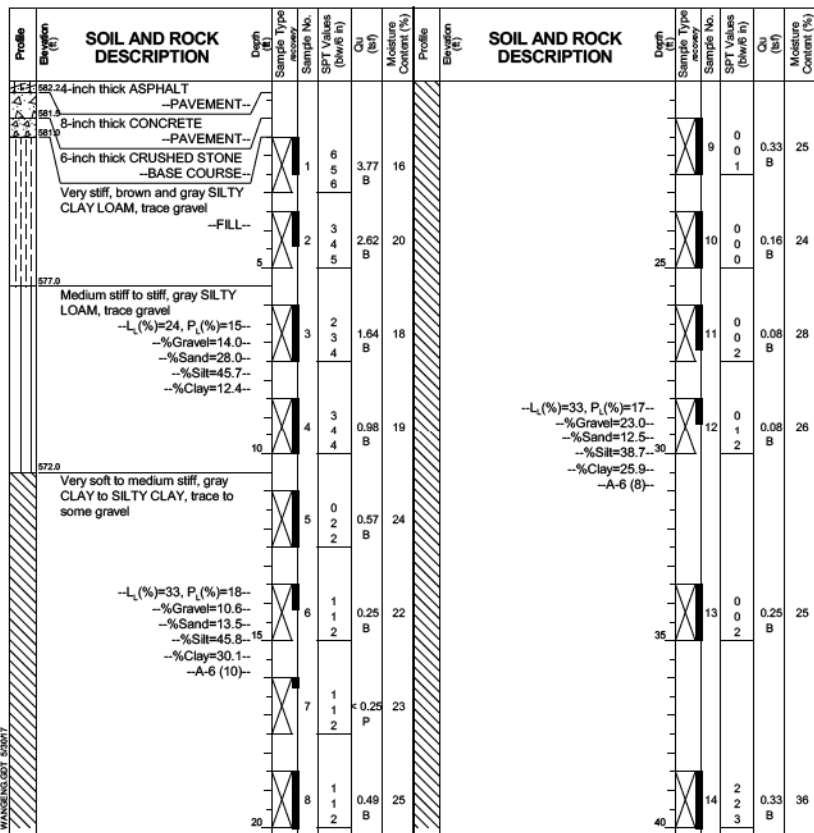


**Wang Engineering**  
wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**BORING LOG 1714-B-02**  
WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 582.53 ft  
North: 1898095.52 ft  
East: 1171244.20 ft  
Station: 1404+96.98  
Offset: 1.3189 RT

Page 1 of 3



**GENERAL NOTES**  
Begin Drilling 10-08-2013 Complete Drilling 10-08-2013  
Drilling Contractor Wang Testing Services, Drill Rig D-50 TMR [78%]  
Driller R&R, Logger D. Kolpacki, Checked by C. Marin  
Drilling Method 3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

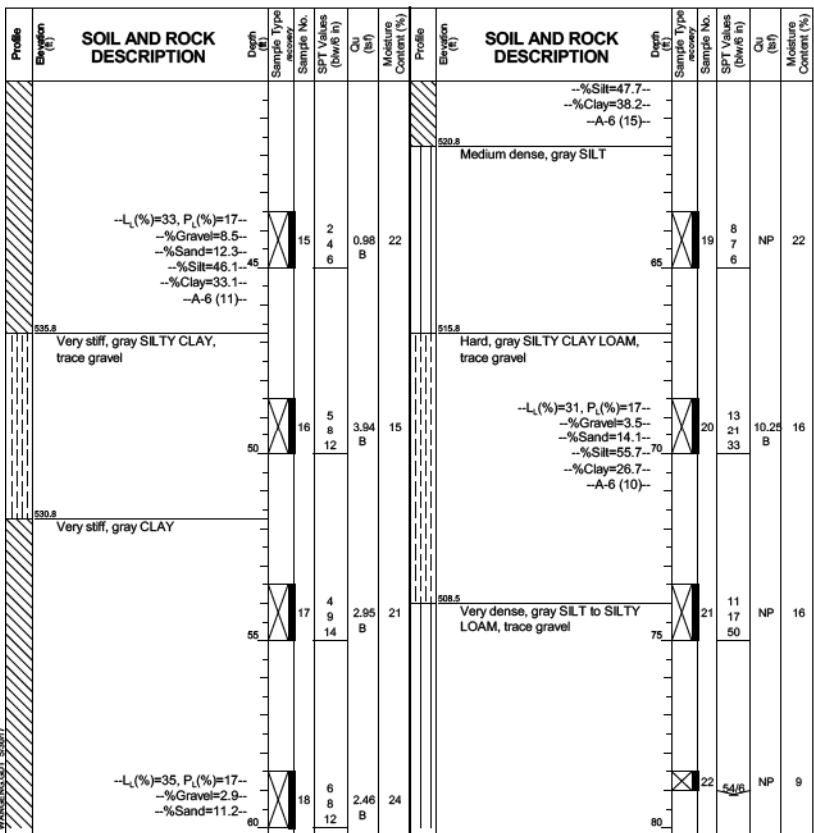
**WATER LEVEL DATA**  
While Drilling  DRY  
At Completion of Drilling  mud in the borehole  
Time After Drilling NA  
Depth to Water  NA

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

**BORING LOG 1714-B-02**  
WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 582.53 ft  
North: 1898095.52 ft  
East: 1171244.20 ft  
Station: 1404+96.98  
Offset: 1.3189 RT

Page 2 of 3



**GENERAL NOTES**  
Begin Drilling 10-08-2013 Complete Drilling 10-08-2013  
Drilling Contractor Wang Testing Services, Drill Rig D-50 TMR [78%]  
Driller R&R, Logger D. Kolpacki, Checked by C. Marin  
Drilling Method 3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

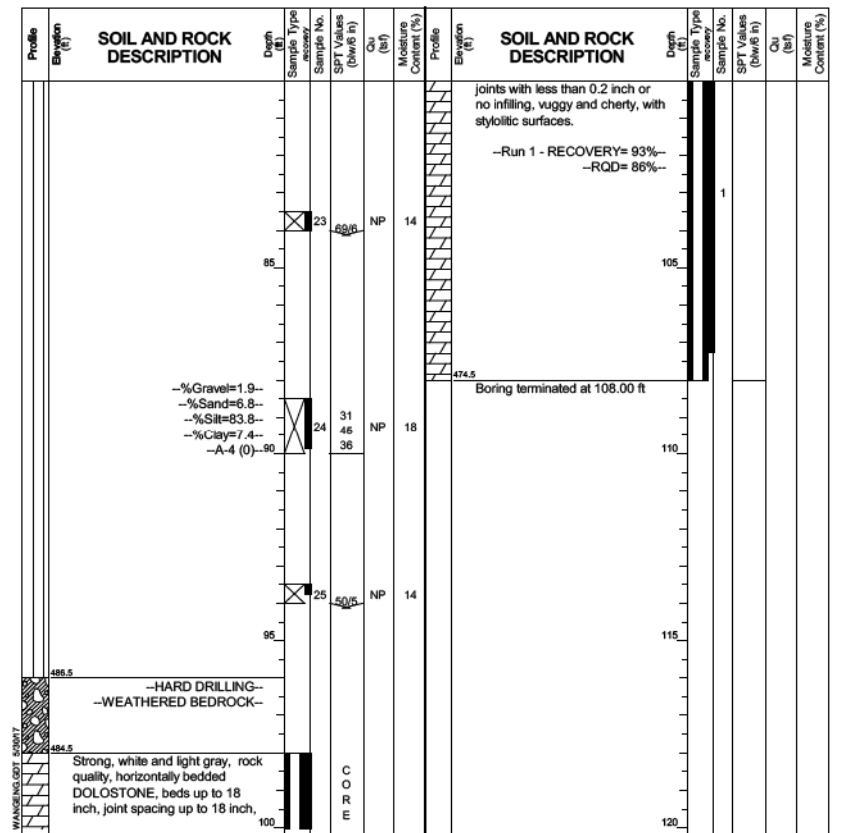
**WATER LEVEL DATA**  
While Drilling  DRY  
At Completion of Drilling  mud in the borehole  
Time After Drilling NA  
Depth to Water  NA

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

**BORING LOG 1714-B-02**  
WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 582.53 ft  
North: 1898095.52 ft  
East: 1171244.20 ft  
Station: 1404+96.98  
Offset: 1.3189 RT

Page 3 of 3



**GENERAL NOTES**  
Begin Drilling 10-08-2013 Complete Drilling 10-08-2013  
Drilling Contractor Wang Testing Services, Drill Rig D-50 TMR [78%]  
Driller R&R, Logger D. Kolpacki, Checked by C. Marin  
Drilling Method 3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

**WATER LEVEL DATA**  
While Drilling  DRY  
At Completion of Drilling  mud in the borehole  
Time After Drilling NA  
Depth to Water  NA

3/11/13 3:33 PM  
0161835-60X93-5011-Bor-Log\_3.dgn



USER NAME = wjcollett	DESIGNED - DJG	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - KRS	REVISED -
PLOT DATE = 7/26/2018	DRAWN - MJR	REVISED -
	CHECKED - KRS/WJC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3  
RETAINING WALL 48 (STRUCTURE NO. 016-1835)

SHEET NO. S10-11 OF S10-11 SHEETS

Notes:  
Station and offsets are measured along @ Ramp SE.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1109
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				

Bench Mark: Chisel "X" on chain bolt of fire hydrant in front of 555 W. Harrison St. Elev. 594.46.

Existing Structure: Existing Retaining Wall 12. Constructed in 1987 under Sections 2526.6-IP-R-3, 2626.2-2B-DM, and 0101.6-IP-R(85). Reinforced concrete cantilever wall on steel H piles. Total length of 914'-4 3/8" from Harrison Street to Taylor Street. Exposed height varies 2'-10" to 18'-3". The existing fence and top part of the wall is to be removed and replaced with a concrete parapet on anchorage slab.

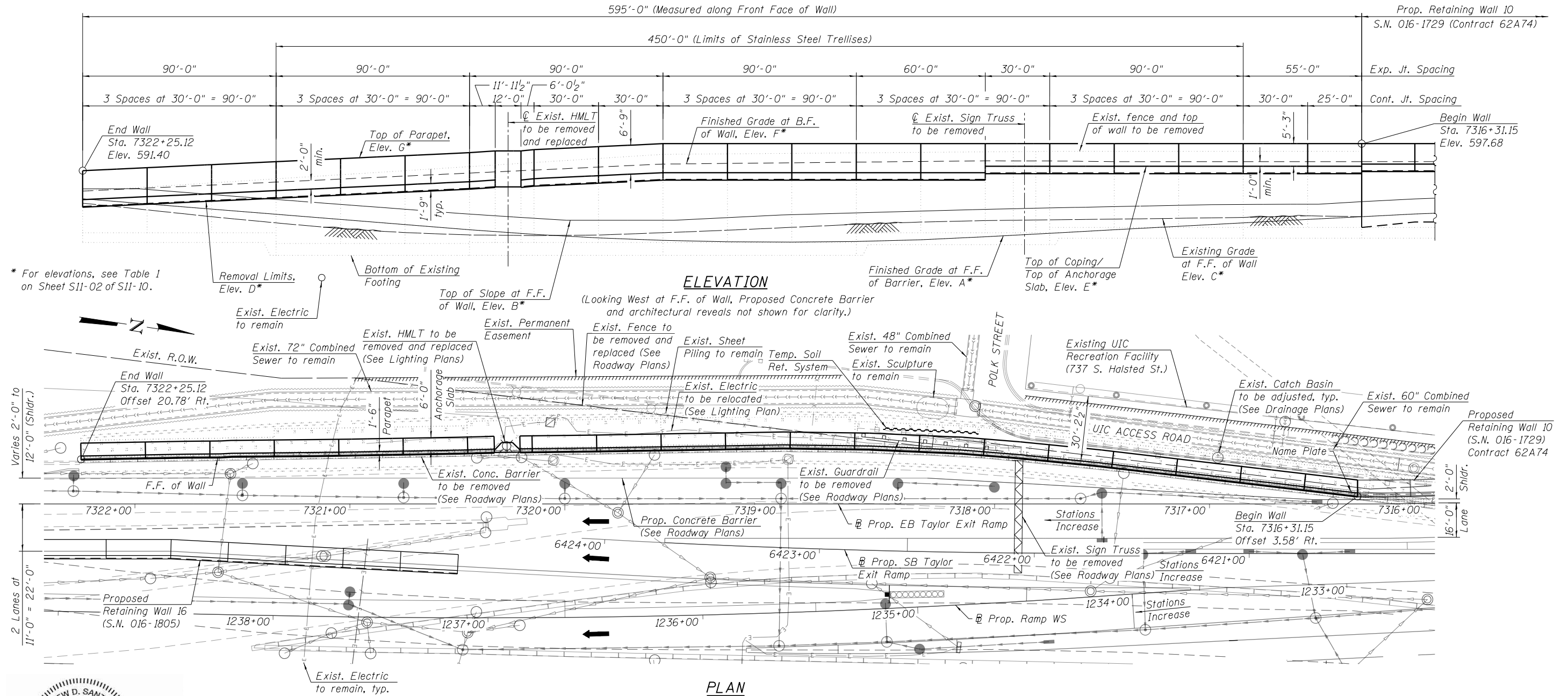
Existing Taylor Exit Ramp will be closed during construction.

No Salvage.

**SCOPE OF WORK:**

1. Remove existing fence and wall to elevation specified in Elevation View.
2. Repair spalls, delaminated concrete, and cracks on the front face of existing wall.
3. Replace top portion of existing wall with parapet on top of anchorage slab.

Notes:  
F.F. denotes Front Face.  
B.F. denotes Back Face.



**ELEVATION**  
(Looking West at F.F. of Wall, Proposed Concrete Barrier and architectural reveals not shown for clarity.)

**PLAN**

**MATTHEW D. SANTEFORD**  
081-007244  
LICENSED STRUCTURAL ENGINEER OF ILLINOIS  
07/30/2018  
MATTHEW D. SANTEFORD, P.E., S.E.  
NO. 081-007244  
EXP. DATE 11/30/2018

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition  
2017 AASHTO LRFD Bridge Design Specifications 8th Edition

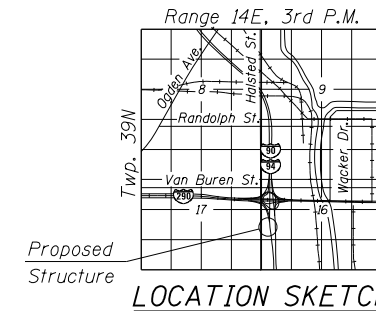
**DESIGN STRESSES**

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

**EXISTING UNITS**  
fc = 1,200 psi  
fs = 20,000 psi (Reinforcement)

**LEGEND:**

- Ex. Chain Link Fence — x —
- Ex. Combined Sewer —>>>>>
- Ex. Electric — E —
- Ex. Storm Sewer —>>>>>
- Prop. Storm Sewer —>>>>>



**GENERAL PLAN AND ELEVATION  
EXISTING RETAINING WALL 12 ALONG  
EB TAYLOR EXIT RAMP  
SECTION 2014-013 R&B-R  
COOK COUNTY  
STATION 7316+31.15 TO STATION 7322+25.12  
STRUCTURE NO. 016-2311**

5:34:59 PM 0162311-60X93-S001-gPE.dgn



USER NAME = wjcollett	DESIGNED - TJA	REVISED -
PLOT SCALE = 48:0 "/td> <td>CHECKED - WJC/MDS</td> <td>REVISED -</td>	CHECKED - WJC/MDS	REVISED -
PLOT DATE = 7/26/2018	DRAWN - TJA	REVISED -
	CHECKED - WJC/MDS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SHEET NO. S11-01 OF S11-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1110
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES:**

- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans and Retaining Wall 10 Plans (Contract No. 62A74) 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 work.
- The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, and other loads applied to the structures will not have detrimental effects on the adjacent building foundations. Any damage during construction shall be repaired by the Contractor at his expense and no charge to the department. Driving piles and temporary sheet piling is not allowed.
- The Contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provision for Construction Vibration Monitoring and Monitoring Adjacent Structures, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/ construction activities to satisfy these requirements. See Contract Special Provisions for details.
- Slipforming of parapets is not allowed.
- Concrete Sealer shall be applied to the exposed surfaces of the Anchorage Slab, Parapet, and existing front face of the retaining wall.
- Stations and offsets are measured from the  $\text{R}$  of Proposed EB Taylor Exit Ramp to the front face of the existing wall.
- Wall repair locations are approximate and were determined from field inspection performed at the time of plan preparation. The necessary adjustments based on current field conditions will be made at time of construction. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the actual quantity furnished at the unit price bid for the work.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- Existing reinforcing steel which is exposed by the concrete repair process, but is to remain embedded in the existing structure and reused, shall be cleaned to be free of existing concrete and rust, and straightened if necessary. Existing reinforcing steel which is cut, stretched or damaged by the Contractor during the concrete repair process shall be replaced by embedded reinforcing steel or anchorage, equal to or greater than the size of original reinforcing steel, at no cost to the Department. See Special Provisions for Structural Repair of Concrete.
- The Contractor shall take precautions not to damage existing retaining wall during the construction. Any damage to the existing retaining wall shall be repaired by the Contractor at no additional cost.

**INDEX OF SHEETS**

- S11-01 General Plan and Elevation
- S11-02 General Data
- S11-03 Typical Cross Sections and Details
- S11-04 Repair and Removal Plans 1
- S11-05 Repair and Removal Plans 2
- S11-06 Parapet and Anchorage Slab Plan and Elevation 1
- S11-07 Parapet and Anchorage Slab Plan and Elevation 2
- S11-08 Parapet and Anchorage Slab Details
- S11-09 Mechanical Splicer Details
- S11-10 Architectural Details

**TABLE 1 - WALL ELEVATIONS**

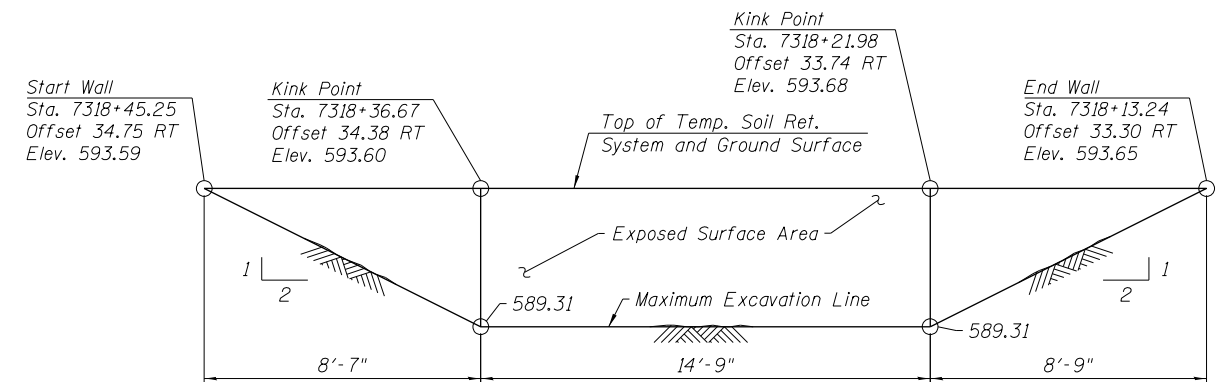
Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
7316+31.15	3.58' Rt.	580.69	584.19	581.17	590.81	592.43	593.49	597.68
7316+56.12	6.53' Rt.	580.06	583.59	580.89	590.81	592.43	593.49	597.68
7316+85.91	10.04' Rt.	579.26	583.53	580.52	590.81	592.43	593.49	597.68
7317+15.71	13.52' Rt.	578.45	583.34	580.32	590.81	592.43	593.49	597.68
7317+45.51	16.99' Rt.	577.64	583.03	580.13	590.81	592.43	593.49	597.68
7317+75.35	20.09' Rt.	576.83	582.72	579.96	590.81	592.43	593.66	597.68
* 7318+05.23	22.76' Rt.	576.02	582.39	579.78	590.81	592.43	593.68	597.68
** 7318+05.23	22.76' Rt.	576.02	582.39	579.78	589.31	590.93	593.68	597.68
7318+35.18	24.43' Rt.	575.33	581.98	579.45	589.31	590.93	593.53	597.68
7318+65.16	25.54' Rt.	574.93	581.57	578.92	589.31	590.93	593.38	597.68
7318+95.16	25.95' Rt.	574.77	581.17	578.21	589.31	590.93	593.23	597.68
7319+25.16	25.53' Rt.	574.86	580.48	577.54	589.31	590.93	593.08	597.68
7319+55.15	25.06' Rt.	575.19	579.87	576.97	589.31	590.93	592.93	597.68
7319+85.15	24.58' Rt.	575.77	579.85	576.41	588.61	590.23	592.23	596.98
7320+15.15	24.21' Rt.	576.58	580.33	576.30	587.91	589.53	591.53	596.28
7320+45.14	23.67' Rt.	577.64	581.29	576.44	587.21	588.84	590.84	595.59
7320+75.14	23.11' Rt.	578.84	582.41	576.98	586.51	588.14	590.14	594.89
7321+05.13	22.59' Rt.	580.04	583.56	577.91	585.82	587.44	589.44	594.19
7321+35.13	22.27' Rt.	581.24	584.70	579.25	585.12	586.74	588.74	593.49
7321+65.13	21.74' Rt.	582.44	585.86	580.68	584.42	586.05	588.05	592.80
7321+95.12	21.33' Rt.	583.64	587.03	582.28	583.72	585.35	587.35	592.10
7322+25.12	20.78' Rt.	584.84	587.14	583.83	583.03	584.65	586.65	591.40

STATION 7316+31.15 TO 7322+25.12  
RE-BUILT 20-- BY  
STATE OF ILLINOIS  
F.A.I. RTE. 90/94/290  
SEC. 2014-013 R&B-R  
LOADING HL-93  
STRUCTURE NO. 016-2311

**NAME PLATE**

See Std. 515001  
Existing Name Plate shall be cleaned and relocated next to new Name Plate.  
Cost included with Name Plates.

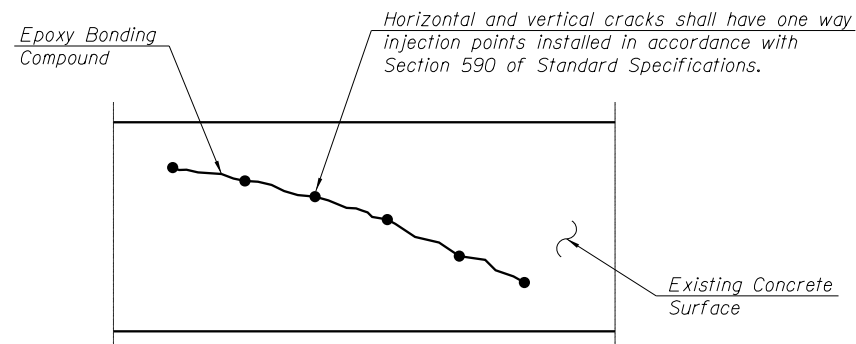
Elevation A- Finished Grade at Front Face of Barrier  
Elevation B- Top of Slope at Front Face of Wall  
Elevation C- Existing Grade at Front Face of Wall  
Elevation D- Removal Limits  
Elevation E- Top of Coping / Top of Anchorage Slab  
Elevation F- Finished Grade at Back Face of Wall  
Elevation G- Top of Parapet  
\* Elevations just to the right of joint  
\*\* Elevations just to the left of joint



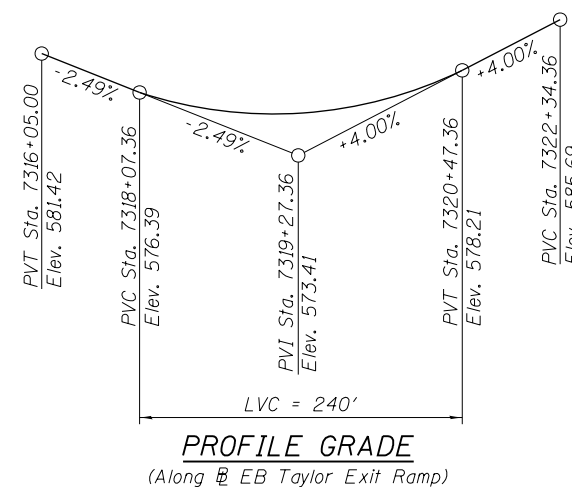
**TEMPORARY SOIL RETENTION SYSTEM ELEVATION**

**TOTAL BILL OF MATERIAL**

Item	Unit	Total Quantity
Concrete Removal	Cu. Yd.	124
Structure Excavation	Cu. Yd.	577
Concrete Superstructure	Cu. Yd.	436.3
Reinforcement Bars, Epoxy Coated	Pound	52,500
Mechanical Splicers	Each	24
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	102
Concrete Sealer	Sq. Ft.	11,481
Epoxy Crack Injection	Foot	191
Stainless Steel Cable Plant Support System	L. Sum	1
Chain Link Fence Removal (Special)	Foot	595
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	13



**EPOXY CRACK INJECTION**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL DATA  
EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)

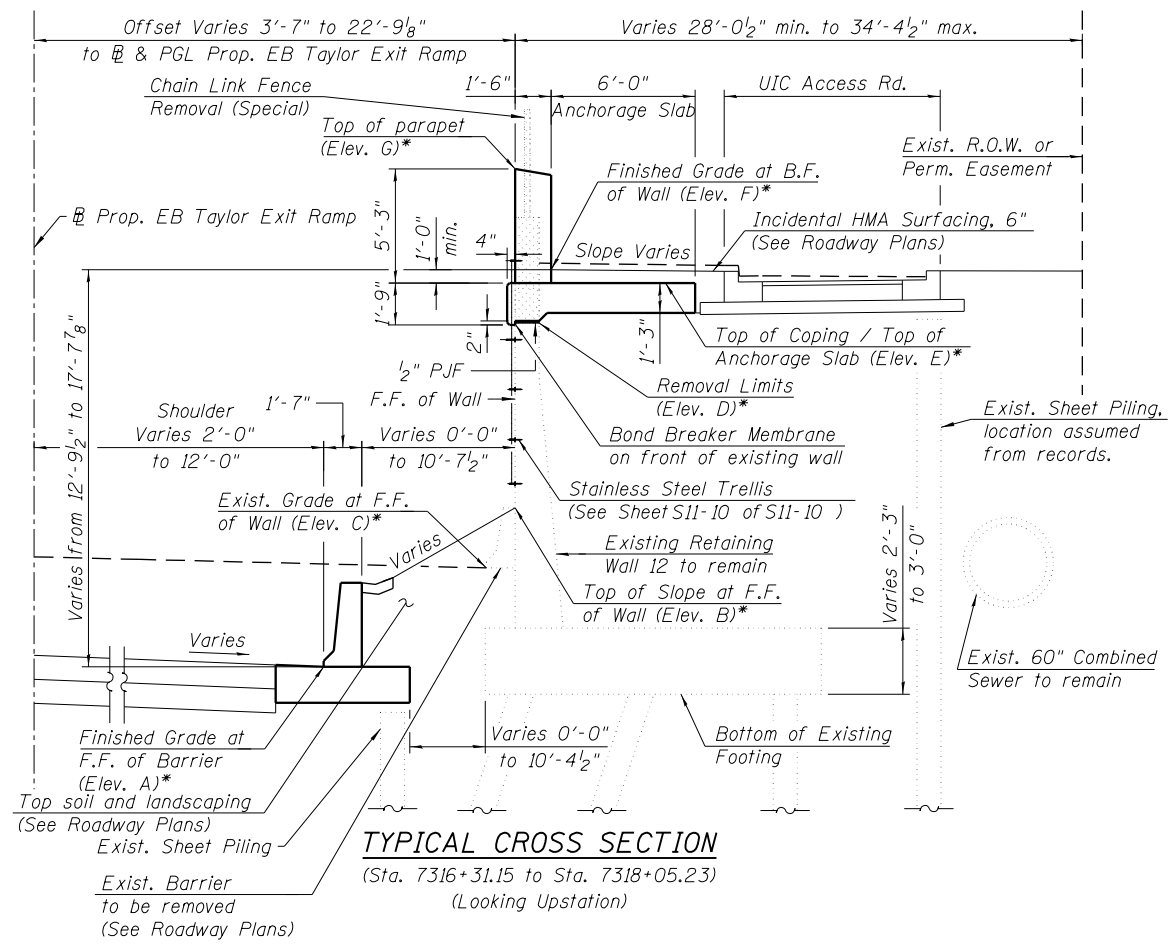
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1111
CONTRACT NO.			60X93	

SHEET NO. S11-02 OF S11-10 SHEETS

ILLINOIS FED. AID PROJECT

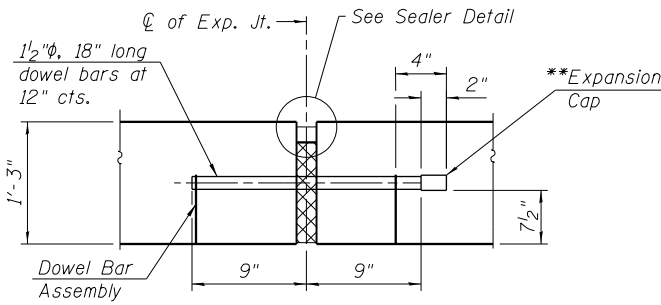


USER NAME = wjcollett	DESIGNED - TJA	REVISED -
PLOT SCALE = 0.17' / in.	CHECKED - WJC/MDS	REVISED -
PLOT DATE = 7/26/2018	DRAWN - TJA	REVISED -
	CHECKED - WJC/MDS	REVISED -



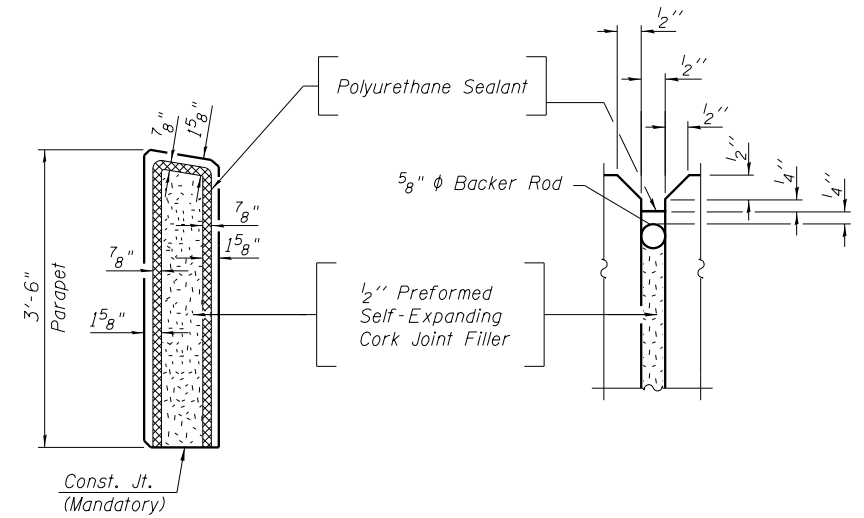
**TYPICAL CROSS SECTION**  
(Sta. 7316+31.15 to Sta. 7318+05.23)  
(Looking Upstation)

**TRANSVERSE CONTRACTION JOINT**  
See Article 420.05 & 420.12 of the Standard Specifications

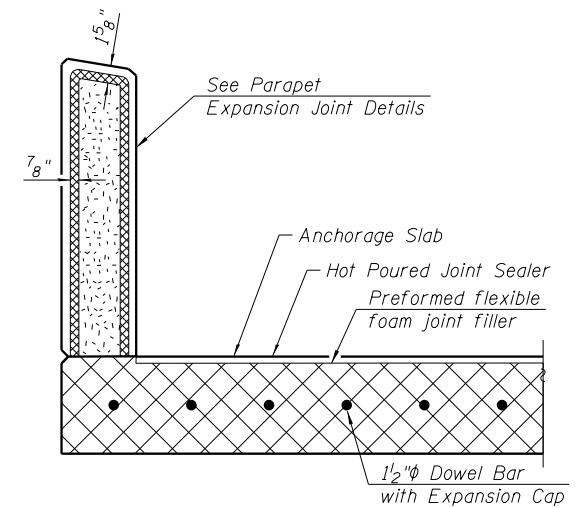


**ANCHORAGE SLAB TO ANCHORAGE SLAB TRANSVERSE EXPANSION JOINT**  
Expansion Joint Filler, Sealer and Dowel Bars included in cost of Concrete Superstructure.

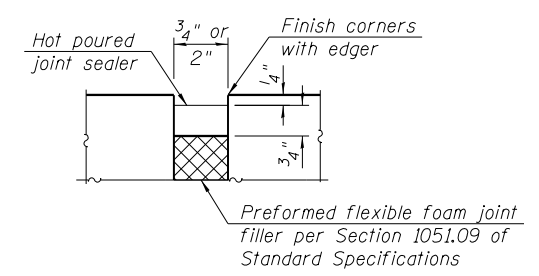
\*\*Expansion caps shall be installed on the exposed end of each dowel bar once header has been removed and the joint filler material has been installed.



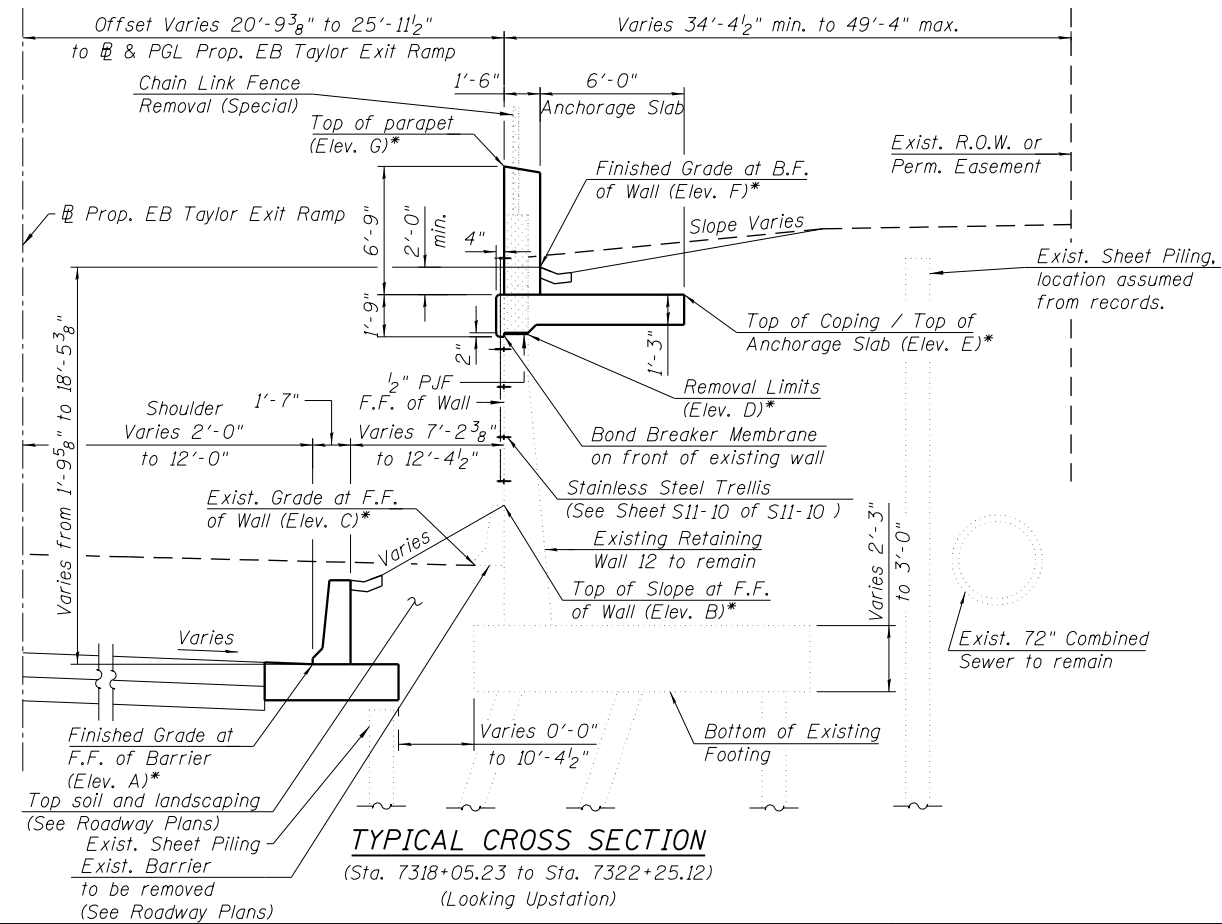
**PARAPET EXPANSION JOINT DETAILS**



**TRANSVERSE EXPANSION JOINT SECTION**



**SEALER DETAIL**



**TYPICAL CROSS SECTION**  
(Sta. 7318+05.23 to Sta. 7322+25.12)  
(Looking Upstation)

\*For elevations, see Table 1 on sheet S11-02 of S11-10.

**LEGEND:**

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

- Concrete Removal

Notes:  
All edges shall be chamfered 3/4 inches.  
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
1/2" PJF included in cost of Concrete Superstructure.

3:15:00 PM 01/23/11-60X93-S003-Typical.XS.dgn



USER NAME = wjcolletti	DESIGNED - TJA	REVISED -
	CHECKED - WJC/MDS	REVISED -
PLOT SCALE = 0.17' / in.	DRAWN - TJA	REVISED -
PLOT DATE = 7/26/2018	CHECKED - WJC/MDS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

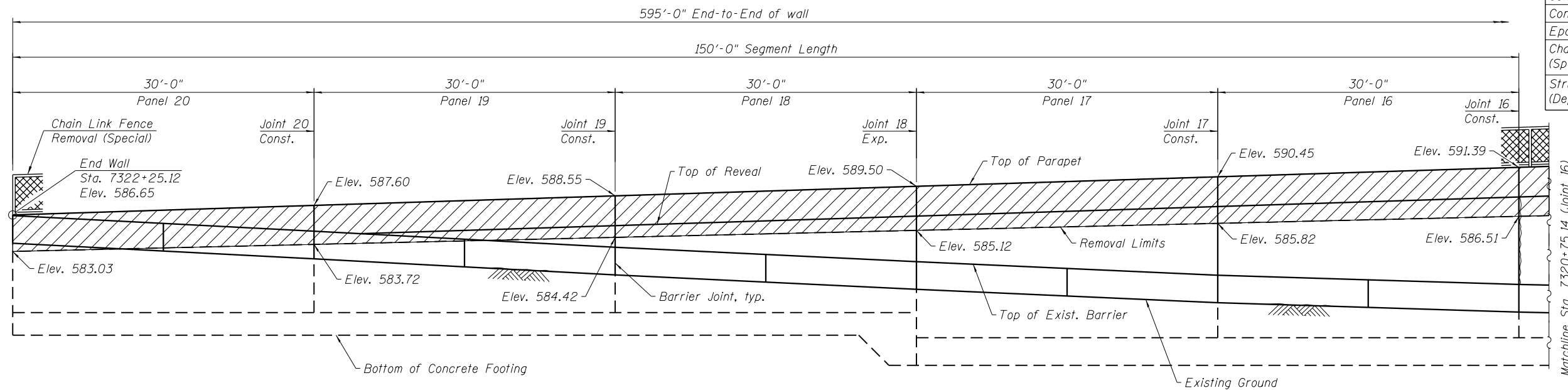
**TYPICAL CROSS SECTIONS AND DETAILS  
EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-03 OF S11-10 SHEETS

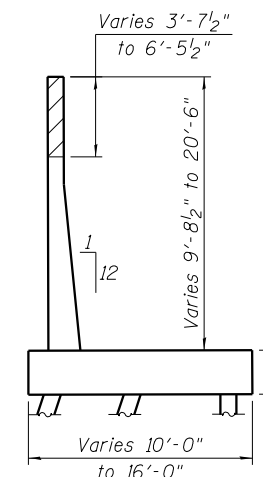
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1112
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

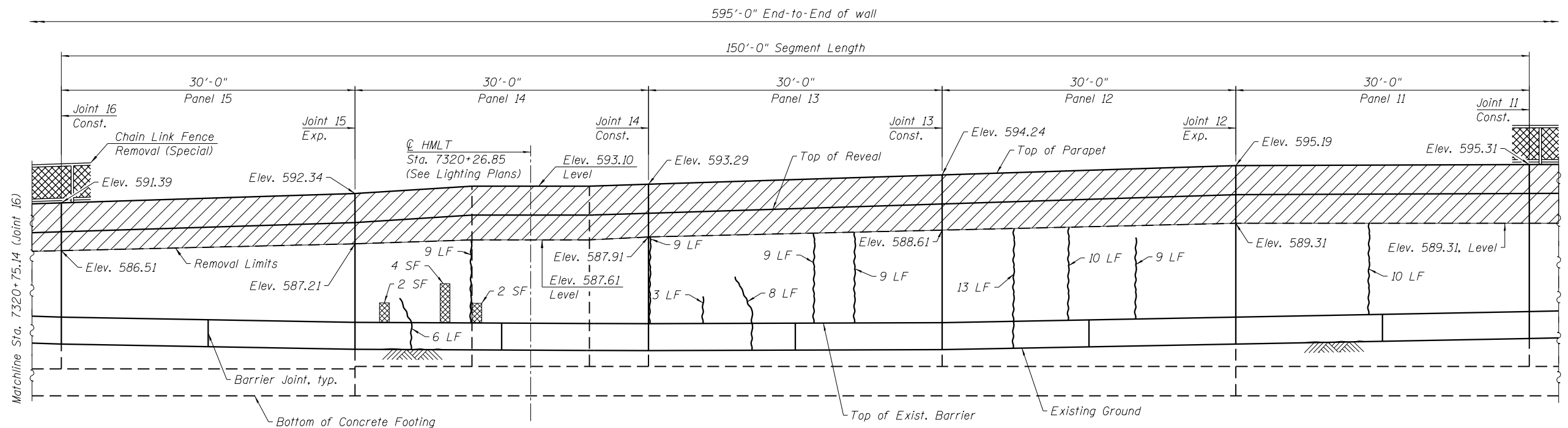
Item	Unit	Total
Concrete Removal	Cu. Yd.	124
Concrete Sealer	Sq. Ft.	3,477
Epoxy Crack Injection	Foot	191
Chain Link Fence Removal (Special)	Foot	595
Structural Repair of Concrete (Depth less than 5 inches)	Sq. Ft.	13



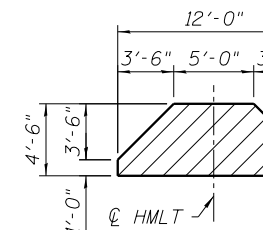
**ELEVATION (STATION 7322+25.12 TO 7320+75.14)**  
(Looking West)



**EXISTING RETAINING WALL TYPICAL CROSS SECTION**



**ELEVATION (STATION 7320+75.14 TO 7319+25.16)**  
(Looking West)



**HMLT BASE PLAN VIEW**

**LEGEND**

- Limits of Concrete Removal
- Area of Structural Repair of Concrete (Depth less than 5 in)
- Epoxy Crack Injection

- SF - Square Foot
- LF - Linear Foot
- HMLT - High Mast Light Tower

Notes:  
Existing barrier to be removed before construction of Anchorage Slab. See Roadway Plans for Concrete Barrier Removal.  
Stations are measured along the front face of wall.  
Reveals not shown for clarity.

3:15:03 PM 01/23/11-60X93-S004-RepairPlan1.dgn



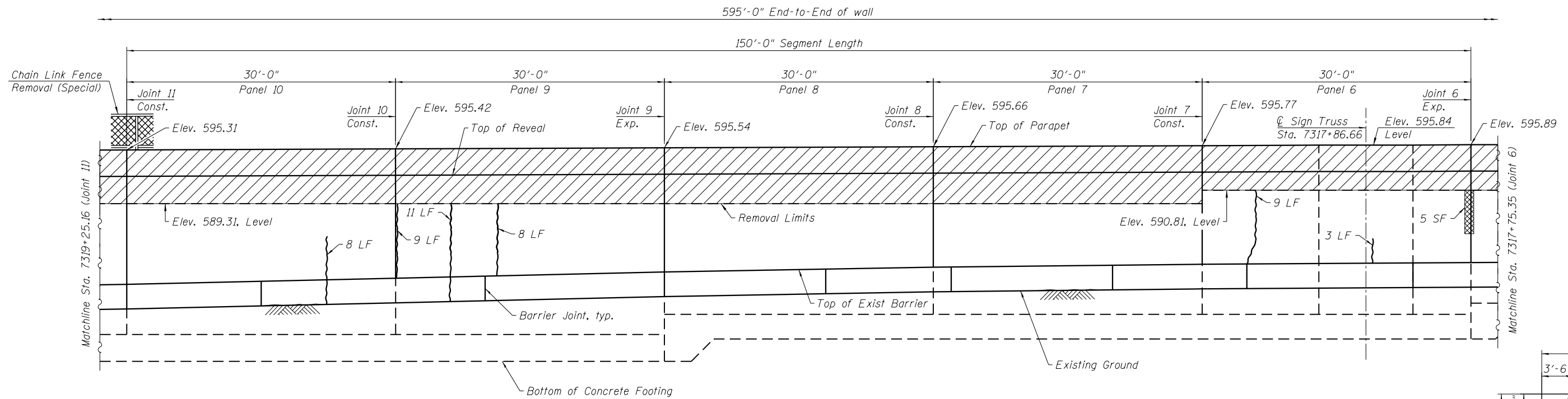
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

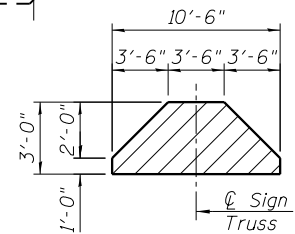
**REPAIR AND REMOVAL PLANS 1 EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-04 OF S11-10 SHEETS

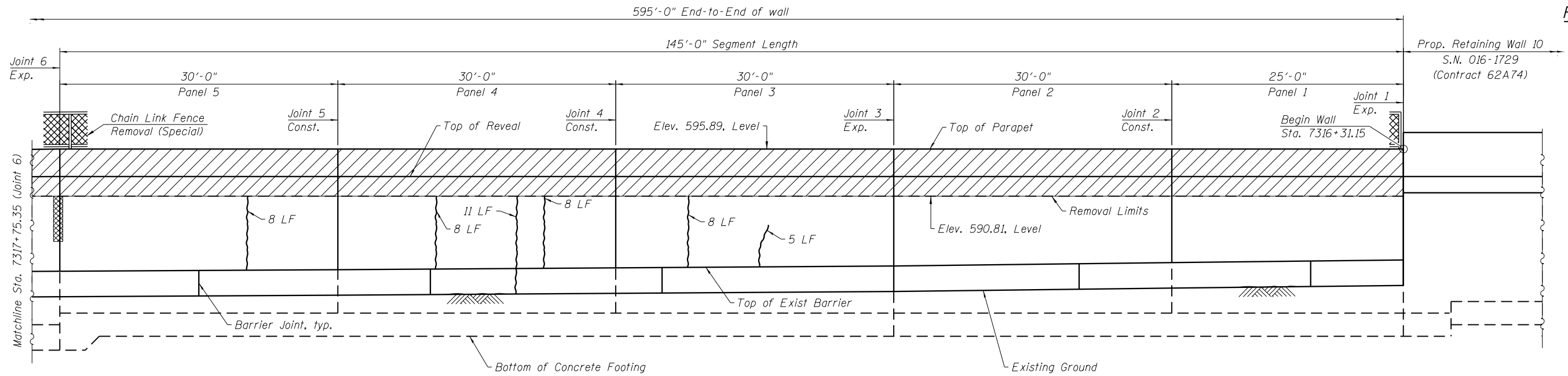
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90/94/290	2014-013 R&B-R	COOK	1972	1113
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				



**ELEVATION (STATION 7319+25.16 TO 7317+75.35)**  
(Looking West)



**SIGN TRUSS BASE**  
**PLAN VIEW**



**ELEVATION (STATION 7317+75.35 TO 7316+31.15)**  
(Looking West)

**LEGEND**

- Limits of Concrete Removal
- Area of Structural Repair of Concrete (Depth less than 5 in)
- Epoxy Crack Injection
- SF - Square Foot
- LF - Linear Foot

Notes:  
Existing barrier to be removed before construction of Anchorage Slab. See Roadway Plans for Concrete Barrier Removal.  
Stations are measured along the front face of wall.  
Reveals not shown for clarity.

3:15:07 PM 01/23/11-60X93-5005-RepairPlan2.dgn



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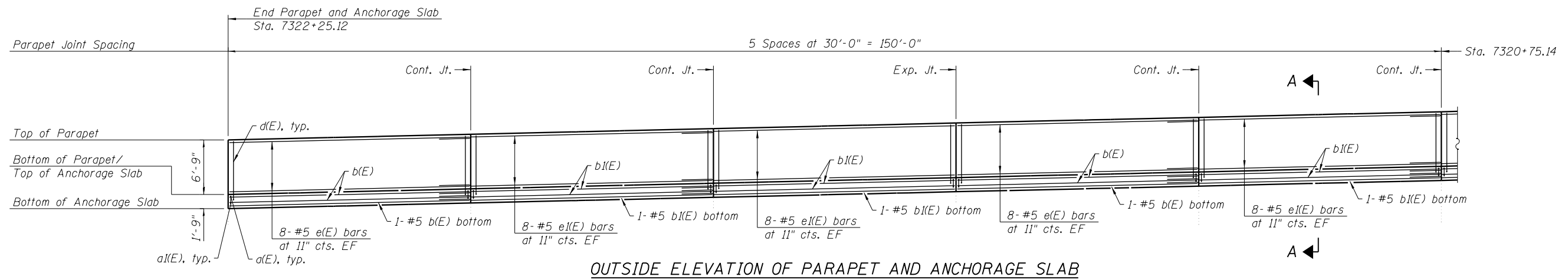
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REPAIR AND REMOVAL PLANS 2**  
**EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-05 OF S11-10 SHEETS

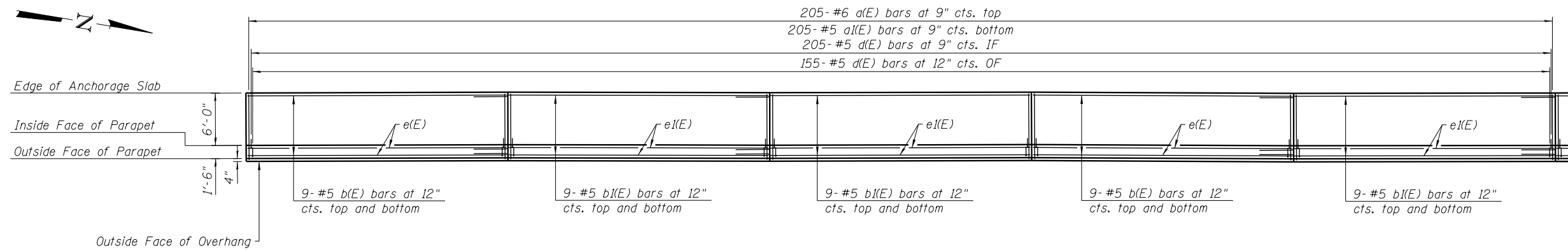
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CONTRACT NO.			60X93	

ILLINOIS FED. AID PROJECT

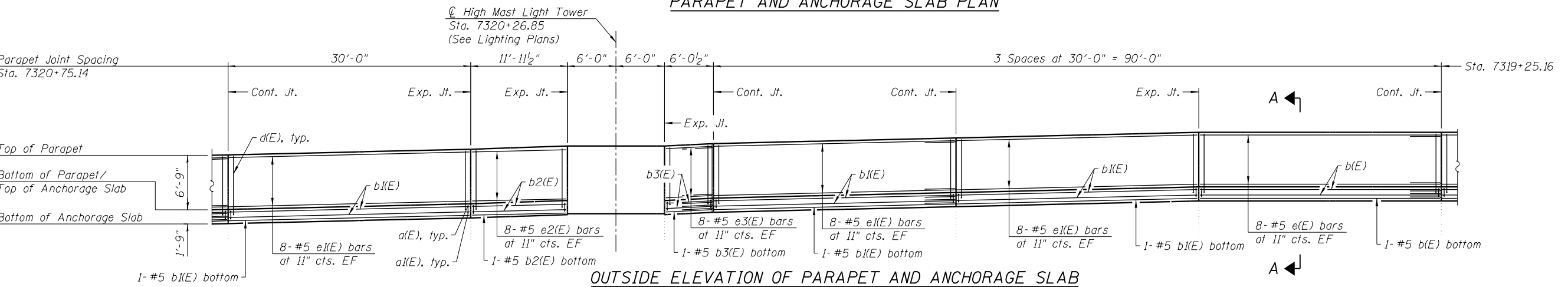


**OUTSIDE ELEVATION OF PARAPET AND ANCHORAGE SLAB**

(Looking West)

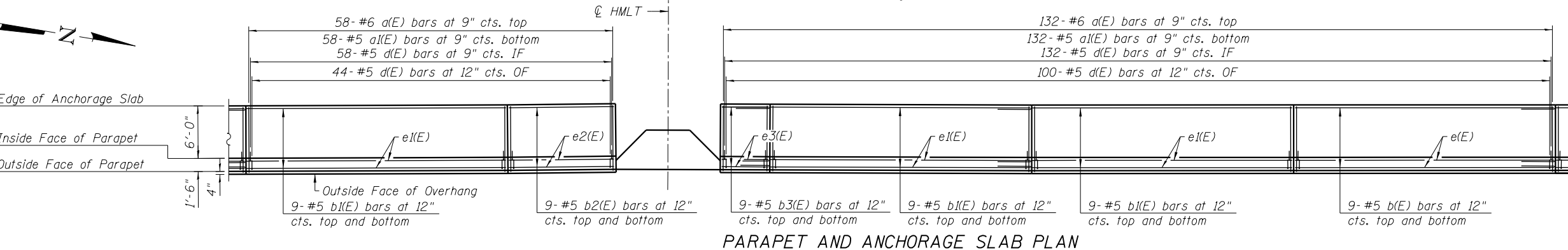


**PARAPET AND ANCHORAGE SLAB PLAN**



**OUTSIDE ELEVATION OF PARAPET AND ANCHORAGE SLAB**

(Looking West)



**PARAPET AND ANCHORAGE SLAB PLAN**

Notes:  
For Section A-A, Bill of Material, High Mast Light Tower Foundation, and Bar Bends, see sheet S11-08 of S11-10.  
For Joint Details, see sheet S11-03 of S11-10.  
For Wall Elevations, see Table 1 on sheet S11-02 of S11-10.  
EF = Each Face  
IF = Inside Face  
OF = Outside Face

3/15/12 PM 0162311-60X93-S006-SlabPlan\_Elev1.dgn



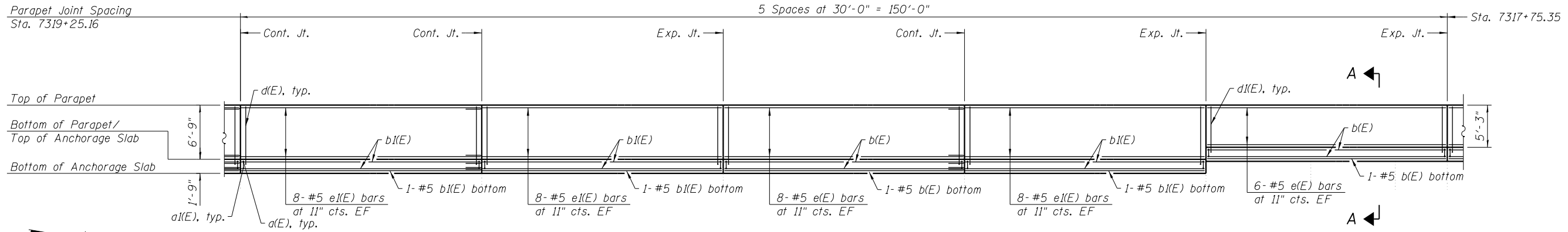
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

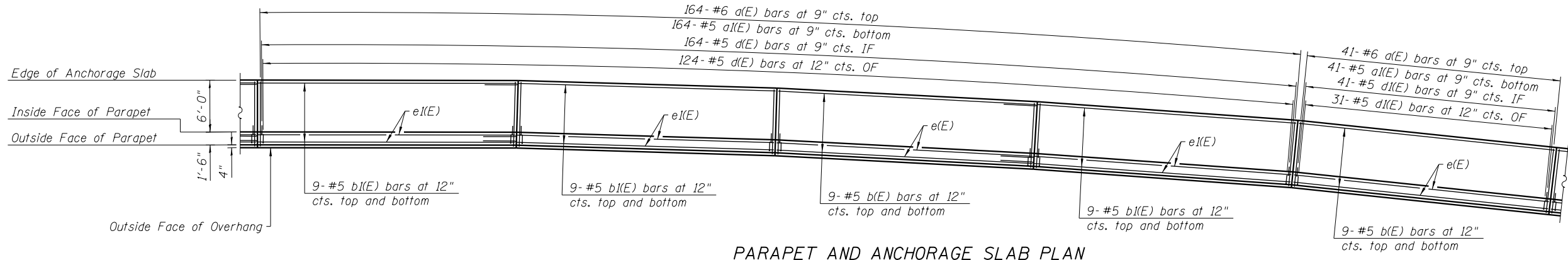
**PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 1  
EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-06 OF S11-10 SHEETS

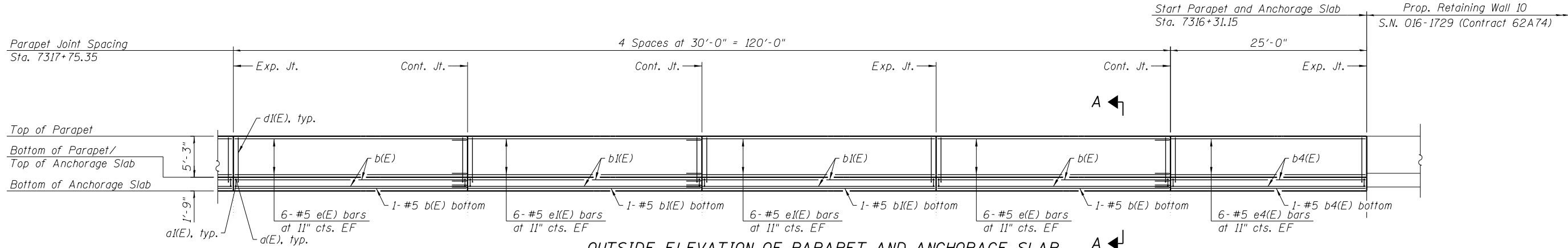
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CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				



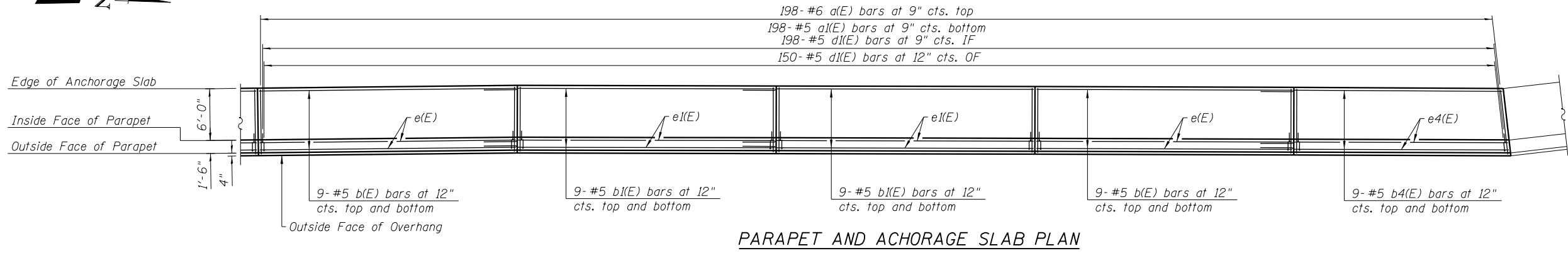
**OUTSIDE ELEVATION OF PARAPET AND ANCHORAGE SLAB**  
(Looking West)



**PARAPET AND ANCHORAGE SLAB PLAN**



**OUTSIDE ELEVATION OF PARAPET AND ANCHORAGE SLAB**  
(Looking West)



**PARAPET AND ANCHORAGE SLAB PLAN**

**Notes:**  
 For Section A-A, Bill of Material, High Mast Light Tower Foundation, and Bar Bends, see sheet S11-08 of S11-10.  
 For Joint Details, see sheet S11-03 of S11-10.  
 For Wall Elevations, see Table 1 on sheet S11-02 of S11-10.  
 EF = Each Face  
 IF = Inside Face  
 OF = Outside Face

3/15/16 PM 0162311-60X93-S007-SlabPlan\_lev2.dgn



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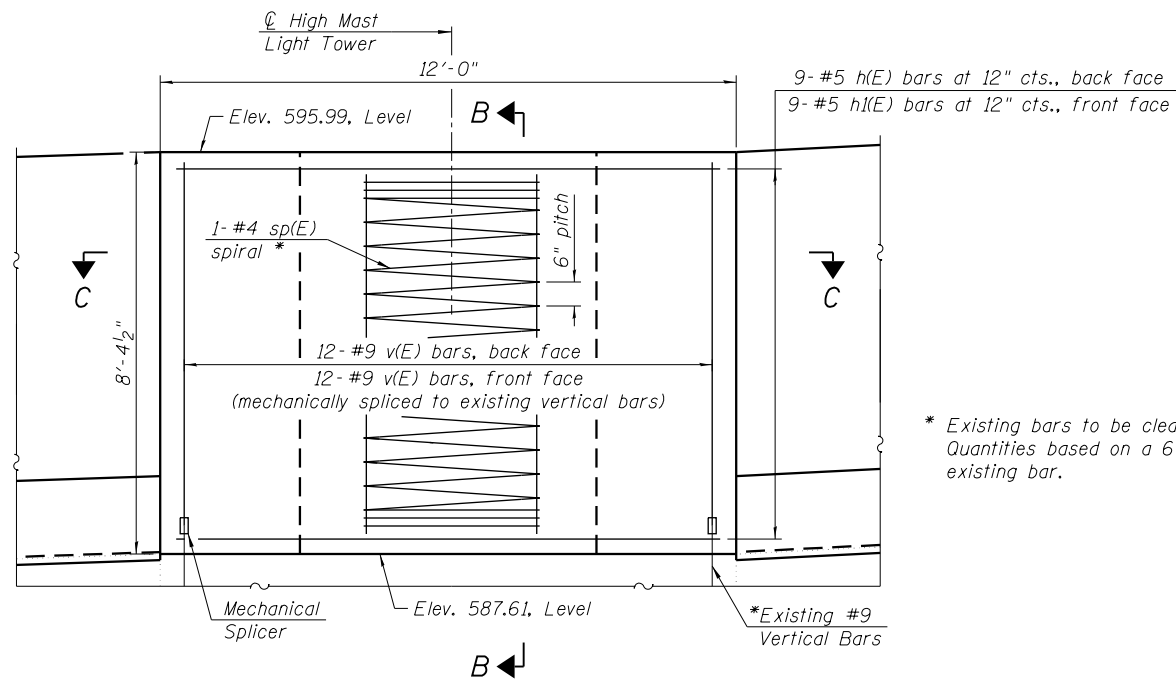
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 2**  
**EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

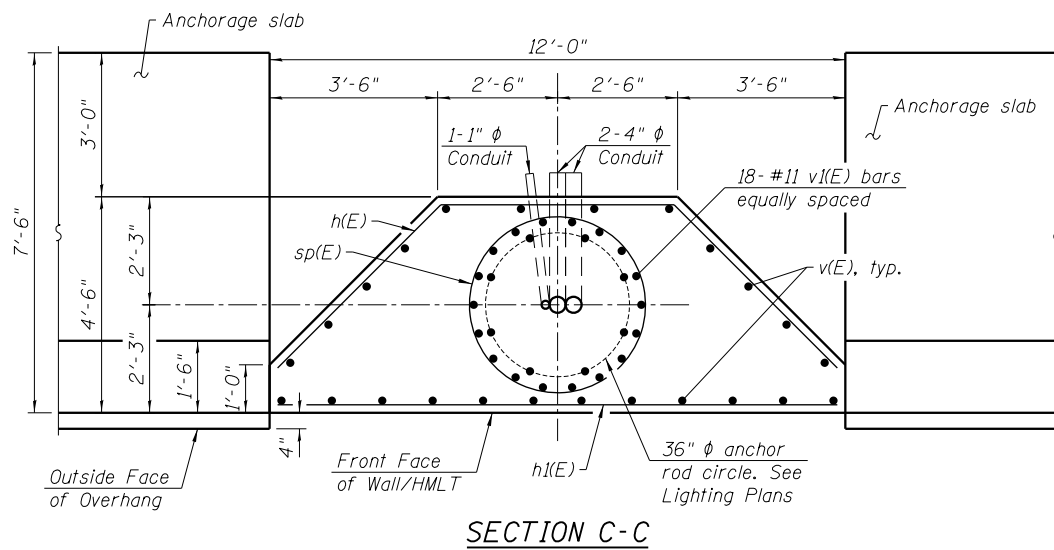
SHEET NO. S11-07 OF S11-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				

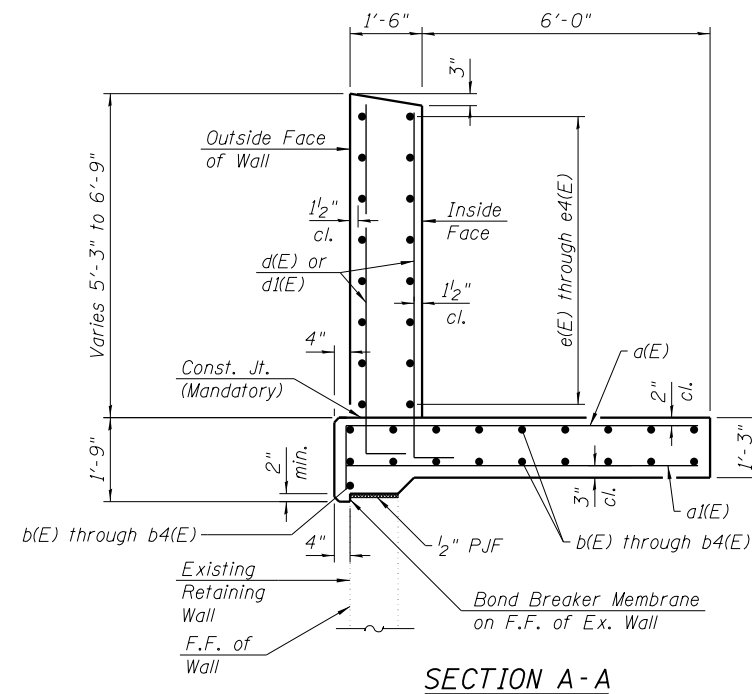




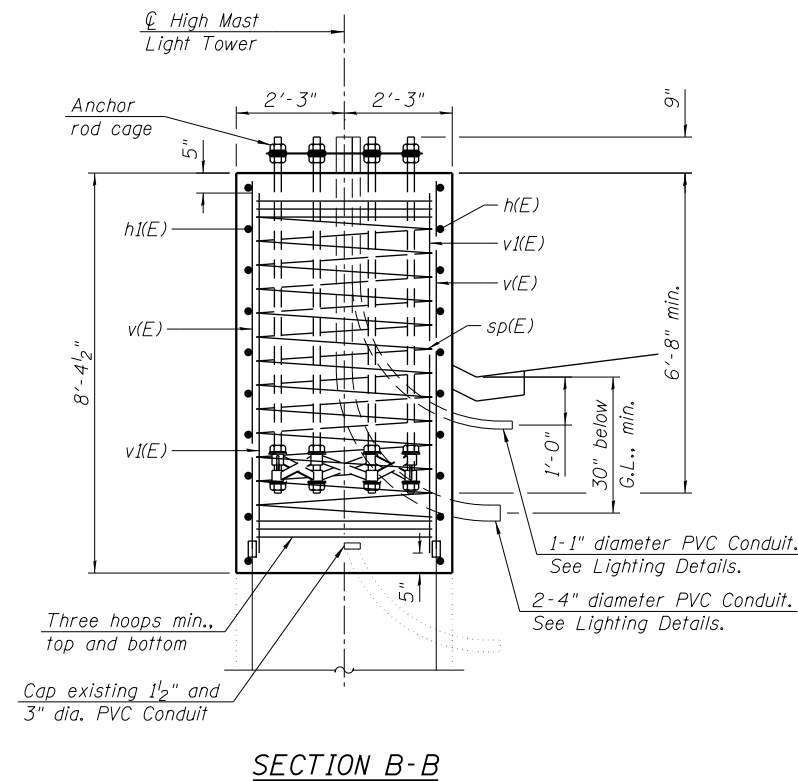
**DETAIL AT HMLT  
ELEVATION**  
(Looking West)



**SECTION C-C**



**SECTION A-A**

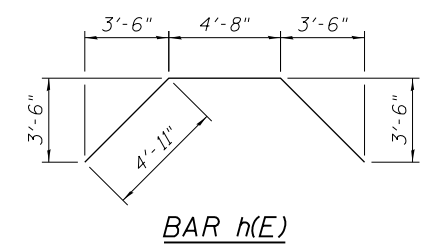


**SECTION B-B**

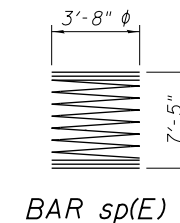
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	798	#6	8'-11"	□
a(1E)	798	#5	7'-6"	□
b(E)	133	#5	29'-8"	—
b(1E)	209	#5	33'-9"	—
b2(E)	19	#5	11'-7"	—
b3(E)	19	#5	5'-8"	—
b4(E)	19	#5	28'-9"	—
d(E)	982	#5	8'-6"	□
d(1E)	420	#5	7'-0"	□
e(E)	100	#5	29'-8"	—
e(1E)	168	#5	33'-9"	—
e2(E)	16	#5	11'-7"	—
e3(E)	16	#5	5'-8"	—
e4(E)	12	#5	28'-9"	—
h(E)	9	#5	14'-6"	□
h(1E)	9	#5	11'-8"	□
sp(E)	1	#4	7'-5"	⊘
v(E)	24	#9	7'-8"	—
v(1E)	18	#11	7'-6"	—
Structure Excavation	Cu. Yd.		577	
Concrete Superstructure	Cu. Yds.		436.3	
Reinforcement Bars, Epoxy Coated	Pound		52,500	
Concrete Sealer	Sq. Ft.		8,004	

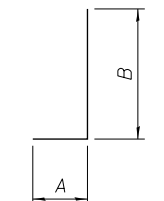
Minimum Bar Lap	
Bar	Lap
#5	3'-9"



**BAR h(E)**



**BAR sp(E)**



**BARS a(E), d(E), and d(1E)**

Bar	A	B
a(E)	1'-5"	7'-6"
d(E)	10"	7'-8"
d(1E)	10"	6'-2"

\* Provide 3 extra turns at top and bottom of wall.  
Notes:  
For anchor rod cage details, see Highway Standard 837001-04.  
Cost of anchor rod cage included with the cost of Concrete Superstructure.

3:15:20 PM 0162311-60X93-S008-SlabDetails.dgn



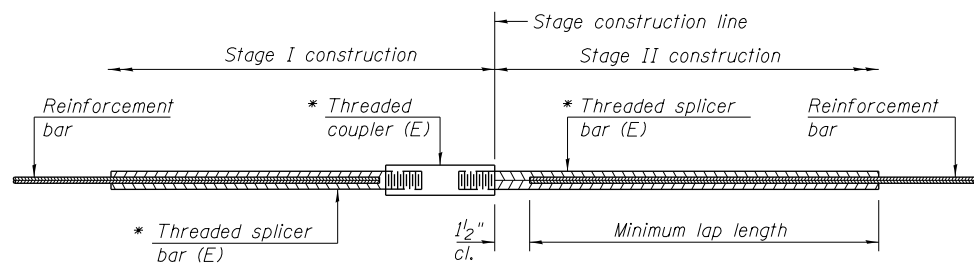
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PLOT DATE = 7/26/2018	CHECKED - WJC/MDS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PARAPET AND ANCHORAGE SLAB DETAILS  
EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-08 OF S11-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1117
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				

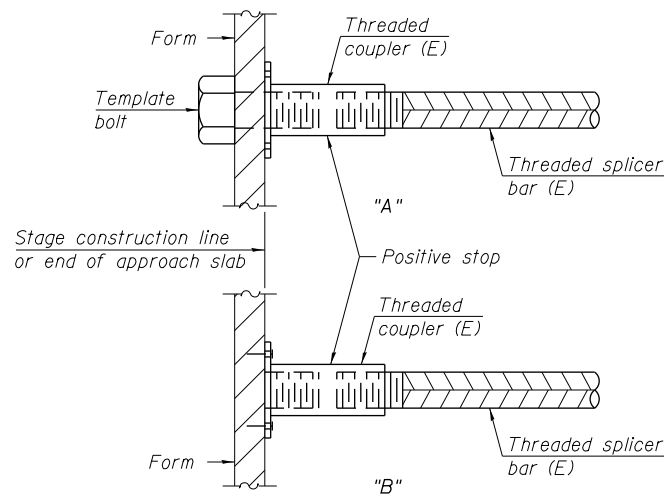


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 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

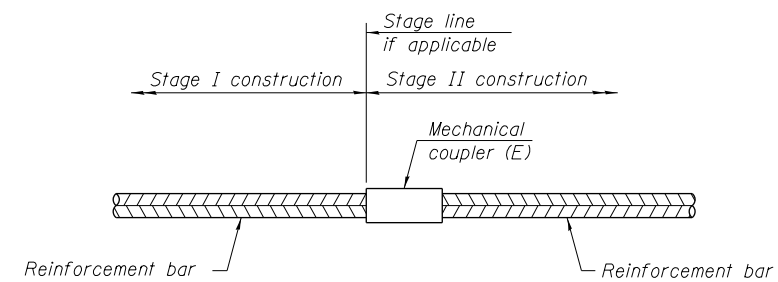


**INSTALLATION AND SETTING METHODS**

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

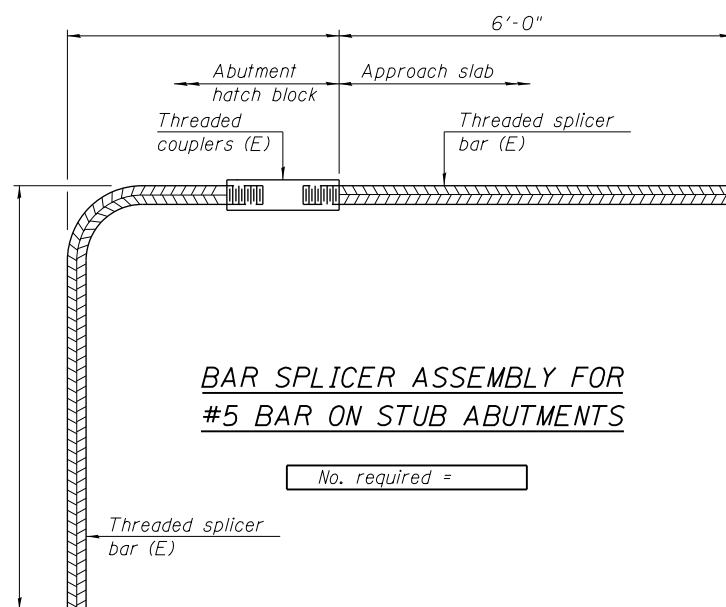
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required
HMLT Foundation	#9	24



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. 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.

3:15:23 PM 01/23/11-60X93-S009-MechDet.dgn



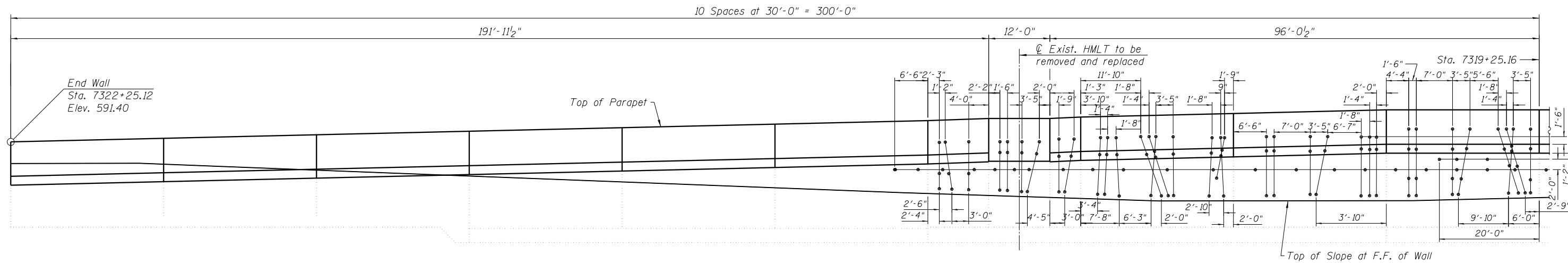
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

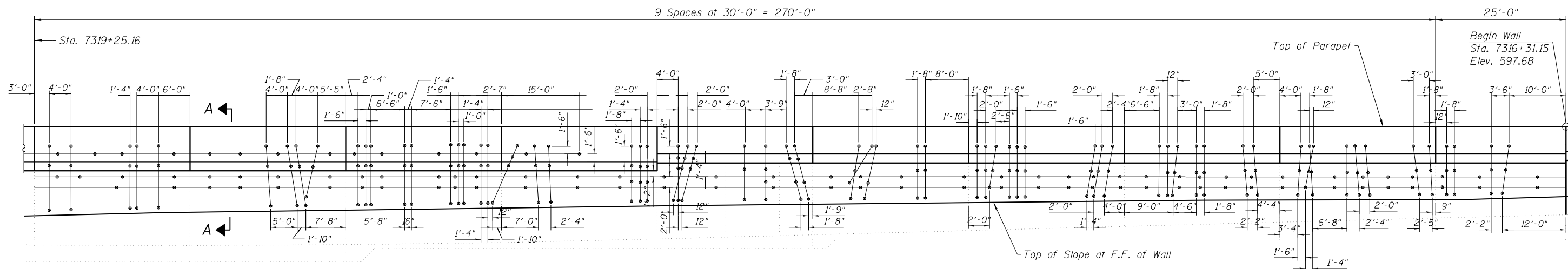
**MECHANICAL SPLICER DETAILS  
EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-09 OF S11-10 SHEETS

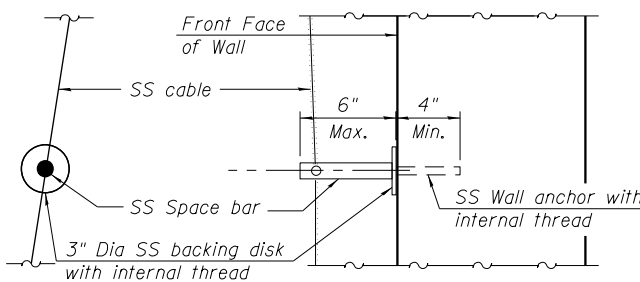
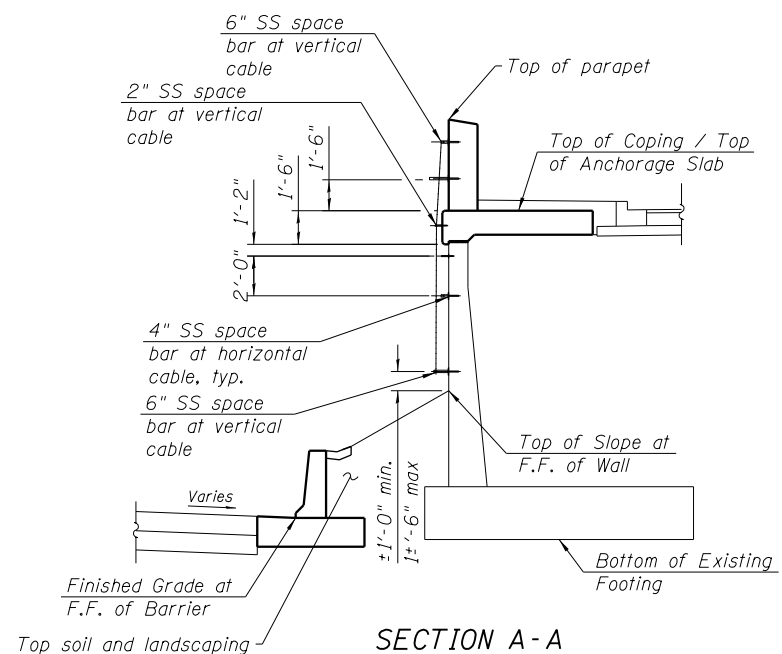
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013 R&B-R	COOK	1972	1118
CONTRACT NO.			60X93	
ILLINOIS FED. AID PROJECT				



**ELEVATION**  
(SS Cable Plant Support System Layout)



**ELEVATION**  
(SS Cable Plant Support System Layout)



**SS CABLE WALL MOUNT UNIT DETAIL**

**Notes:**  
Stainless steel cable system will be paid at a lump sum price for Stainless Steel Cable Plant Support System.  
Locate bottom anchor 1'-0" minimum to 1'-6" maximum above finished grade.  
Line up anchors as shown on elevation where possible, maintaining 6'-0" maximum spacing between anchor points.  
Maintain minimum 6" between anchors & control joint, and between anchors & reveals.

**BILL OF MATERIAL**

Item	Unit	Total
Stainless Steel Cable Plant Support System	L. Sum	1

3/15/27 PM 0162311-60X93-S010-Architectural.dgn



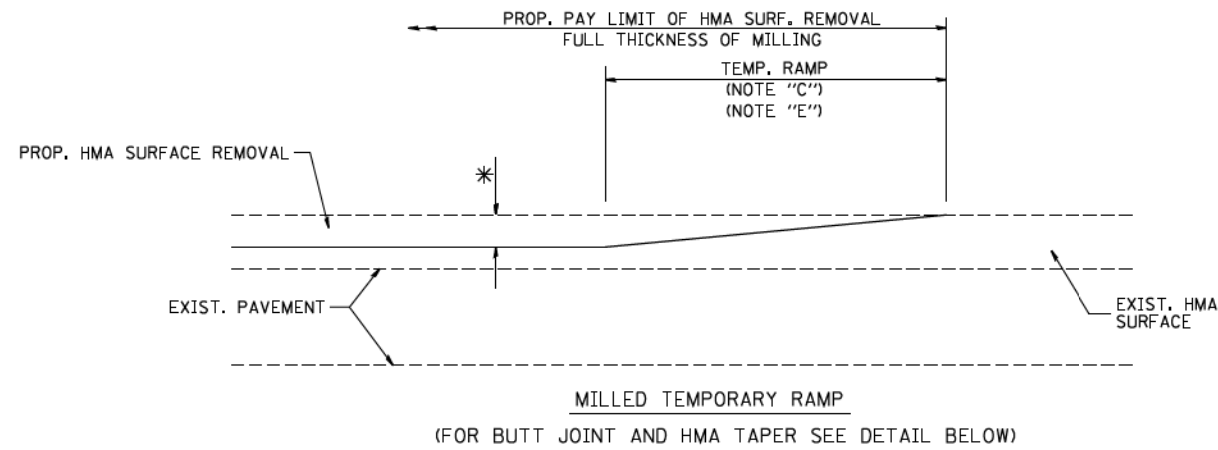
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

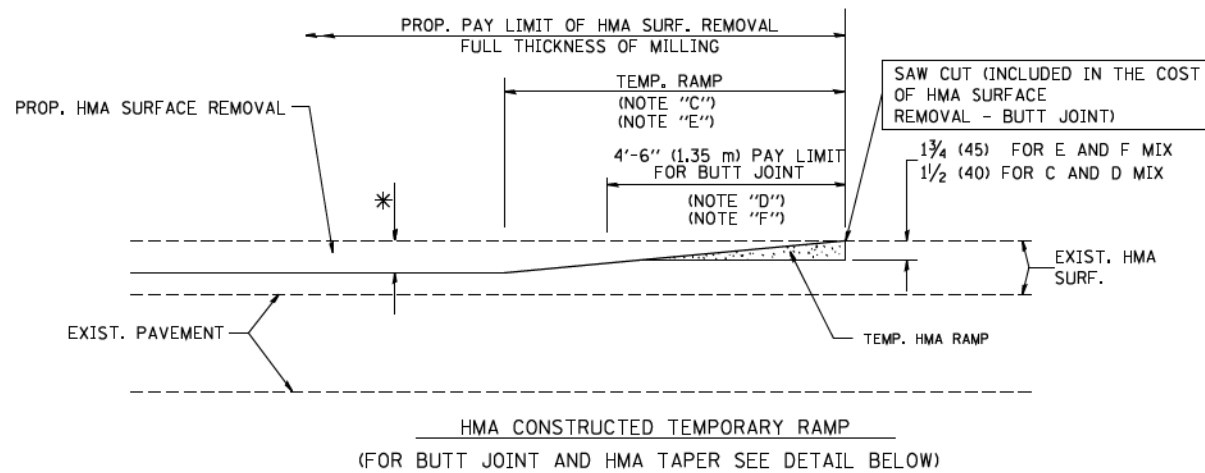
**ARCHITECTURAL DETAILS  
EXISTING RETAINING WALL 12 (STRUCTURE NO. 016-2311)**

SHEET NO. S11-10 OF S11-10 SHEETS

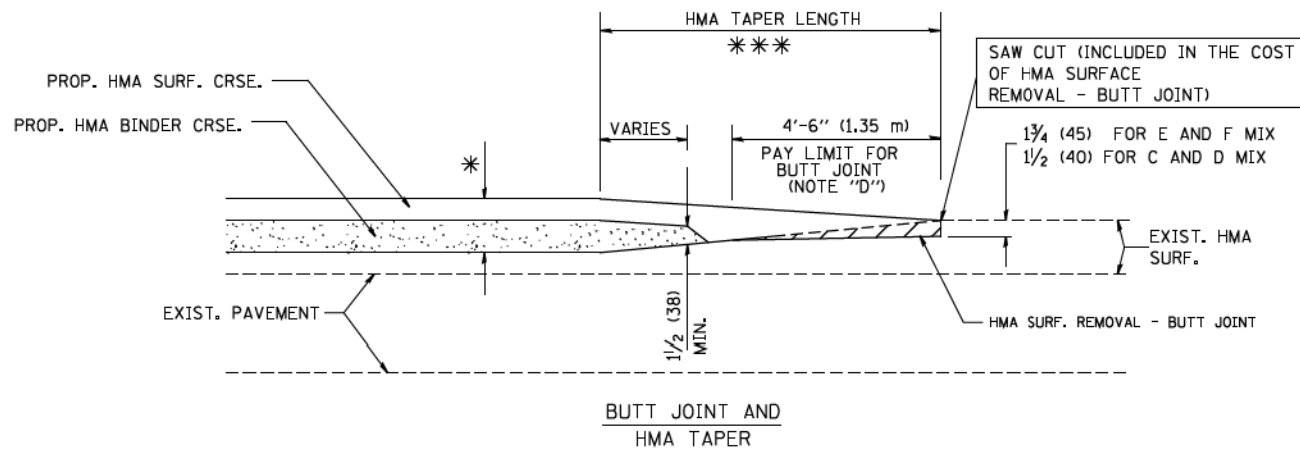
F.A.I. RTE. 90/94/290	SECTION 2014-013 R&B-R	COUNTY COOK	TOTAL SHEETS 1972	SHEET NO. 1119
CONTRACT NO. 60X93			ILLINOIS FED. AID PROJECT	



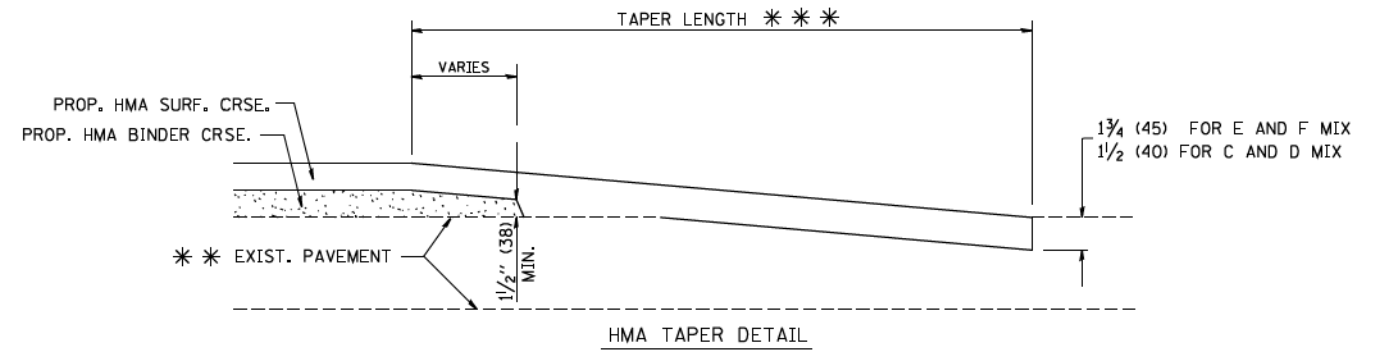
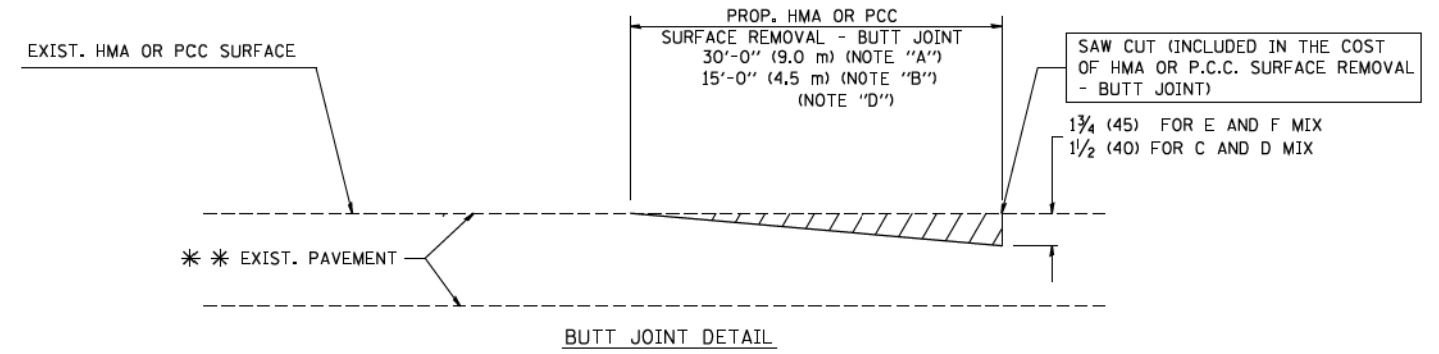
**OPTION 1**



**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQURE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. 90/94/290

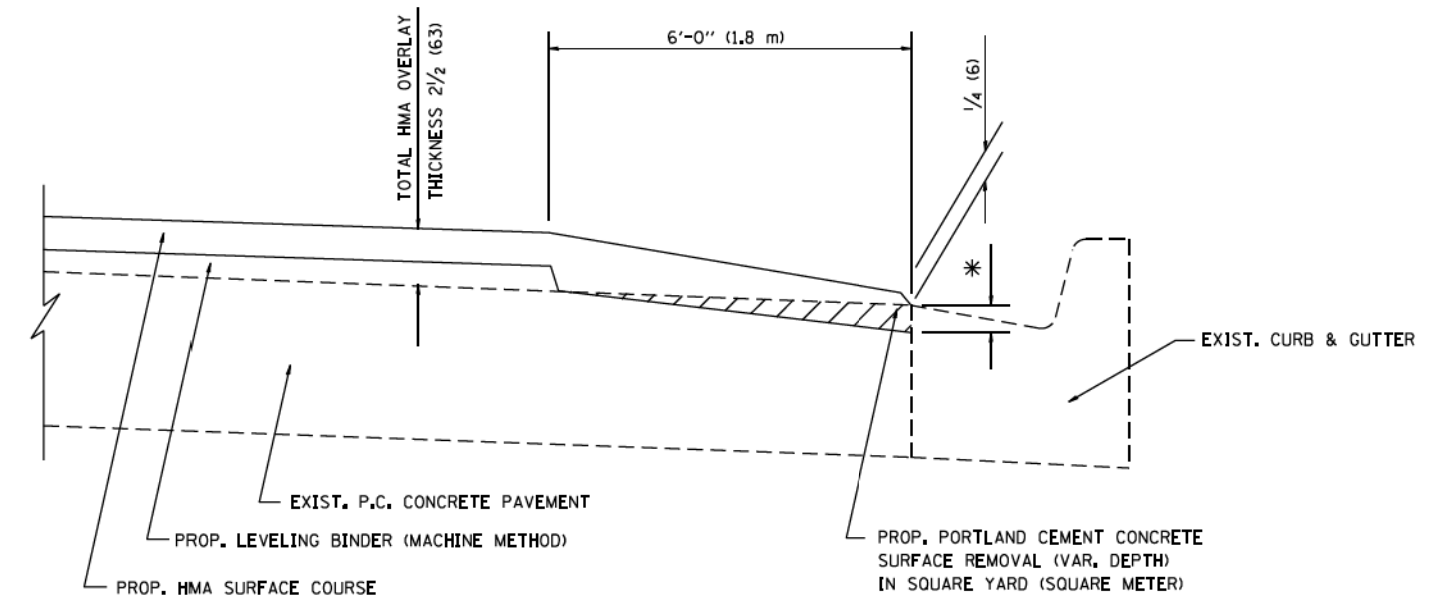
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

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

**BUTT JOINT AND HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1120
BD400-05 BD32			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



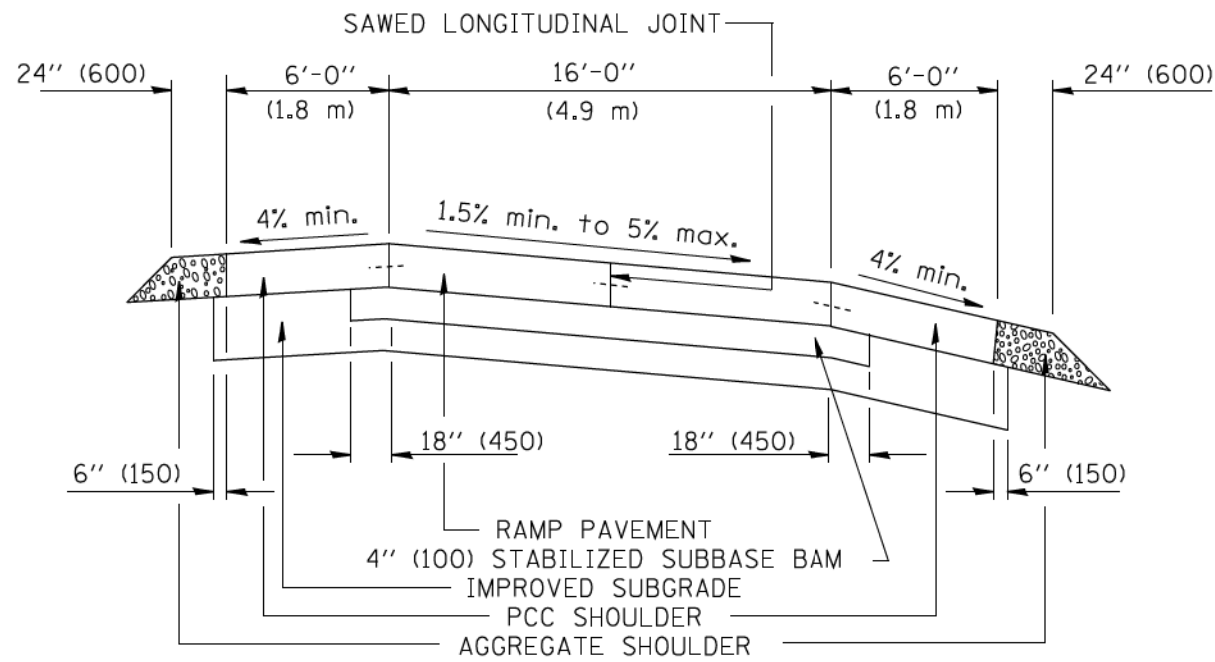
**HMA TAPER AT  
EDGE OF P.C.C. PAVEMENT**

HMA SURFACE	LEVELING BINDER		* MILLING AT GUTTER FLAG
MIX	THICKNESS	THICKNESS	
C OR D	1/2 (38)	1 (25)	1/4 (33)
E	1 3/4 (44)	3/4 (19)	1/2 (38)

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

• 90/94/290

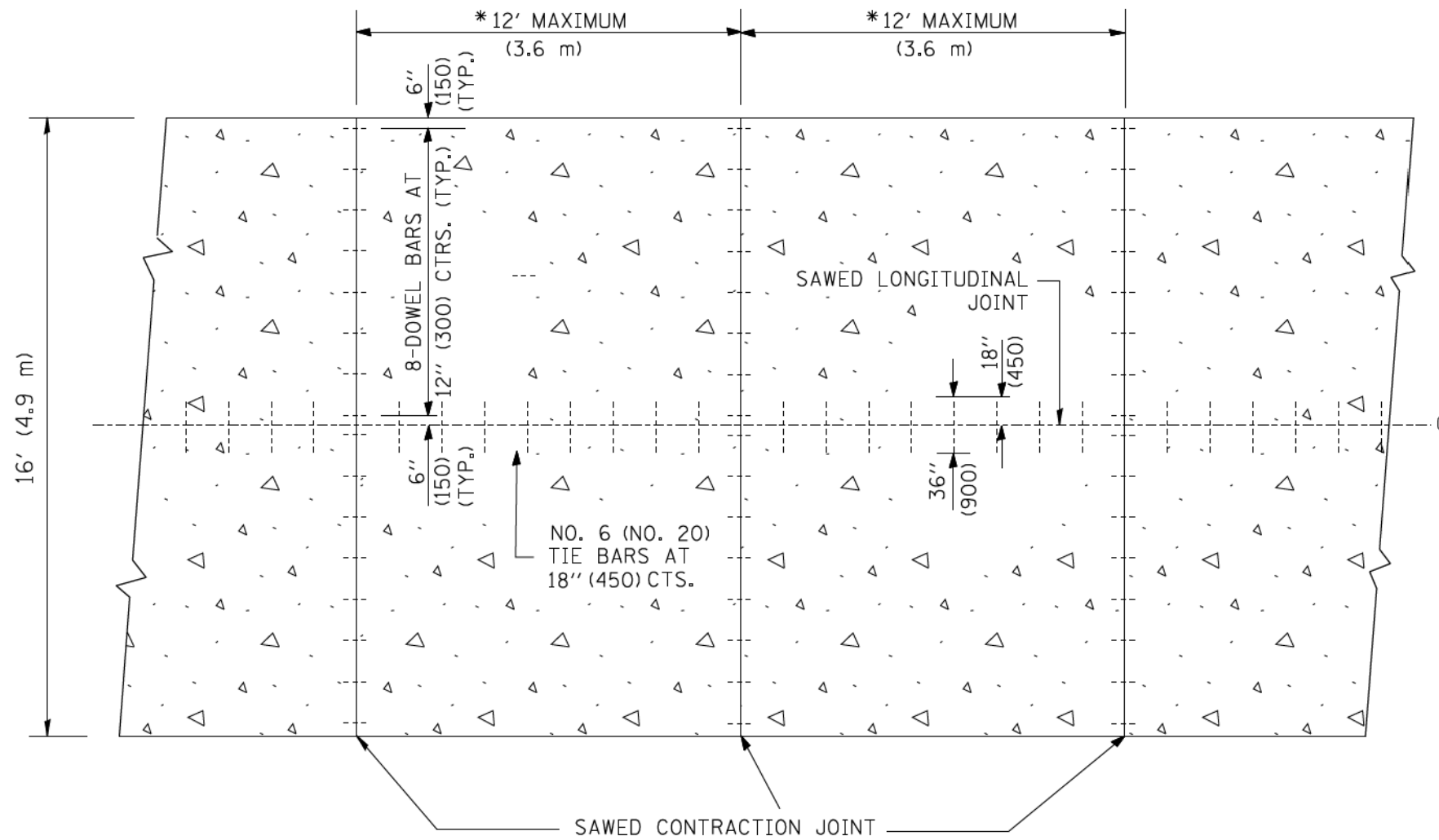
FILE NAME * p:\1184\BID\BID\Illinois.gov\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\BID\BID\CADD\Drawings\Sheets\bd33.dgn Default	USER NAME * lejoe DESIGNED - R. SHAH CHECKED - A. ABBAS PLOT DATE = 7/7/2016	REVISED - A. ABBAS 05-05-9 REVISED - E. GOMEZ 12-21-00 REVISED - R. BORO 01-01-07 REVISED - JP CHANG 07-08-16	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HMA TAPER AT EDGE OF P.C.C. PAVEMENT</b>	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	2014-013R&B-R COOK 1972 1121
	SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.				BD400-06 (BD33)    CONTRACT NO.	
					ILLINOIS FED. AID PROJECT	



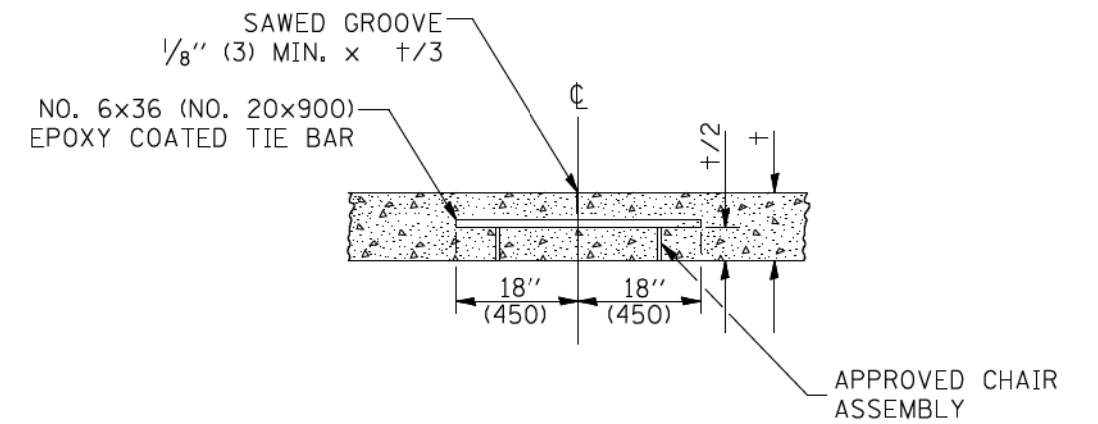
SECTION

NOTES:

1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12' (3.6 m).
2. ALL BARS TO BE EPOXY COATED.



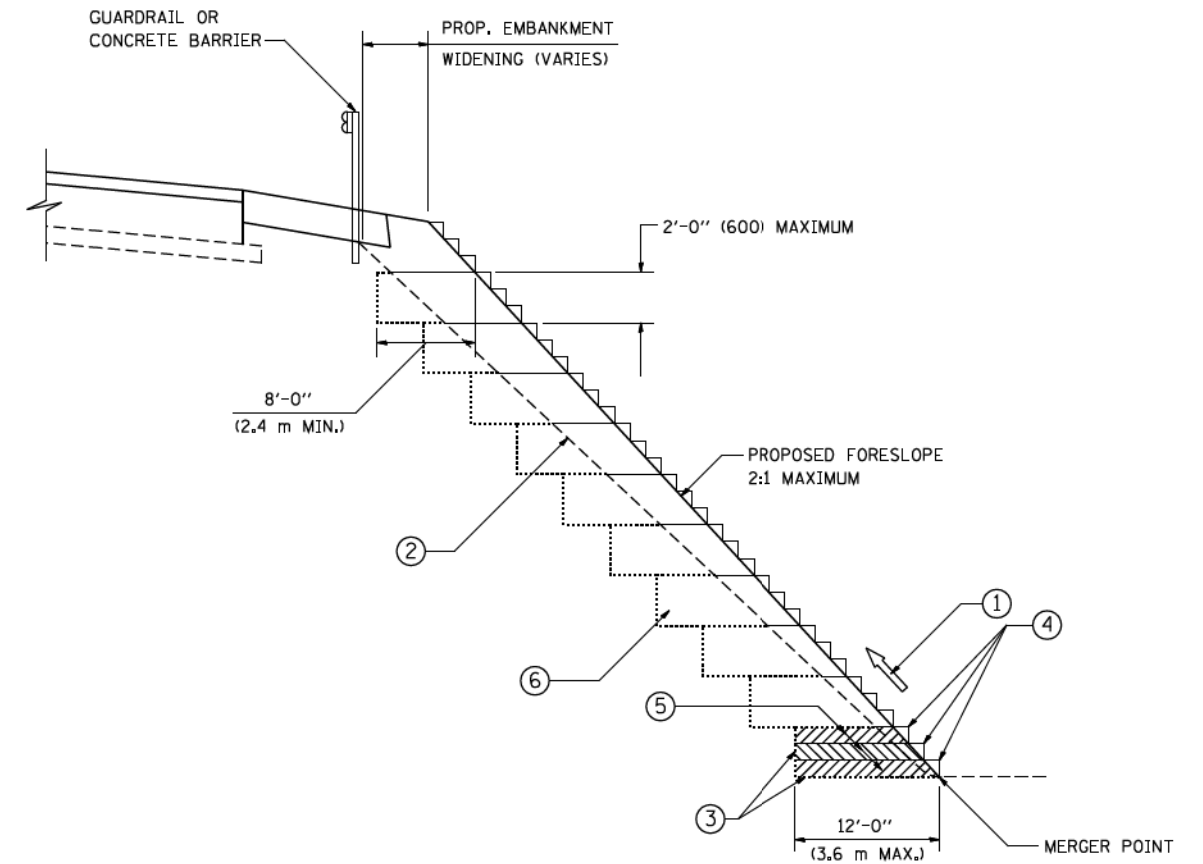
PLAN



SAWED LONGITUDINAL JOINT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED 90/94/290

FILE NAME = W:\dststd\22x34\bd49.dgn	USER NAME = gog11enob1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL FOR CENTERLINE SAW CUT 16' (4.9 m) AND VARIABLE JOINTED PCC PAVEMENT FOR RAMPS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN - TOM MATOUSEK	REVISED -				•	2014-013R&B-R	COOK	1972	1122
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED -				<b>BD49</b>		CONTRACT NO.		
	DATE - 10-18-02	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

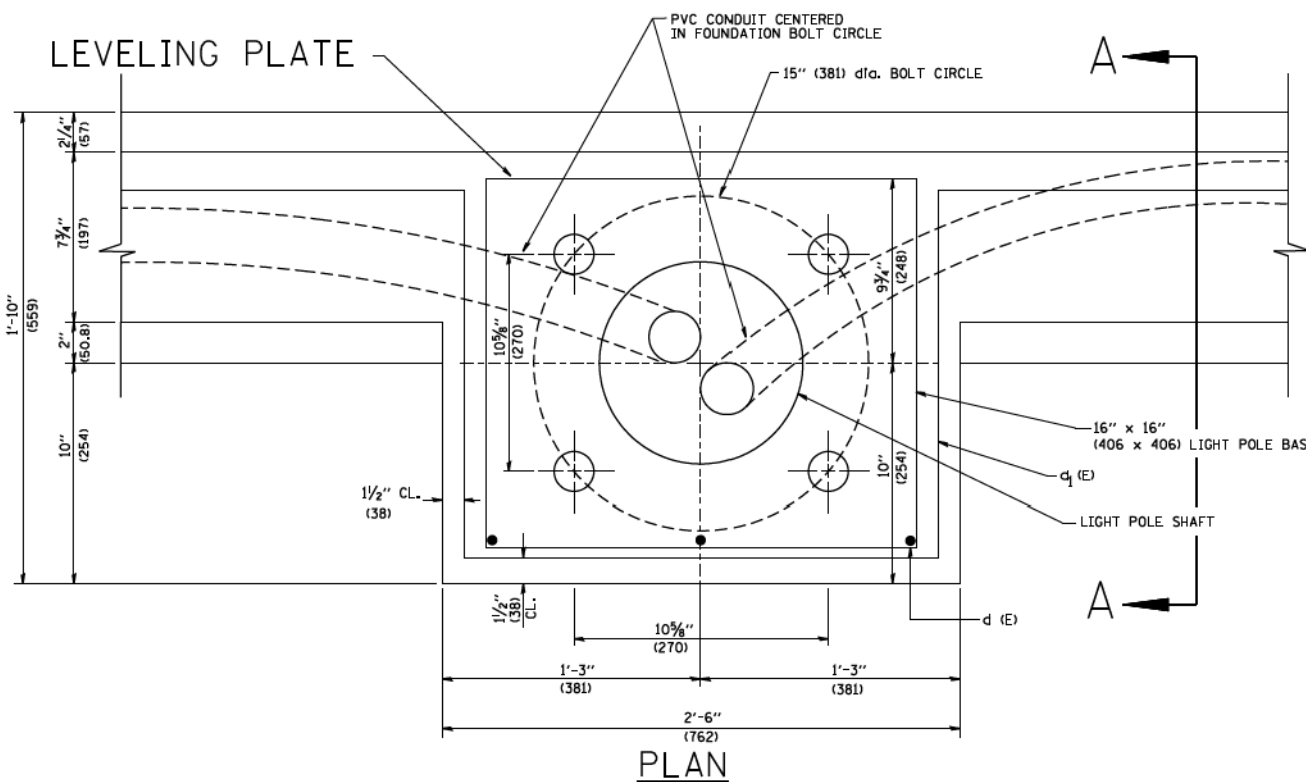
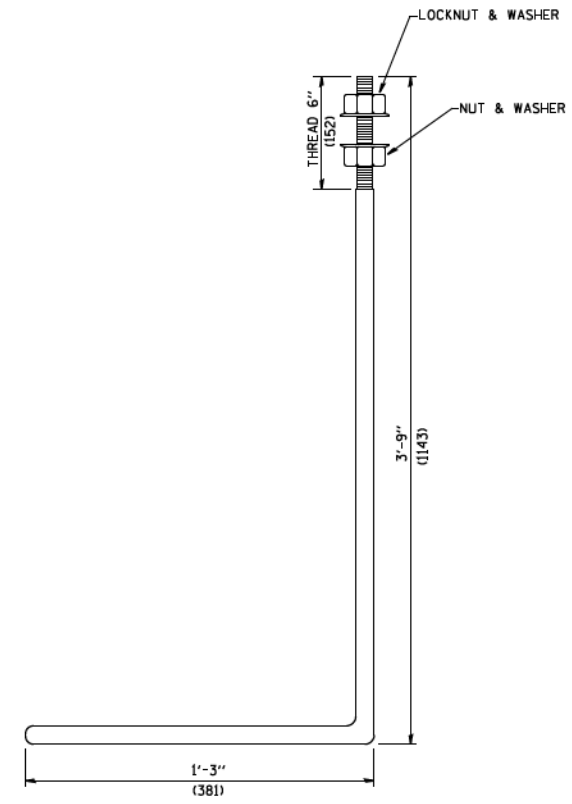
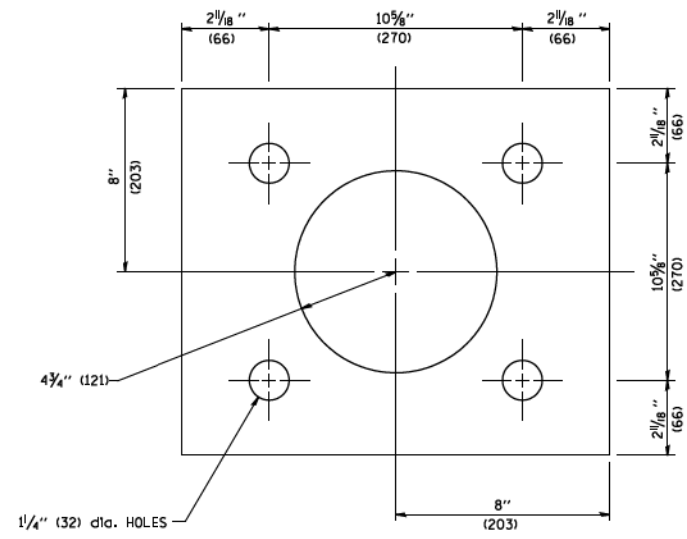
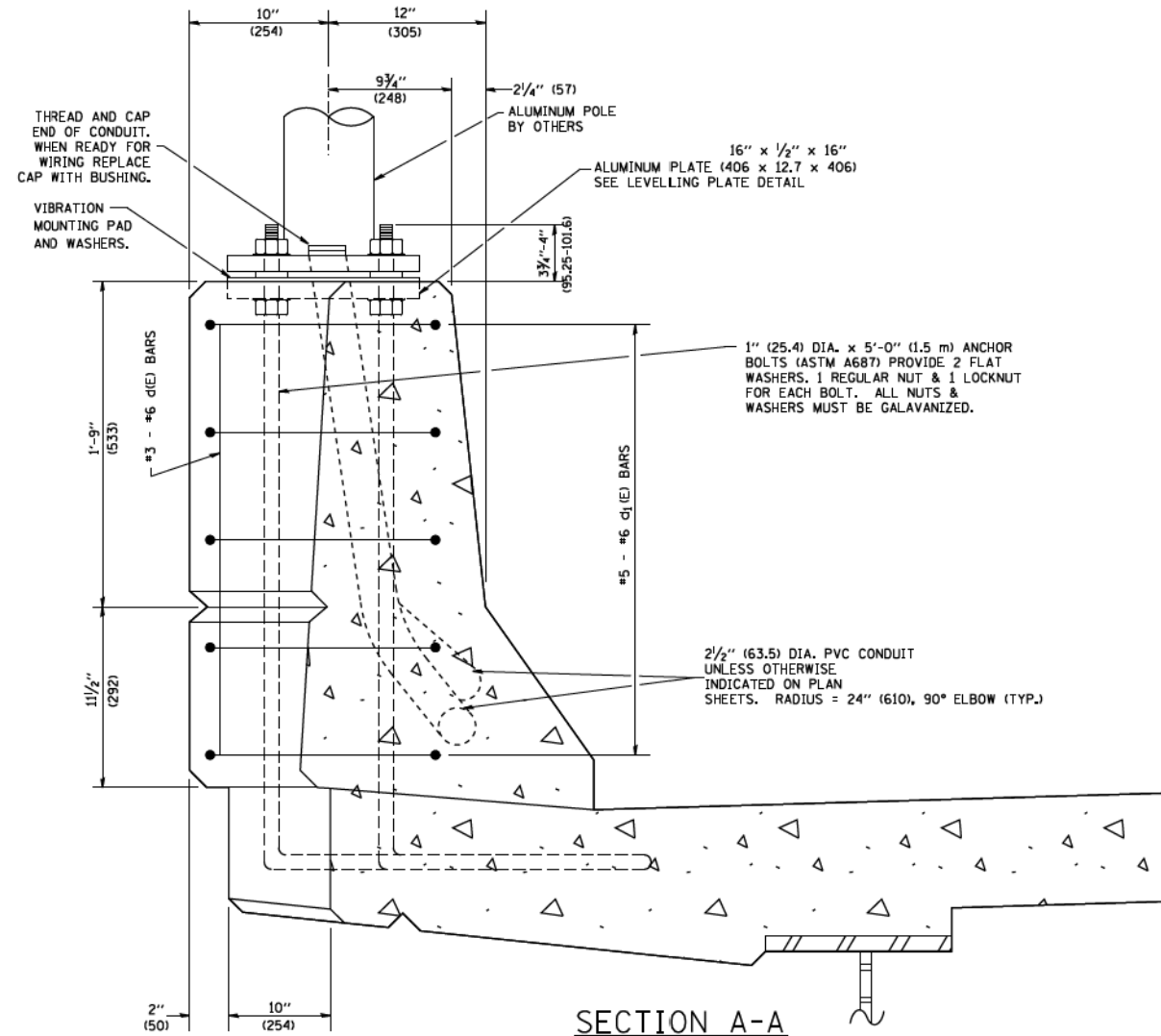
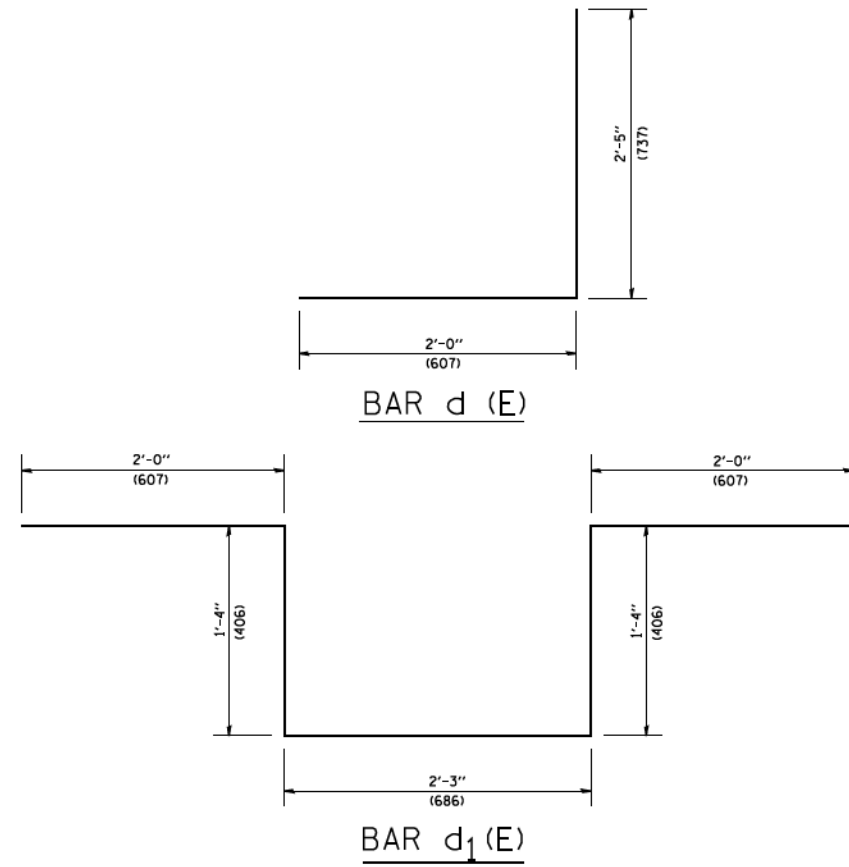
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN. • 90/94/290

FILE NAME = W:\d\stsd\22x34\bd51.dgn	USER NAME = gog11enob1	DESIGNED -	REVISED -
		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

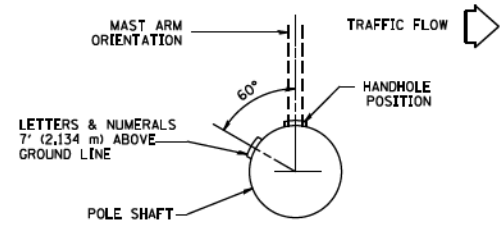
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1123
<b>BD-51</b>		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



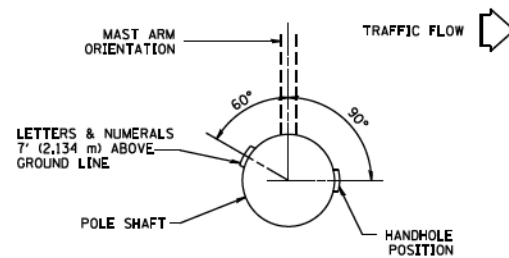
- NOTES**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  2. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
  3. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCLUDED IN THE COST OF THE BRIDGE STRUCTURE.

FILE NAME = W:\distatd\22x34\be330.dgn	USER NAME = gog11enob1	DESIGNED -	REVISED - 04-22-02	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL 15" (381 mm) BOLT CIRCLE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-013R&B-R	COOK	1972	1124
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -						<b>BE-330</b>		CONTRACT NO.	
		DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

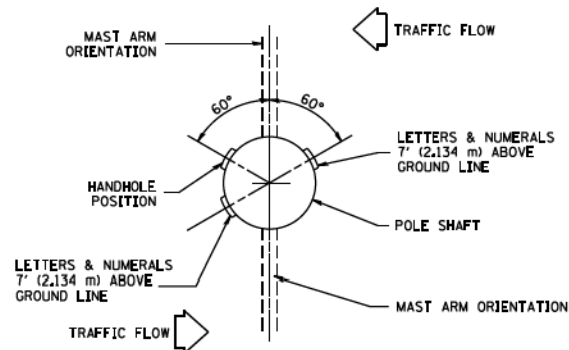




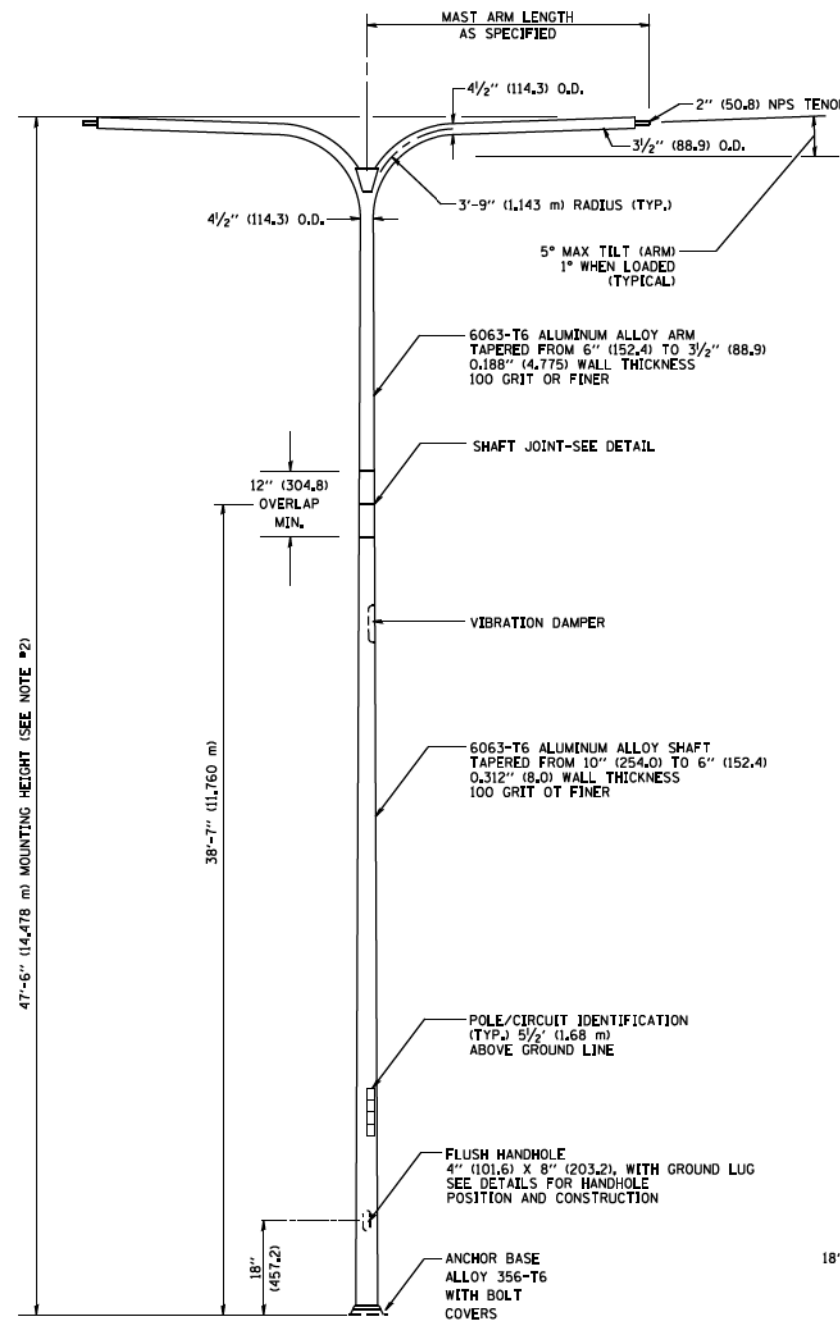
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



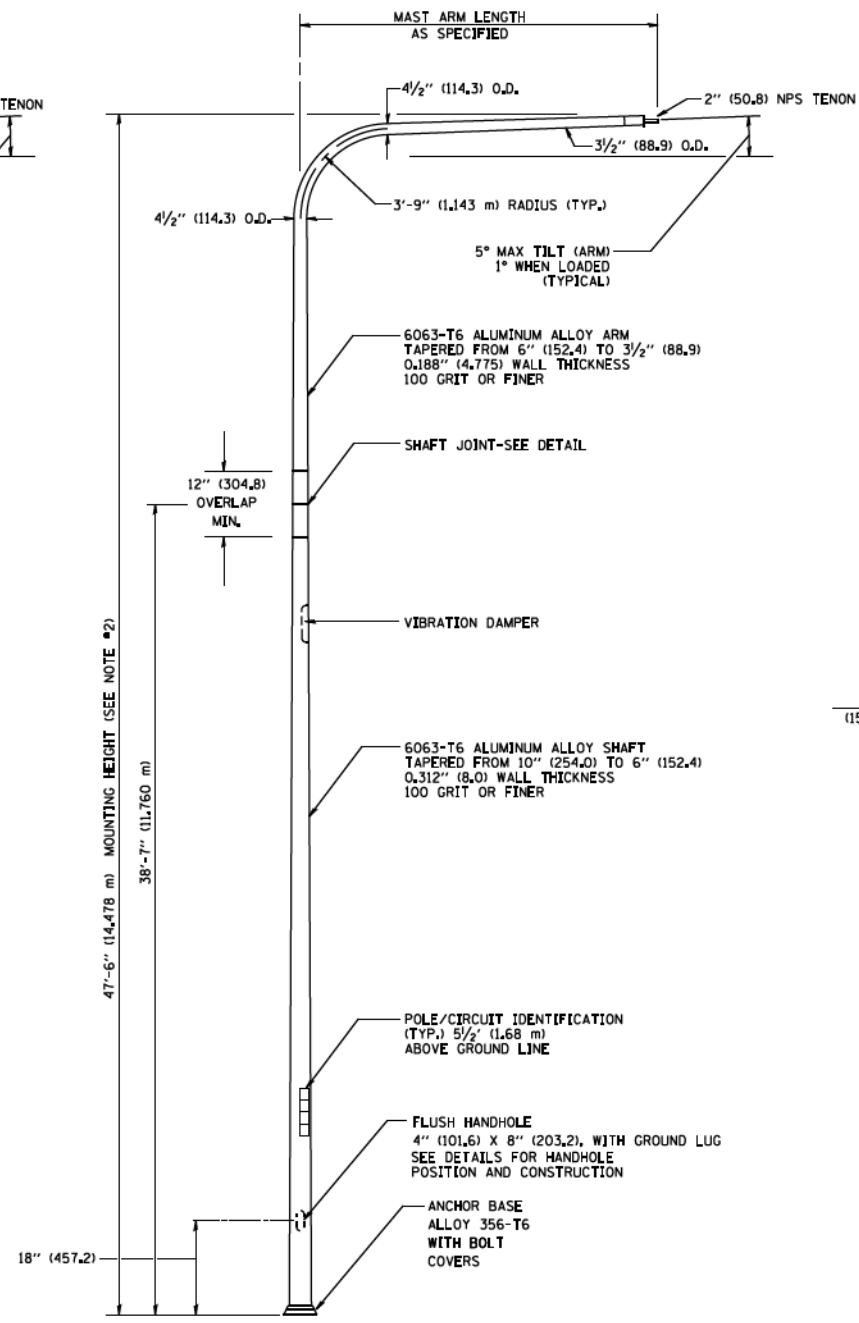
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



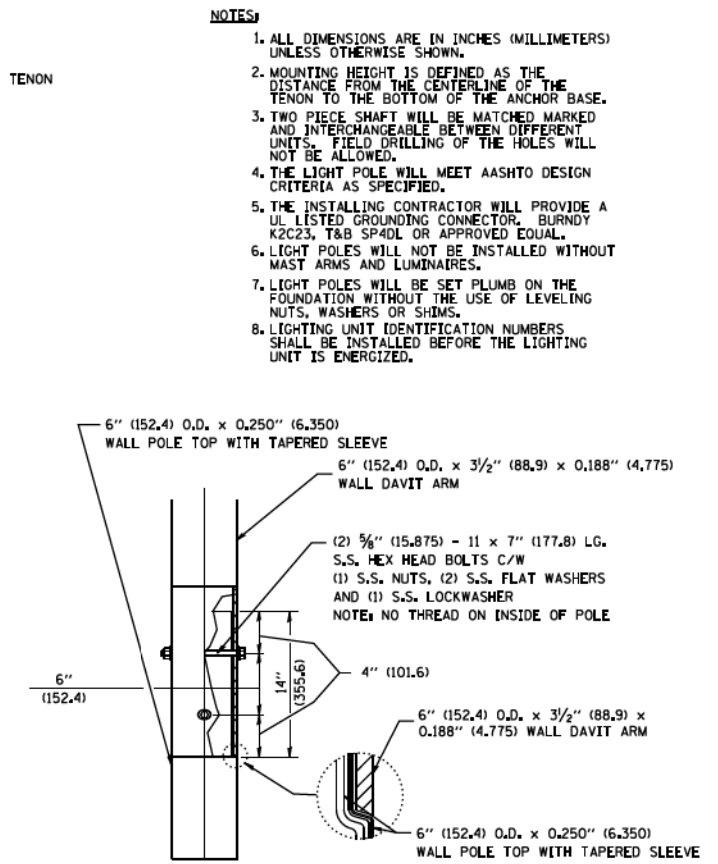
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



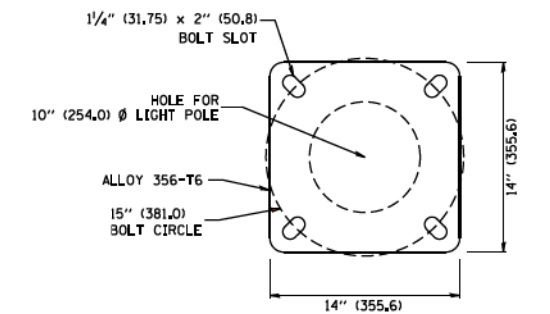
TWIN ARM POLE



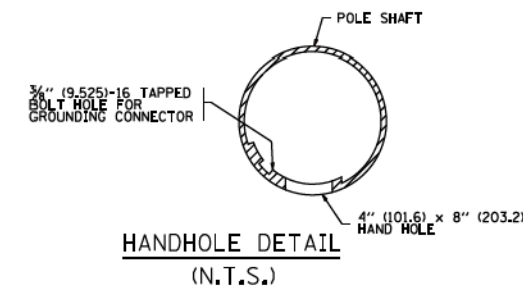
SINGLE ARM POLE



DAVIT ARM CONNECTION  
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL  
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)

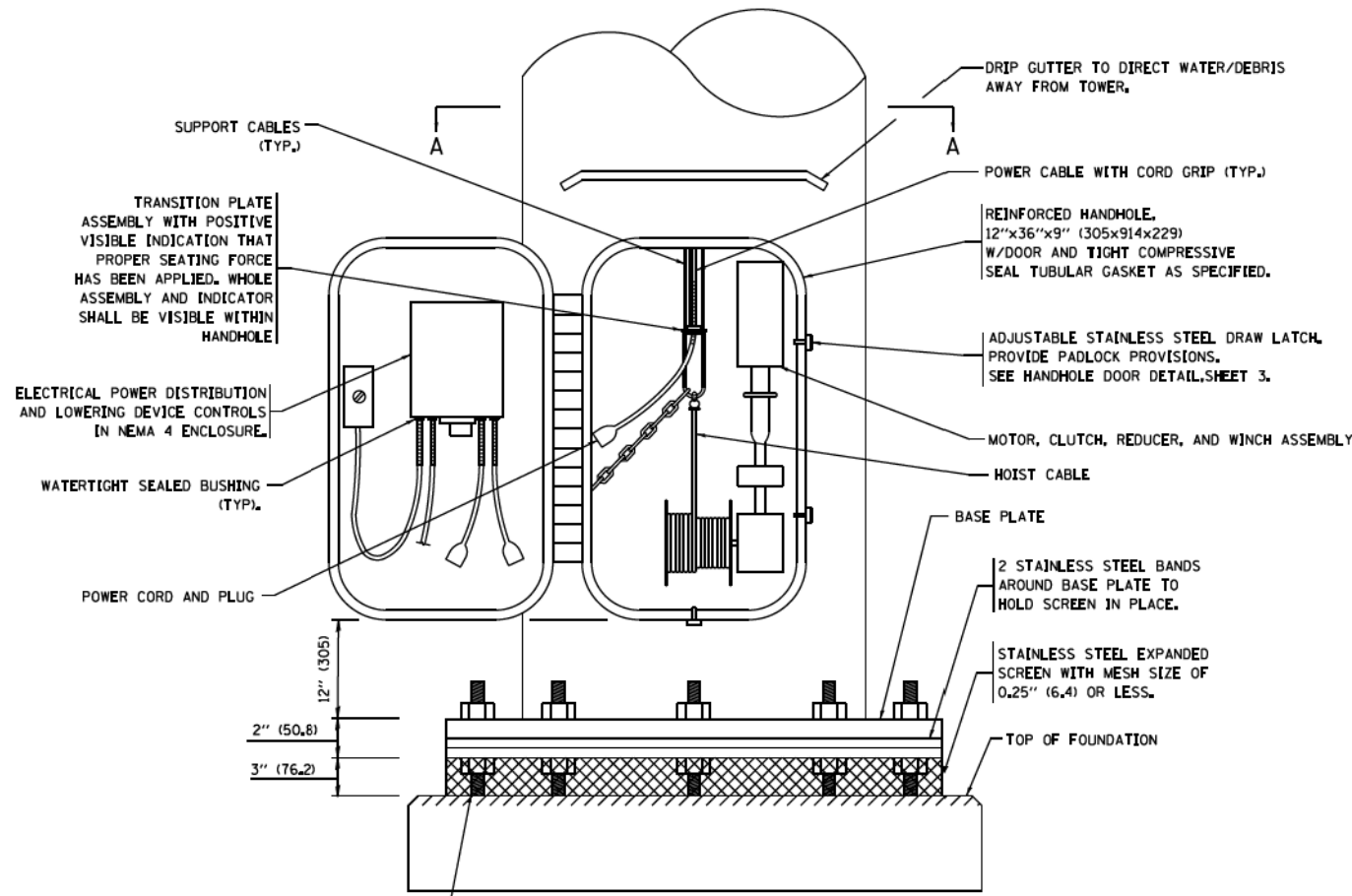
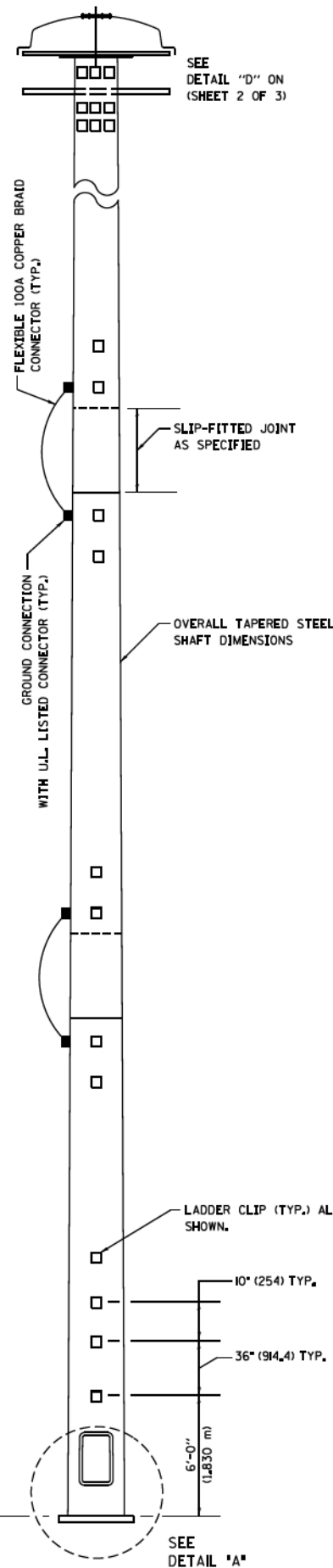


NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
- THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

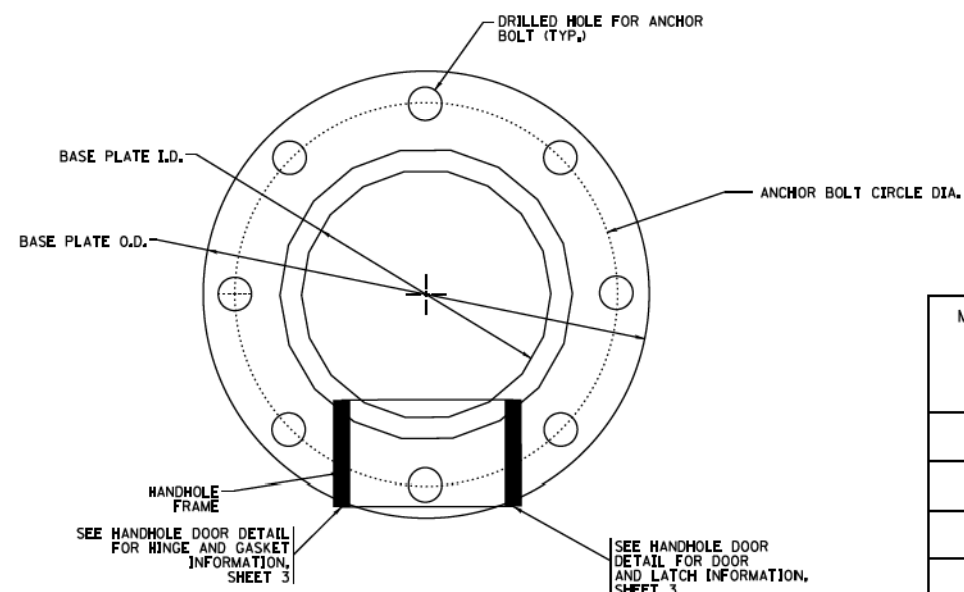
FILE NAME =	USER NAME = lejso	DESIGNED -	REVISED - D. DREW 05-07-92	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DAVIT LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pe_work\pwsdot\lejso\080315\be418.dgn		DRAWN - LEY	REVISED - R. TOMSONS 09-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-013R&B-R	COOK	1972	1125
		PLOT SCALE = 50:0000 ' / in.	REVISED - R. TOMSONS 09-02-03					<b>BE-410</b>		CONTRACT NO.		
		PLOT DATE = 4/4/2013	REVISED - R. TOMSONS 01-18-13					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NUMBER OF SHAFT SECTIONS AS SPECIFIED, MOUNTING HEIGHT AS SPECIFIED



**DETAIL - "A"**

3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.



**SECTION - A-A**

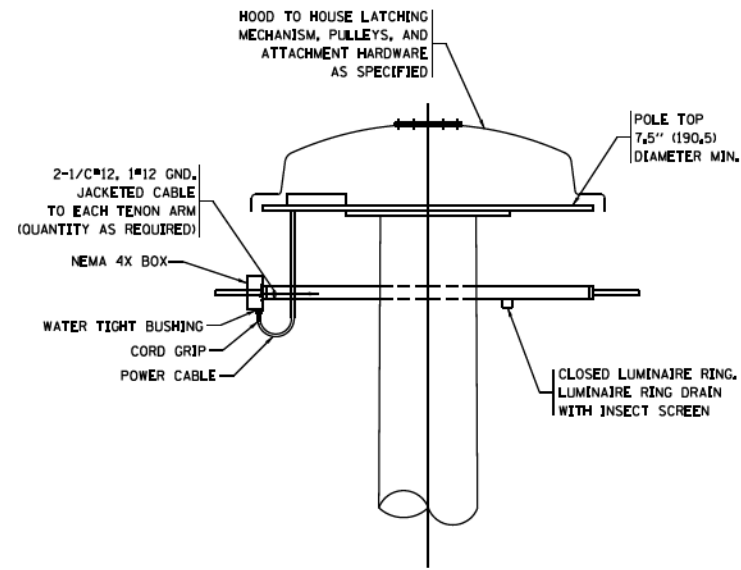
**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I.  
  
A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ M) RESPECTIVELY.
3. ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
4. THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
5. THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
6. A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
7. ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
8. THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL
9. ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT, THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
10. THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
11. PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
12. COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

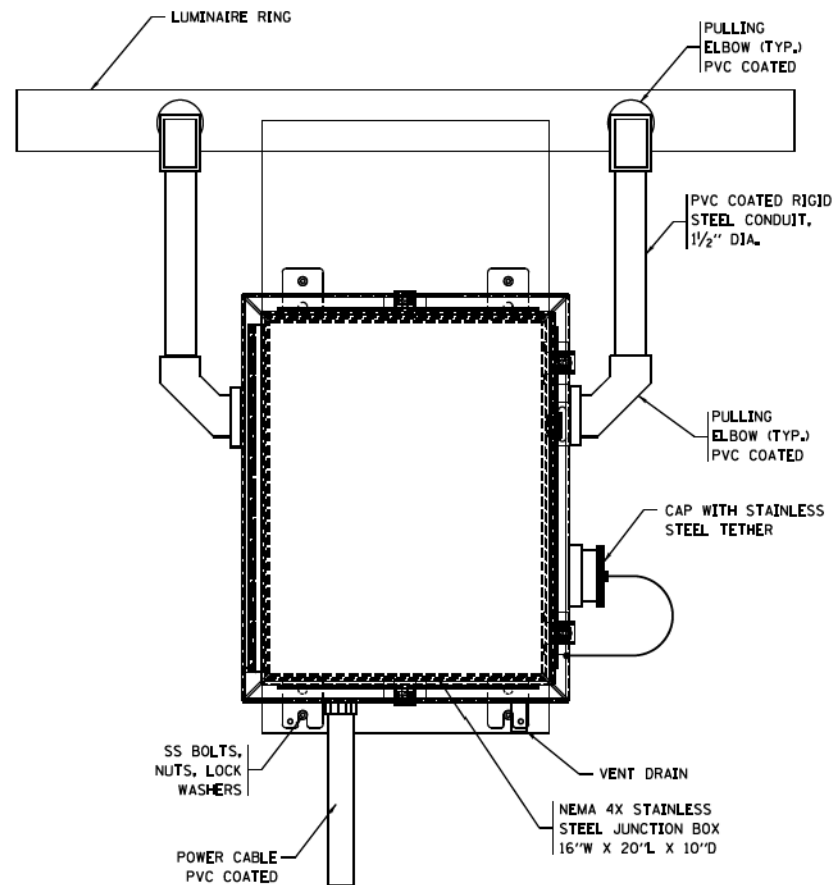
**LIGHT TOWER DIMENSIONS**

MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38

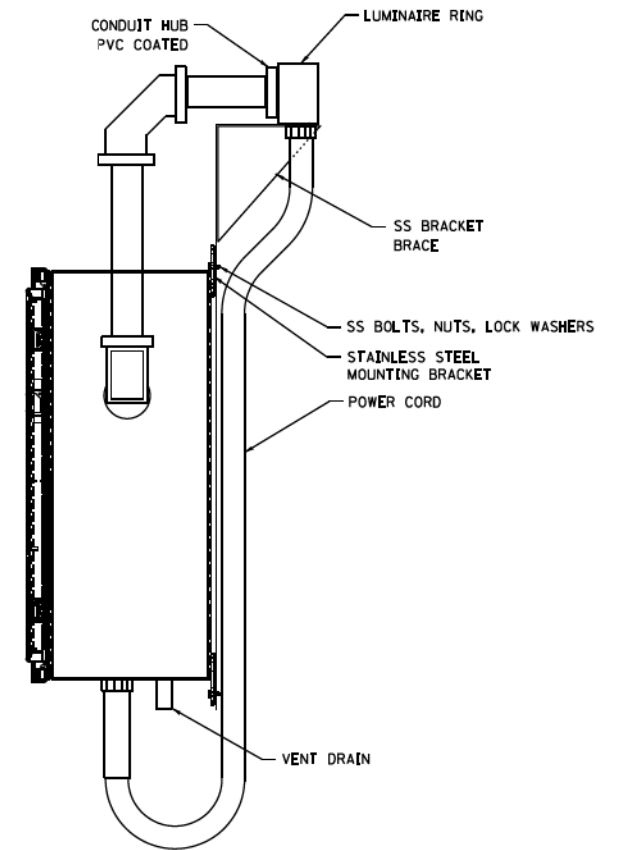
90/94/290



**DETAIL-D**

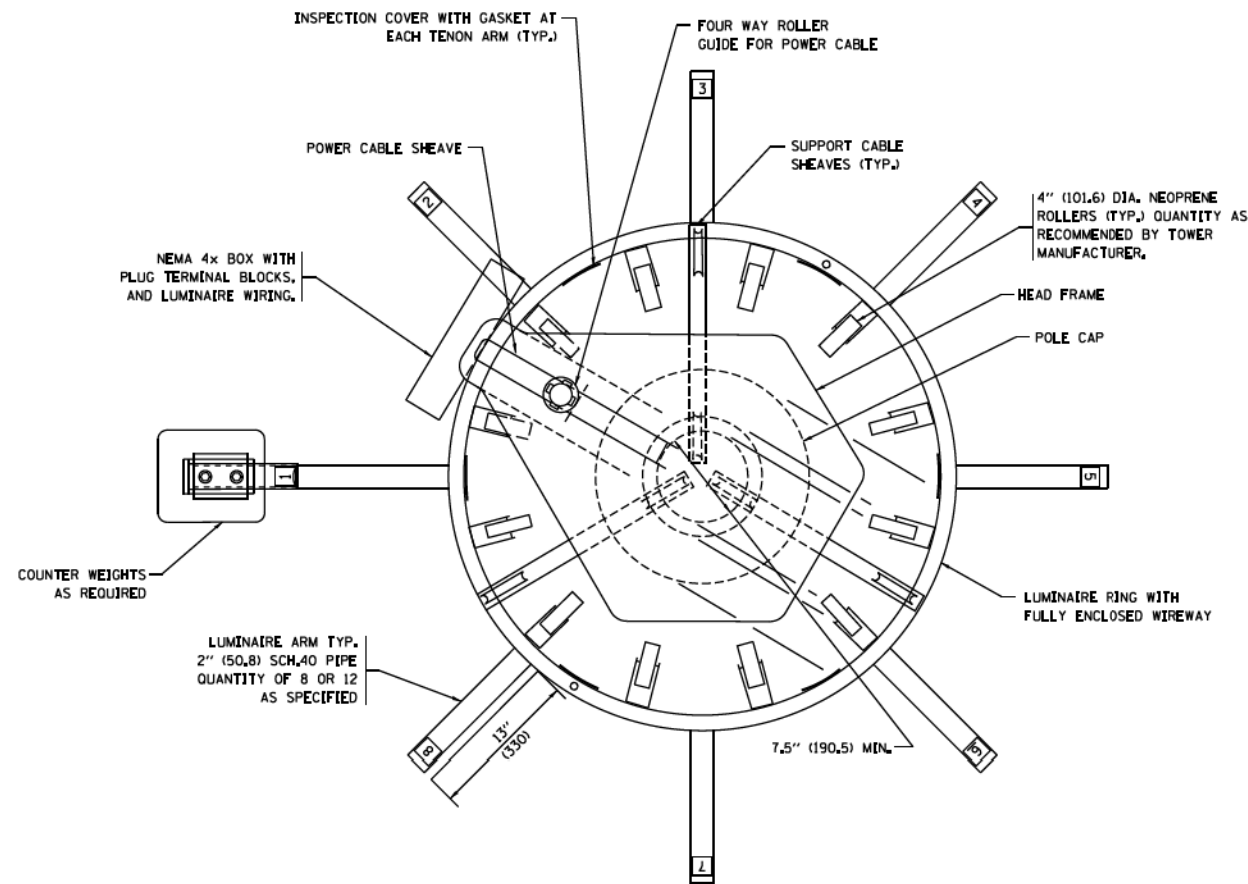


**FRONT VIEW  
N.T.S.**



**SIDE VIEW  
N.T.S.**

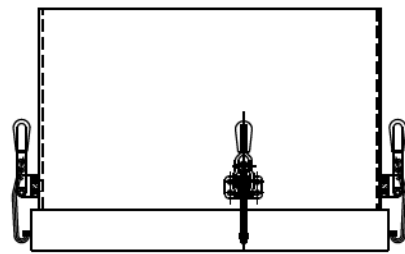
**LUMINAIRE RING TERMINAL BOX**



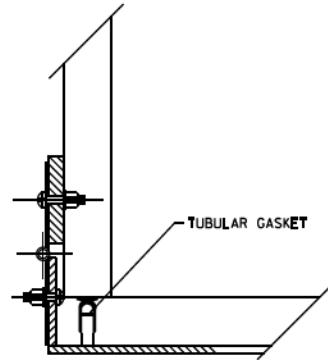
**NOTES:**

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT, THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

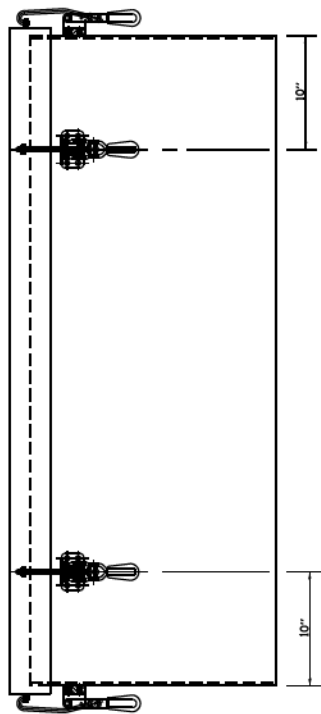
FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)</b>		F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\JL84EBD\INTEG\illinois.gov\PW\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\BAM\CADData\CADsheets\be508.dgn	Footemj	-	- R. TOMSONS 09-02-10		SCALE	SHEET 2 OF 3 SHEETS	STA.	TO STA.	2014-013R&B-R	COOK	1972	1127
PLOT SCALE = 50,0000 / 1"	CHECKED	-	- R. TOMSONS 02-27-13		BE-500		CONTRACT NO.		ILLINOIS FED. AID PROJECT			
Default	PLOT DATE = 7/27/2016	DATE	-		REVISOR		DATE					



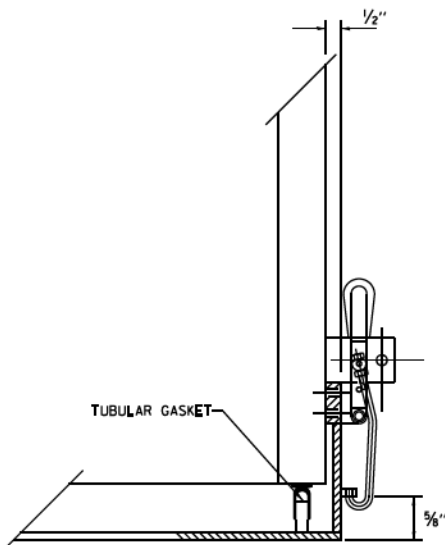
TOP VIEW



HINGE DETAIL

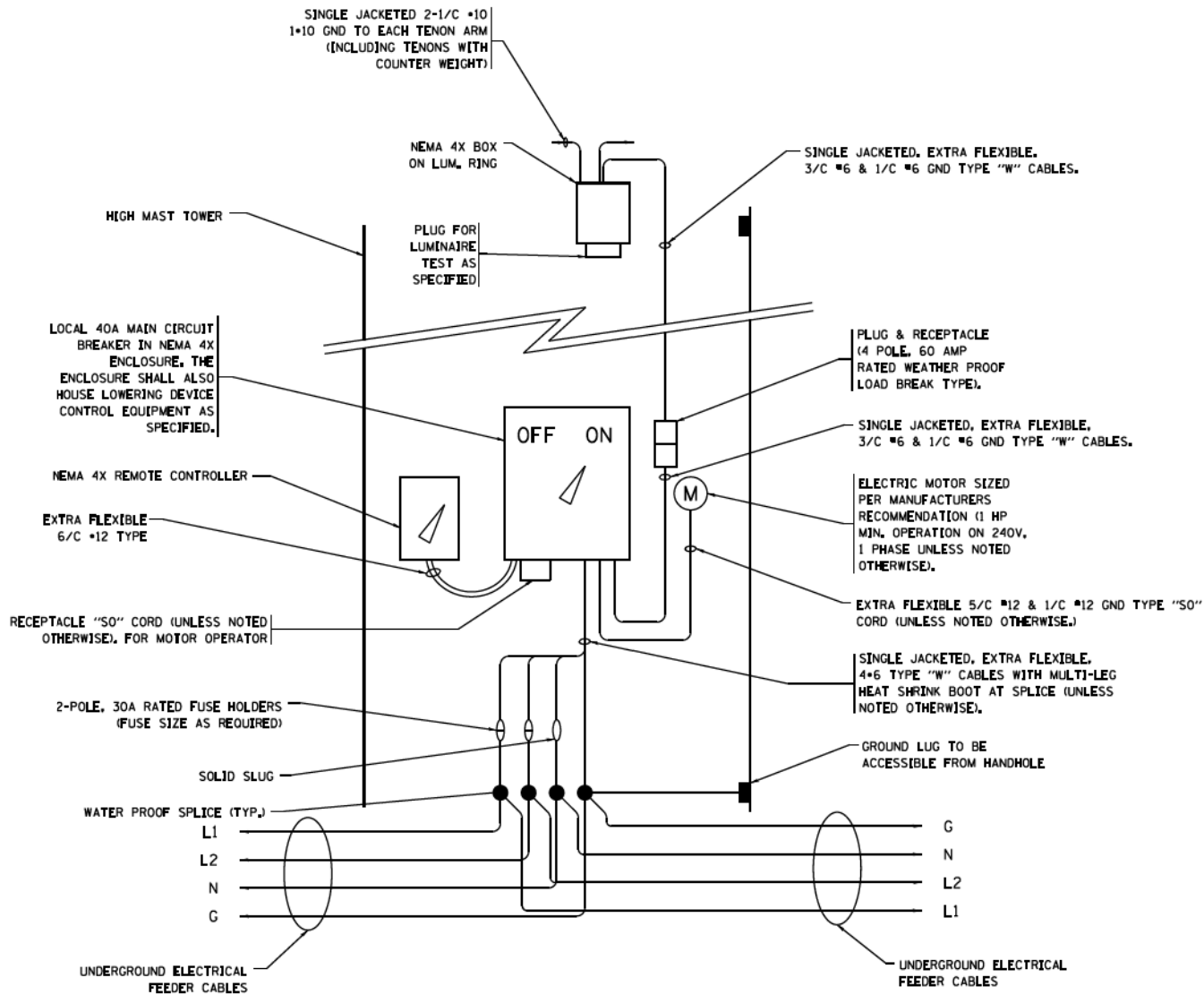


SIDE VIEW

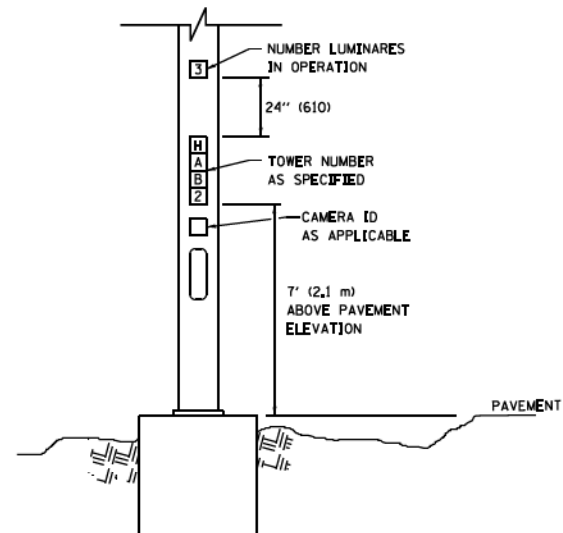


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME *	USER NAME * footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
\\JL84EBD\INTEG\illinois.gov\PW\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\BAM\CADData\CADsheets\be508.dgn		REVISED - R. TOMSONS 02-27-13	REVISED - R. TOMSONS 04-29-16
PLOT SCALE * 50,0000 / 1/16	CHECKED -	DATE -	REVISED - R. TOMSONS 07-26-16
Default	PLOT DATE = 7/27/2016		

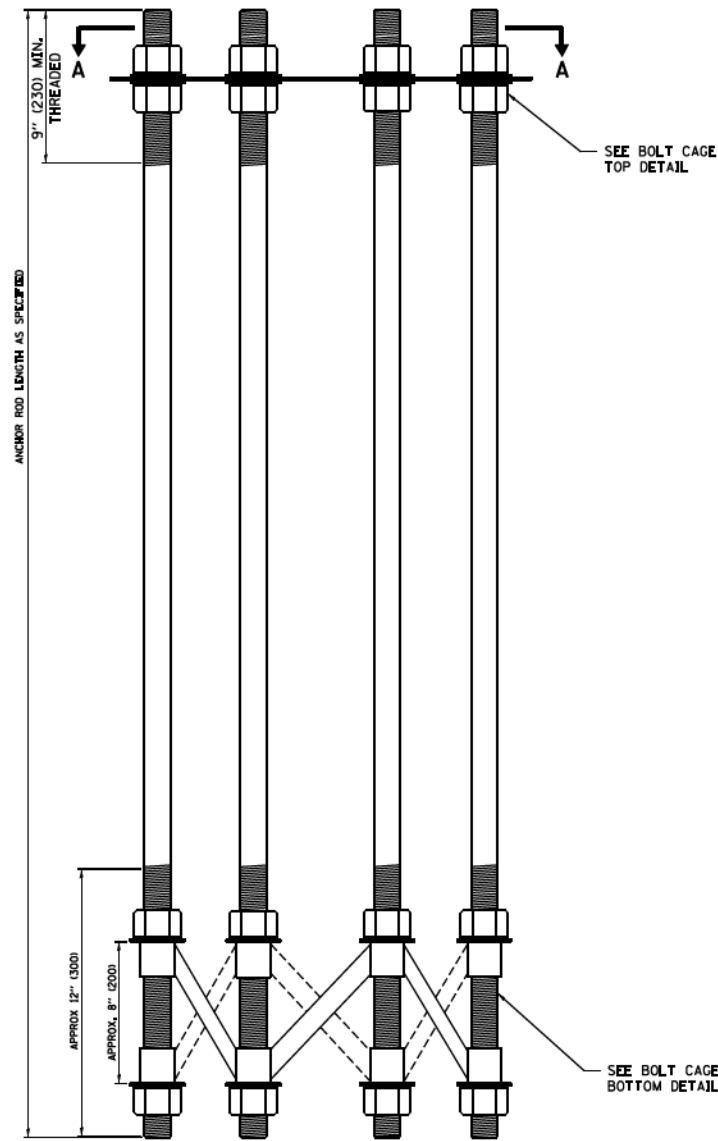
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER  
100 FT TO 160 FT (30 m TO 49 m)

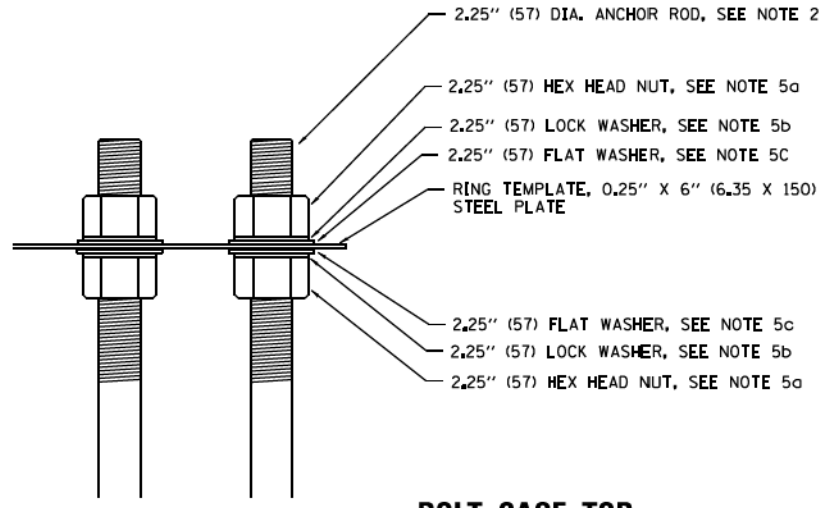
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-013R&B-R	COOK	1972	1128
BE-500		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

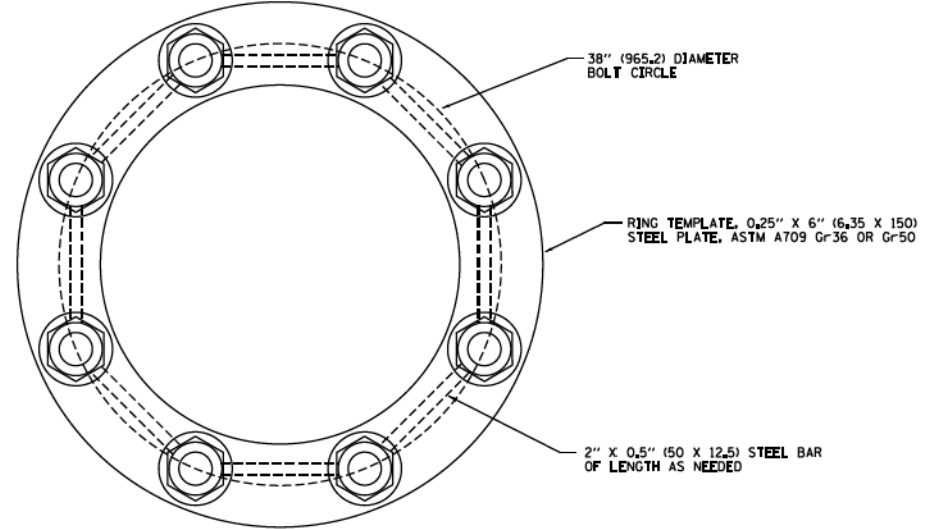




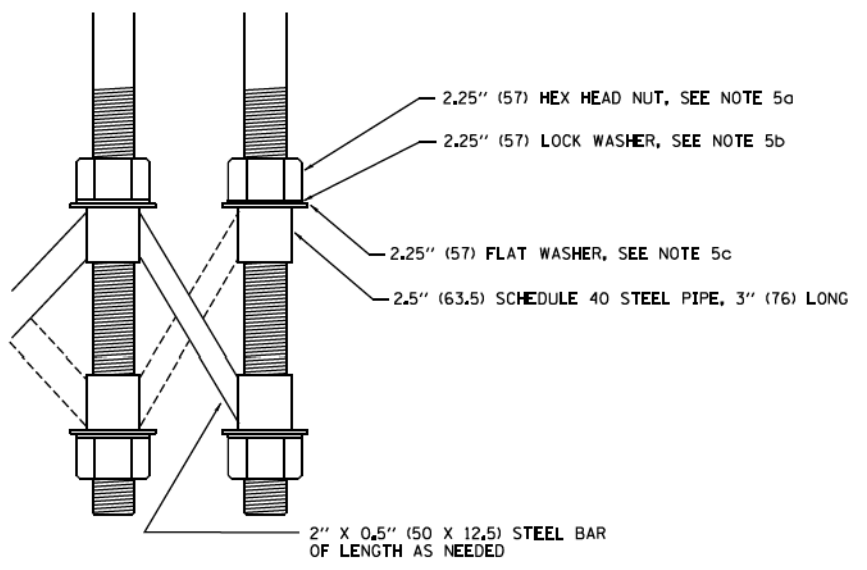
**ANCHOR BOLT CAGE**



**BOLT CAGE TOP**



**SECTION A-A**



**BOLT CAGE BOTTOM**

**NOTES:**

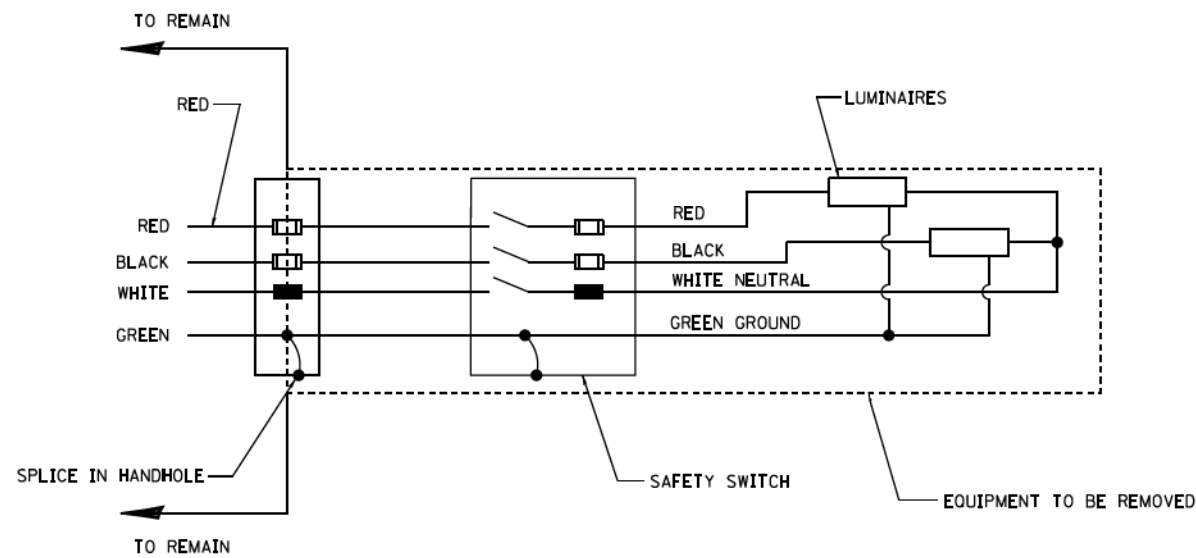
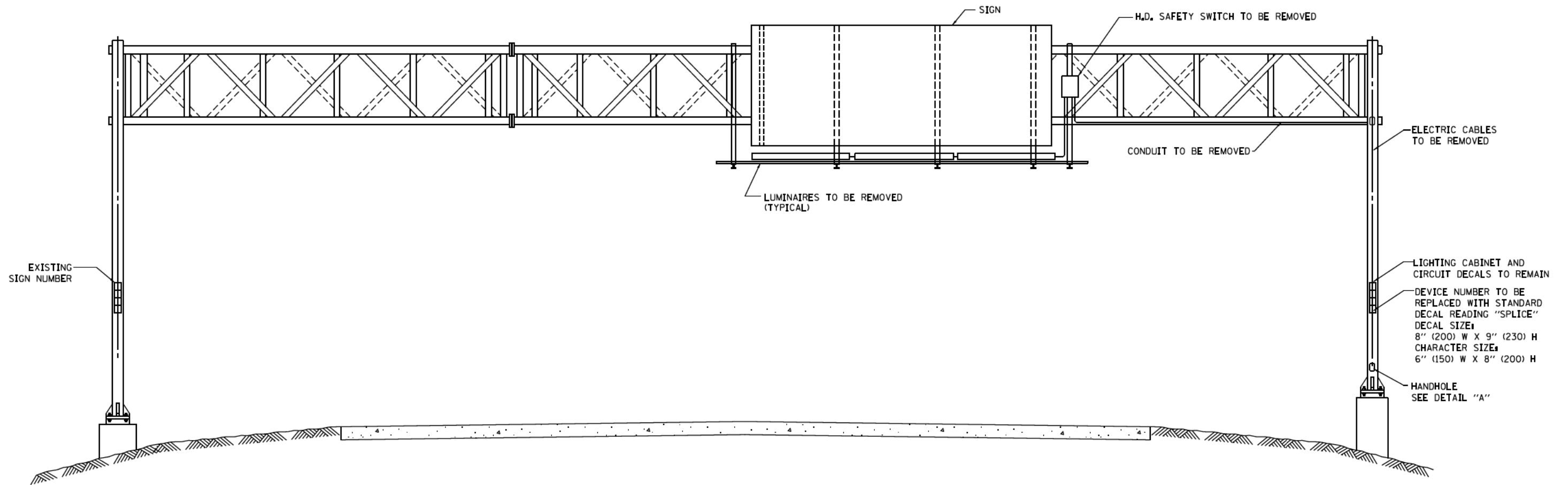
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
  - a) 1.5 (38) HEX HEAD NUTS  
AASHTO M291, GRADE C, C3, D, DH OR DH3  
HOT DIPPED GALVANIZED AASHTO M 232
  - b) 1.5 (38) HELICAL LOCK WASHERS  
ANSI/ASME B18.21.1  
I.D. 1.504 - 1.524  
O.D. 2.159 MAX.  
WIDTH 0.292 MIN.  
THICKNESS 0.375 MIN.  
HARDNESS 26-45 ROCKWELL C  
HOT DIPPED GALVANIZED AASHTO M232
  - c) 1.5 (38) FLAT WASHERS  
AASHTO M293  
O.D. 2.75  
I.D. 1.56  
THICKNESS 0.16 - 0.25  
HARDNESS 26-45 ROCKWELL C.  
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

FILE NAME	USER NAME	DESIGNED	REVISED
\\JL084EB\INTEG\illinois.gov\PW\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\BAM\CADData\CADsheets\be511.dgn	Footemj	R. TOMSONS	R. TOMSONS 02-27-13
			R. TOMSONS 04-29-16
		CHECKED	REVISED
	PLOT DATE = 4/29/2016	DATE	REVISED
		09-02-10	

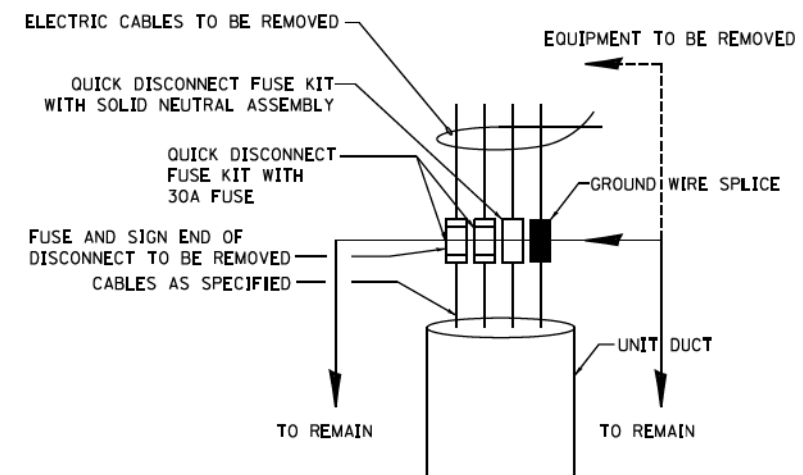
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>HIGH MAST LIGHT TOWER</b>			
<b>150 FT TO 160 FT FOUNDATION DETAIL</b>			
SCALE	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-013R&B-R	COOK	1972	1130
<b>BE-511</b>			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



**WIRING DIAGRAM**



**DETAIL A**

**WIRING MODIFICATIONS:**

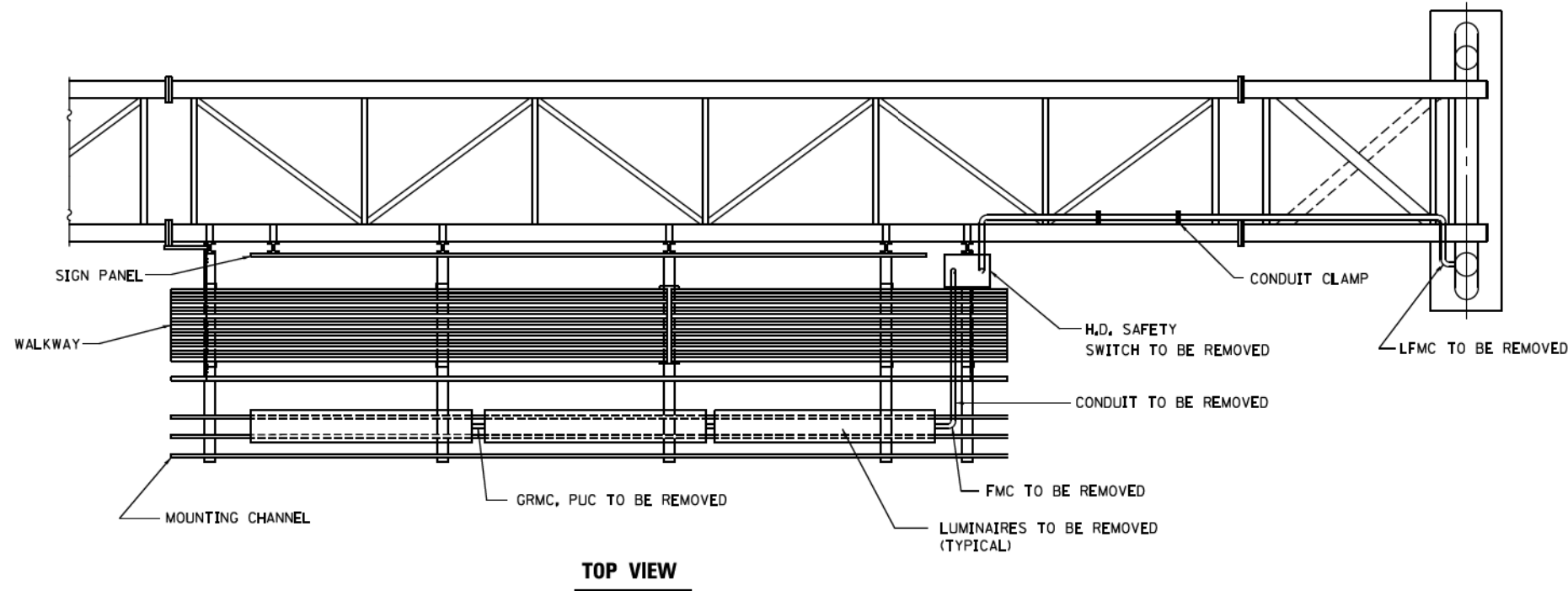
- A) IF SIGN IS NOT A FED THRU;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
  - 2) CAP LINE SIDE OF WIRES.
  
- B) IF SIGN IS USED AS A MID CIRCUIT TAP;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
  - 2) RESPLICE LINE SIDE CABLES TO MAINTAIN CIRCUIT CONTINUITY.

**NOTE:**

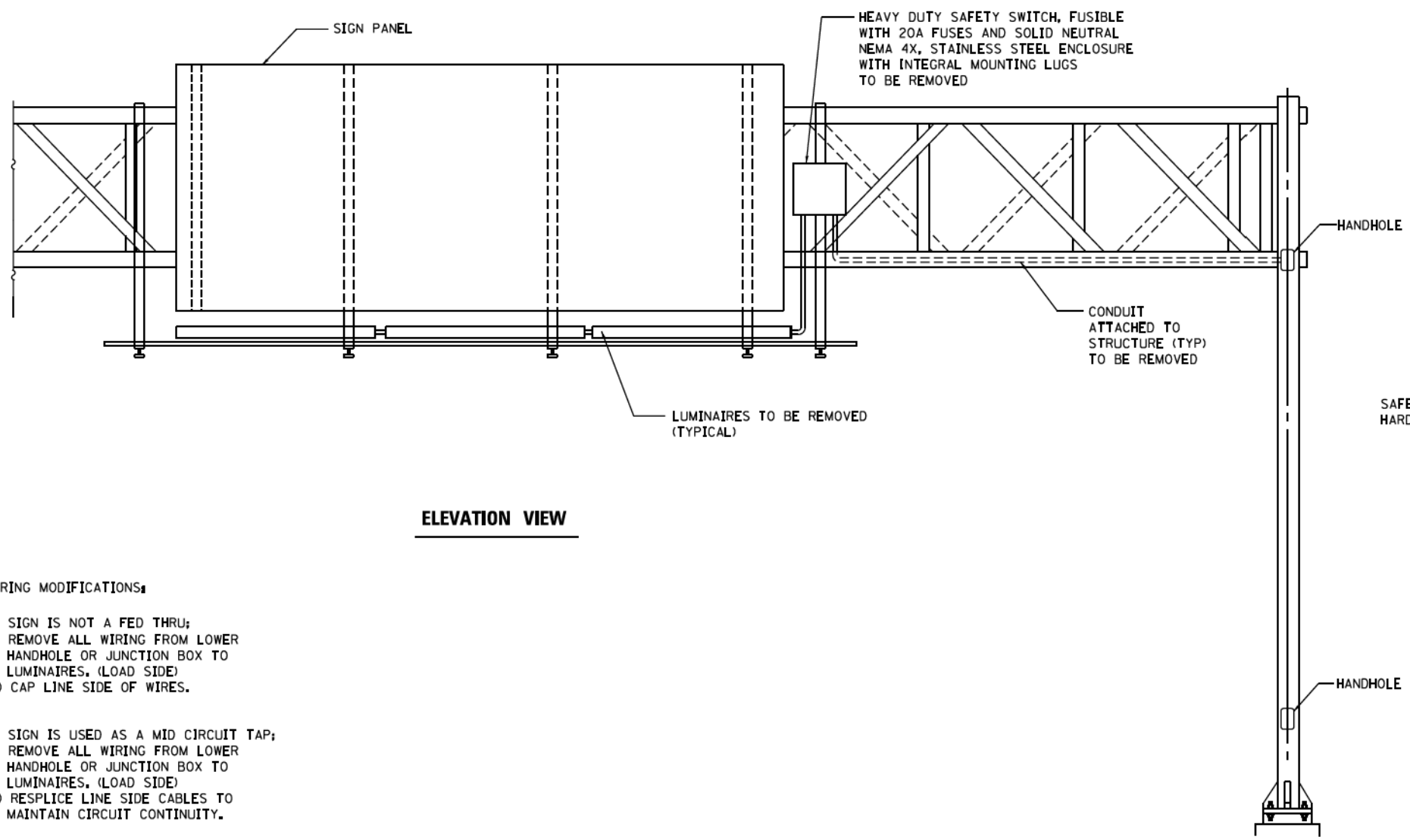
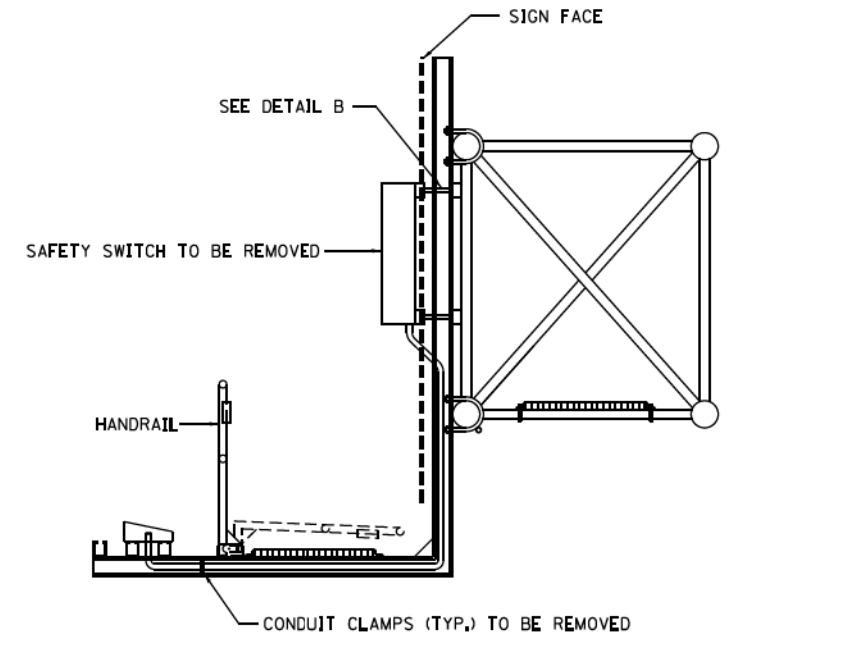
1. CONTRACTOR TO COORDINATE WITH IDOT ELECTRIC MAINTENANCE CONTRACTOR PRIOR TO PERFORMING ANY WORK.

• 90/94/290

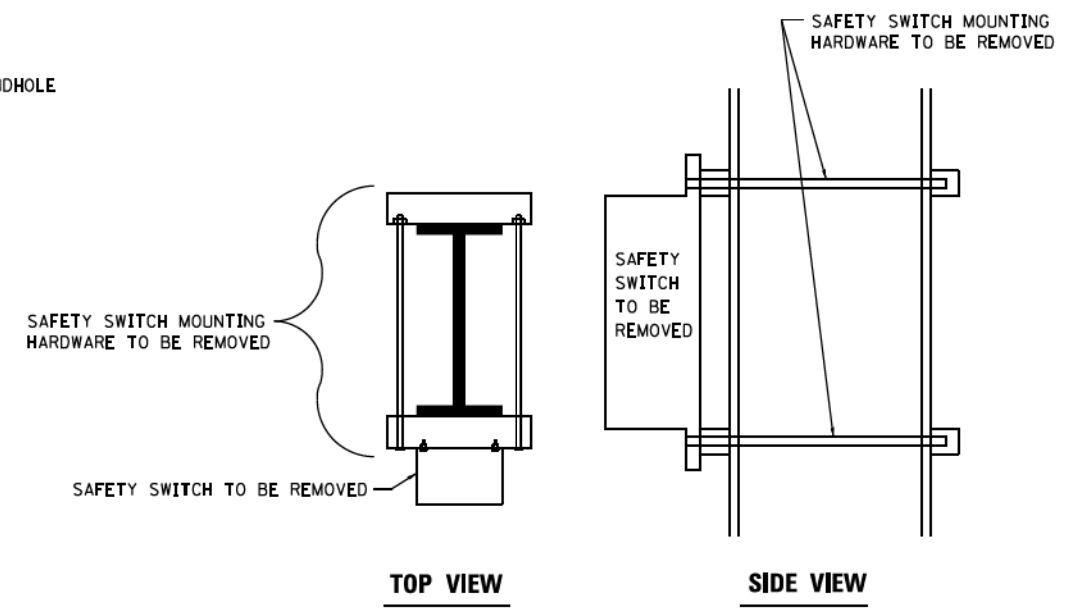
FILE NAME = W:\dss\statd\22x34\be618.dgn	USER NAME = lszkr-f	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL OF ELECTRICAL LIGHTING FROM SIGN STRUCTURE SHEET 1 OF 2 SPAN TYPE</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 5/8"=1'-0"	DRAWN -	REVISED -				•	2014-013R&B-R	COOK	1972	1131
	PLOT DATE = 10/16/2014	CHECKED -	REVISED -				<b>BE-610</b>		<b>CONTRACT NO.</b>		
				DATE = 10-16-14	REVISI	SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



**TOP VIEW**



**ELEVATION VIEW**



**TOP VIEW**

**SIDE VIEW**

**DETAIL B**

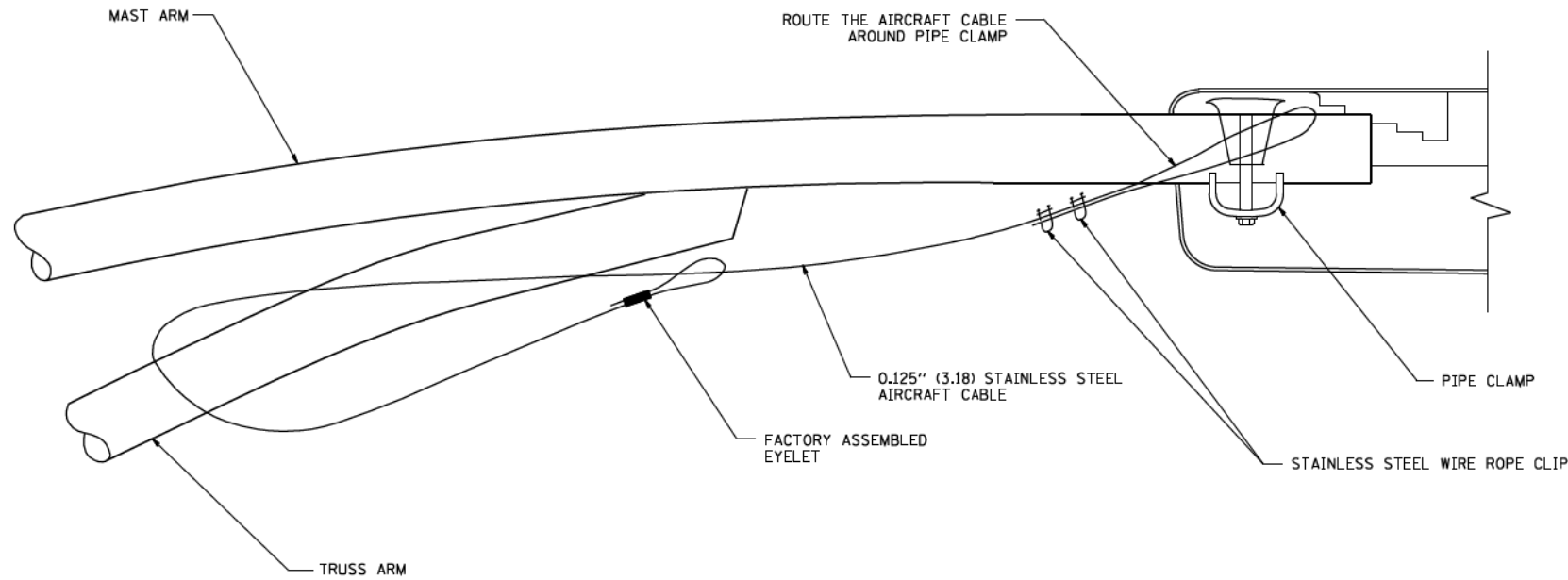
**WIRING MODIFICATIONS:**

- A) IF SIGN IS NOT A FED THRU;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES, (LOAD SIDE)
  - 2) CAP LINE SIDE OF WIRES.
  
- B) IF SIGN IS USED AS A MID CIRCUIT TAP;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES, (LOAD SIDE)
  - 2) RESPLICE LINE SIDE CABLES TO MAINTAIN CIRCUIT CONTINUITY.

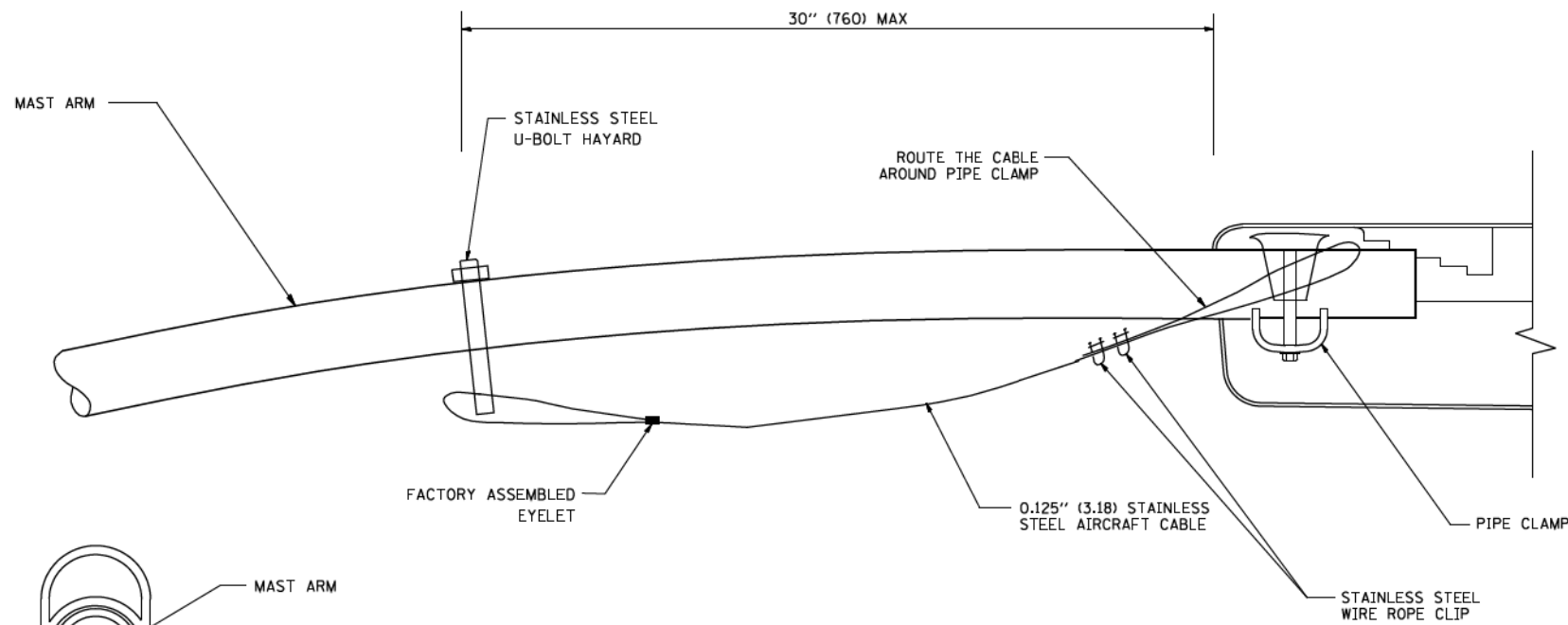
• 90/94/290

FILE NAME W:\dss\statd\22x34\be618.dgn	USER NAME lizekrf	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL OF ELECTRICAL LIGHTING FROM SIGN STRUCTURE SHEET 2 OF 2 SPAN TYPE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / 1" =	DRAWN -	REVISED -					•	2014-013R&B-R	COOK	1972	1132
	PLOT DATE = 10/16/2014	CHECKED -	REVISED -					<b>BE-610</b>				CONTRACT NO.
	DATE = 10-16-14	REVISI	REVISI		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

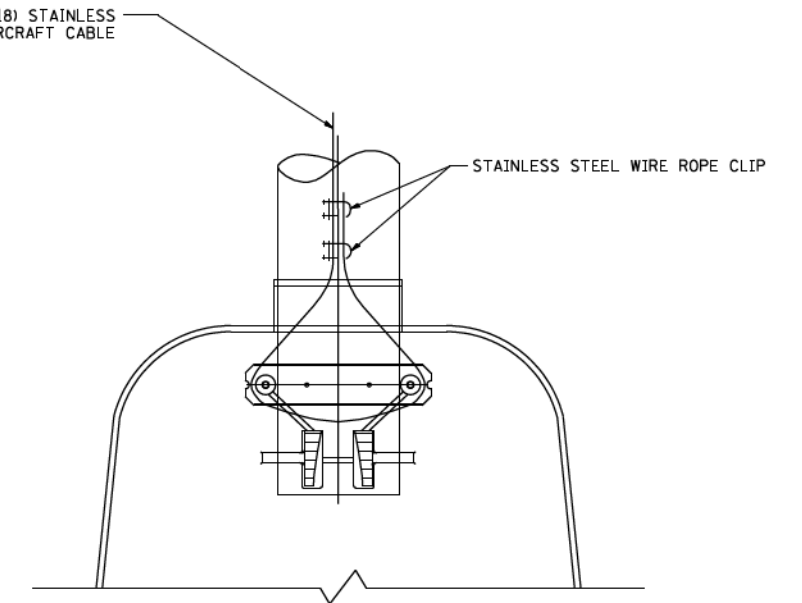




**SIDE VIEW (TRUSS ARM)**  
N.T.S.



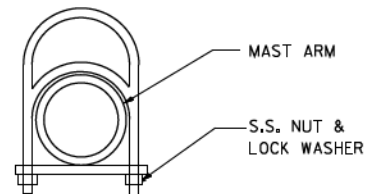
**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
N.T.S.



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

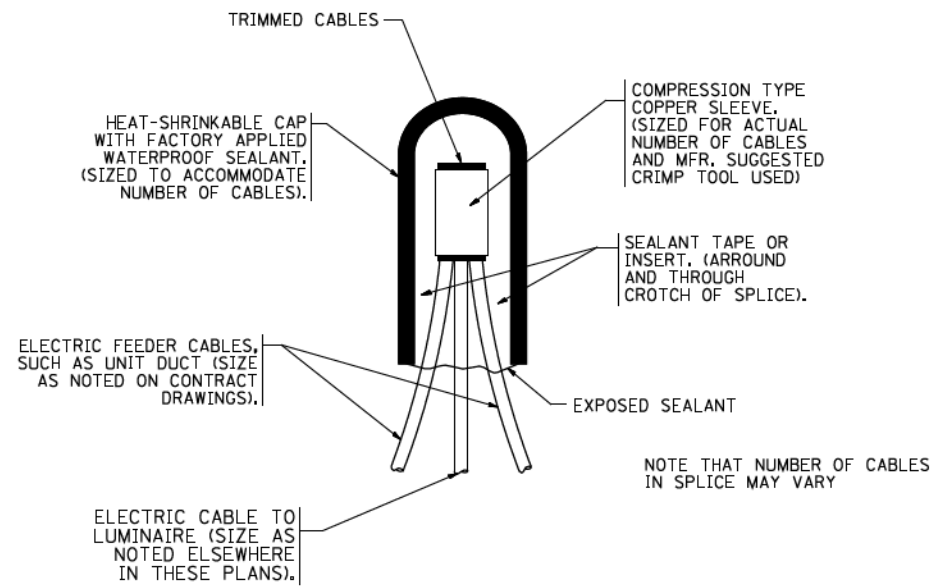
**NOTES:**

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.



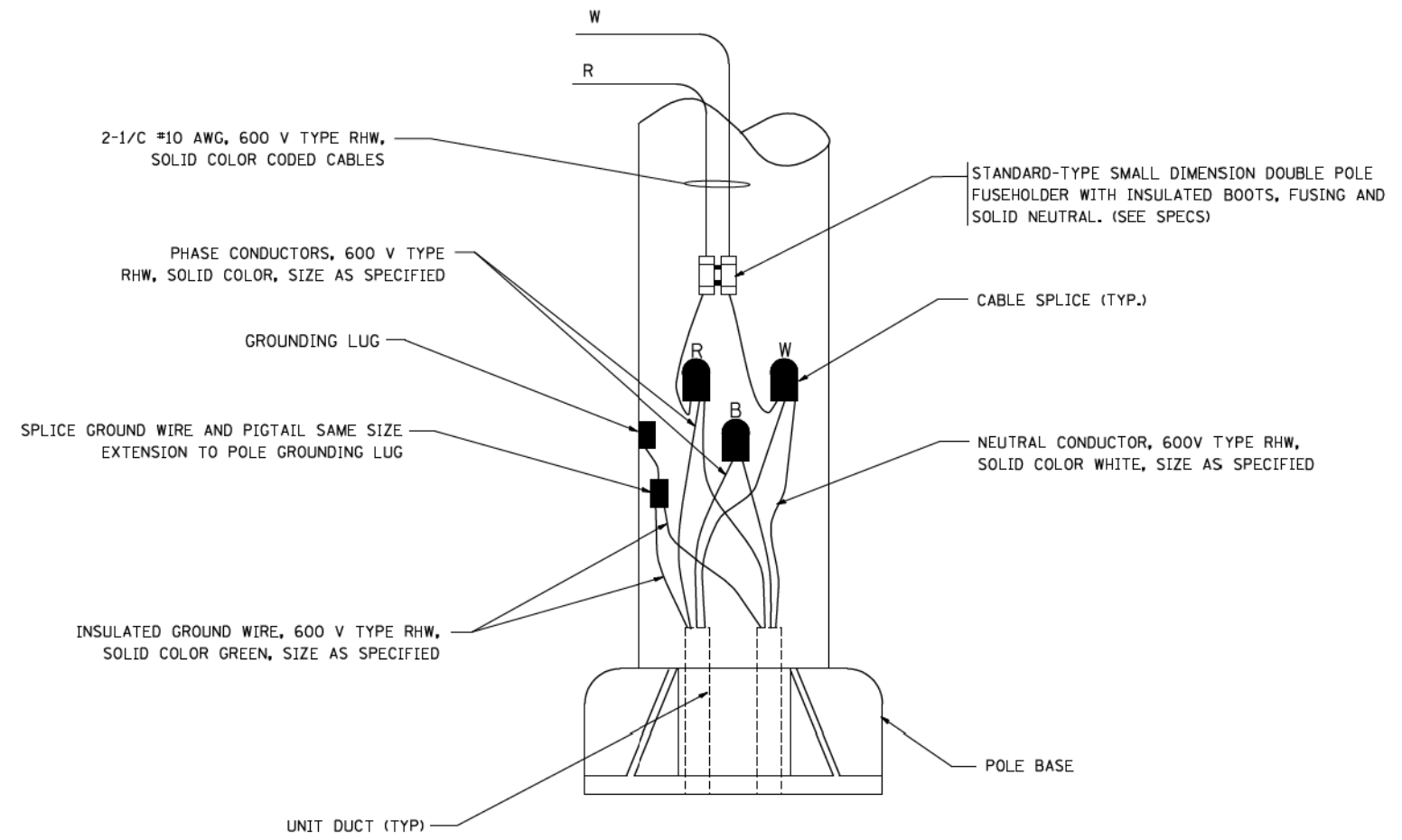
STAINLESS STEEL U-BOLT HAYARD

FILE NAME = W:\dststd\22x34\be701.dgn	USER NAME = gog11enob1	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LUMINAIRE SAFETY CABLE ASSEMBLY</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50:000 ' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-013R&B-R	COOK	1972	1133
	PLOT DATE = 1/4/2008	DATE -	REVISED -					<b>BE-701</b>		CONTRACT NO.		
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



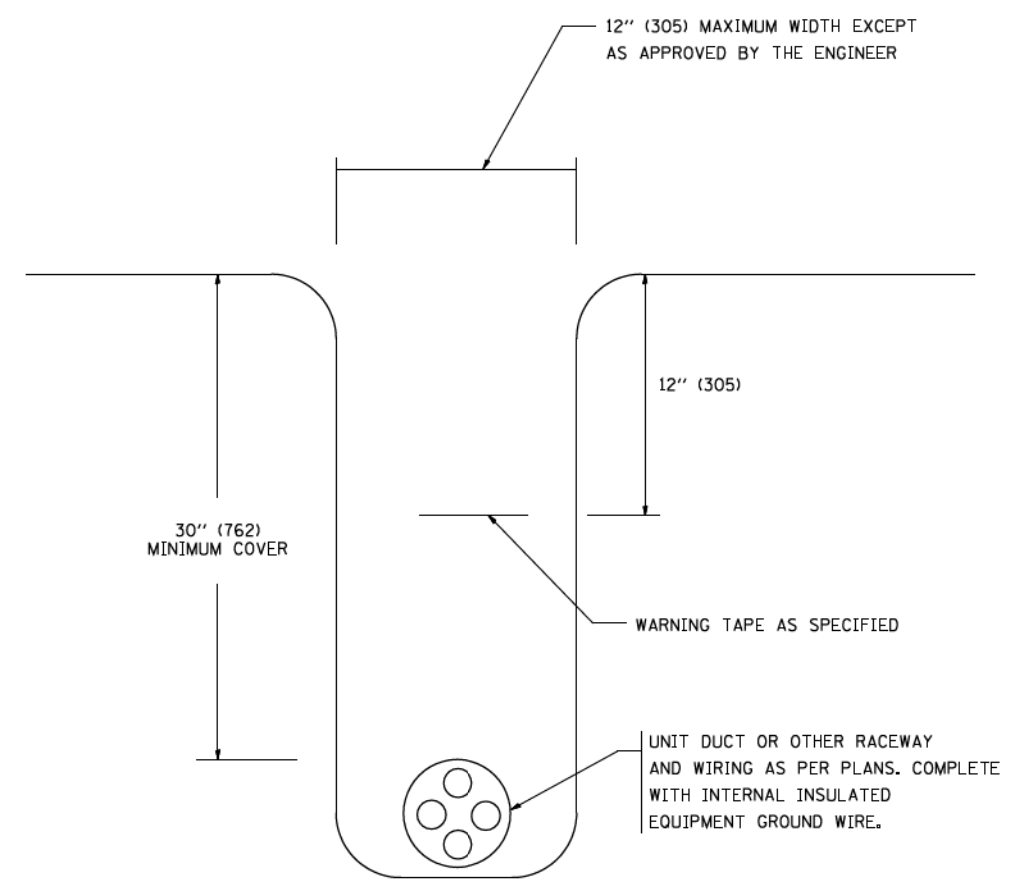
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**

N.T.S.

FILE NAME = W:\distatd\22x34\be702.dgn

USER NAME = gog11enob1

PLOT SCALE = 50:000 ' / IN.

PLOT DATE = 1/4/2008

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED - 08-08-03

REVISED -

REVISED -

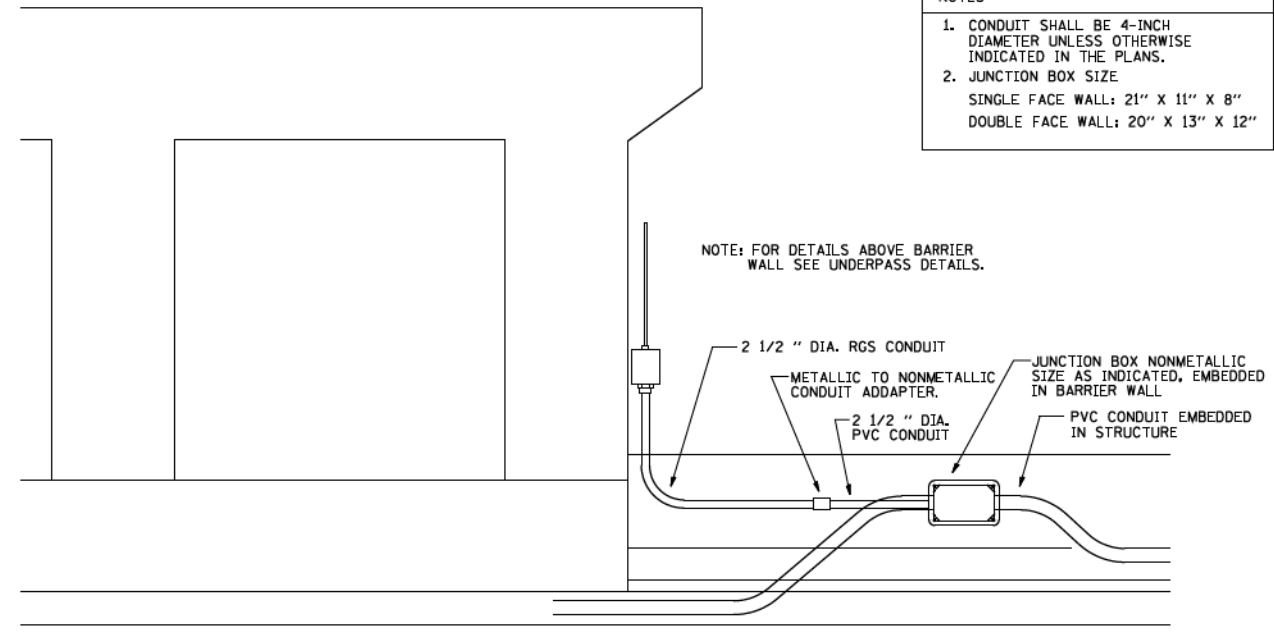
REVISED -

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

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

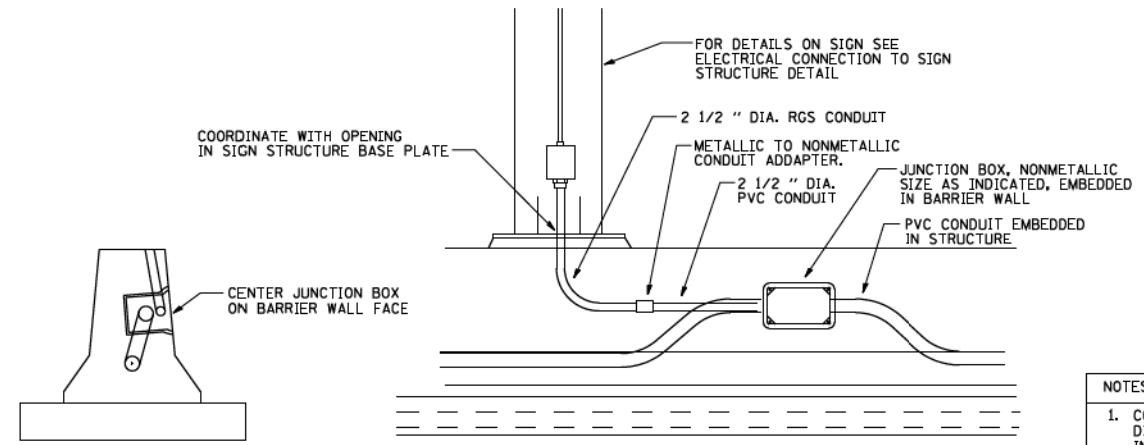
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1134
<b>BE-702</b>			<b>CONTRACT NO.</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



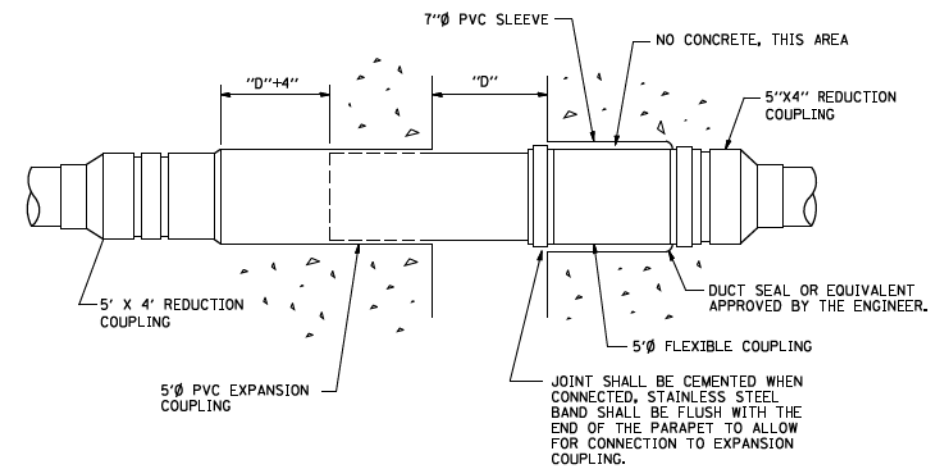
- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BWD  
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

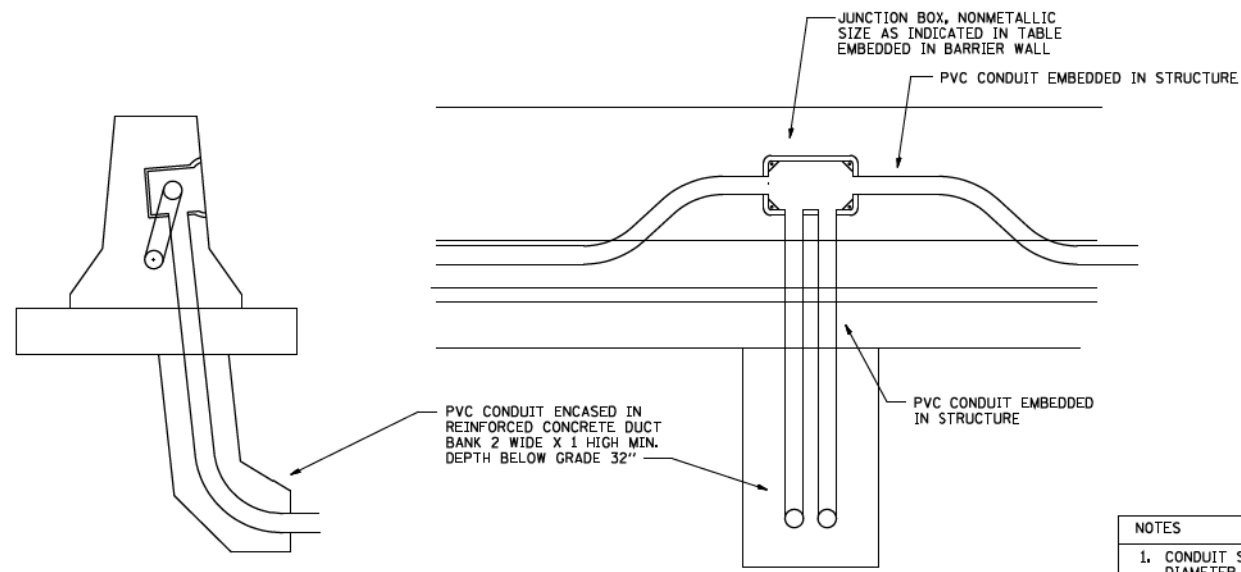


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

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

FILE NAME =  
ba783.dgn

USER NAME = gog11enob1  
PLOT SCALE = 5/8" = 1' / IN.  
PLOT DATE = 2/5/2009

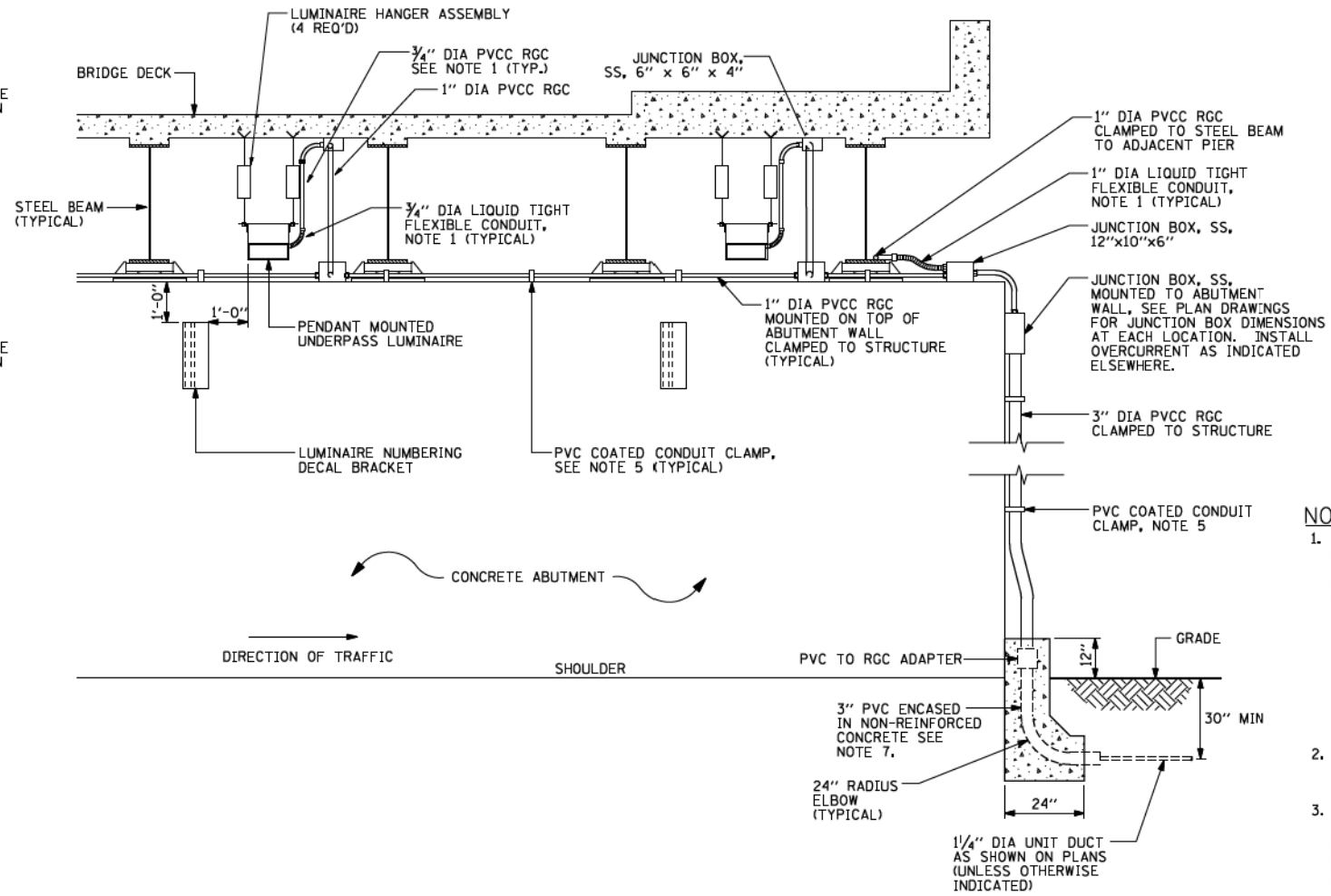
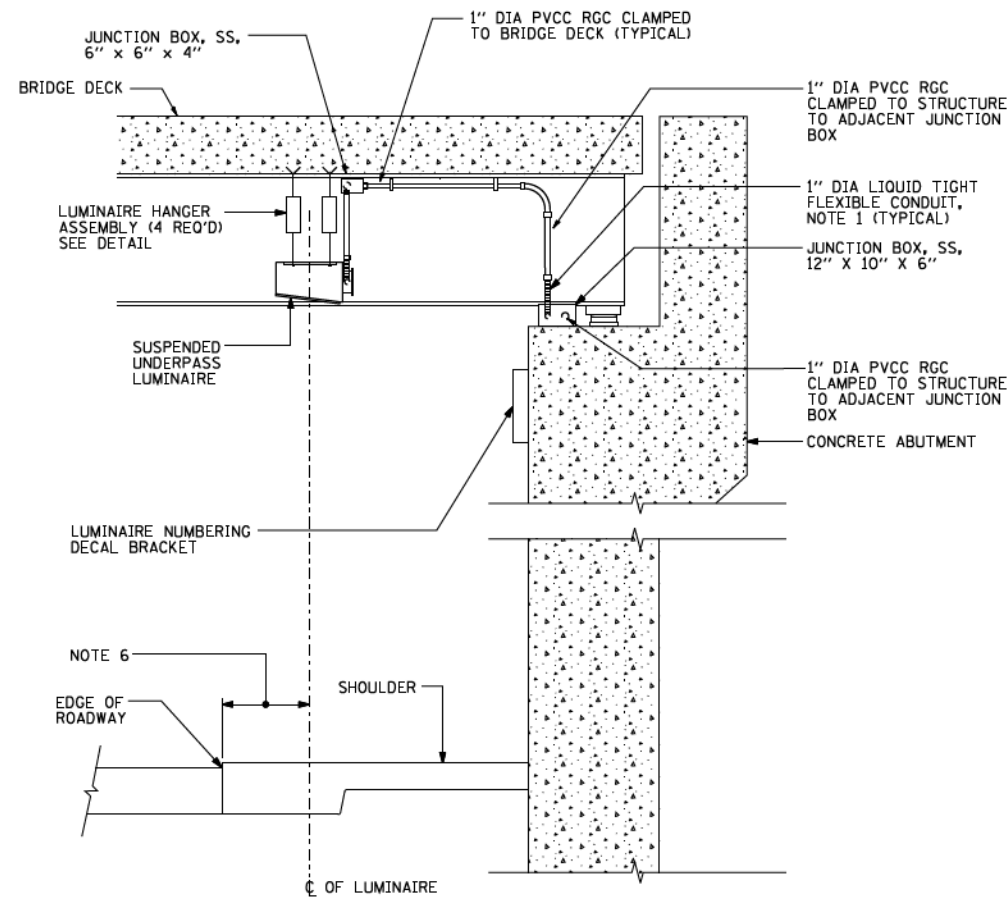
DESIGNED -  
DRAWN -  
CHECKED -  
DATE - 01-20-2009

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

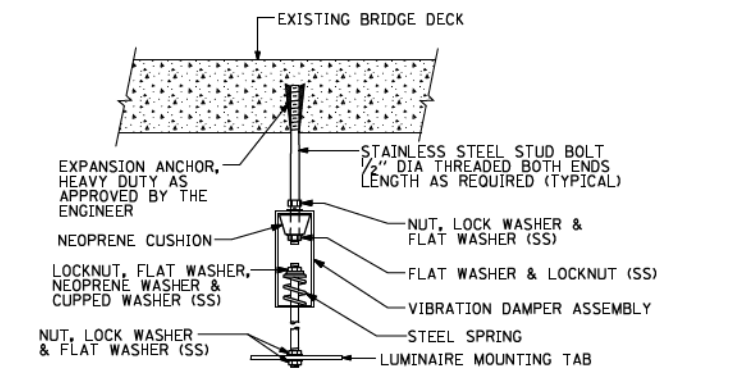
MISCELLANEOUS ELECTRICAL DETAILS, SHEET B  
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE  
PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING  
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BE-703			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

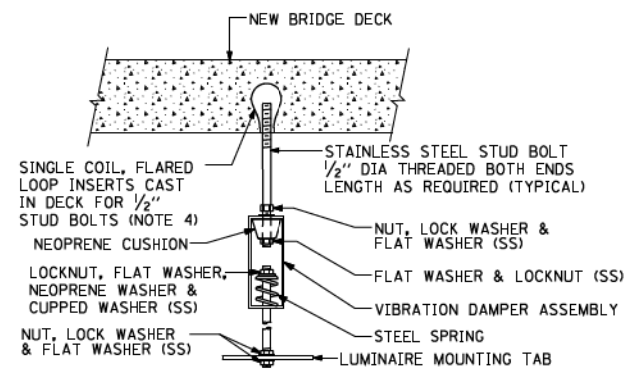


**NOTES:**

- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN, PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 1/2" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
- SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
- THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

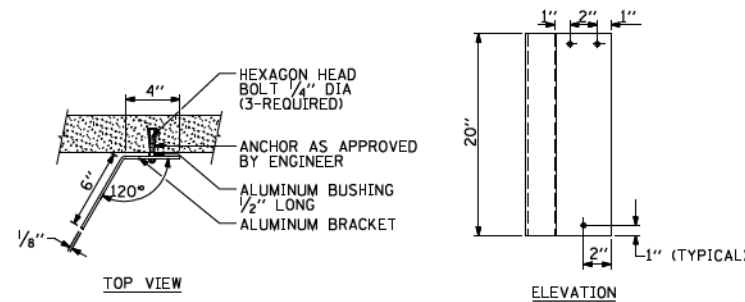


EXISTING BRIDGE DECK INSTALLATION



NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



TOP VIEW

LUMINAIRE NUMBERING DECAL BRACKET NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP NOT TO SCALE



PVC COATED CONDUIT CLAMP NOT TO SCALE

FILE NAME = W:\dststd\22x34\be900.dgn	USER NAME = gog11enob1	DESIGNED -	REVISED - 12-12-05
	PLOT SCALE = 50:000 ' / IN.	DRAWN -	REVISED -
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -
		DATE -	REVISED -

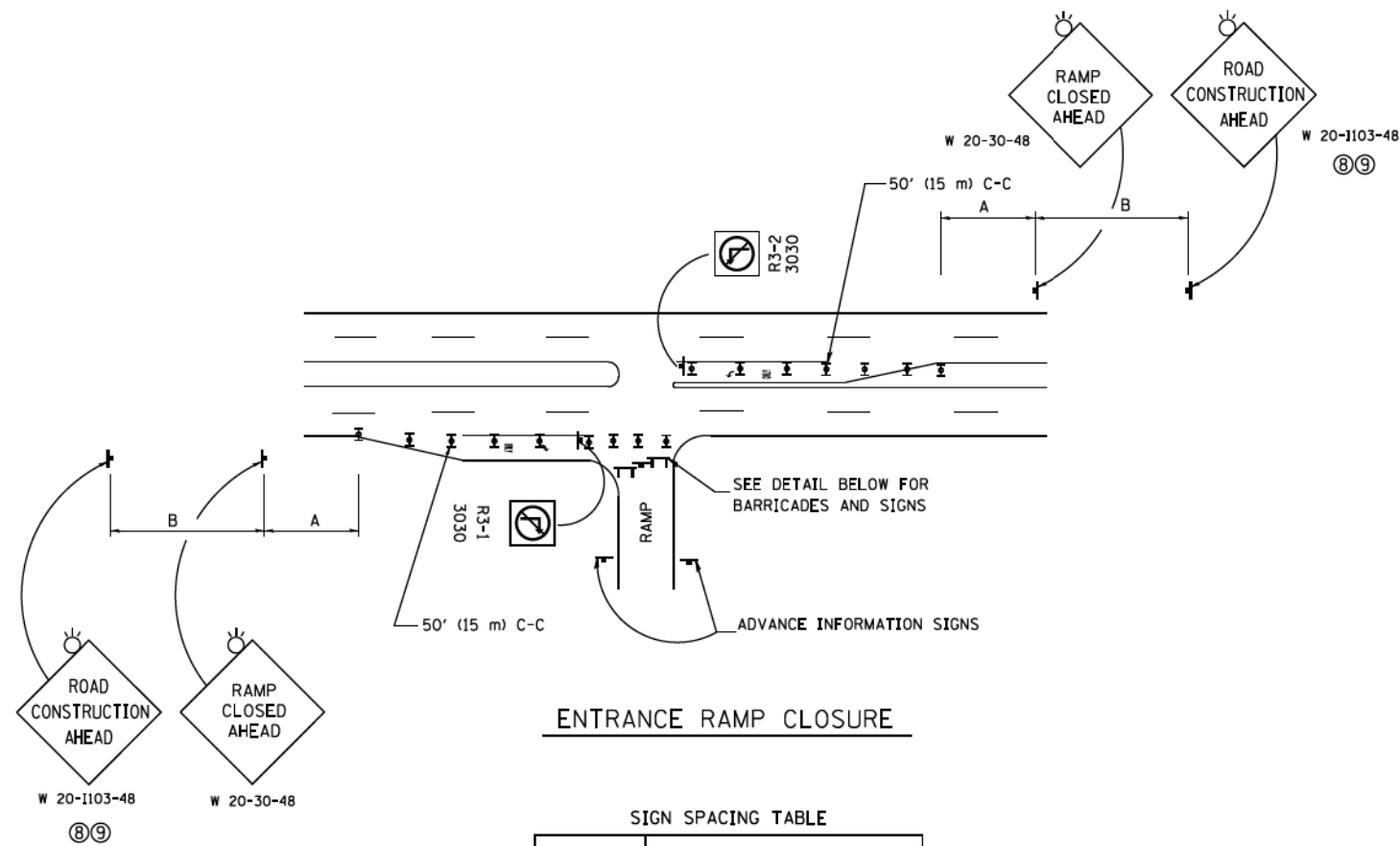
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUSPENDED MOUNT UNDERPASS  
LUMINAIRE INSTALLATION DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1136
BE-800		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

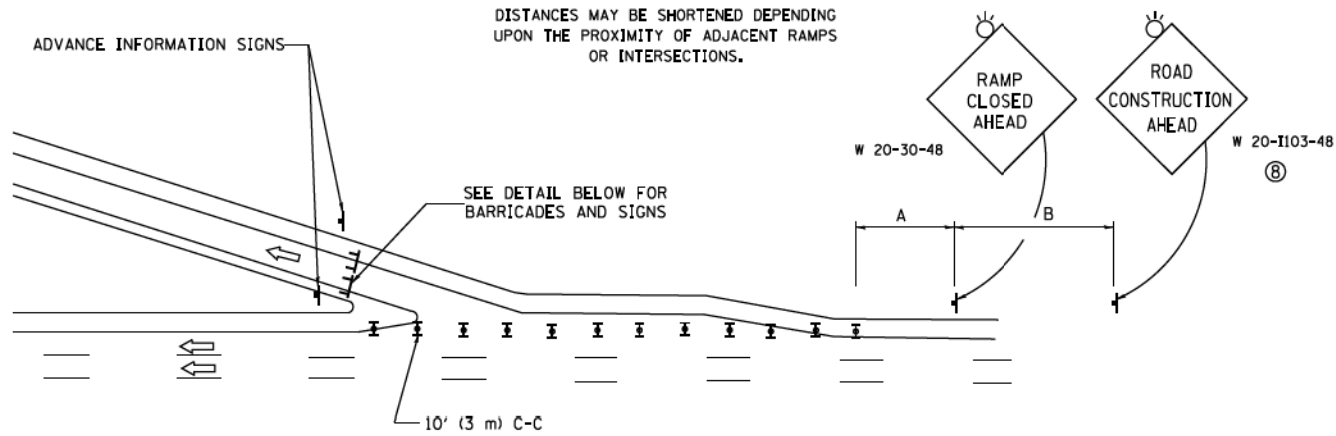




SIGN SPACING TABLE

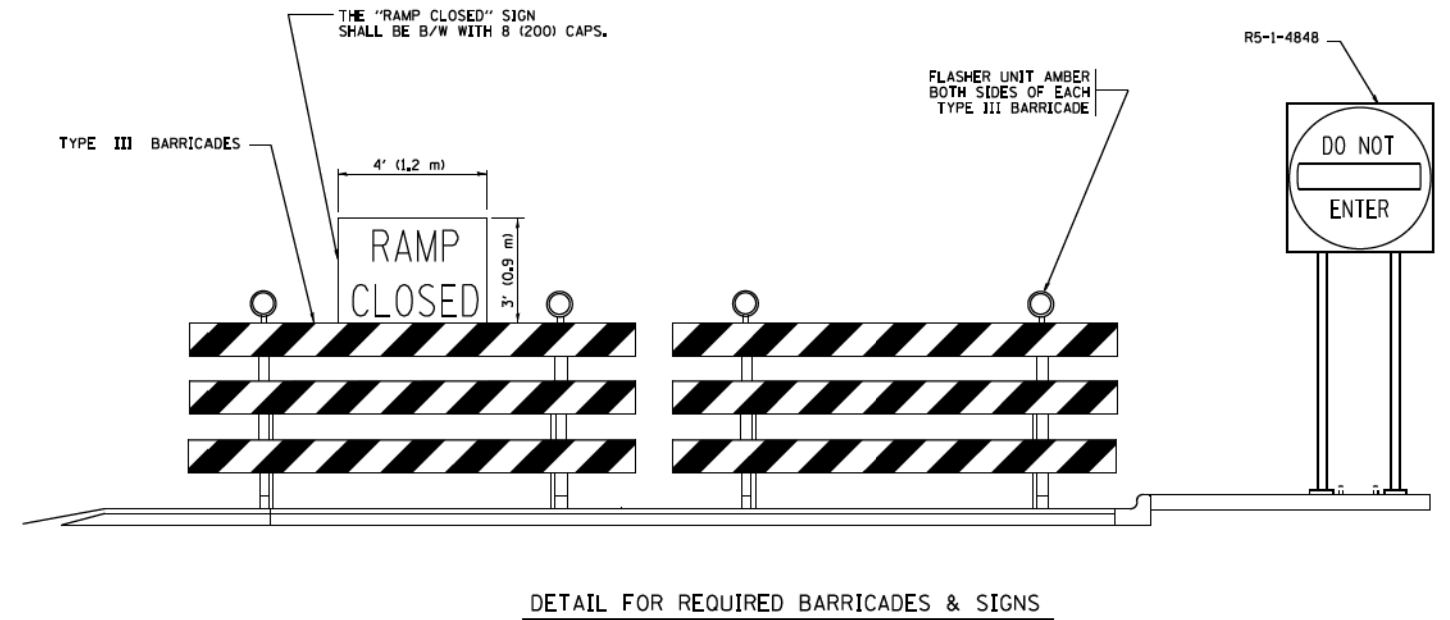
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

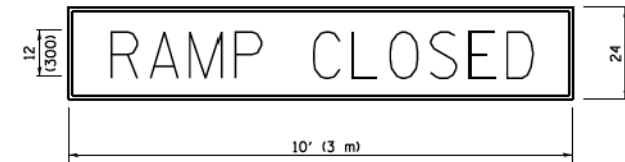


**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



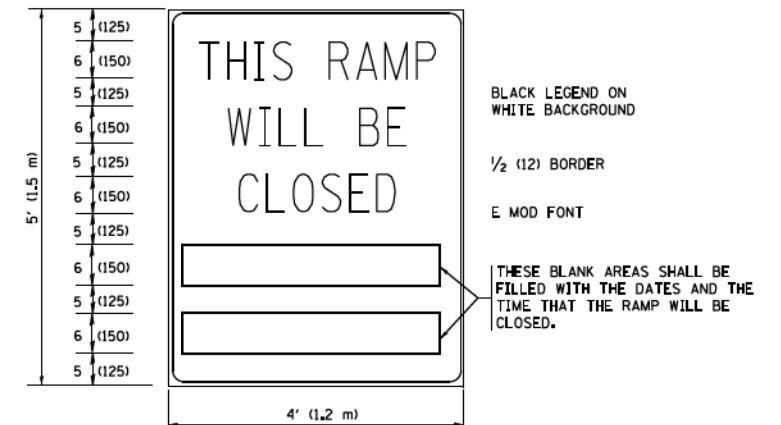
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. 90/94/290

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
cr:\p-work\pws\dot\footemj\d018315\tc08-fign		DRAWN -	REVISED - SPB 01-07
PLOT SCALE = 50:000 ' / in.		CHECKED -	REVISED - SPB 12-09
PLOT DATE = 7/8/2013		DATE - 02-83	REVISED - MD 06-13

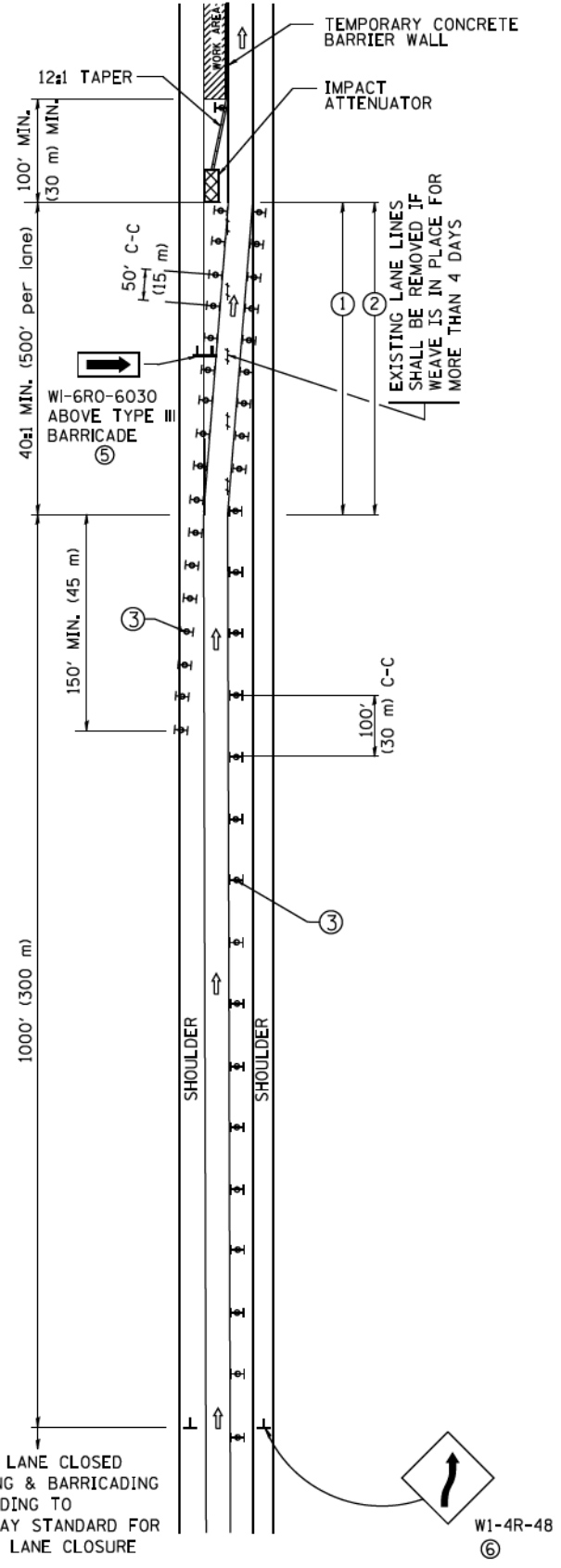
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS

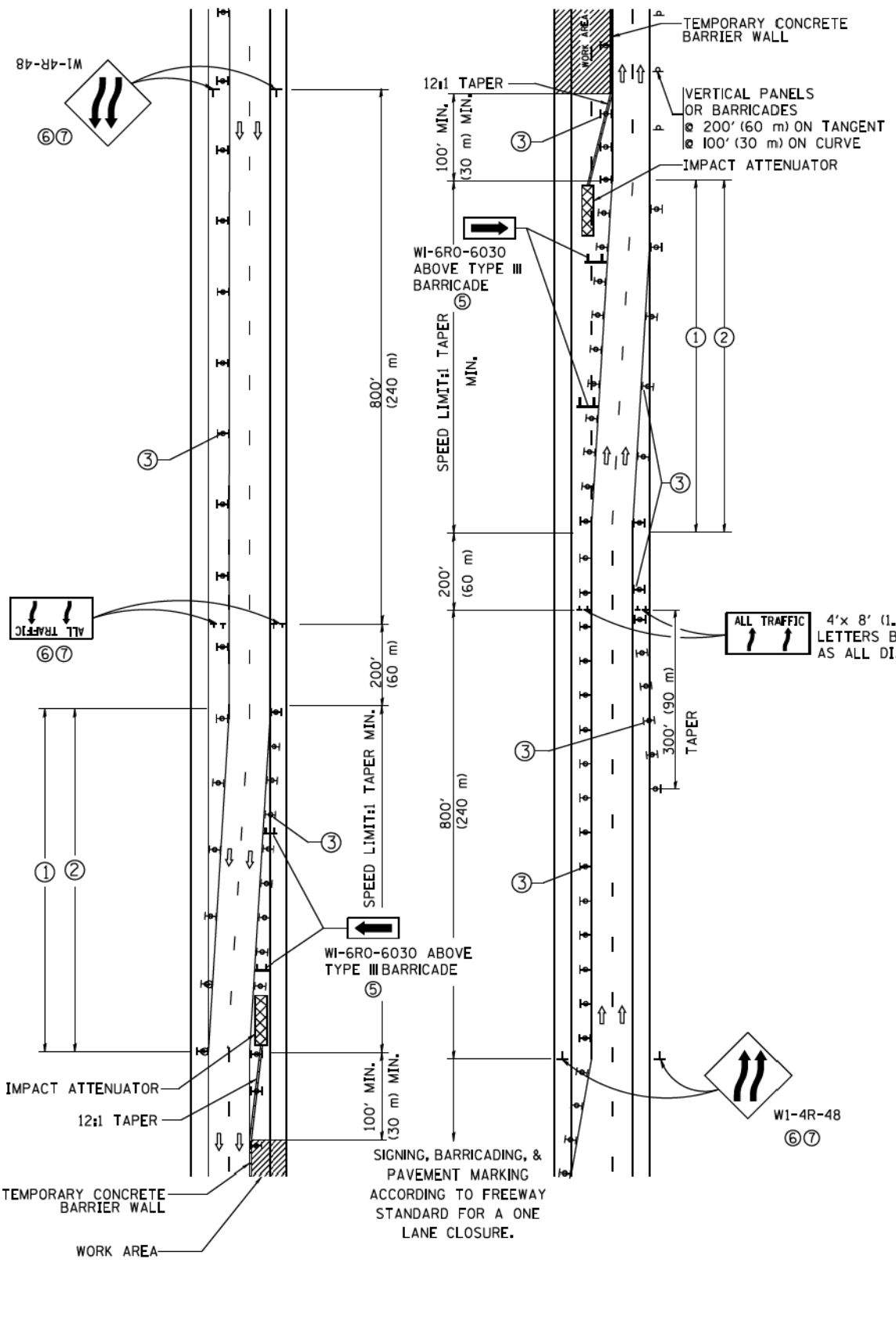
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1138
TC-08			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

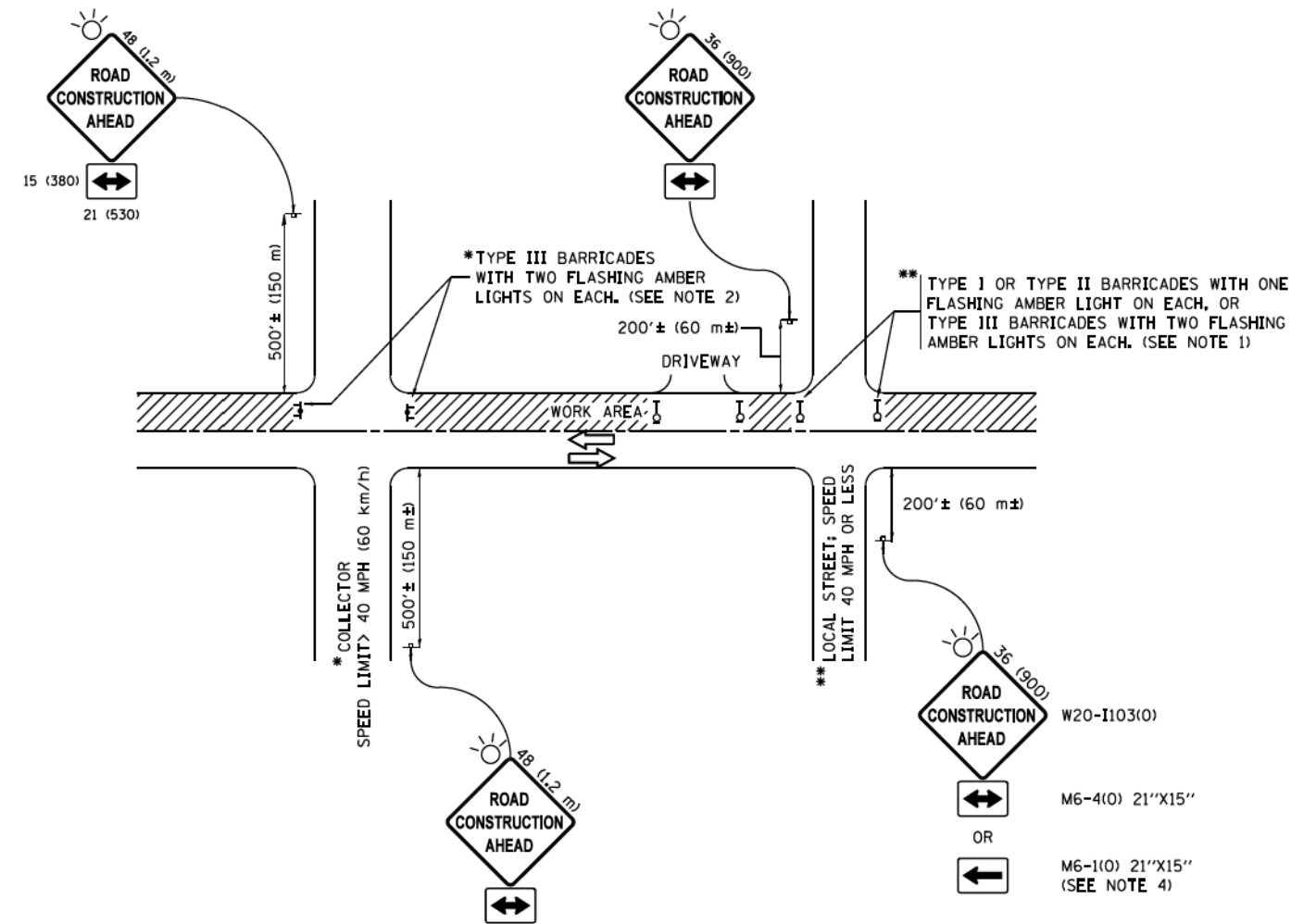
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE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

### SYMBOLS

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\p-work\pwork\dot\footemj\080315\1c09.sgn		DRAWN -	REVISED - SPB 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-013R&B-R	COOK	1972	1139	
PLOT SCALE = 5/8" = 1'		CHECKED -	REVISED - SPB 12-09						TC-09				
PLOT DATE = 7/1/2013		DATE - 02-87	REVISED - MD 06-13						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**NOTES:**

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

All dimensions are in inches (millimeters) unless otherwise shown. • 90/94/290

FILE NAME •	USER NAME • Footemj	DESIGNED - LJA	REVISED - A. HOUSEN 10-15-96
p:\11884EBD\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Dist	ORIGIN	CADDData\CADsheets\tc10.dgn	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE • 50,000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

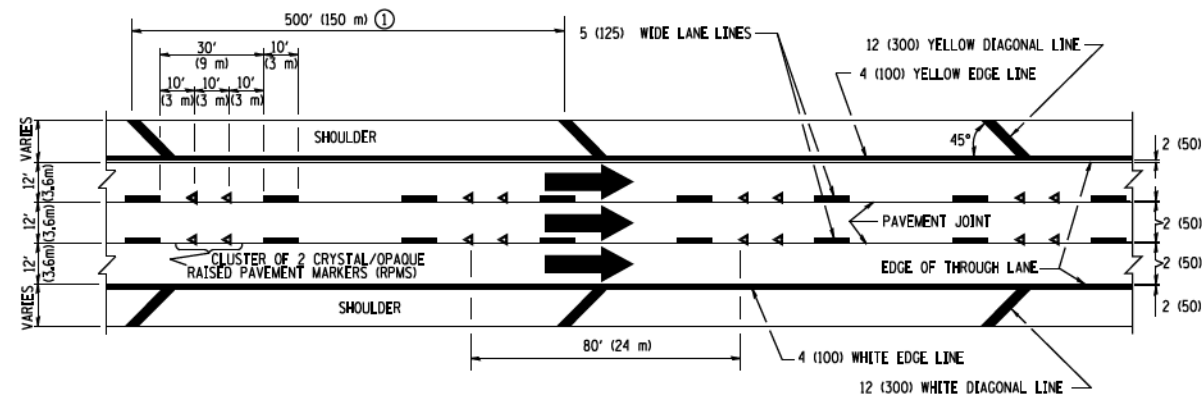
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

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

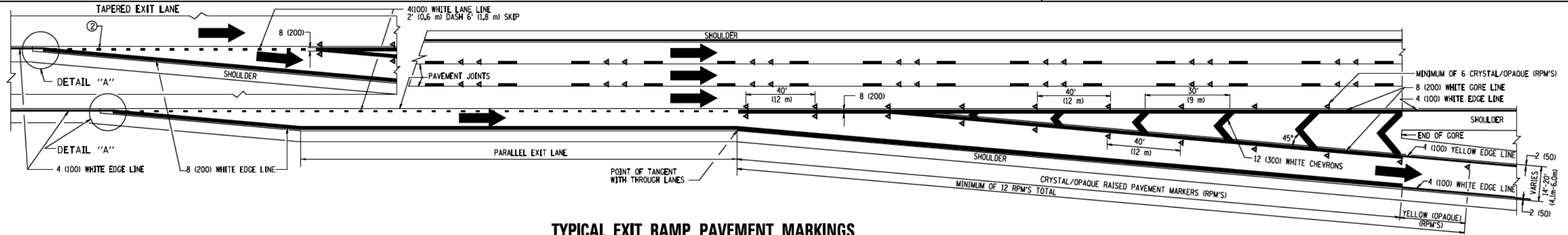




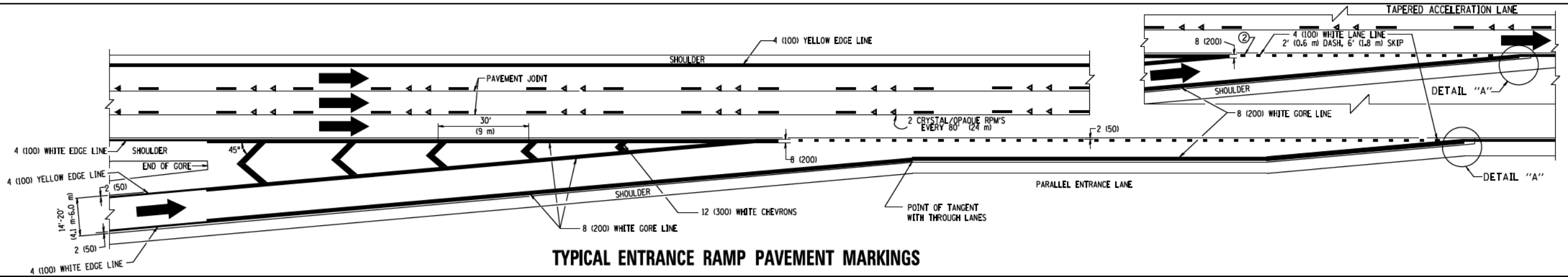
**TYPICAL EDGE LINES & LANE LINES**

**PAVEMENT MARKING MATERIALS**

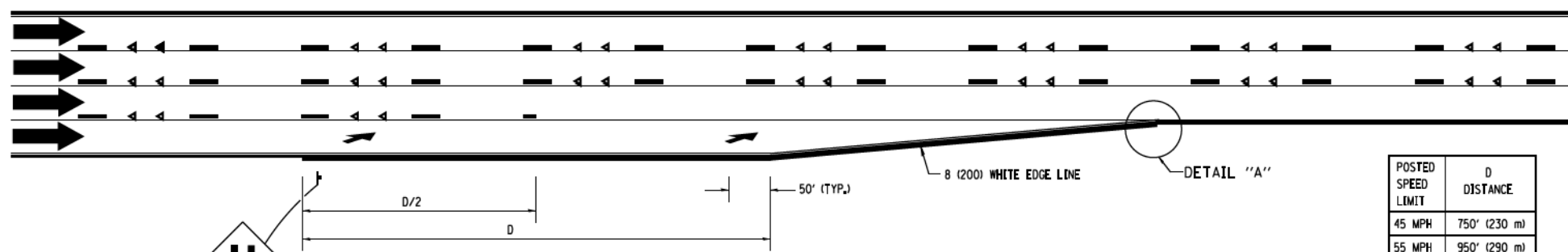
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



**TYPICAL EXIT RAMP PAVEMENT MARKINGS**



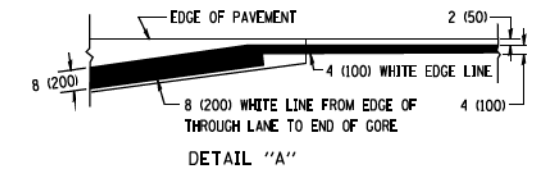
**TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS**



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

**NOTES:**

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



90/94/290

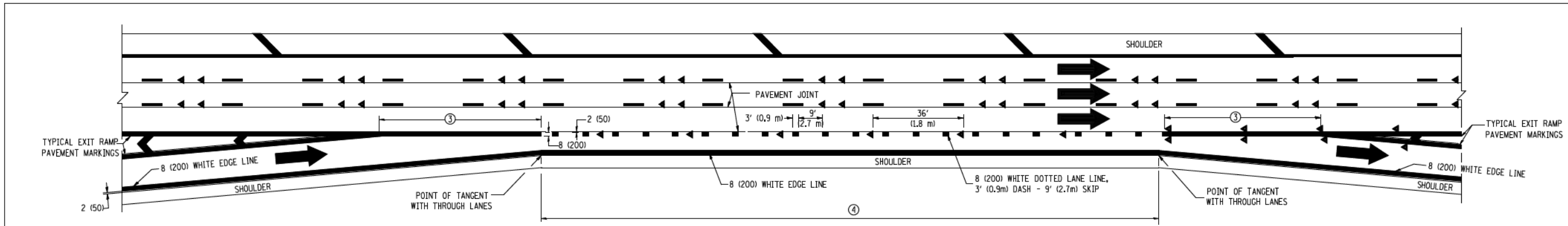
FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
cr:\p-work\pw\dot\footemj\d0108315\1c12.dgn		DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50:000' / 1"		CHECKED -	REVISED - S.P.B. 01-10
PLOT DATE = 7/8/2013		DATE - 01-90	REVISED - M.D. 05-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

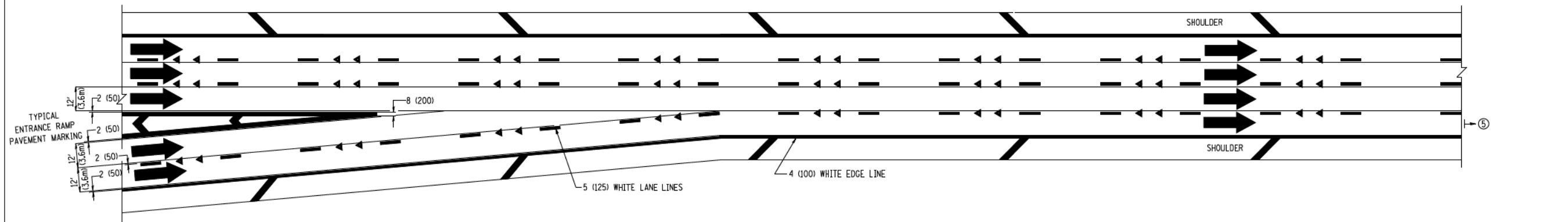
**MULTI-LANE FREEWAY  
PAVEMENT MARKING DETAILS**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

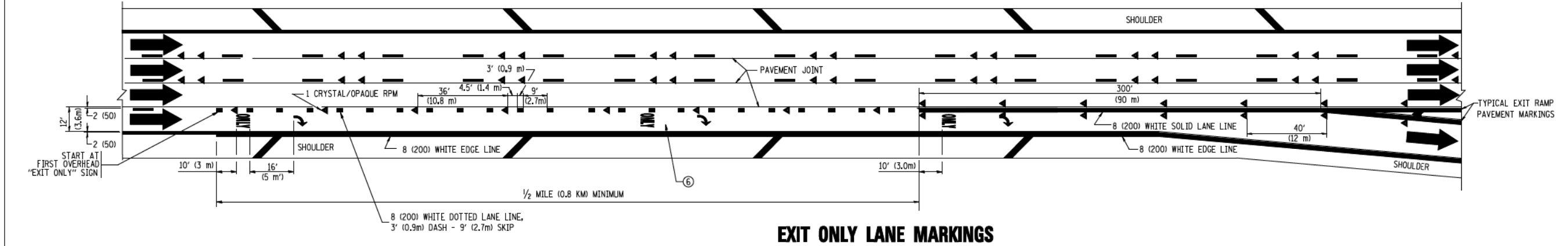
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-12		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



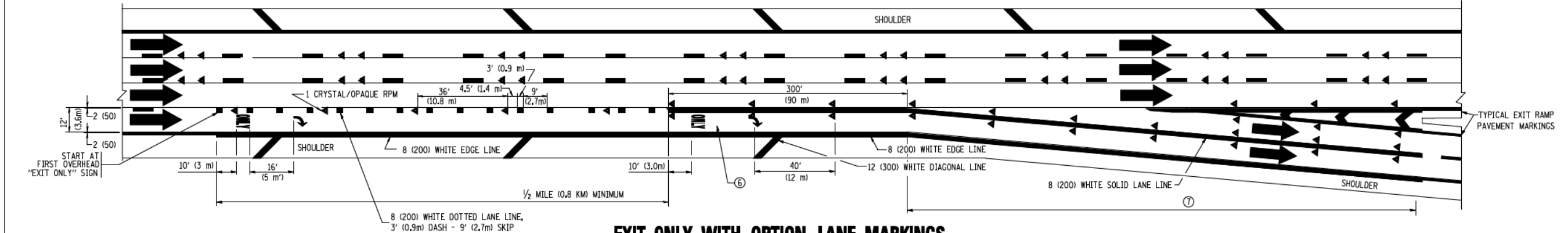
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

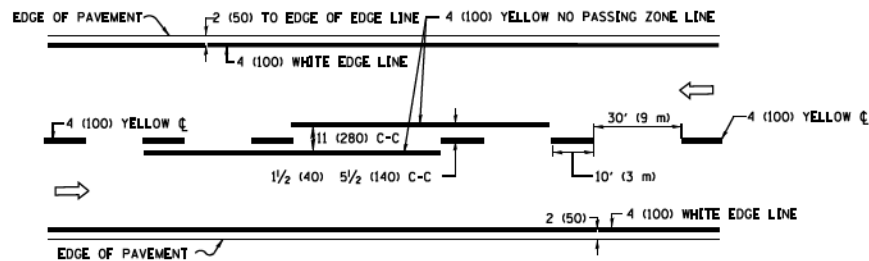
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY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

FILE NAME =	USER NAME = lwyse	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ca\p_w\work\1007\LEYSAN\0108315\12.dgn		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50:000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

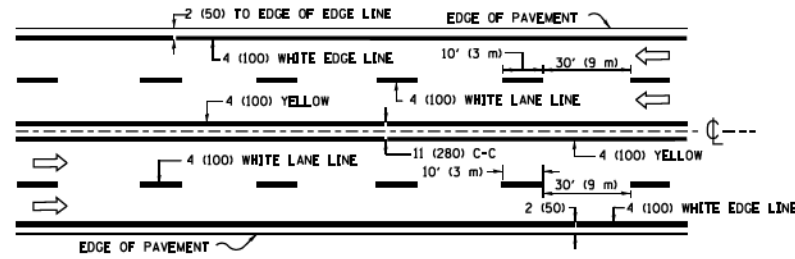
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

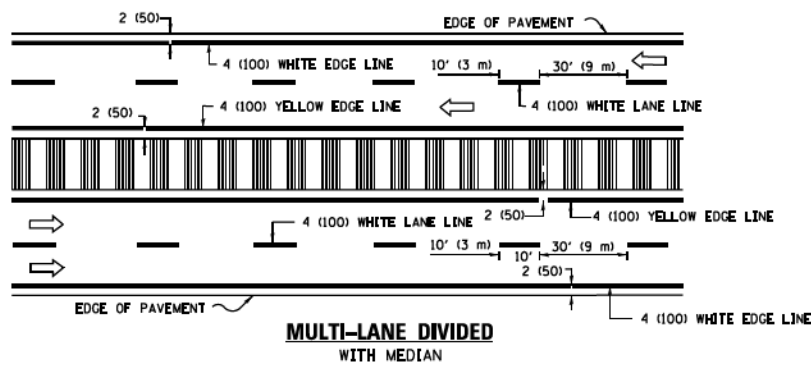
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•	2014-013R&B-R	COOK	1972	1142
<b>TC-12</b>		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

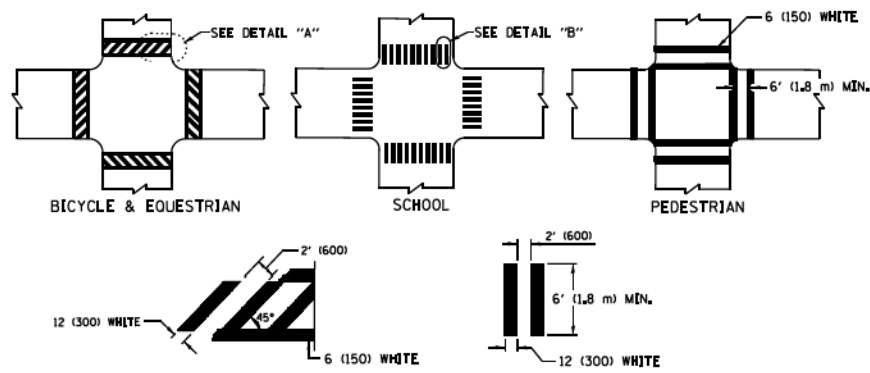


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

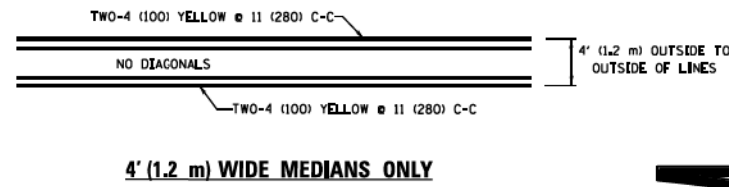


**DETAIL "A"**

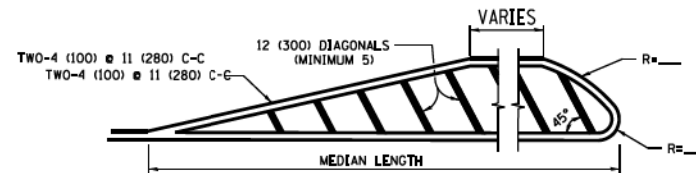
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

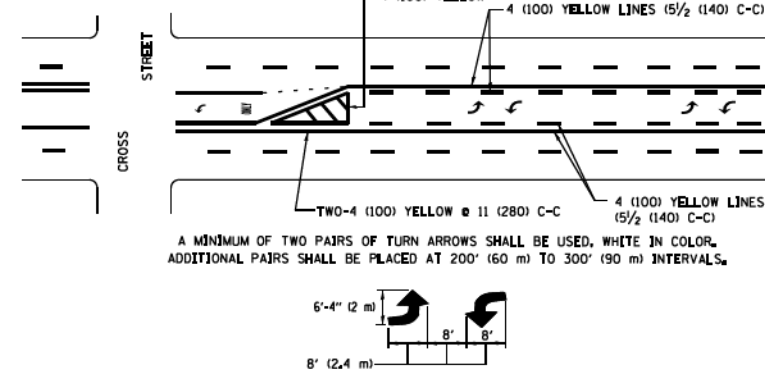


**4' (1.2 m) WIDE MEDIANS ONLY**



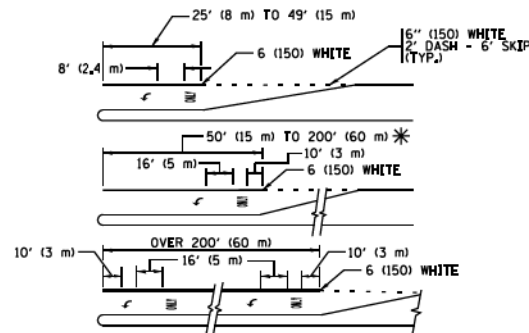
**MEDIANS OVER 4' (1.2 m) WIDE**

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



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

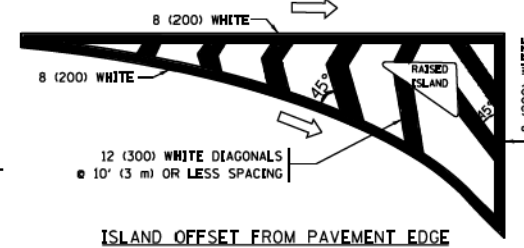
**TYPICAL PAINTED MEDIAN MARKING**



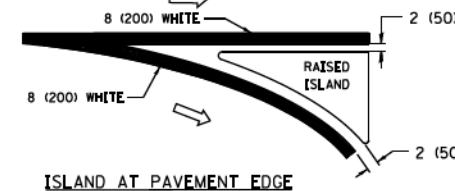
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) (AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>))  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

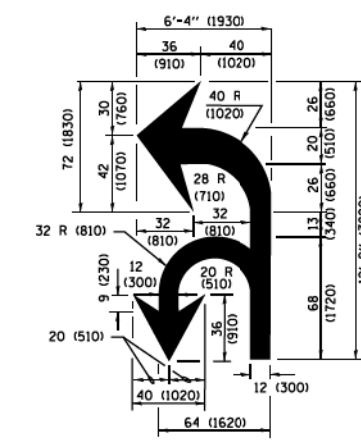


**ISLAND OFFSET FROM PAVEMENT EDGE**

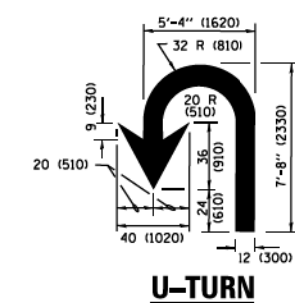


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

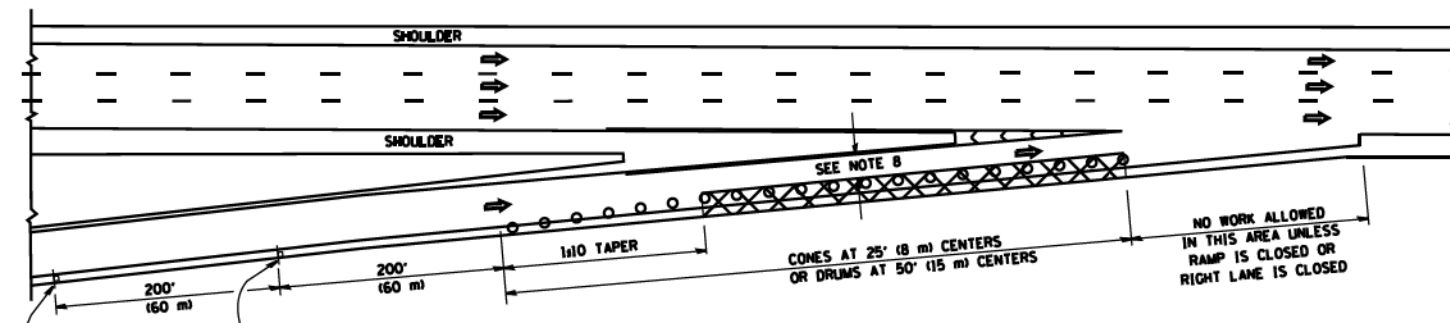
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" [5 6' (1.8 m) LETTERS]; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

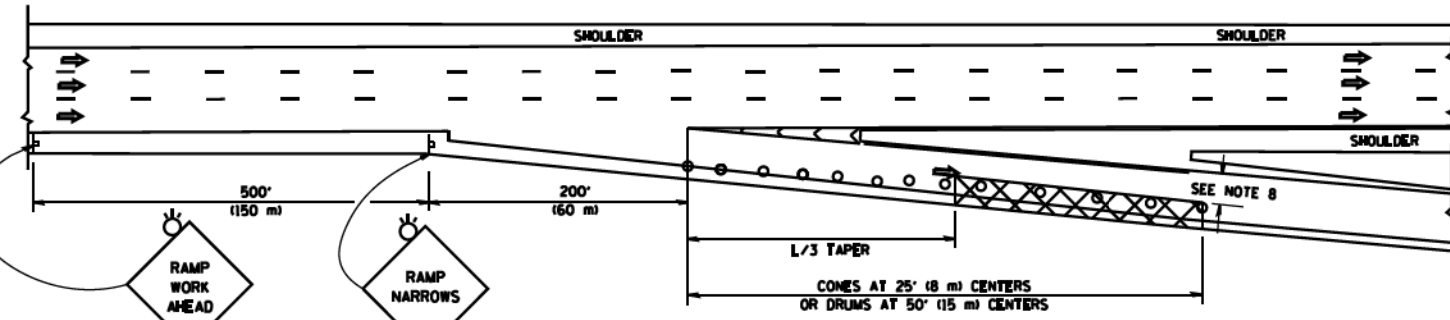
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					SCALE	SHEET					
W:\dstata\22x34\13.dgn	lejos	EVERS	C. JUCIUS 09-09-09		SCALE: NONE	SHEET 1		2014-013R&B-R	COOK	1972	1143
Default						OF 1 SHEETS	STA.	TC-13			
							TO STA.				

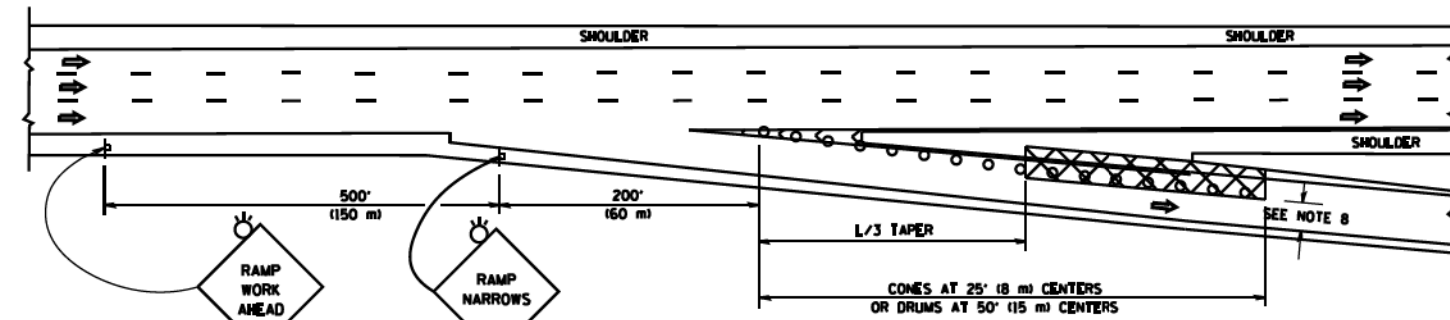
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

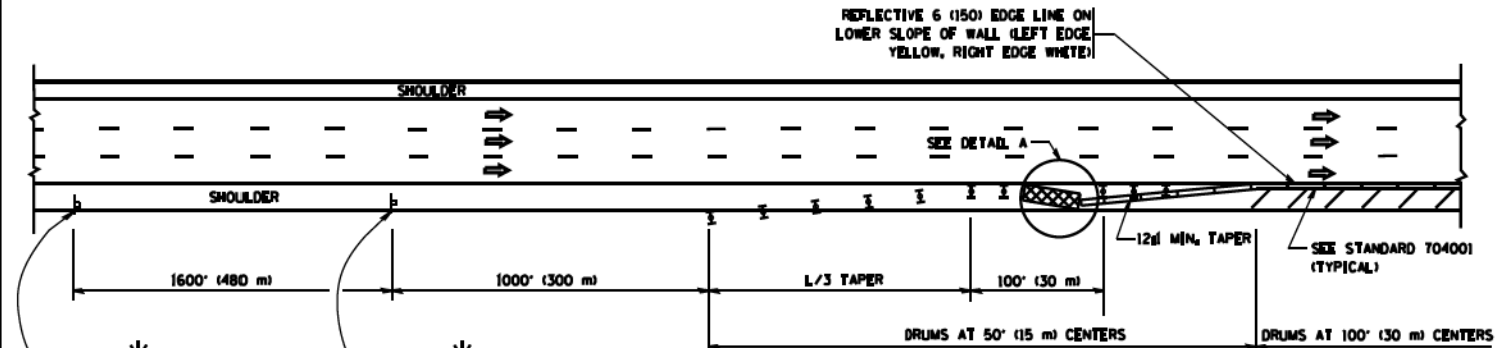
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES**

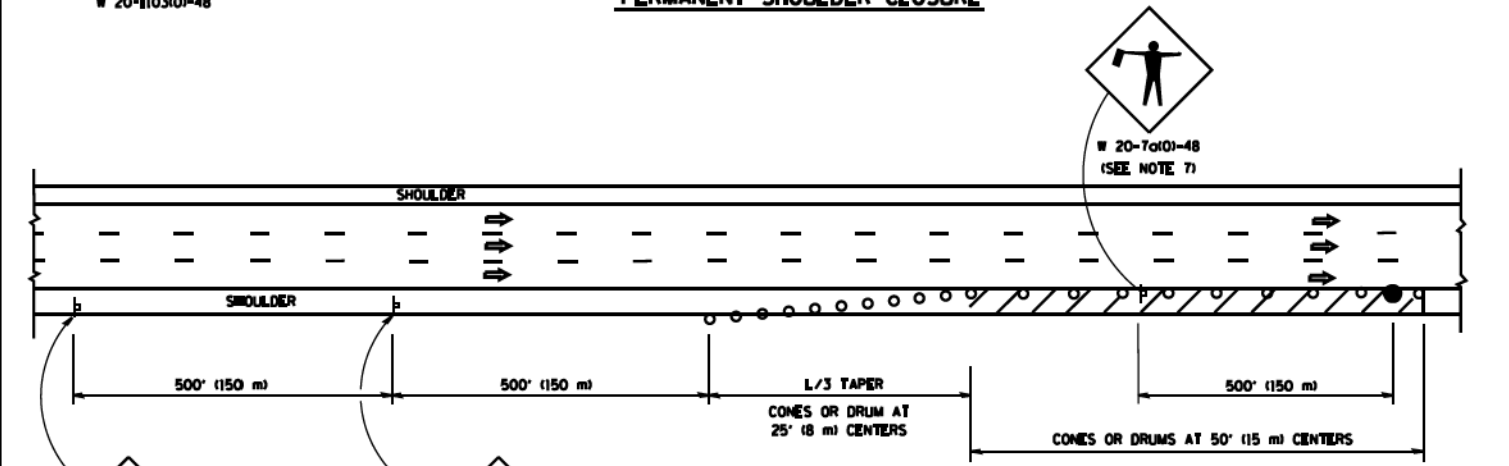
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH $L=0.65(WHS)$ $L=WS(S)$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

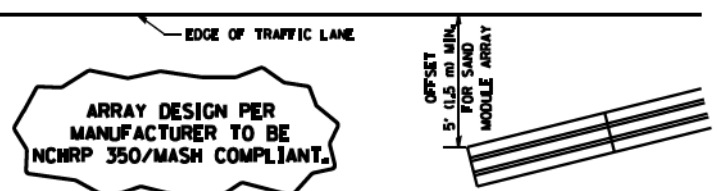
**SHOULDER CLOSURE DETAILS**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**



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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP 350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCRUSHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =  
ca\pa\_work\pvd\dot\10yso\08189315\1017.dwg

USER NAME = 10yso  
PLOT SCALE = 100,0000 1/1  
PLOT DATE = 4/17/2014

DESIGNED -  
DRAWN - D.W.S.  
CHECKED -  
DATE - 11-96

REVISED - J.A.F. 12-06  
REVISED - S.P.B. 01-07  
REVISED - S.P.B. 12-09  
REVISED - M.D. 06-13

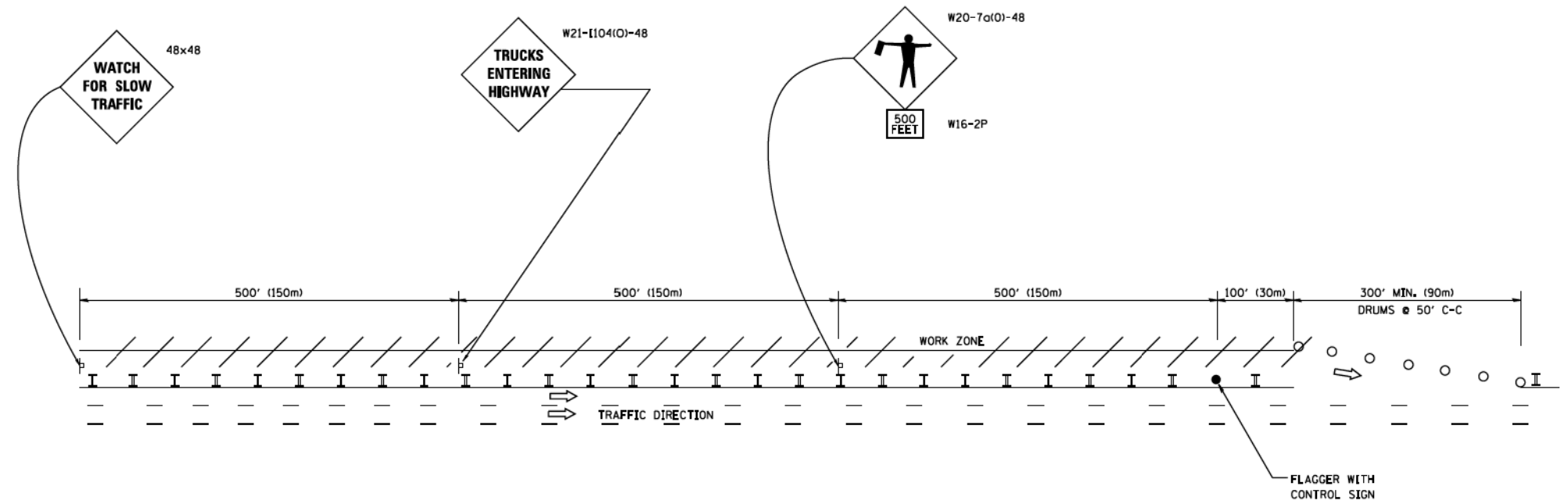
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES  
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

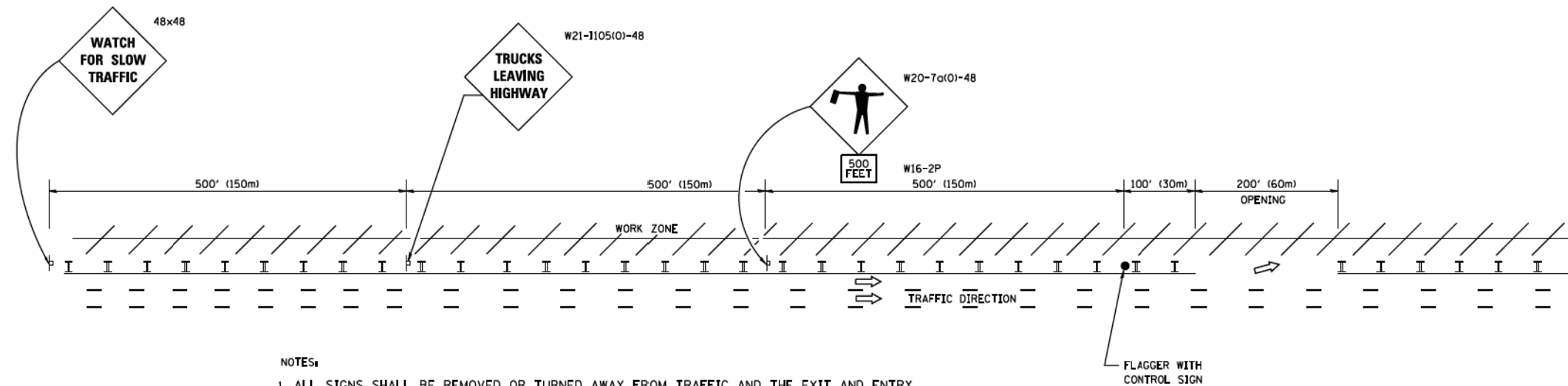
P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-013R&B-R	COOK	1972	1144
	TC-17			CONTRACT NO.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

## WORK ZONE EXIT OPENING



## WORK ZONE ENTRY OPENING



### NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN • 90/94/290

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06
cr\p-work\pw\dot\footemj\d0180315\tc18.dgn		DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50:000 ' / in.		CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 7/8/2013		DATE -	REVISED - M.D. 06-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FREeway/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS	
AT WORK ZONE OPENINGS ON FREeway/EXPRESSWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1145
TC-18		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

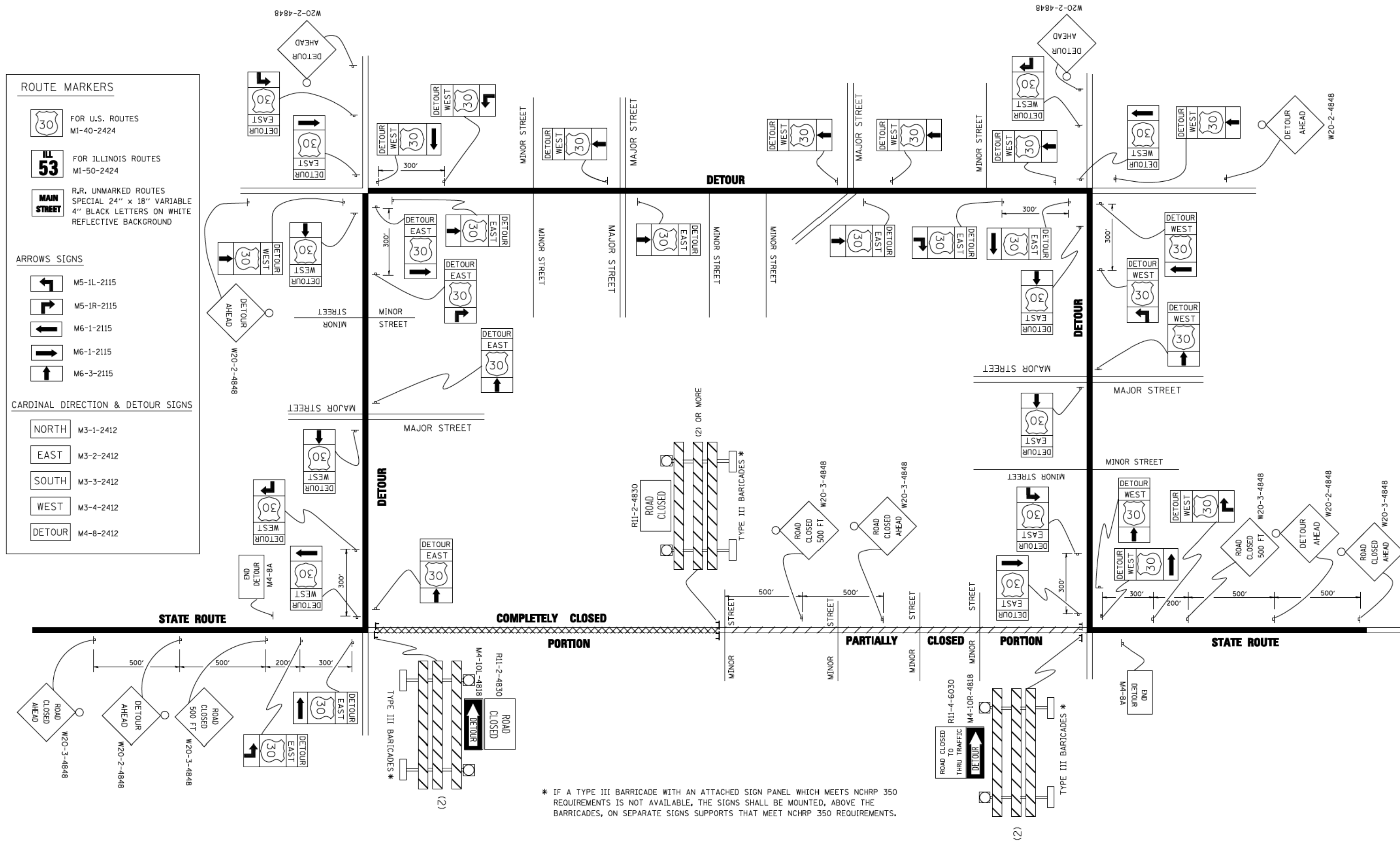
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



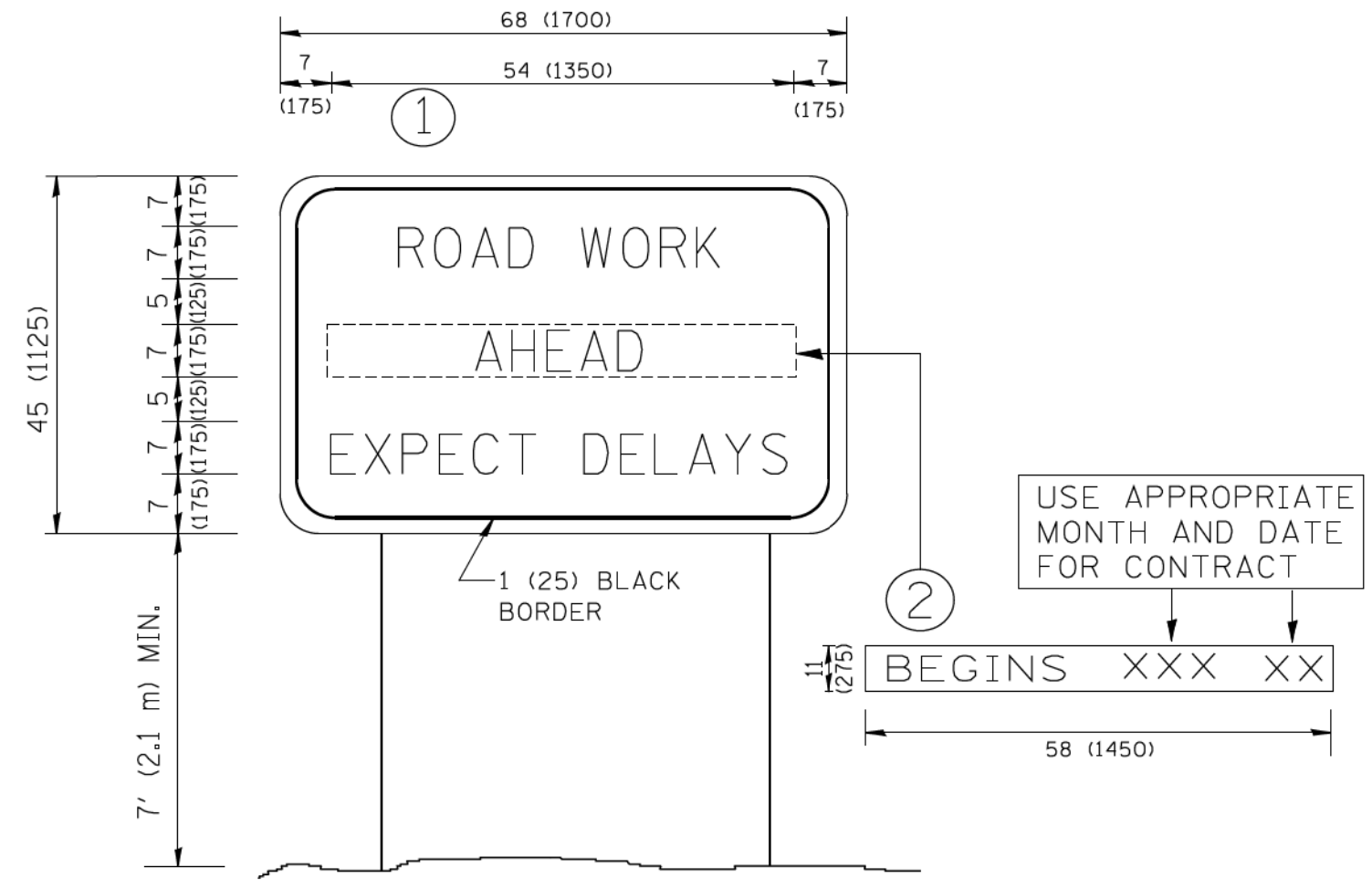
\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ca\p_work\p\1007\DRIVAKOSGN\d0108315\2L.dgn		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1146
<b>TC-21</b>		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



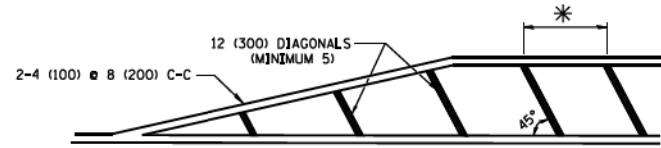
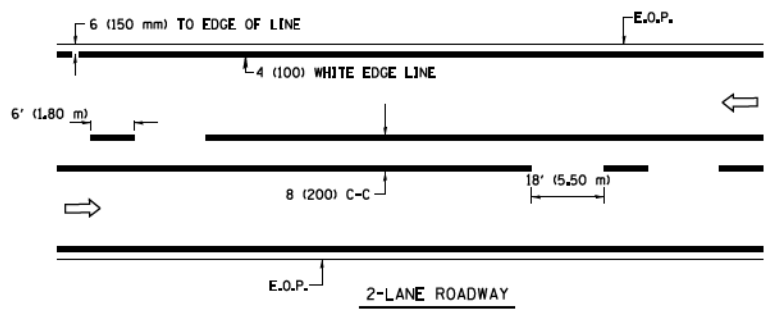
**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

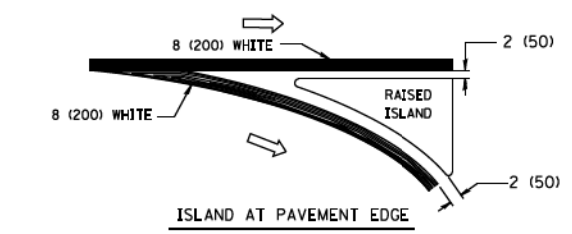
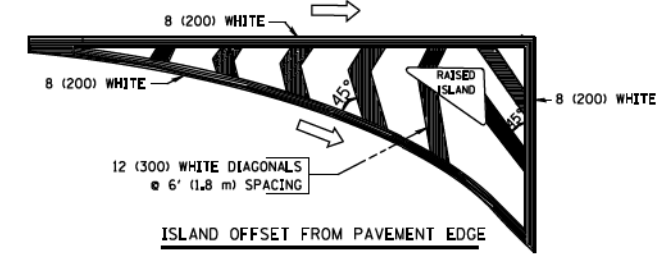
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

• 90/94/290

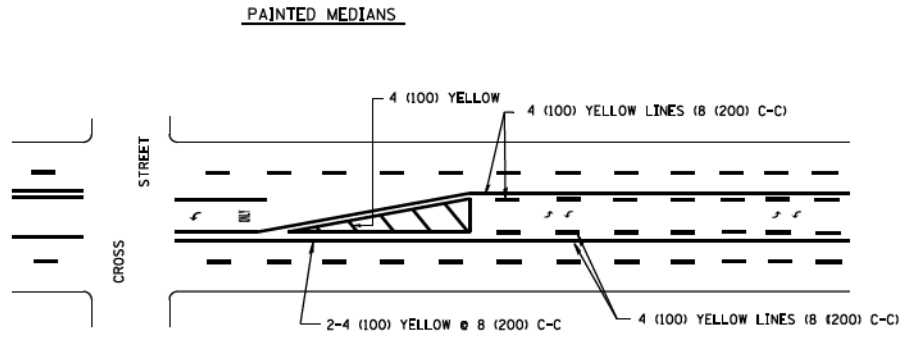
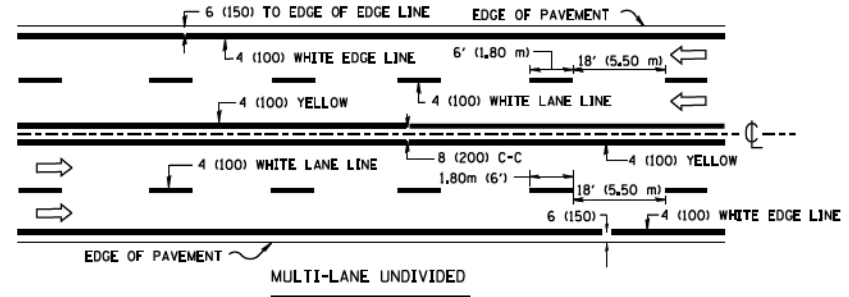
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	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-013R&B-R	COOK	1972	1147
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		TC-22		CONTRACT NO.					
		DATE -	REVISED - C. JUCIUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



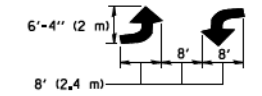
\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
\* DIAGONAL LINE SPACING: 20' (6.1 m) C-C



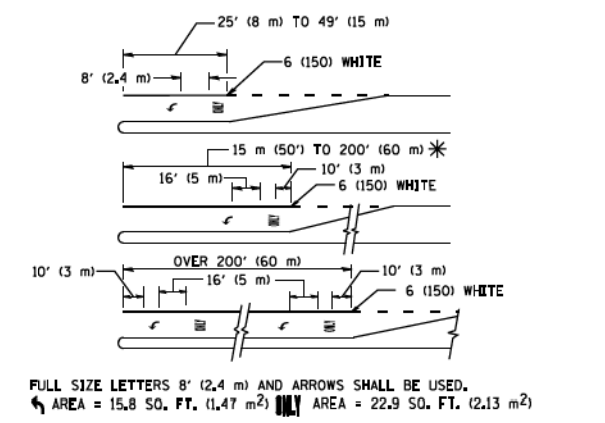
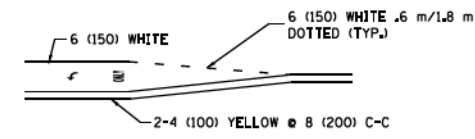
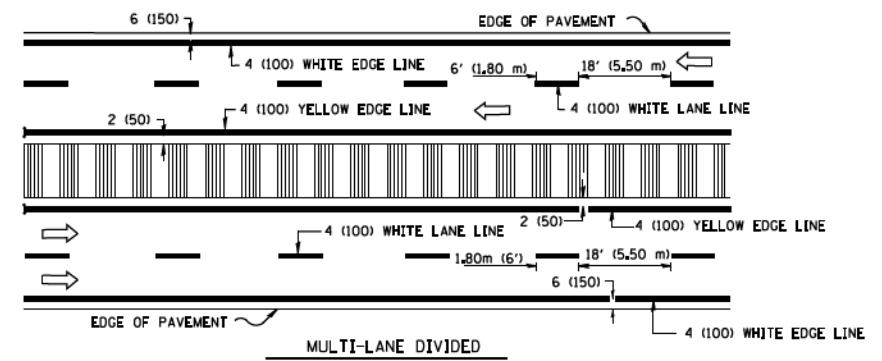
TYPICAL ISLAND MARKING



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



TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN))	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS; 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

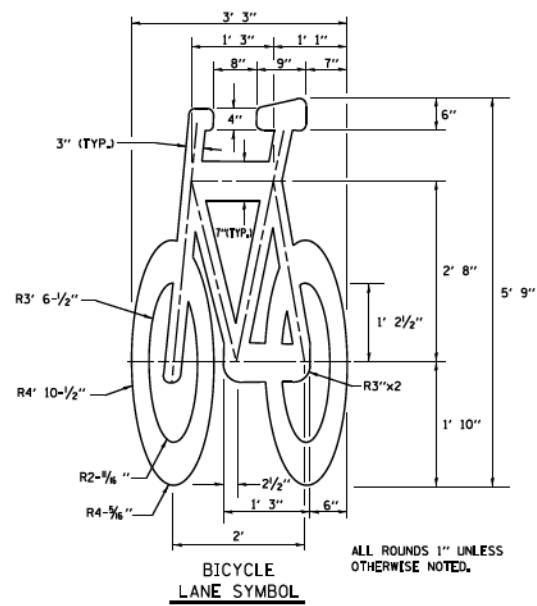
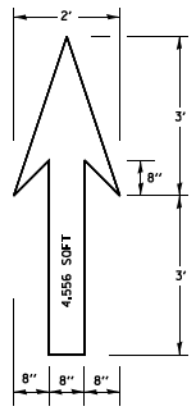
90/94/290

FILE NAME =	USER NAME = drivekosgn	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
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PLOT SCALE = 50:000 ' / in.		CHECKED -	REVISED -
PLOT DATE = 3/1/2012		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		•	2014-013R&B-R	COOK	1972	1148
SCALE: NONE		SHEET NO. 1 OF 3 SHEETS		STA. TO STA.	CONTRACT NO.	
		TC-24		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

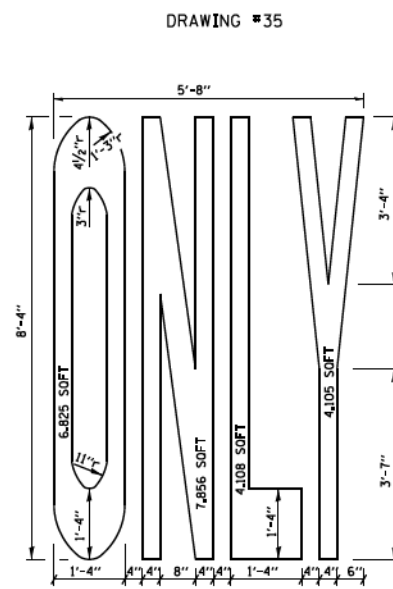
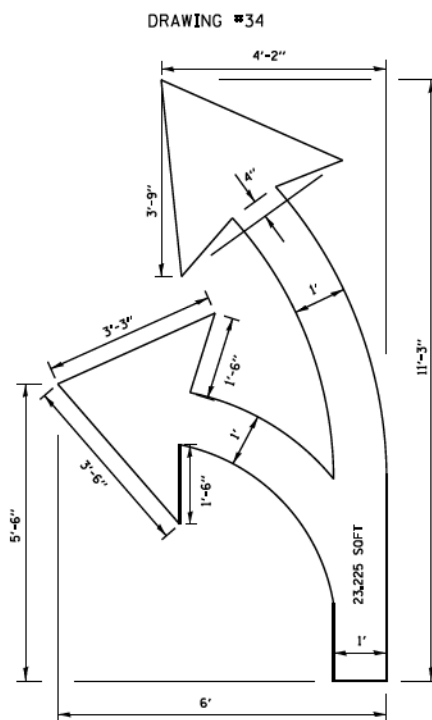
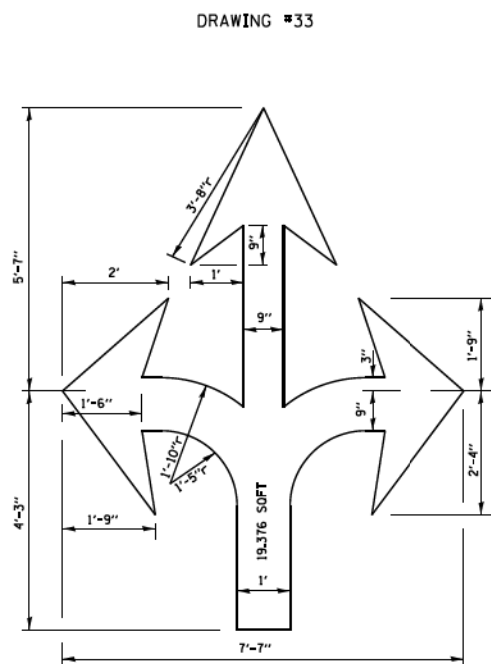
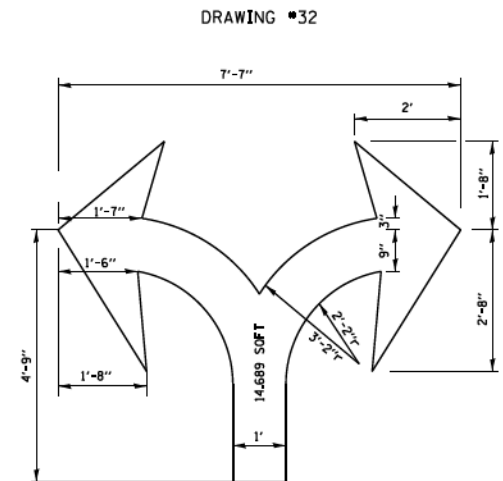
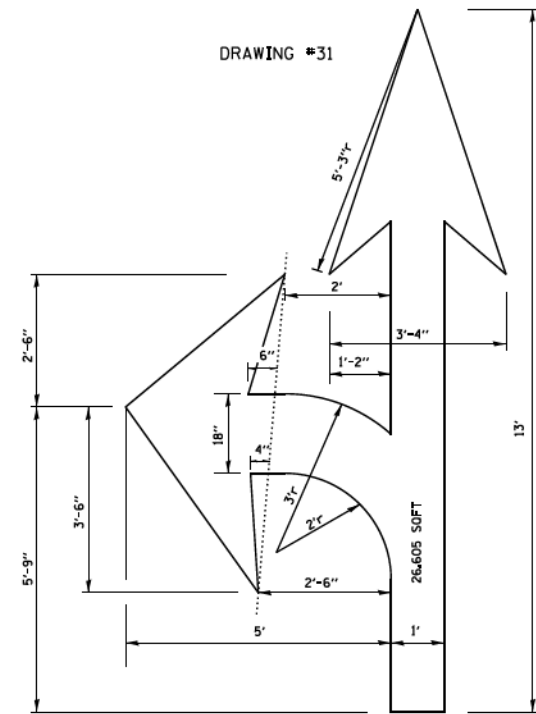
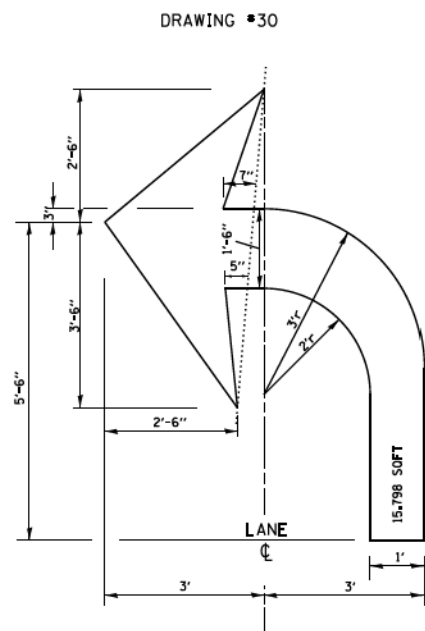
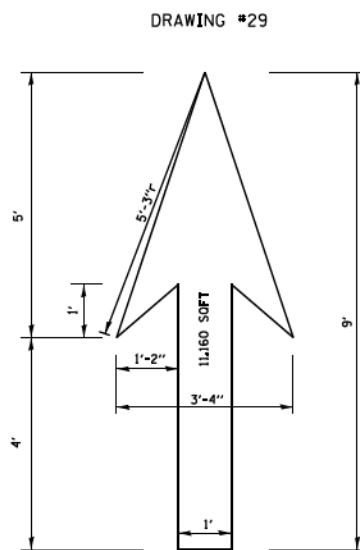




**NOTE:**

- 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS  
DRAWING #28



**NOTE:**

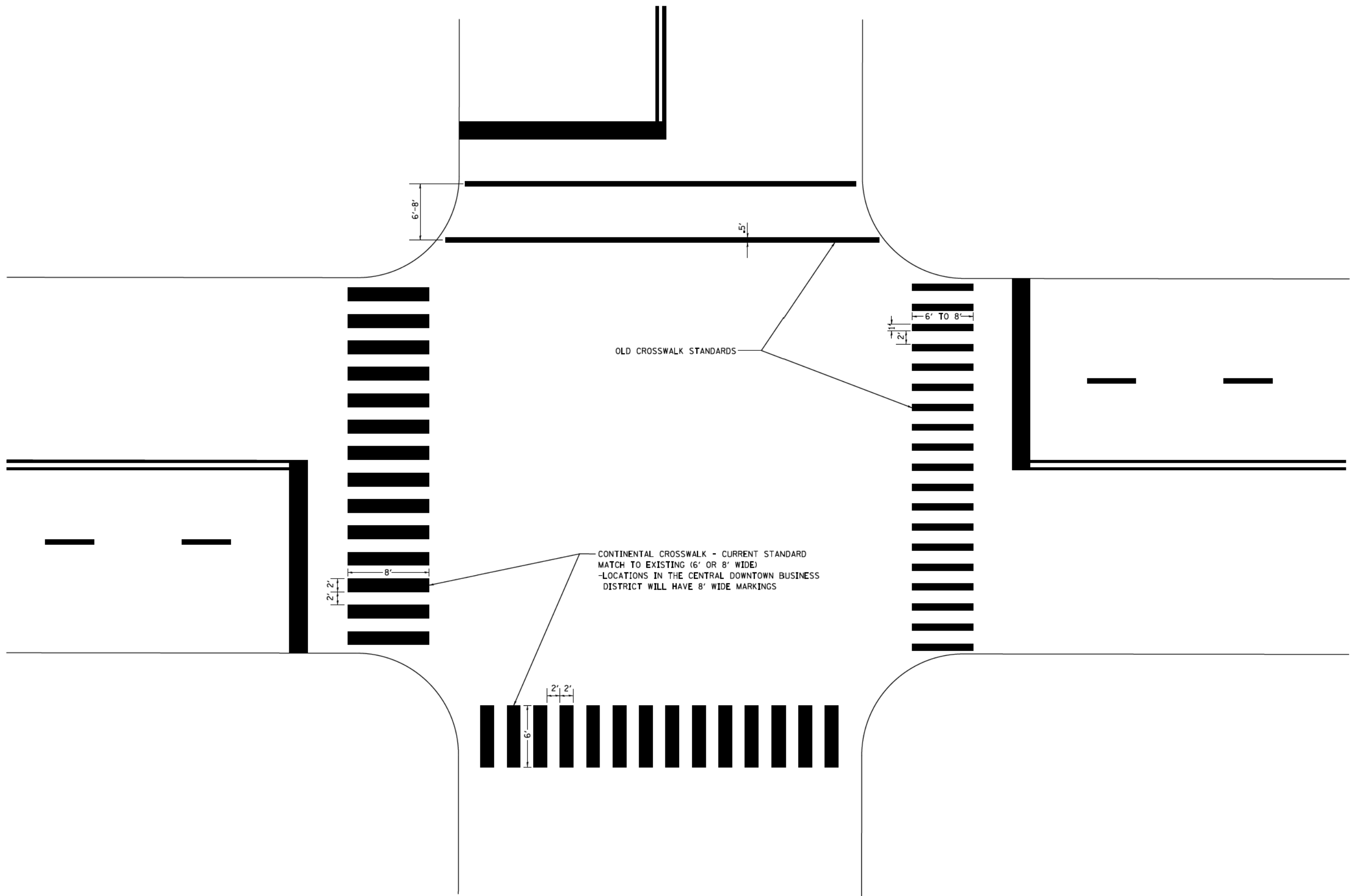
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

FILE NAME =	USER NAME = drivekosgn	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
cr:\pe-work\ps\dot\drivekosgn\d0108315\to24.dgn		DRAWN -	REVISED - K. ENG 02-28-12
PLOT SCALE = 50:000 ' / in.		CHECKED -	REVISED -
PLOT DATE = 3/29/2012		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1149
TC-24		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



• 90/94/290

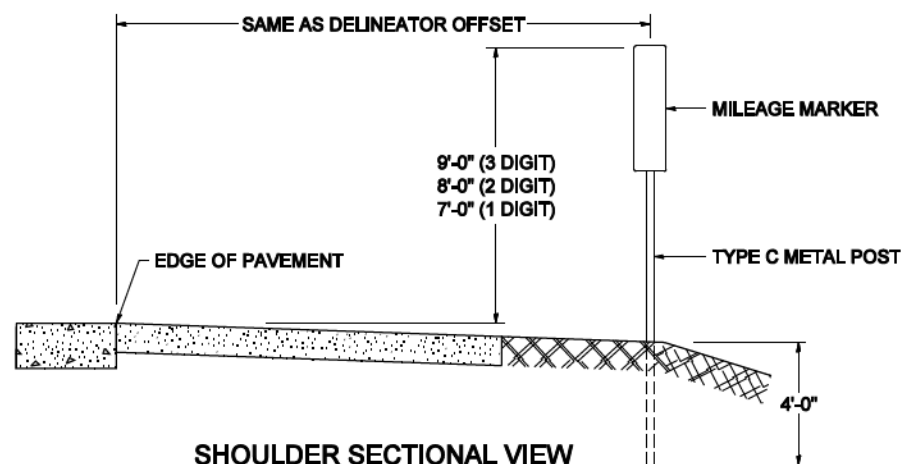
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PLOT SCALE = 50.000' / in.		CHECKED -	REVISED -
PLOT DATE = 3/29/2012		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

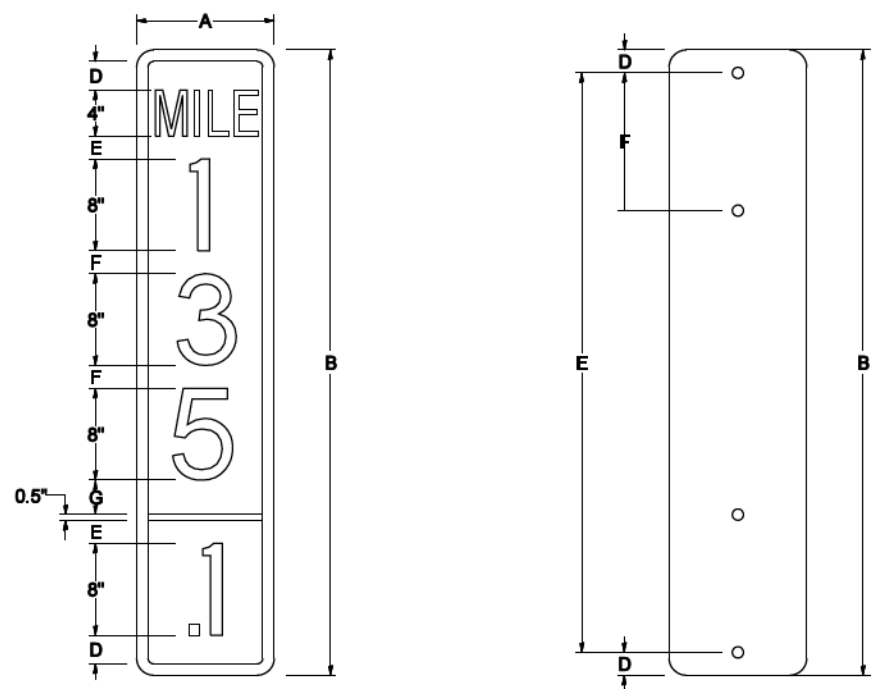
<b>CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-013R&B-R	COOK	1972	1150
TC-24		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**STANDARD DESIGN FOR MILE POST**



**SHOULDER SECTIONAL VIEW**

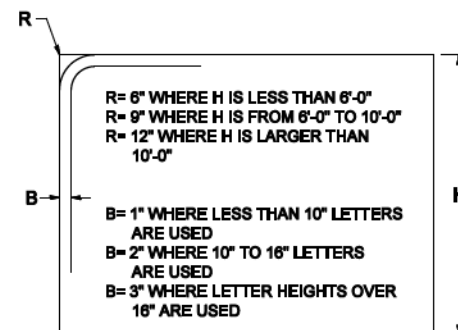


SIGN SIZE	DIMENSIONS							DIGIT
	A	B	C	D	E	F	G	
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

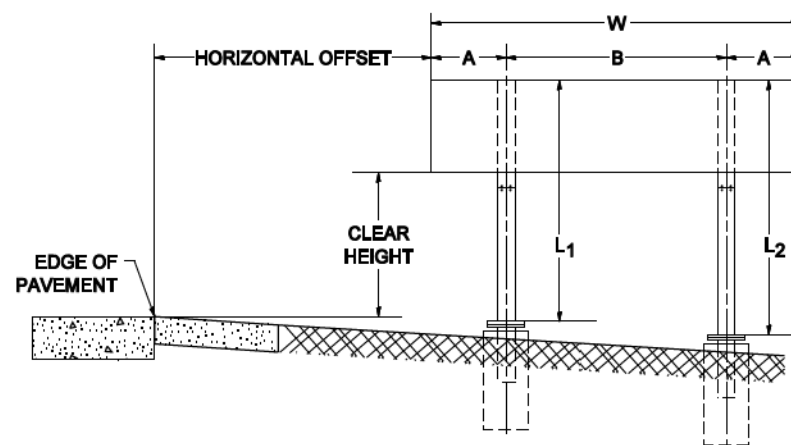
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BLANK STD.	
	LINES						
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

**BORDER AND RADIUS LAYOUT**



**MAJOR GUIDE SIGN LAYOUT**

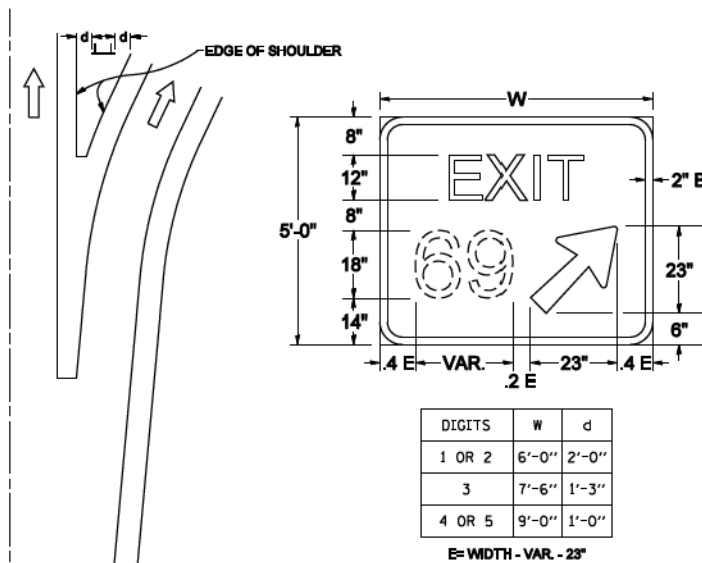


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

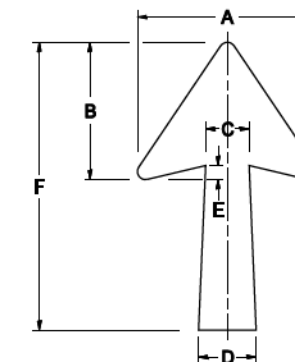
"L<sub>1</sub>" IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

**GORE SIGNS**

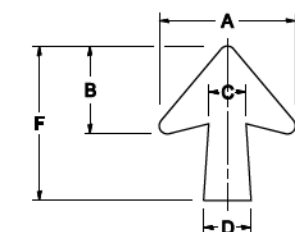


**STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS**



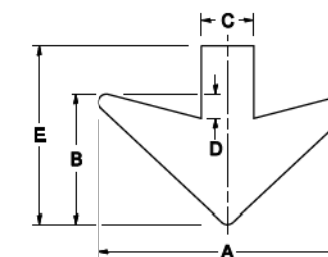
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 1/8	3 3/4	5	1 5/8	24 1/4	9/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 3/8	3 3/8		18 1/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS

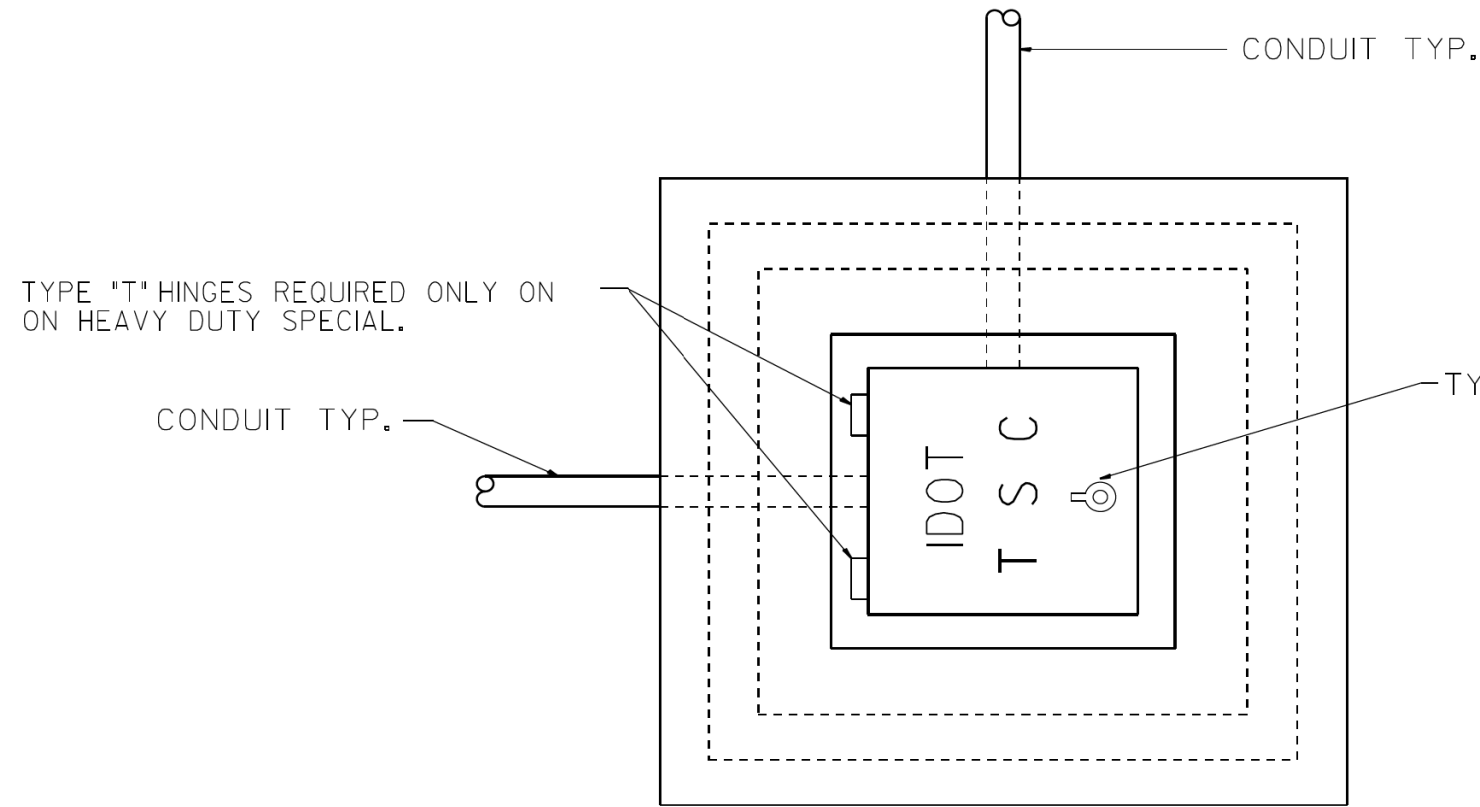


ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 3/8	3 3/8	4 1/2	1 5/8	17 1/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 5/8 x 8 3/8	8 3/8	5 3/8	2 3/8	2 3/8		9 5/8	1/2

**DOWN ARROWS**



ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1



PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

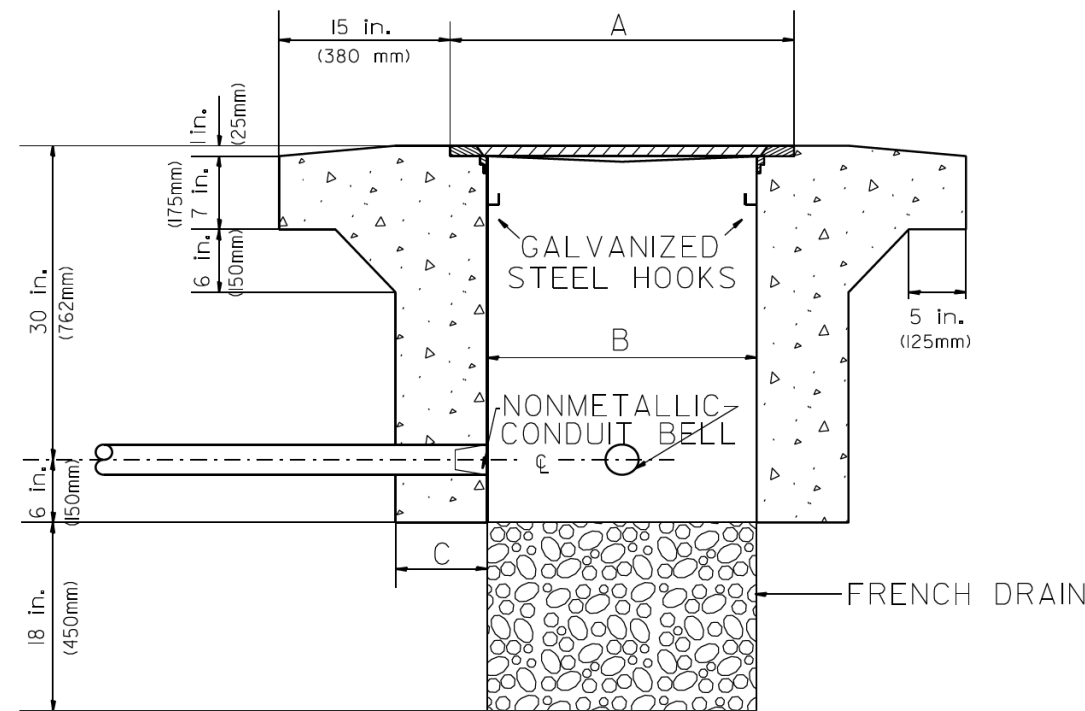
A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

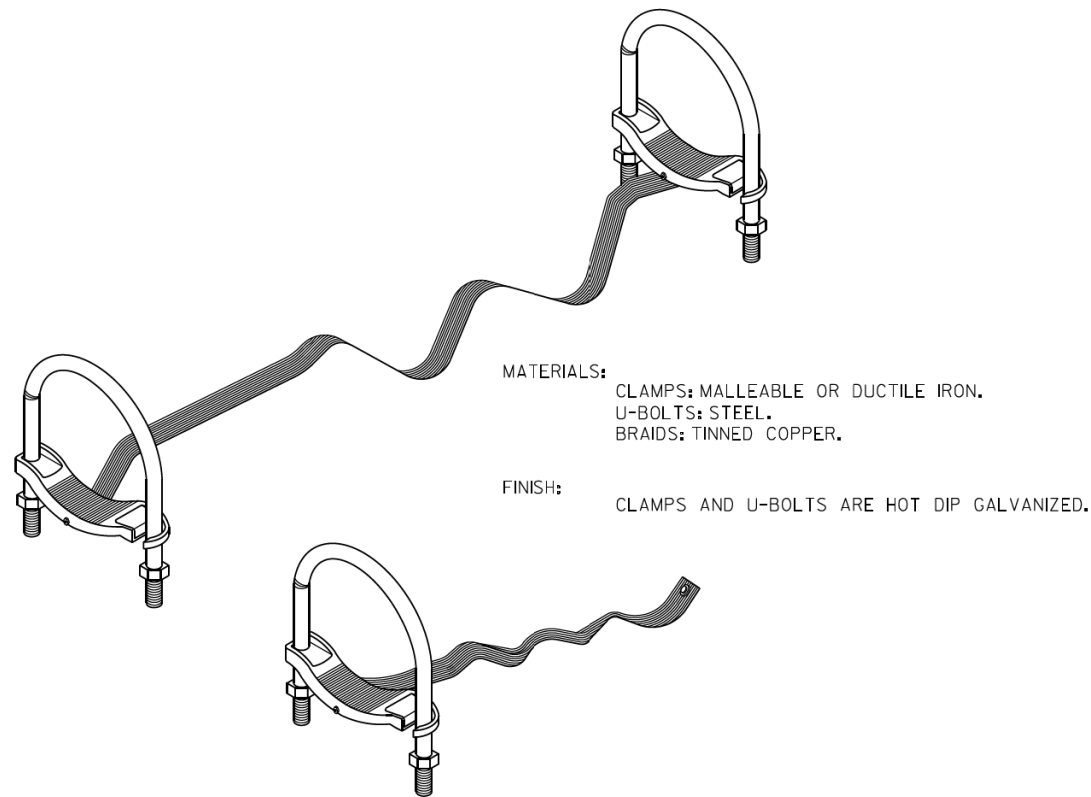
(FRAME AND COVER 405 LBS. (184 Kg. (405))



ELEVATION

PC CONCRETE - HEAVY DUTY HAND HOLE

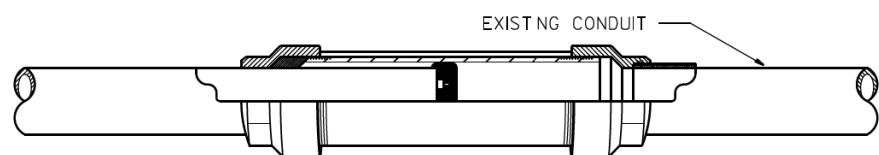
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		DATE - 09/11/96	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



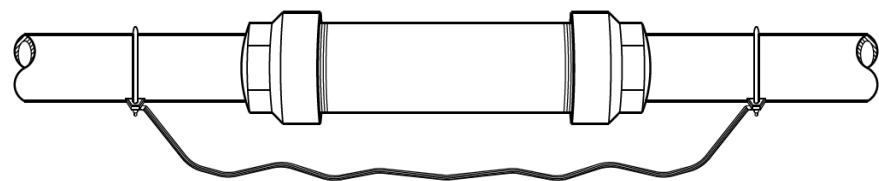
MATERIALS:  
 CLAMPS: MALLEABLE OR DUCTILE IRON.  
 U-BOLTS: STEEL.  
 BRAIDS: TINNED COPPER.

FINISH:  
 CLAMPS AND U-BOLTS ARE HOT DIP GALVANIZED.

## GROUNDING & BONDING JUMPERS FOR RIGID STEEL, IMC & EMT



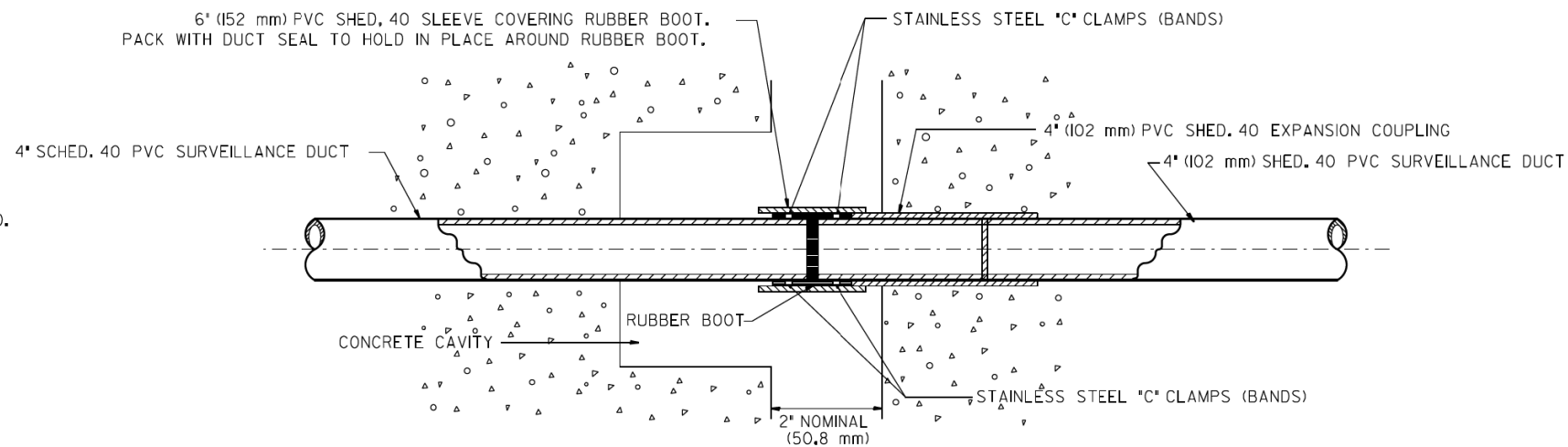
CROSS SECTION



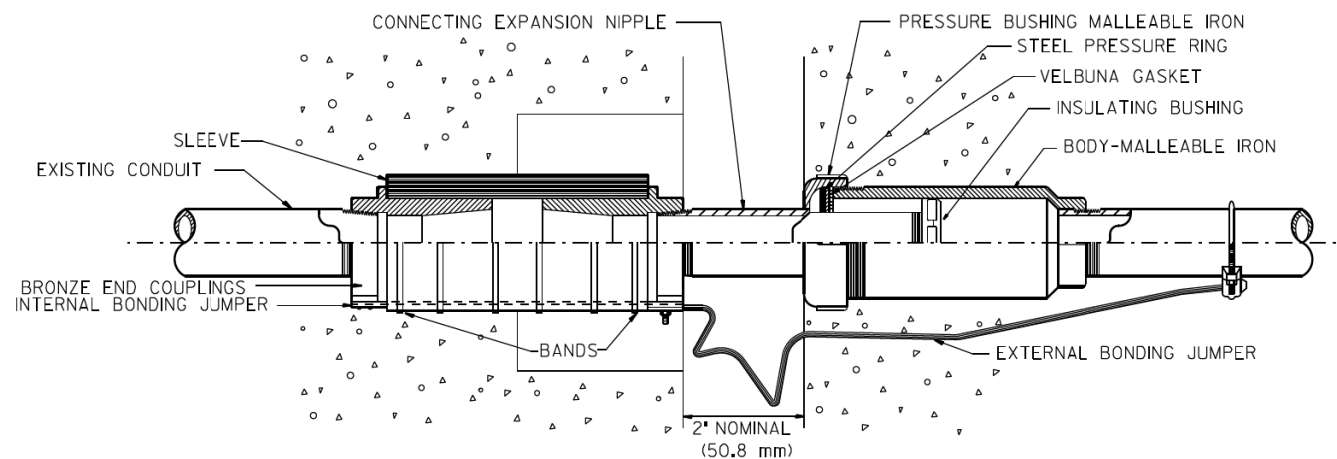
## BONDING EXPANSION FITTINGS

MATERIALS:  
 HEAD: MALLEABLE OR DUCTILE IRON.  
 SLEEVE: STEEL.  
 INSULATING BUSHING: PHENOLIC.

FINISH:  
 HOT DIP GALVANIZED.



## EXPANSION/DEFLECTION FITTING



## COMBINATION DEFLECTION/EXPANSION FITTINGS FOR RIGID METAL CONDUIT & IMC

FITTING CAN BE USED EXPOSED OR EMBEDDED IN CONCRETE.

MATERIALS:  
 SLEEVE: NEOPRENE.  
 END COUPLINGS: BRONZE.  
 BONDING JUMPER: TINNED COPPER BRAIDS.  
 BANDS: STAINLESS STEEL.

FINISH:  
 ALL MALLEABLE, DUCTILE IRON OR STEEL PARTS  
 ARE HOT DIP GALVANIZED.

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 03/99
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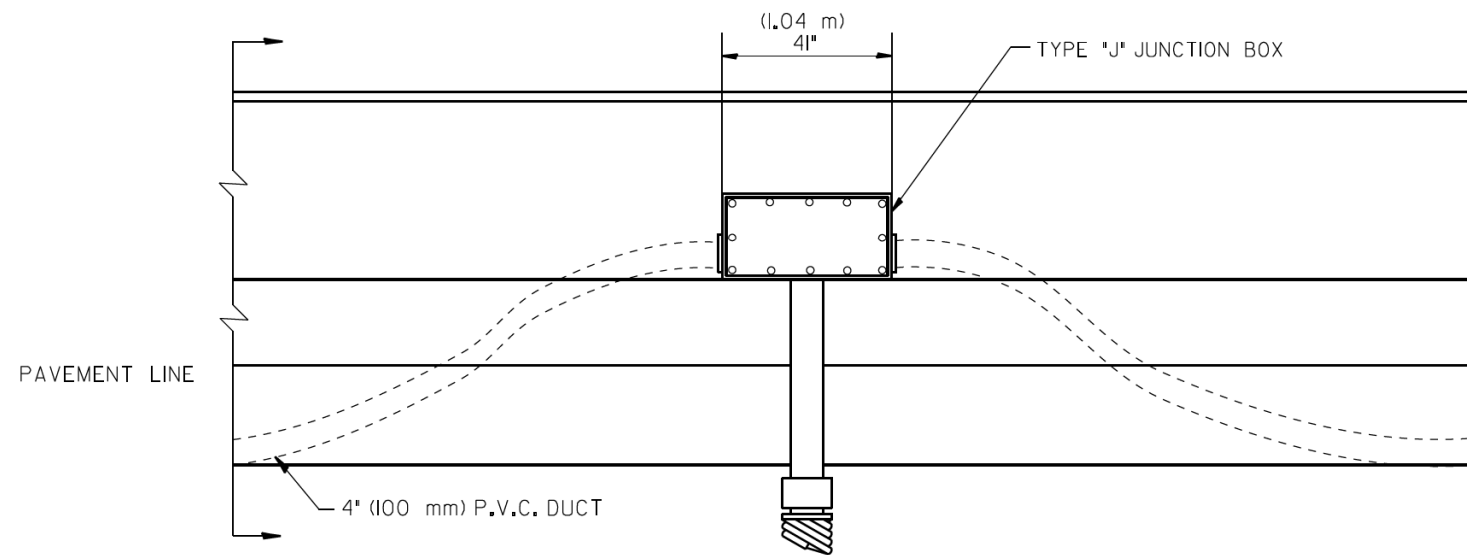
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER

EXPANSION FITTING  
 DETAIL SHEET

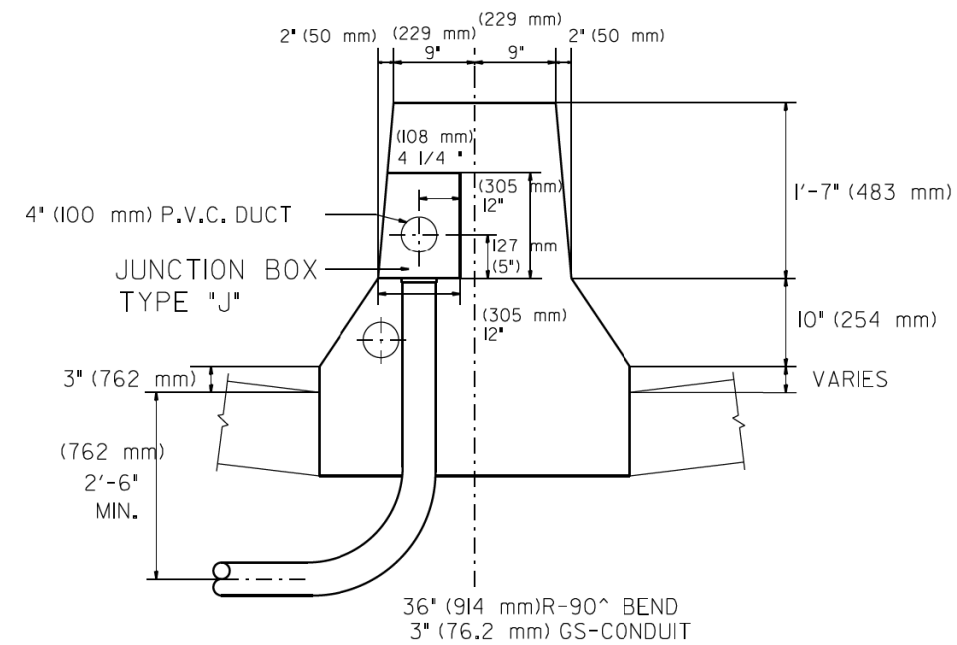
SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1972	1153
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

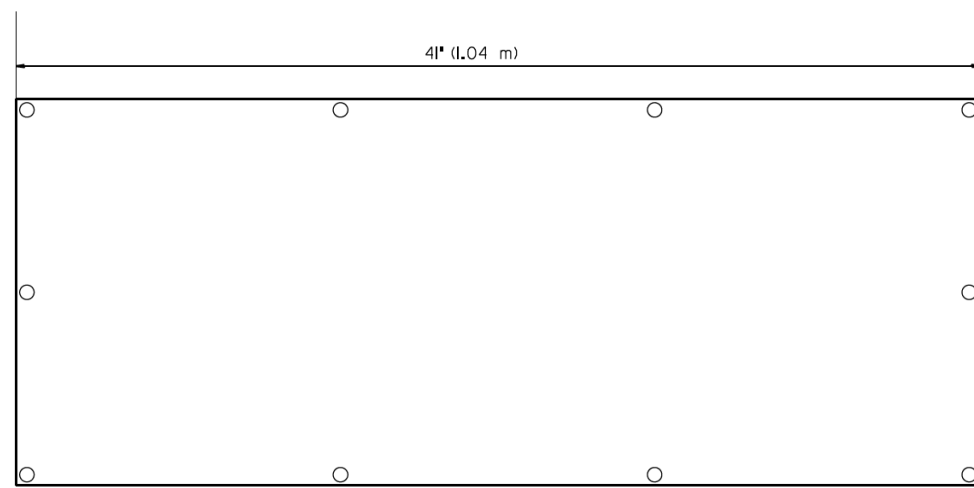
TRAFFIC SYSTEMS CENTER (TY-ITSC-400#18)



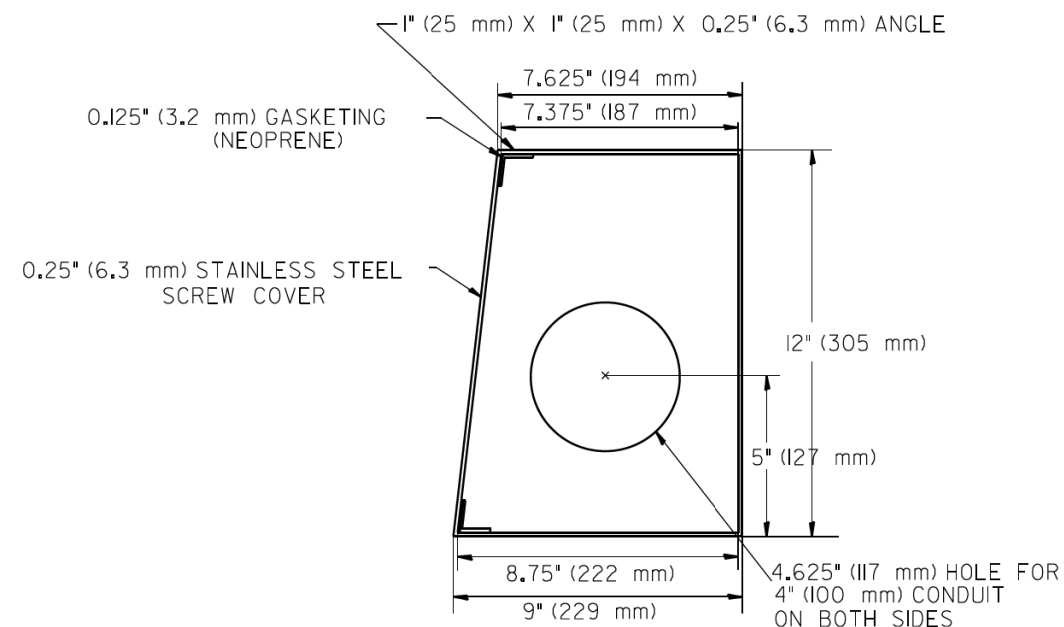
ELEVATION  
BARRIER WALL DUCT DETAIL



DOUBLE FACED BARRIER WALL



FRONT VIEW

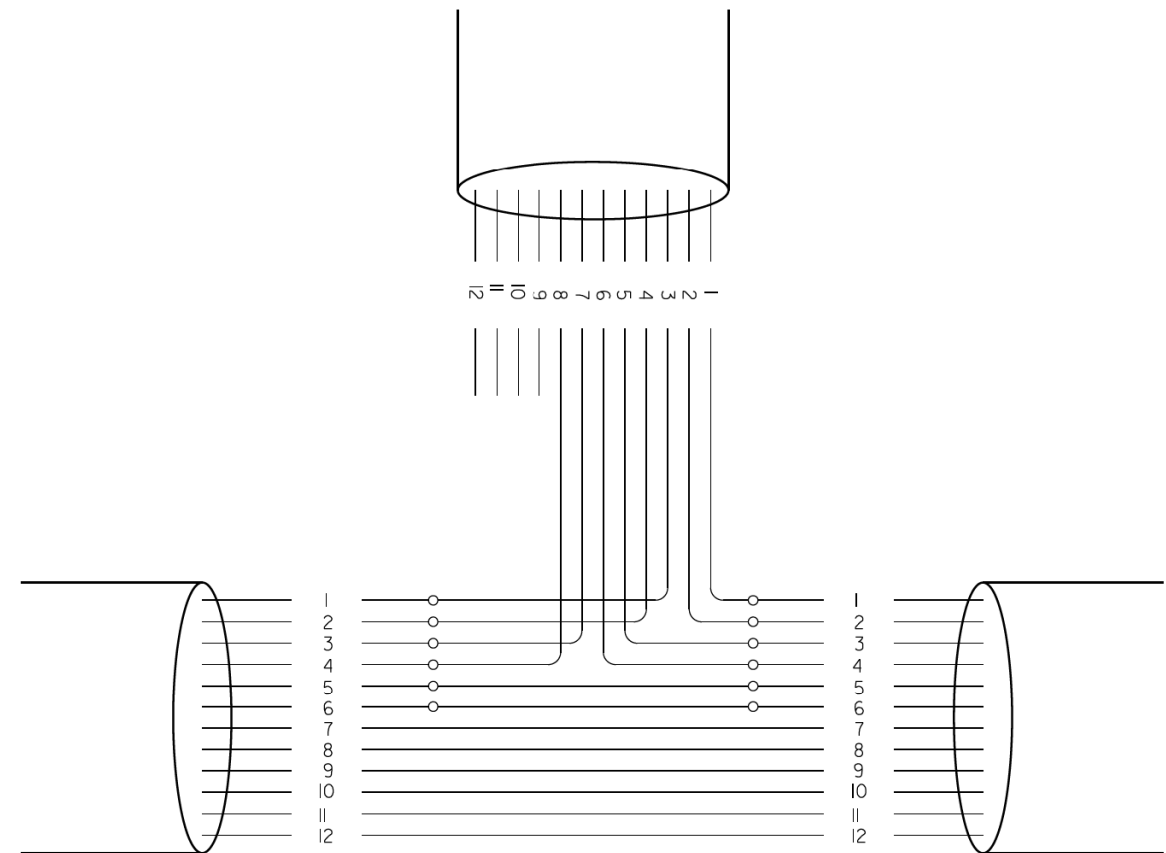
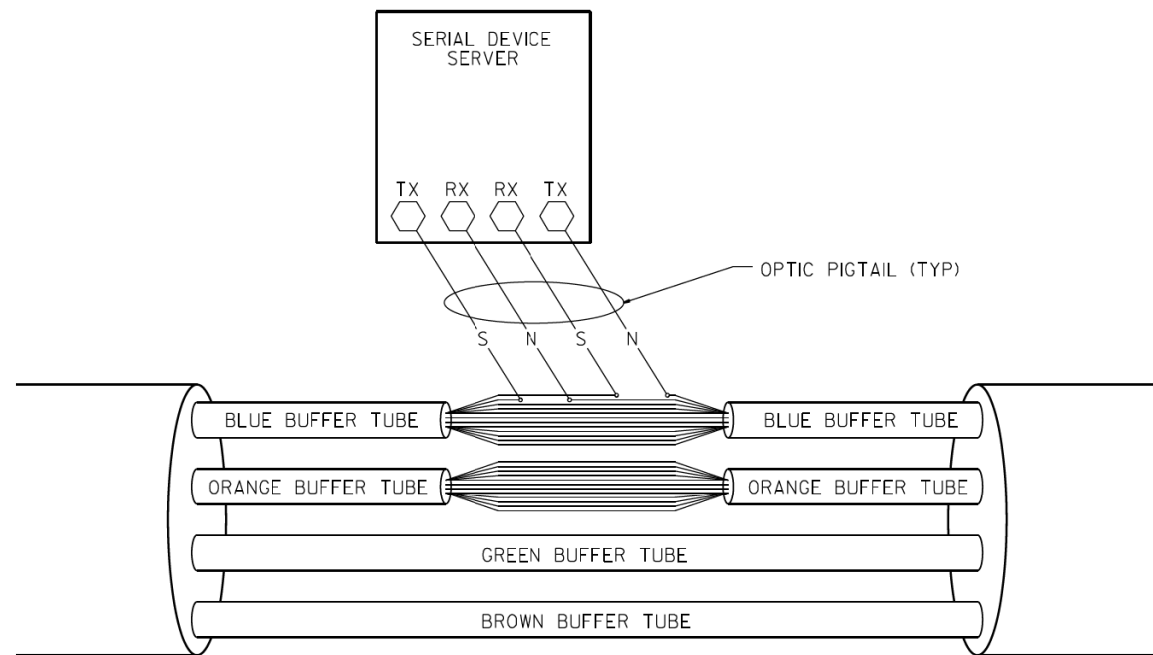


SIDE VIEW  
JUNCTION BOX TYPE "J"

ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF  
BOX AND COVER SHALL BE 0.25" (6.4 mm) TYPE 316 STAINLESS STEEL

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15' (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"  
AND FOR A SMOOTH TRANSITION OF 4" (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME =	USER NAME = #USER*	DESIGNED - J.G.	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> TRAFFIC SYSTEMS CENTER	<b>JUNCTION BOX "TYPE J"</b> <b>IN DOUBLE FACED</b> <b>BARRIER WALL</b>	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL*		DRAWN - G.W.	REVISED -						1972	1154	
#MODELNAME*		CHECKED - J.G.	REVISED -			CONTRACT NO.					
		DATE - 04-19-05	REVISED -			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

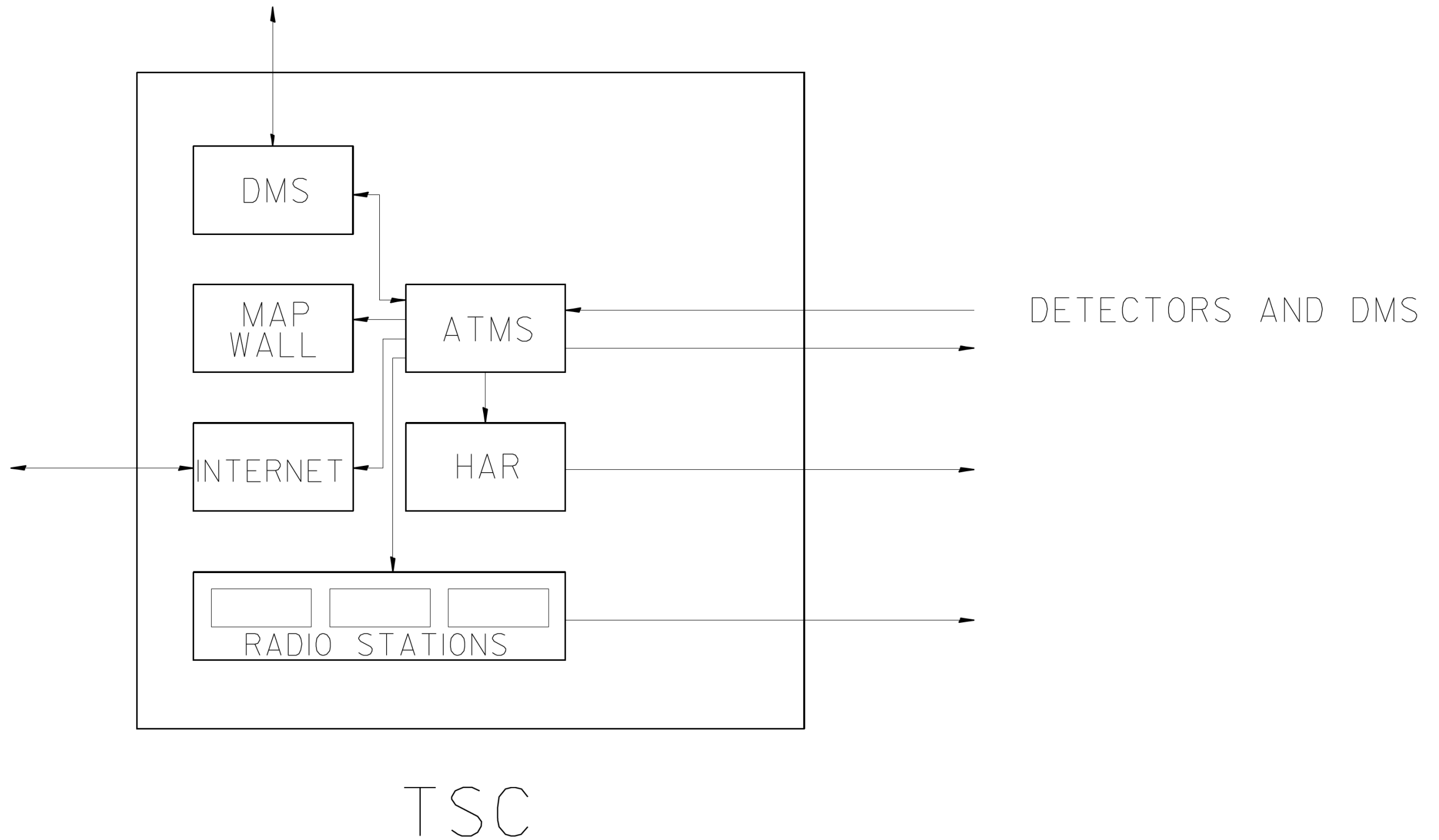


PHYSICAL SPLICE DETAILS (TYP)  
(NOT TO SCALE)

FIBERS		FUNCTION	APPLICATION DESCRIPTION
FIBER NO.	COLOR CODE		
1	BLUE	IN TX	DATA CIRCUIT
2	ORANGE	IN RX	
3	GREEN	OUT RX	
4	BROWN	OUT TX	
5	SLATE	IN TX	DMS
6	WHITE	IN RX	
7	RED	OUT RX	
8	BLACK	OUT TX	
9	YELLOW	IN TX	CCTV
10	VIOLET	IN TX	
11	ROSE	OUT RX	
12	AQUA	OUT TX	

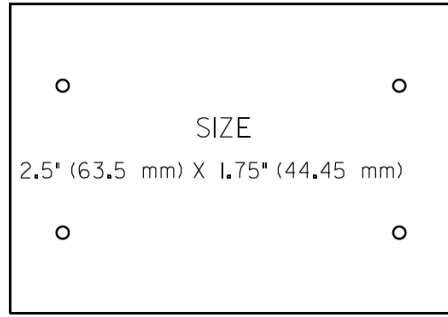
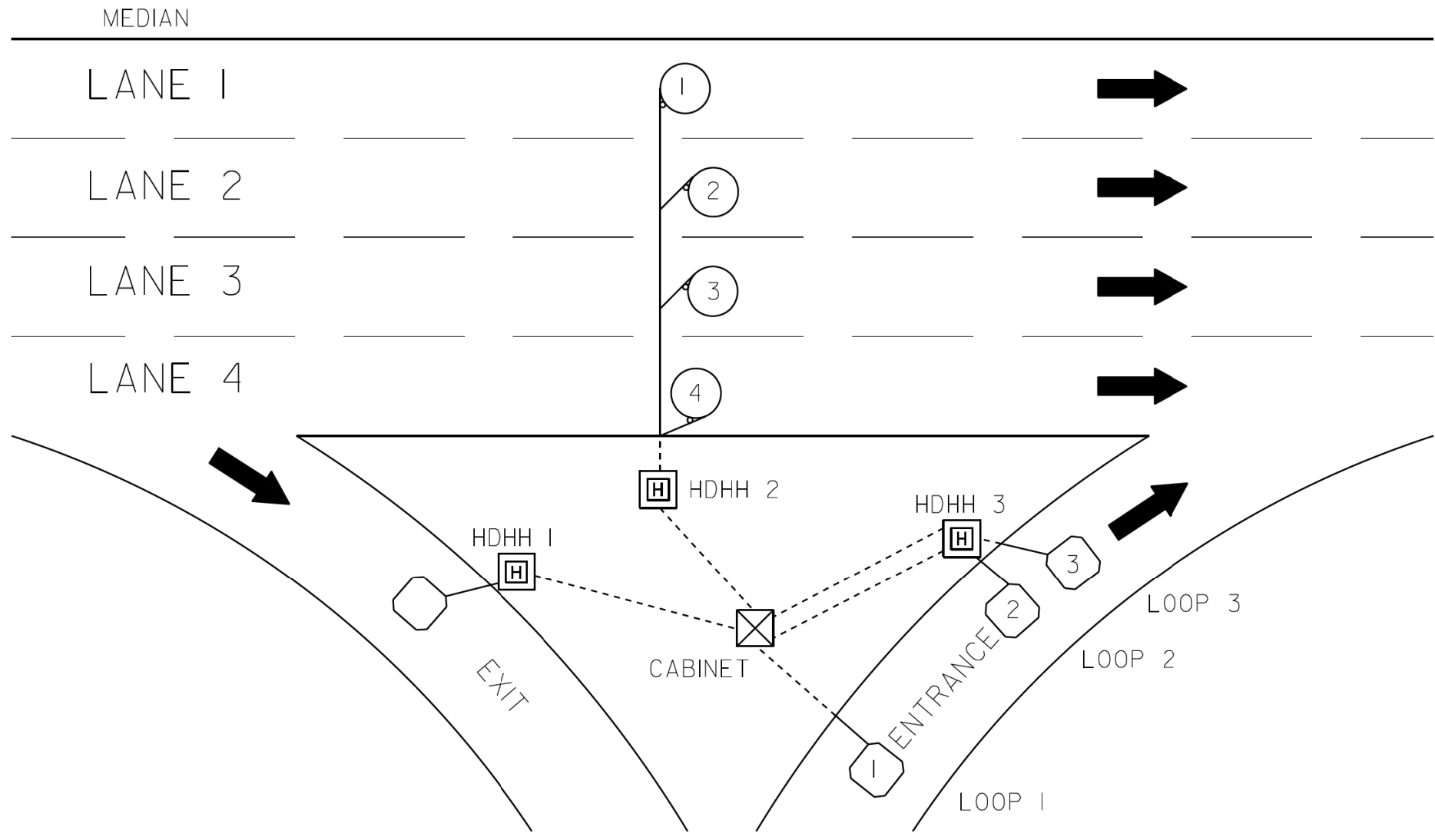
**NOTE:**

I.- THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE.



FILE NAME = C:\d106010\155TCTYP.DGN	USER NAME = #USER#	DESIGNED - J.G.	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> TRAFFIC SYSTEMS CENTER	TSC ATMS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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#MODELNAME#		CHECKED - J.G.	REVISED -					FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		DATE - 01/07/2010	REVISED -									





SUGGESTED TAG  
 PANDUIT  
 #MP250WI75-C  
 OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____				DATE _____	
LOOP LOCATION -- LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

**HDHH 1 EXAMPLE**

IB-EB EXIT  
 CCW IN/  
 TO CABINET # \_\_\_\_\_

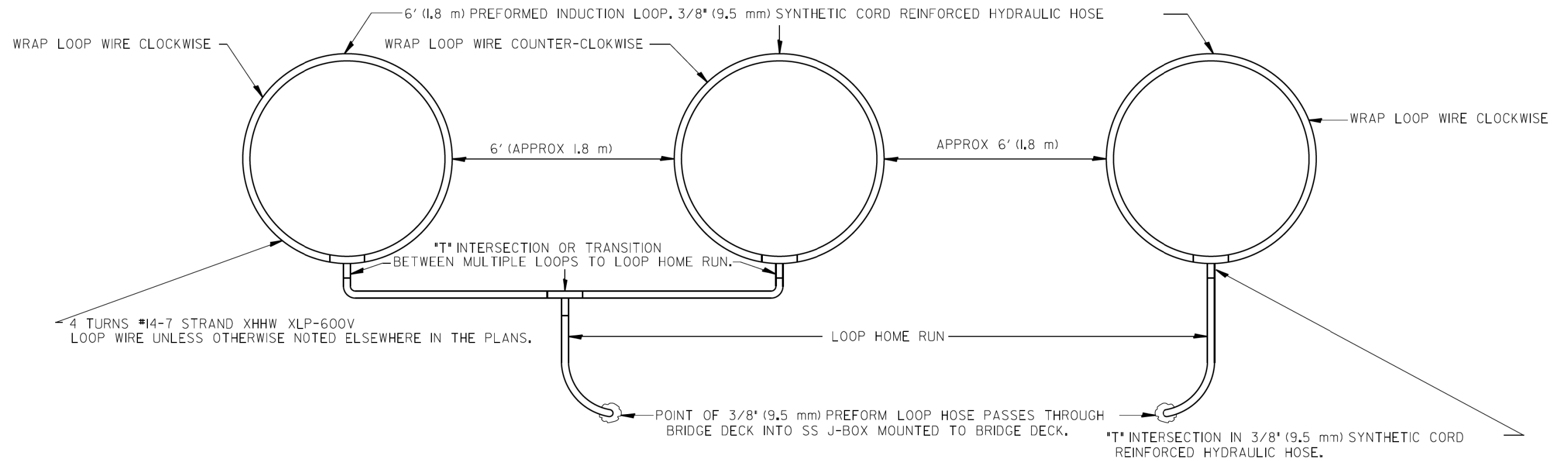
**HDHH 2 EXAMPLE**

IB (OB) LANE # \_\_\_\_  
 CCW /OUT  
 TO CABINET # \_\_\_\_\_

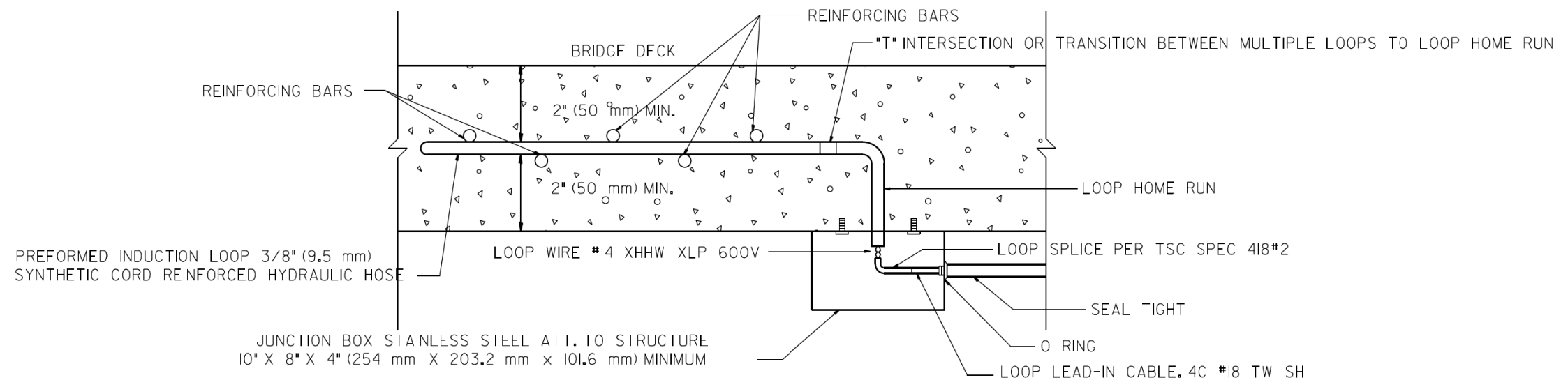
**HDHH 3 EXAMPLE**

IB-EB ENT.  
 LOOP #2  
 CW IN/

**NOTE:**  
 EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.



TYPICAL 3 LANE COUNT STATION EMBEDDED IN BRIDGE DECK

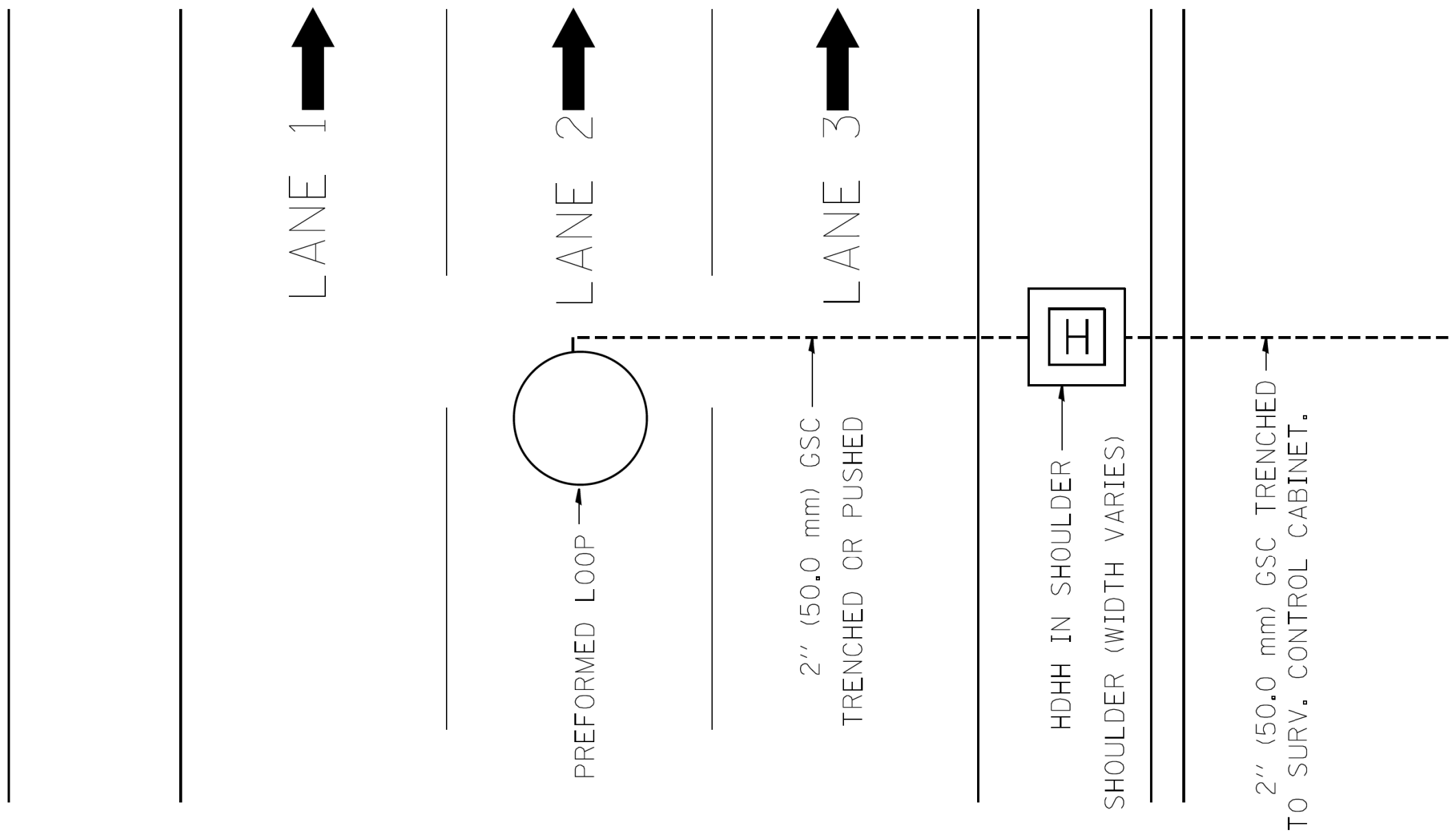


LOOP JUNCTION BOX UNDER BRIDGE DECK

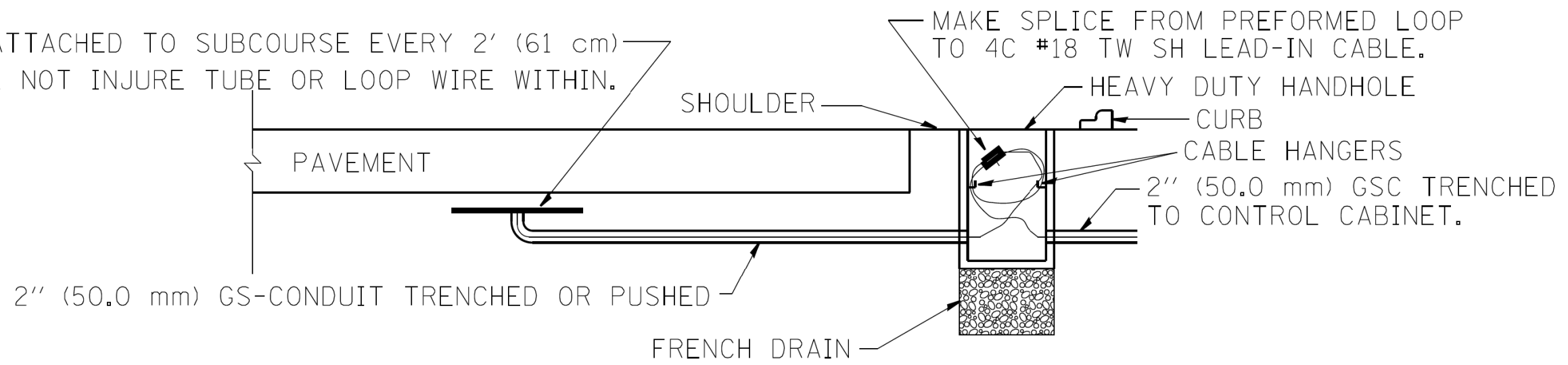
NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.

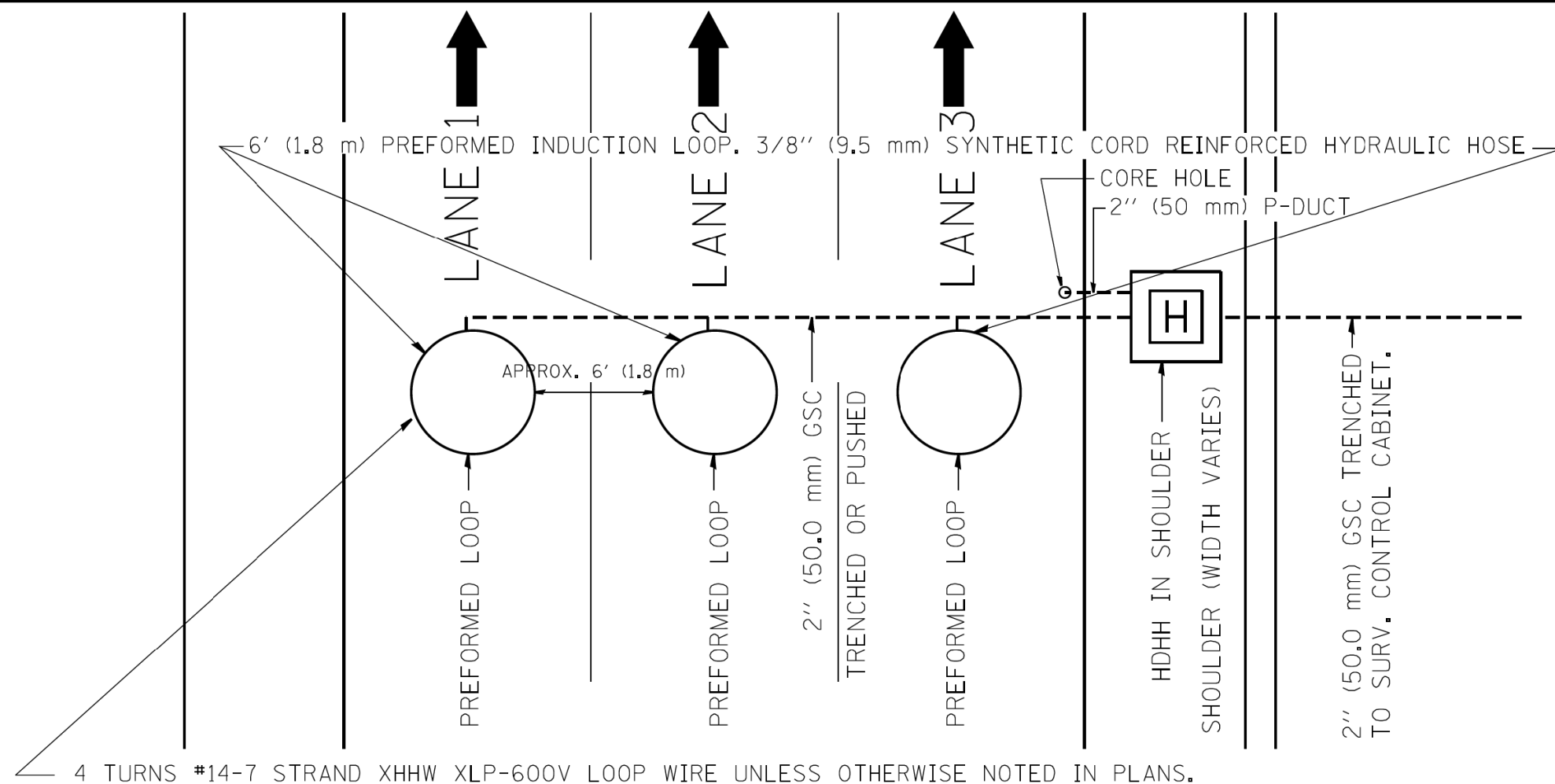
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER</b>	<b>PREFORMED LOOP INSTALLATION IN BRIDGE DECK</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN - G.M.	REVISED -								1972	1158
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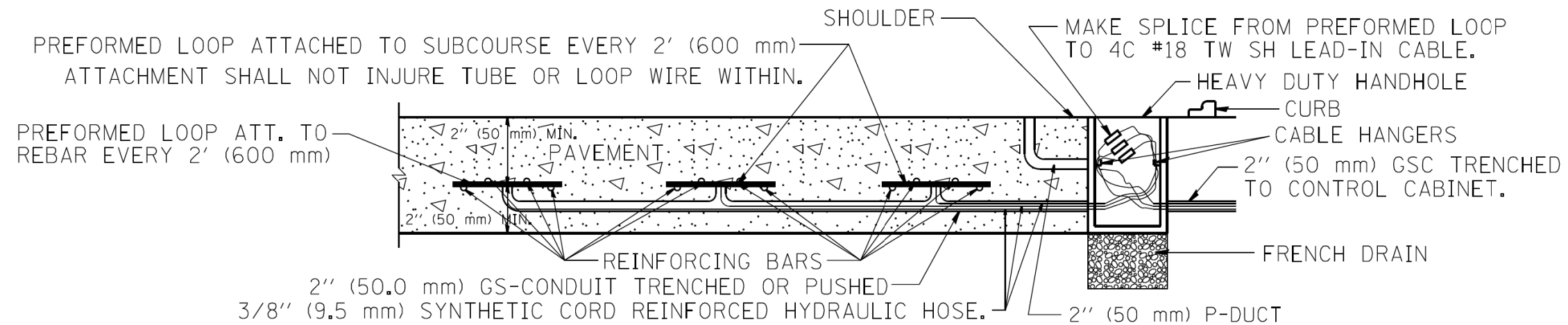
PREFORMED LOOP ATTACHED TO SUBCOURSE EVERY 2' (61 cm)  
ATTACHMENT SHALL NOT INJURE TUBE OR LOOP WIRE WITHIN.



FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER</b>	<b>PREFORMED LOOP TYPICAL INSTALLATION NON-BRIDGE DECK APPLICATION</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\widot\mezag\d0287541\TSCYP.dgn		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.			1972	1159
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	PLOT DATE = 2/7/2013	DATE - 03/18/02	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



**TYPICAL 3 LANE COUNT STATION IN NEW CONCRETE PAVEMENT**

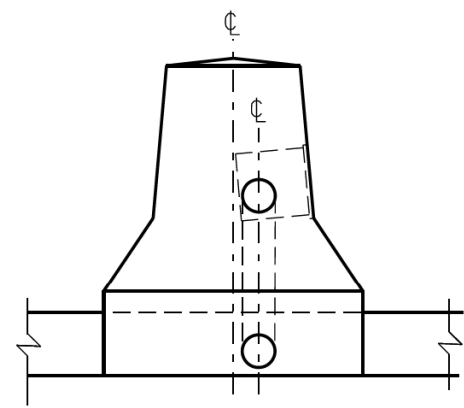


**LOOP INSTALLATION IN NEW CONCRETE PAVEMENT**

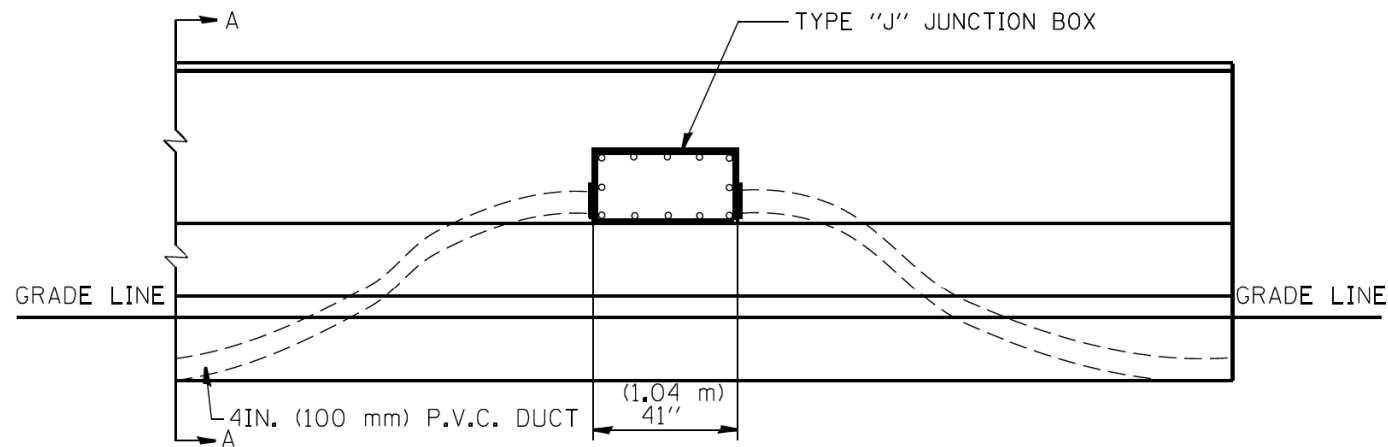
**NOTES:**

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANES 1 AND 3 WRAP LOOPS CLOCKWISE, FOR LANE 2 WRAP LOOP COUNTER CLOCKWISE.
- 5.- FOR COUNT STATIONS WHICH HAVE MORE THAN 3 LANES, A 3" (75 mm) GSC SHALL BE USED.
- 6.- COREHOLE SHALL BE FILLED WITH DUCT SEAL, JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

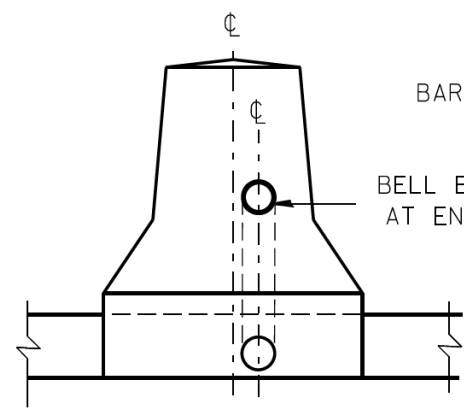
FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP TYPICAL INSTALLATION NEW CONCRETE PAVEMENT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/7/2013	CHECKED - J.G.	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.		
		DATE - 06/22/04	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



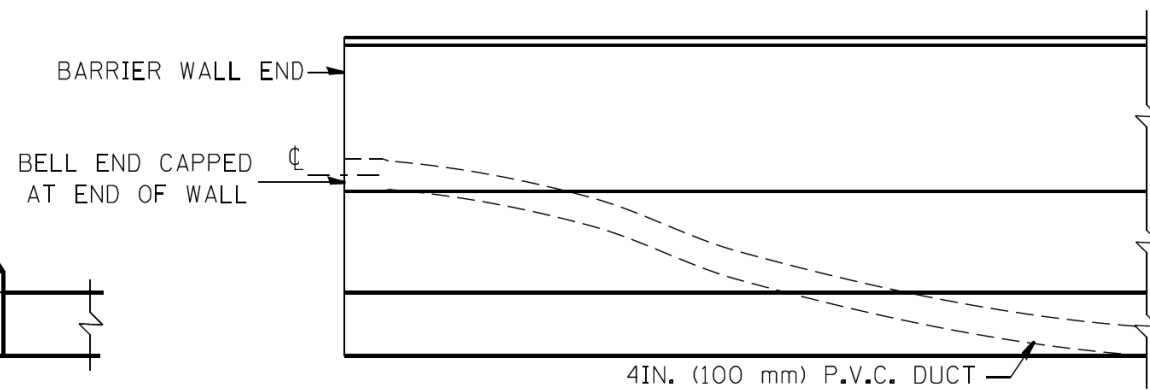
**SECTION A-A**



**ELEVATION  
BARRIER WALL DUCT DETAIL  
1500FT. (457.2 m) INTERVAL**

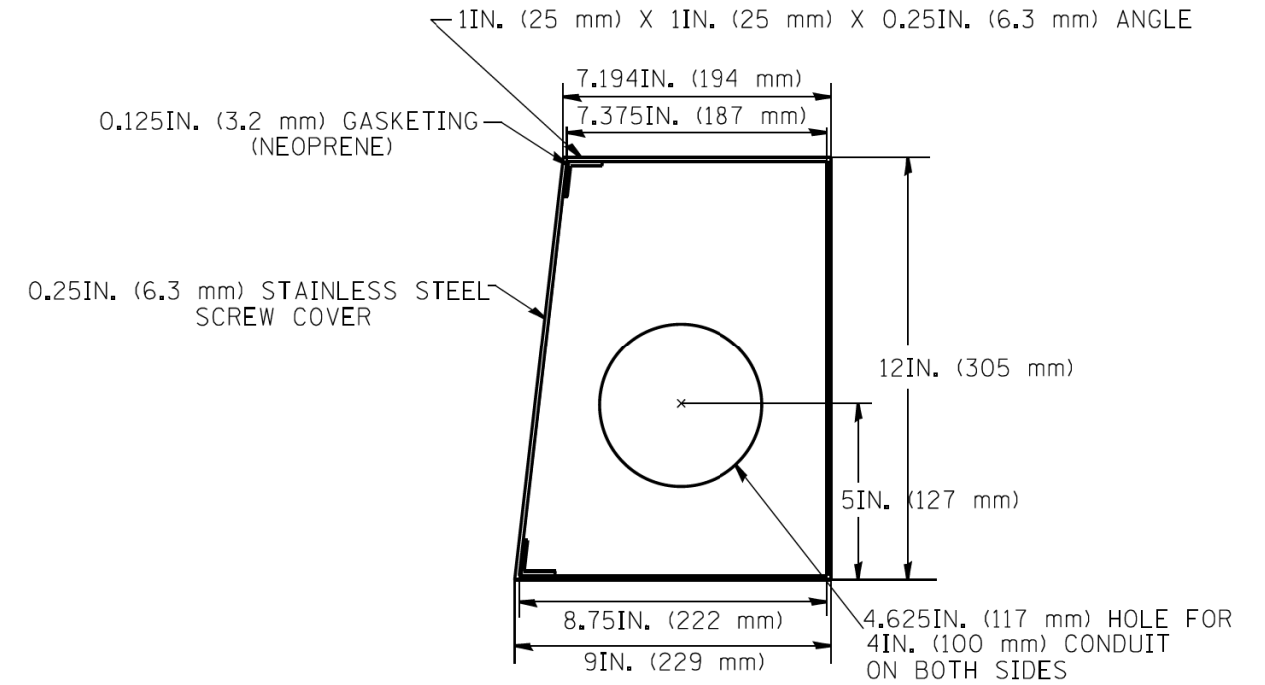


**END VIEW**



**ELEVATION**

**END OF BARRIER WALL DUCT DETAIL**



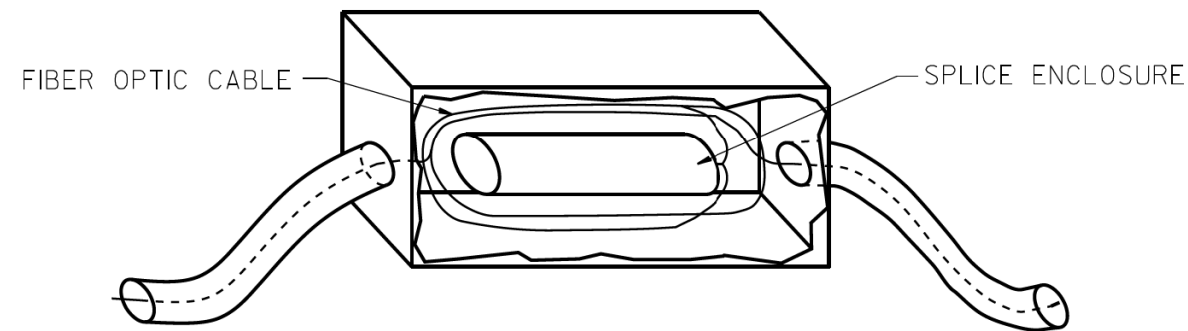
**SIDE VIEW**

**SPECIAL JUNCTION BOX TYPE "J" TO BE  
INSTALLED IN BARRIER WALL TYPE "2" ONLY**

ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF  
BOX AND COVER SHALL BE 0.25IN. (6.4 mm) TYPE 316 STAINLESS STEEL

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"  
AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

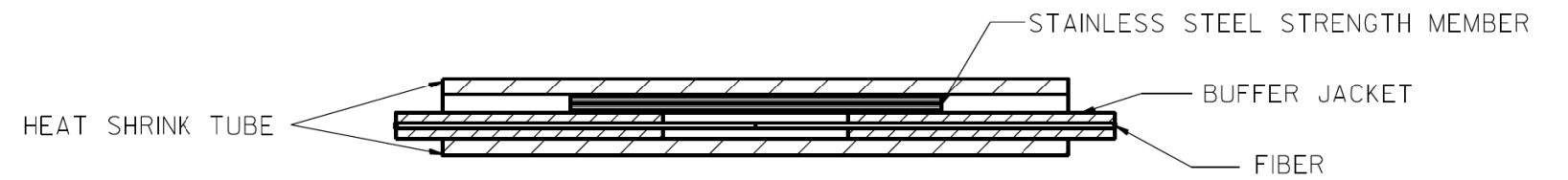
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ca:\pwork\pwork\mezag\d0287541\TSCYF.dgn	DRAWN - G.M.	REVISED - 10/96	SCALE:					SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT SCALE = 100,0000' / 1" =	CHECKED - R.L.	REVISED - 02/94											
PLOT DATE = 2/7/2013	DATE - 06/22/94	REVISED -											



FIBER OPTIC CABLE

SPLICE ENCLOSURE

JUNCTION BOX DETAIL



HEAT SHRINK TUBE

STAINLESS STEEL STRENGTH MEMBER

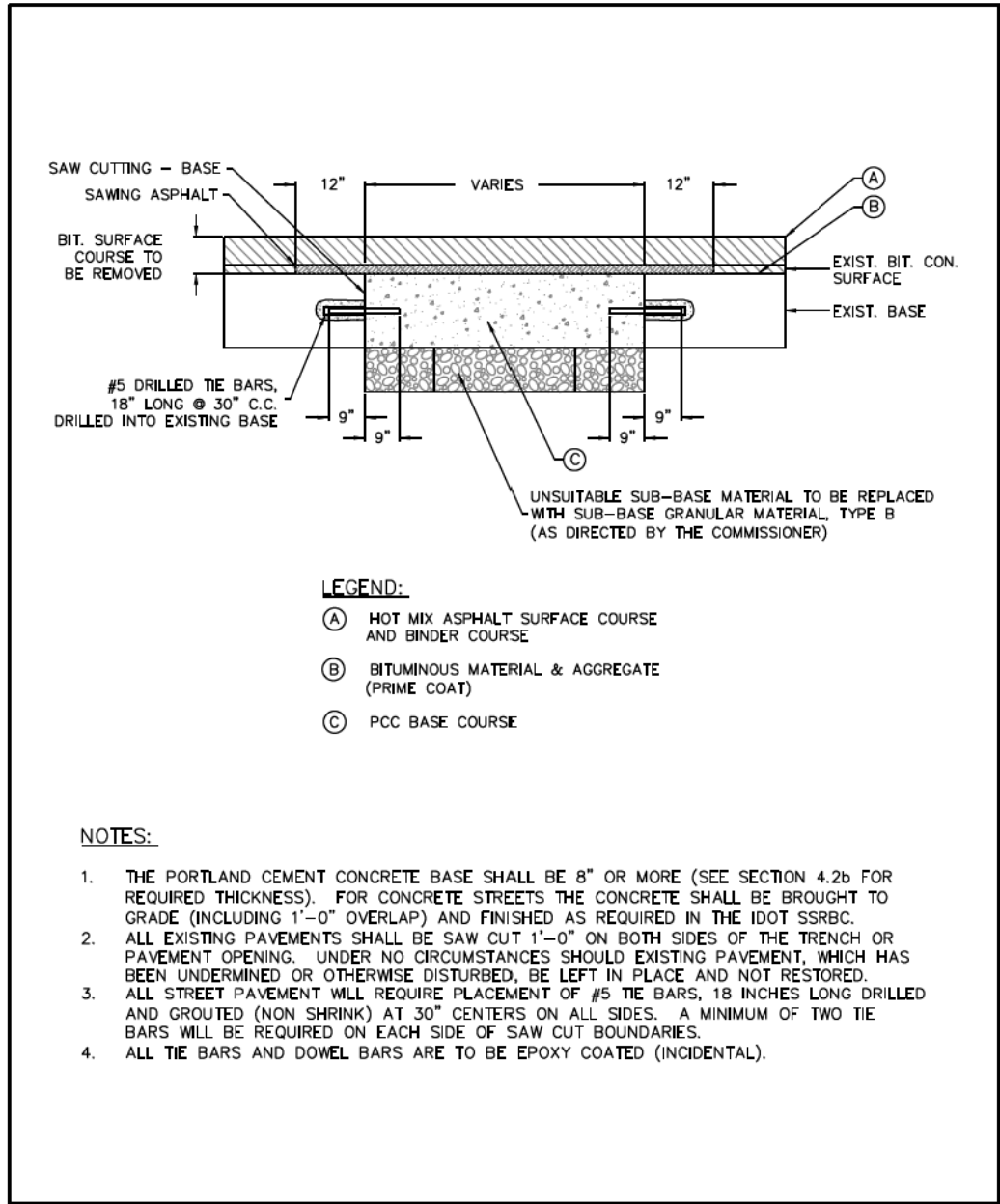
BUFFER JACKET

FIBER

FIBER SPLICE DETAIL

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - D.S.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b> TRAFFIC SYSTEMS CENTER	<b>FIBER OPTIC WIRING DETAIL</b>				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - G.M.	REVISED -									1972	1162
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		DATE - 04/26/93	REVISED -									FED. ROAD DIST. NO.	ILLINOIS

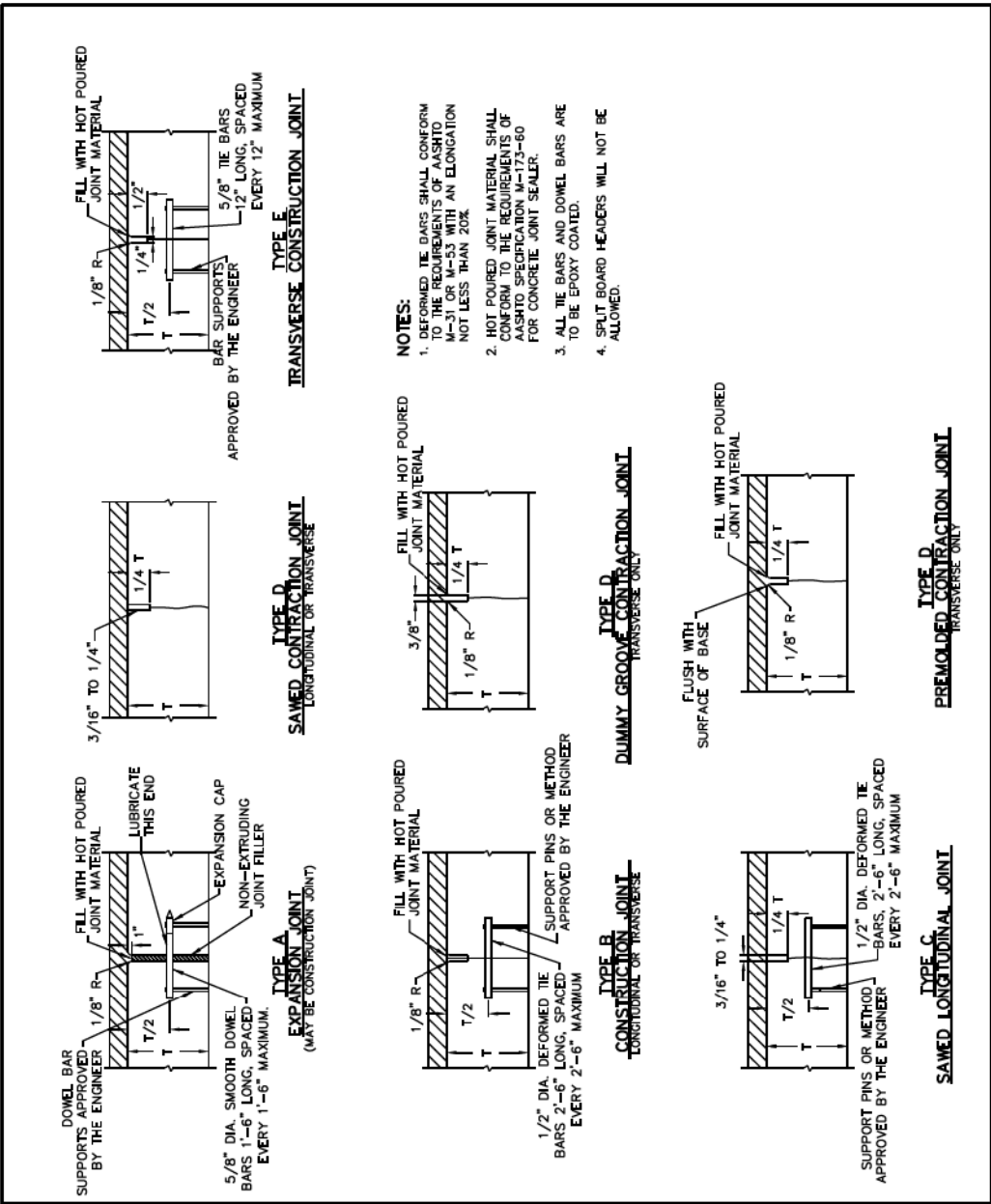
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- LEGEND:**
- (A) HOT MIX ASPHALT SURFACE COURSE AND BINDER COURSE
  - (B) BITUMINOUS MATERIAL & AGGREGATE (PRIME COAT)
  - (C) PCC BASE COURSE

- NOTES:**
1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE SECTION 4.2b FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1"-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
  2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
  3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
  4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

<p>CHICAGO DEPARTMENT OF TRANSPORTATION</p>	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	PAVEMENT PATCHING AND PORTLAND CEMENT CONCRETE REPLACEMENT		
	1/27/2016	REVISION 2			
	DATE	SHEET	DRAWN BY		
	01/11/07	A-2-2C	CDOT		



<p>CHICAGO DEPARTMENT OF TRANSPORTATION</p>	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	P.C.C. BASE COURSE JOINT DETAILS		
	DATE	SHEET	DRAWN BY		
	12/27/06	A-2-3C	CDOT		

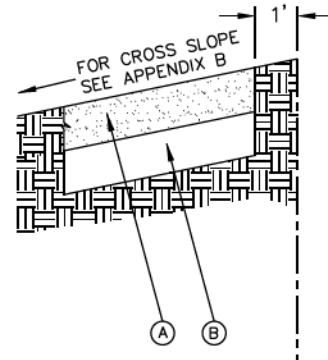


D160X93-SHT-CDOT-Detail-01	DESIGNED -	REVISED
USER NAME = msbilliot	DRAWN -	REVISED
PLOT SCALE = 100.000' / 1"	CHECKED -	REVISED
PLOT DATE = 7/30/2018	DATE -	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT STANDARD DETAILS	
SCALE:	SHEET 1 OF 6 SHEETS STA. TO STA.

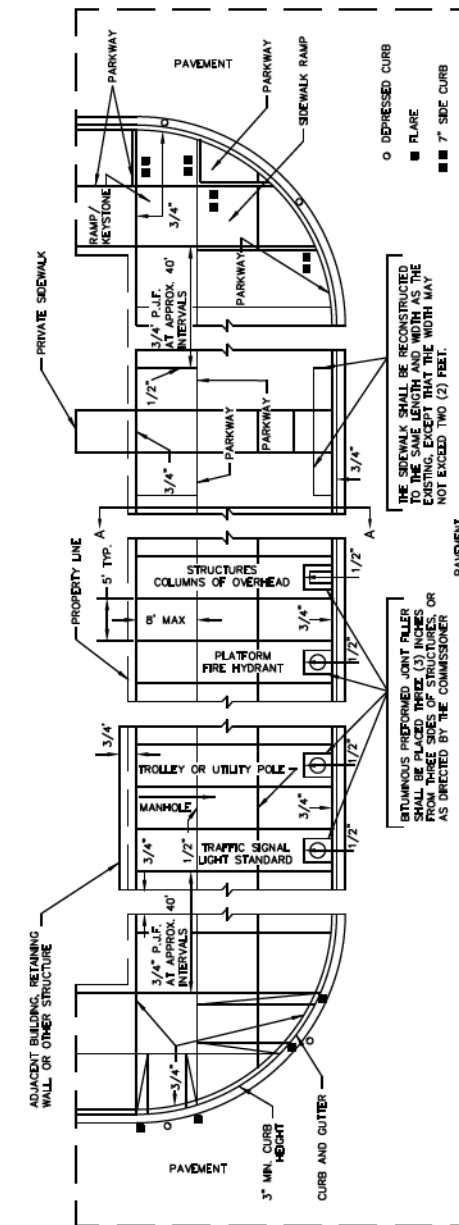
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1163
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

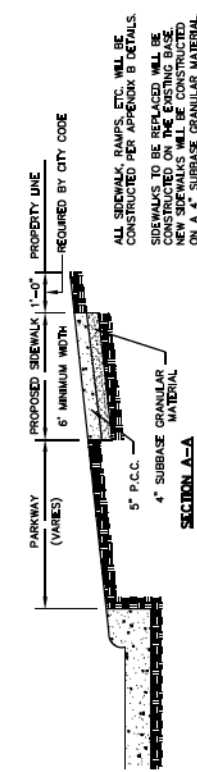
- (A) PROPOSED 5" P.C.C. SIDEWALK \*
  - (B) SUBBASE GRANULAR MATERIAL, TYPE B OR C, 4"
- \* CURB RAMP & KEYSTONE 8" P.C.C. AT SIGNALIZED AND INDUSTRIAL STREET INTERSECTIONS

<p>CHICAGO DEPARTMENT OF TRANSPORTATION</p>	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	ADA COMPLIANT SIDEWALK CONSTRUCTION DETAILS		
			DATE	SHEET	DRAWN BY
			12/20/06	A-3-1	CDOT



THE SIDEWALK SHALL BE RECONSTRUCTED TO THE SAME LENGTH AND WIDTH AS THE EXISTING, EXCEPT THAT THE WIDTH MAY NOT EXCEED TWO (2) FEET.

STANDARD JOINT FILLER SHALL BE USED FROM THREE SIDES OF STRUCTURES, OR AS DIRECTED BY THE COMMISSIONER



\* THE 1/2" AND 3/4" DIMENSIONS REFER TO THE THICKNESS OF THE JOINT FILLER REQUIRED AT THE VARIOUS LOCATIONS.

<p>CHICAGO DEPARTMENT OF TRANSPORTATION</p>	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	DETAILS OF PORTLAND CEMENT CONCRETE CONSTRUCTION		
			DATE	SHEET	DRAWN BY
			12/22/06	A-3-2	CDOT



D160X93-SHT-CDOT-Detail-02	DESIGNED -	REVISED
USER NAME = msbilliot	DRAWN -	REVISED
PLOT SCALE = 100.000 / in.	CHECKED -	REVISED
PLOT DATE = 7/30/2018	DATE -	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT STANDARD DETAILS			
SCALE:	SHEET 2 OF 6 SHEETS	STA.	TO STA.

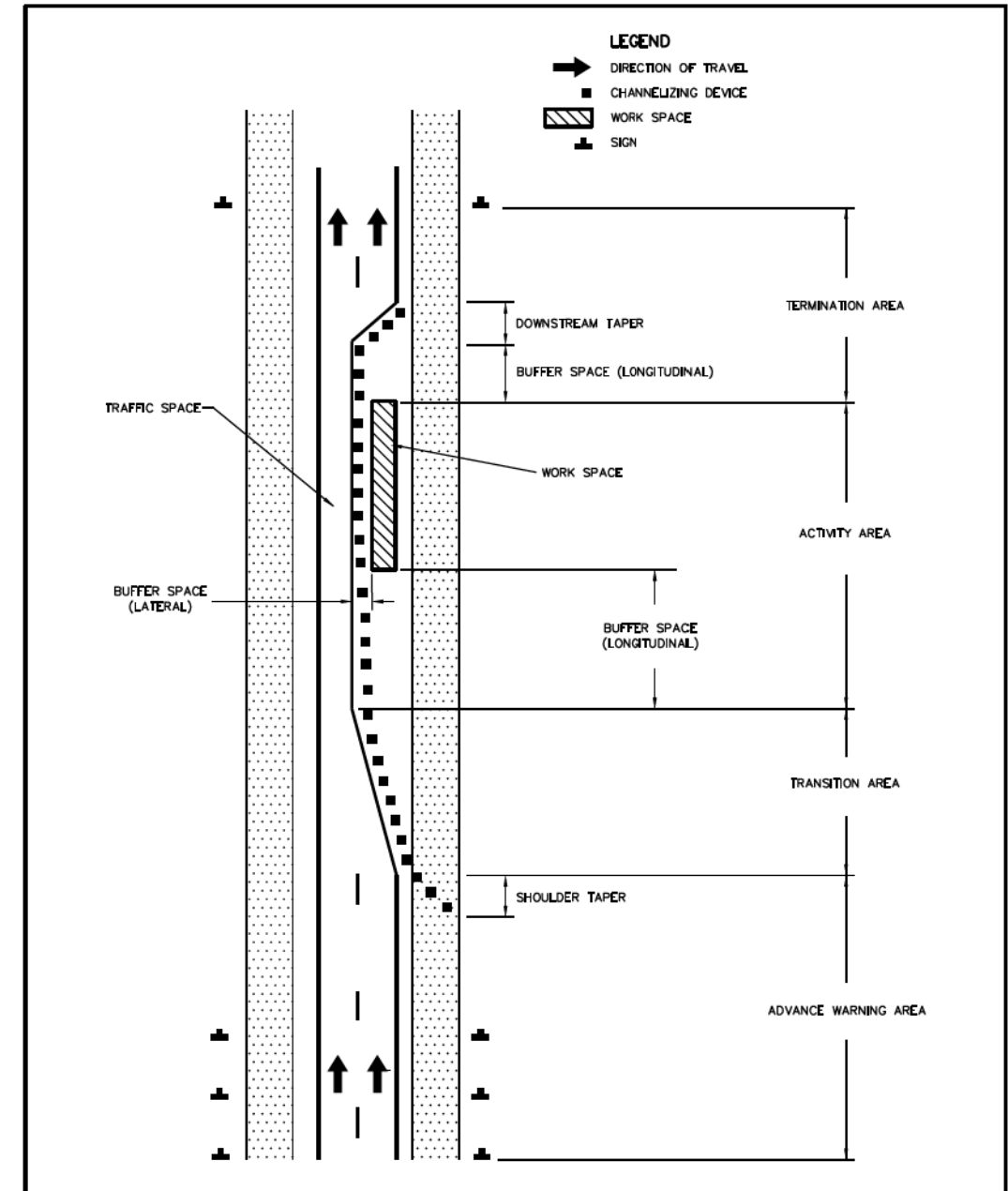
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1164
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				



For standard details see Regulations of Sewer Construction and Stormwater Management:  
[http://www.cityofchicago.org/city/en/depts/water/provdrs/engineer/svcs/2009\\_sewer\\_constructionandstormwatermanagementrequirements.html](http://www.cityofchicago.org/city/en/depts/water/provdrs/engineer/svcs/2009_sewer_constructionandstormwatermanagementrequirements.html)



DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	SEWER CONSTRUCTION AND STORMWATER MANAGEMENT REQUIREMENTS		
		DATE	SHEET	DRAWN BY
		12/28/06	A-4-1	CDOT



DATE	REVISION	CITY OF CHICAGO		
		COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE		
		DATE	SHEET	DRAWN BY
		1/1/14	A-6-1A	CDOT

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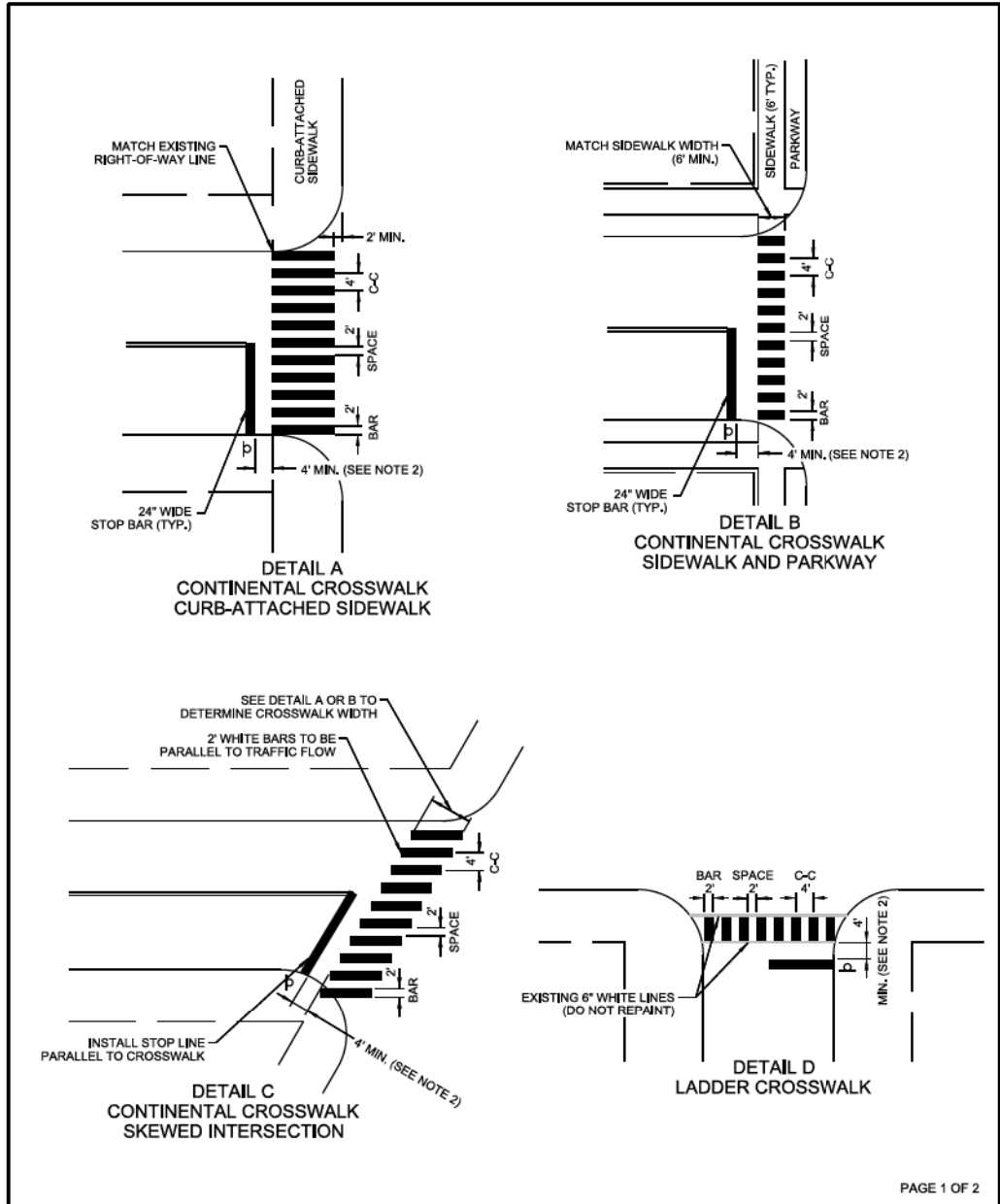
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT STANDARD DETAILS

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

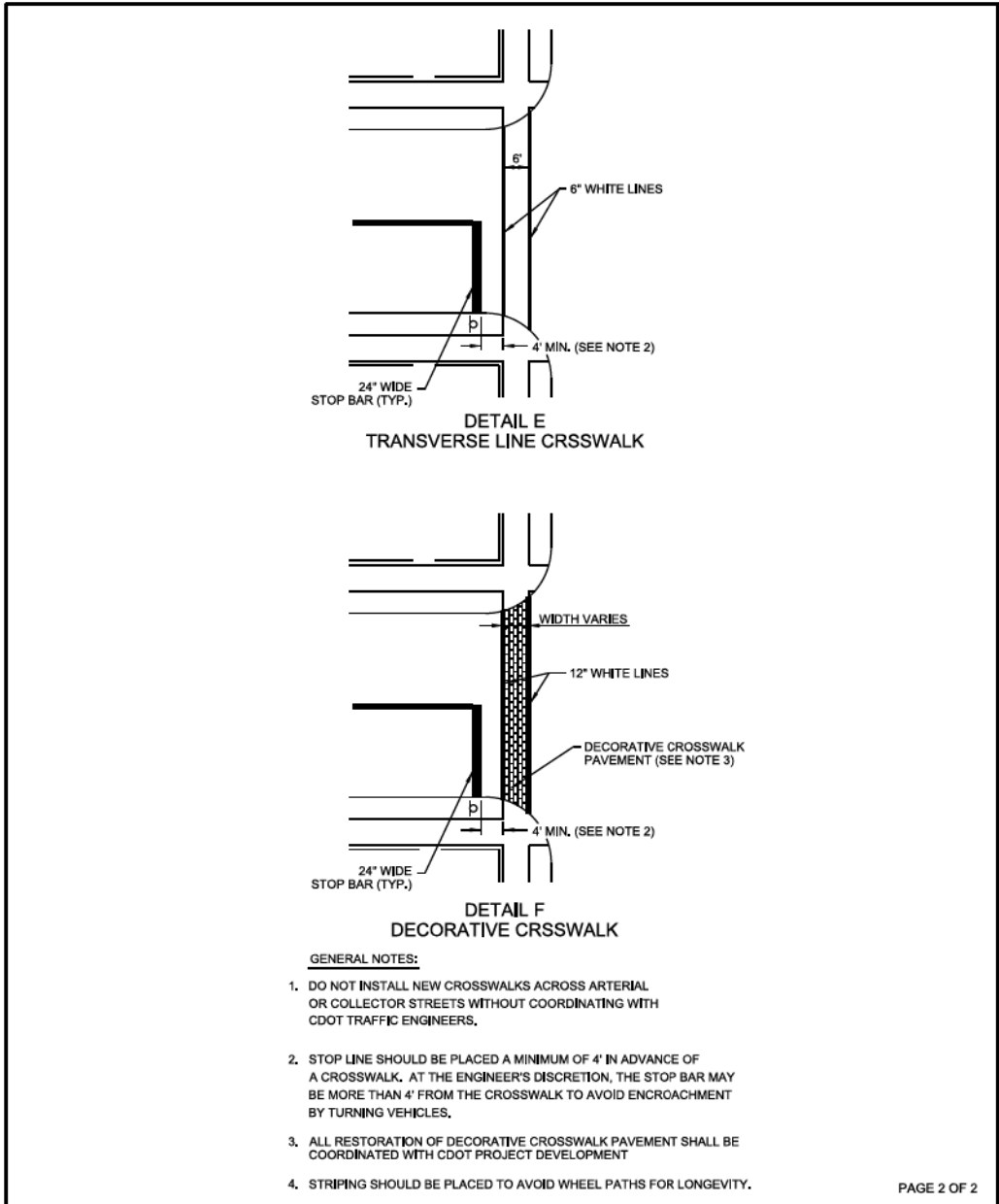
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1165
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60X93

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PAGE 1 OF 2

 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	CROSSWALK MARKING DETAIL		
			DATE	SHEET	DRAWN BY
			06/25/12	A-7-1A	CDOT



- GENERAL NOTES:**
- DO NOT INSTALL NEW CROSSWALKS ACROSS ARTERIAL OR COLLECTOR STREETS WITHOUT COORDINATING WITH CDOT TRAFFIC ENGINEERS.
  - STOP LINE SHOULD BE PLACED A MINIMUM OF 4' IN ADVANCE OF A CROSSWALK. AT THE ENGINEER'S DISCRETION, THE STOP BAR MAY BE MORE THAN 4' FROM THE CROSSWALK TO AVOID ENCROACHMENT BY TURNING VEHICLES.
  - ALL RESTORATION OF DECORATIVE CROSSWALK PAVEMENT SHALL BE COORDINATED WITH CDOT PROJECT DEVELOPMENT
  - STRIPING SHOULD BE PLACED TO AVOID WHEEL PATHS FOR LONGEVITY.

PAGE 2 OF 2

 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	CROSSWALK MARKING DETAIL		
			DATE	SHEET	DRAWN BY
			06/25/12	A-7-1B	CDOT



DI60X93-SHT-CDOT-Detail-04	DESIGNED -	REVISED
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PLOT DATE = 7/30/2018	DATE -	REVISED

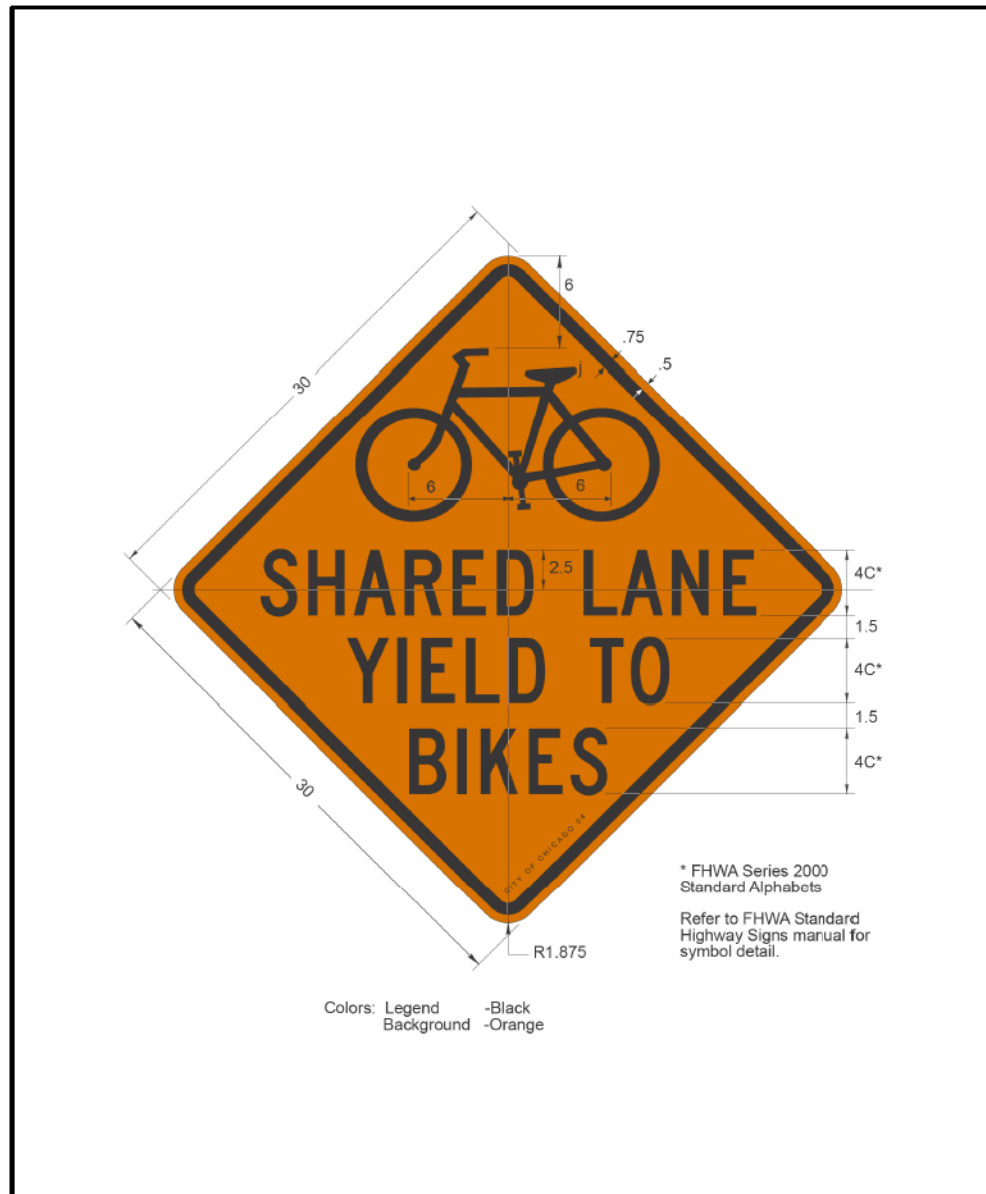
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT STANDARD DETAILS

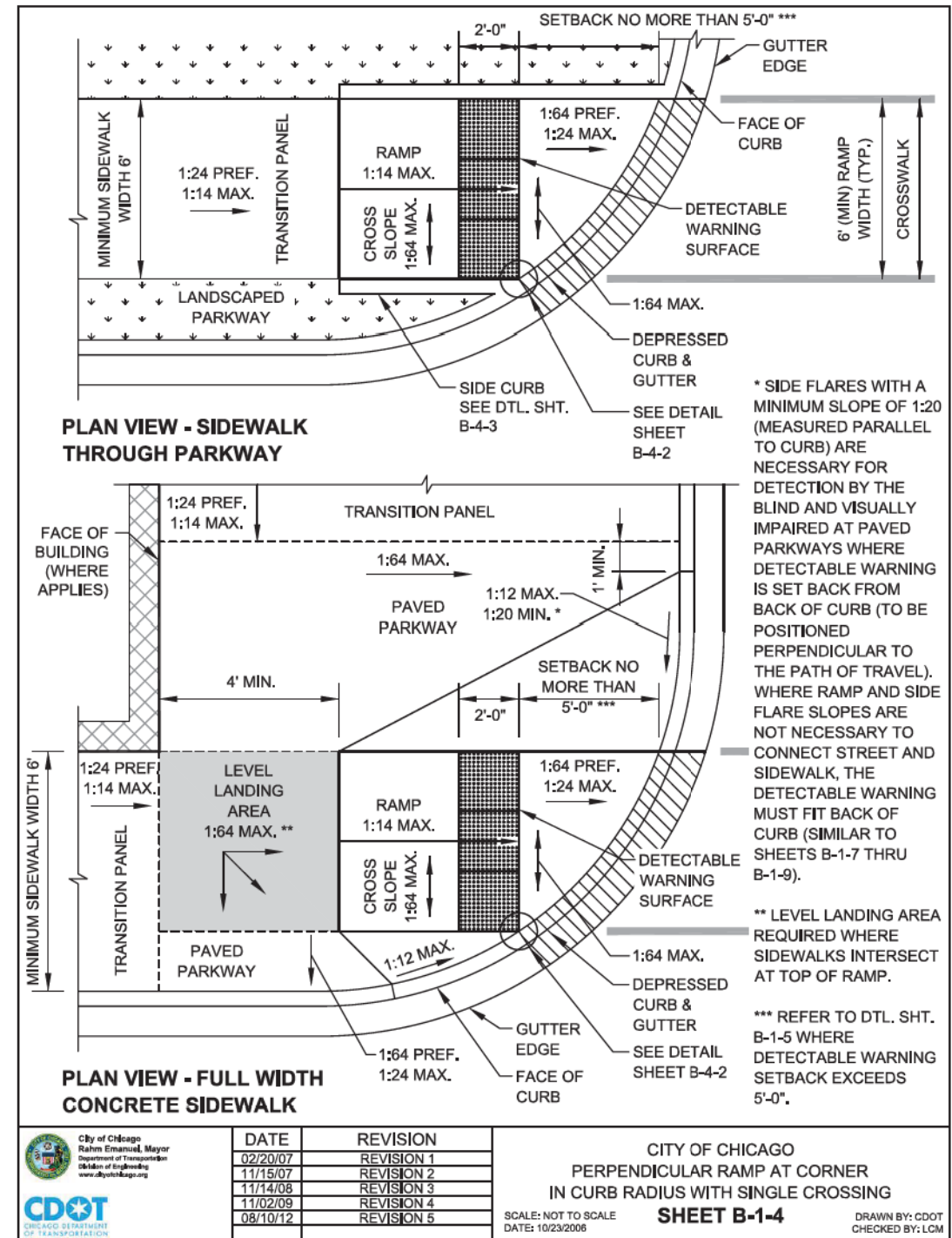
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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	DATE	REVISION	CITY OF CHICAGO		
			SHARED LANE YIELD TO BIKES SIGN		
	DATE	SHEET	DRAWN BY		
	1/1/14	A-7-9	CDOT		



	DATE	REVISION	CITY OF CHICAGO		
	02/20/07	REVISION 1	PERPENDICULAR RAMP AT CORNER IN CURB RADIUS WITH SINGLE CROSSING		
11/15/07	REVISION 2				
11/14/08	REVISION 3				
11/02/09	REVISION 4				
08/10/12	REVISION 5				
	SCALE: NOT TO SCALE	DATE: 10/23/2006	<b>SHEET B-1-4</b> DRAWN BY: CDOT CHECKED BY: LCM		



D160X93-SHT-CDOT-Detail-05	DESIGNED -	REVISED
USER NAME = msbilliot	DRAWN -	REVISED
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PLOT DATE = 7/30/2018	DATE -	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

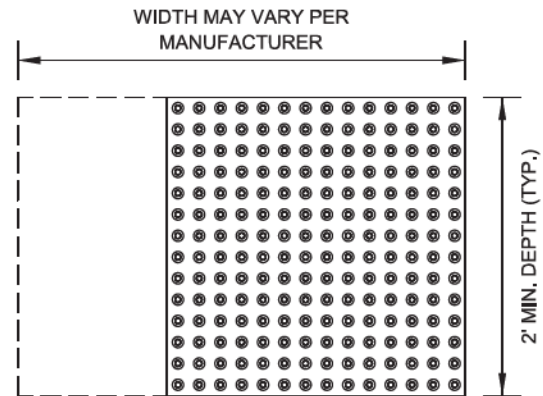
CDOT STANDARD DETAILS

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

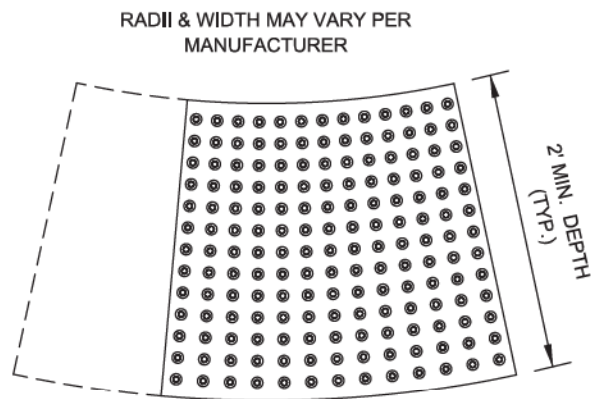
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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**STRAIGHT DETECTABLE WARNING UNITS**



**RADIAL DETECTABLE WARNING UNITS**



**DETECTABLE WARNING UNIT SIZES**

- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.
- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADIUS WITH THE PRODUCT MANUFACTURER.
- APPROVED LIST OF DETECTABLE WARNING PRODUCTS CAN BE FOUND ON CDOT'S WEBSITE ([www.dtyofchicago.org](http://www.dtyofchicago.org)).



DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4
08/10/12	REVISION 5

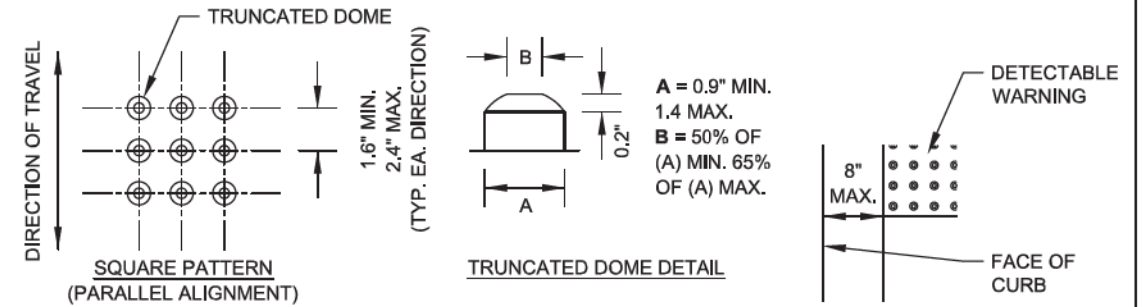
CITY OF CHICAGO  
DETECTABLE WARNING UNIT SIZES  
**SHEET B-4-1**

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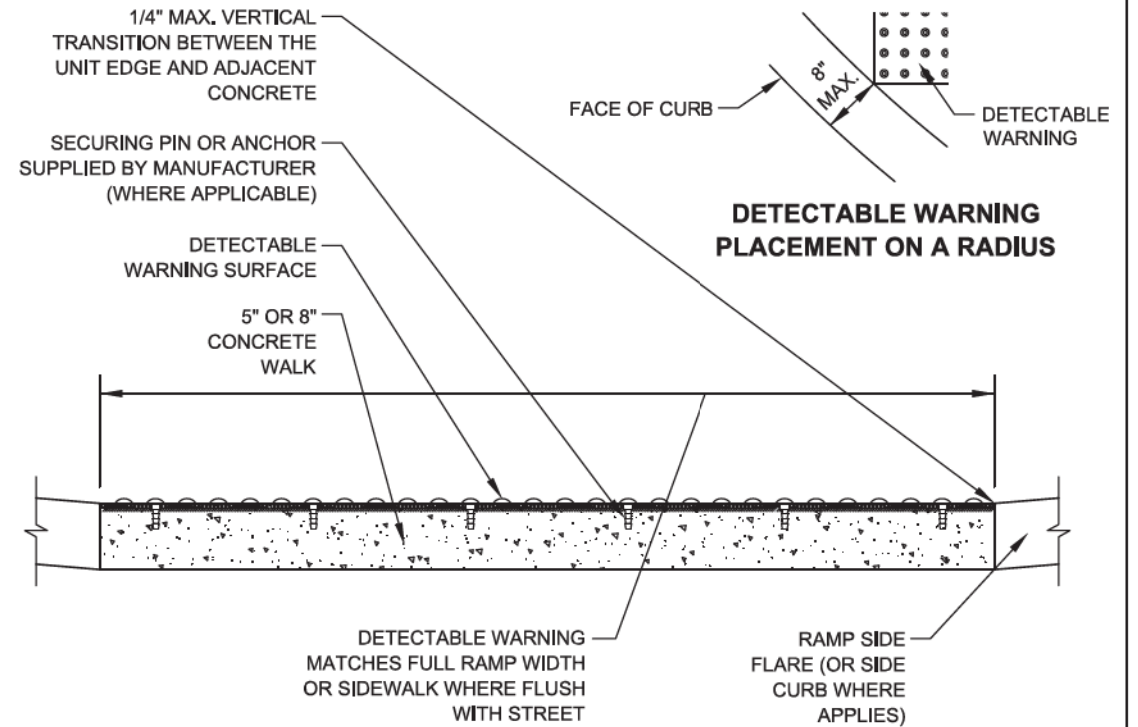
**GENERAL NOTE:**

THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



**UNIT PATTERN & DOME DETAIL**

**TYPICAL DETECTABLE WARNING PLACEMENT**



**DETECTABLE WARNING UNIT SECTION**



DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4
08/10/12	REVISION 5

CITY OF CHICAGO  
DETECTABLE WARNING UNIT DETAILS  
**SHEET B-4-2**

SCALE: NOT TO SCALE  
DATE: 10/23/2006

DRAWN BY: CDOT  
CHECKED BY: LCM



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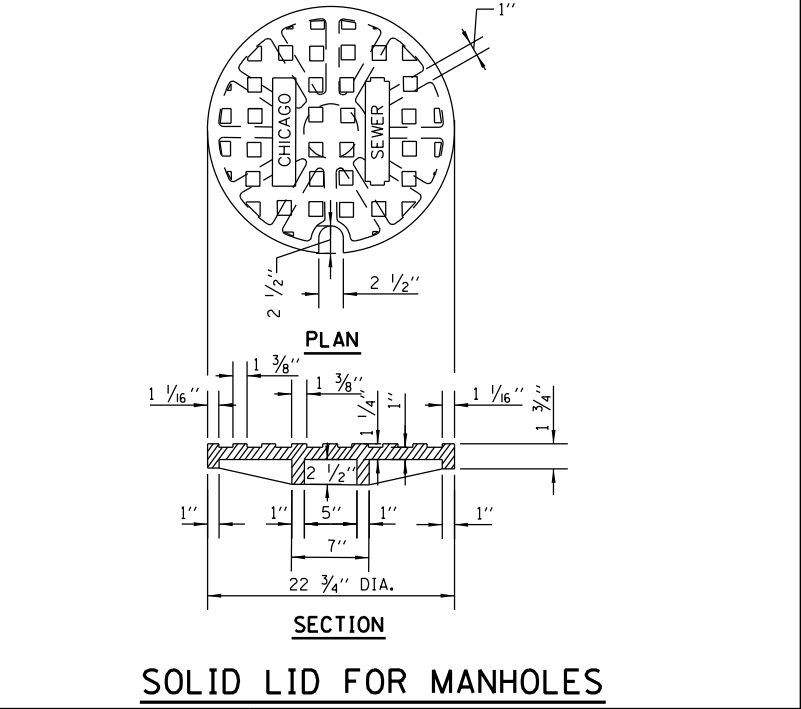
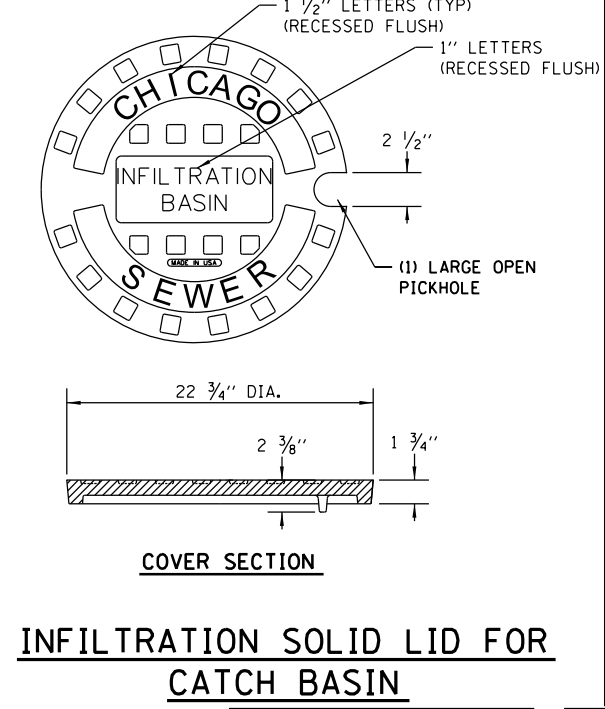
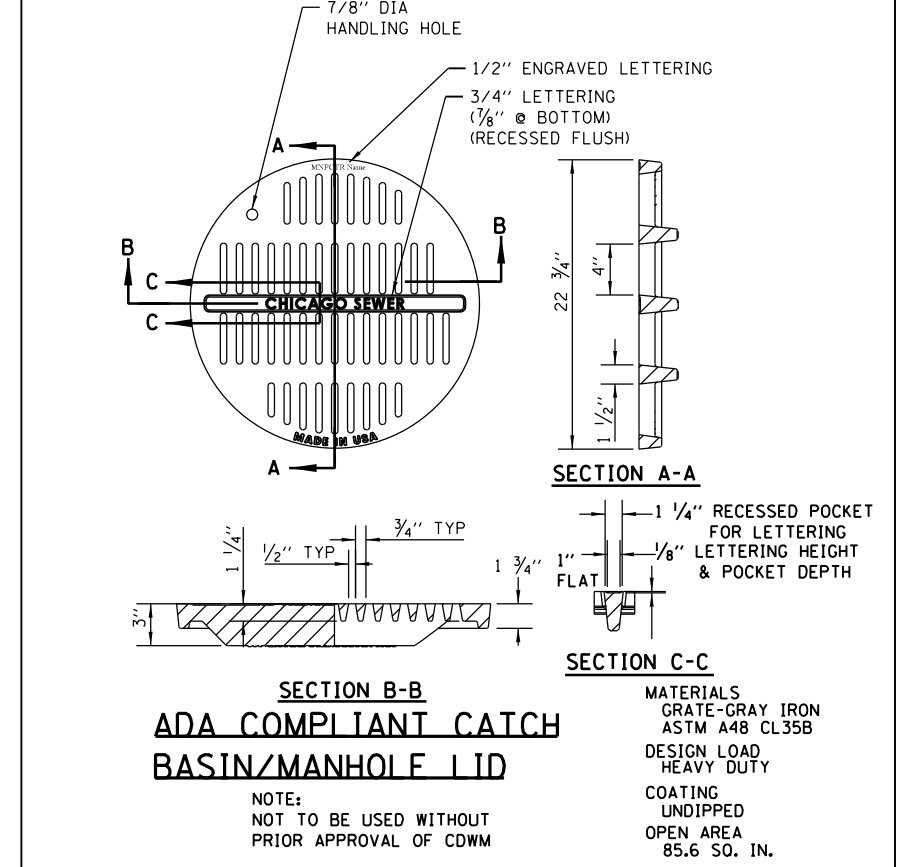
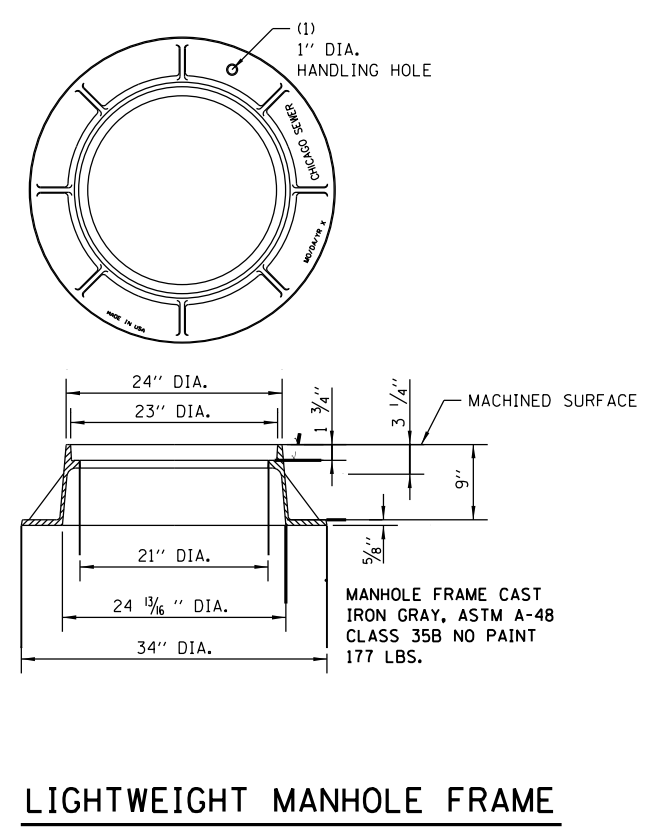
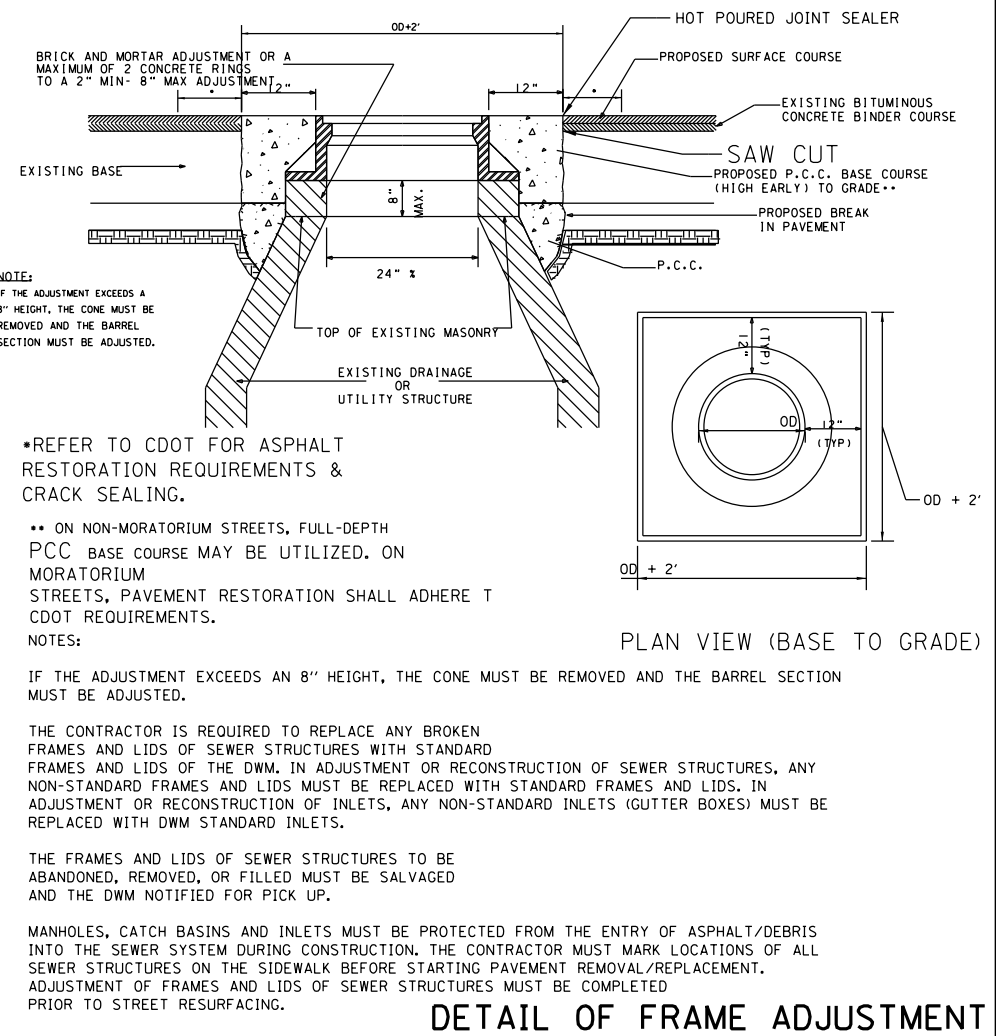
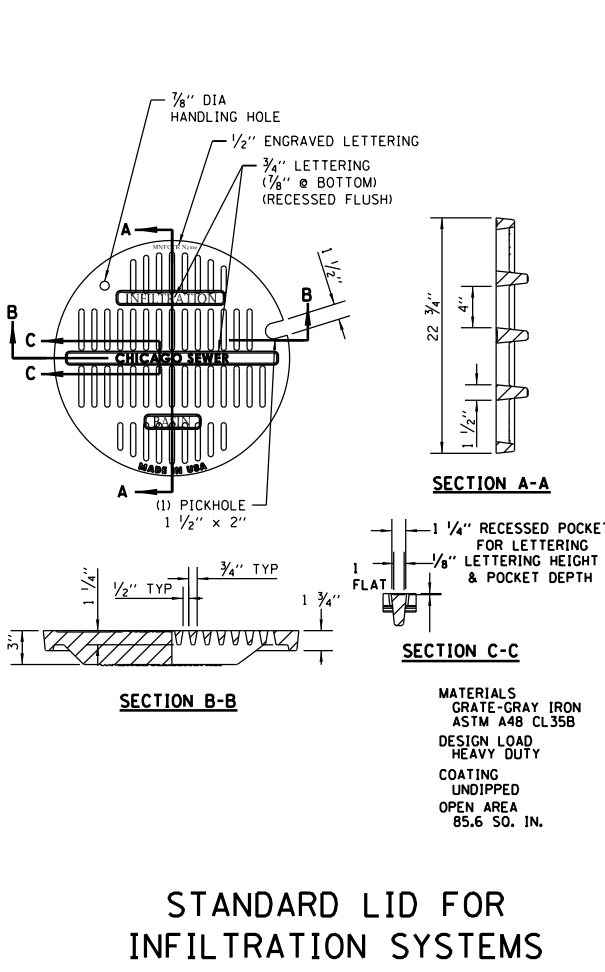
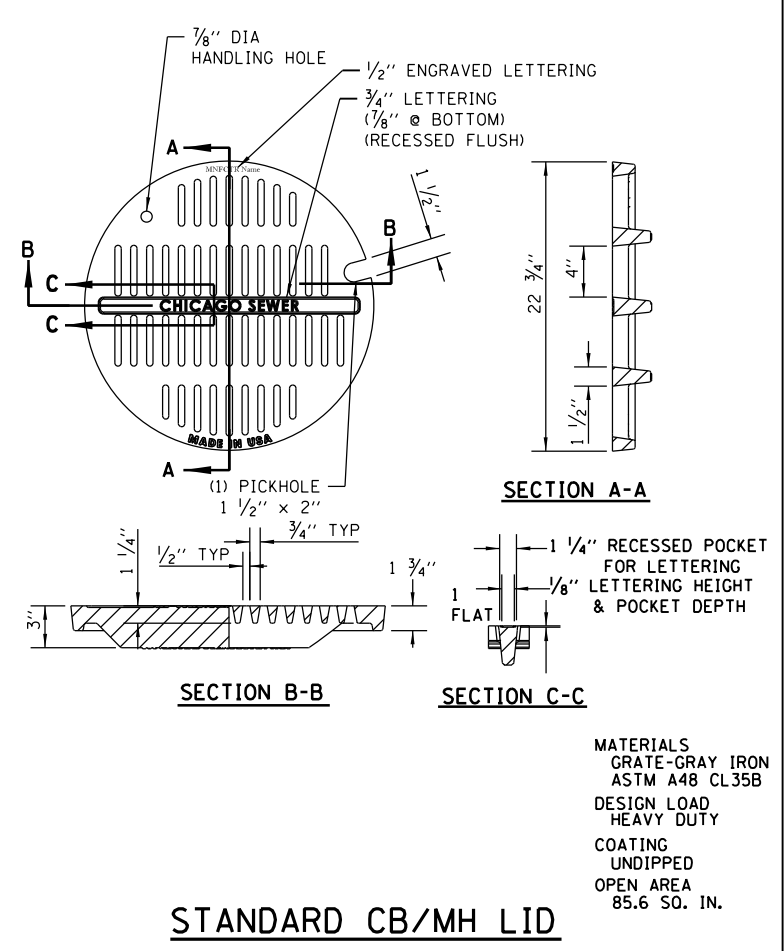
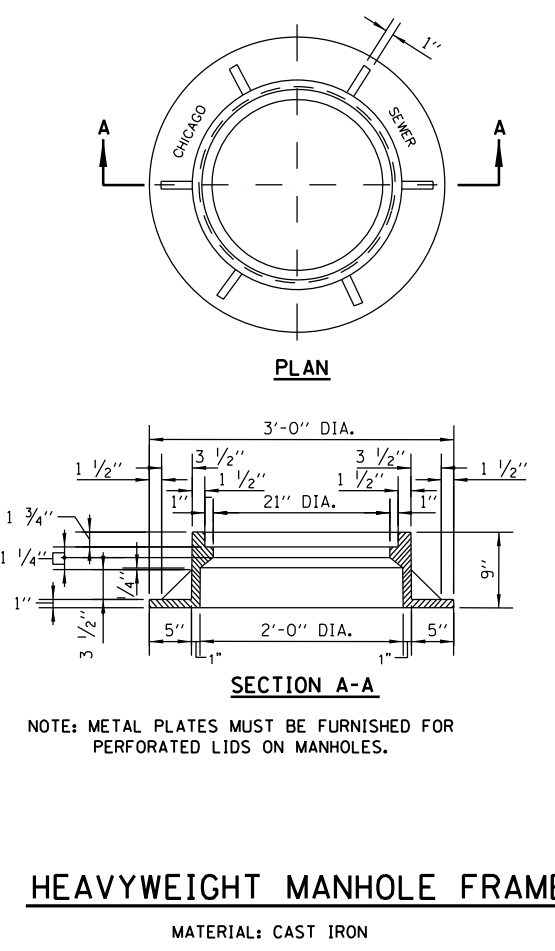
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT STANDARD DETAILS

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

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

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STANDARD REVISIONS	
DATE	DESCRIPTION
9/19/17	Approved

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN: SBR DESIGNED: CD, CC, SO CHECKED: CD, CC, SO REVIEWED: SBR	A.3
MANHOLE LIDS AND FRAMES		OF	
F.A.I. R.T.E.		COUNTY	TOTAL SHEETS
90/94/290	SECTION	COOK	1972
CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM)		CONTRACT NO. 60X93	
STANDARD DETAILS		ILLINOIS FED. AID PROJECT	



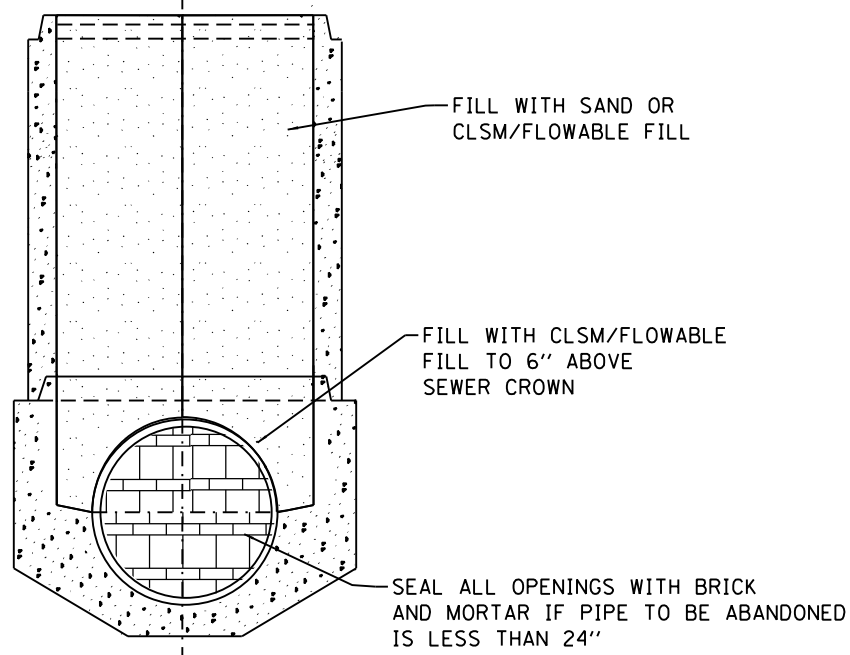
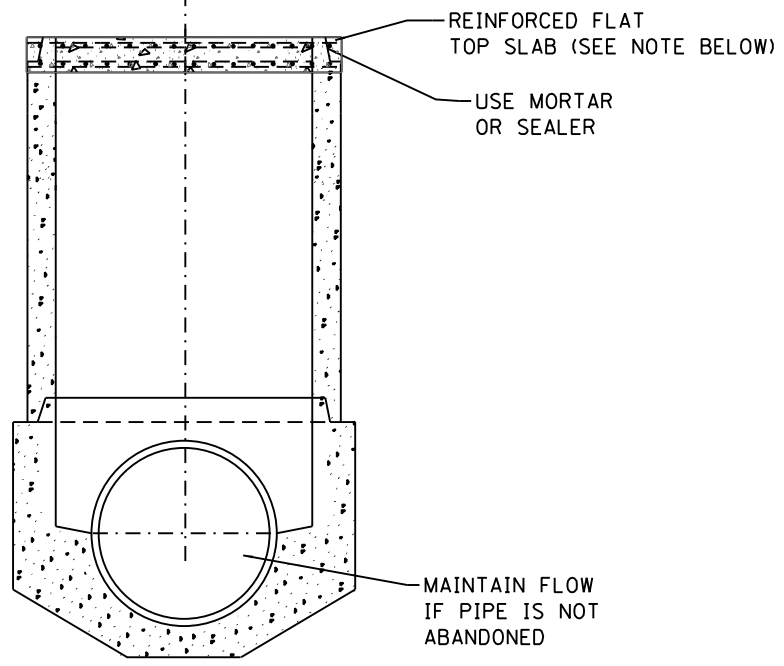
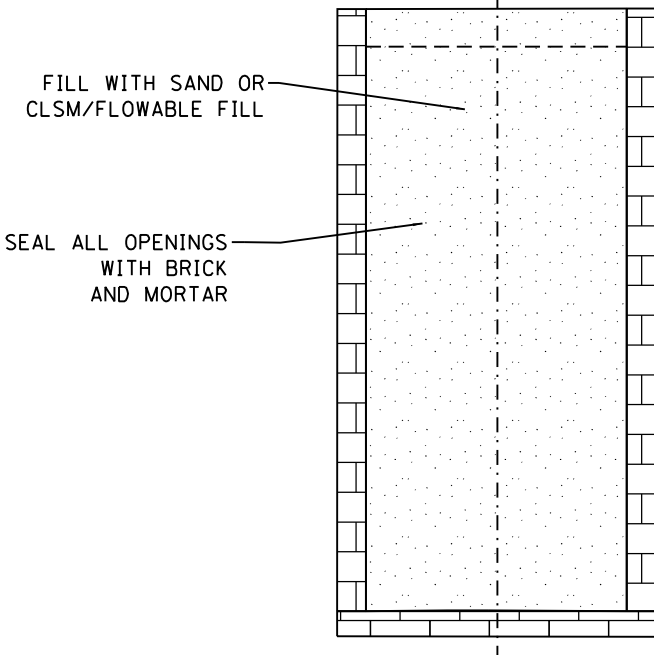
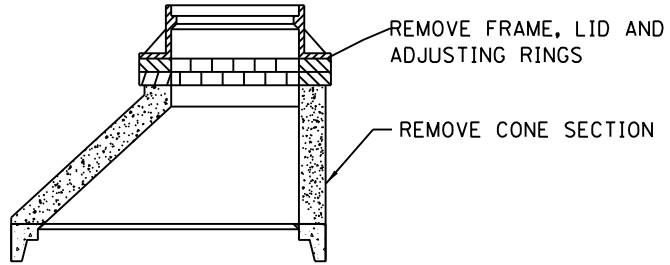
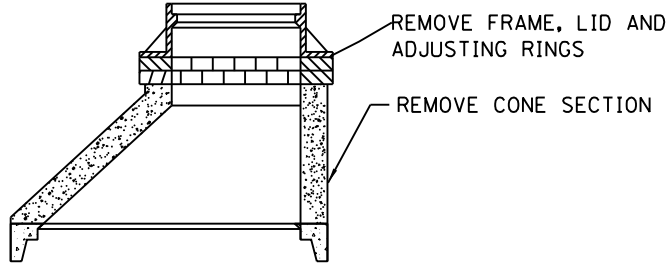
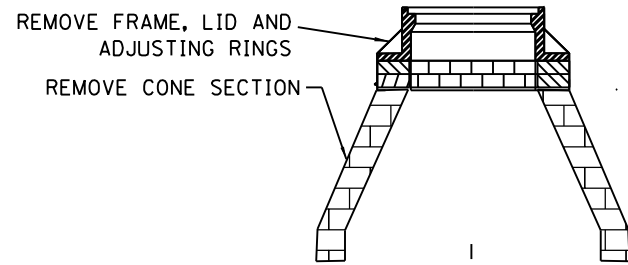
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DESIGNED -	REVISED -
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DATE - 7/30/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

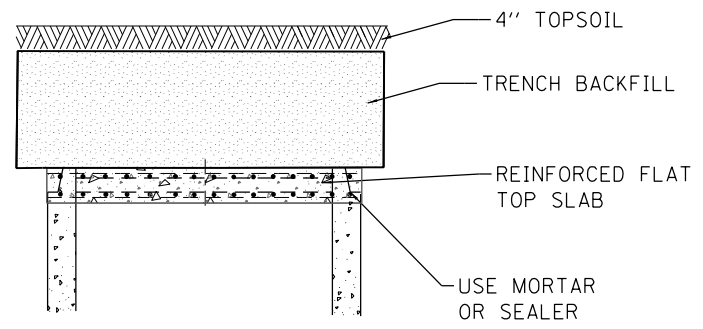
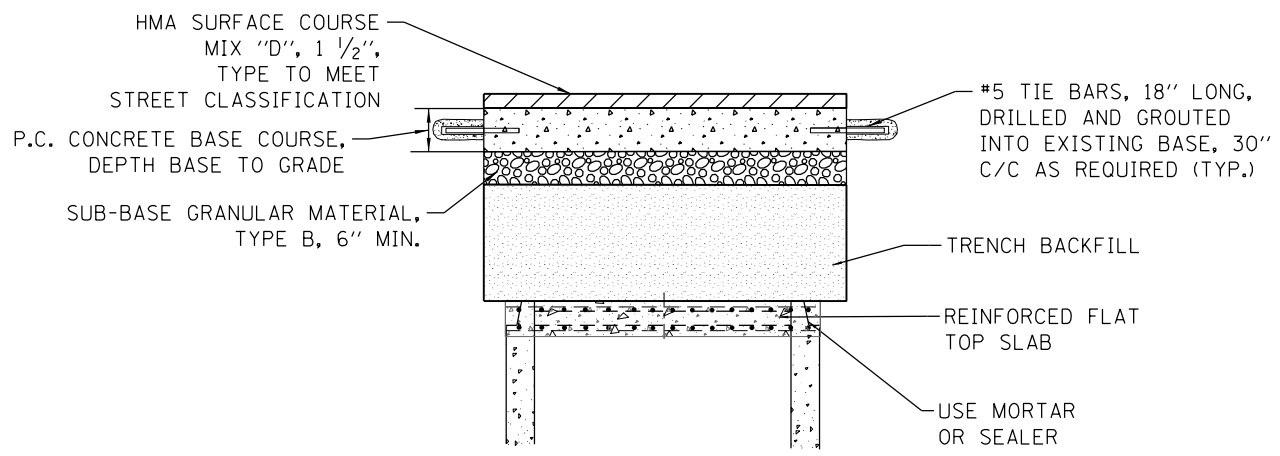
CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM)  
STANDARD DETAILS

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



**ABANDON CATCH BASIN**

**ABANDON MANHOLES**



**IN PAVEMENT AREA**

**IN LANDSCAPE AREA**

NOTE  
REINFORCED FLAT TOP SLAB.  
SEE IDOT STD. 602601-03 OR CURRENT  
MODIFIED WITH NO ACCESS HOLE

STANDARD REVISIONS	
DATE	DESCRIPTION
10/15/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES			
ABANDONED SEWER STRUCTURE DETAILS			

DRAWN: SDB	A.23
DESIGNED: SDB	
CHECKED: SDB	
REVIEWED: SDB	



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PLOT DATE = 7/26/2018

DESIGNED -	REVISOR -
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CHECKED -	REVISION -
DATE - 7/30/2018	REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM)  
STANDARD DETAILS

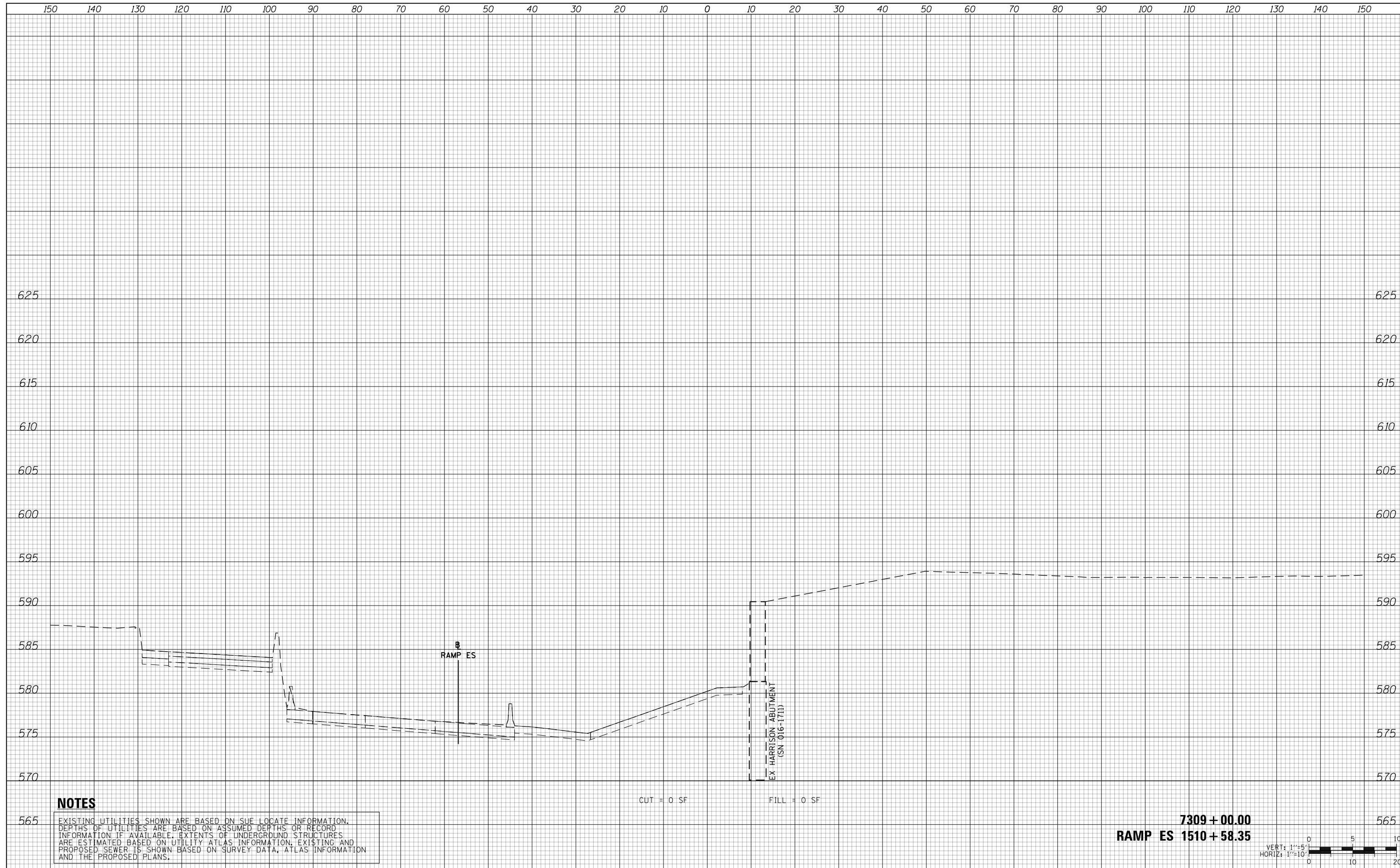
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
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NOTE BOOK	
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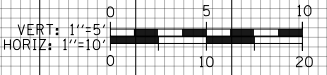


**NOTES**

EXISTING UTILITIES SHOWN ARE BASED ON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED ON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED BASED ON UTILITY ATLAS INFORMATION, EXISTING AND PROPOSED SEWER IS SHOWN BASED ON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

CUT = 0 SF      FILL = 0 SF

**7309 + 00.00**  
**RAMP ES 1510 + 58.35**



D:\160X93-SHT-XS-TAY-EB-Phase-1.dgn	DESIGNED - MSB	REVISED -
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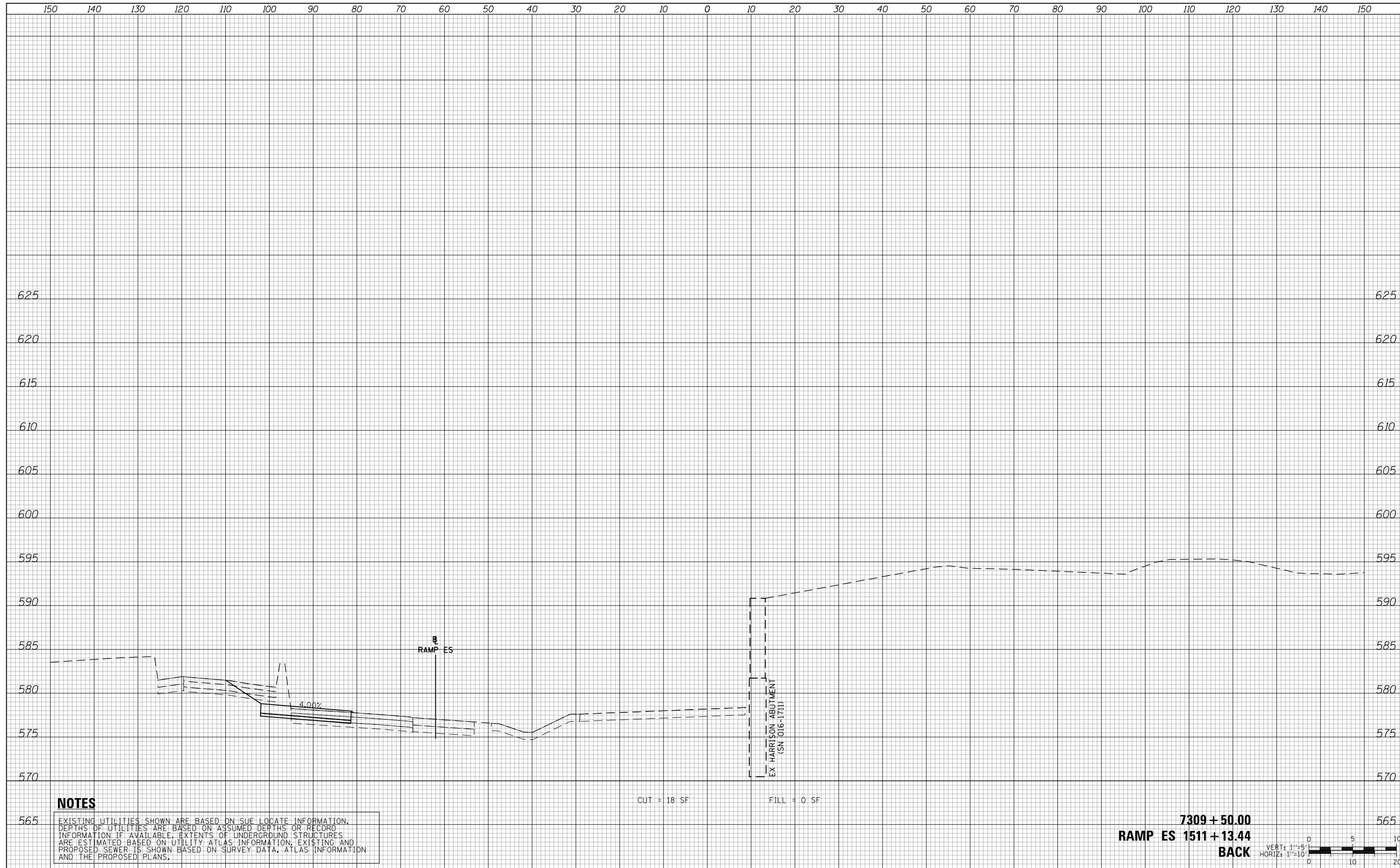
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 1</b>			
SCALE: 10:H 5:V	SHEET 1	OF 7 SHEETS	STA. 7309+00.00 TO STA. 7309+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1171
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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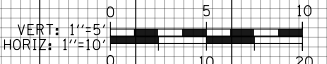
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AREAS	
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NOTE BOOK	
NO.	



**NOTES**

EXISTING UTILITIES SHOWN ARE BASED ON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED ON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED BASED ON UTILITY ATLAS INFORMATION, EXISTING AND PROPOSED SEWER IS SHOWN BASED ON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

**7309 + 50.00**  
**RAMP ES 1511 + 13.44**  
**BACK**



D160X93-SHT-XS-TAY-EB-Phase-1.dgn	DESIGNED - MSB	REVISED -
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PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 1			
SCALE: 10:H 5:V	SHEET 2 OF 7 SHEETS	STA. 7309+50.00 TO STA. 7309+50.00	

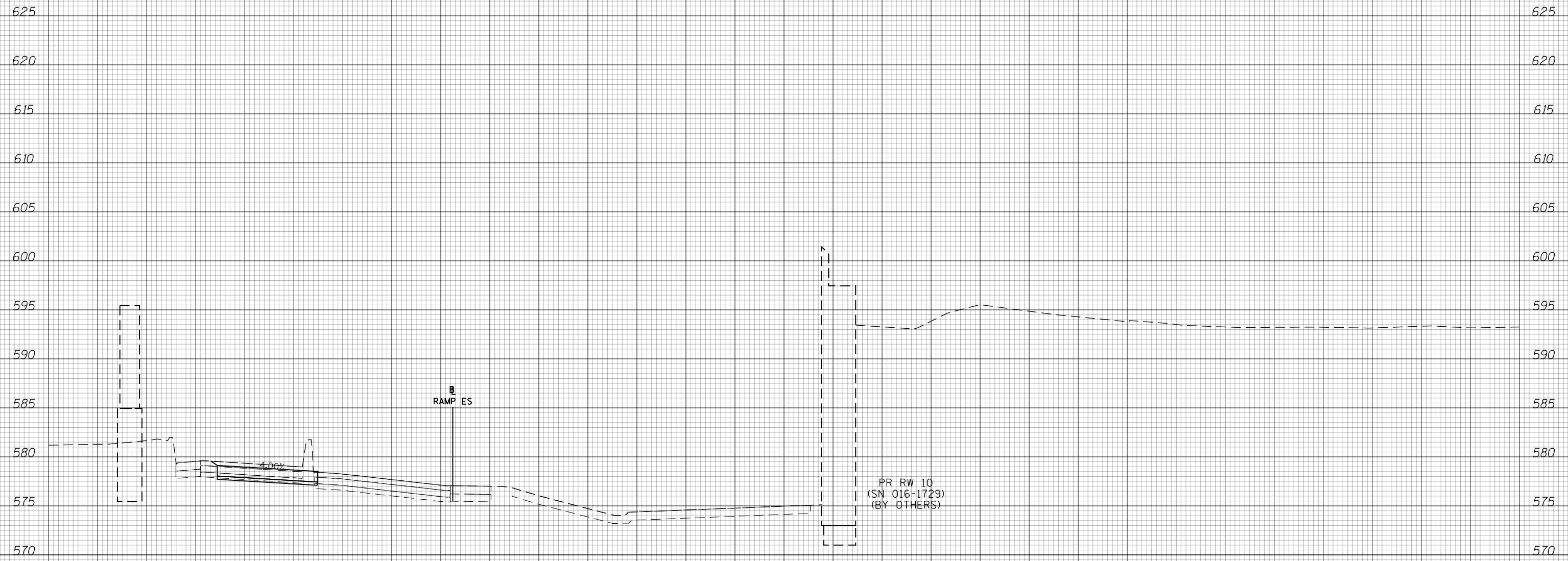
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90/94/290	2014-013R&B-R	COOK	1972	1172
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

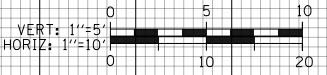
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**NOTES**

EXISTING UTILITIES SHOWN ARE BASED ON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED ON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED BASED ON UTILITY ATLAS INFORMATION, EXISTING AND PROPOSED SEWER IS SHOWN BASED ON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

**7310 + 00.00**  
**RAMP ES 1511 + 69.02**



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PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

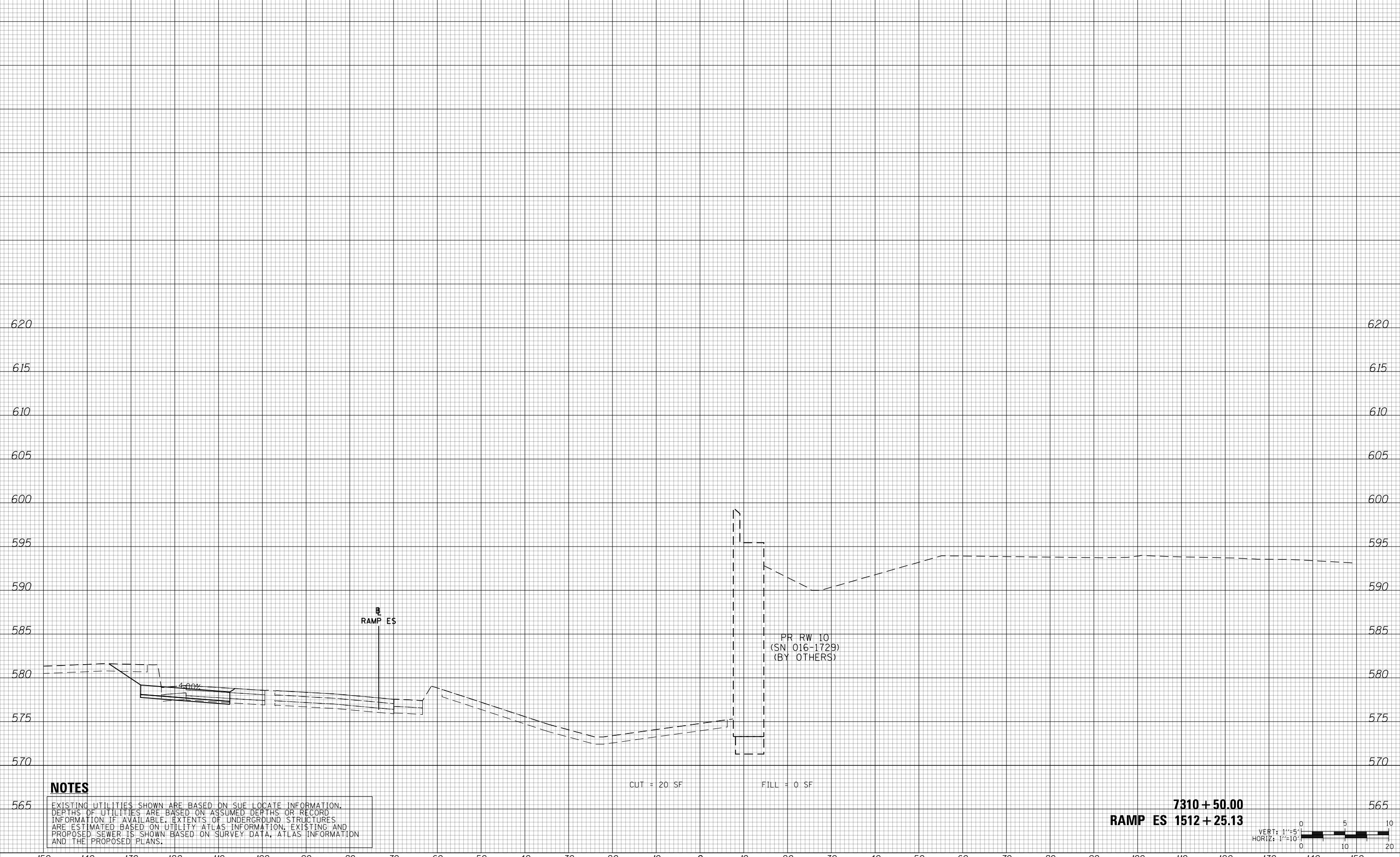
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<b>EB TAYLOR EXIT RAMP - STAGE 1</b>			
SCALE: 10:H 5:V	SHEET 3	OF 7 SHEETS	STA. 7310+00.00 TO STA. 7310+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1173
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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

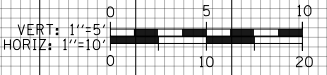


**NOTES**

EXISTING UTILITIES SHOWN ARE BASED ON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED ON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED BASED ON UTILITY ATLAS INFORMATION, EXISTING AND PROPOSED SEWER IS SHOWN BASED ON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

CUT = 20 SF      FILL = 0 SF

7310 + 50.00  
RAMP ES 1512 + 25.13



D160X93-SHT-XS-TAY-EB-Phase-1.dgn	DESIGNED - MSB	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 1			
SCALE: 10:H 5:V	SHEET 4	OF 7 SHEETS	STA. 7310+50.00 TO STA. 7310+50.00

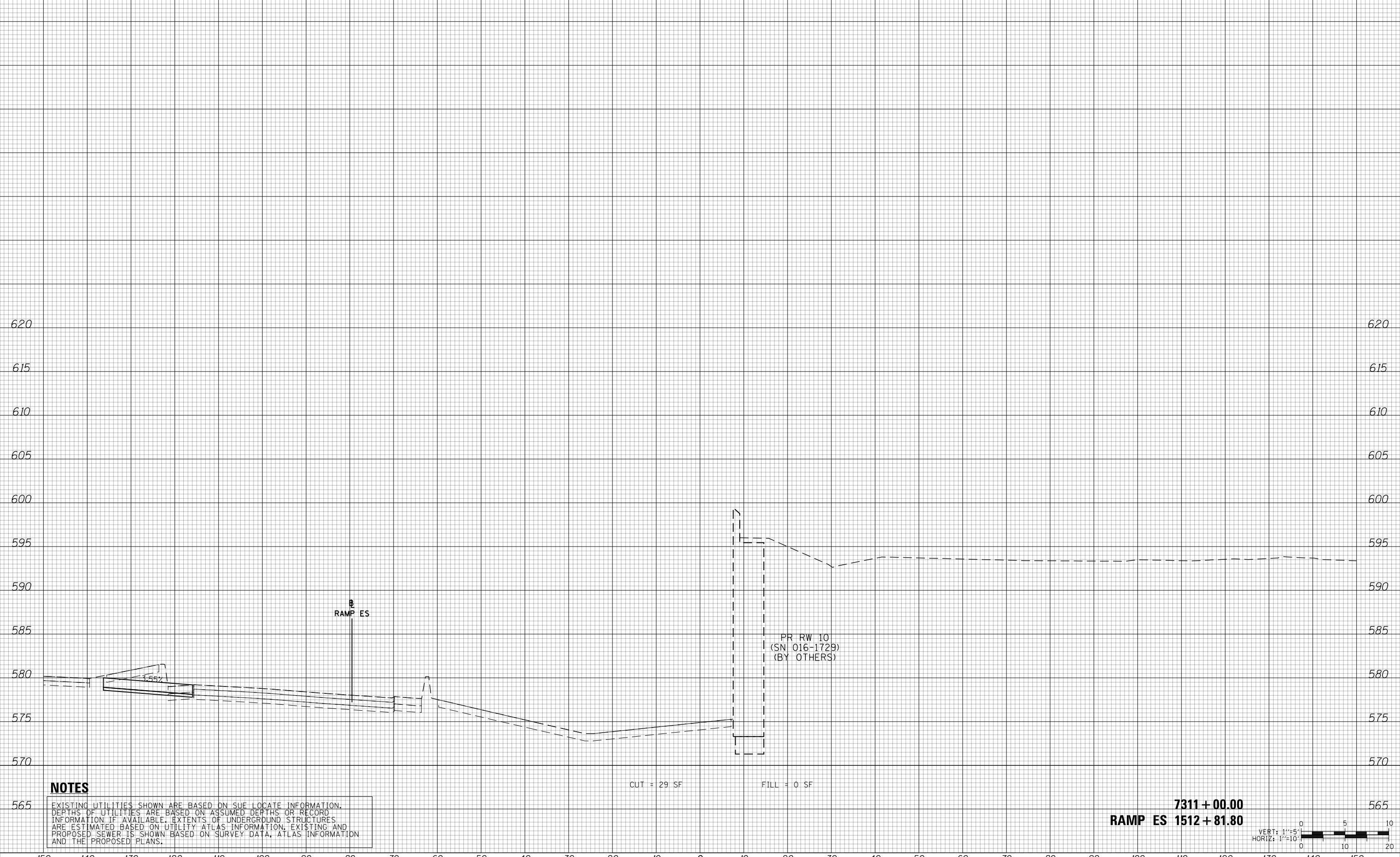
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1174
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

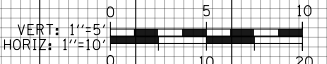
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NOTE BOOK NO.	

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



**NOTES**

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D:\60X93-SHT-XS-TAY-EB-Phase-1.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 1</b>			
SCALE: 10:H 5:V	SHEET 5	OF 7 SHEETS	STA. 7311+00.00 TO STA. 7311+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1175
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

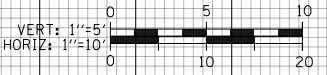
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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**7311 + 50.00**  
**RAMP ES 1513 + 37.51**



D160X93-SHT-XS-TAY-EB-Phase-1.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

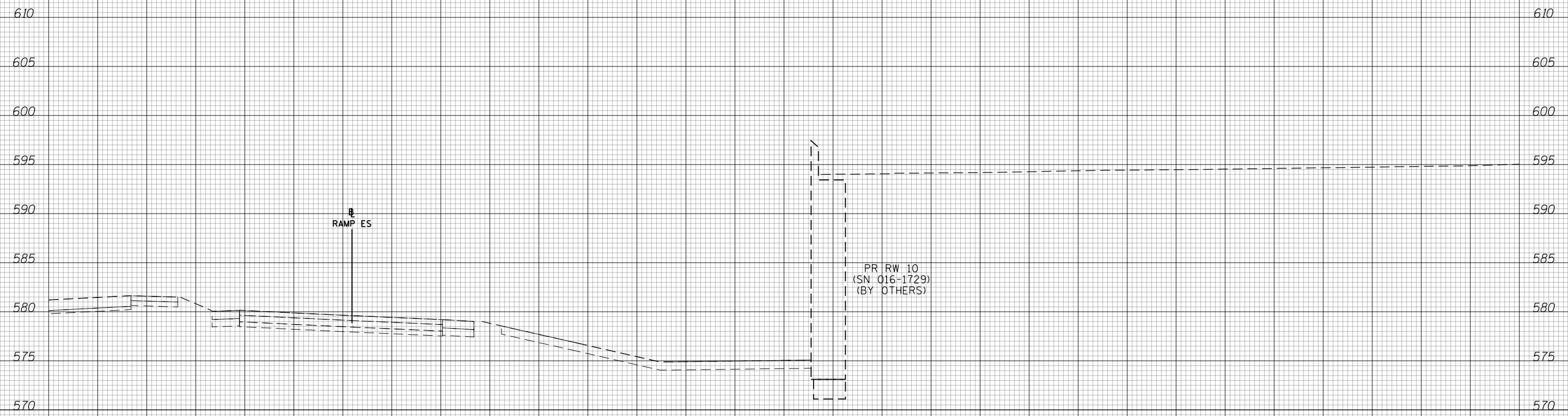
<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 1</b>			
SCALE: 10:H 5:V	SHEET 6	OF 7 SHEETS	STA. 7311+50.00 TO STA. 7311+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1176
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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



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**7312 + 00.00**  
**RAMP ES 1513 + 89.37**



D160X93-SHT-XS-TAY-EB-Phase-1.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

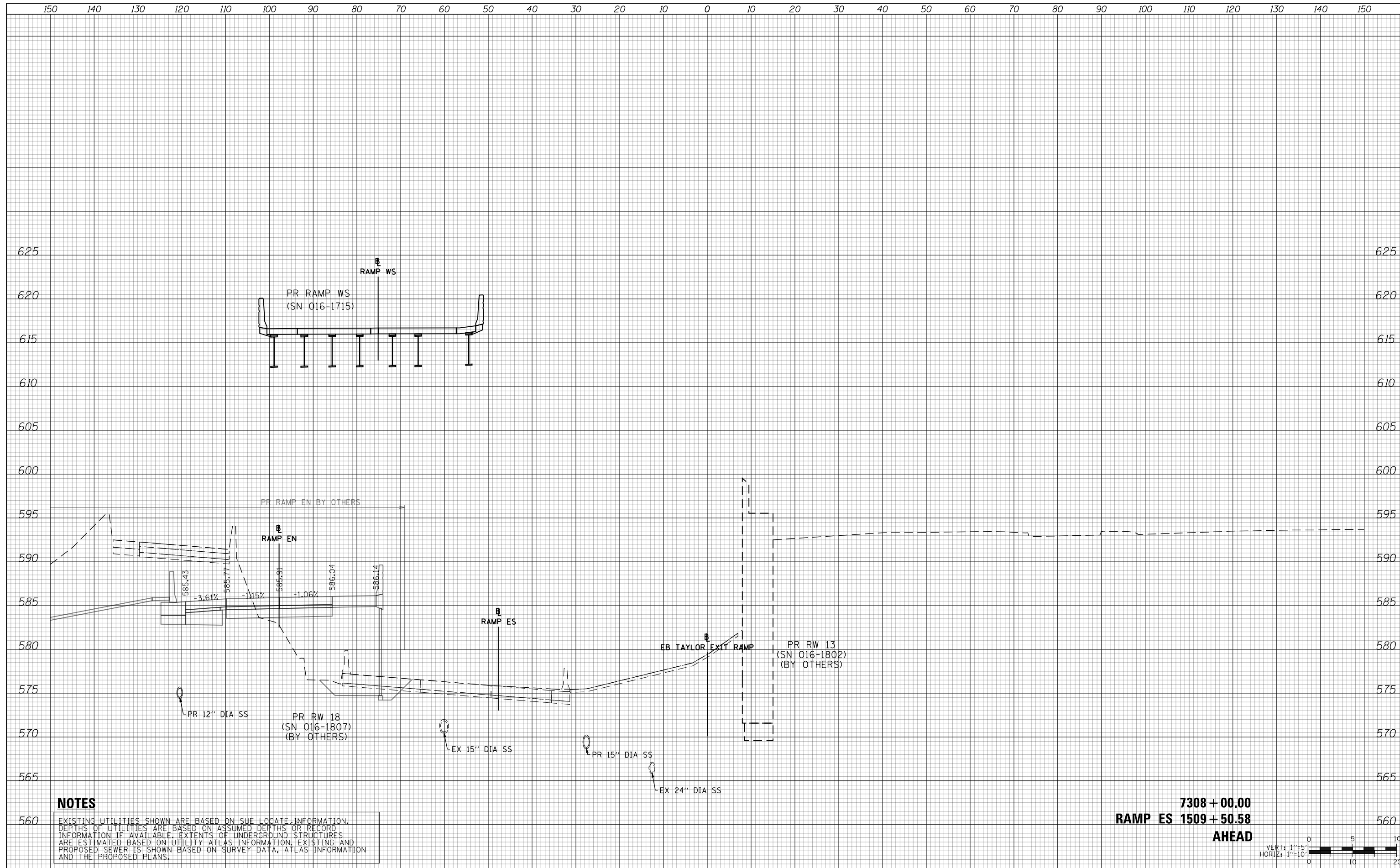
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 1</b>			
SCALE: 10:H 5:V	SHEET 7	OF 7 SHEETS	STA. 7312+00.00 TO STA. 7312+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1177
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

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

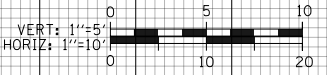
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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**7308 + 00.00**  
**RAMP ES 1509 + 50.58**  
**AHEAD**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

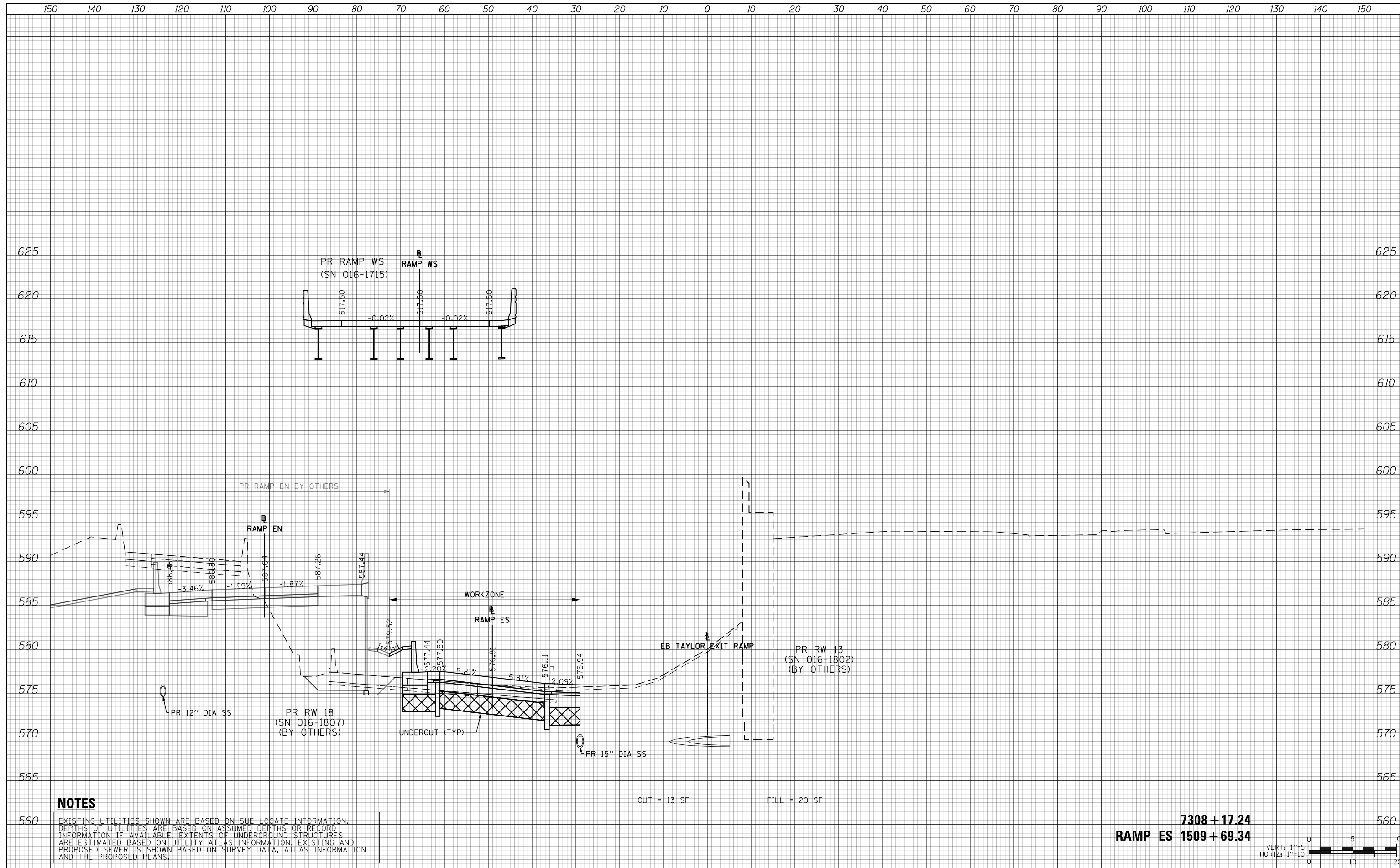
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10'H 5'V	SHEET 1	OF 32 SHEETS	STA. 7308+00.00 TO STA. 7308+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1178
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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

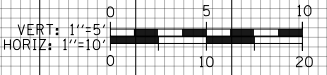


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CUT = 13 SF      FILL = 20 SF

**7308 + 17.24**  
**RAMP ES 1509 + 69.34**



D:\60X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

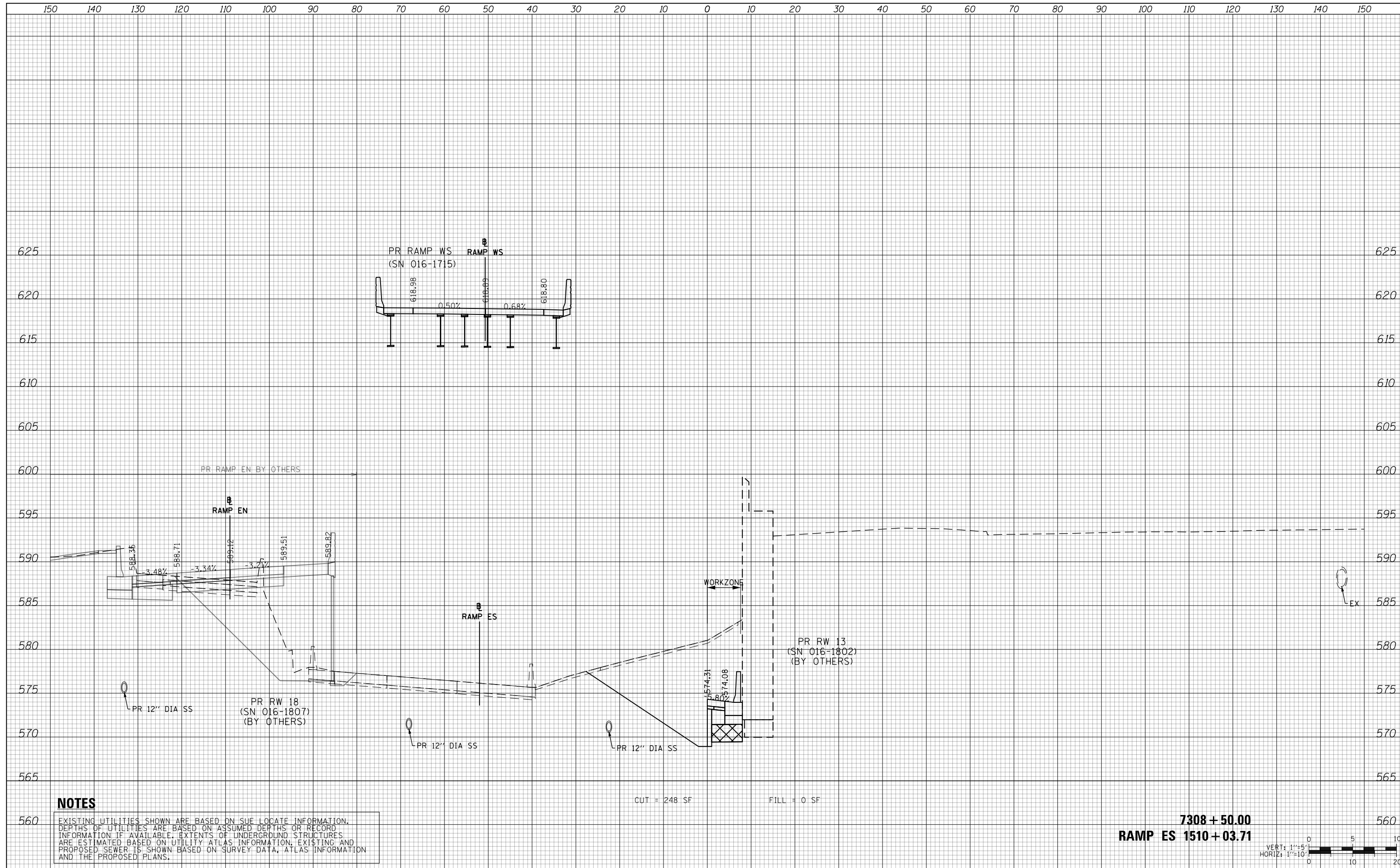
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 2</b>			
SCALE: 10'H 5'V	SHEET 2	OF 32 SHEETS	STA. 7308+17.24 TO STA. 7308+17.24

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1179
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

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

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

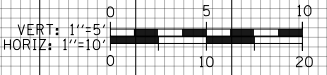


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CUT = 248 SF      FILL = 0 SF

**7308 + 50.00**  
**RAMP ES 1510 + 03.71**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

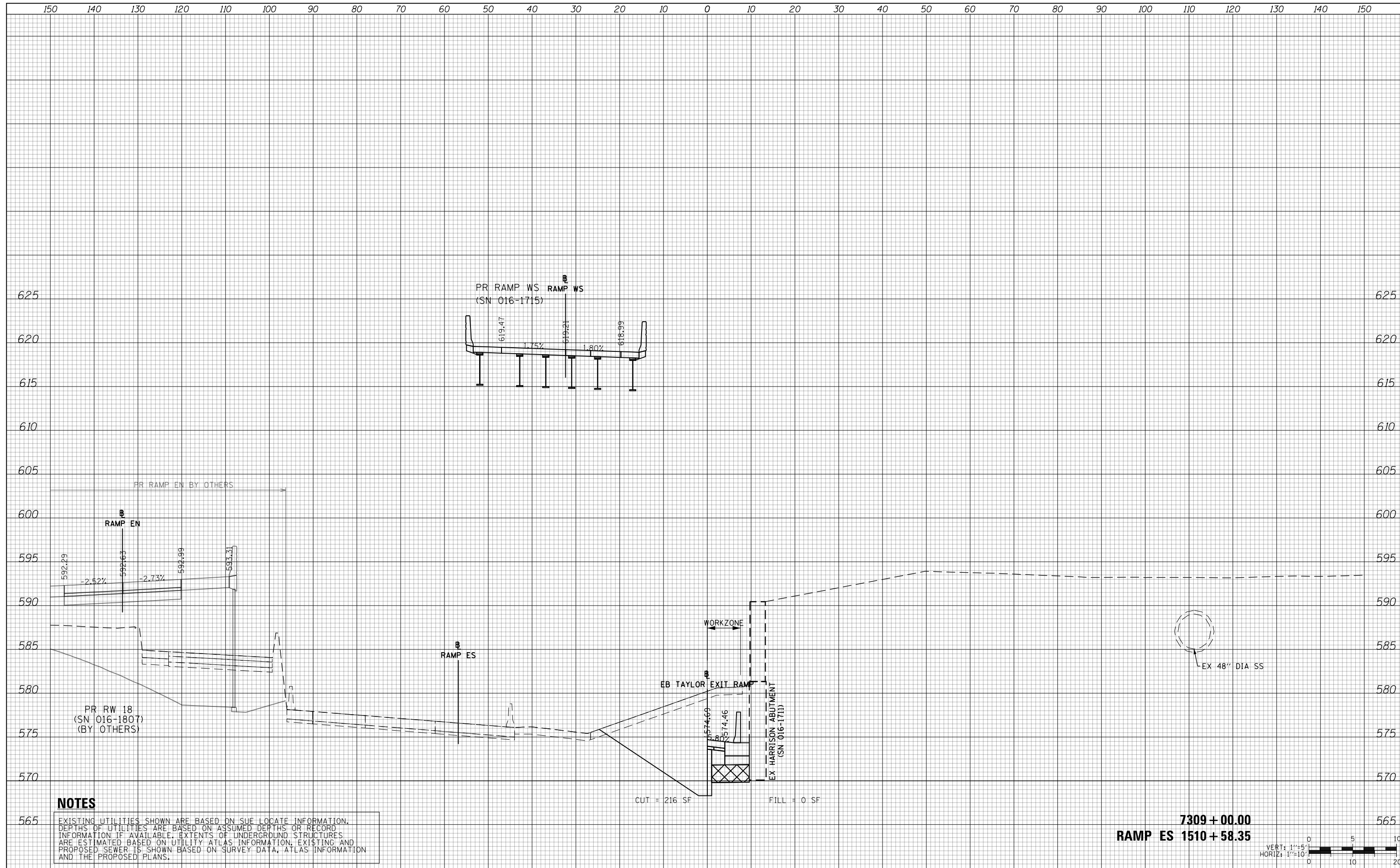
CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10'H 5'V	SHEET 3	OF 32 SHEETS	STA. 7308+50.00 TO STA. 7308+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1180
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				



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

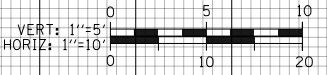
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**NOTES**

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**7309 + 00.00**  
**RAMP ES 1510 + 58.35**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

**CROSS SECTIONS**  
**EB TAYLOR EXIT RAMP - STAGE 2**

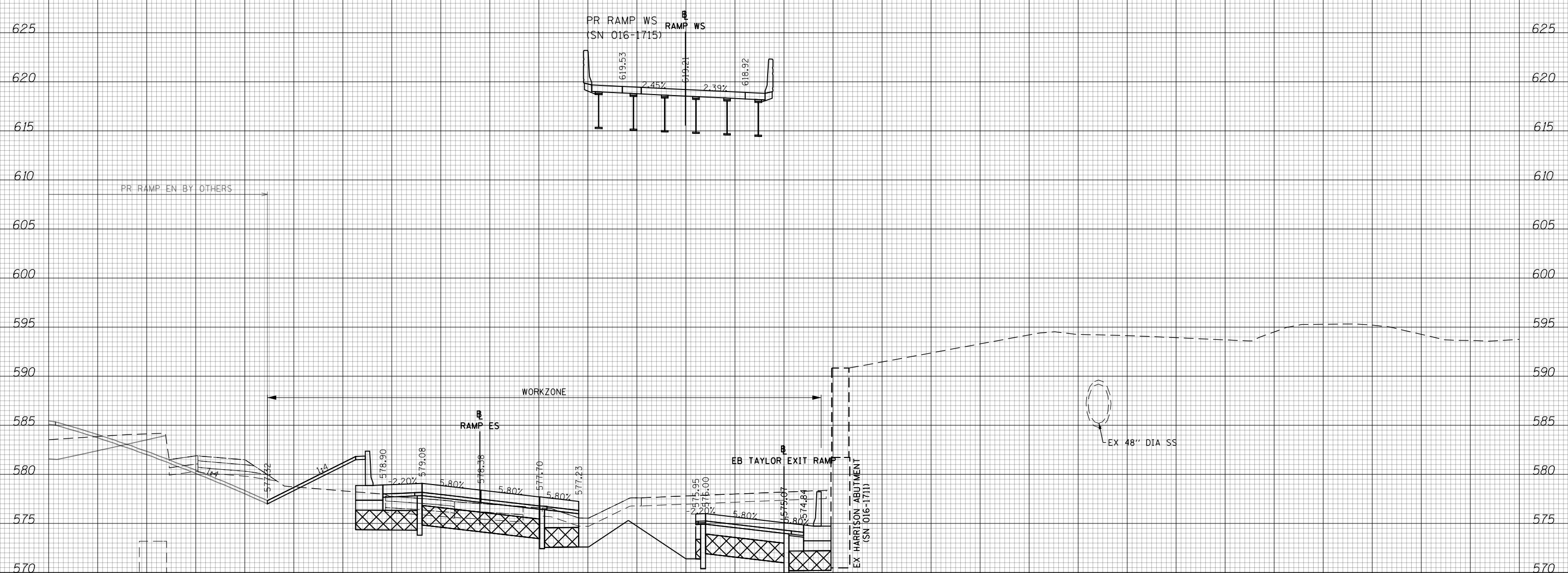
SCALE: 10:H 5:V SHEET 4 OF 32 SHEETS STA. 7309+00.00 TO STA. 7309+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1181
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

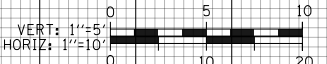


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CUT = 140 SF      FILL = 55 SF

**7309 + 50.00**  
**RAMP ES 1511 + 13.44**  
**BACK**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

**CROSS SECTIONS**  
**EB TAYLOR EXIT RAMP - STAGE 2**

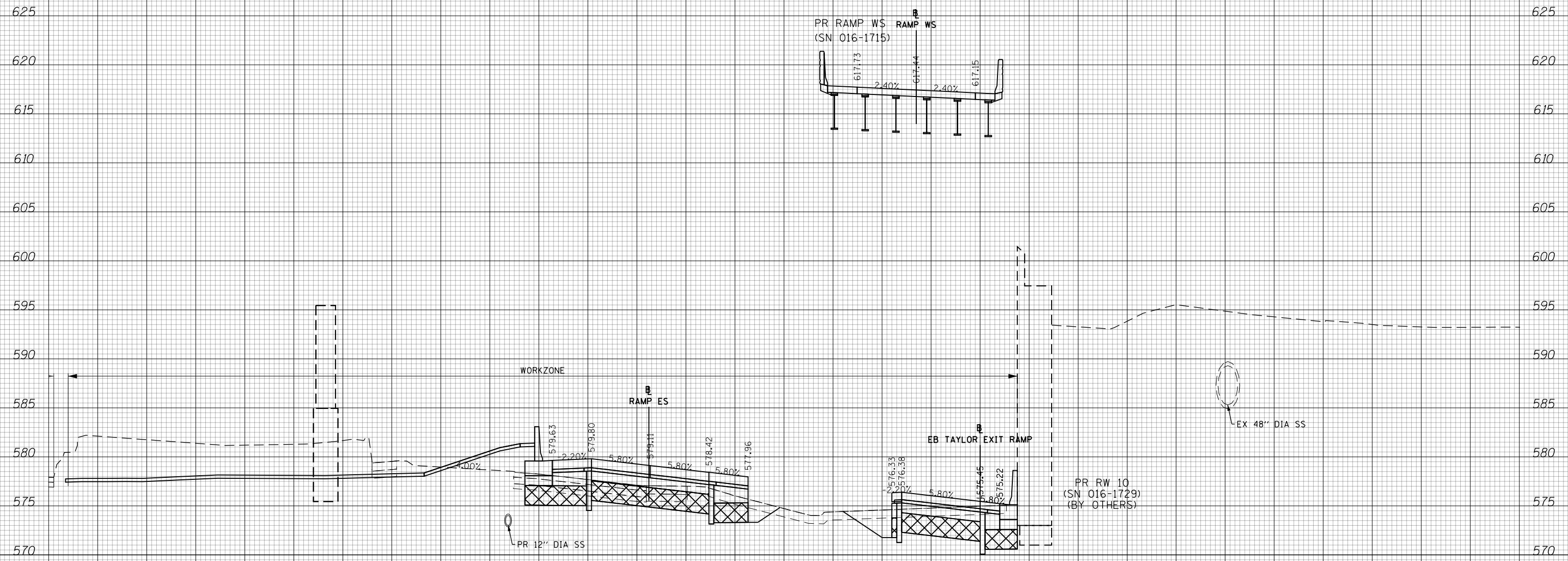
SCALE: 10:H 5:V      SHEET 5 OF 32 SHEETS      STA. 7309+50.00 TO STA. 7309+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1182
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

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

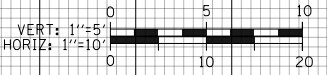
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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CUT = 228 SF      FILL = 38 SF

7310 + 00.00  
 RAMP ES 1511 + 69.02



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

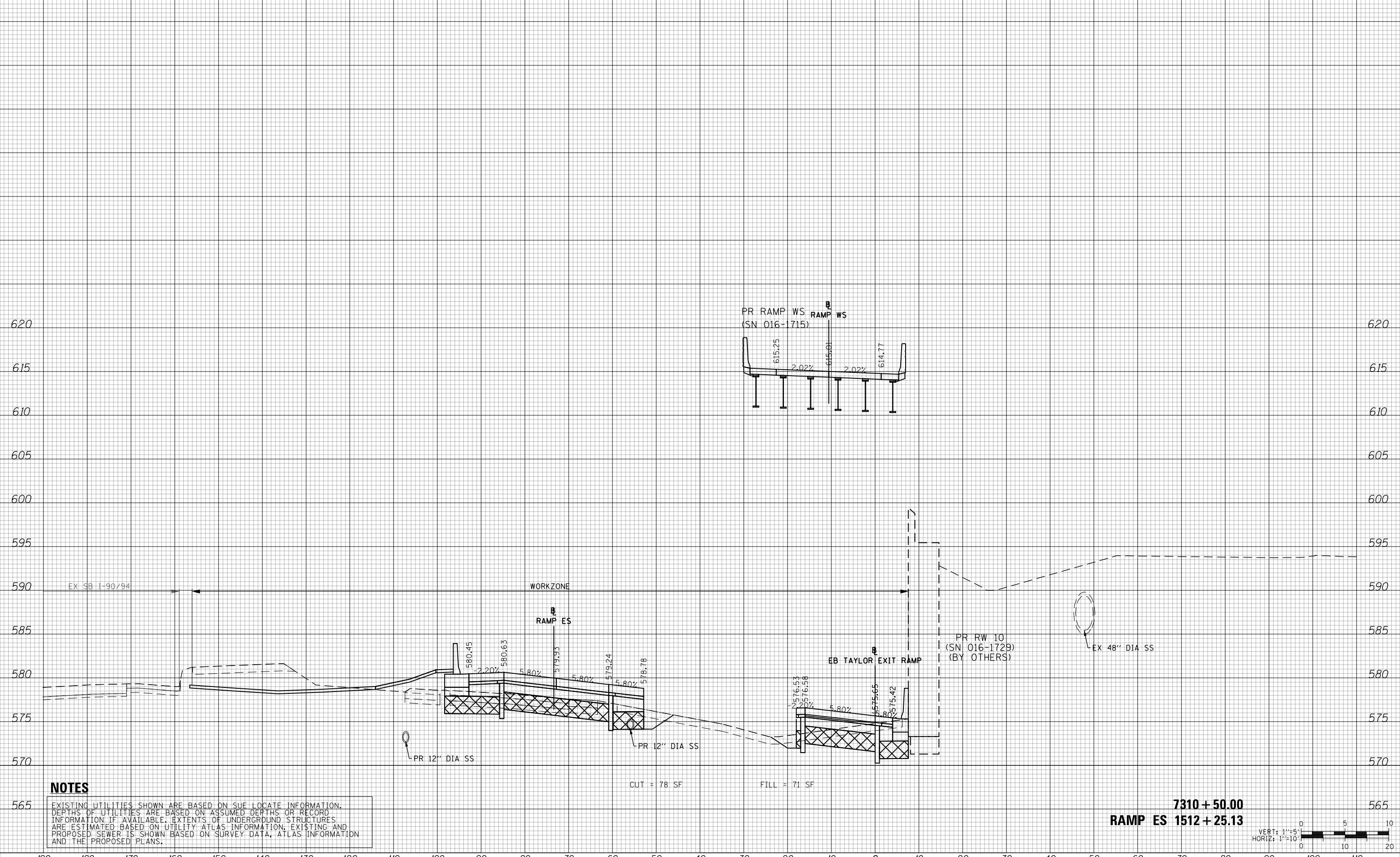
CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 6	OF 32 SHEETS	STA. 7310+00.00 TO STA. 7310+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1183
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE



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CUT = 78 SF      FILL = 71 SF

**7310 + 50.00**  
**RAMP ES 1512 + 25.13**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

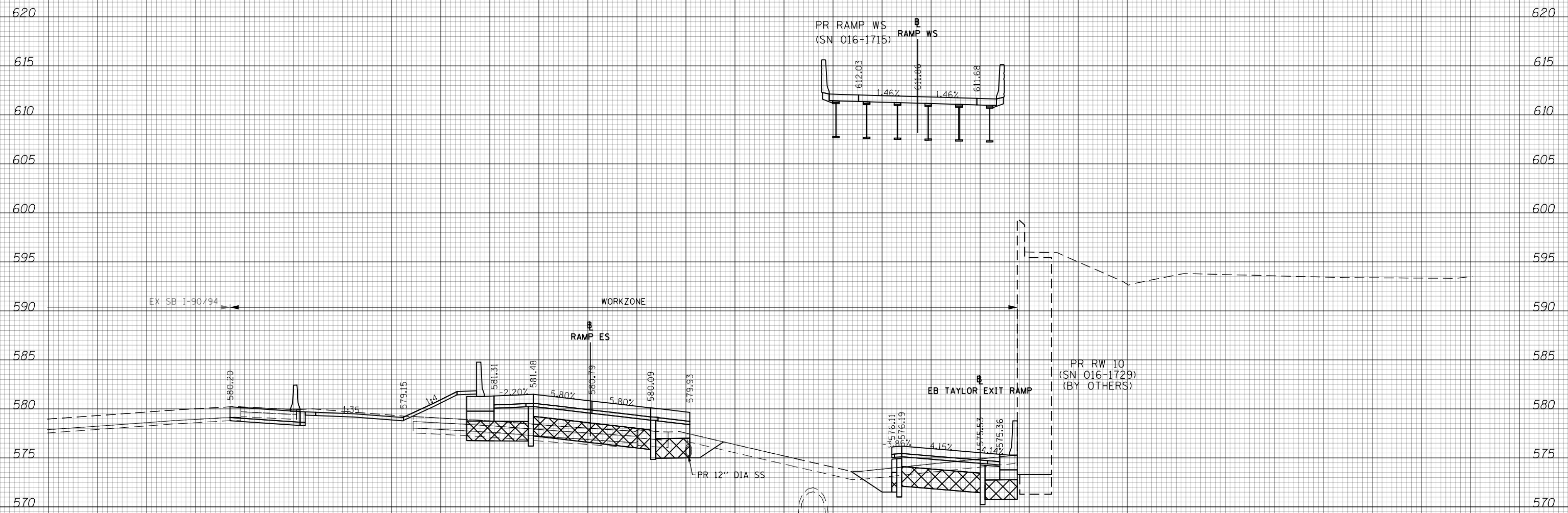
<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 2</b>			
SCALE: 10H:5V	SHEET 7	OF 32 SHEETS	STA. 7310+50.00 TO STA. 7310+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1184
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

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

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

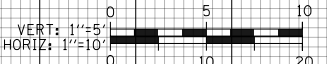


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CUT = 17 SF  
FILL = 70 SF

**7311 + 00.00**  
**RAMP ES 1512 + 81.80**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

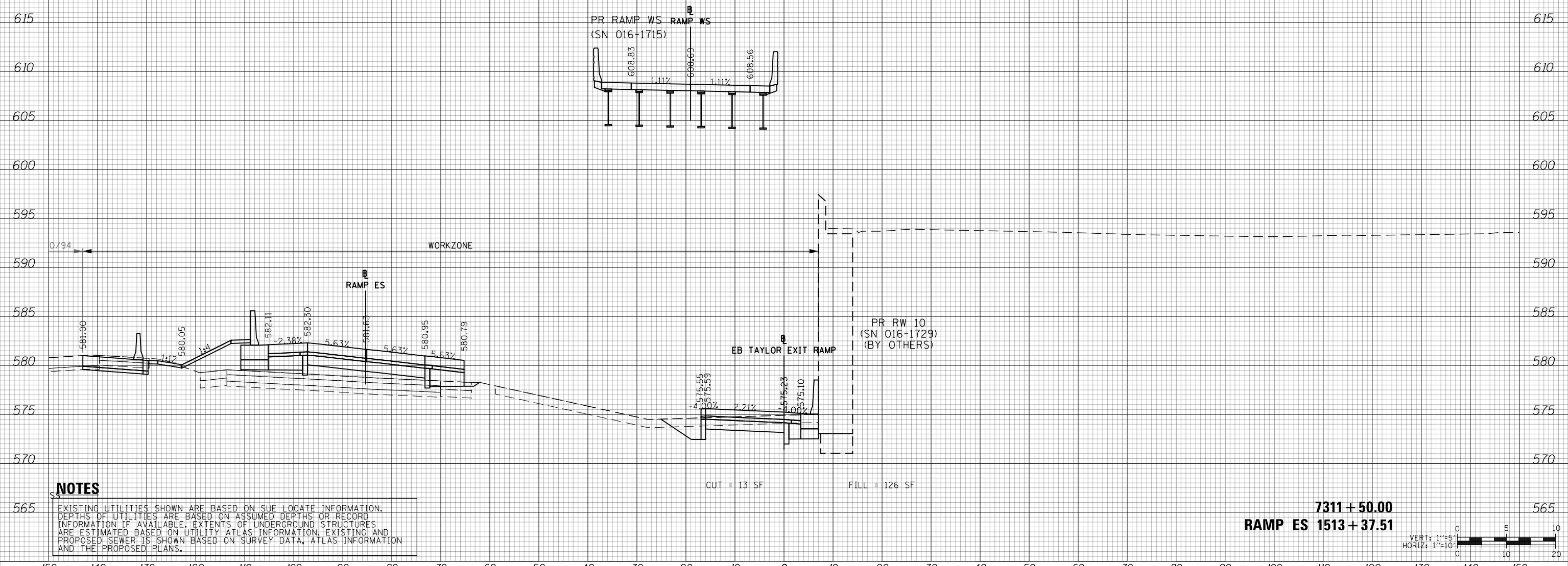
CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10'H 5'V	SHEET 8	OF 32 SHEETS	STA. 7311+00.00 TO STA. 7311+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1185
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

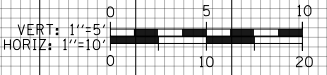
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



**NOTES**

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**7311 + 50.00**  
**RAMP ES 1513 + 37.51**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

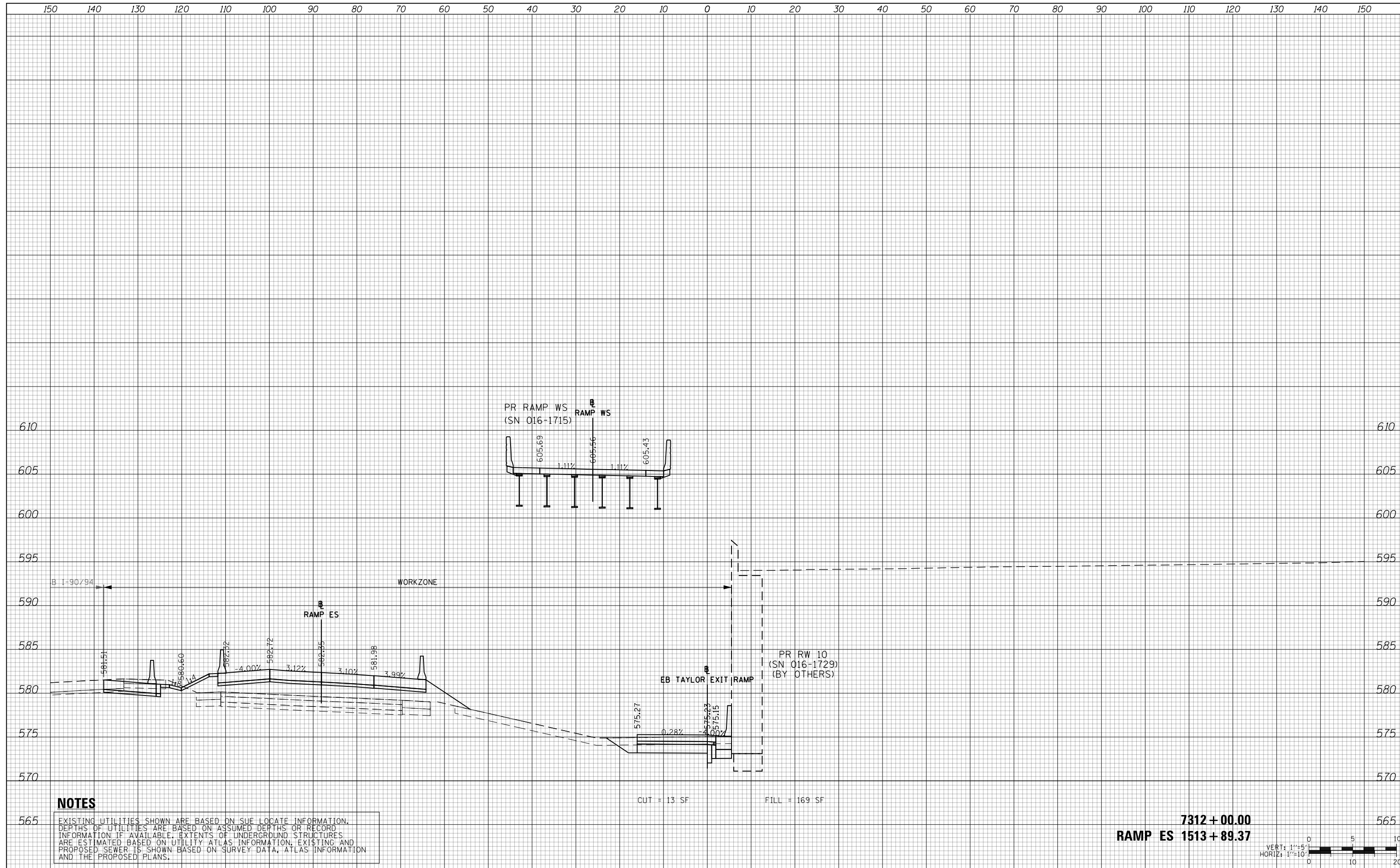
**CROSS SECTIONS**  
**EB TAYLOR EXIT RAMP - STAGE 2**

SCALE: 10:H 5:V SHEET 9 OF 32 SHEETS STA. 7311+50.00 TO STA. 7311+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1186
CONTRACT NO. 60X93			ILLINOIS FED. AID PROJECT	

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

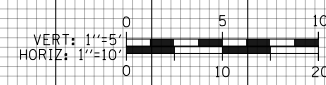
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**NOTES**

EXISTING UTILITIES SHOWN ARE BASED ON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED ON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED BASED ON UTILITY ATLAS INFORMATION, EXISTING AND PROPOSED SEWER IS SHOWN BASED ON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

**7312 + 00.00**  
**RAMP ES 1513 + 89.37**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

**CROSS SECTIONS**  
**EB TAYLOR EXIT RAMP - STAGE 2**

SCALE: 10:H 5:V SHEET 10 OF 32 SHEETS STA. 7312+00.00 TO STA. 7312+00.00

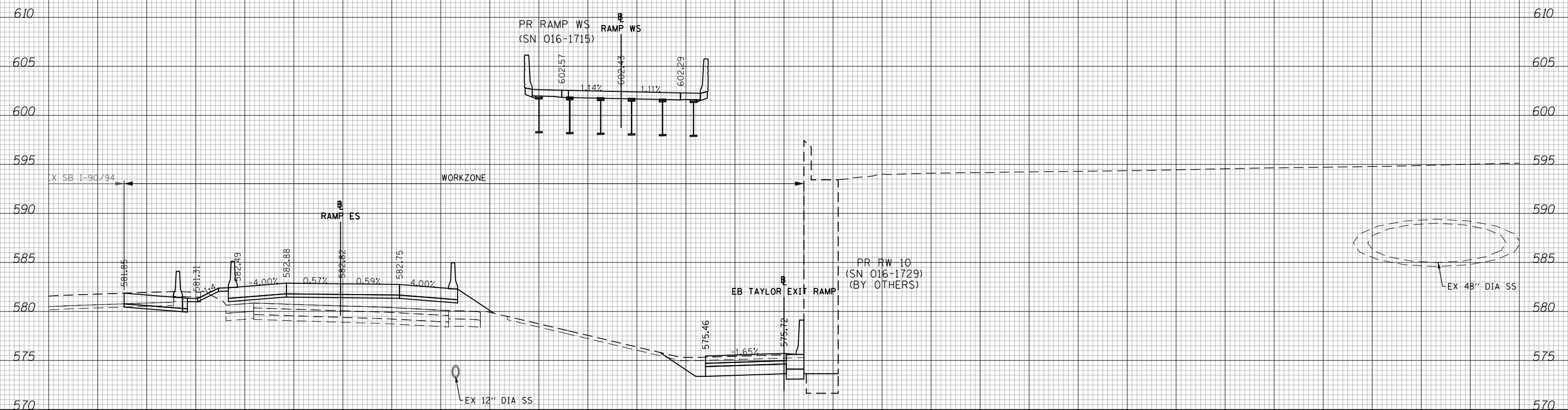
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1187
				CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

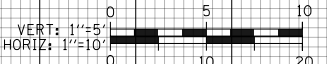


**NOTES**

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CUT = 66 SF      FILL = 137 SF

**7312 + 50.00**  
**RAMP ES 1514 + 39.40**  
**RAMP WS 1229 + 13.06**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10'H 5'V	SHEET 11	OF 32 SHEETS	STA. 7312+50.00 TO STA. 7312+50.00

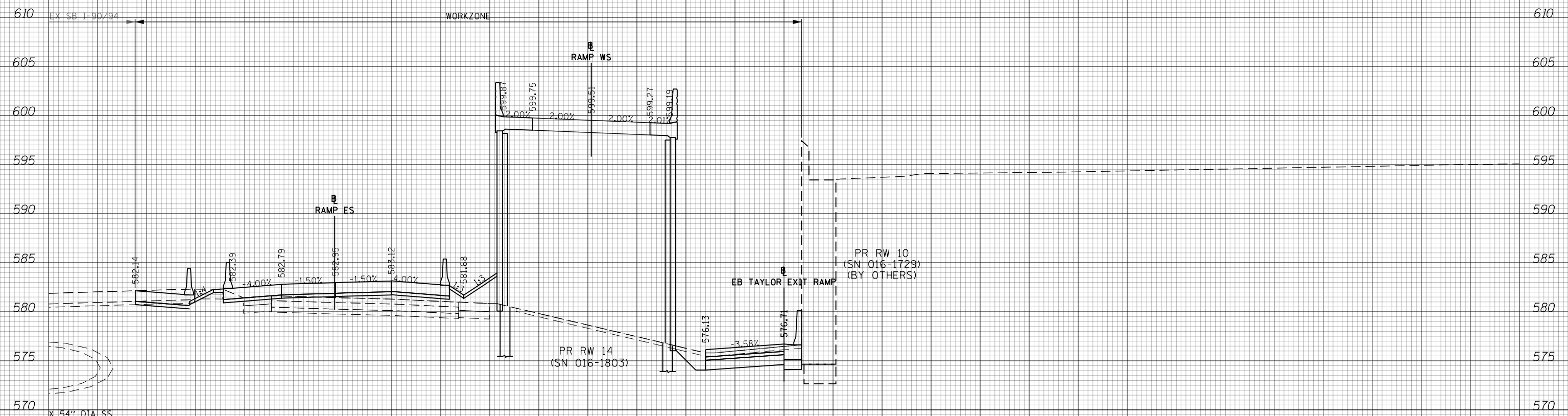
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1188
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

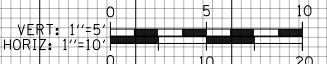
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**NOTES**

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**7313 + 00.00**  
**RAMP ES 1514 + 84.45**  
**RAMP WS 1229 + 60.19**  
**AHEAD**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

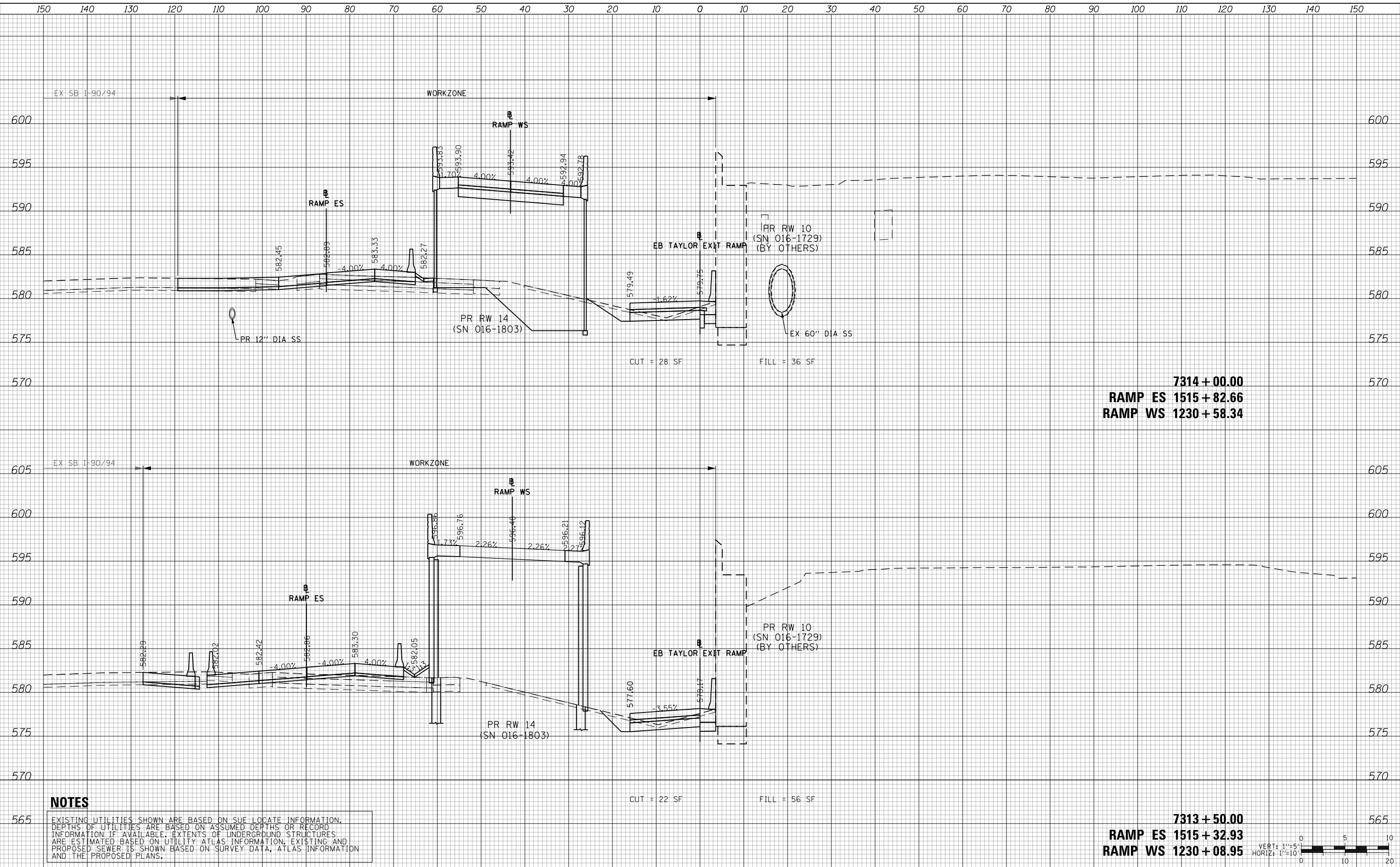
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 2</b>			
SCALE: 10:H 5:V	SHEET 12	OF 32 SHEETS	STA. 7313+00.00 TO STA. 7313+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1189
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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



7314 + 00.00  
**RAMP ES 1515 + 82.66**  
**RAMP WS 1230 + 58.34**

7313 + 50.00  
**RAMP ES 1515 + 32.93**  
**RAMP WS 1230 + 08.95**

**NOTES**

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D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

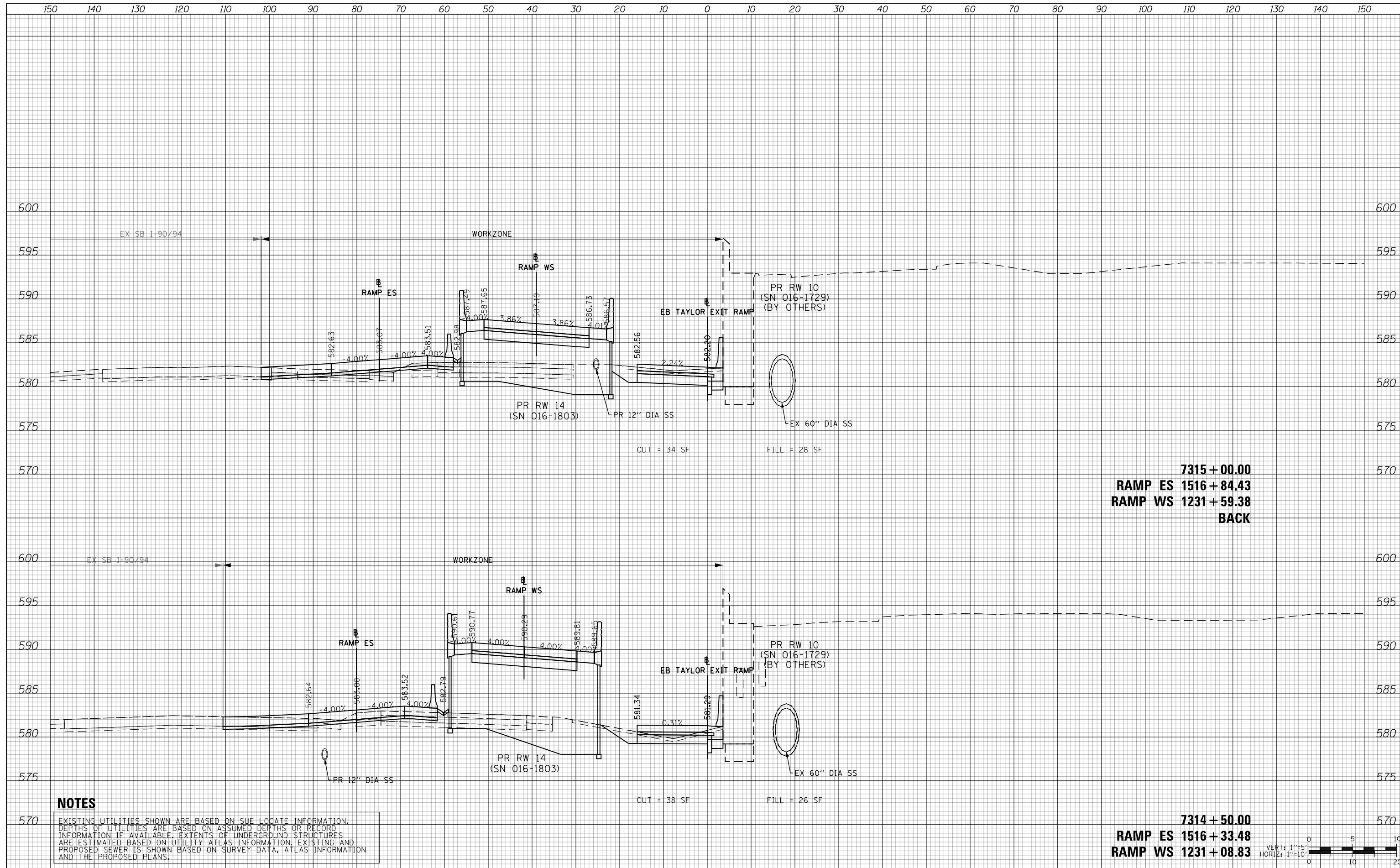
**CROSS SECTIONS  
EB TAYLOR EXIT RAMP - STAGE 2**

SCALE: 10'H 5'V SHEET 13 OF 32 SHEETS STA. 7313+50.00 TO STA. 7314+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1190
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

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

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

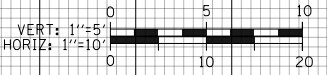


**7315 + 00.00**  
**RAMP ES 1516 + 84.43**  
**RAMP WS 1231 + 59.38**  
**BACK**

**7314 + 50.00**  
**RAMP ES 1516 + 33.48**  
**RAMP WS 1231 + 08.83**

**NOTES**

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D:\60\93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

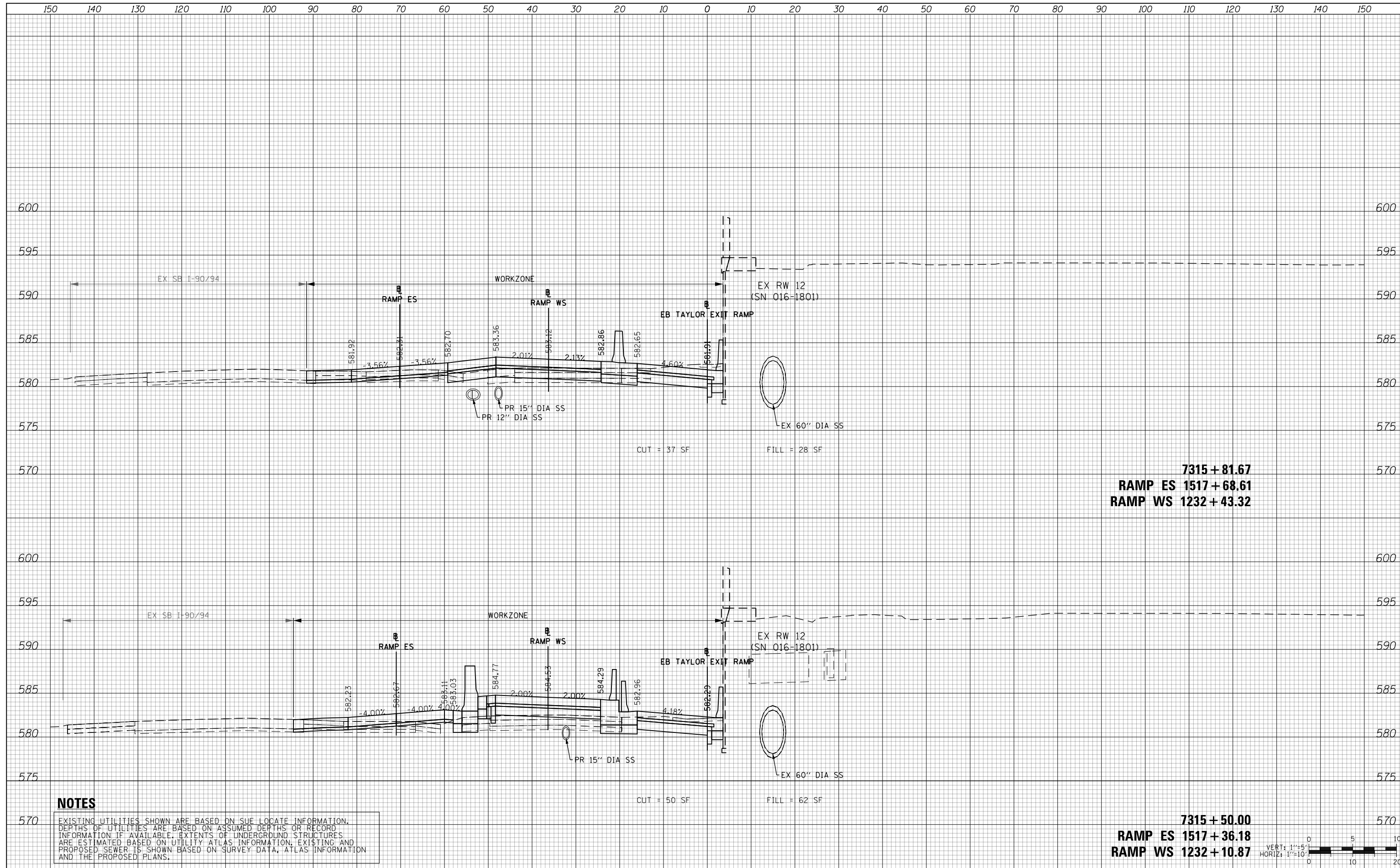
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 14	OF 32 SHEETS	STA. 7314+50.00 TO STA. 7315+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1191
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

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

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



**7315 + 81.67**  
**RAMP ES 1517 + 68.61**  
**RAMP WS 1232 + 43.32**

**7315 + 50.00**  
**RAMP ES 1517 + 36.18**  
**RAMP WS 1232 + 10.87**

**NOTES**

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D:\6093-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

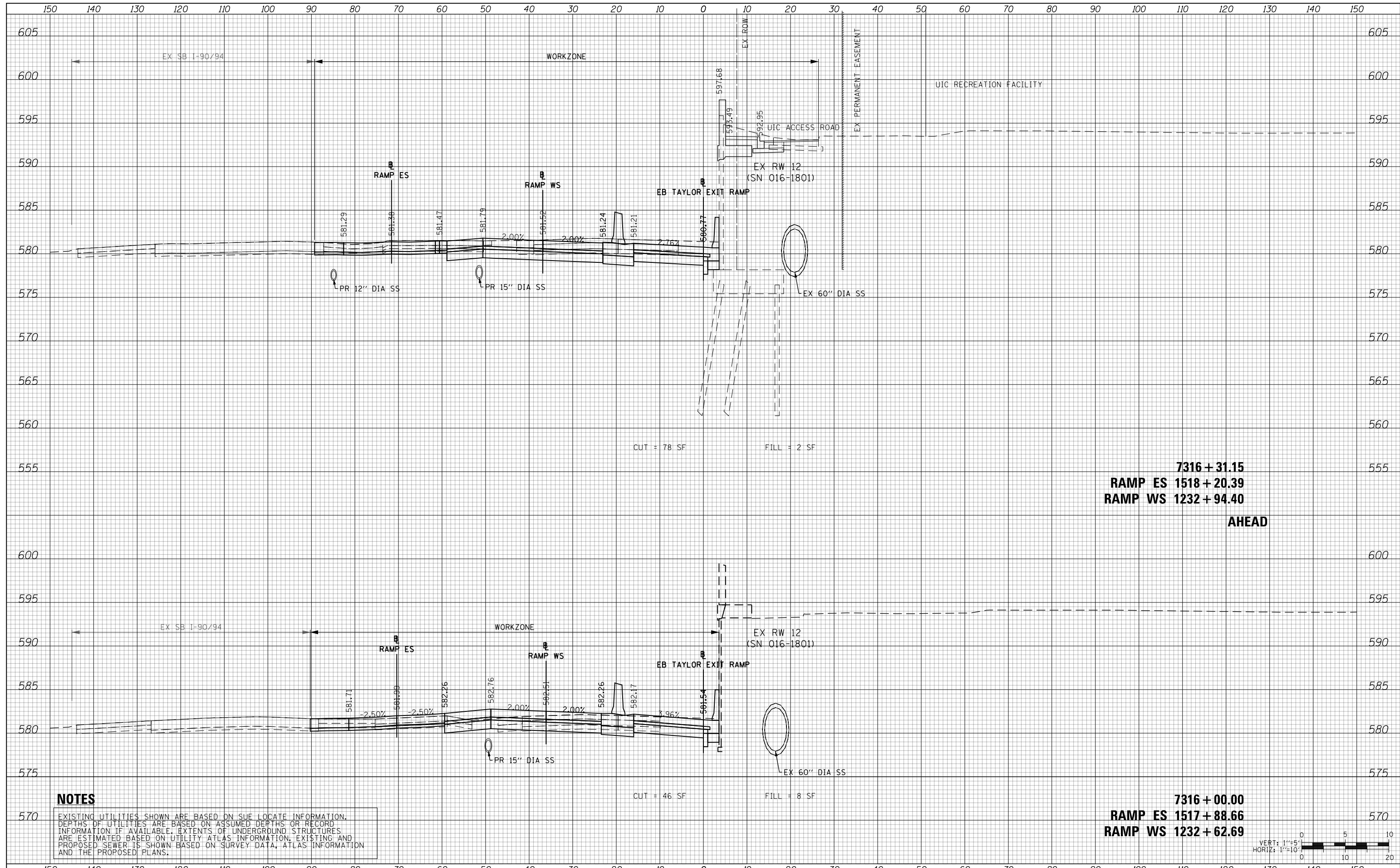
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 15	OF 32 SHEETS	STA. 7315+50.00 TO STA. 7315+81.67

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1192
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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



**7316 + 31.15**  
**RAMP ES 1518 + 20.39**  
**RAMP WS 1232 + 94.40**  
**AHEAD**

**7316 + 00.00**  
**RAMP ES 1517 + 88.66**  
**RAMP WS 1232 + 62.69**

**NOTES**

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D:\60\93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

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

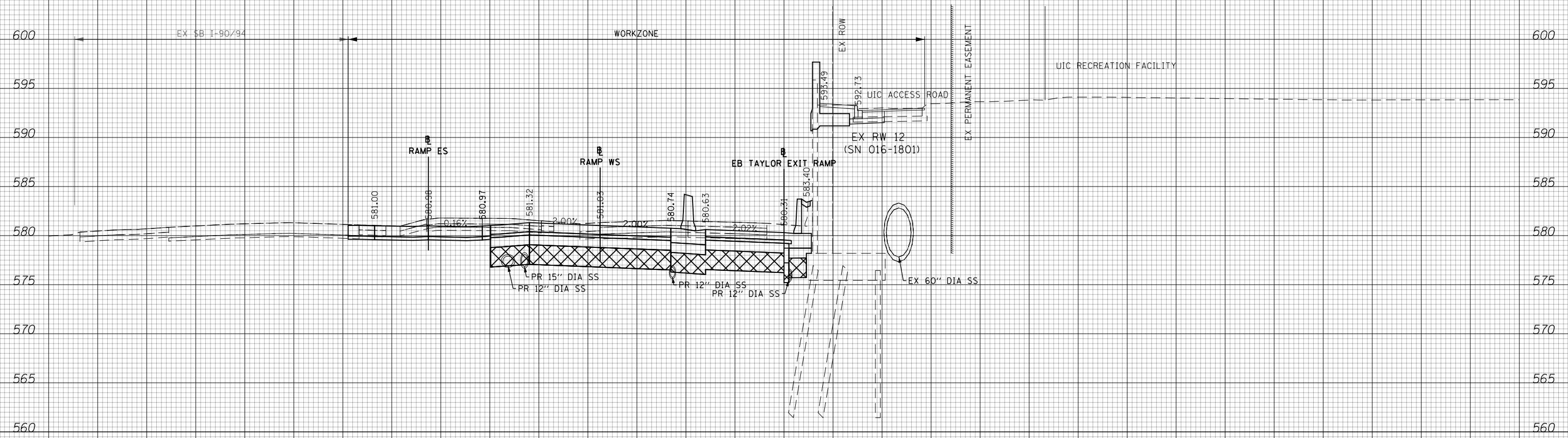
CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 16	OF 32 SHEETS	STA. 7316+00.00 TO STA. 7316+31.15

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1193
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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



**NOTES**

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**7316 + 50.00**  
**RAMP ES 1518 + 39.22**  
**RAMP WS 1233 + 13.24**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

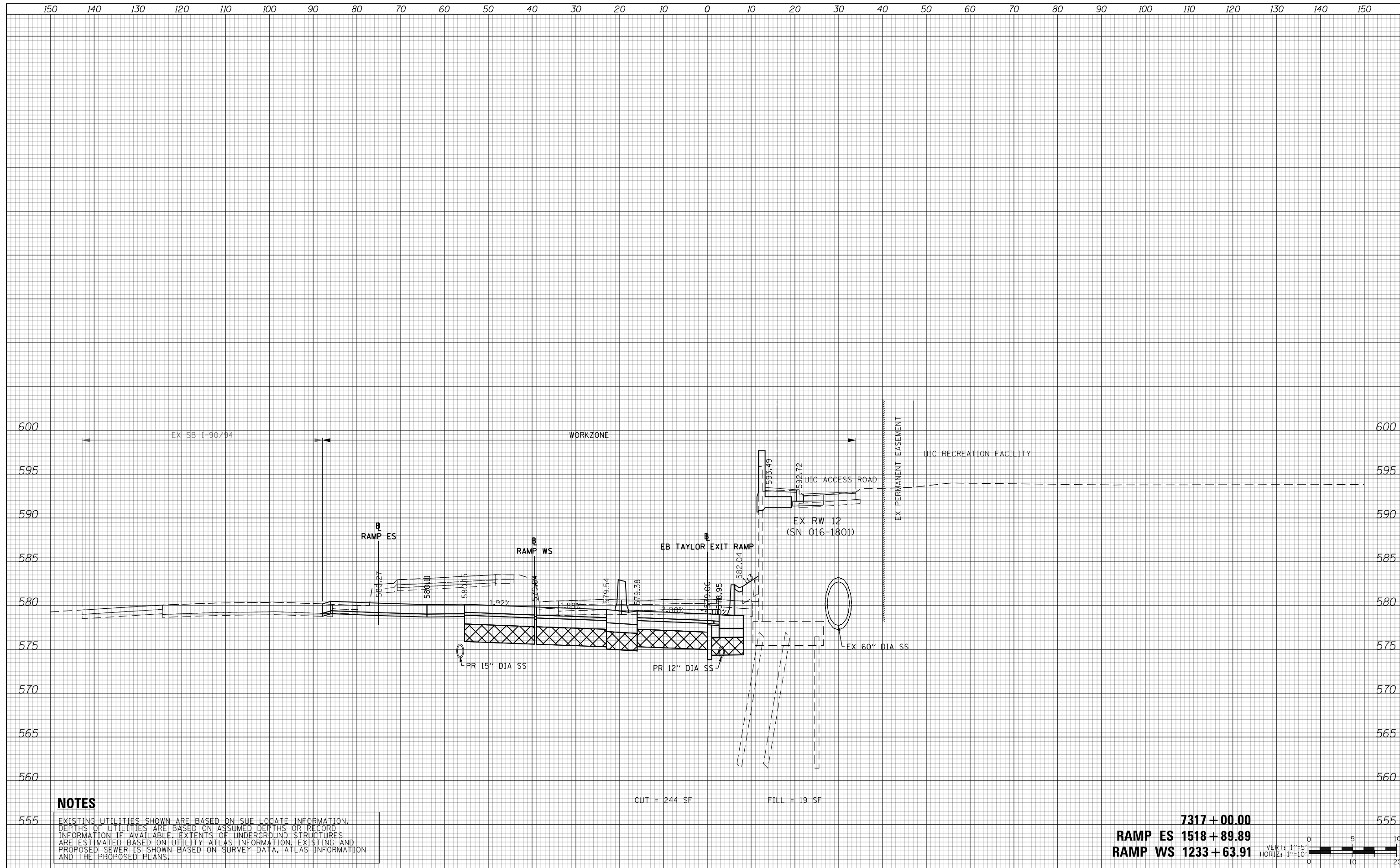
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>EB TAYLOR EXIT RAMP - STAGE 2</b>			
SCALE: 10:H 5:V	SHEET 17	OF 32 SHEETS	STA. 7316+50.00 TO STA. 7316+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1194
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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



**NOTES**

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**7317 + 00.00**  
**RAMP ES 1518 + 89.89**  
**RAMP WS 1233 + 63.91**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

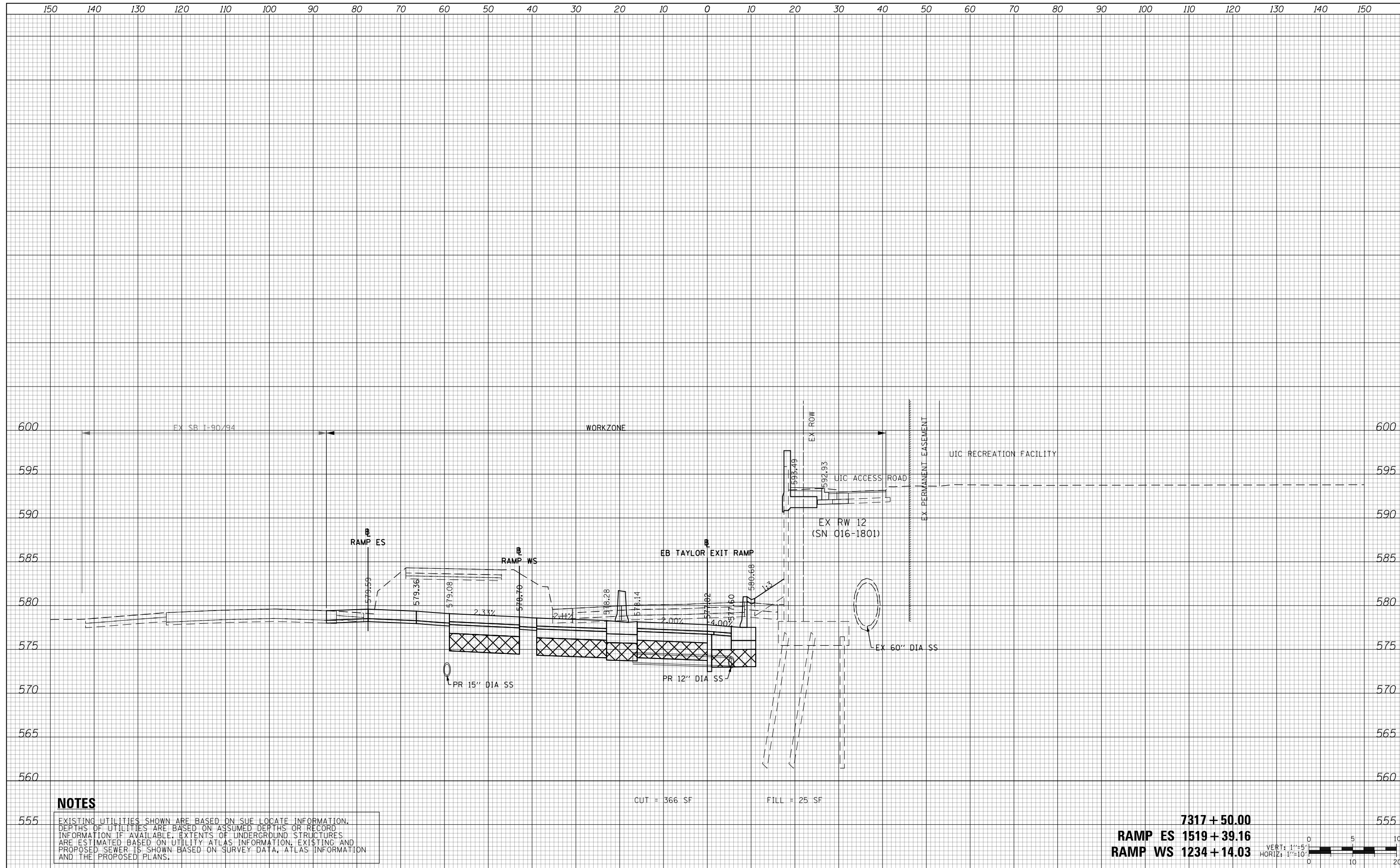
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 18	OF 32 SHEETS	STA. 7317+00.00 TO STA. 7317+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1195
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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

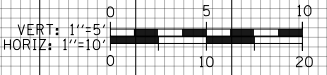


**NOTES**

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CUT = 366 SF      FILL = 25 SF

**7317 + 50.00**  
**RAMP ES 1519 + 39.16**  
**RAMP WS 1234 + 14.03**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

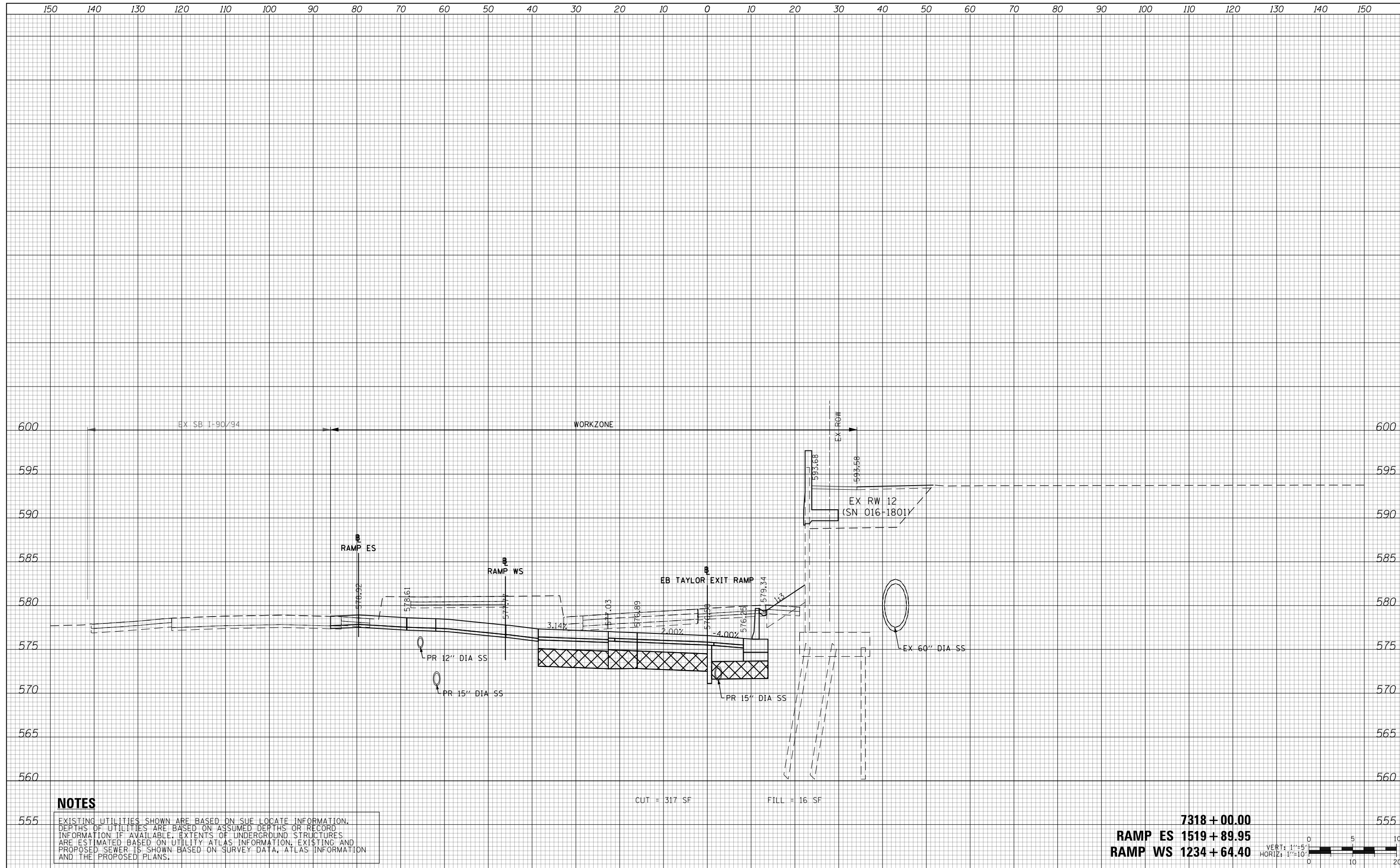
CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10'H 5'V	SHEET 19 OF 32 SHEETS	STA. 7317+50.00 TO STA. 7317+50.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1196
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				



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

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

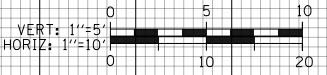


**NOTES**

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CUT = 317 SF      FILL = 16 SF

**7318 + 00.00**  
**RAMP ES 1519 + 89.95**  
**RAMP WS 1234 + 64.40**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

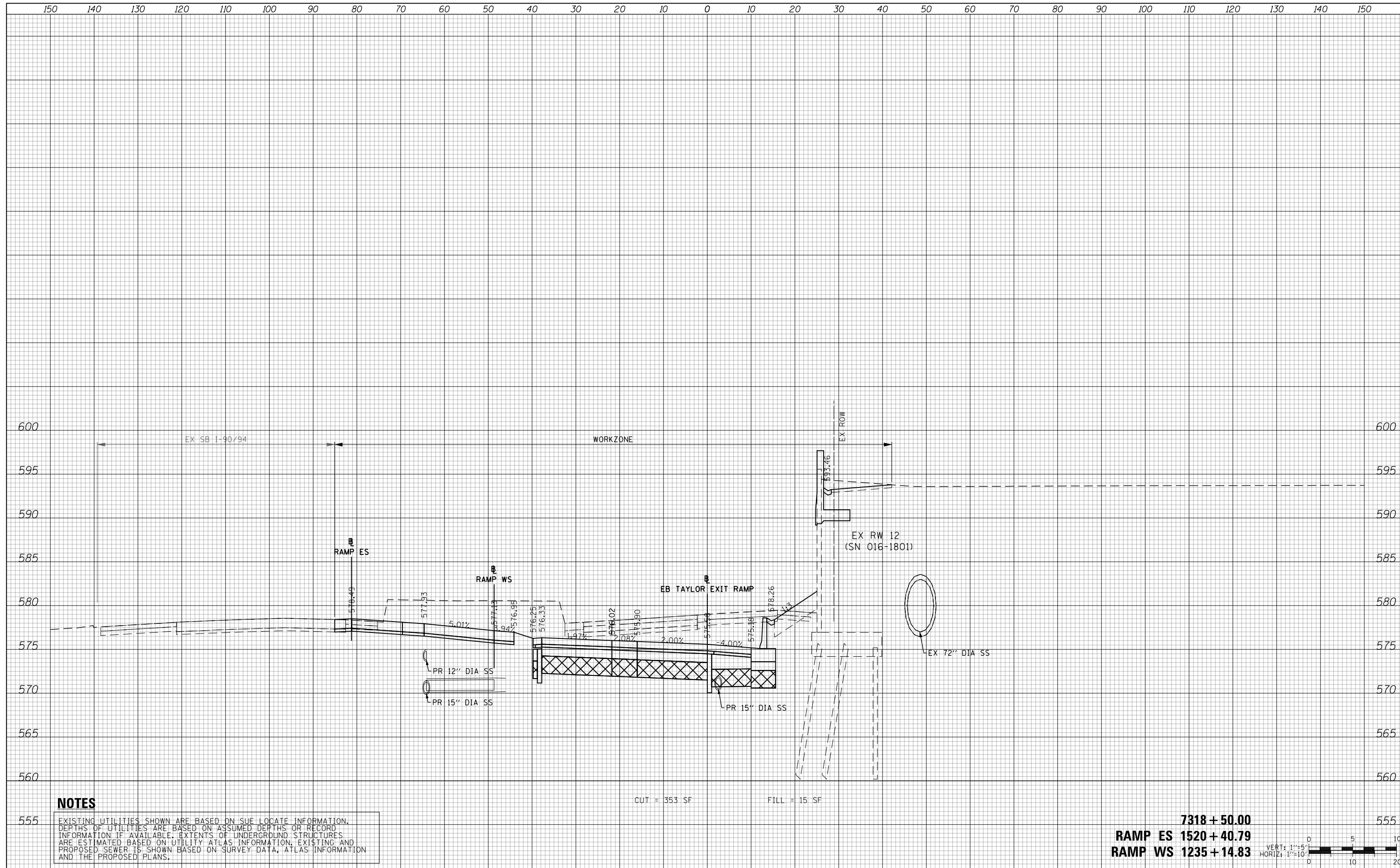
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 20	OF 32 SHEETS	STA. 7318+00.00 TO STA. 7318+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1197
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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



**NOTES**

EXISTING UTILITIES SHOWN ARE BASED ON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED ON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED BASED ON UTILITY ATLAS INFORMATION, EXISTING AND PROPOSED SEWER IS SHOWN BASED ON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

CUT = 353 SF      FILL = 15 SF

**7318 + 50.00**  
**RAMP ES 1520 + 40.79**  
**RAMP WS 1235 + 14.83**



D:\60X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

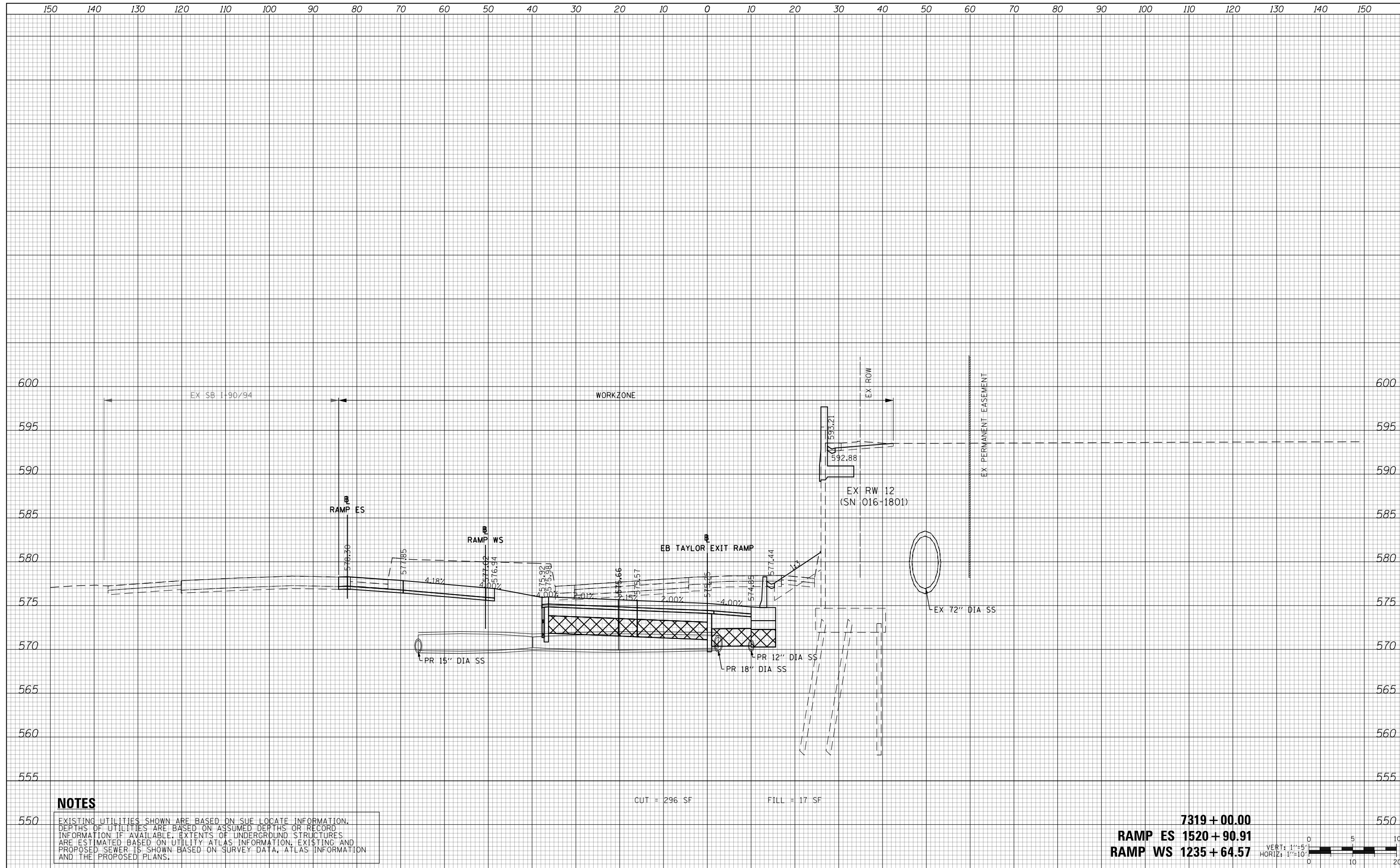
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 21	OF 32 SHEETS	STA. 7318+50.00 TO STA. 7318+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1198
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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

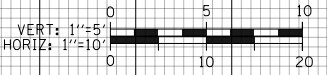


**NOTES**

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CUT = 296 SF      FILL = 17 SF

**7319 + 00.00**  
**RAMP ES 1520 + 90.91**  
**RAMP WS 1235 + 64.57**



D:\60\93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

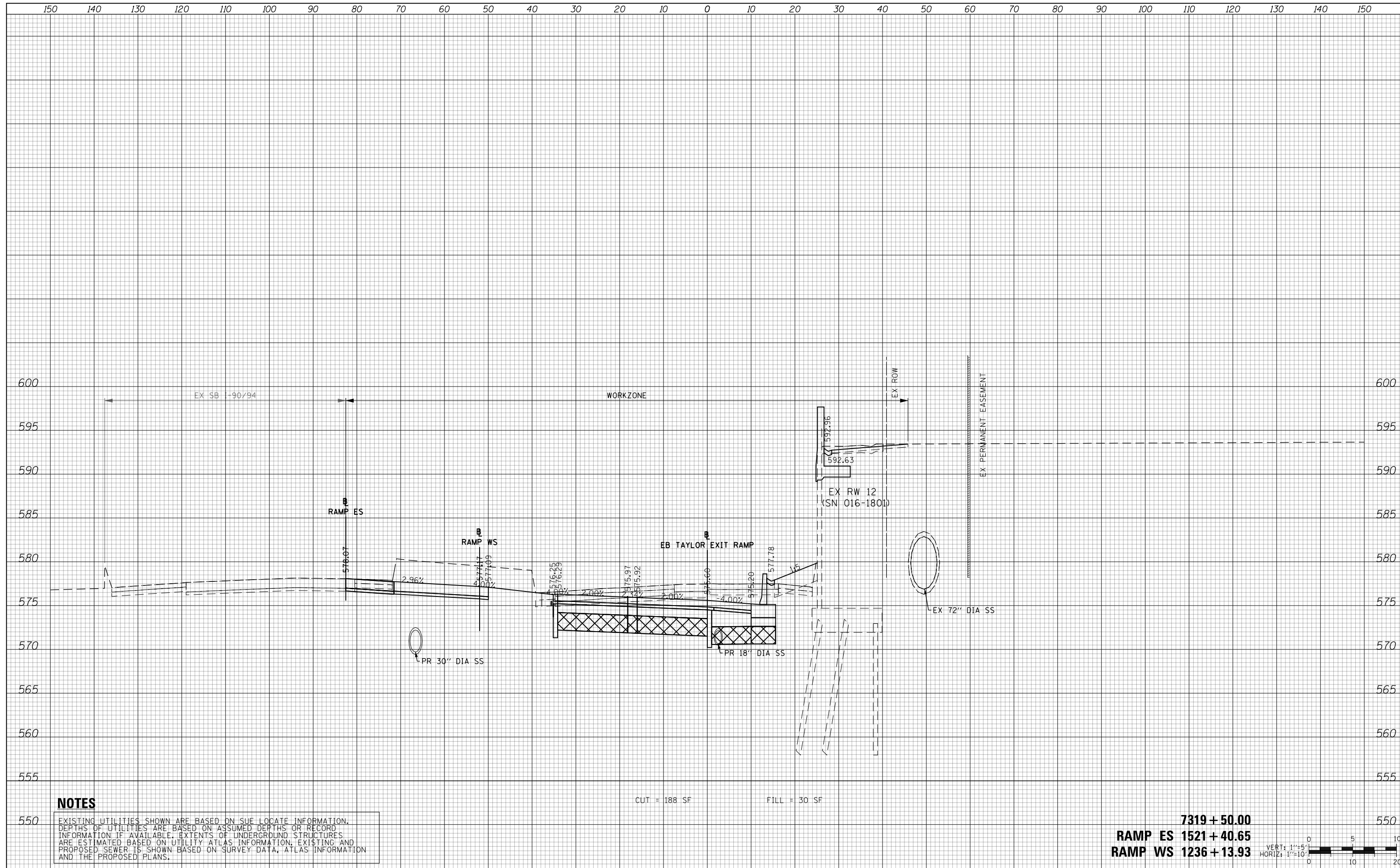
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 22	OF 32 SHEETS	STA. 7319+00.00 TO STA. 7319+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1199
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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

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

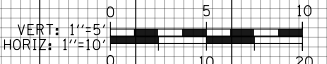


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CUT = 188 SF      FILL = 30 SF

**7319 + 50.00**  
**RAMP ES 1521 + 40.65**  
**RAMP WS 1236 + 13.93**



D160X93-SHT-XS-TAY-EB-Phase-2.dgn	DESIGNED - MSB	REVISED -
USER NAME = msbilliot	DRAWN - MSB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/31/2018	DATE - 7/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
EB TAYLOR EXIT RAMP - STAGE 2			
SCALE: 10:H 5:V	SHEET 23	OF 32 SHEETS	STA. 7319+50.00 TO STA. 7319+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1200
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				