

MSA WALL PANEL ELEVATIONS
(Patterns SU1, SU2, SU3 and SU4)

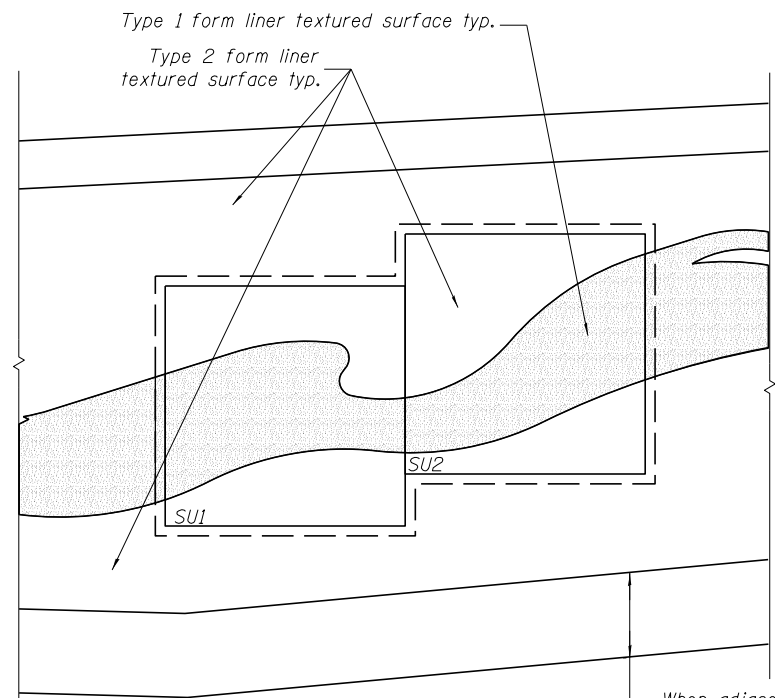
FILE NAME = ILLINOIS MSE WALLS	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -
		CHECKED - B. HANNAH	REVISED -
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

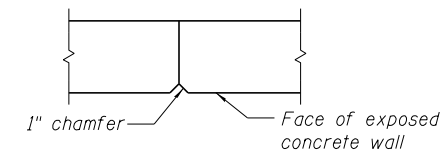
MSE WALL
AESTHETIC DETAILS MSE WALL PANEL ELEVATION

SHEET NO. 6 OF 6 SHEETS

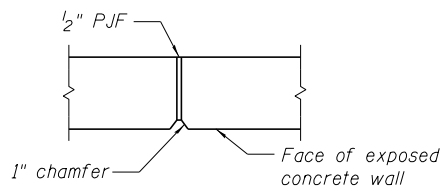
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	2042	1501
PROJECT NO. 92-032-01		CONTRACT NO. 64C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



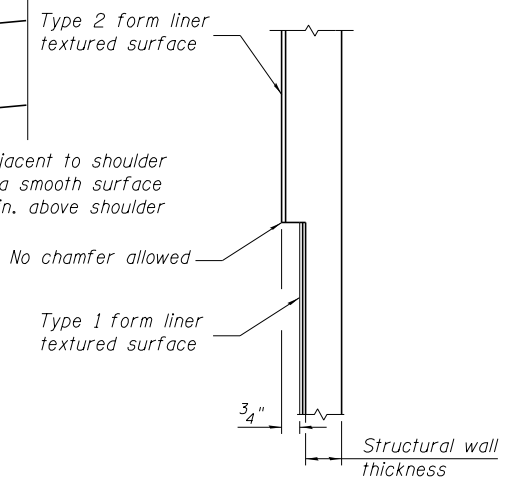
TYPICAL PATTERN STEP UP CONFIGURATION



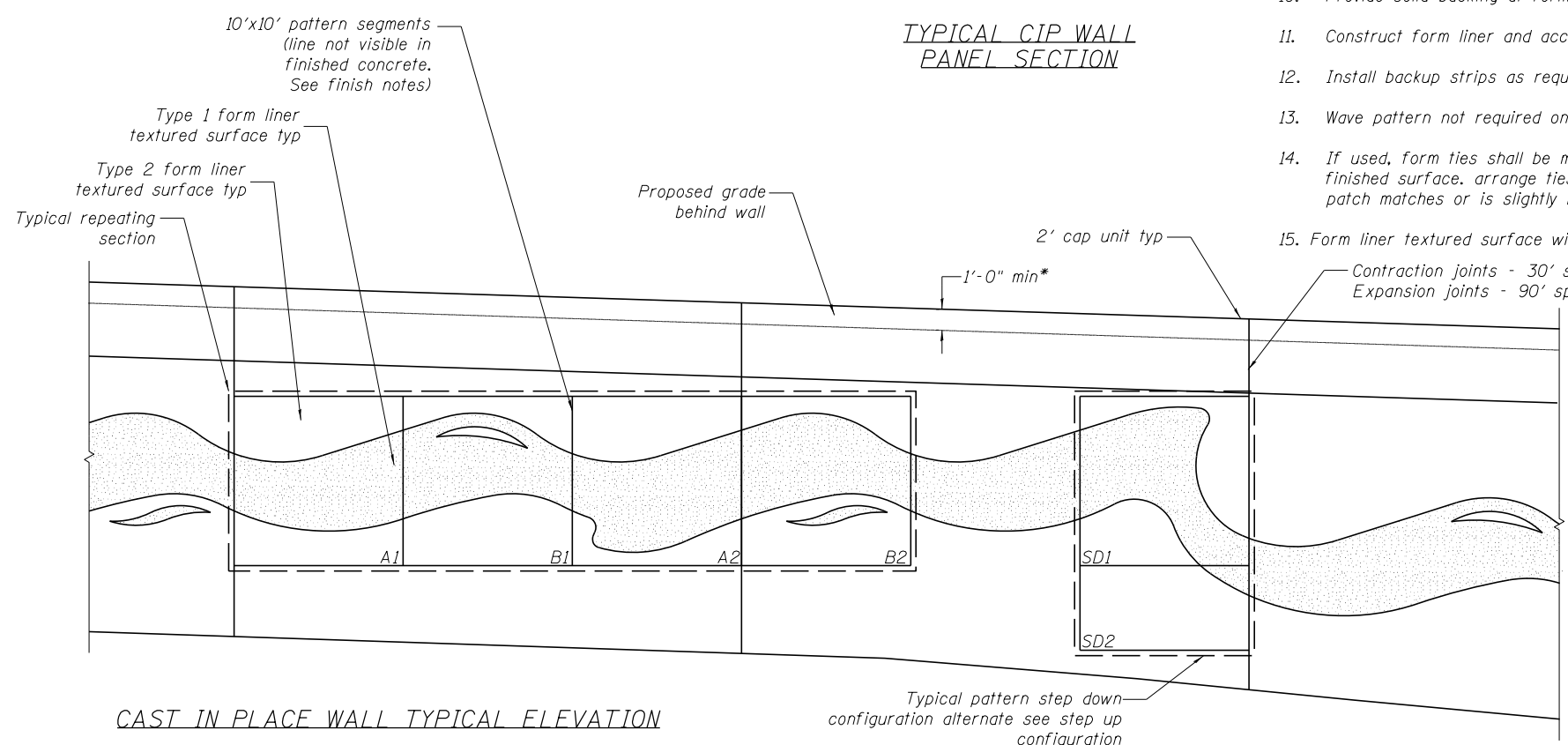
CONSTRUCTION JOINT



EXPANSION JOINT



TYPICAL CIP WALL PANEL SECTION

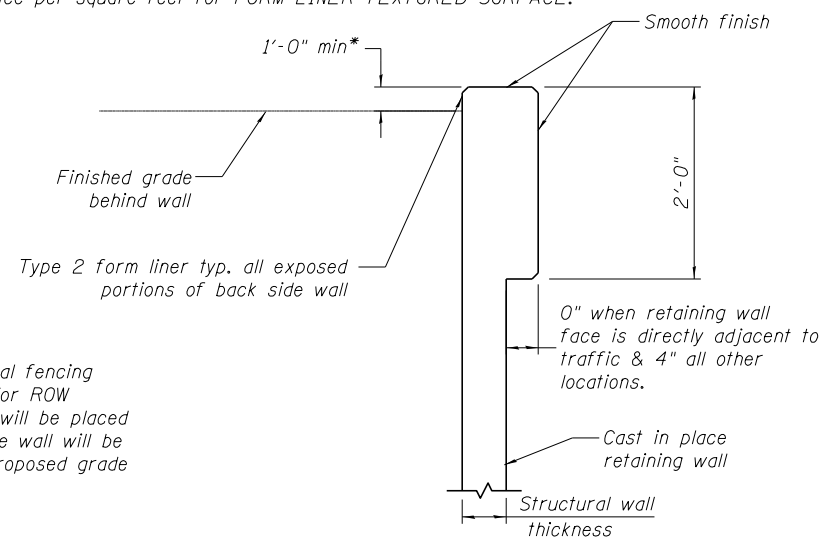


CAST IN PLACE WALL TYPICAL ELEVATION

CAST IN PLACE CONCRETE WALL PANEL FINISH NOTES

- Submit shop drawings indicating form liner layout and termination details for all panels. Indicate backup, rustication, reveal, and chamfer strip locations. Include jointing, pattern placement and orientation. Contractor responsible for design of formwork and back-up of form liner for structural stability and sufficiency.
- Submit 12 inch by 12 inch samples of each pattern indicated. Samples may be either actual form liner materials or foam castings from liners proposed for use on the project.
- Provide 4'x4' full scale sample panel using actual job specific materials, methods and workmanship. These include concrete mix [cement type, aggregate gradation, slump, water/cement ratios, plasticizers and additives], forming system [liner and formwork], form release agents, placement rate, form pressures, formwork and joint sealing, vibrating and stripping practices. In addition, demonstrate patching and repair procedures for spalled concrete, and voids caused by honeycombing or bugholes. Accepted sample panels will be standard by which remaining work will be evaluated for technical and aesthetic merit. Contractor shall store accepted sample panels on site for reference until substantial completion. Accepted sample panels are a prerequisite to beginning job formwork. Submit variations from sample panel materials or techniques for approval prior to use.
- Cover form liners to protect from oil, dirt and uv exposure.
- Handle rigid form liner panels with care at temperatures below 25° F.
- Approved manufacturers of form liners materials and accessories

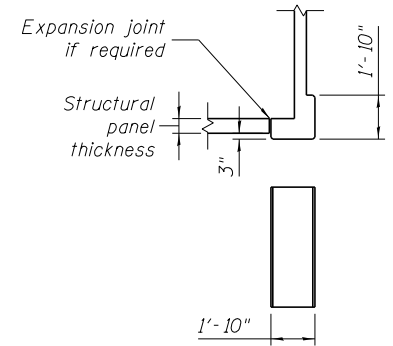
Basis of Design:	Allowable Alternates:
TYPE 1- Scott System Pattern 122 - striated	Type 1 - Fitzgerald Formliners pattern 17934 - dc wave
TYPE 2- Scott System Pattern 120 - sandblast #2	Type 2 - Fitzgerald Formliners pattern 16991 - medium sandblast
Scott System, Inc. 10777 East 45TH Avenue Denver, CO 80239 333-373-2500 WWW.SCOTTSYSTEM.COM	Fitzgerald Formliners, Inc. 1500 East Chestnut Avenue Santa Ana, CA 92701 800-547-7760 WWW.FORMLINERS.COM
	Type 1 - American Formliners pattern 1122 - random striations
	Type 2 - American Formliners pattern 1200 - light/medium sandblast
	American Formliners, Inc. 1567 Frontenac Road Naperville, IL 60563 630-615-2170 WWW.AMERICANFORMLINERS.COM
- On multiple use liners, clean liner before each use. Replace damaged liner whose continued use or repair would negatively impact the aesthetics of the concrete finish.
- Apply form liner compatible release agent at rate recommended by manufacturer. Attempt to schedule concrete pour soon after application of release agent to avoid precipitation, dust, and debris. Protect reinforcing steel from exposure to release agents.
- Seal form liner joints to prevent mortar leakage.
- Provide solid backing at form liner butt joints to prevent deflection.
- Construct form liner and accessories to sizes, shapes, lines and dimensions shown.
- Install backup strips as required to prevent deflection of the liner due to form pressures.
- Wave pattern not required on exposed wall sections less than 4'-0" in height.
- If used, form ties shall be made of non-corrosive materials when the portions permanently embedded in the concrete is less than 1/2 inches from the finished surface. arrange ties to be regularly spaced and in a consistent geometric grid pattern. Perform patching of tie holes and other voids so that patch matches or is slightly lighter than surrounding concrete when dry. Use white cement to lighten the patching mix.
- Form liner textured surface will be paid for at the contract unit price per square feet for FORM LINER TEXTURED SURFACE.



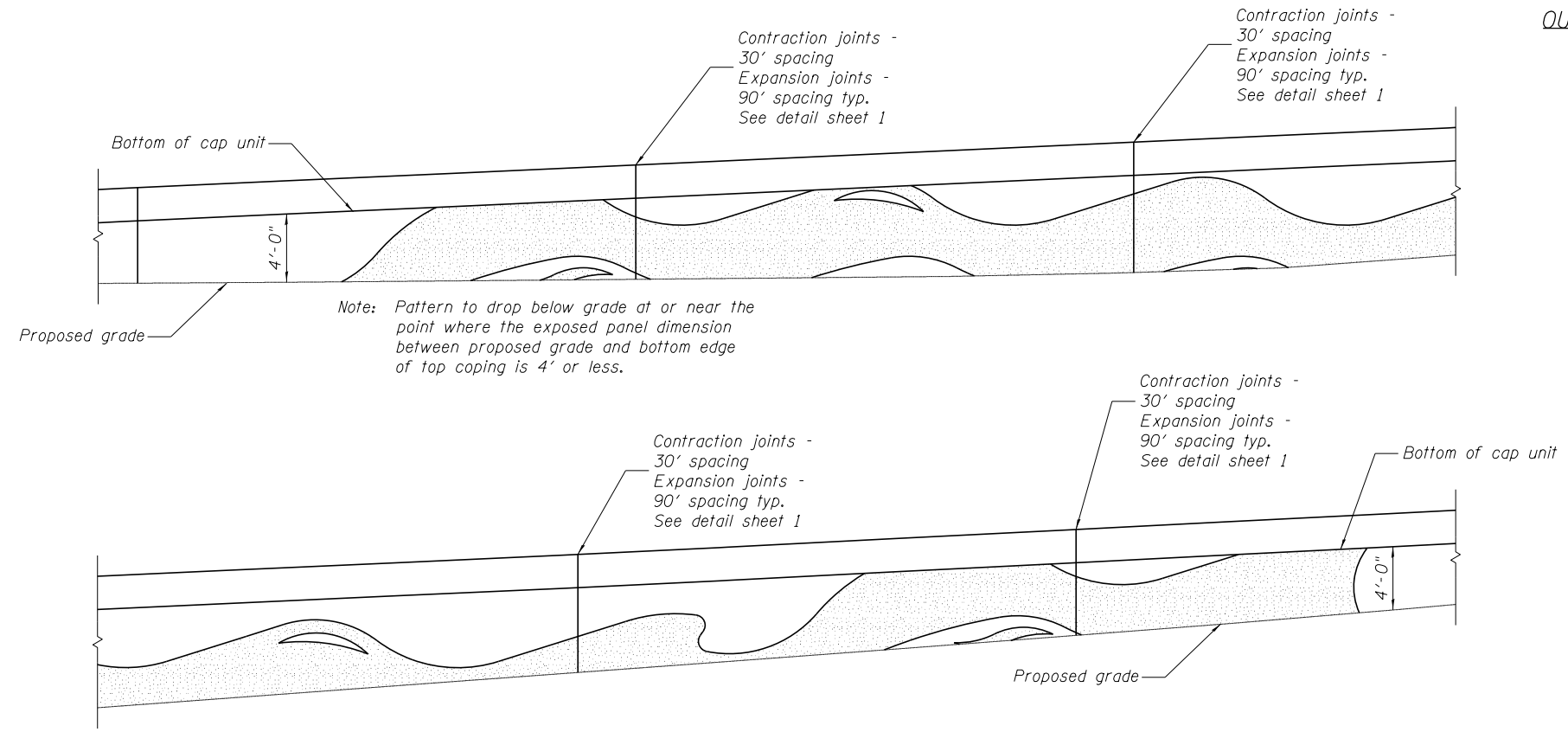
CIP CAP UNIT DETAIL

* Pending resolution of global fencing task. If fall protection and/or ROW access is required a fence will be placed at the top of the wall of the wall will be extended 3'-6" above the proposed grade at the top of the wall.

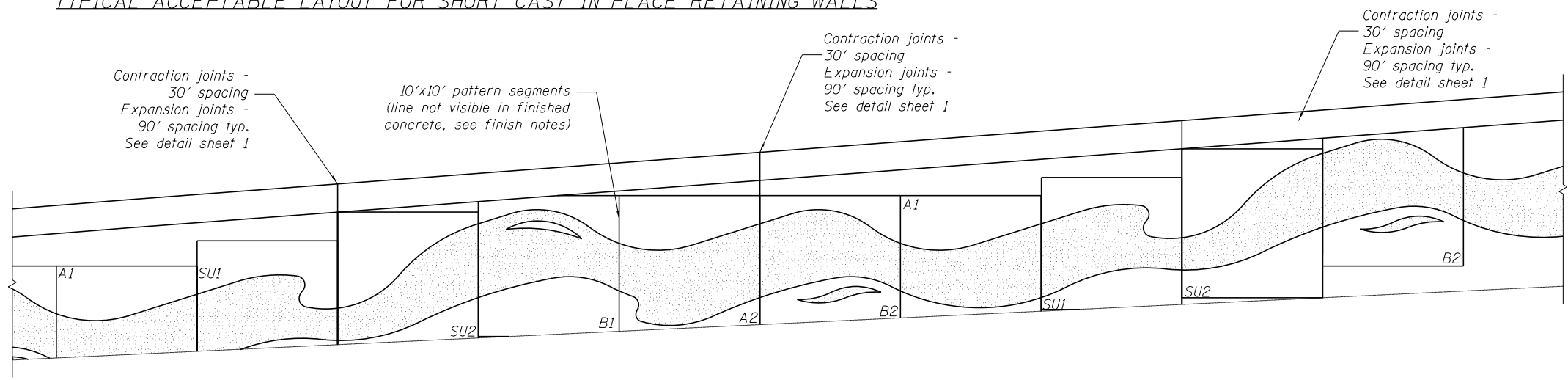
FILE NAME = ILLINOIS CIP WALL	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CIP RETAINING WALL AESTHETIC DETAILS CIP RETAINING WALL ELEVATION	F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - B. HANNAH	REVISED -			74	(81-11R-1 & 81-11R-2) HBR-1, HBR-2	ROCK ISLAND	2042	1502	
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -			PROJECT NO. 92-078-08		CONTRACT NO. 64E26			
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					
						SHEET NO. 1 OF 6 SHEETS					



OUTSIDE CORNER DETAIL

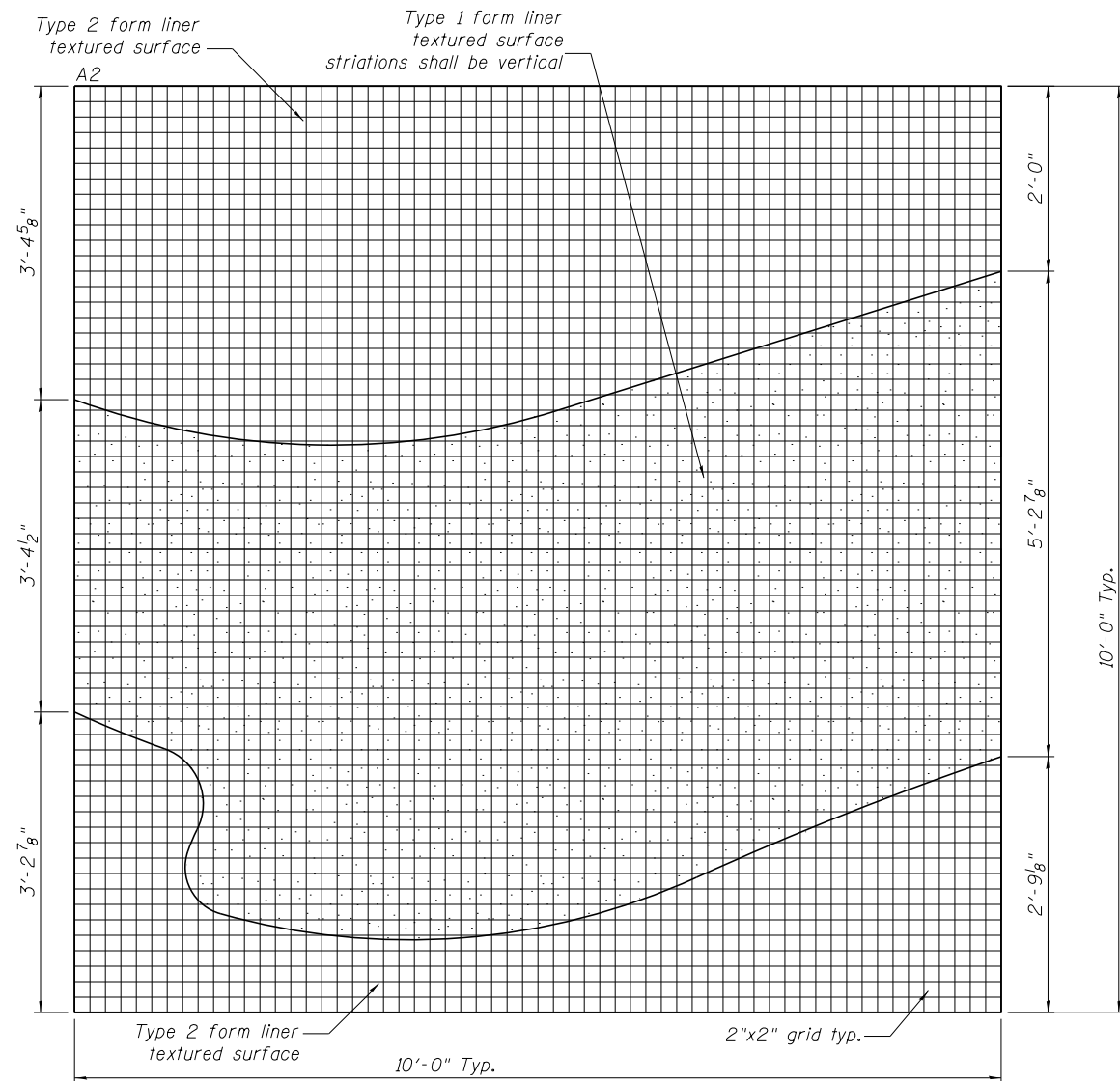
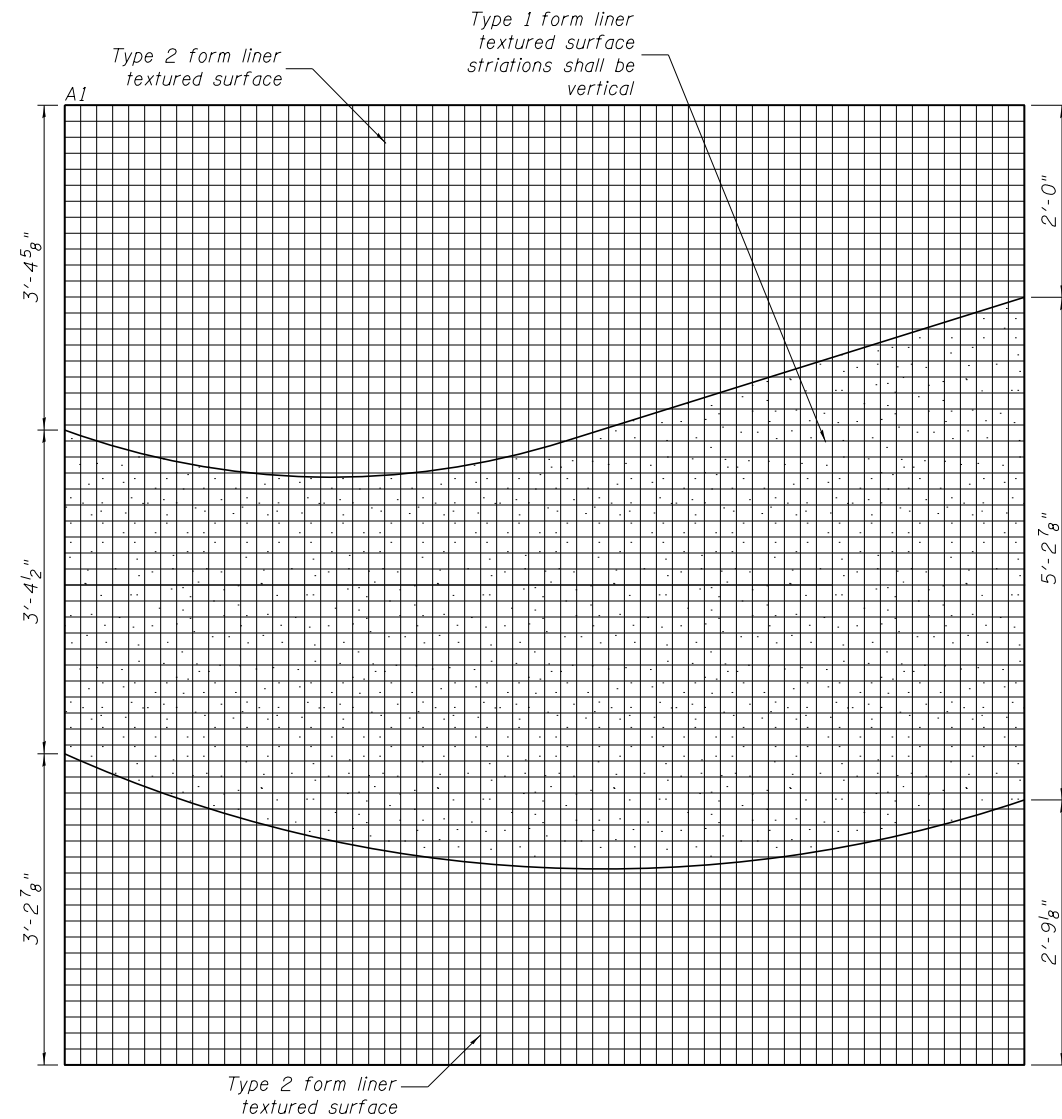


TYPICAL ACCEPTABLE LAYOUT FOR SHORT CAST IN PLACE RETAINING WALLS



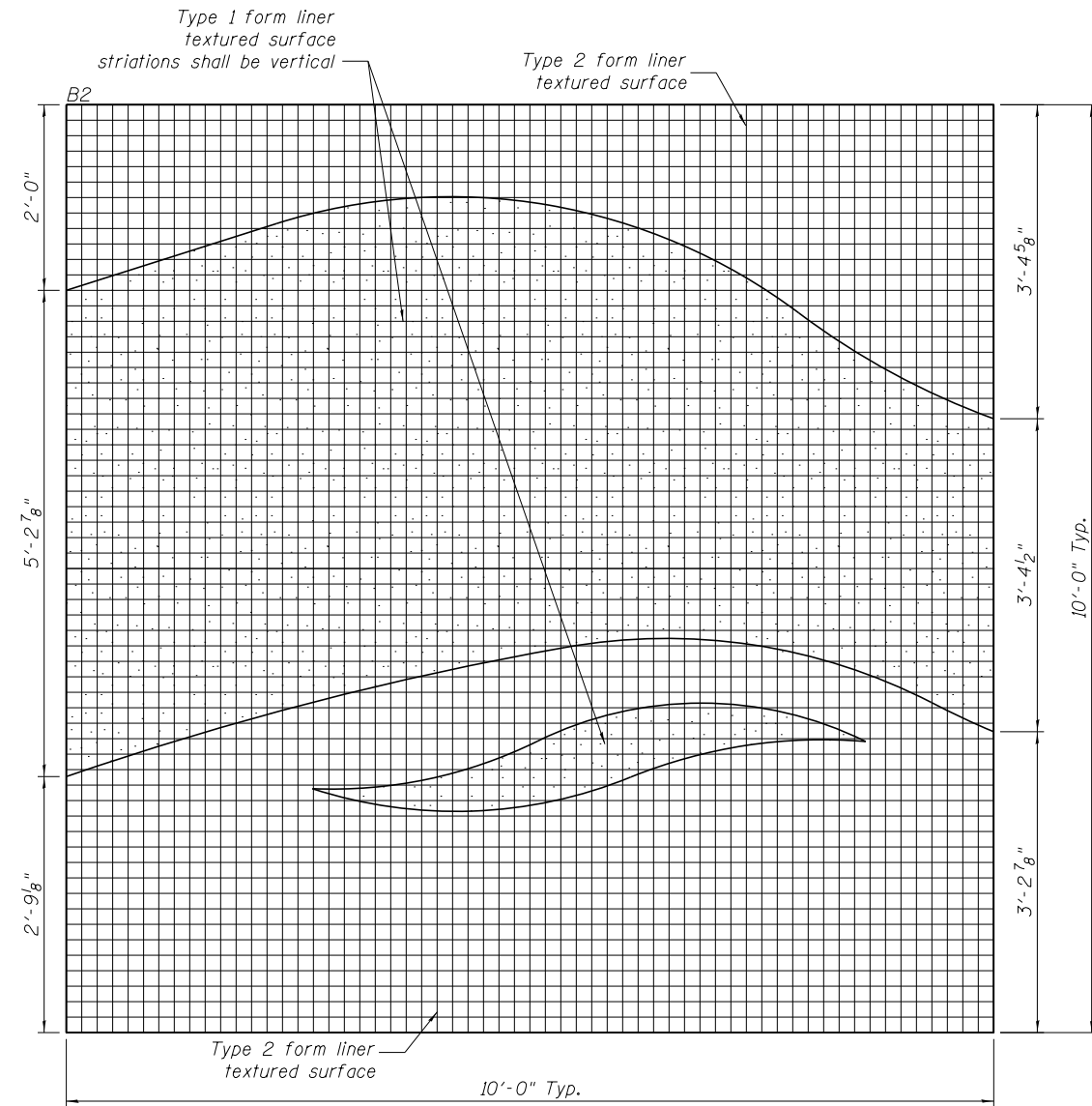
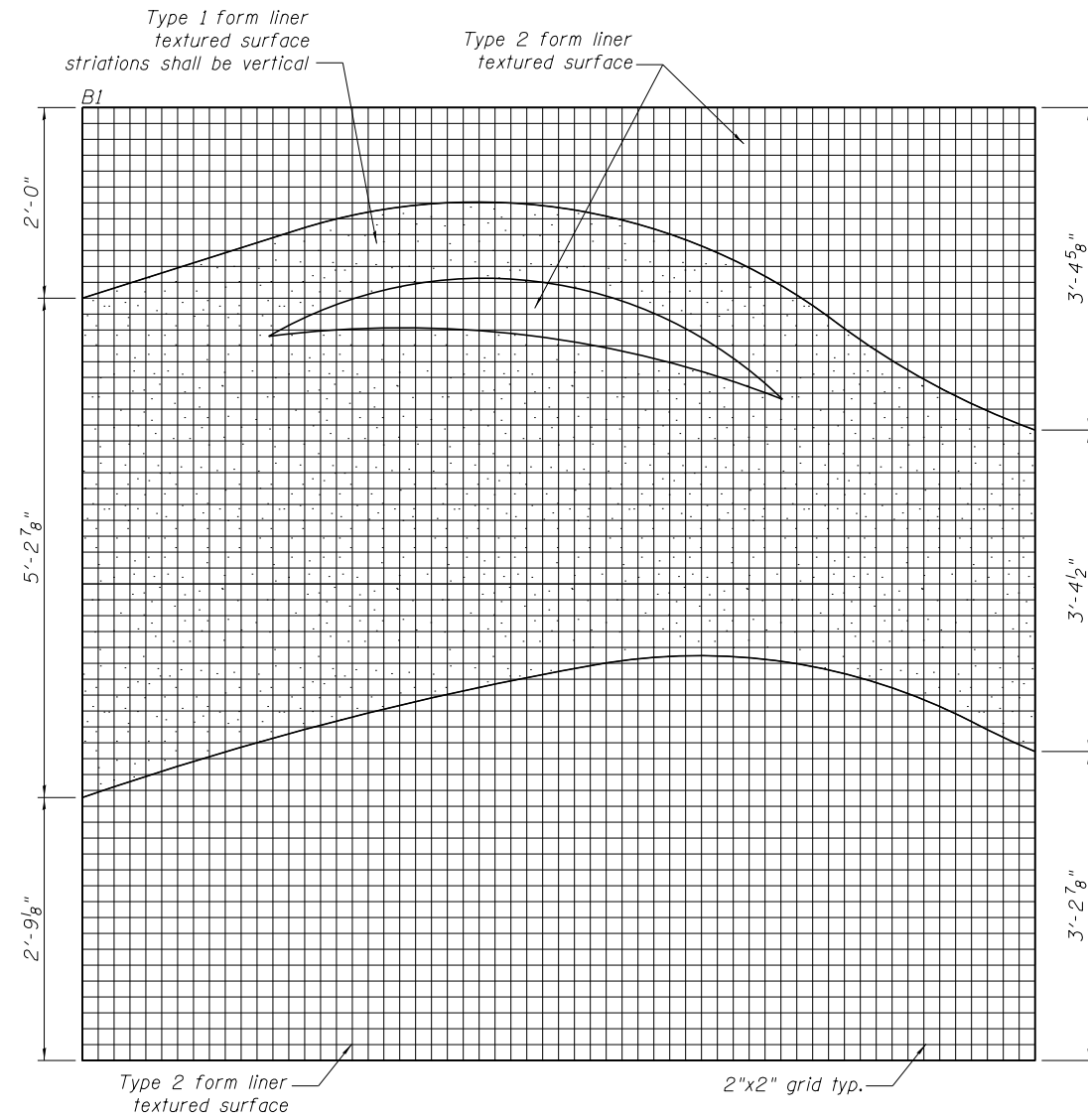
ADDITIONAL LAYOUT EXAMPLE

FILE NAME = ILLINOIS CIP WALL	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CIP RETAINING WALL AESTHETIC DETAILS CIP RETAINING WALL ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - B. HANNAH	REVISED -			74	(81-11R-1 & 81-11R-2) HBR-1, HBR-2	ROCK ISLAND	2042	1503
	PLOT DATE = 3/21/2017	DRAWN - M. ROSS	REVISED -			PROJECT NO. 92-078-08		CONTRACT NO. 64E26		
		CHECKED - 5/8/2015	REVISED -			FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
SHEET NO. 2 OF 6 SHEETS										



CIP WALL TEXTURE PATTERN SEGMENTS A1 AND A2

FILE NAME = ILLINOIS CIP WALL	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CIP RETAINING WALL AESTHETIC DETAILS CIP RETAINING WALL ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 3/21/2017	DRAWN - M. ROSS	CHECKED - 5/8/2015	REVISED -	SHEET NO. 3 OF 6 SHEETS		PROJECT NO. 92-078-08		CONTRACT NO. 64E26		
						FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



CIP WALL TEXTURE PATTERN SEGMENTS B1 AND B2

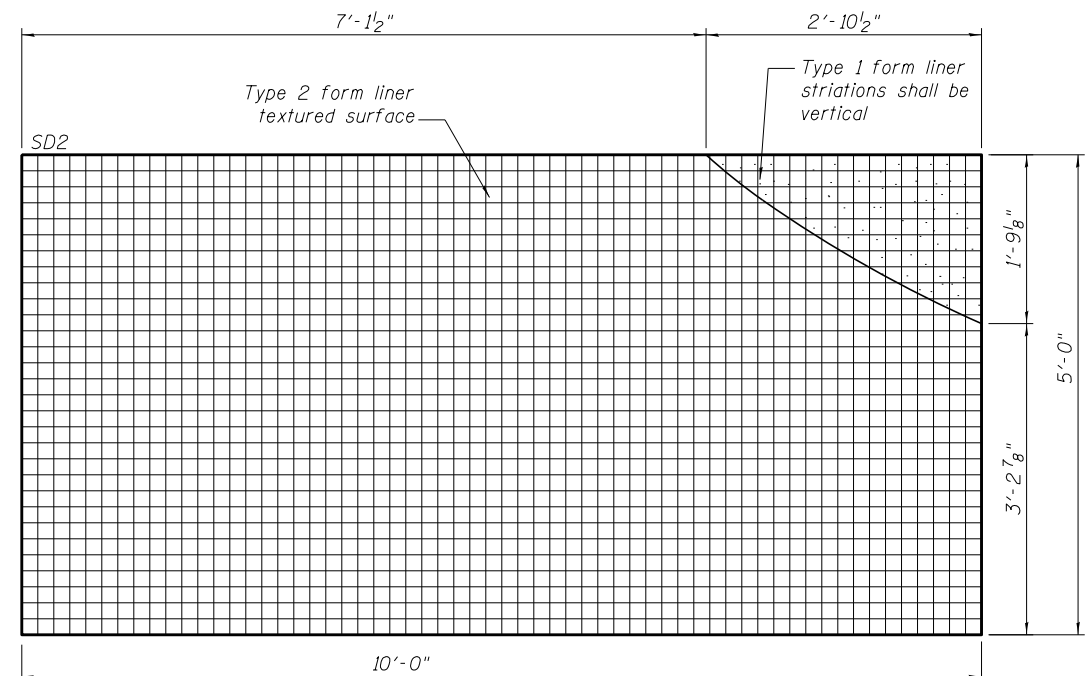
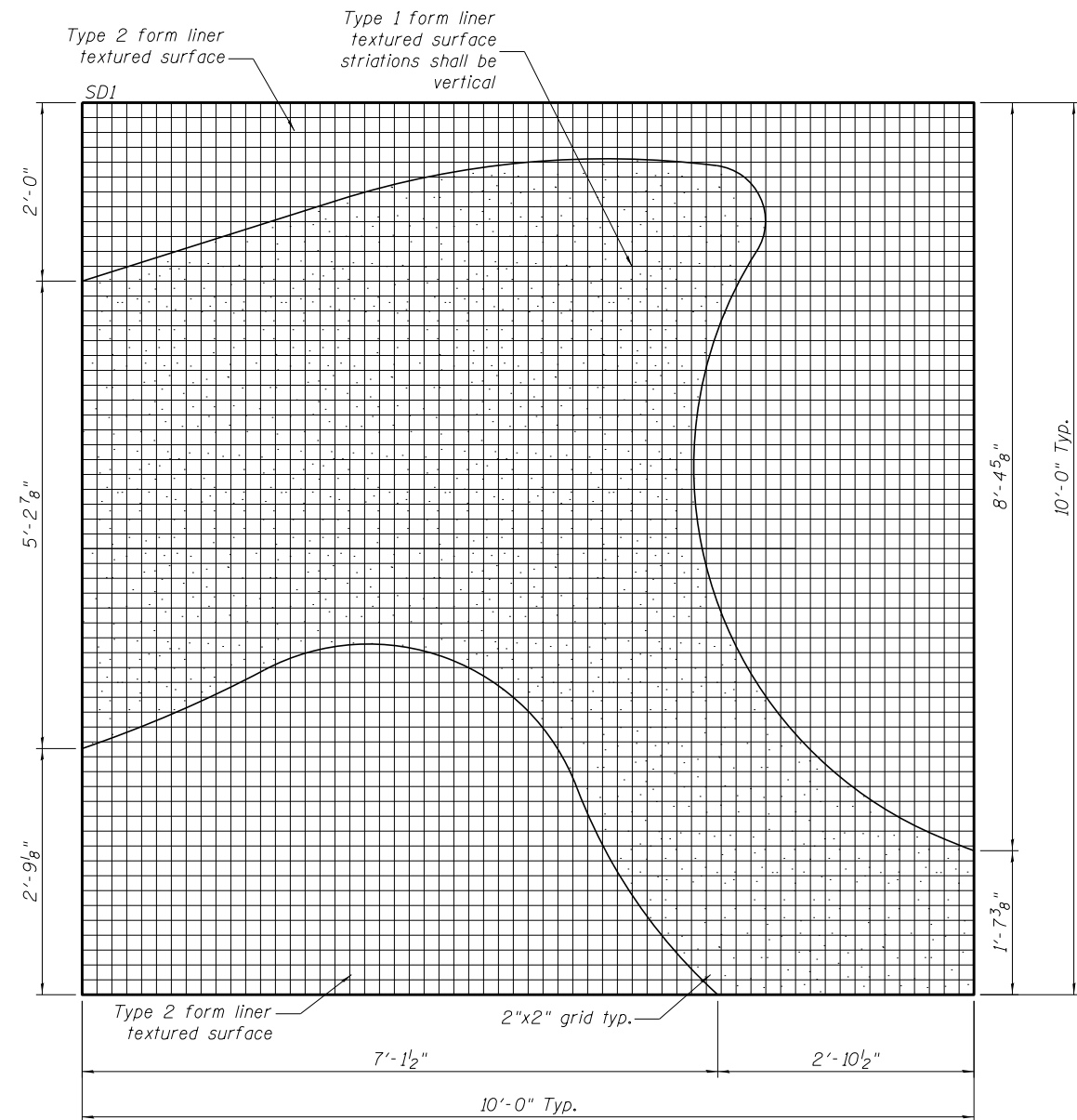
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	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIP RETAINING WALL
AESTHETIC DETAILS CIP RETAINING WALL ELEVATION

SHEET NO. 4 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(B1-1R-1 & B1-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1505
PROJECT NO. 92-078-08		CONTRACT NO. 64E26		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



CIP WALL TEXTURE PATTERN STEP DOWN SEGMENTS SD1 AND SD2

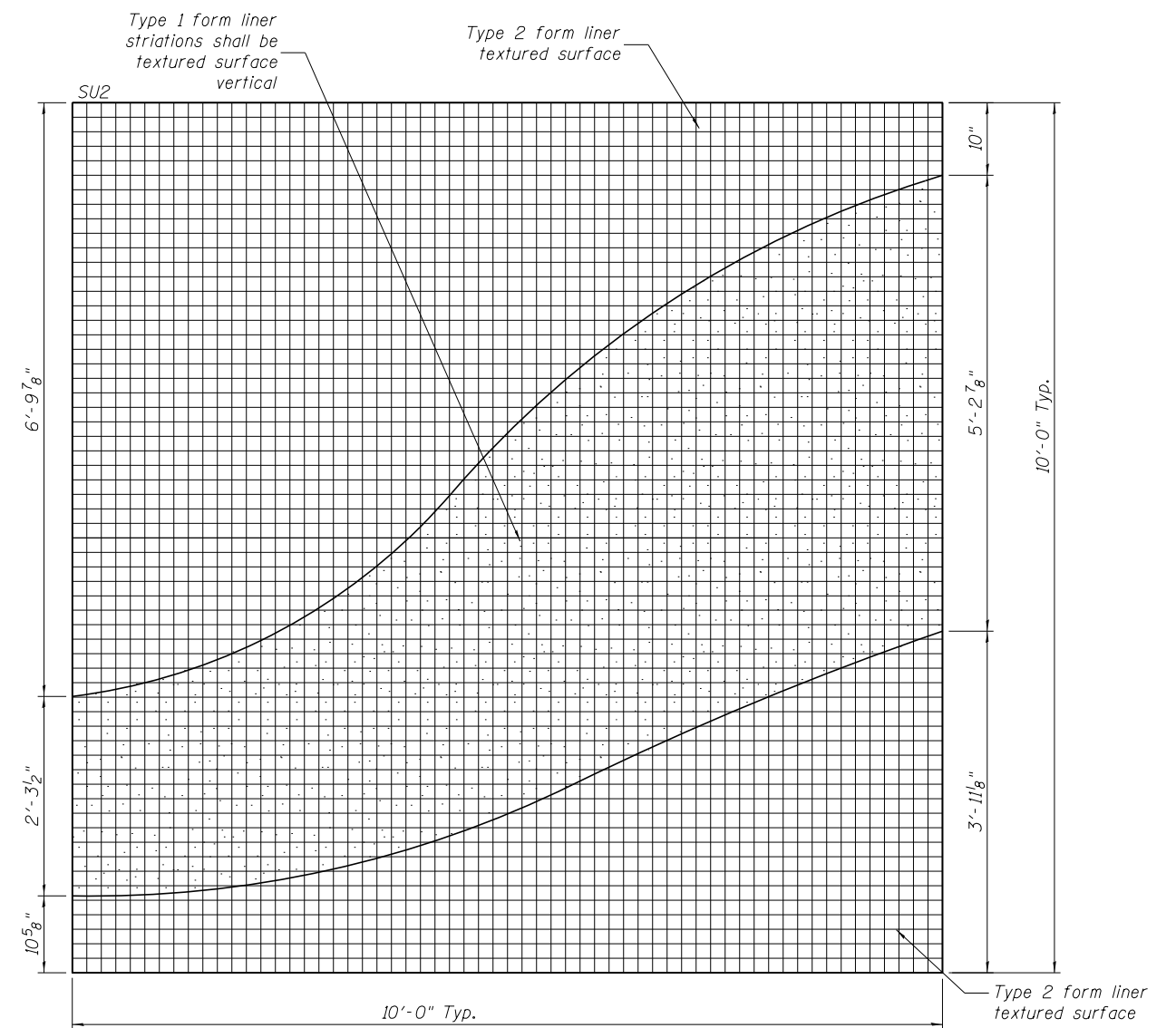
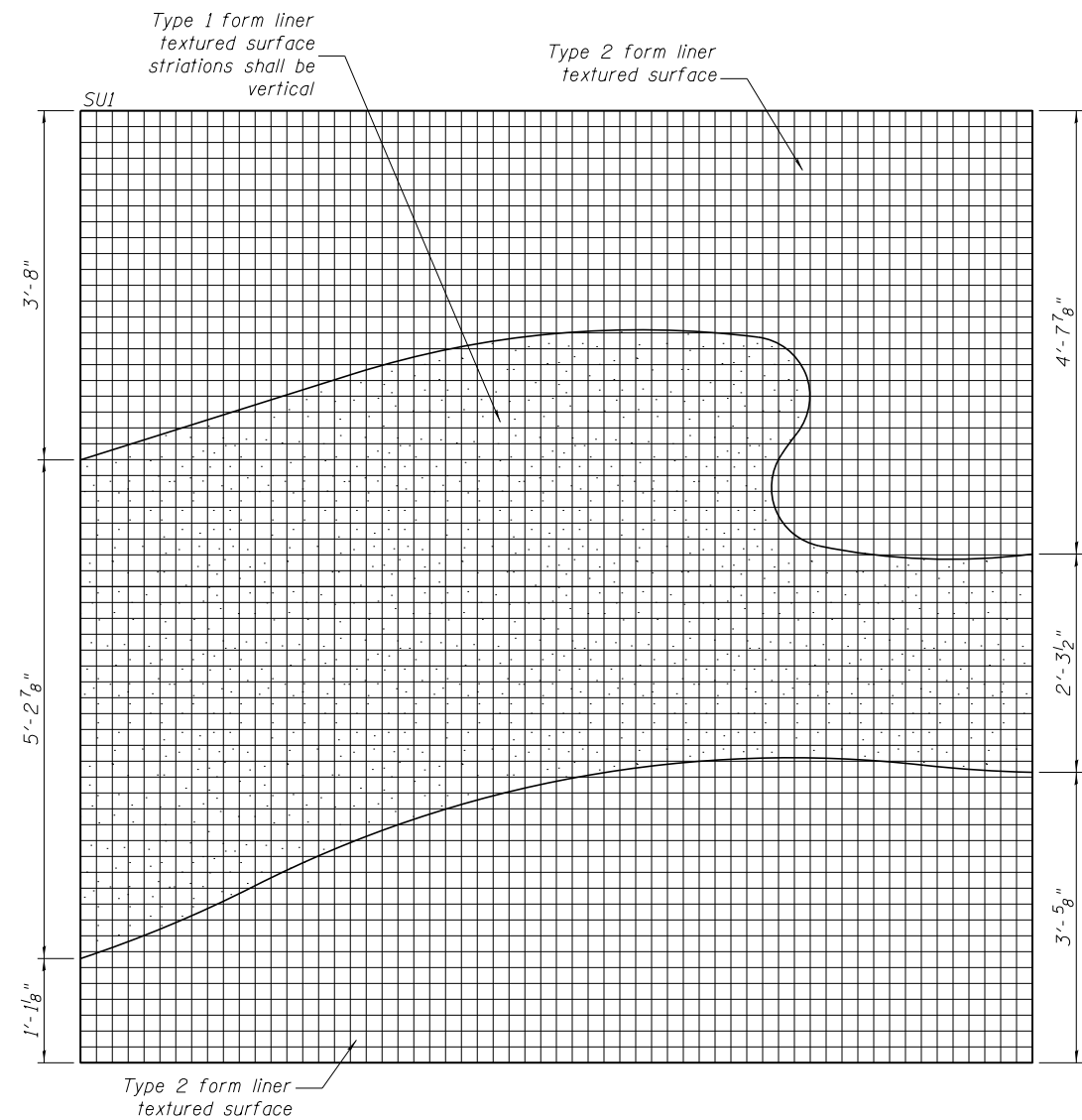
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	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIP RETAINING WALL
AESTHETIC DETAILS CIP RETAINING WALL ELEVATION

SHEET NO. 5 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11R-2) HBR-1, HBR-2	ROCK ISLAND	2042	1506
PROJECT NO. 92-078-08		CONTRACT NO. 64E26		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



CIP WALL TEXTURE PATTERN STEP UP SEGMENTS SUI, AND SU2

FILE NAME = ILLINOIS CIP WALL	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -
		CHECKED - B. HANNAH	REVISED -
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIP RETAINING WALL
AESTHETIC DETAILS CIP RETAINING WALL ELEVATION

SHEET NO. 6 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11R-2) HBR-1, HBR-2	ROCK ISLAND	2042	1507
PROJECT NO. 92-078-08		CONTRACT NO. 64E26		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Specifications for Highway Bridges, 6th edition
 1989 Guide Specifications for Structural Design of Sound Barriers with 1992 and 2002 interims.

DESIGN STRESSES

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Fabric)

STRUCTURE MOUNTED UNITS

$f_y = 36,000$ psi

FIELD UNITS

$f'_c = 3,500$ psi
 $f'_c = 3,500$ (Drilled Shafts)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel) (M270 Grade 50)

INDEX OF SHEETS

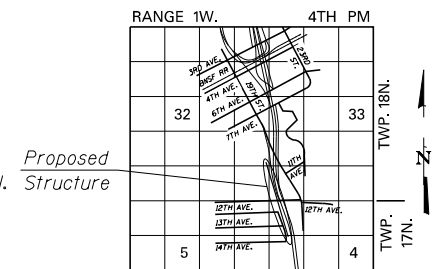
- 1 General Plan and Elevation (1 of 3)
- 2 General Plan and Elevation (2 of 3)
- 3 General Plan and Elevation (3 of 3)
- 4 General Notes and Total Bill of Material
- 5 Details (1 of 2)
- 6 Details (2 of 2)
- 7 Aesthetic Details Structure Mounted (1 of 4)
- 8 Aesthetic Details Structure Mounted (2 of 4)
- 9 Aesthetic Details Structure Mounted (3 of 4)
- 10 Aesthetic Details Structure Mounted (4 of 4)
- 11 Aesthetic Details Ground Mounted (1 of 5)
- 12 Aesthetic Details Ground Mounted (2 of 5)
- 13 Aesthetic Details Ground Mounted (3 of 5)
- 14 Aesthetic Details Ground Mounted (4 of 5)
- 15 Aesthetic Details Ground Mounted (5 of 5)
- 16 Soil Boring Logs (1 of 5)
- 17 Soil Boring Logs (2 of 5)
- 18 Soil Boring Logs (3 of 5)
- 19 Soil Boring Logs (4 of 5)
- 20 Soil Boring Logs (5 of 5)

LEGEND

- Soil Boring
- Existing Underground Electric
- Existing Underground Fiber Optic
- Existing Underground Water
- Existing Sanitary Sewer
- Existing Drainage
- Existing Underground Gas Line
- Existing Underground Cable TV
- Existing ROW line
- Existing Fence
- Sign Structure
- Existing Guardrail
- Proposed Guardrail
- Proposed Buried Lighting
- Proposed Drainage

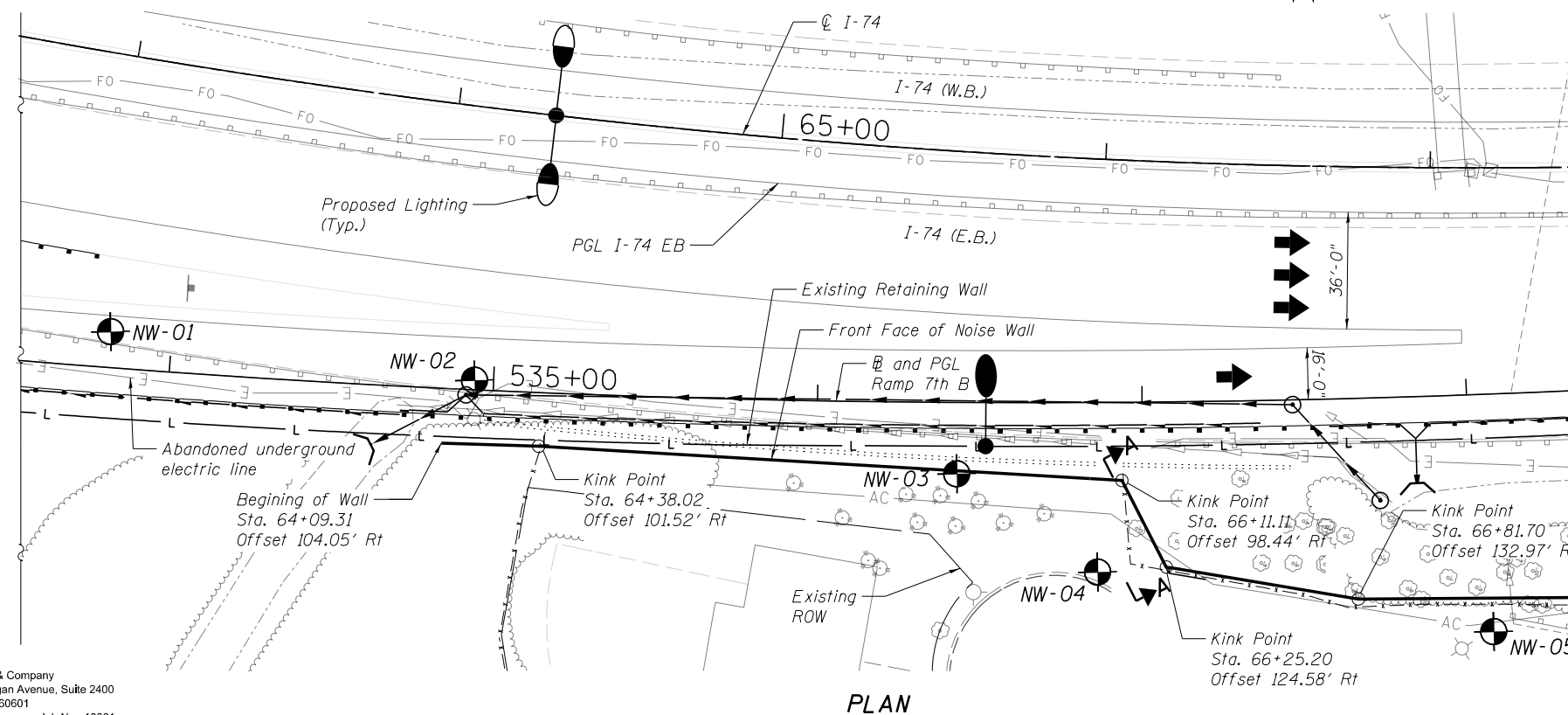
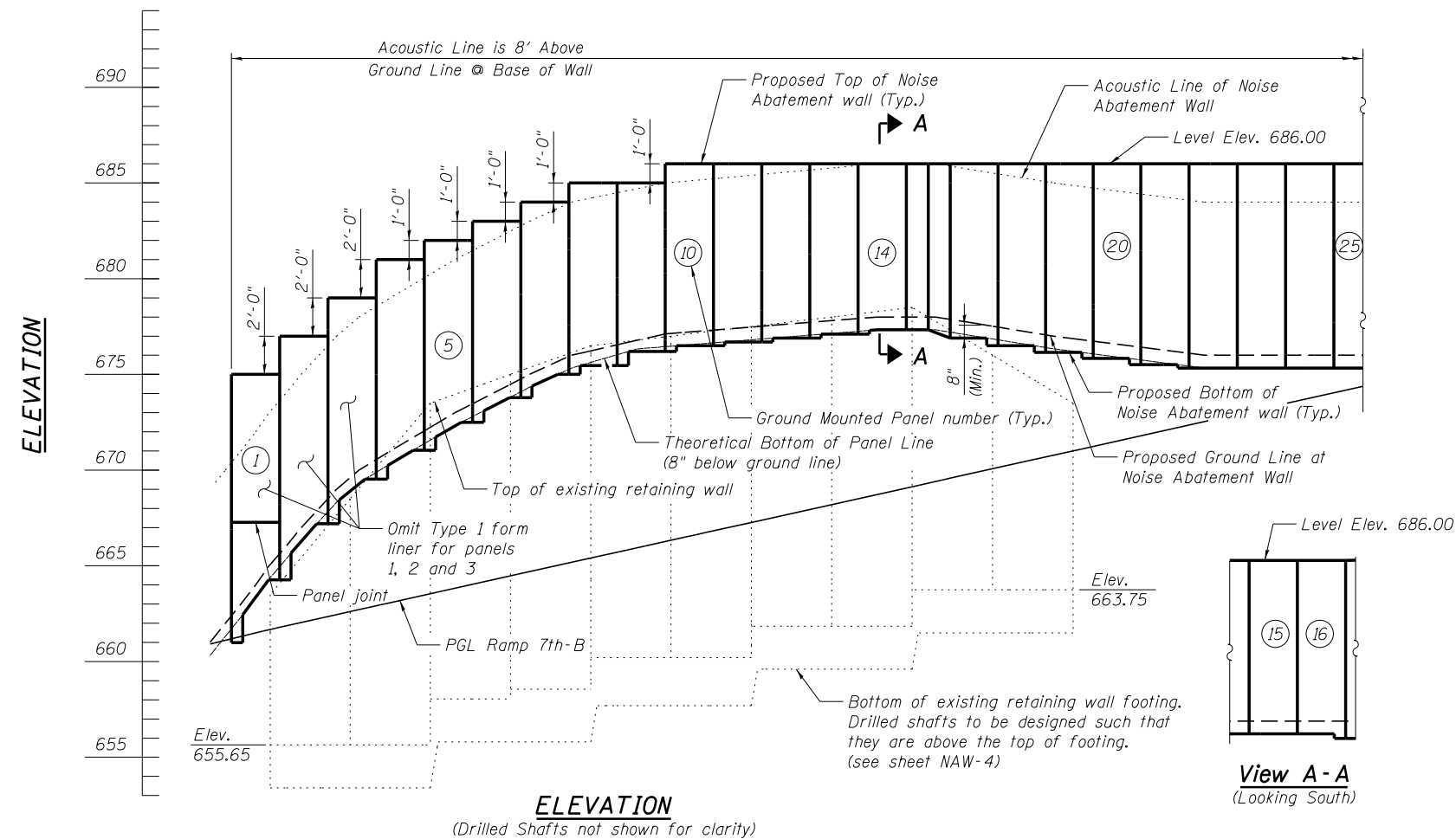
NOTES:

1. Post spacing shall be set at 15'-0" for the entire length of the wall, except for wall mounted on structure.
2. Offsets are to the Front Face of Noise wall.



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
 NOISE ABATEMENT WALL 8
 SEC. (81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)
 ROCK ISLAND COUNTY
 STA. 64+09.31 TO STA. 77+19.73**



PLAN

benesch
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FILE NAME = P202301-6408-001-General Plan and Elevation (1 of 3).dgn	USER NAME = ksnyder	DESIGNED - DMS/DTS	REVISED -
MODEL: Default	PLOT SCALE =	CHECKED - AJK/TPS	REVISED -
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		CHECKED - AJK/TPS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

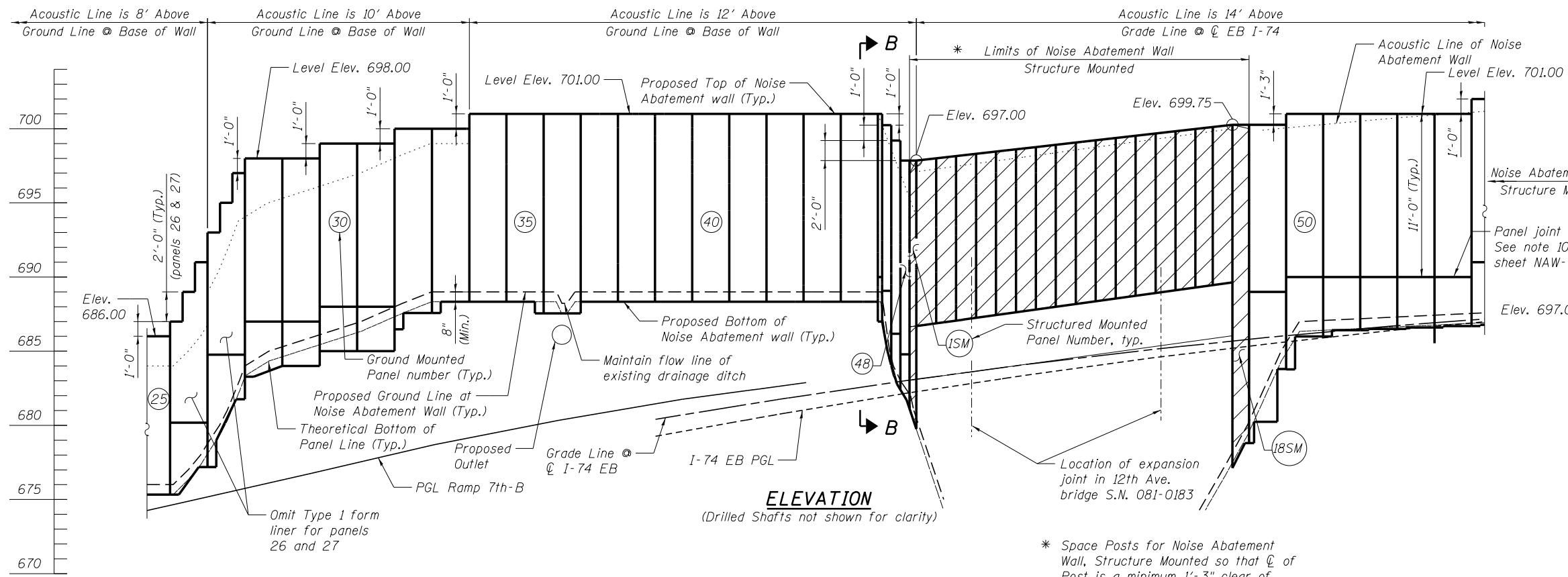
**GENERAL PLAN AND ELEVATION (1 OF 3)
 NOISE ABATEMENT WALL 8**

SHEET NO. NAW-1 OF 21 SHEETS

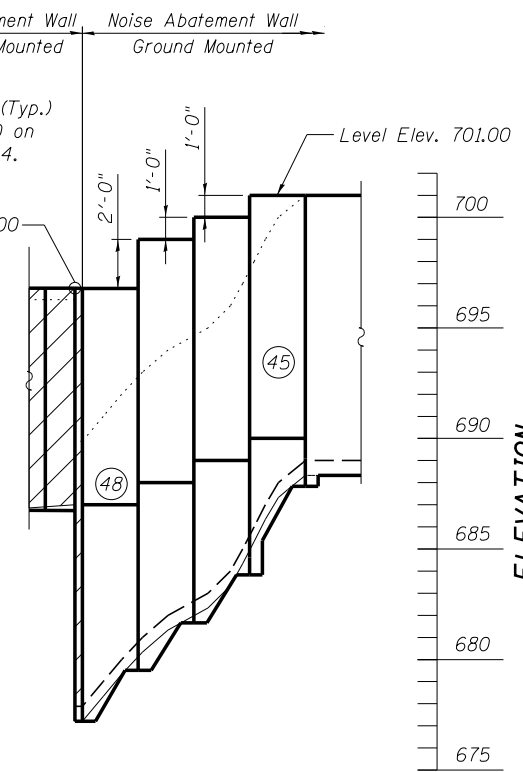
F.A.I. RTE. 74	SECTION (81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	COUNTY ROCK ISLAND	TOTAL SHEETS 2042	SHEET NO. 1508
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

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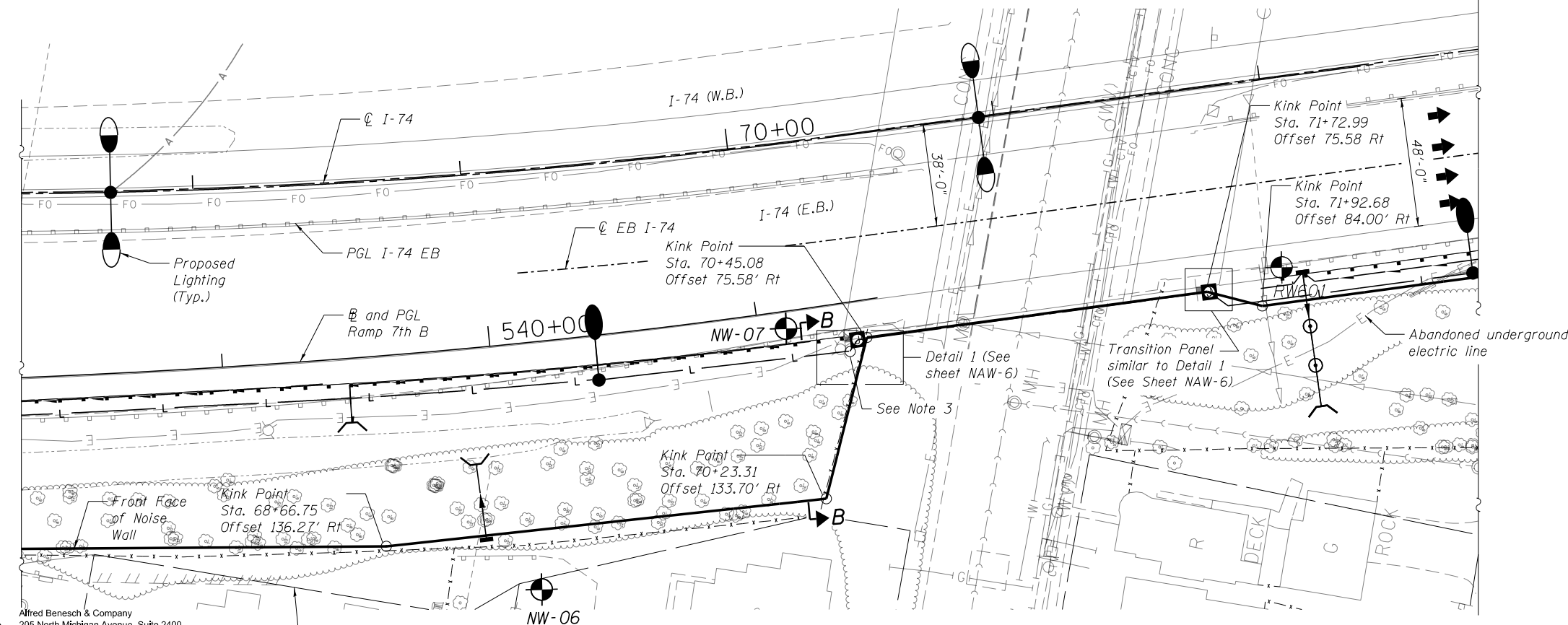
ELEVATION



ELEVATION
(Drilled Shafts not shown for clarity)



View B-B
(Looking South)



PLAN

- NOTES:**
- 1) Post spacing shall be set at 15'-0" for the entire length of the wall, except for wall mounted on structure.
 - 2) See sheet NAW-1 for Legend.
 - 3) Place Lighting conduit to avoid proposed shaft locations. Typical at all utility crossings.
 - 4) Offsets are to the front face of the Noise wall.

benesch
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FILE NAME : --VP203201-64C08-002-General Plan and Elevation (2 of 3).dgn	USER NAME : #USER#	DESIGNED - DMS/DTS	REVISED -
MODEL : #MODEL	PLOT SCALE :	CHECKED - AJK/TPS	REVISED -
	PLOT DATE : 5/4/2017	DRAWN - KMS	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION (2 OF 3)
 NOISE ABATEMENT WALL 8
 SHEET NO. NAW-2 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1509
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

P9203201-64C08-002-General Plan and Elevation (2 of 3).dgn
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 5/4/2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

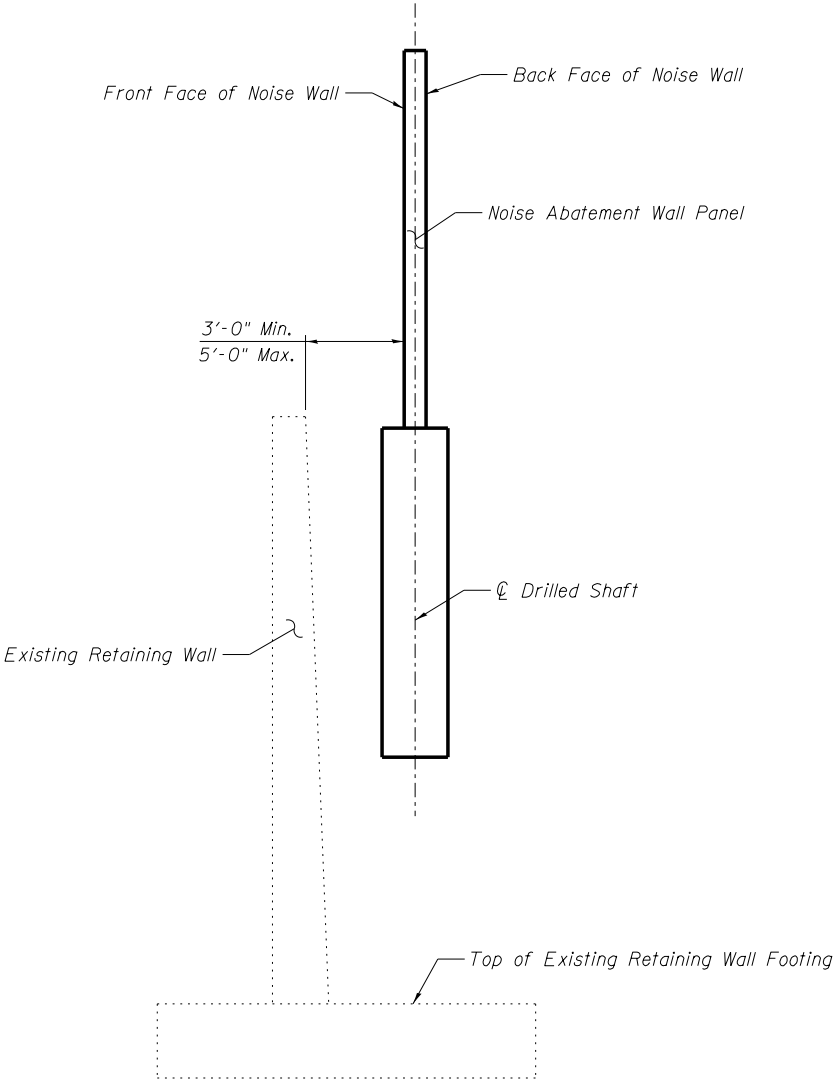
1. All Reinforcement including the Welded Wire Fabric shall be Epoxy Coated.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See special provisions.
3. Welded Wire Fabric shall be according to AASHTO M55.
4. The stresses developed in the Panels and Posts during shipping, storage, transportation and erection shall be accounted for. It is the responsibility of the Contractor to provide additional reinforcement or bracing if necessary to address these items as suitable to his operations subject to approval by the Engineer.
5. Existing fence along the ROW shall be removed. See Removal Plans. Any damage to remaining portion of fence shall be repaired by the Contractor at no additional expense to the Department.
6. Contractor to avoid existing and proposed underground utilities and drainage structures.
7. The contractor shall verify and consider the locations of overhead and underground utilities prior to wall erection.
8. All ground mounted panel tops shall be placed horizontally with any changes in elevation accomplished by stepping adjacent panel sections at posts, unless otherwise shown. Steps shall be at locations shown.
9. Any removal of existing trees and utilities are to be performed prior to construction of Noise Abatement Wall. See Removal Plans.
10. Ground Mounted Panels equal to or less than 13 feet tall shall be full height single panels. Panels taller than 13 feet shall not have a joint thru the Type 1 formliner pattern.

ADDITIONAL DESIGN CRITERIA

1. The architectural rustication to an extent of the maximum groove depth on each face of the Ground Mounted Panel is considered structurally ineffective and shall not be considered for strength except when checking for crack control.
2. (a) Post Base Plate and connection to Drilled Shafts shall be designed for strength for both erection loads and service loads.
 (b) Shop or field welding of reinforcement bars is not allowed.
 (c) Grouted pockets in the Post on Panel shall be considered ineffective for strength or serviceability design.
 (d) The coefficient of friction between steel and grout is 0.45.

LOADING

Wind = 25 psf (Ground Mounted)
 Wind = 35 psf (Structure Mounted)



TYPICAL SECTION AT NOISE WALL PANELS 1-19

TOTAL BILL OF MATERIAL

Item	Unit	Total
Concrete Superstructure	Cu. Yd	15.5
Reinforcement Bars, Epoxy Coated	Pound	1,900
Noise Abatement Wall, Ground Mounted	Sq. Ft	16,422
Noise Abatement Wall, Structure Mounted	Sq. Ft	1,478

Note: For the method of measurement of the Noise Abatement Wall, Ground Mounted, see sheet NAW-5 and Special Provisions.

benesch
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FILE NAME = ...VP9203201-64C08-004-General Notes.dgn	USER NAME = #USER#	DESIGNED - DMS/DTS	REVISED -
MODEL = #MODEL	PLOT SCALE =	CHECKED - AJK/TPS	REVISED -
	PLOT DATE = 5/4/2017	DRAWN - KMS	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

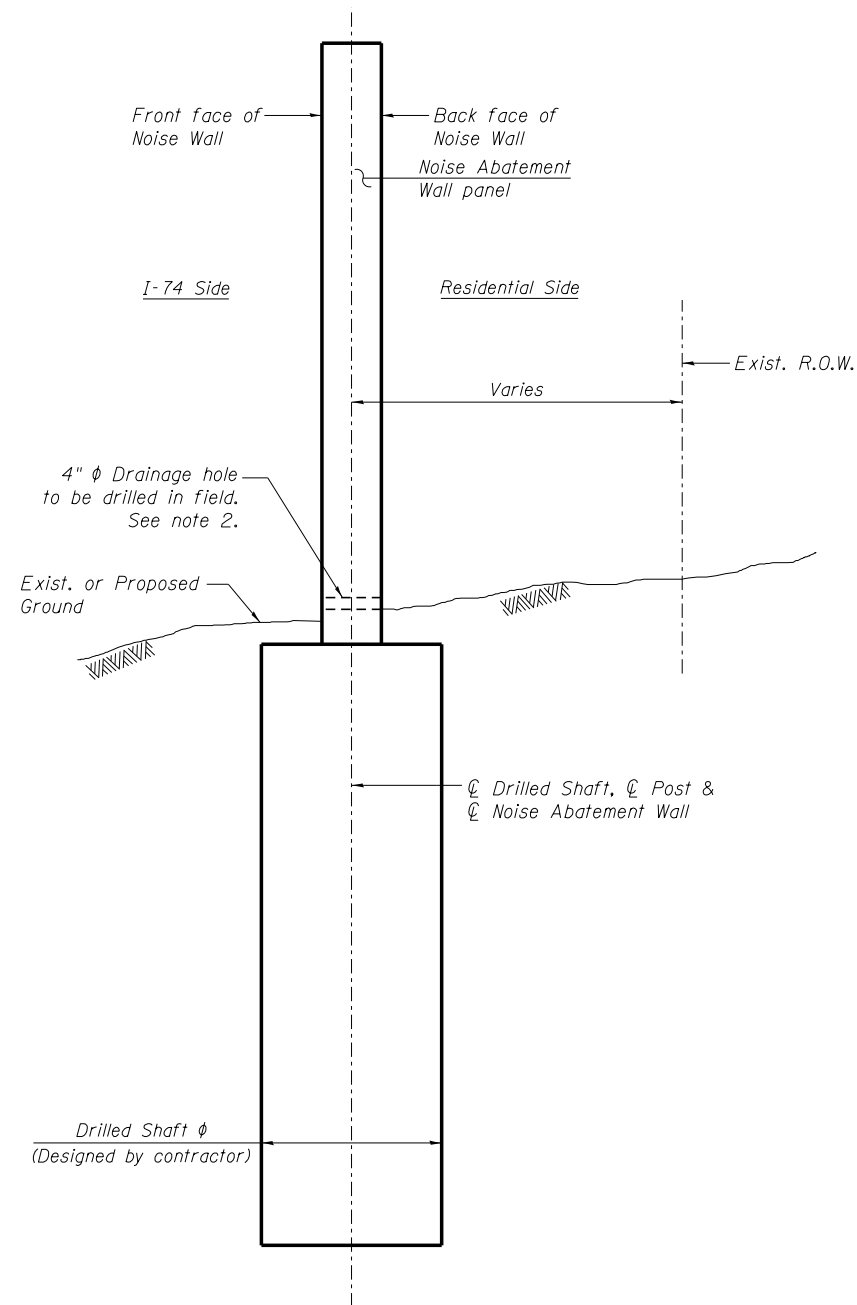
**GENERAL NOTES AND TOTAL BILL OF MATERIAL
NOISE ABATEMENT WALL 8**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1511
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

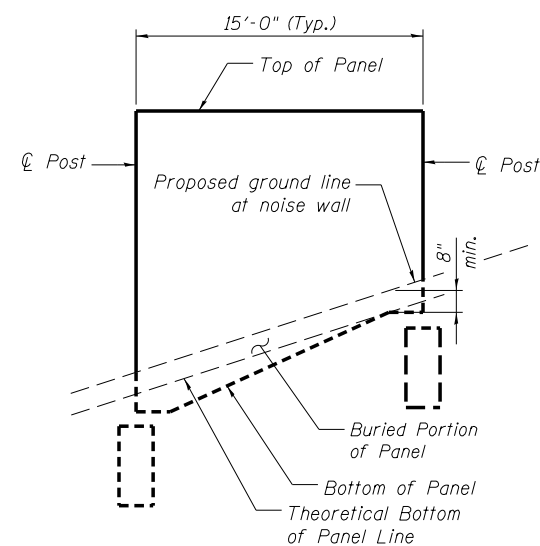
SHEET NO. NAW-4 OF 21 SHEETS

P9203201-64C08-004-General Notes.dgn 5:35:35 PM 5/4/2017

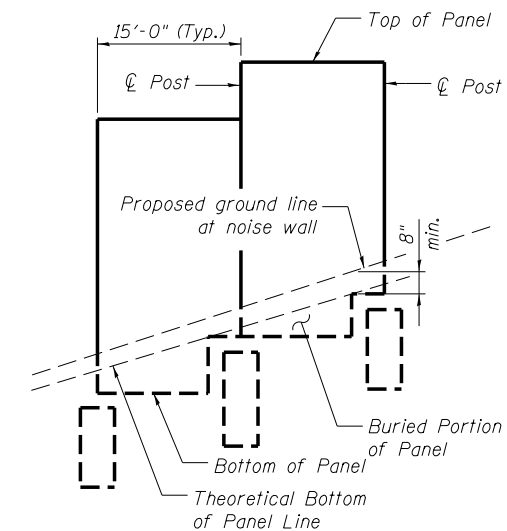
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



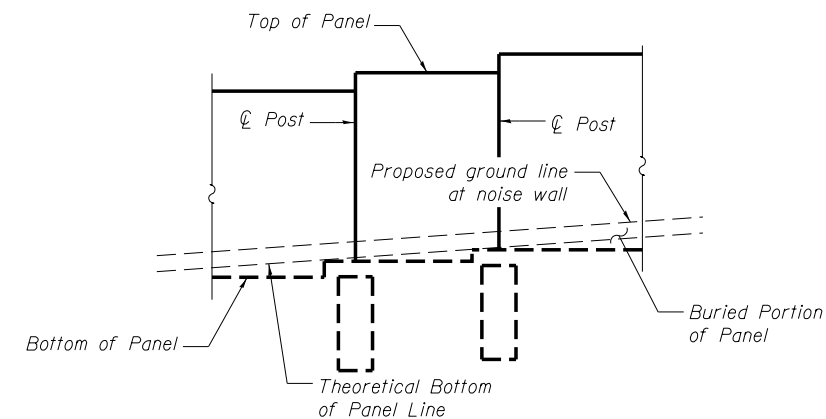
TYPICAL CROSS SECTION
(Ground Mounted Noise Wall)



ALTERNATE DETAIL 1



ALTERNATE DETAIL 2



METHOD OF MEASUREMENT OF WALL AREA FOR NOISE ABATEMENT WALL, GROUND MOUNTED

The Method of Measurement of quantity of Noise Abatement Wall is based on the cumulative area of Panels in Elevation View bounded by the ϕ Posts, Top of Panel & Theoretical Bottom of Panel line. Alternates 1 and 2 apply to the contract options. See Special Provisions.

NOTES:

- Type and size of posts, noise wall panels, drilled shaft size and embedment length, reinforcement details, lifting bars and wall limits including bottom of wall shall be determined by the ground mounted noise wall supplier during construction.
- 4" ϕ drainage holes shall be field drilled through ground mounted wall panels as required to facilitate surface drainage with a maximum of one hole per panel. Location to be determined by the engineer. Cost included with Noise Abatement Wall, Ground Mounted.



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

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CHECKED - AJK/TPS
PLOT SCALE =
DRAWN - KMS
PLOT DATE = 3/23/2017
CHECKED - AJK/TPS
REVISED -

DESIGNED - DMS/DTS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS (1 OF 3)
NOISE ABATEMENT WALL 8

SHEET NO. NAW-5 OF 21 SHEETS

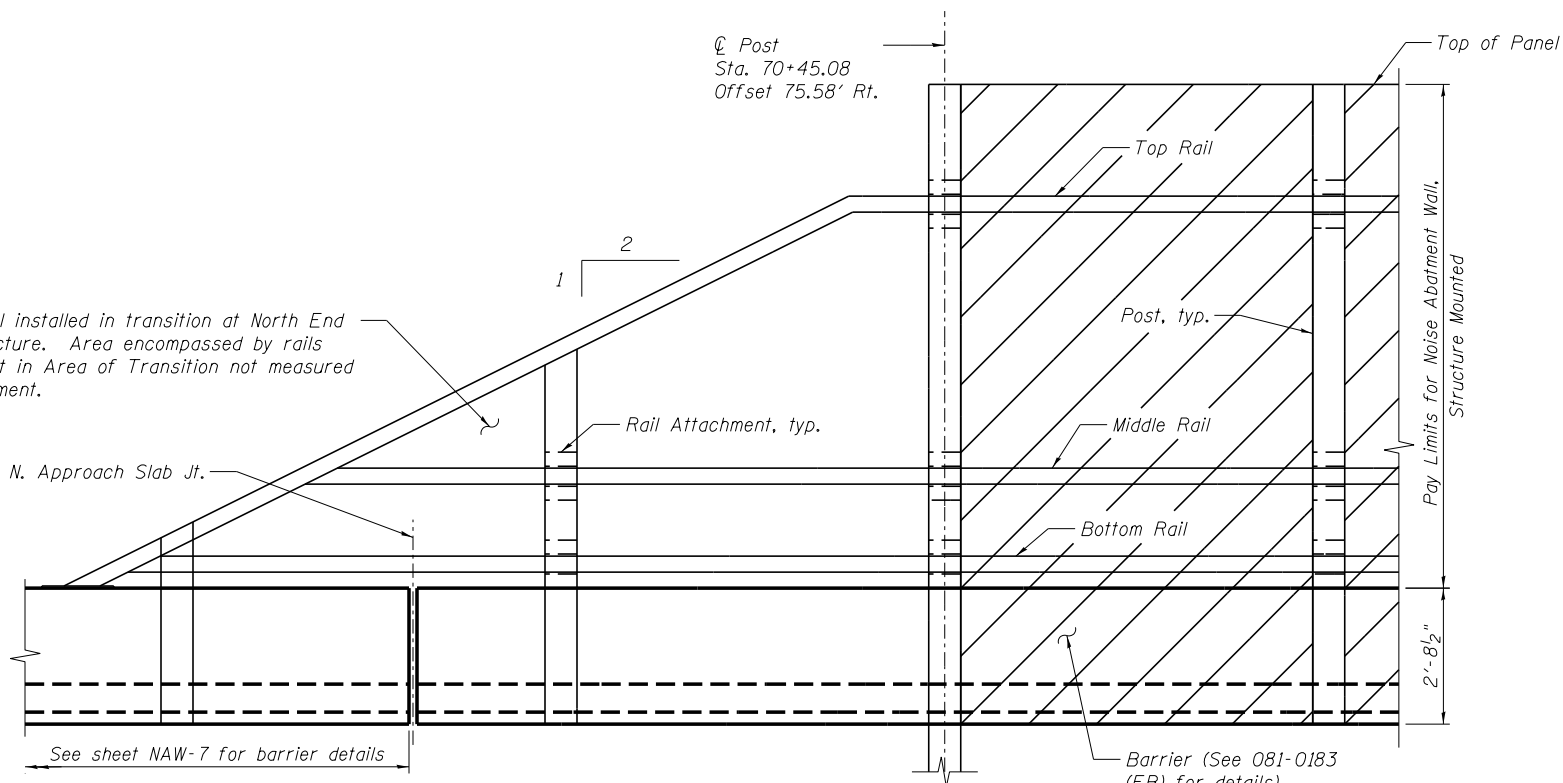
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1512
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT

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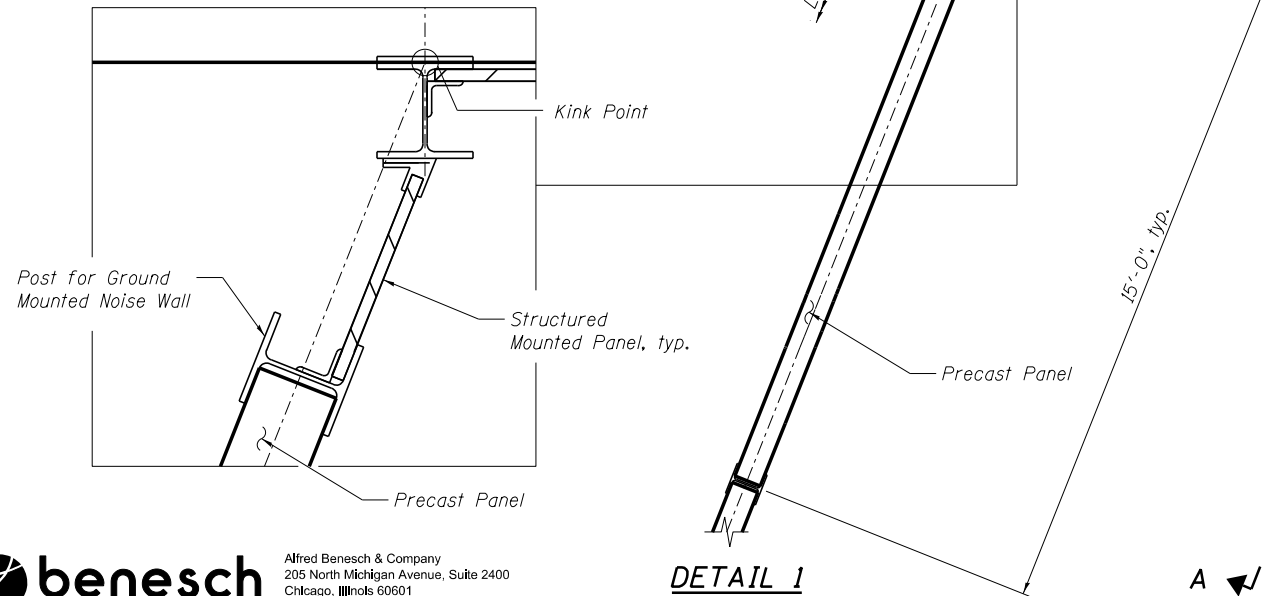
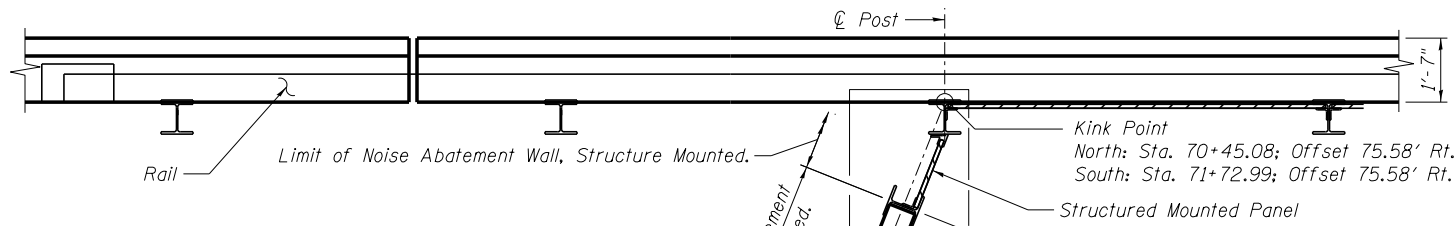
No panel installed in transition at North End of Structure. Area encompassed by rails and post in Area of Transition not measured for payment.

☉ N. Approach Slab Jt.



SCHMATIC OF STRUCTURE MOUNTED NOISEWALL TRANSITION AT NORTH END OF STRUCTURE

(No transition needed at S. end of wall mounted on structure. Last post attached to structure at kink pt. station 71+72.99)



DETAIL 1

(North End Shown, South End Similar)

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME :
--VP203201-64C08-005a-Details(2of2).dgn

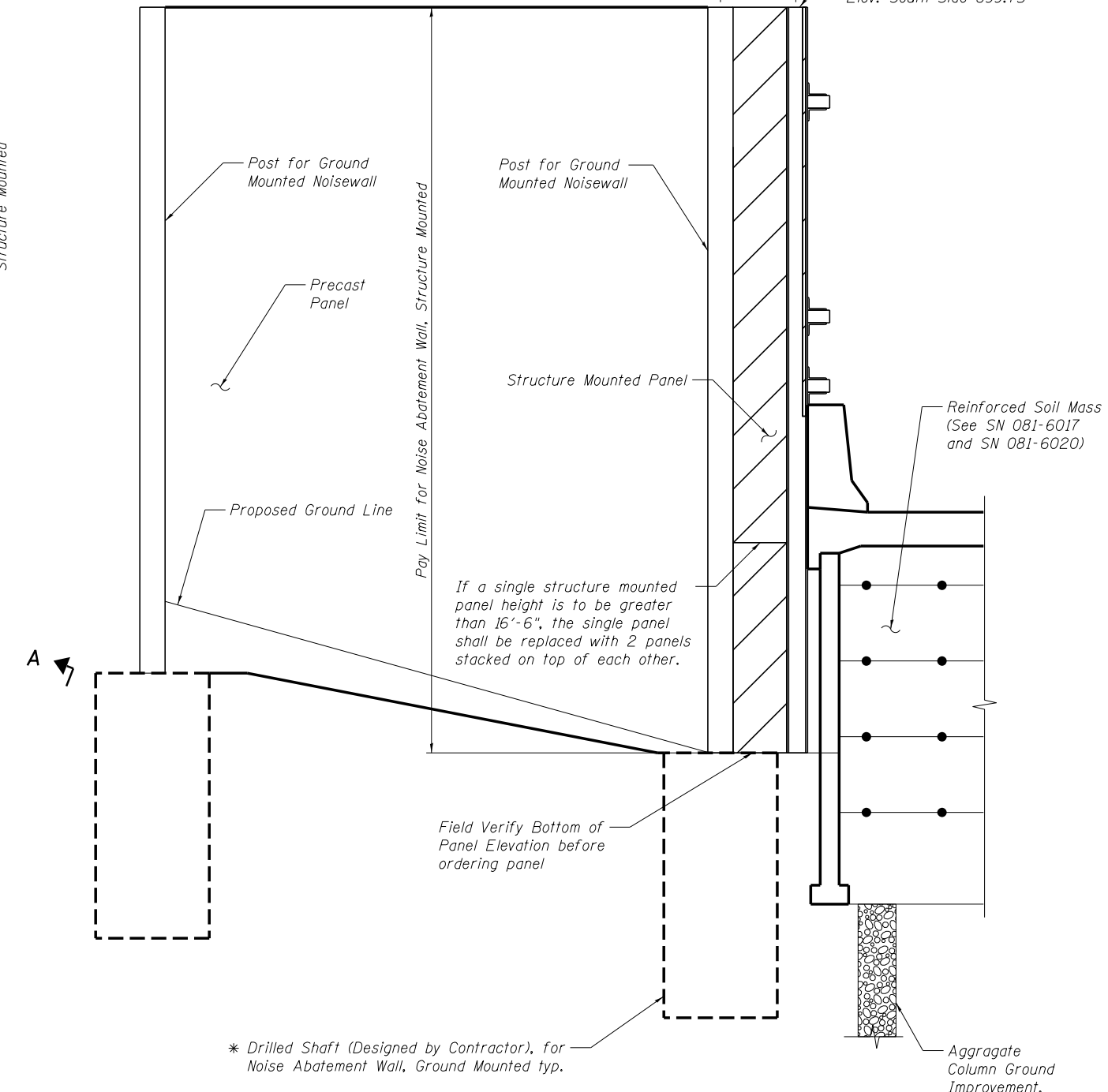
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REVISD -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

North End Noise Abatement Wall Structure Mounted 2'-0"±
South End Noise Abatement Wall Structure Mounted 6'-4"±

Elev. North Side 697.00
Elev. South Side 699.75



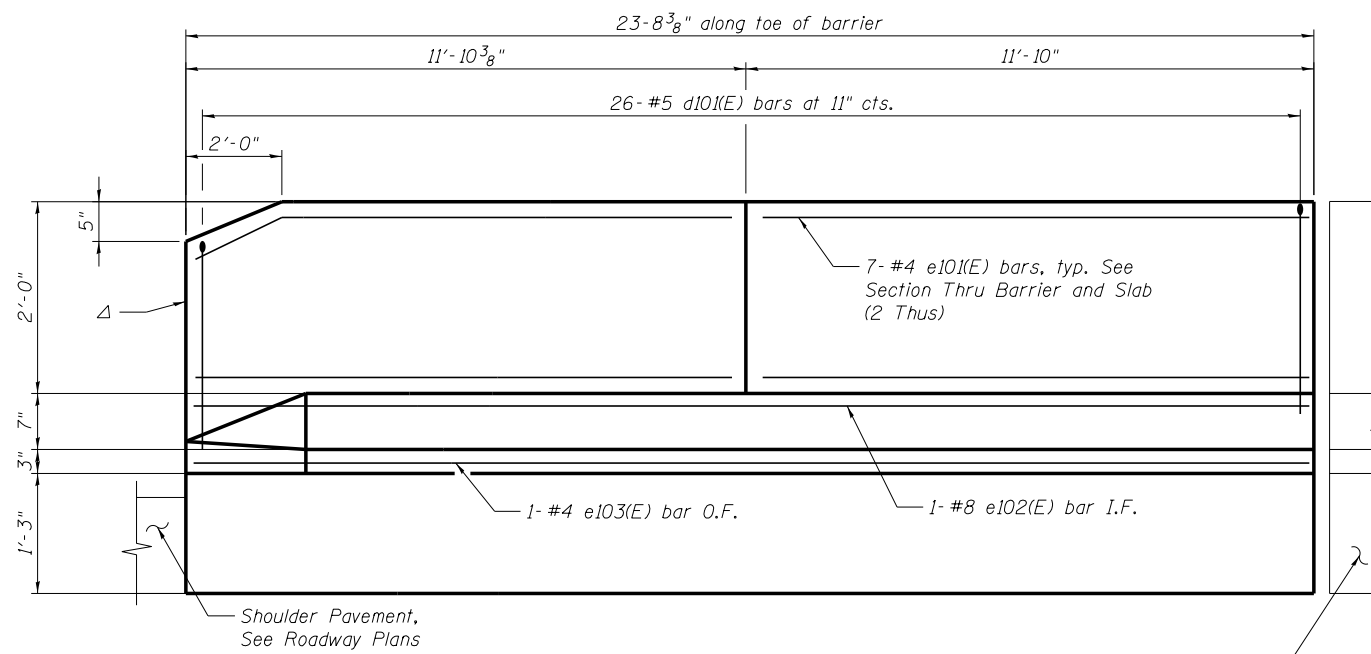
VIEW A-A

(North End Shown, South End Similar)

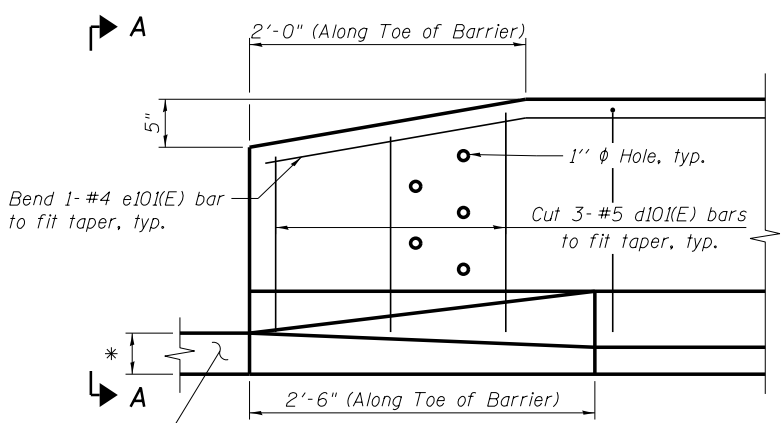
* Coordinate Drilled Shaft installation with installation of Aggragate Column Ground Improvement.

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				CHECKED - TPS	REVISD -		CONTRACT NO. 64E26		ILLINOIS FED. AID PROJECT		
				DRAWN - DTS	REVISD -						
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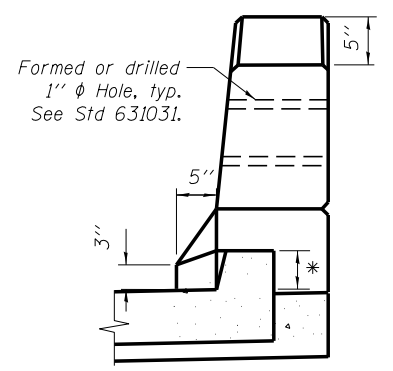
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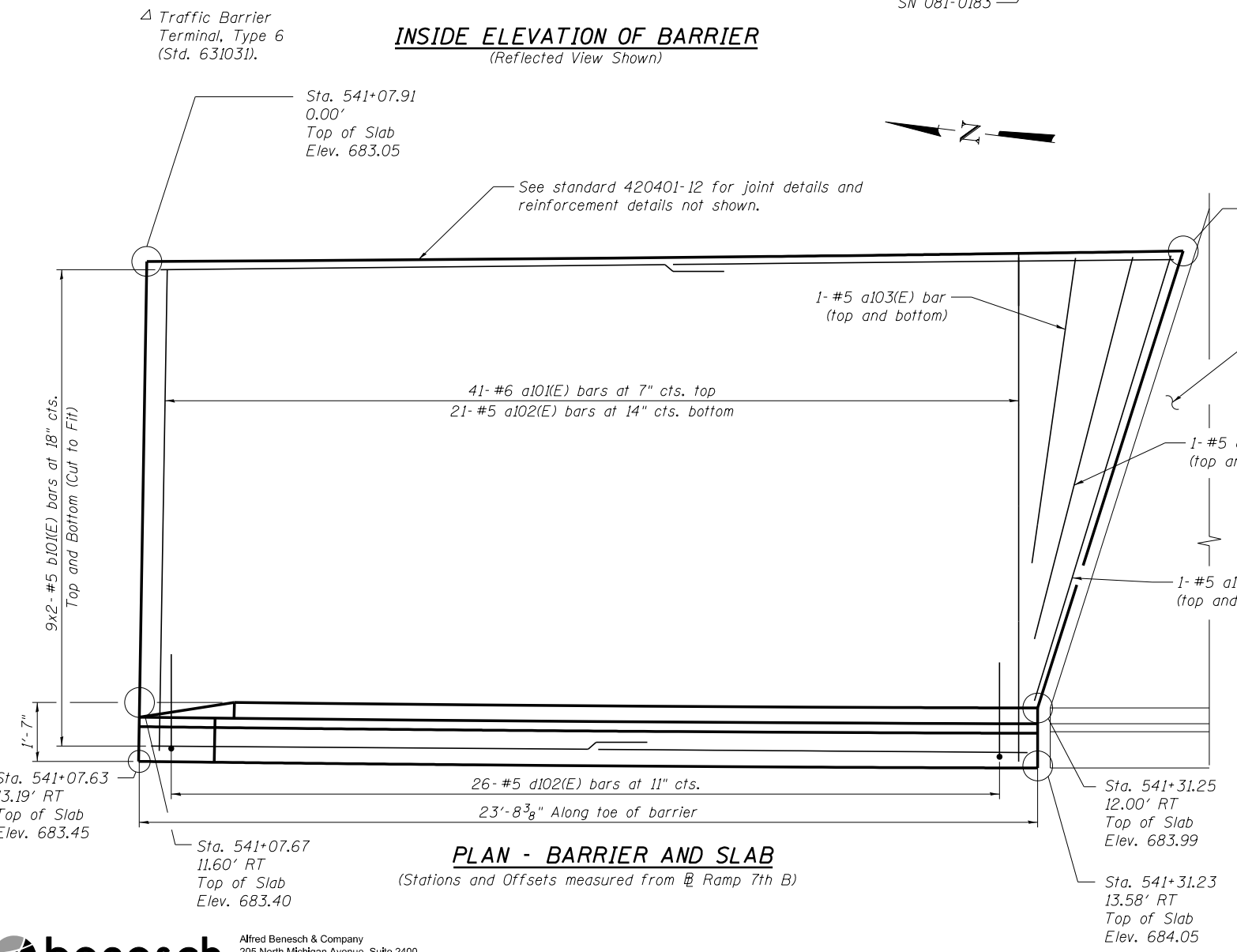
INSIDE ELEVATION OF BARRIER
(Reflected View Shown)



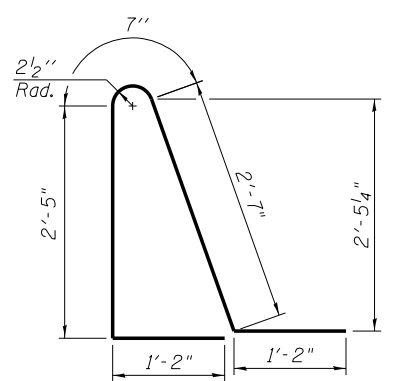
BARRIER END DETAIL



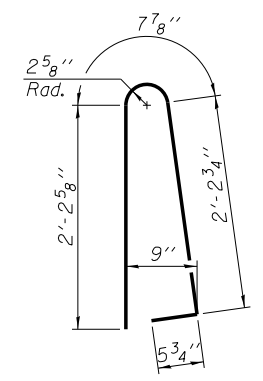
VIEW A-A



PLAN - BARRIER AND SLAB
(Stations and Offsets measured from Ramp 7th B)

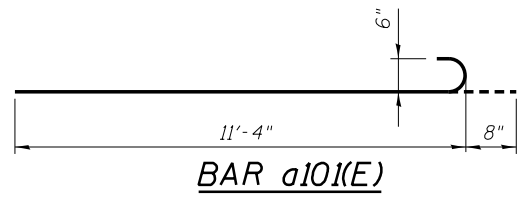


BAR d102(E)

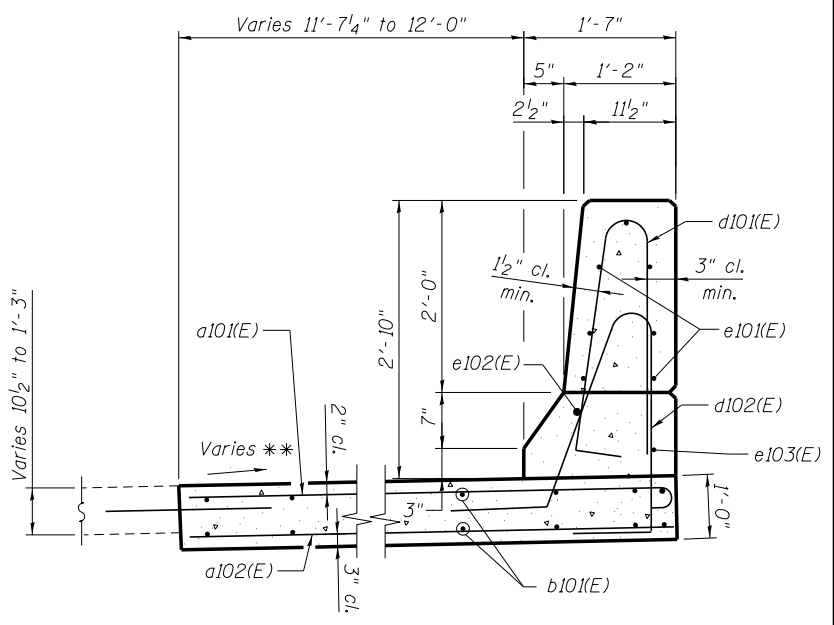


BAR d10(E)

MINIMUM BAR LAP
#5 bar = 3'-3"



BAR a10(E)



SECTION THRU BARRIER AND SLAB

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	41	#6	12'-0"	U
a102(E)	21	#5	11'-4"	—
a103(E)	2	#5	8'-3"	—
a104(E)	2	#5	10'-5"	—
a105(E)	2	#5	12'-3"	—
b10(E)	18	#5	15'-4"	—
d10(E)	26	#5	5'-7"	U
d102(E)	26	#5	7'-11"	U
e10(E)	14	#4	11'-6"	—
e102(E)	1	#8	23'-4"	—
e103(E)	1	#4	23'-4"	—
Concrete Superstructure		Cu. Yd.	15.5	
Reinforcement Bars, Epoxy Coated		Pound	1,900	

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

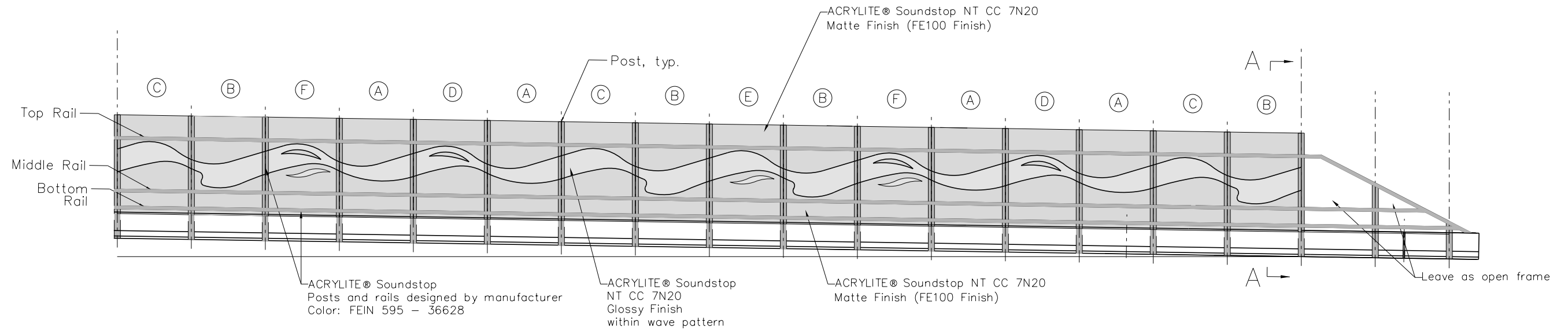
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	PLOT DATE =	DRAWN -	REVISED -
	5/4/2017	DTS	-
		CHECKED -	REVISED -
		TPS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS (3 OF 3)
NOISE ABATEMENT WALL 8
SHEET NO. NAW-7 OF 21 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1514
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

P9203201-64C08-005b-Details(3of3).dgn 6:17:01 PM 5/4/2017



NOISE WALL ON STRUCTURE
TYPICAL ELEVATION
LOOKING WEST

NOTE: Exact post spacing shall be determined at the time of shop drawing submittal. Current post spacing for panels receiving the wave pattern require 16 panels. Each panel has a corresponding letter above that represents the panel pattern. The pattern needs to appear on both sides of the panel and align exactly on the opposite side. Manufacturer to use same template to create the design. The approximate proposed sizes for each panel can be seen on the next 3 pages.

NOISE WALL PANEL FINISH NOTES

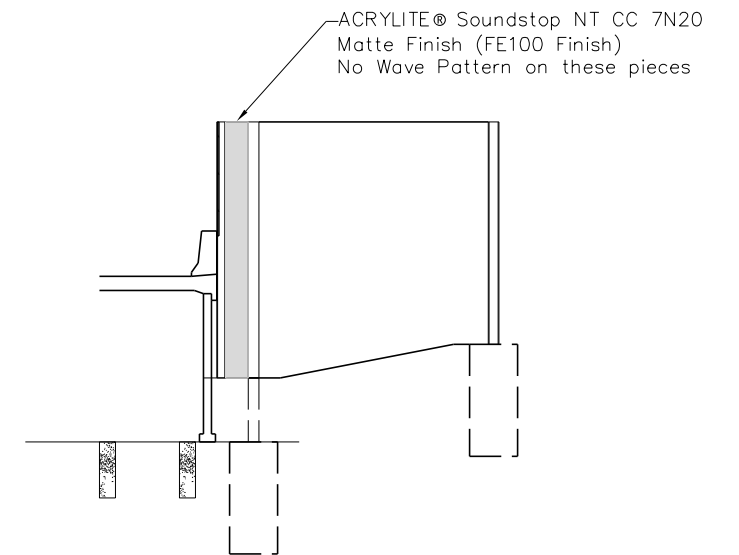
1. Submit 24 inch by 24 inch sample showing finish and a reduced size of wave pattern.
2. The structure mounted noise wall panels are a trapezoid shape due to the posts being plumb and not perpendicular to the concrete bridge barrier that they are attached to. Ensure the trapezoid shape is correct and works with final bridge design before producing the panels. Contractor to coordinate with manufacturer.
3. The structure mounted noise wall panels are to be an Opaque Grey color (ACRYLITE® NT CC 7N20. The wave pattern shall be the Glossy Finish (Original Panel Finish) and the areas above and below shall have a Matte Finish (ACRYLITE® FE100 Finish) as indicated on plans.
4. Ensure textures, colors, and pattern are uniform on each panel. The Wave Pattern should be positioned between the railings so that all parts of the Wave Pattern are visible. The top of the panels shall be flush with one another and the Wave Pattern on each panel should align with the next adjacent panel. Any alterations to this will need to be approved by the Engineer.
5. The Contractor shall verify all dimensions before ordering or fabricating panels. Any and all modifications to the panel design must be approved by the Engineer before noise wall panels are produced and installed.

PAINT SYSTEM AND COLOR NOTES (POST & RAILINGS):

1. The Organic Zinc Rich Primer/Epoxy/Fluoropolymer Paint System shall be used for painting of the new structural steel. The entire system shall be shop applied, with the exception of the masked off connection surfaces and field installed fasteners, all of which shall be touched up and finish coated in the field.
2. The color of the final finish coat shall be ACRYLITE® FEIN 595 Color - 36628. The final color shall be approved by the Engineer before steel is painted.

INSTALLATION NOTES:

1. Panel placement identified by letters (A-F) shown on elevation drawing above.
2. Posts shall be installed plumb to within a tolerance of $\pm \frac{1}{8}$ " in 8'-0" and on lines and spacing specified by manufacturer within $\pm \frac{1}{8}$ ".
3. The Contractor shall verify all dimensions before ordering or fabricating any material. The Engineer shall be notified of any discrepancies prior to commencing with construction.
4. No modifying, cutting, deforming, or changing of any of the parts of the structure mounted noise wall system will be allowed without the Engineers and Manufacturers written approval.

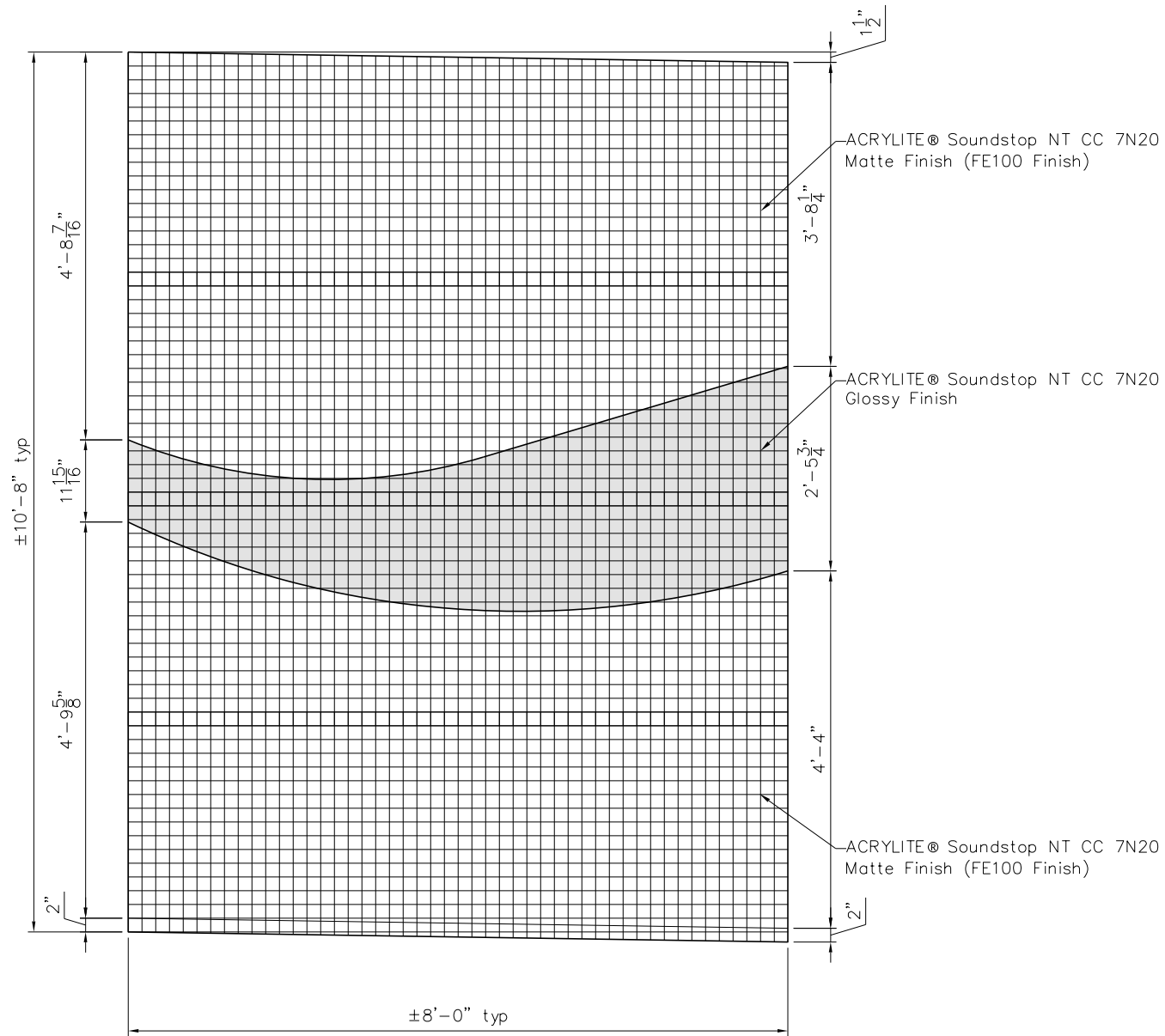


SECTION A:

NOISE WALL ON STRUCTURE
CONNECTION TO CONCRETE
NOISE WALL SECTION

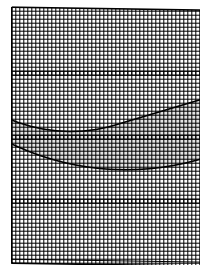
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MODEL: #MODEL	PLOT DATE = 3/21/2017	CHECKED - HCR	REVISED -	SHEET NO. NAW-7 OF 21 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64E26		

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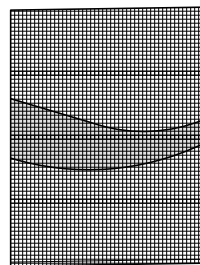


TYPE A- ACRYLITE® SOUNDSTOP PANEL ELEVATION

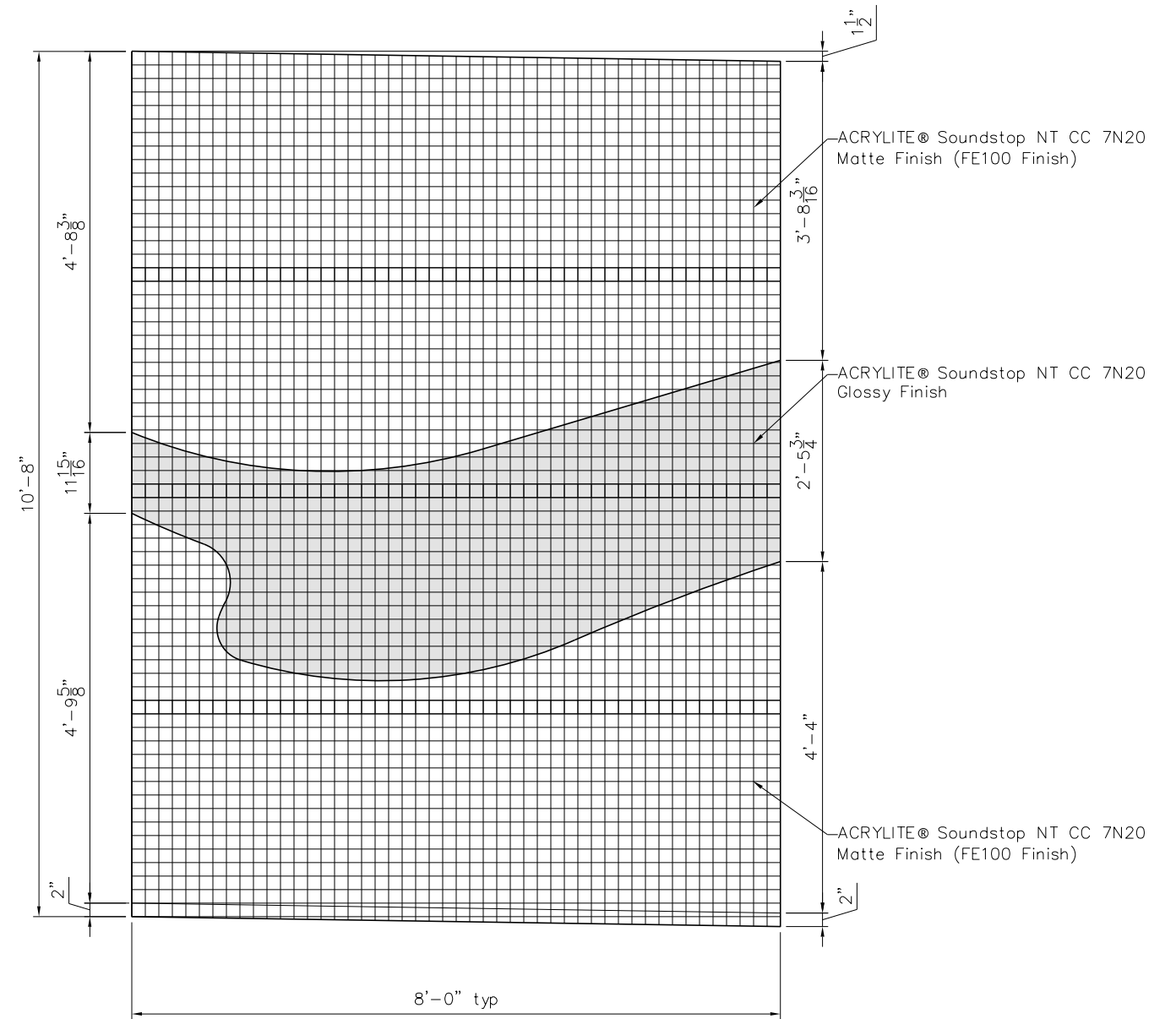
NOTE: These dimensions are a basis of design and will need to be scaled proportionately to fit the final panel sizes. This view is from the traffic side (looking west). The wave pattern and matte finish needs to be implemented the exact same on the opposite side of the panels. Use the same template for both sides so the wave aligns exactly. See reverse side below (looking east).



LOOKING WEST

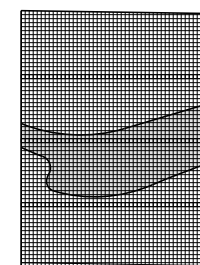


LOOKING EAST

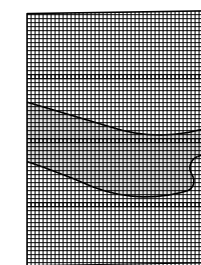


TYPE B- ACRYLITE® SOUNDSTOP PANEL ELEVATION

NOTE: These dimensions are a basis of design and will need to be scaled proportionately to fit the final panel sizes. This view is from the traffic side (looking west). The wave pattern and matte finish needs to be implemented the exact same on the opposite side of the panels. Use the same template for both sides so the wave aligns exactly. See reverse side below (looking east).



LOOKING WEST



LOOKING EAST

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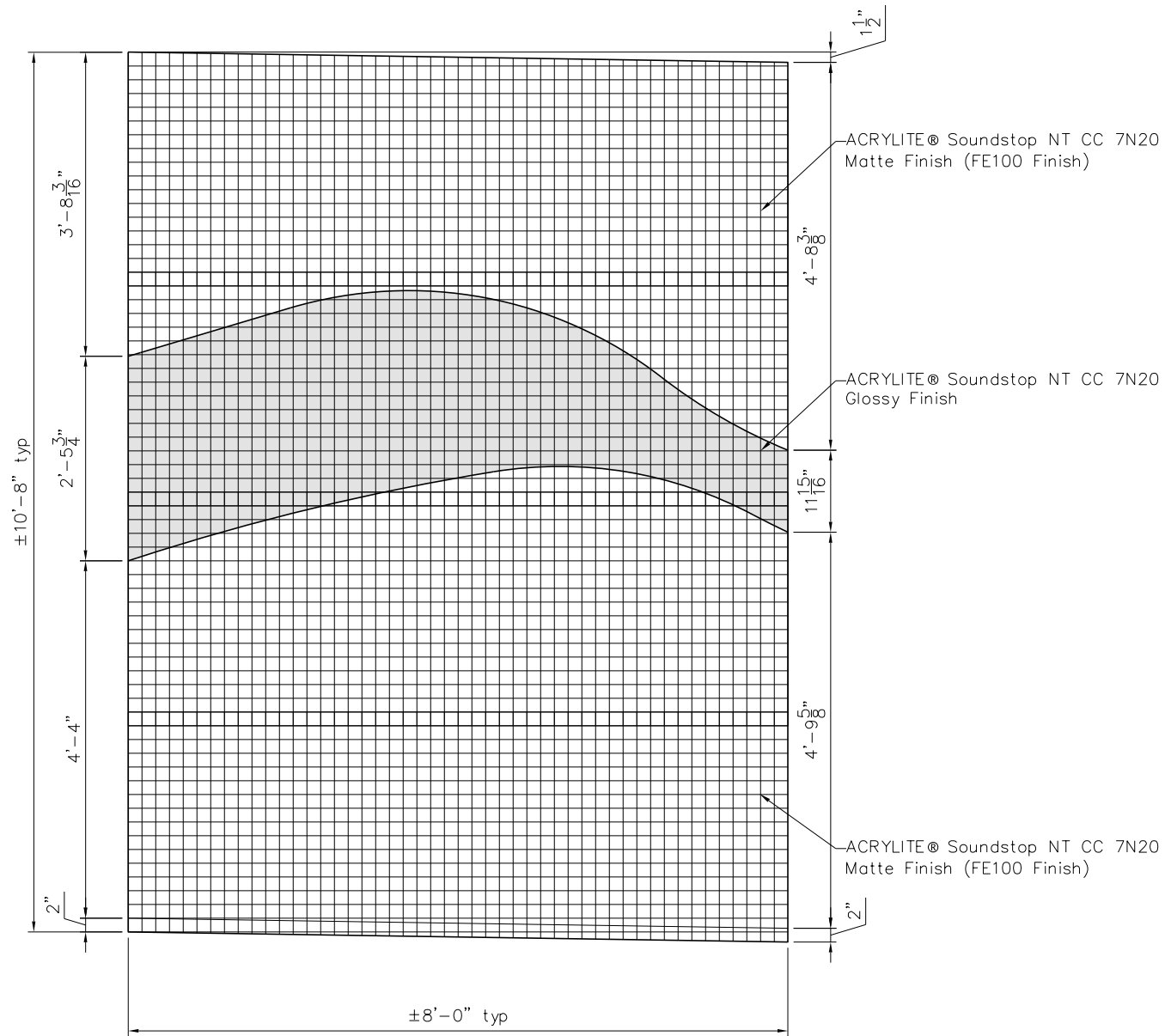
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AESTHETIC DETAILS STRUCTURE MOUNTED (2 OF 4)
NOISE ABATEMENT WALL 8

SHEET NO. NAW-8 OF 21 SHEETS

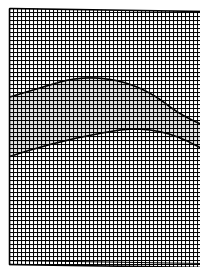
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			CONTRACT NO. 64E26	

ILLINOIS FED. AID PROJECT

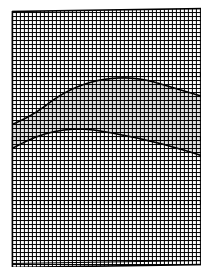


TYPE C – ACRYLITE® SOUNDSTOP PANEL ELEVATION

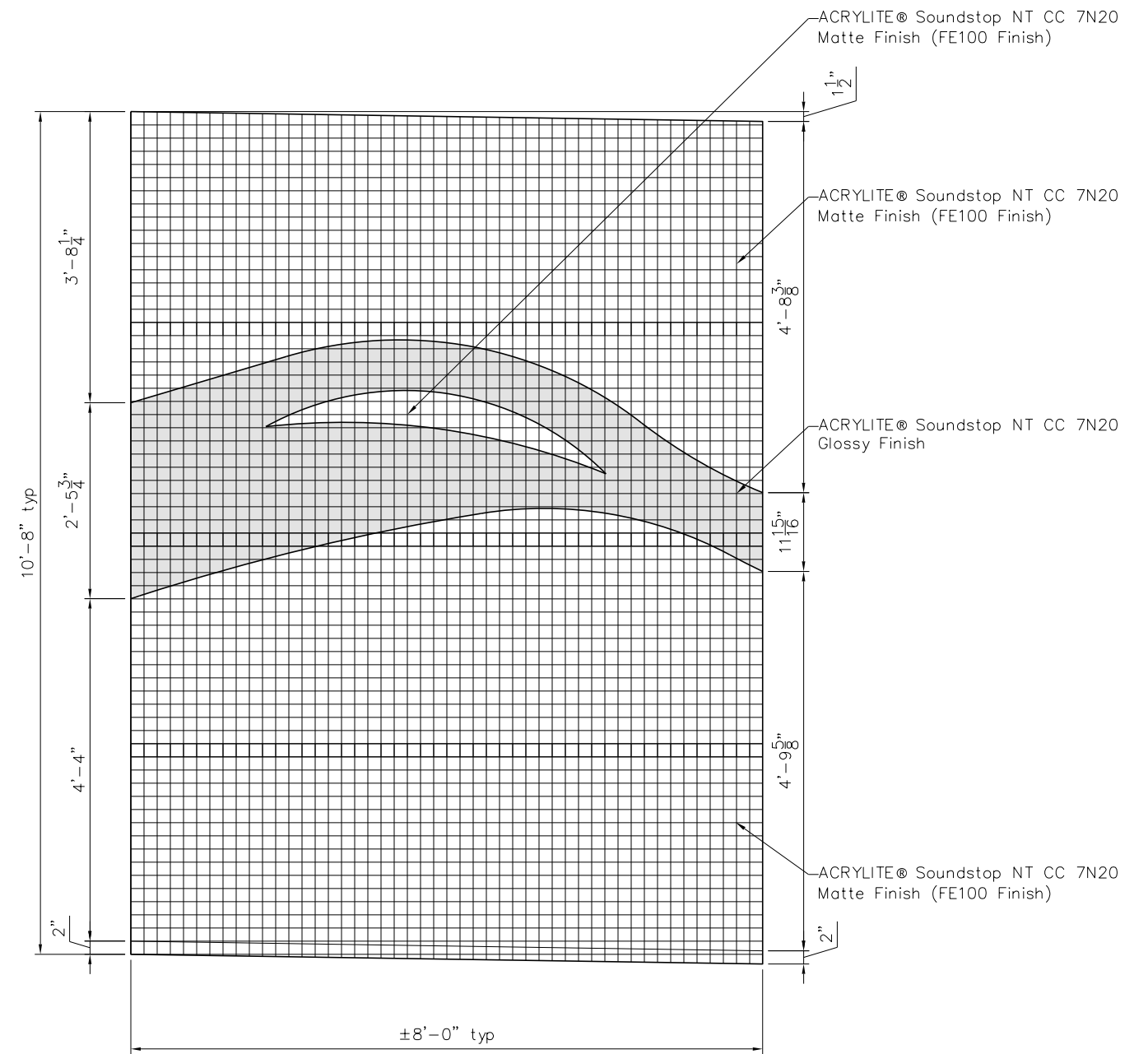
NOTE: These dimensions are a basis of design and will need to be scaled proportionately to fit the final panel sizes. This view is from the traffic side (looking west). The wave pattern and matte finish needs to be implemented the exact same on the opposite side of the panels. Use the same template for both sides so the wave aligns exactly. See reverse side below (looking east).



LOOKING WEST

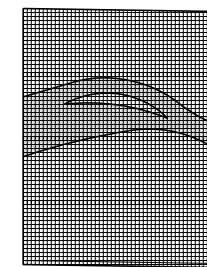


LOOKING EAST

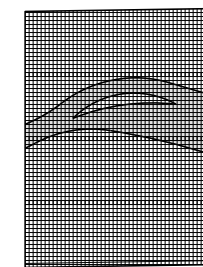


TYPE D – ACRYLITE® SOUNDSTOP PANEL ELEVATION

NOTE: These dimensions are a basis of design and will need to be scaled proportionately to fit the final panel sizes. This view is from the traffic side (looking west). The wave pattern and matte finish needs to be implemented the exact same on the opposite side of the panels. Use the same template for both sides so the wave aligns exactly. See reverse side below (looking east).



LOOKING WEST



LOOKING EAST

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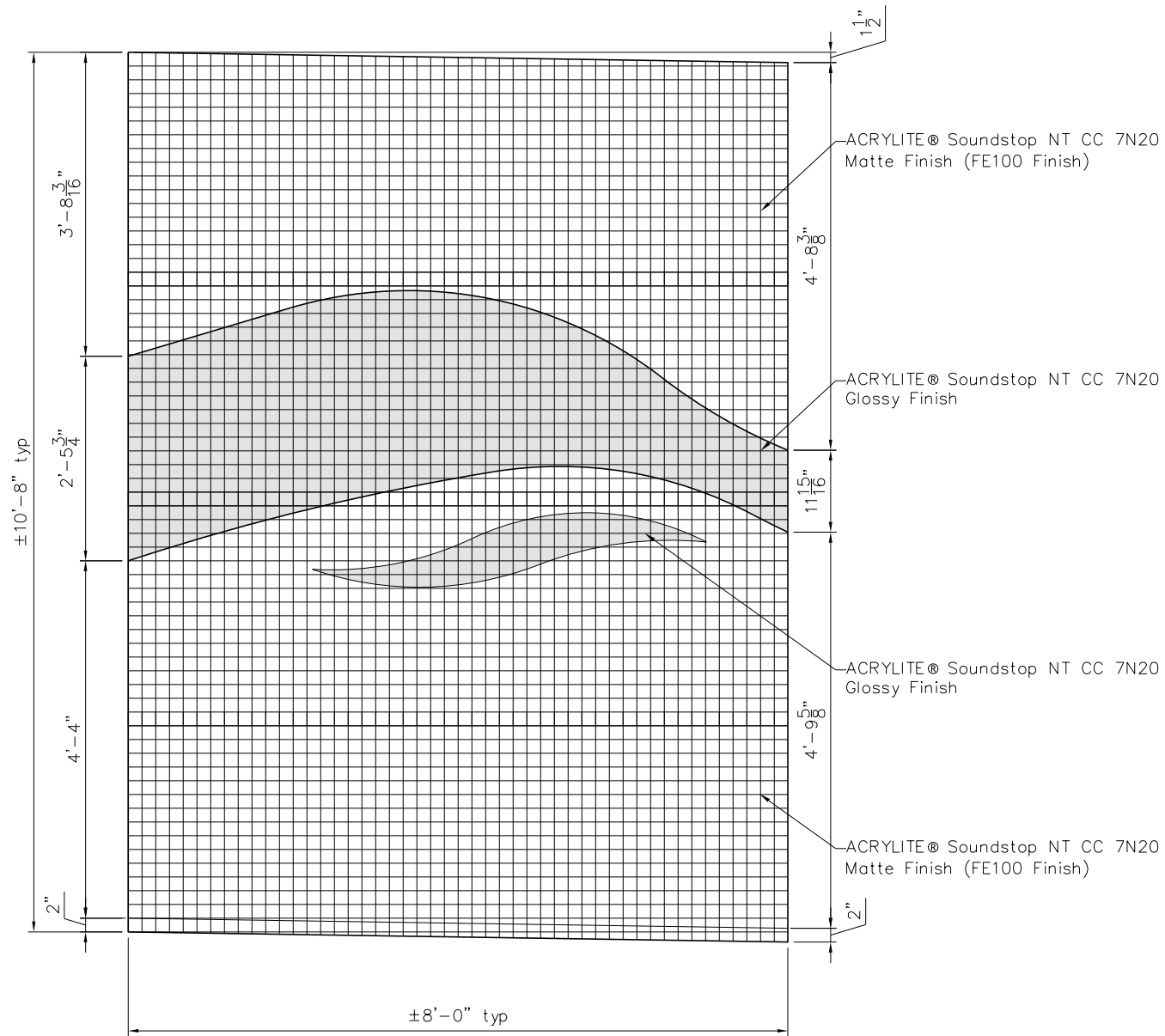
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS STRUCTURE MOUNTED (3 OF 4)
NOISE ABATEMENT WALL 8**

SHEET NO. NAW-9 OF 21 SHEETS

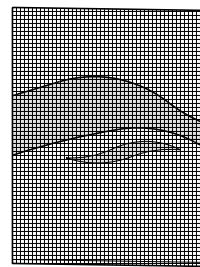
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			CONTRACT NO. 64E26	

ILLINOIS FED. AID PROJECT

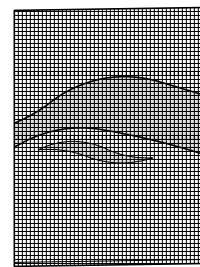


TYPE E- ACRYLITE® SOUNDSTOP PANEL ELEVATION

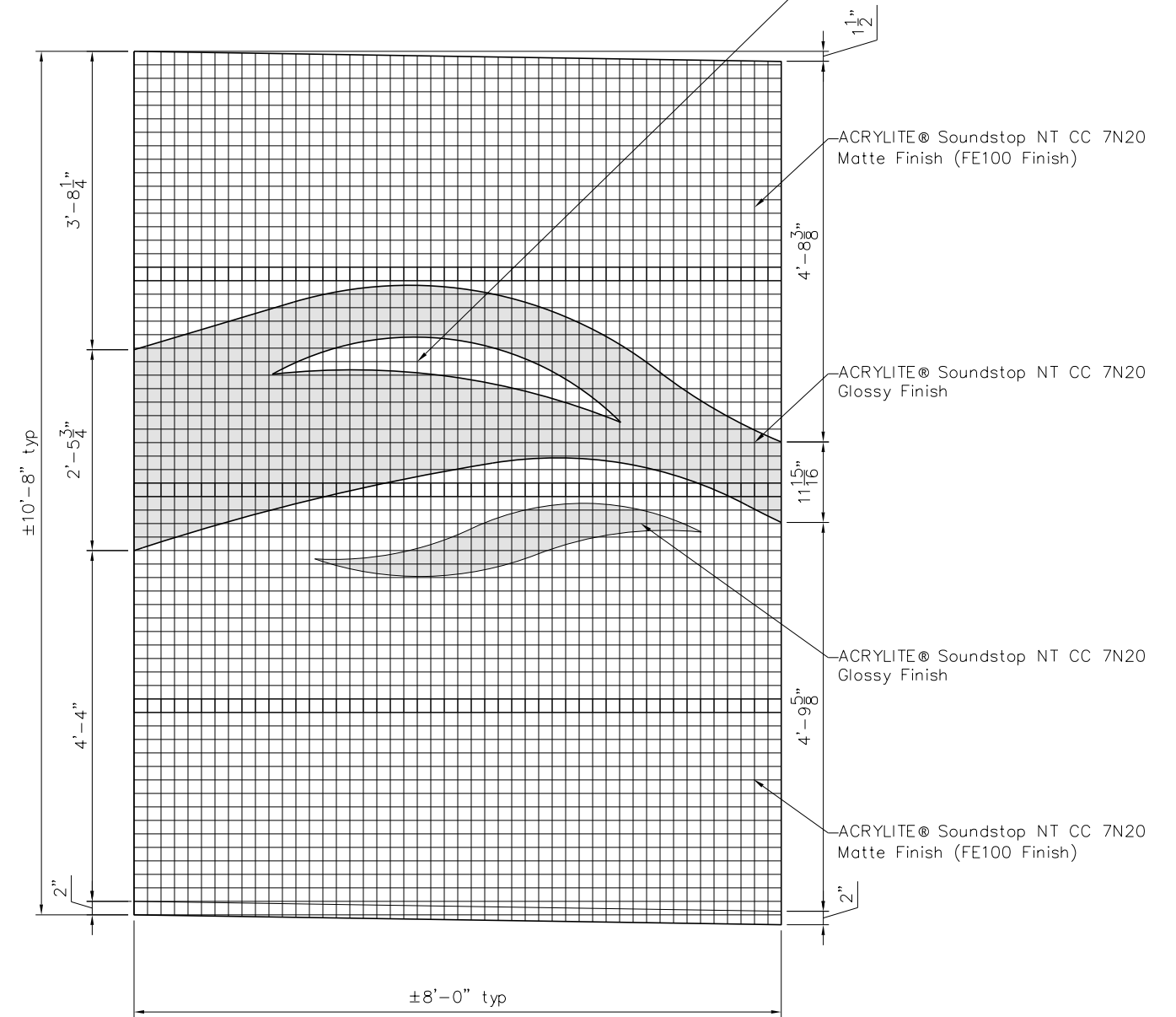
NOTE: These dimensions are a basis of design and will need to be scaled proportionately to fit the final panel sizes. This view is from the traffic side (looking west). The wave pattern and matte finish needs to be implemented the exact same on the opposite side of the panels. Use the same template for both sides so the wave aligns exactly. See reverse side below (looking east).



LOOKING WEST

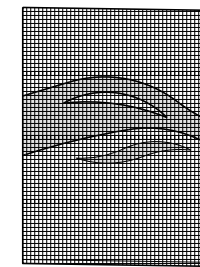


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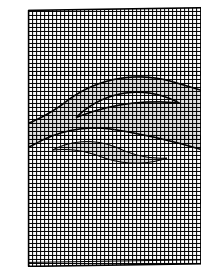


TYPE F- ACRYLITE® SOUNDSTOP PANEL ELEVATION

NOTE: These dimensions are a basis of design and will need to be scaled proportionately to fit the final panel sizes. This view is from the traffic side (looking west). The wave pattern and matte finish needs to be implemented the exact same on the opposite side of the panels. Use the same template for both sides so the wave aligns exactly. See reverse side below (looking east).



LOOKING WEST



LOOKING EAST

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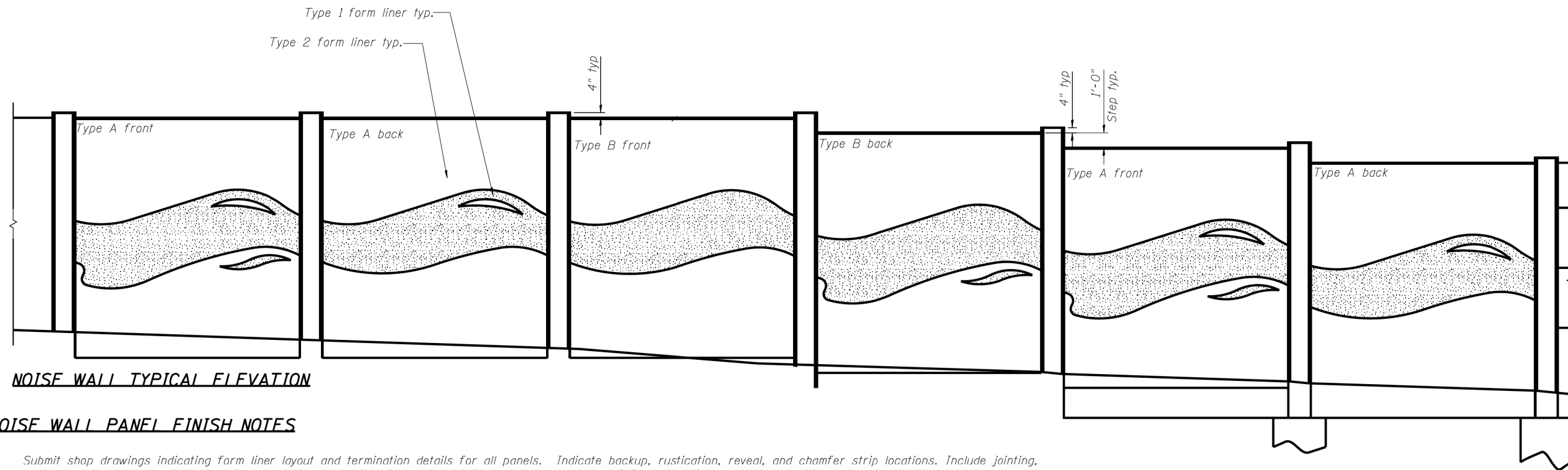
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AESTHETIC DETAILS STRUCTURE MOUNTED (4 OF 4)
NOISE ABATEMENT WALL 8

SHEET NO. NAW-10 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1518
			CONTRACT NO. 64E26	

ILLINOIS FED. AID PROJECT



NOISE WALL TYPICAL ELEVATION

NOISE WALL PANEL FINISH NOTES

1. Submit shop drawings indicating form liner layout and termination details for all panels. Indicate backup, rustication, reveal, and chamfer strip locations. Include jointing, pattern placement and orientation. Contractor is responsible for design of formwork and back-up of form liner for structural stability during fabrication, handling, transportation and erection and sufficiency.
2. Submit 12 inch by 12 inch samples of each pattern indicated. Samples may be either actual form liner materials or foam castings from liners proposed for use on the project.
3. Provide full scale sample of each panel using actual job specific materials, methods and workmanship. These include concrete mix [cement type, aggregate gradation, slump, water/cement ratios, plasticizers and additives], forming system [liner and formwork], form release agents, placement rate, form pressures, formwork and joint sealing, vibrating and stripping practices. In addition, demonstrate patching and repair procedures for spalled concrete, and voids caused by honeycombing or bugholes. Accepted sample panels will be standard by which remaining work will be evaluated for technical and aesthetic merit. Contractor shall store accepted sample panels on site for reference until substantial completion. Accepted sample panels are a prerequisite to beginning job formwork. Submit variations from sample panel materials or techniques for approval prior to use.
4. Cover form liners to protect from oil, dirt and uv exposure.
5. Handle rigid form liner panels with care at temperatures below 25° F.
6. Form liner materials and accessories shall be as outlined below or with an approved equal

Basis of Design:

Allowable Alternates:

Type 1 -
Scott System Pattern 122 -
striated

Type 1 -
Fitzgerald Formliners pattern 17934 -
dc wave

Type 1 -
American Formliners pattern 1122 -
random striations

Type 2 -
Scott System Pattern 120 -
sandblast #2

Type 2 -
Fitzgerald Formliners pattern 16991 -
MEDIUM SANDBLAST

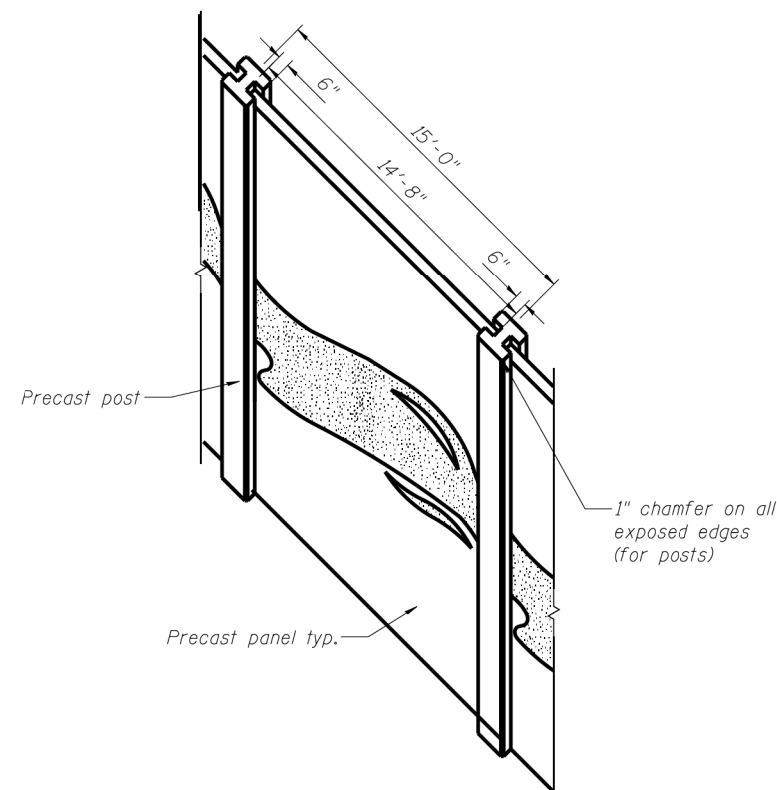
Type 2 -
American Formliners pattern 1200 -
light/medium
sandblast

Scott System, Inc.
10777 East 45TH Avenue
Denver, CO 80239
333-373-2500
WWW.SCOTTSYSTEM.COM

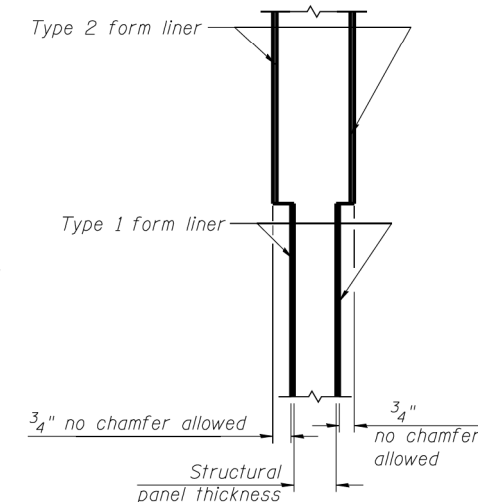
Fitzgerald Formliners, Inc.
1500 East Chestnut Avenue
Santa Ana, CA 92701
800-547-7760
WWW.FORMLINERS.COM

American Formliners, Inc.
1567 Frontenac Road
Naperville, IL 60563
630-615-2170
WWW.AMERICANFORMLINERS.COM

7. On multiple use liners, clean liner before each use. Replace damaged liner whose continued use or repair would negatively impact the aesthetics of the concrete finish.
8. Apply form liner compatible release agent at rate recommended by manufacturer. Attempt to schedule concrete pour soon after application of release agent to avoid precipitation, dust, and debris. Protect reinforcing steel from exposure to release agents.
9. Seal form liner joints to prevent mortar leakage.
10. Provide solid backing at form liner butt joints to prevent deflection.
11. Construct form liner and accessories to sizes, shapes, lines and dimensions shown.
12. Install backup strips as required to prevent deflection of the liner due to form pressures.



TYPICAL NOISE WALL POST AND PANEL DETAIL



TYPICAL NOISE WALL PANEL SECTION

FILE NAME = --VP203201-64C08-006-Aesthetic Details (1 of 5).dgn	USER NAME =	DESIGNED - CBE	REVISED -
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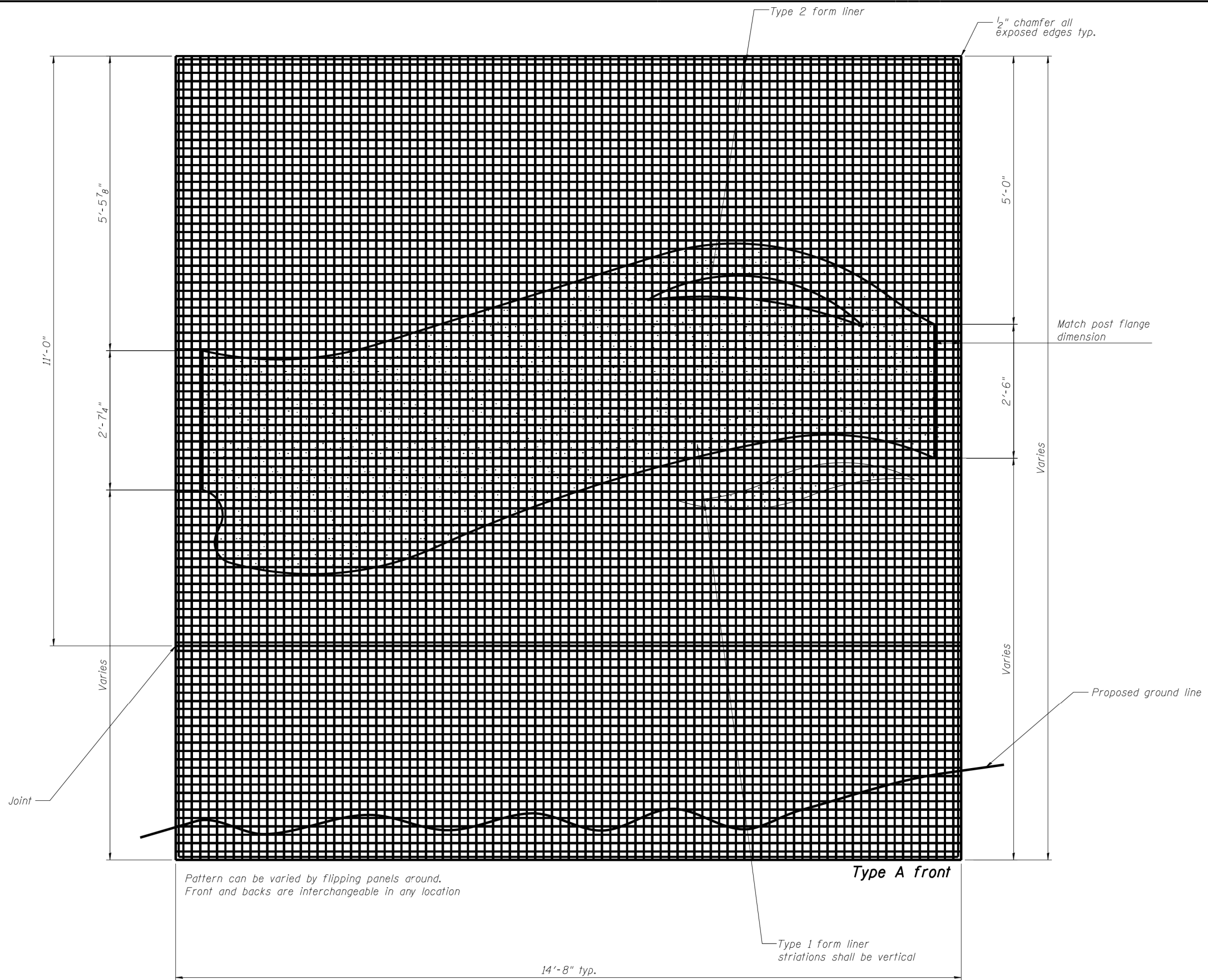
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (1 OF 5)
NOISE ABATEMENT WALL 8**

SHEET NO. NAW-12 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1519
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



TYPE A NOISE WALL PANEL ELEVATION

FILE NAME = ...P9203201-64C08-007-Aesthetic Details (2 of 5).dgn	USER NAME =	DESIGNED - CBE	REVISED -
		CHECKED - HCR	REVISED -
MODEL = #MODEL	PLOT SCALE =	DRAWN - GJM	REVISED -
	PLOT DATE = 5/4/2017	CHECKED - HCR	REVISED -

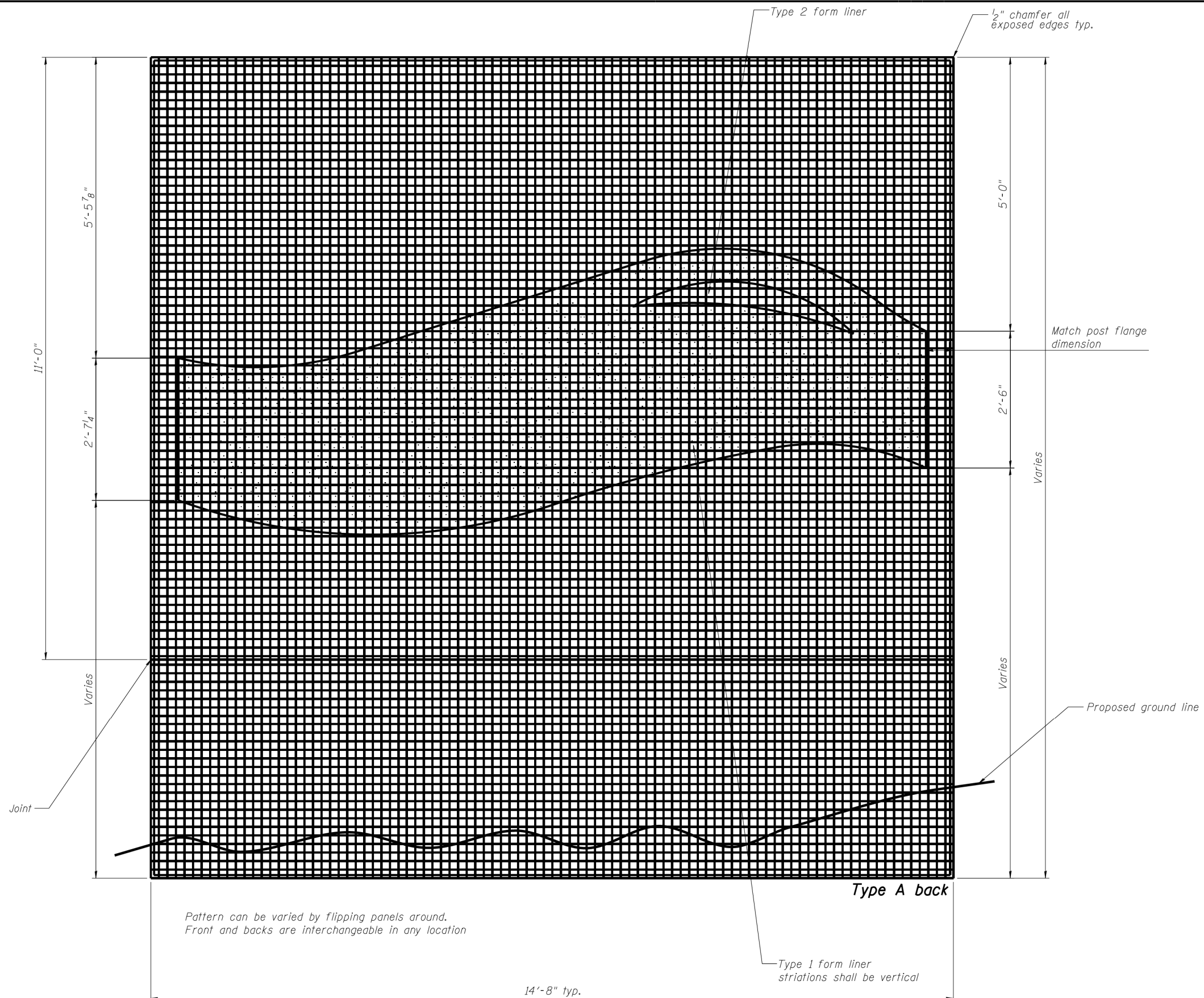
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (2 OF 5)
NOISE ABATEMENT WALL 8**

SHEET NO. NAW-13 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1520
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



TYPE A NOISE WALL PANEL ELEVATION

FILE NAME = P9203201-64C08-008-Aesthetic Details (3 of 5).dgn	USER NAME =	DESIGNED - CBE	REVISED -
		CHECKED - HCR	REVISED -
MODEL = MODEL	PLOT SCALE =	DRAWN - GJM	REVISED -
	PLOT DATE = 5/4/2017	CHECKED - HCR	REVISED -

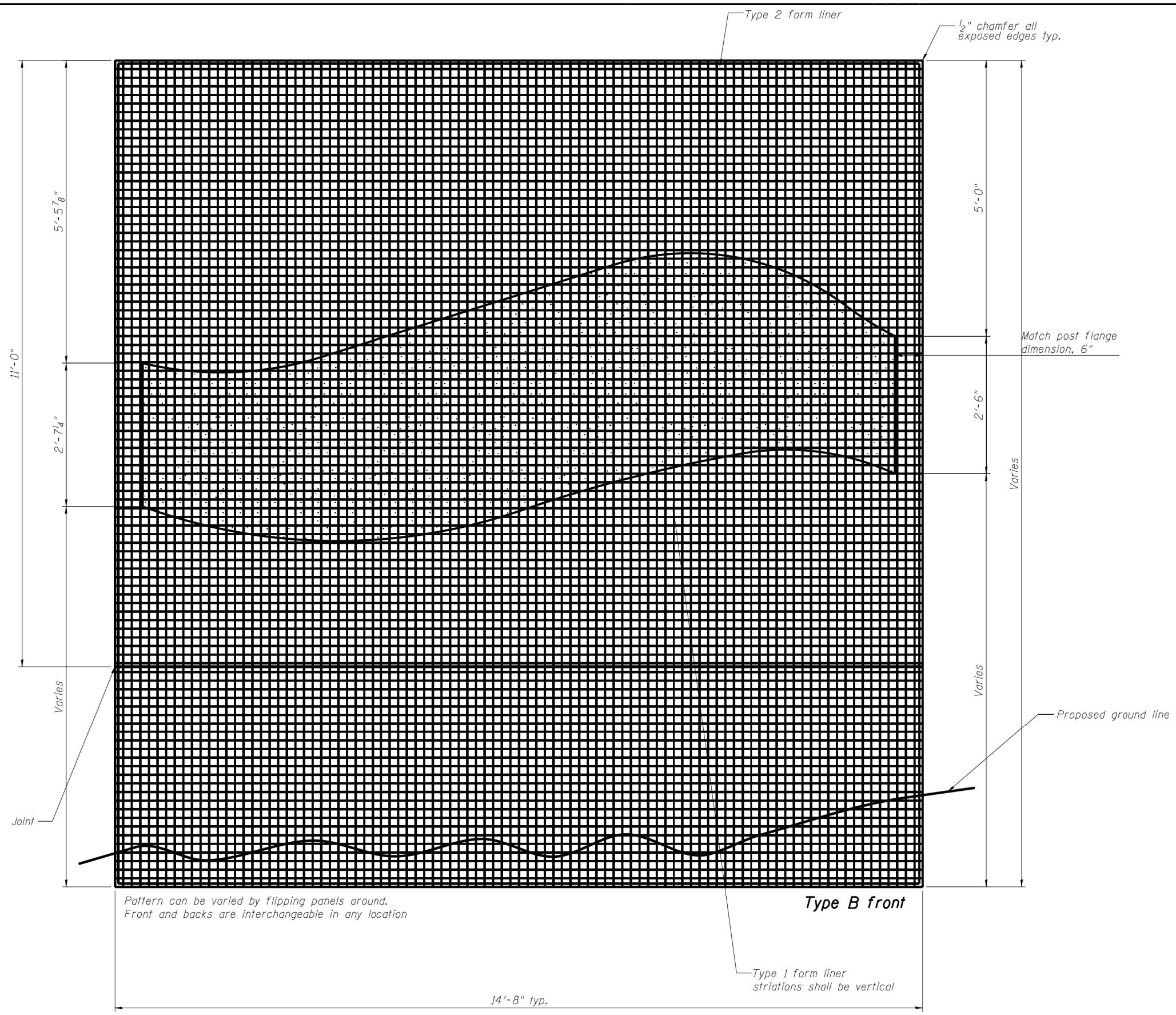
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (3 OF 5)
NOISE ABATEMENT WALL 8**

SHEET NO. NAW-14 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1521
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



TYPE B NOISE WALL PANEL ELEVATION

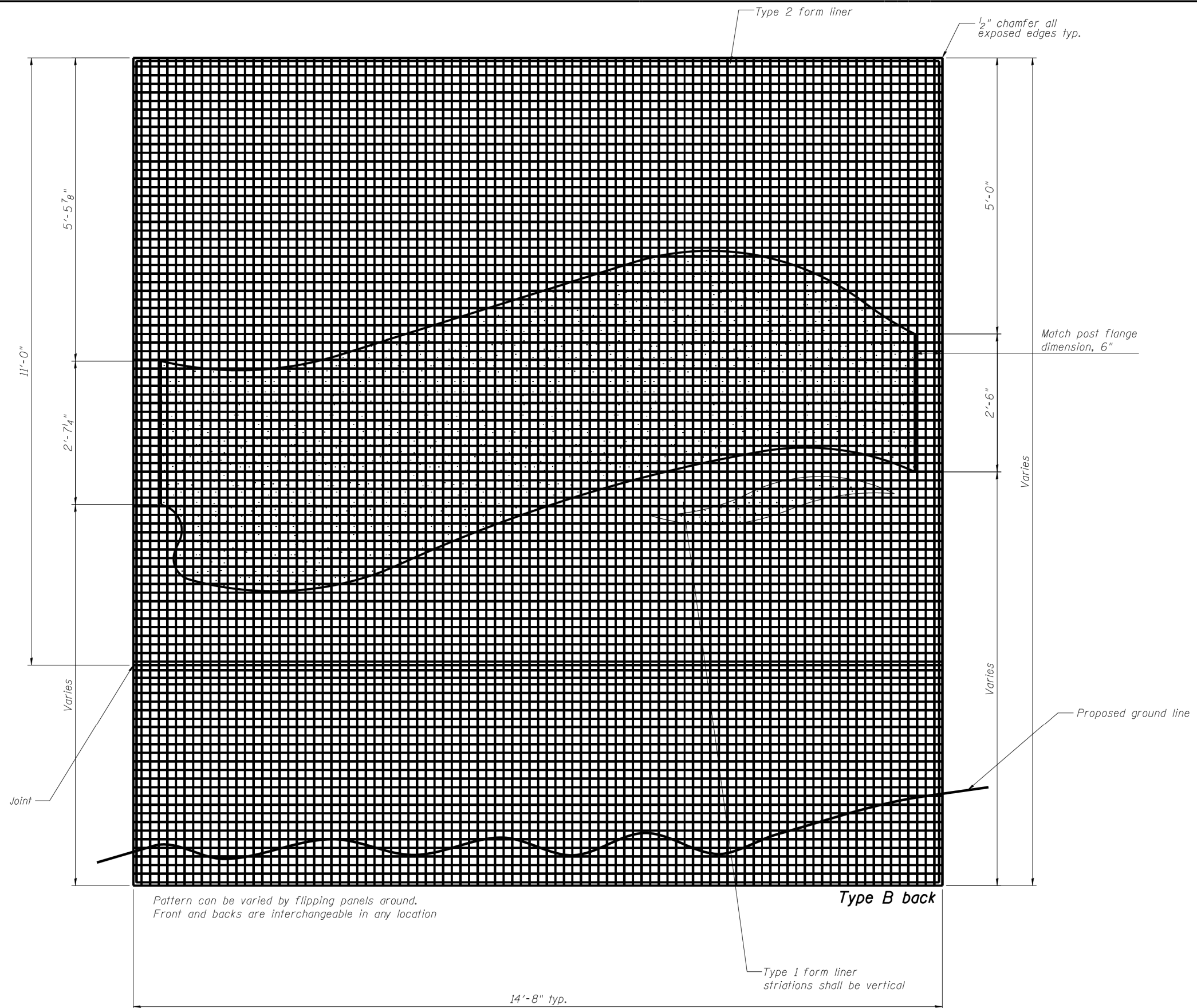
FILE NAME = ...VP203201-64C08-009-Aesthetic Details (4 of 5).dgn	USER NAME =	DESIGNED - CBE	REVISED -
		CHECKED - HCR	REVISED -
MODEL = #MODEL	PLOT SCALE =	DRAWN - GJM	REVISED -
	PLOT DATE = 5/4/2017	CHECKED - HCR	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (4 OF 5)
NOISE ABATEMENT WALL 8**

SHEET NO. NAW-15 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1522
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	



TYPE B NOISE WALL PANEL ELEVATION

FILE NAME = ...VP9203201-64C08-010-Aesthetic Details (5 of 5).dgn	USER NAME =	DESIGNED - CBE	REVISED -
		CHECKED - HCR	REVISED -
MODEL = #MODEL	PLOT SCALE =	DRAWN - GJM	REVISED -
	PLOT DATE = 5/4/2017	CHECKED - HCR	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (5 OF 5)
NOISE ABATEMENT WALL 8**

SHEET NO. NAW-16 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1523
			CONTRACT NO. 64E26	

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 10/1/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
 SECTION 81B LOCATION SEC. 32, TWP. 18N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. Station BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:	
					Stream Bed Elev.	First Encounter	Upon Completion	After
ASPHALT 656.00								
Dark to light brown silty CLAY, trace sand, trace small gravel, stiff, moist.	2							
	4	4	1.94B	9				
	6	4						
	8							
Brown silty CLAY, very stiff, moist. 648.00	4	4	3.50P	13				
	5							
	6							
Greenish-gray silty CLAY, trace sand, trace small gravel, moist. 643.50	4	4	4.00P	13				
	7							
	7							
Light yellowish-brown clayey SILT, trace sand, trace small gravel. 638.50	3	3	4.00P	14				
	6							
	8							
637.00	20							

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/2/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
 SECTION 81B LOCATION SEC. 32, TWP. 18N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. Station BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:	
					Stream Bed Elev.	First Encounter	Upon Completion	After
ASPHALT 660.50								
Dark greenish-gray silty CLAY, trace very fine sand, w/ organics, moist, soft to stiff.	2							
	4	2	2.25P	25				
	4	4						
	4							
Greenish-gray silty CLAY, trace sand, trace small gravel, very stiff. 638.00	4	4	4.07S	12				
	6							
	6							
Gray sandy CLAY, some silt, trace small gravel, stiff, moist. 653.00	2	2	1.75P	21				
	3							
	4							
631.50	30							
End of Boring								
Light brown clayey SILT, some sand, very stiff, moist. 647.50	4	4	3.49S	14				
	5							
	7							
	14							
	16							
	18							
	18	4	5.62S	16				
	6							
	9							
662.50	20							

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/2/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
 SECTION 81B LOCATION SEC. 32, TWP. 18N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. Station BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:	
					Stream Bed Elev.	First Encounter	Upon Completion	After
TOPSOIL 677.00								
Brown clayey fine to medium SAND, trace to some small gravel, trace silt.	2							
	4	5		12				
	4	5						
	4	15						
	6							
	8							
	8	3		6				
	4	4						
	4							
	10							
	12							
	14	3		16				
	3							
	3							
	4							
662.50	20							
End of Boring								

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FILE NAME = P2020201-64E26-011-Soil Boring Logs (1 of 5).dgn
 MODEL: Default

USER NAME = ksnider
 PLOT SCALE =
 PLOT DATE = 3/23/2017

DESIGNED - DMS
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (1 OF 5)
 NOISE ABATEMENT WALL 8

SHEET NO. NAW-17 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1524
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

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SOIL BORING LOG

Page 1 of 1

Date 10/2/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
 SECTION 81B LOCATION SEC. 32, TWP. 18N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev. <u>677.9</u> ft	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:	
								Stream Bed Elev.	First Encounter	Upon Completion	After
TOPSOIL <u>677.40</u>										Brown and gray sandy SILT, stiff.	
				2							
				4	6		6				
				7	7						
				8	8						
				10	7	1.00P	13				
				14	6	2.25P	22				
				14	6						
				14	7						
End of Boring <u>662.90</u>											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/2/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
 SECTION 81B LOCATION SEC. 32, TWP. 18N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev. <u>676.1</u> ft	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:	
								Stream Bed Elev.	First Encounter	Upon Completion	After
TOPSOIL <u>675.60</u>										Brown very fine sandy SILT, trace to some clay, firm to very stiff.	
				2							
				4	5	0.75P	9				
				4	5						
				6							
				8	4	2.25P	13				
				10	5						
				14	3	3.25P	24				
				14	4						
				14	5						
End of Boring <u>661.10</u>											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/2/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
 SECTION 81B LOCATION SEC. 32, TWP. 18N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev. <u>690.6</u> ft	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:	
								Stream Bed Elev.	First Encounter	Upon Completion	After
TOPSOIL <u>690.10</u>										Brown sandy SILT, some clay, stiff. (continued from previous page)	
				2							
				4	9	4.50P	15				
				4	8						
				6							
				8	3	1.50P	25				
				8	3						
				10	4						
				10	5	4.50P	12				
				10	4						
				10	5						
End of Boring <u>660.60</u>											
				14	5	1.50P	16				
				14	5						
				16							
				18	4	2.00P	22				
				18	4						
				20	4						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FILE NAME = P2020201-64C08-012-Soil Boring Logs (2 of 5).dgn

USER NAME = ksnider
 PLOT SCALE =
 PLOT DATE = 3/23/2017

DESIGNED - DMS
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (2 OF 5)
 NOISE ABATEMENT WALL 8

SHEET NO. NAW-18 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1525
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

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SOIL BORING LOG

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY B. Karnik
SECTION I-74 Bridge over Mississippi River LOCATION (N=560858.718, E=2459835.818), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

Table with columns for Depth (ft), Blows (6"), SPT, and Soil Description. Includes data for Sandy Lean Clay Trace Gravel (CL) and various soil layers down to 100 feet.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
SECTION 81B LOCATION SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

Table with columns for Depth (ft), Blows (6"), SPT, and Soil Description. Includes data for ASPHALT, Gray sandy SILT and CLAY, and Dark brown to black sandy SILT.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM
SECTION 81B LOCATION NW 1/4 of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

Table with columns for Depth (ft), Blows (6"), SPT, and Soil Description. Includes data for ASPHALT, Greenish-gray sandy SILT, and Dark brown sandy SILT.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

Table with columns for FILE NAME, USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, DRAWN, and REVISIONS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (4 OF 5)
NOISE ABATEMENT WALL 8

SHEET NO. NAW-20 OF 21 SHEETS

Table with columns for F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.

ILLINOIS FED. AID PROJECT

c:\pwise_work\do_not_delete\dms01470\p2020201-64C08-014-Soil Boring Logs (4 of 5).dgn 5:23:03 PM 3/23/2017



SOIL BORING LOG

Page 1 of 1

Date 10/1/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM

SECTION 81B LOCATION NW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	
Station	E	L	C	O	Stream Bed Elev.	
BORING NO.	P	O	S	I	Groundwater Elev.:	
Station	T	W	S	Q	First Encounter	NE ft
Offset	H	S	Qu	T	Upon Completion	ft
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	Hrs. ft

ASPHALT	688.80					
Greenish-gray silty CLAY, some sand, hard.	2					
	3	6.21S	13			
	4	5				
	6	6				
	8					
CONCRETE	680.80	22				
Gray sandy SILT, very stiff.	679.80	50/5"				
	10					
	12					
	14	4	3.50P	20		
	15	5				
	16	6				
	18					
Light brown sandy SILT, stiff.	671.30	2	1.50P	22		
	19	3				
	20	3				
End of Boring	669.80					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/1/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM

SECTION 81B LOCATION NW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	
Station	E	L	C	O	Stream Bed Elev.	
BORING NO.	P	O	S	I	Groundwater Elev.:	
Station	T	W	S	Q	First Encounter	NE ft
Offset	H	S	Qu	T	Upon Completion	ft
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	Hrs. ft

ASPHALT	688.30					
Brown to gray clayey SILT, trace sand, very stiff.	2					
	3	3.49S	16			
	4	2				
	6	3				
	8					
CONCRETE	681.30	32	2.00P	13		
Brown sandy CLAY, very stiff.	680.30	24				
	10	11				
	12					
	14					
Brown to gray sandy SILT, stiff.	675.80	3	1.00P	21		
	15	4				
	16	3				
End of Boring	674.30					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/1/12

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY MIM

SECTION 81B LOCATION NW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	
Station	E	L	C	O	Stream Bed Elev.	
BORING NO.	P	O	S	I	Groundwater Elev.:	
Station	T	W	S	Q	First Encounter	NE ft
Offset	H	S	Qu	T	Upon Completion	ft
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	Hrs. ft

ASPHALT	687.10					
Brown to gray sandy SILT, trace clay, very stiff.	2					
	6	4.50P	16			
	8	8				
	10	11				
	12					
	14					
	16					
	18					
Light brown sandy SILT, stiff.	679.10	3	1.00P	16		
	19	4				
	20	4				
End of Boring	658.10					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

benesch Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME = P2020201-64E08-015-Soil Boring Logs (5 of 5).dgn	USER NAME = ksnider	DESIGNED - DMS	REVISED -
MODEL: Default	PLOT SCALE =	CHECKED - AJK	REVISED -
	PLOT DATE = 3/23/2017	DRAWN - KMS	REVISED -
		CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (5 OF 5)
NOISE ABATEMENT WALL 8

SHEET NO. NAW-21 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1528
		CONTRACT NO.	64E26	

ILLINOIS FED. AID PROJECT

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3/23/2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. All Reinforcement including the Welded Wire Fabric shall be Epoxy Coated.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See special provisions.
3. Welded Wire Fabric shall be according to AASHTO M55.
4. The stresses developed in the Precast Panels and Posts during shipping, storage, transportation and erection shall be accounted for. It is the responsibility of the Contractor to provide additional reinforcement or bracing if necessary to address these items as suitable to his operations subject to approval by the Engineer.
5. See Removal Plans for limits of existing fence removal. Any damage to the portion of fence to remain shall be repaired by the Contractor at no additional expense to the Department.
6. Contractor to avoid existing and proposed underground utilities and drainage structures.
7. The Contractor shall verify and consider the locations of overhead and underground utilities prior to wall erection.
8. All panel tops shall be placed horizontally with any changes in elevation accomplished by stepping adjacent panel sections at posts, unless otherwise shown. Steps shall be at locations shown.
9. Any removal of existing trees and utilities are to be performed prior to construction of Noise Abatement Wall. See Removal Plans.
10. Panels equal to or less than 13 feet tall shall be full height. Panels taller than 13 feet shall not have a joint thru the Type 1 formliner pattern.

ADDITIONAL DESIGN CRITERIA

1. The architectural rustication to an extent of the maximum groove depth on each face of the Noise Wall Panel is considered structurally ineffective and shall not be considered for strength except when checking for crack control.
2. (a) Post Base Plate and connection to Drilled Shafts shall be designed for strength for both erection loads and service loads.
(b) Shop or field welding of reinforcement bars is not allowed.
(c) Grouted pockets in the Post on Panel shall be considered ineffective for strength or serviceability design.
(d) The coefficient of friction between steel and grout is 0.45.

LOADING

Wind = 25 psf (Ground Mounted) min., See Special Provisions

CURVE DATA
PROP. CURVE 19THS-3

PI Sta = 2073+30.78
 $\Delta = 9^\circ 39' 58''$ (LT)
 $D = 1^\circ 08' 45''$
 $R = 5,000.00'$
 $T = 422.76'$
 $L = 843.52'$
 $E = 17.84'$
 $e =$ Match Existing & N.C. (1.5%)
P.C. Sta = 2069+08.02
P.T. Sta = 2077+51.54

TOTAL BILL OF MATERIAL

Item	Unit	Total
Noise Abatement Wall, Ground Mounted	Sq. ft	7,705

Note: For the method of measurement of the Noise Abatement Wall, Ground Mounted, see sheet NW-3 and Special Provisions.



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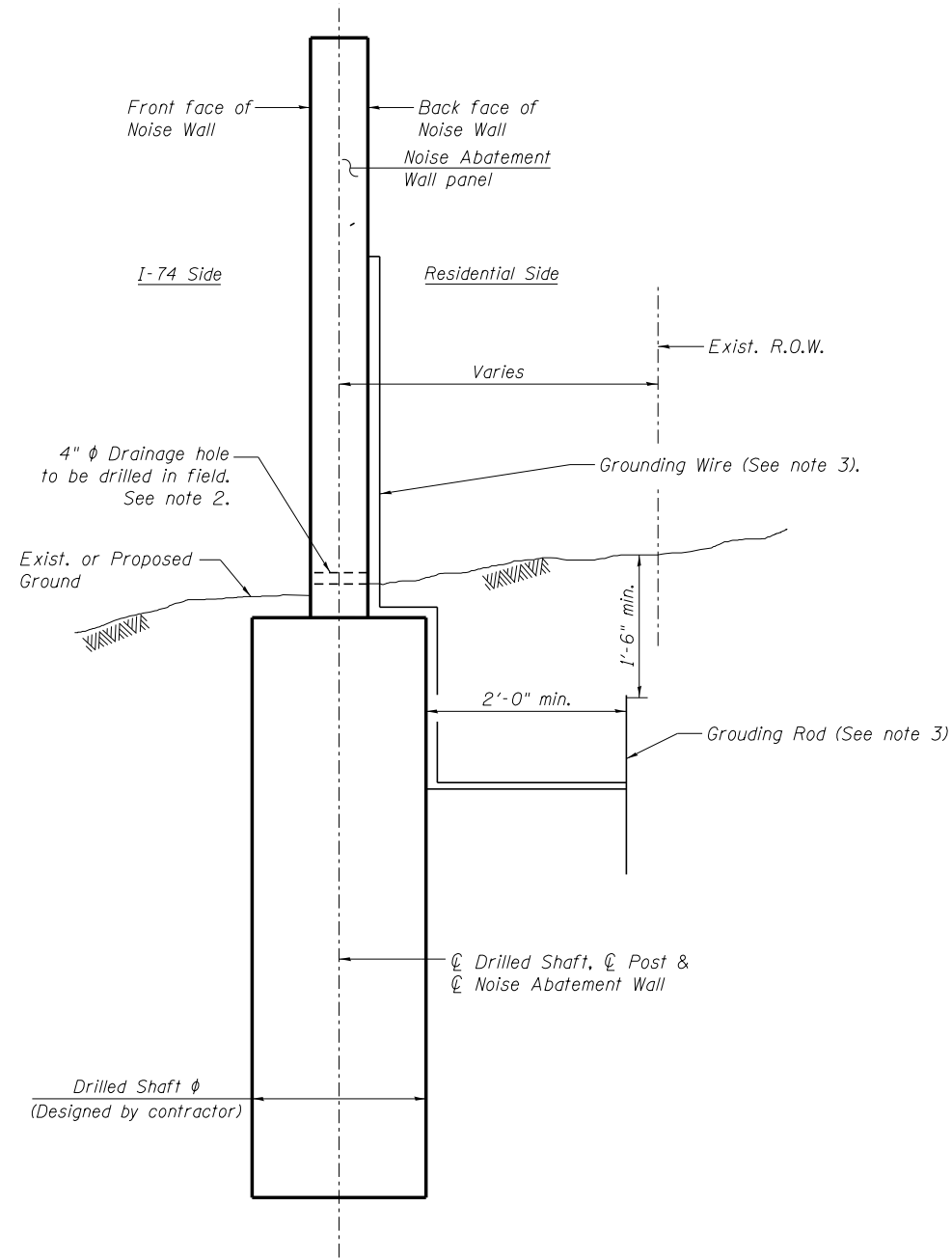
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND TOTAL BILL OF MATERIAL
NOISE ABATEMENT WALL 10**

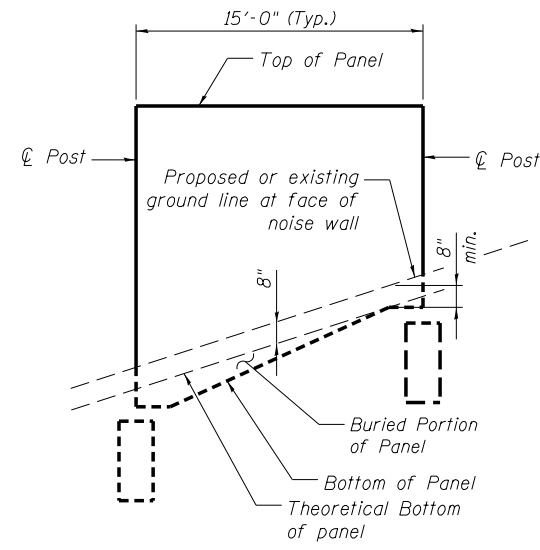
SHEET NO. NW-2 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1530
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

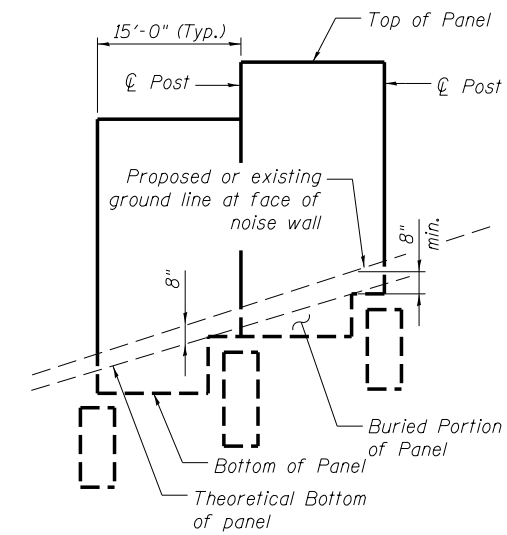
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



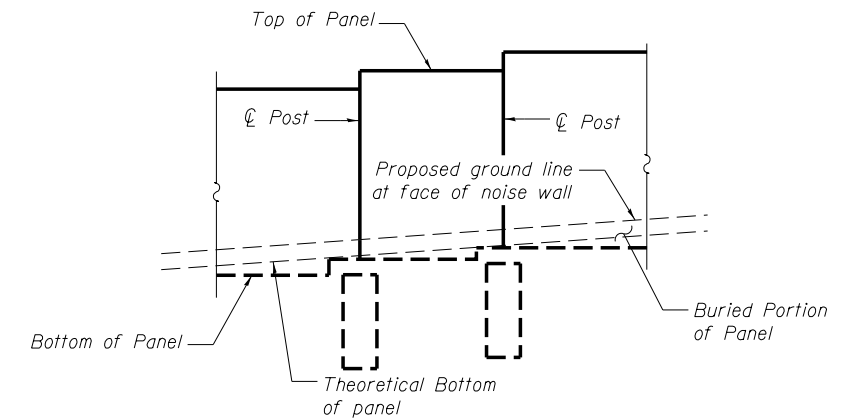
TYPICAL CROSS SECTION
(Ground Mounted Noise Wall)



ALTERNATE DETAIL 1



ALTERNATE DETAIL 2



METHOD OF MEASUREMENT OF WALL AREA

The Method of Measurement of quantity of Noise Abatement Wall, Ground Mounted is based on the cumulative area of Panels in Elevation View bounded by the ϕ Posts, Top of Panel & Theoretical Bottom of Panel line. Alternates 1 and 2 apply to the contract options. See Special Provisions.

NOTES:

- Type and size of posts, noise wall panels, drilled shaft size and embedment length, reinforcement details, lifting bars and wall limits including bottom of wall shall be determined by the noise wall supplier during construction.
- 4" ϕ drainage holes shall be field drilled through wall panels as required to facilitate surface drainage with a maximum of one hole per panel. Location to be determined by the engineer. Cost included with Noise Abatement Wall, Ground Mounted.
- If posts are steel and within 10 feet horizontally of an overhead electrical line, they should be grounded according to section 806 of the Standard Specifications.

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME = ...VP9203202-64C08-003-Detail.dgn	USER NAME = #USER#	DESIGNED - DTS	REVISED -
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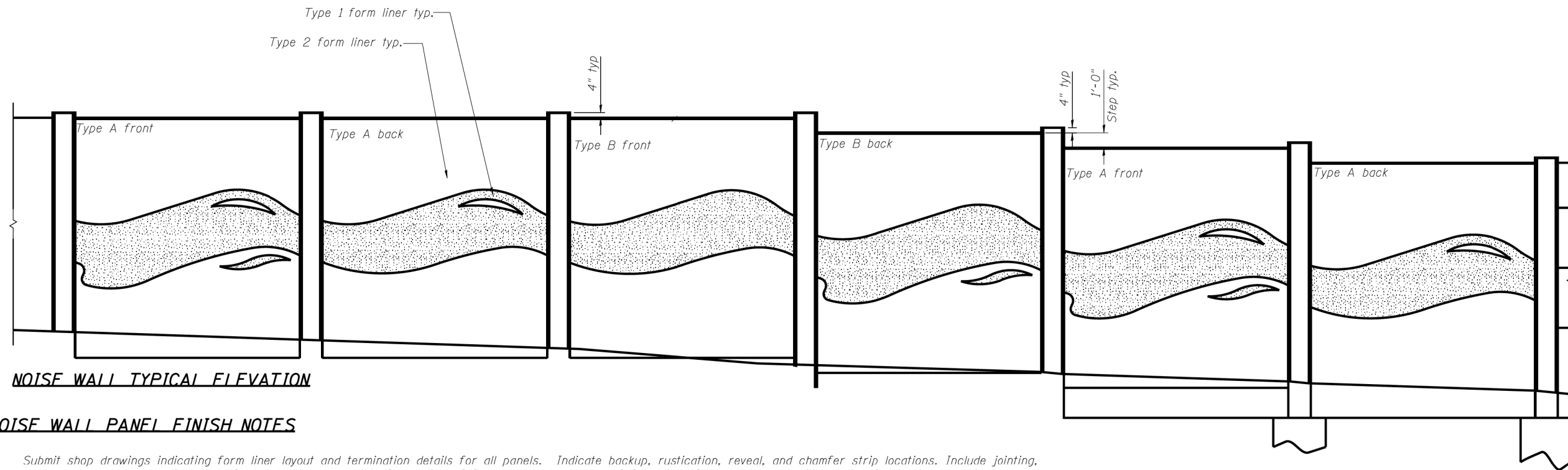
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
NOISE ABATEMENT WALL 10

SHEET NO. NW-3 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1531
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

P9203202-64C08-003-Detail.dgn
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5/5/2017



NOISE WALL TYPICAL ELEVATION

NOISE WALL PANEL FINISH NOTES

1. Submit shop drawings indicating form liner layout and termination details for all panels. Indicate backup, rustication, reveal, and chamfer strip locations. Include jointing, pattern placement and orientation. Contractor is responsible for design of formwork and back-up of form liner for structural stability during fabrication, handling, transportation and erection and sufficiency.
2. Submit 12 inch by 12 inch samples of each pattern indicated. Samples may be either actual form liner materials or foam castings from liners proposed for use on the project.
3. Provide full scale sample of each panel using actual job specific materials, methods and workmanship. These include concrete mix [cement type, aggregate gradation, slump, water/cement ratios, plasticizers and additives], forming system [liner and formwork], form release agents, placement rate, form pressures, formwork and joint sealing, vibrating and stripping practices. In addition, demonstrate patching and repair procedures for spalled concrete, and voids caused by honeycombing or bugholes. Accepted sample panels will be standard by which remaining work will be evaluated for technical and aesthetic merit. Contractor shall store accepted sample panels on site for reference until substantial completion. Accepted sample panels are a prerequisite to beginning job formwork. Submit variations from sample panel materials or techniques for approval prior to use.
4. Cover form liners to protect from oil, dirt and uv exposure.
5. Handle rigid form liner panels with care at temperatures below 25° F.
6. Form liner materials and accessories shall be as outlined below or with an approved equal

Basis of Design:

Allowable Alternates:

Type 1 -
Scott System Pattern 122 -
striated

Type 1 -
Fitzgerald Formliners pattern 17934 -
dc wave

Type 1 -
American Formliners pattern 1122 -
random striations

Type 2 -
Scott System Pattern 120 -
sandblast #2

Type 2 -
Fitzgerald Formliners pattern 16991 -
MEDIUM SANDBLAST

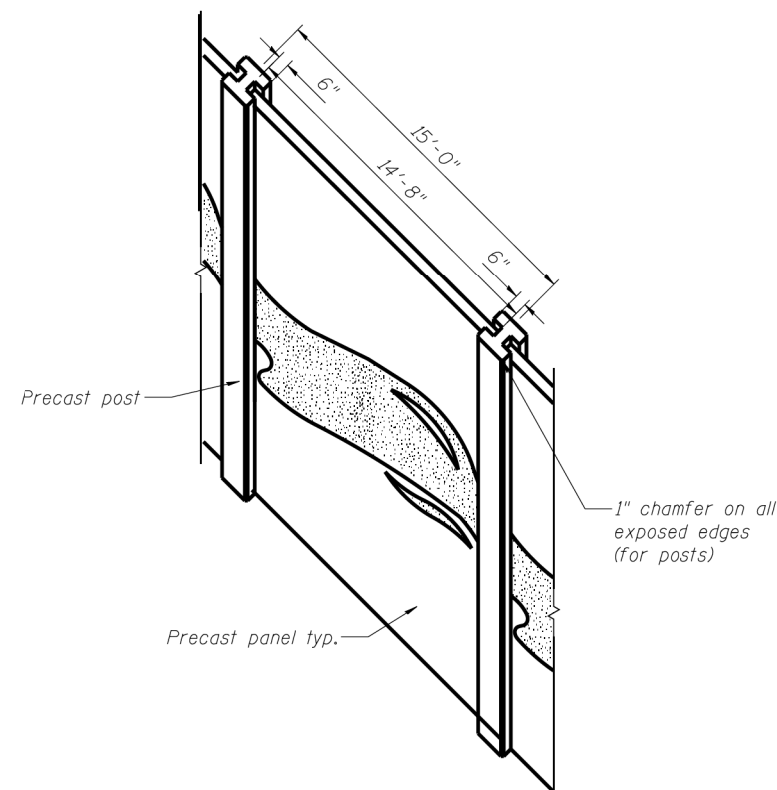
Type 2 -
American Formliners pattern 1200 -
light/medium
sandblast

Scott System, Inc.
10777 East 45TH Avenue
Denver, CO 80239
333-373-2500
WWW.SCOTTSYSTEM.COM

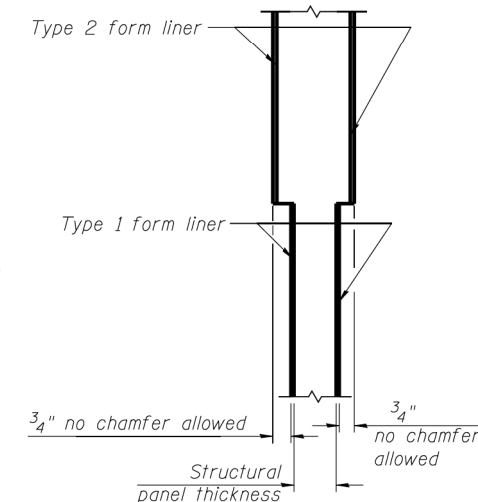
Fitzgerald Formliners, Inc.
1500 East Chestnut Avenue
Santa Ana, CA 92701
800-547-7760
WWW.FORMLINERS.COM

American Formliners, Inc.
1567 Frontenac Road
Naperville, IL 60563
630-615-2170
WWW.AMERICANFORMLINERS.COM

7. On multiple use liners, clean liner before each use. Replace damaged liner whose continued use or repair would negatively impact the aesthetics of the concrete finish.
8. Apply form liner compatible release agent at rate recommended by manufacturer. Attempt to schedule concrete pour soon after application of release agent to avoid precipitation, dust, and debris. Protect reinforcing steel from exposure to release agents.
9. Seal form liner joints to prevent mortar leakage.
10. Provide solid backing at form liner butt joints to prevent deflection.
11. Construct form liner and accessories to sizes, shapes, lines and dimensions shown.
12. Install backup strips as required to prevent deflection of the liner due to form pressures.



TYPICAL NOISE WALL POST AND PANEL DETAIL



TYPICAL NOISE WALL PANEL SECTION

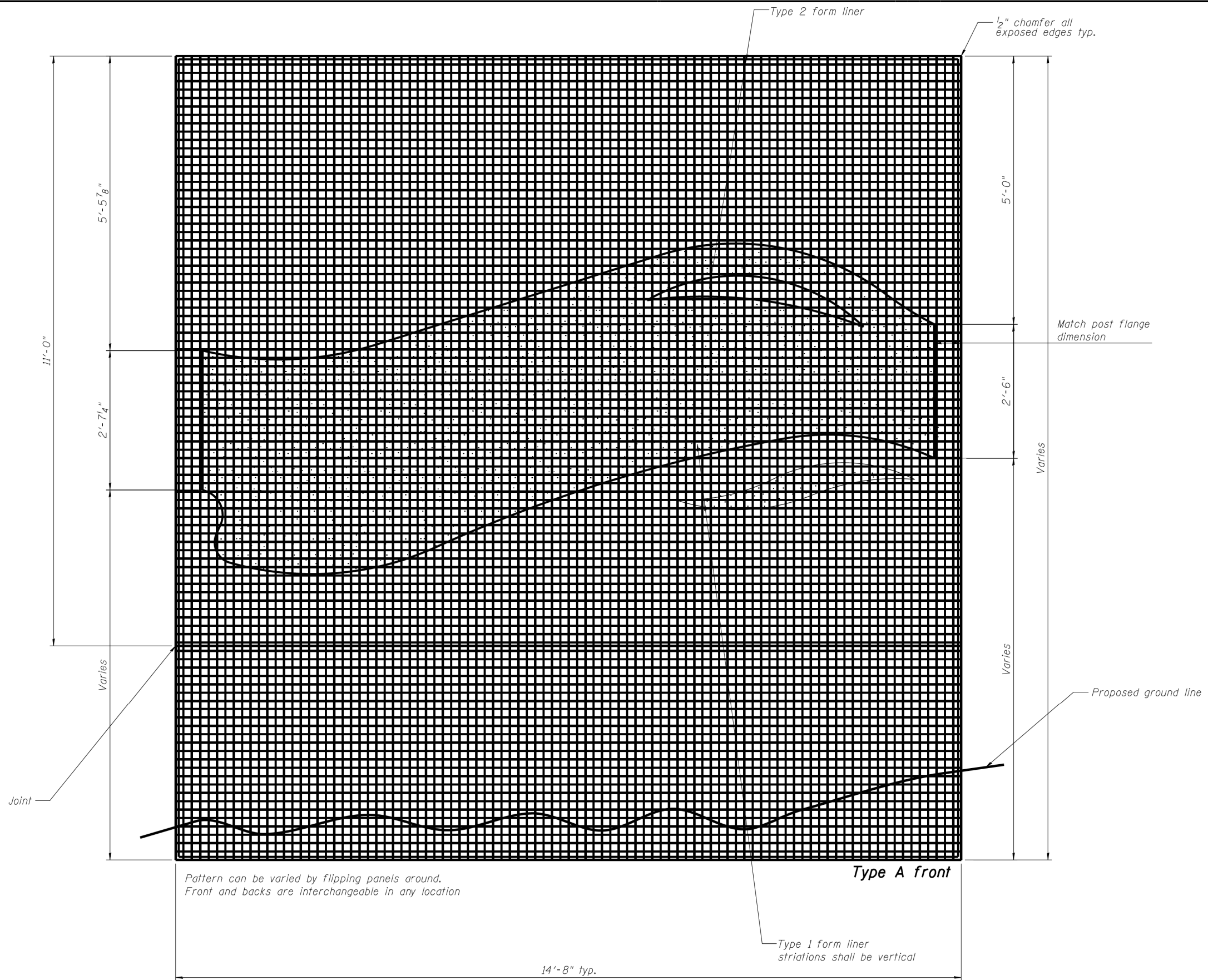
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (1 OF 5)
NOISE ABATEMENT WALL 10**

SHEET NO. NW-4 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1532
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



TYPE A NOISE WALL PANEL ELEVATION

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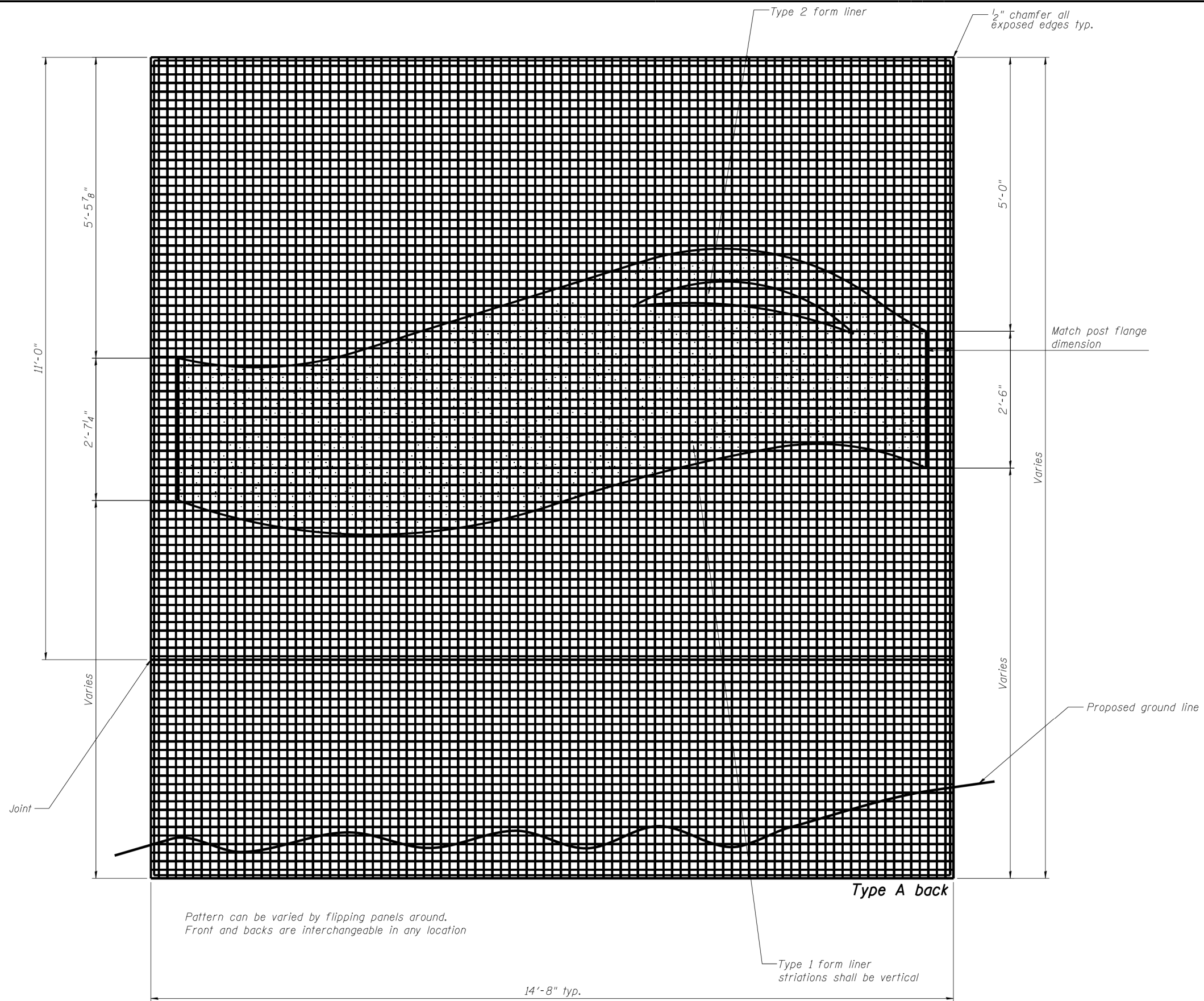
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (2 OF 5)
NOISE ABATEMENT WALL 10**

SHEET NO. NW-5 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1533
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



TYPE A NOISE WALL PANEL ELEVATION

FILE NAME = ...VP203202-64C08-006-Aesthetic Details (3 of 5).dgn	USER NAME =	DESIGNED - CBE	REVISED -
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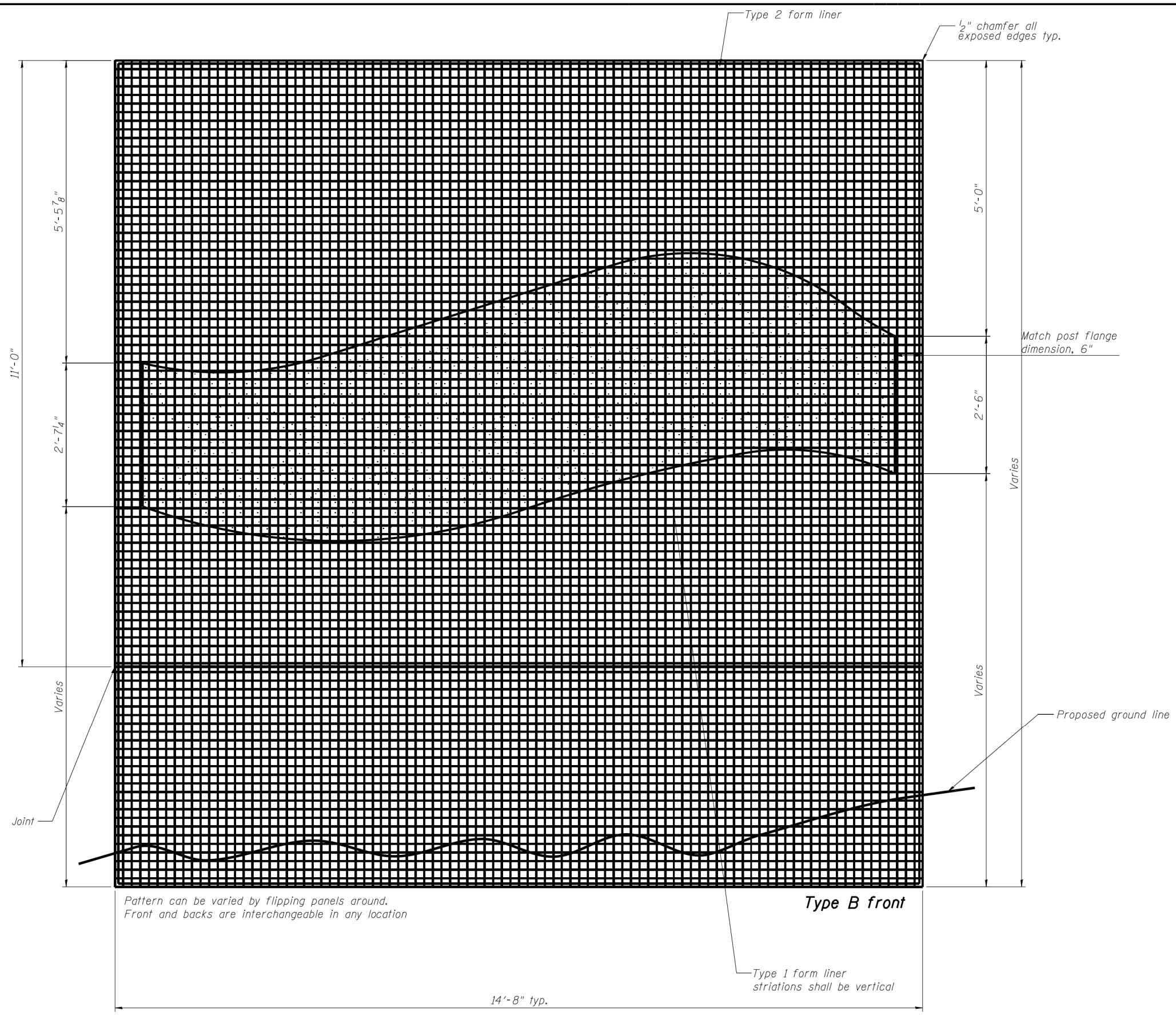
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (3 OF 5)
NOISE ABATEMENT WALL 10**

SHEET NO. NW-6 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1534
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



TYPE B NOISE WALL PANEL ELEVATION

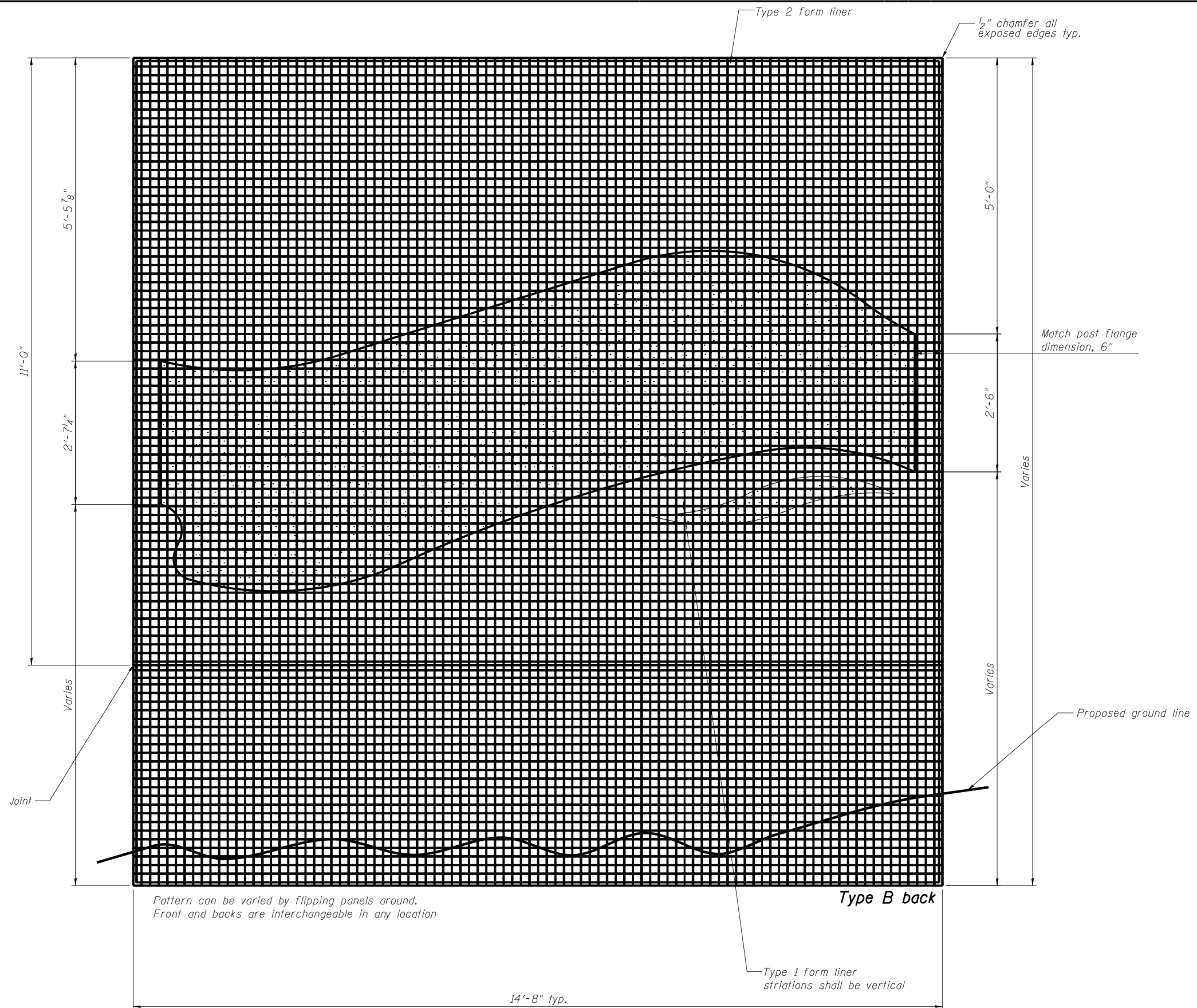
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**STATE OF ILLINOIS
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**AESTHETIC DETAILS GROUND MOUNTED (4 OF 5)
NOISE ABATEMENT WALL 10**

SHEET NO. NW-7 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1535
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	



TYPE B NOISE WALL PANEL ELEVATION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS GROUND MOUNTED (5 OF 5)
NOISE ABATEMENT WALL 10**

SHEET NO. NW-8 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1536
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 6/24/10

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY JMB
 SECTION 81B LOCATION SW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Continuous Flight Auger HAMMER TYPE Auto

STRUCT. NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After Hrs.
TOPSOIL, roots Brown with gray mottles, moist, soft, clayey SILT					674.10	
	2	3	0.69S	28		
	3	3				
	5	6	0.75S	26	665.90	
	6	7				
Brown, moist, very stiff, fat CLAY						
	7	9	0.90B	15	661.40	
	9	13				
Gray, moist, very stiff, silty CLAY with trace sand and gravel						
	13				659.40	
End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 6/25/10

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY JMB
 SECTION 81B LOCATION SW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Continuous Flight Auger HAMMER TYPE Auto

STRUCT. NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After Hrs.
TOPSOIL Brown, moist, soft, clayey SILT					677.00	
	2	2	0.23B	22		
	2	2				
Dark brown, moist, soft, silty CLAY					672.80	
	4	2				
	4	2				
Dark brown, moist, stiff, silty CLAY					669.30	
	4	5	0.88B	28		
	5	5				
Brown and gray, moist, stiff, silty CLAY with trace sand					664.30	
	4	4	0.65S	19		
	4	4			663.30	
Brown, moist, stiff, clayey SILT with trace sand					662.30	
	5					
End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 6/25/10

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY JMB
 SECTION 81B LOCATION SW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.
 COUNTY Rock Island DRILLING METHOD Continuous Flight Auger HAMMER TYPE Auto

STRUCT. NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After Hrs.
TOPSOIL Brown with gray mottles, moist, medium stiff, SILT with clay					680.40	
	2	3	0.63S	27		
	3	3				
	3	4				
Gray, moist, medium stiff, SILT with trace clay					672.70	
	3	4	0.94B	25		
	4	5				
Gray, moist, stiff, silty CLAY					667.70	
	3	3	0.75B	24		
	3	5			665.70	
End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

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DESIGNED - DTS

REVISED -

CHECKED - TPS

REVISED -

PLOT SCALE =

DRAWN - DTS

REVISED -

PLOT DATE = 3/23/2017

CHECKED - TPS

REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (1 OF 3)
 NOISE ABATEMENT WALL 10

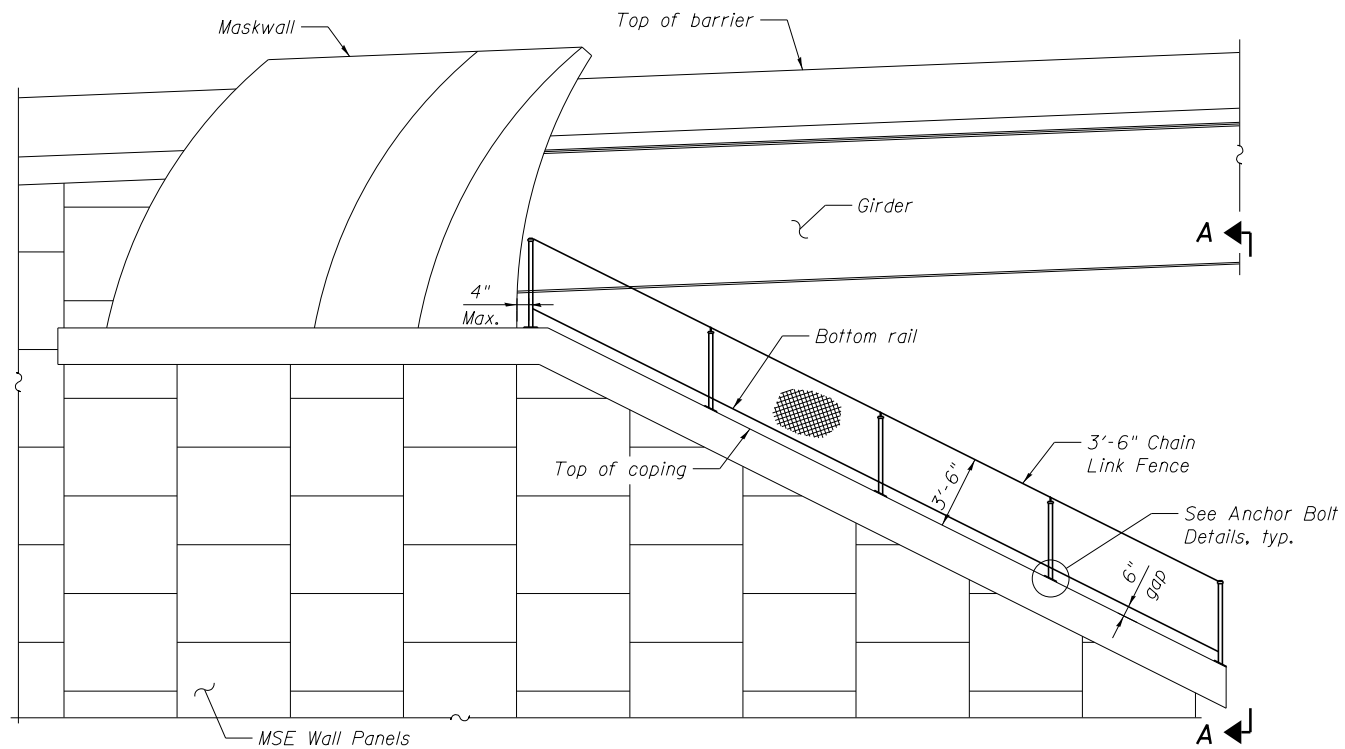
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

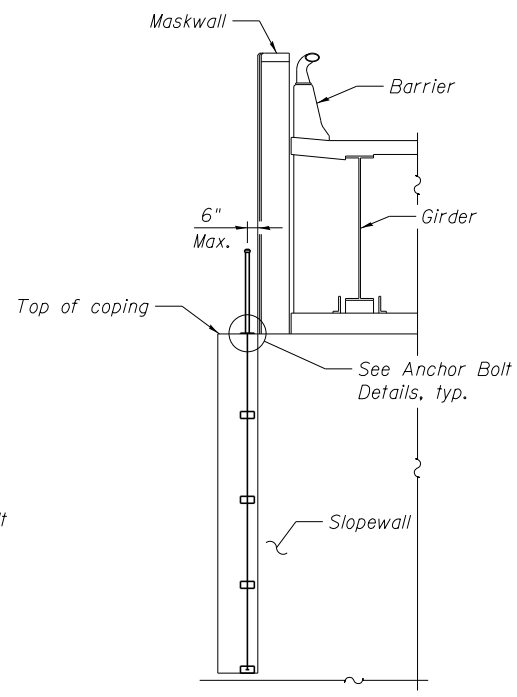
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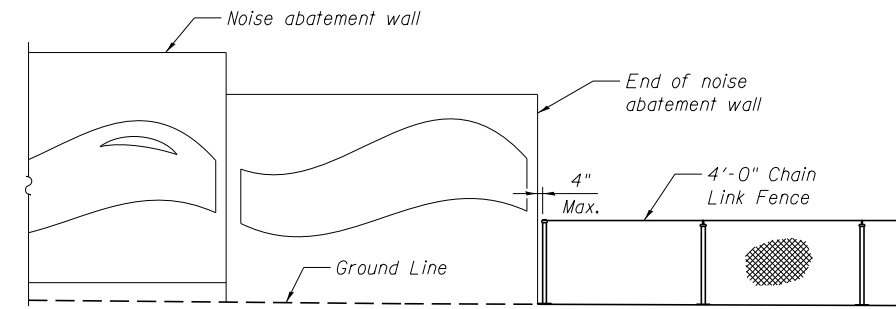
3/23/2017



SLOPEWALL FENCE AT MSE WALL COPING

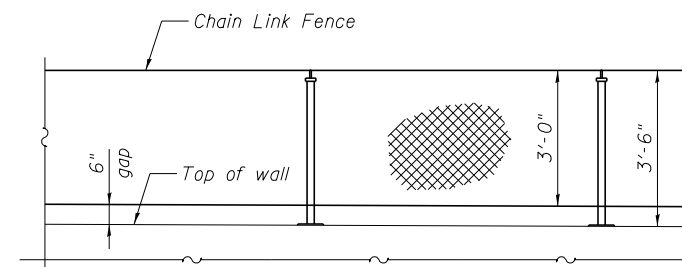


VIEW A-A



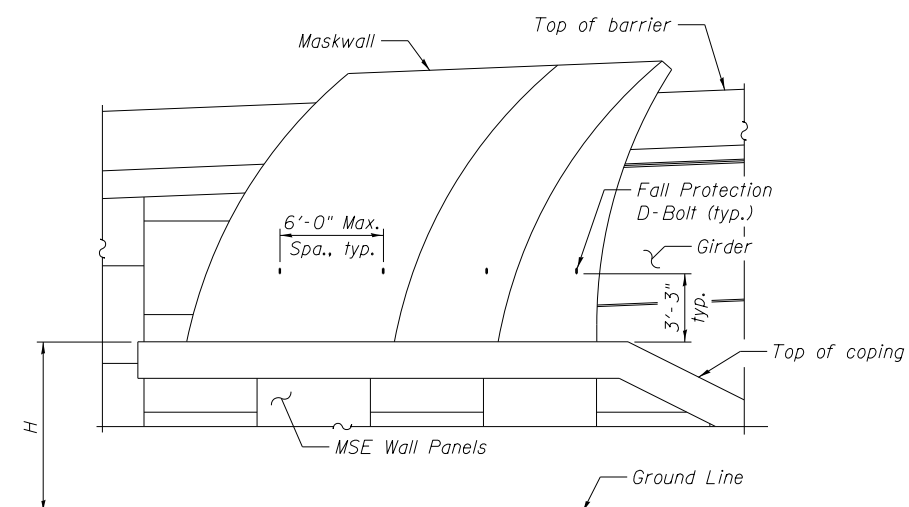
4'-0" TALL FENCE ABUTTING TO NOISE WALL

The centerline of the abutting fence shall be in line with the centerline of noisewall. The gap between the fence and noise wall shall not be more than 4".



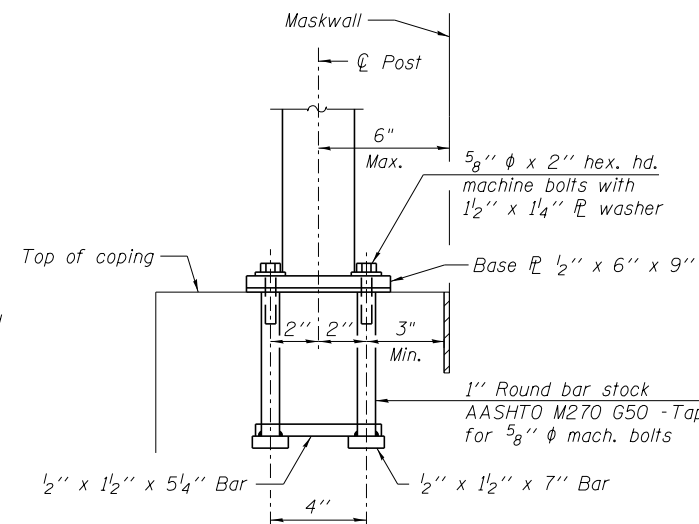
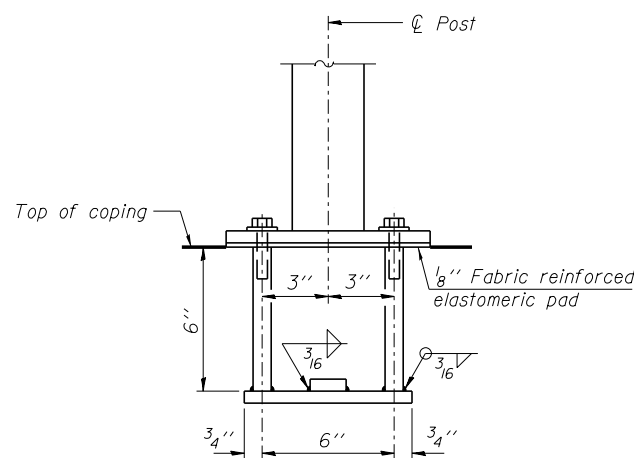
BOTTOM OF CHAIN LINK FENCE DETAIL AT MSE WALL

Bottom of fence fabric shall be 6" from the top of wall to mitigate trash accumulation.



FALL PROTECTION D-BOLT DETAIL

D-Bolts are required at maskwalls if "H" dimension is greater than or equal to 6'-0".



ANCHOR BOLT DETAILS

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

NOTES:

Refer to Special Provision for "Chain Link Fence, 4'."

Installer of the fence shall not place any placards or identifications of their company, or any signage on the fence.

D-Bolts shall be in accordance with ANSI/ASSE Z359, OSHA 196.500 and 1926.502, and shall have minimum pullout strength of 5000 lbs.

3'-6" tall Chain link fence shall be measured and paid for as "Chain Link Fence, 4'."

The cost for furnishing and installing D-Bolts shall be incidental to the item "Chain Link Fence, 4'."

The cost of furnishing and installing anchor bolts and base plates shall be incidental to the item "Chain Link Fence, 4'."

The details on this sheet shall augment and supersede those on IL Standard sheet 664001-02.

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engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME = ...ILLINOIS Chain Link Fence Details.dgn	USER NAME = #USER#	DESIGNED - TJJ	REVISED -
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	PLOT DATE = 3/22/2017	DRAWN - KMS	REVISED -
		CHECKED - SLD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CHAIN LINK FENCE DETAILS

SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1540
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED (DETAILS FOR CURB & GUTTER REPLACEMENT)

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE 1-1/2 IN DIAMETER AND 9 DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. A 1-1/4 X 18 SMOOTH DOWEL BAR SHALL BE GROUDED IN THE HOLE LONGITUDINALLY.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

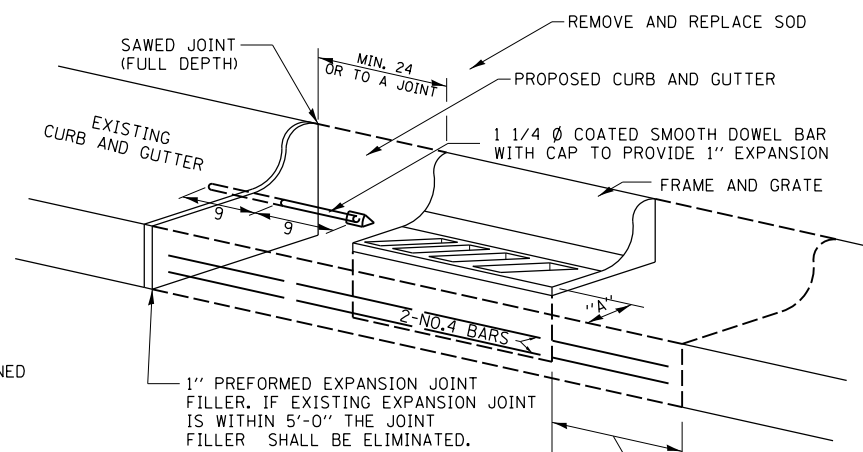
THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THAT REMOVED.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.

REVISED - 9-30-11



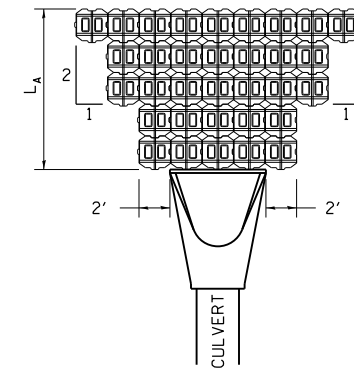
WHEN "A" IS GREATER THAN 2', 2-NO. 4 BARS SHALL BE PLACED AS SHOWN.

SAME REPAIR AS INDICATED ON OTHER SIDE OF FRAME AND GRATE.

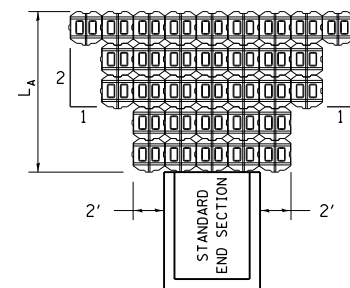
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED 17.4

CONCRETE REVETMENT MAT AT END SECTIONS



FLARED END SECTION



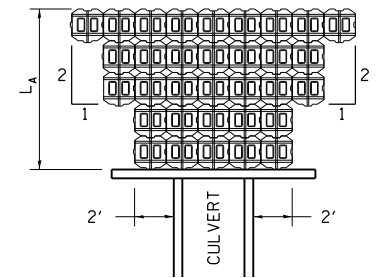
STANDARD END SECTION

REVISED - 7-13-16
REVISED - 11-12-14

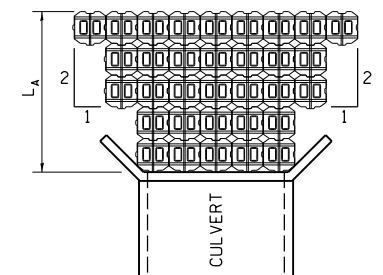
L_A = APRON LENGTH (ft)

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, INSTALL BLOCK BANK TO BANK FOR LENGTH (L_A).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).



CULVERT WITH HEADWALL



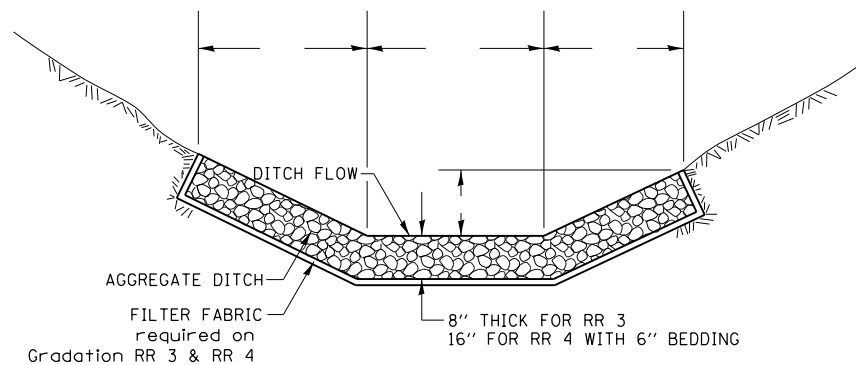
CULVERT WITH WING WALLS

Station	Offset	Velocity (ft/sec)	Slope (ft/ft)	Depth of Flow (ft)	Shear Stress (lb/ft ²)
63+89.9	107.6 RT	4.61	0.225	0.45	6.32
69+00.7	108.5 RT	3.64	0.060	0.19	0.71
72+09.5	124.5 RT	3.04	0.040	0.19	0.47
82+85.0	114.3 RT	6.96	0.200	0.26	3.24
96+00.0	122.0 LT	5.81	0.013	0.37	0.30
102+50.0	90.3 LT	5.02	0.014	0.70	0.61
133+25.0	73.3 LT	7.77	0.020	0.36	0.45
158+04.1	86.3 LT	3.61	0.012	0.36	0.27

NOTE: UNDERDRAIN OUTFALLS AND CURB OUTLETS NOT INCLUDED.

CONCRETE REVETMENT MAT AT END SECTIONS 19.4a

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING



THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 281. AGGREGATE DITCH WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS OF ACTUAL SURFACE AREA. AGGREGATE DITCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR STONE RIPRAP CLASS A3 OR STONE RIPRAP CLASS A4 THE FILTER FABRIC SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC.

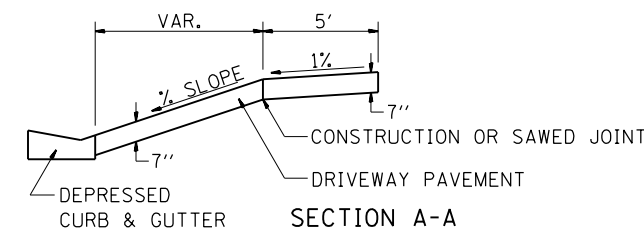
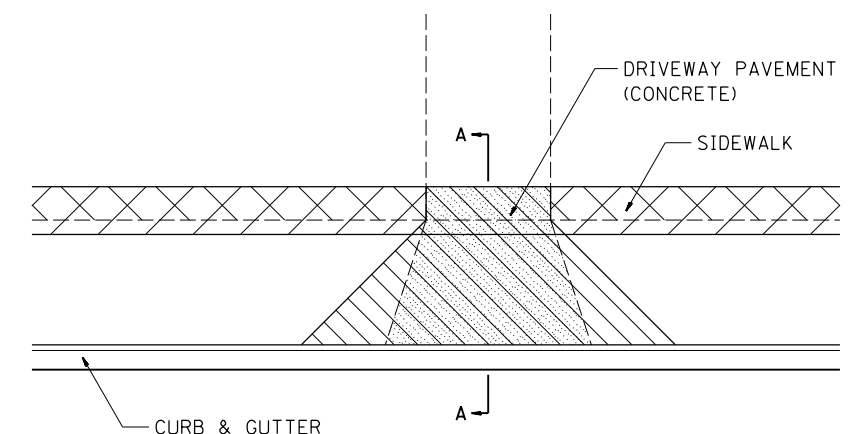
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 7-05-12

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING 21.4

SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS

- PAY FOR AS
- SIDEWALK REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - PCC SIDEWALK 5
 - PCC DRIVEWAY PAVEMENT 7



FOR DETAILS ON DIMENSIONS AND GRADES, SEE DISTRICT STANDARD 25.1 OR PLANS.

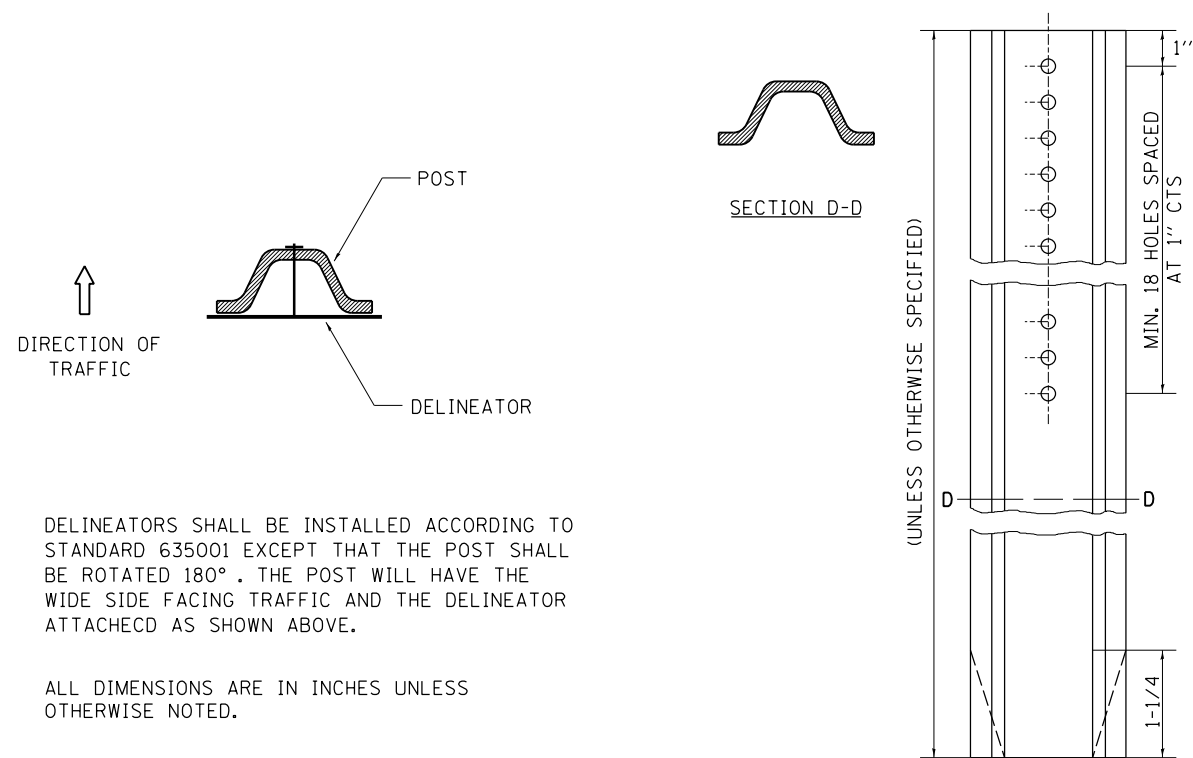
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

LAYOUT	
DRAWN	
REVIEWED	

REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-03-11		74	(81-11R-1 & 81-10HR, HBR-1, HBR-2)	ROCK ISLAND	2042	1541
REVISED -		CONTRACT NO. 64E26				
REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS 35.4

DELINEATOR AND POST ORIENTATION



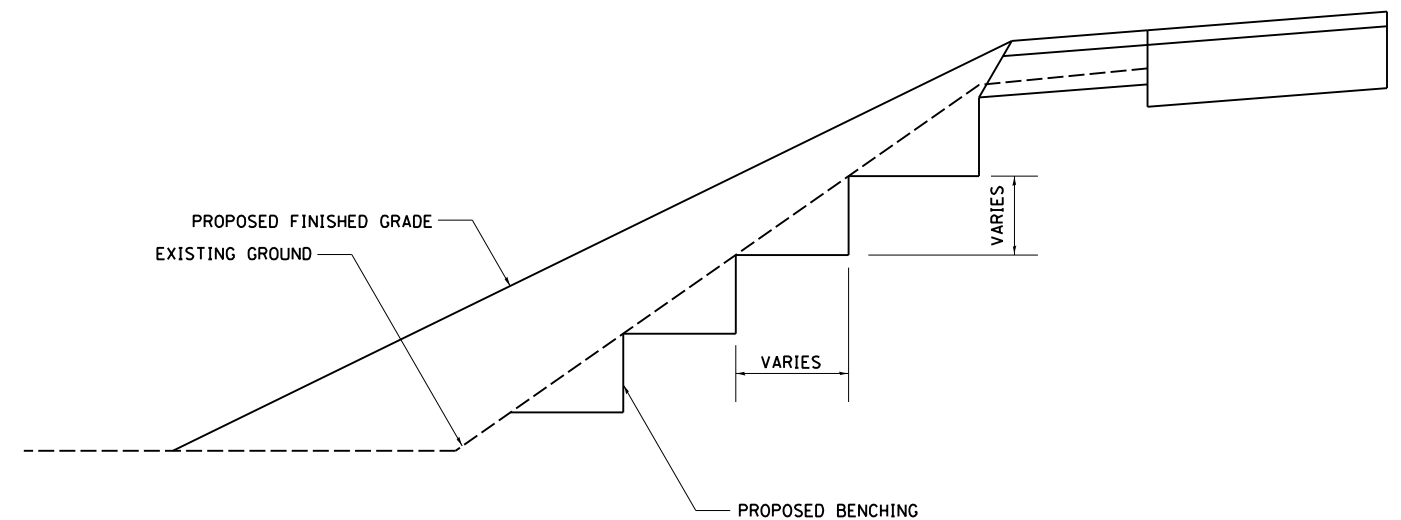
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

DELINEATOR AND POST ORIENTATION 37.4

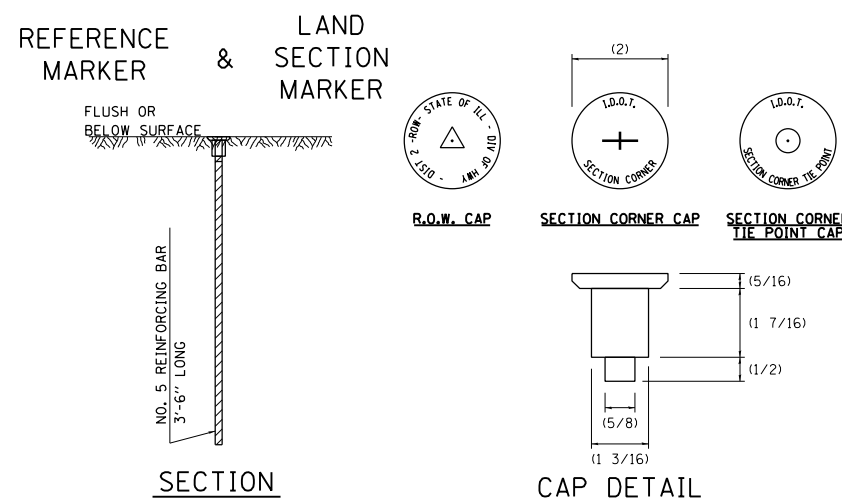
TYPICAL BENCHING ON EXISTING EMBANKMENT



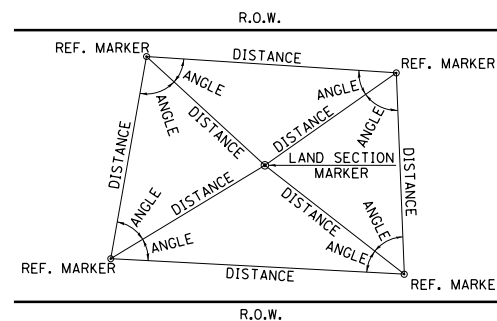
REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING POINTS



- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 28" OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL SO AS NOT TO BE DISTURBED BY MOWING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

METHOD OF REFERENCING POINTS

REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 3" BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL BE REPLACED BY CORE DRILL AND RESETTING PIN.

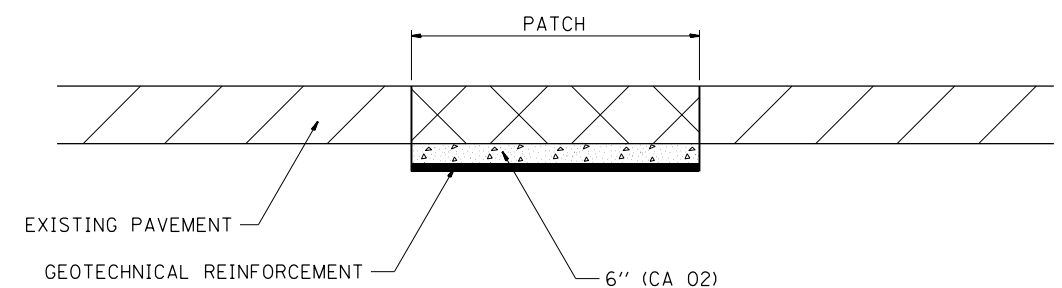
ALUMINUM CAPS SHALL BE PLACED ON TOP OF THE REINFORCING BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY THE SURVEYOR WHO IS RESPONSIBLE FOR MONUMENTING CORNERS.

REVISED - 3-05-10

LAYOUT	
DRAWN	
REVIEWED	

LAND SECTION & REFERENCE MARKERS 63.4

SUBGRADE REPLACEMENT



NOTES:

THE CA 02 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 02 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR AGGREGATE SUBGRADE IMPROVEMENT WHICH SHALL ALSO INCLUDE ALL EARTH EXCAVATION.

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT.

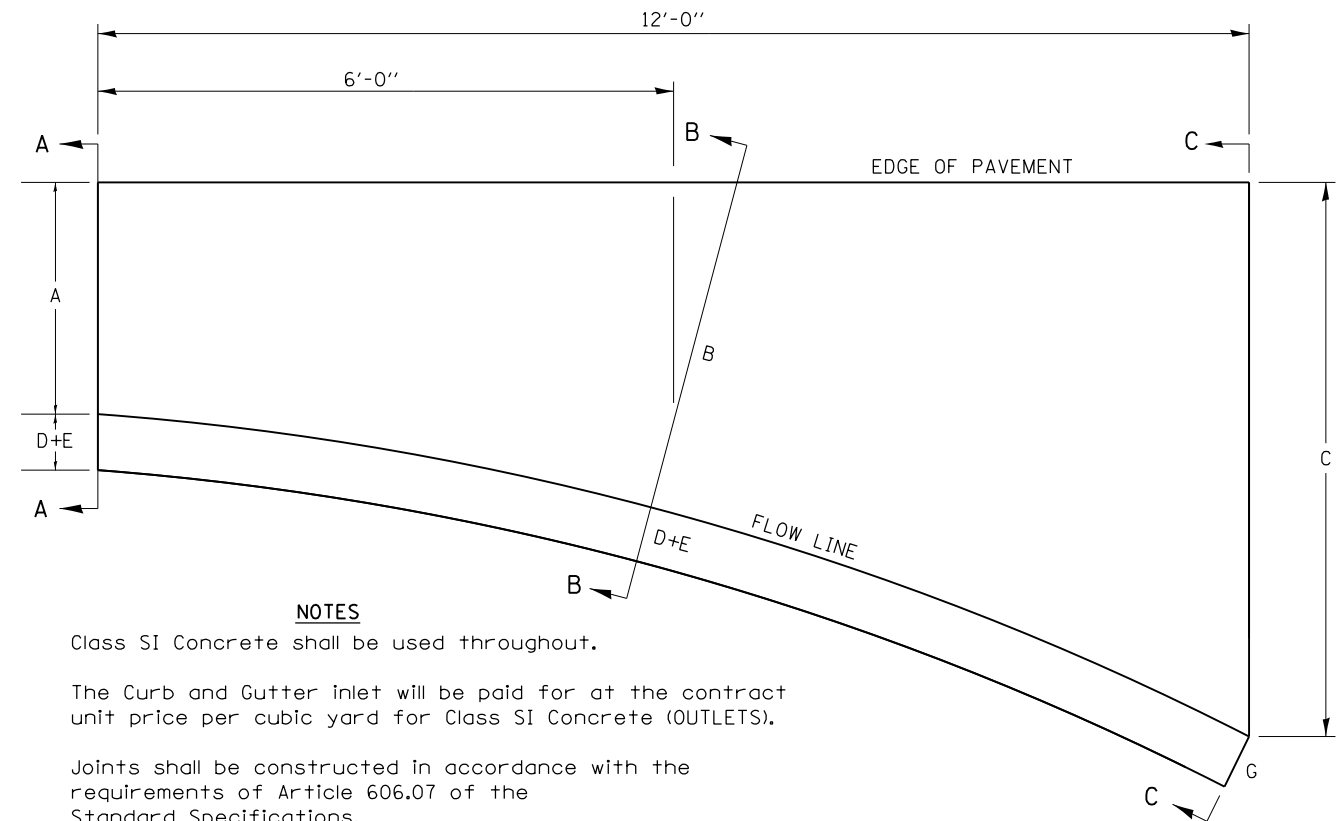
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 3-13-13	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		74	(81-11R-1 & 81-10HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1542
REVISED -		CONTRACT NO. 64E26				
REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

PLOT DATE = 3/22/2017

SUBGRADE REPLACEMENT 97.4

STANDARD INLET FOR CURB & GUTTER



NOTES

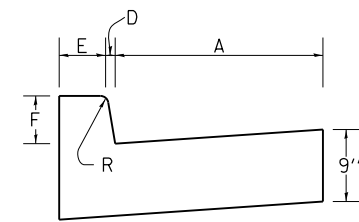
Class SI Concrete shall be used throughout.

The Curb and Gutter inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

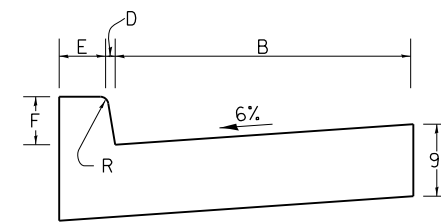
Joints shall be constructed in accordance with the requirements of Article 606.07 of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

All dimensions are in inches unless otherwise noted.

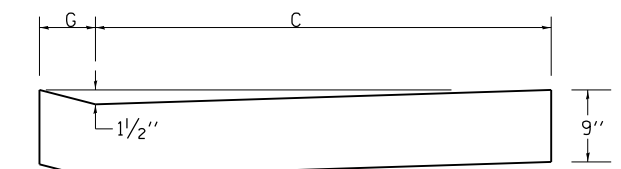


SECTION A-A



SECTION B-B

TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS								CONCRETE QUANTITY A-A TO C-C (CU YDS)
	A	B	C	D	E	F	G	R	
B-6.06	6	15	4'	1	6	6	7	1	0.87
B-6.12	12	18.25	4'	1	6	6	7	1	0.95
B-6.18	18	27.25	4' 9"	1	6	6	7	1	1.18
B-6.24	24	32.4	4' 9"	1	6	6	7	1	1.30
M-4.06	6	17.8	3' 9"	4	3	4	7	3	0.75
M-4.12	12	18.25	4'	4	3	4	7	3	0.91
M-4.18	18	27.25	4' 9"	4	3	4	7	3	1.14
M-4.24	24	32.4	4' 9"	4	3	4	7	3	1.25
M-6.06	6	17.8	3' 9"	6	2	6	8	3	0.86
M-6.12	12	18.25	4'	6	2	6	8	2	0.96
M-6.18	18	27.25	4' 9"	6	2	6	8	2	1.20
M-6.24	24	32.4	4' 9"	6	2	6	8	2	1.30



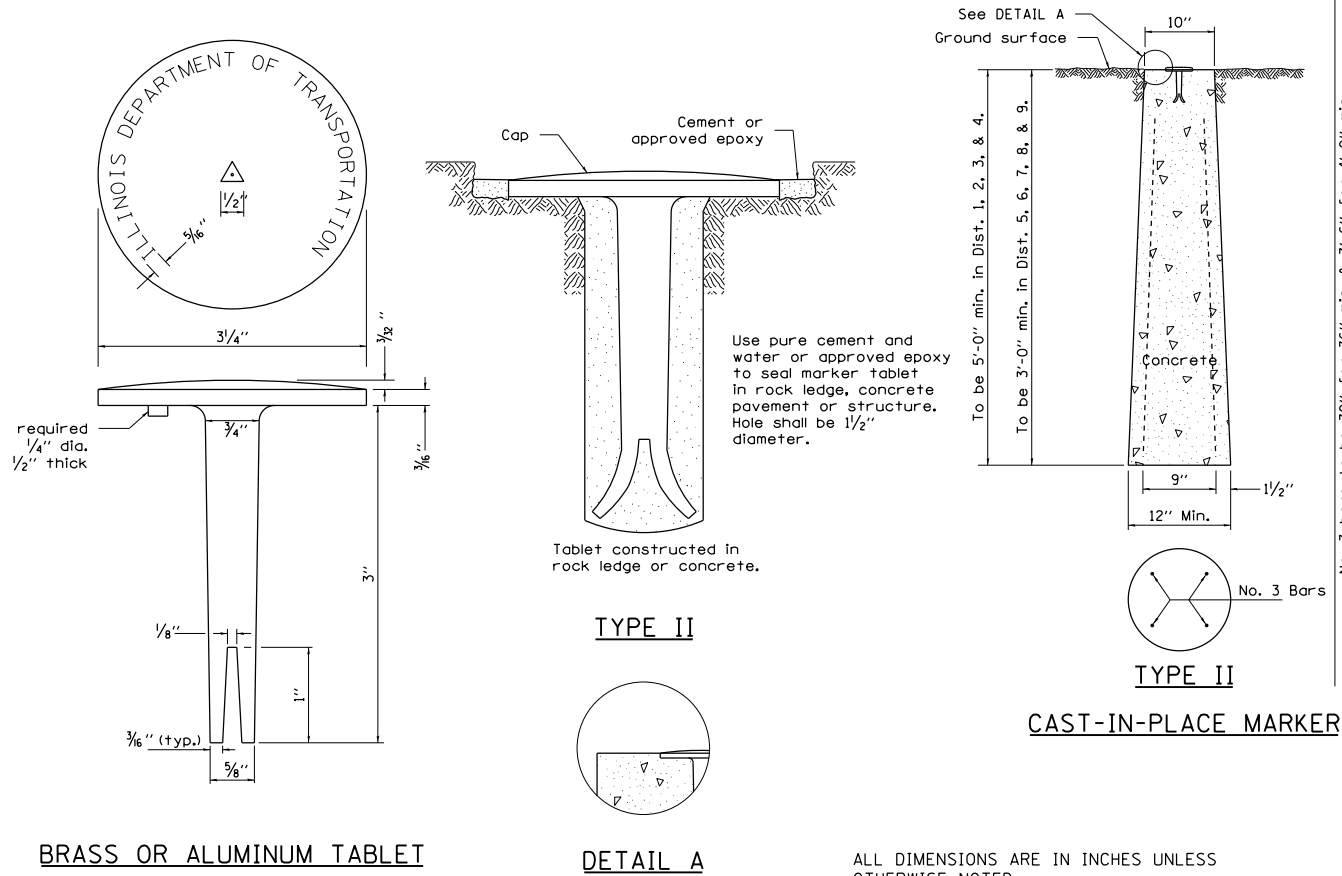
SECTION C-C

LAYOUT	
DRAWN	
REVIEWED	

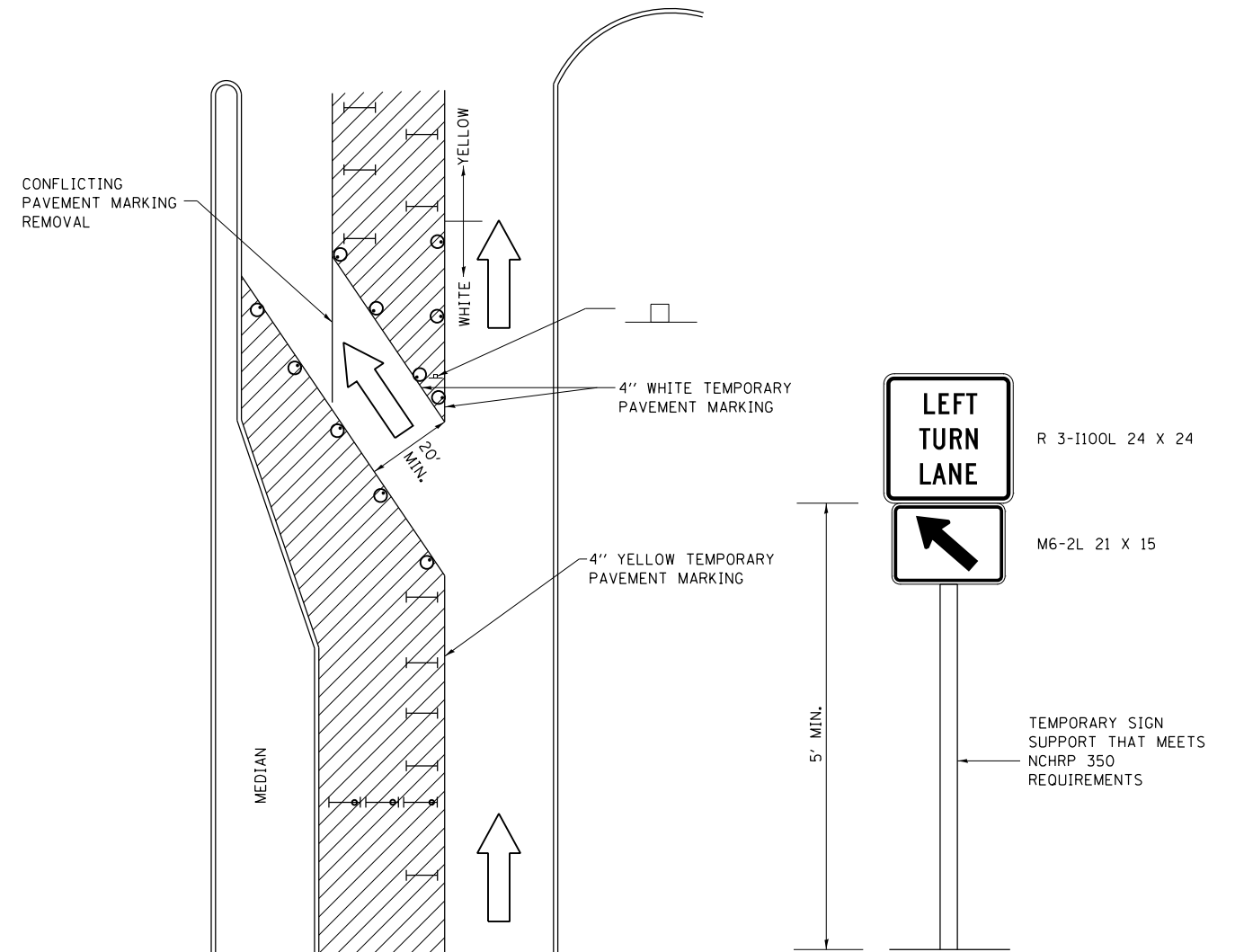
REVISED - 11-12-14	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 8-27-13		74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1543
REVISED - 10-10-06		CONTRACT NO. 64E26				
REVISED -		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.				

PLOT DATE = 3/22/2017

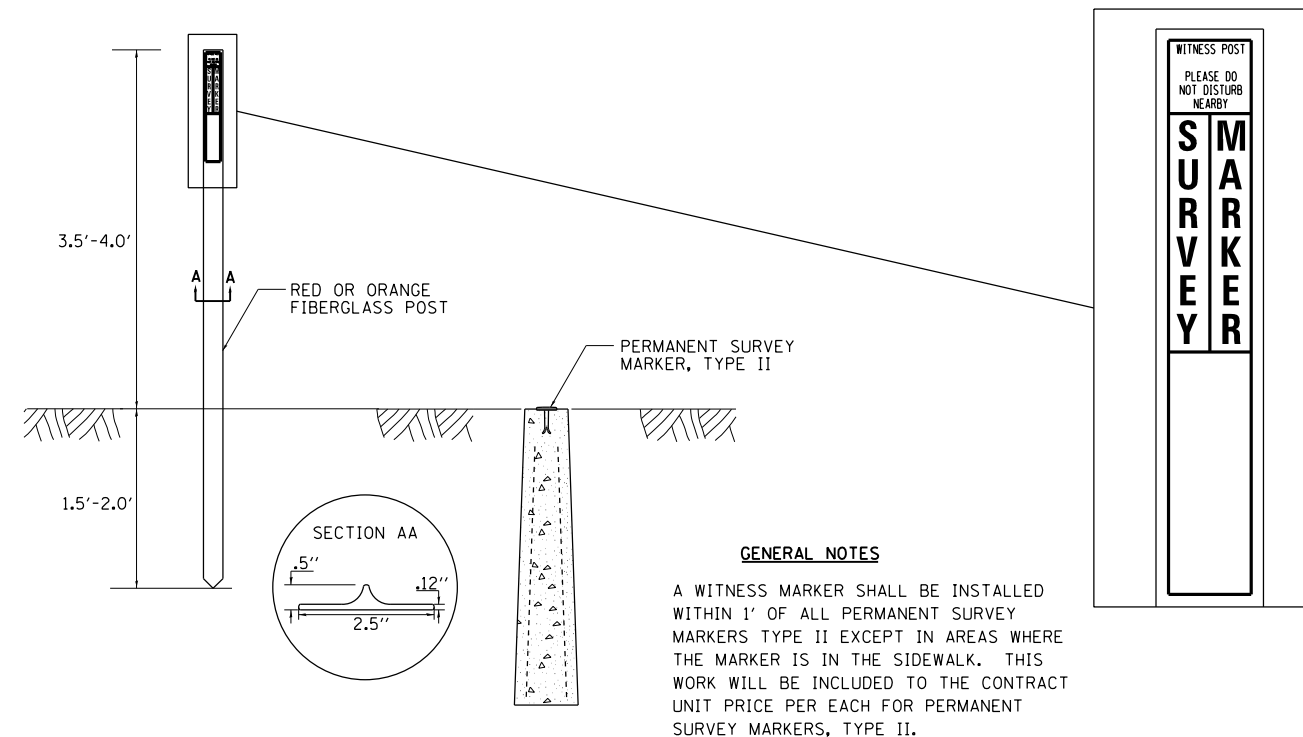
PERMANENT SURVEY MARKERS, TYPE II



TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
- DRUM OR BARRICADE WITH STEADY BURN LIGHT
- SIGN (SEE DETAIL)
- TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.
- STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.
- TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
- THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

LAYOUT	
DRAWN	
REVIEWED	

6-27-14
10-14-11

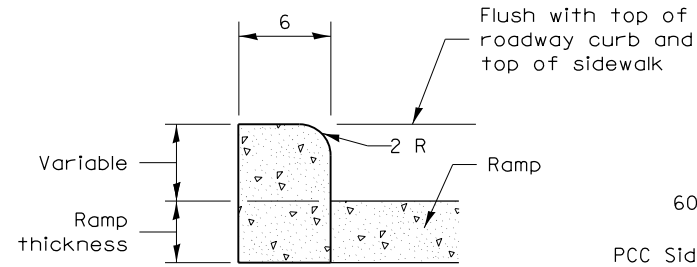
REVISED -	10-14-11
REVISED -	
REVISED -	
REVISED -	

REGION 2 / DISTRICT 2 STANDARD

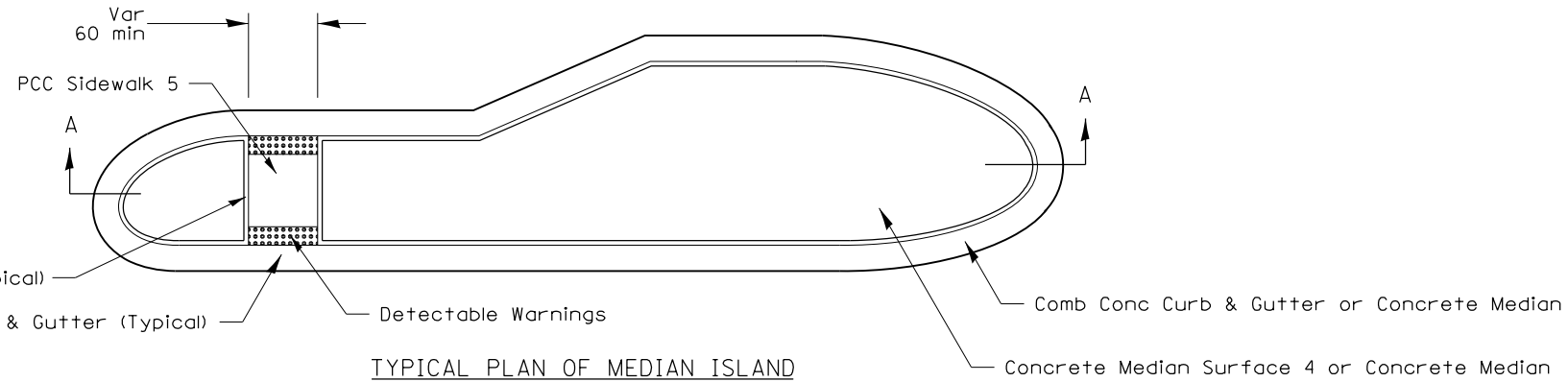
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11BR, HBR-1, HBR-2)	ROCK ISLAND	2042	1544
CONTRACT NO. 64E26				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

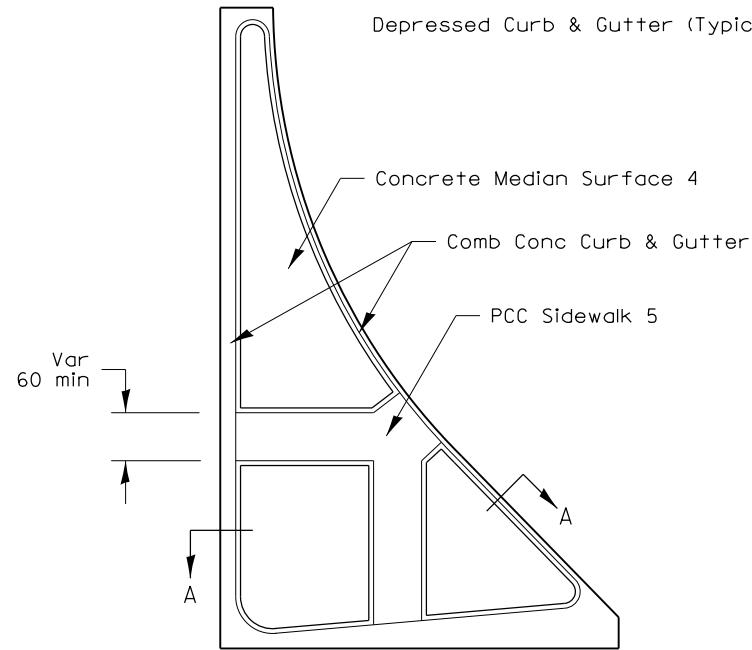
PC CONCRETE ISLANDS AND MEDIANS ACCESSIBLE TO THE DISABLED



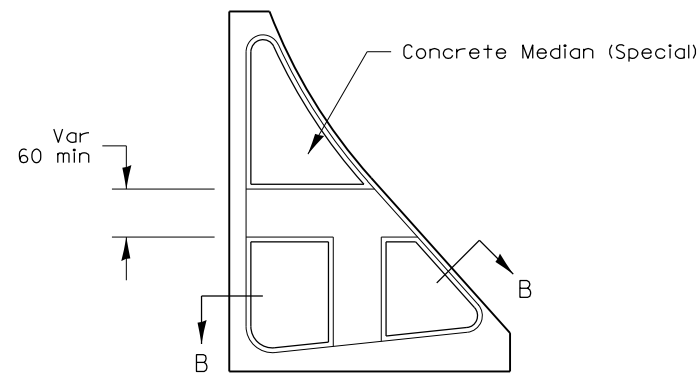
SIDE CURB DETAIL



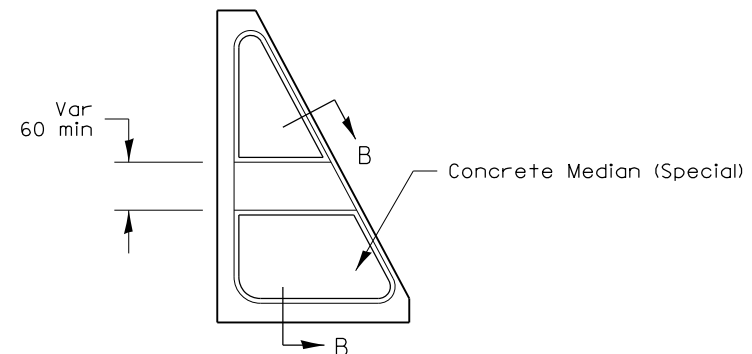
TYPICAL PLAN OF MEDIAN ISLAND



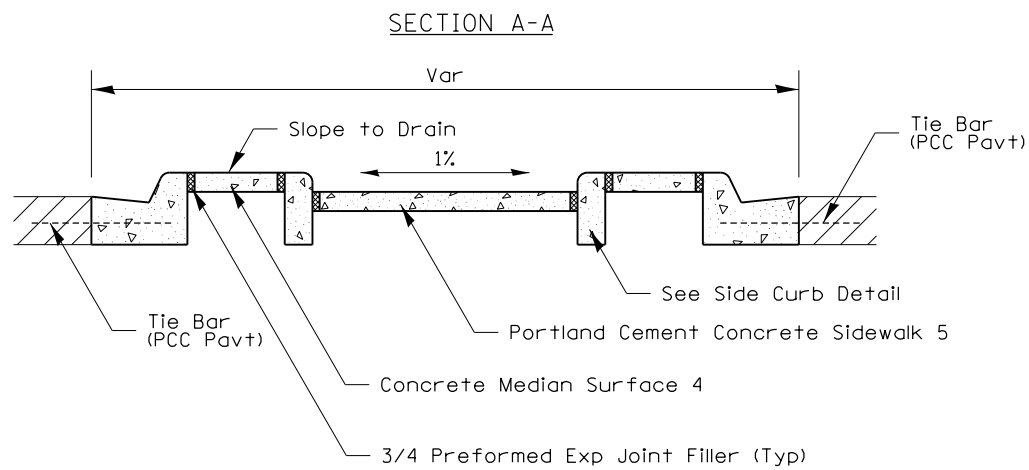
LARGE ISLAND
(Free Flow Design)



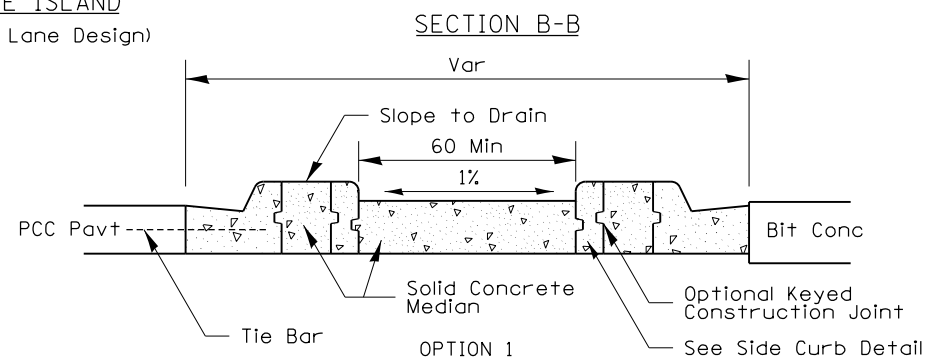
INTERMEDIATE ISLAND
(For Right Turn Lane Design)



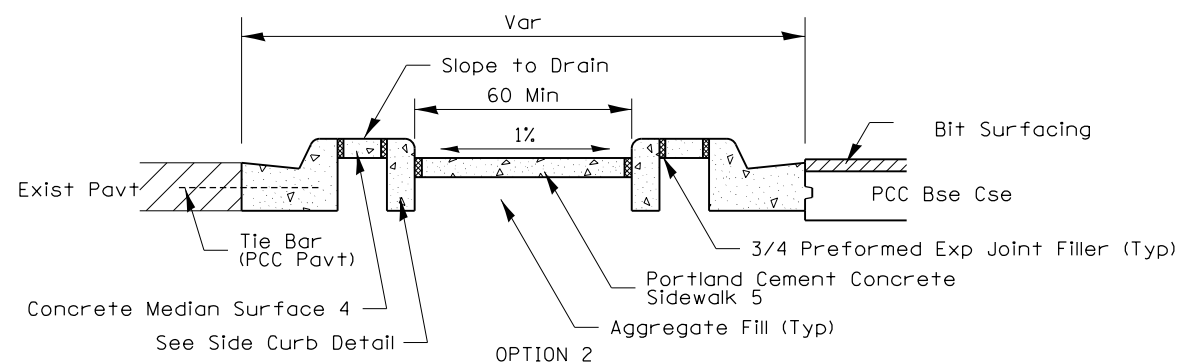
SMALL ISLAND
(For Typical Design)



SECTION A-A



SECTION B-B



SECTION B-B

General Notes:
See Standard 606301 and plan sheets for station & offsets, radii, dimensions, and details not shown.

See Standard 424031 for sidewalk details not shown.

The sidewalk should drain to the low side of the island. If necessary the sidewalk shall be sloped to drain at 1%.

See the plan general notes for the type of curb & gutter to be used on islands.

The sidewalk should not be closer than 36 from the corner of the island.

Keyed longitudinal construction joints shall be constructed without tie bars.

Medians and large islands shall consist of PCC Sidewalk 5, Concrete Median Surface 4, and Combination Concrete Curb & Gutter, Type M or B of the size specified. Median island can also be solid concrete medians.

Locations, layouts, and widths of the flush sidewalk area, shall be determined by the designer and shown on the plans.

The intermediate and small islands will be measured for payment from E.O.P. to E.O.P. using either option 1 or option 2, as specified in the plans, and will be paid for at the contract unit price per SQ FT for CONCRETE MEDIAN (SPECIAL) which shall include the combination curb & gutter, sidewalk, aggregate fill, concrete median surface, and solid concrete median.

Omit detectable warnings when distance between back of curbs is less than 6'.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
D2CONCD-HP5-sht-details30M.dgn	hehrn01663	-	1-05-16
		DRAWN -	REVISED -
		-	6-27-14
		CHECKED -	REVISED -
		-	8-27-13
		DATE -	REVISED -
		3/23/2017	10-09-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

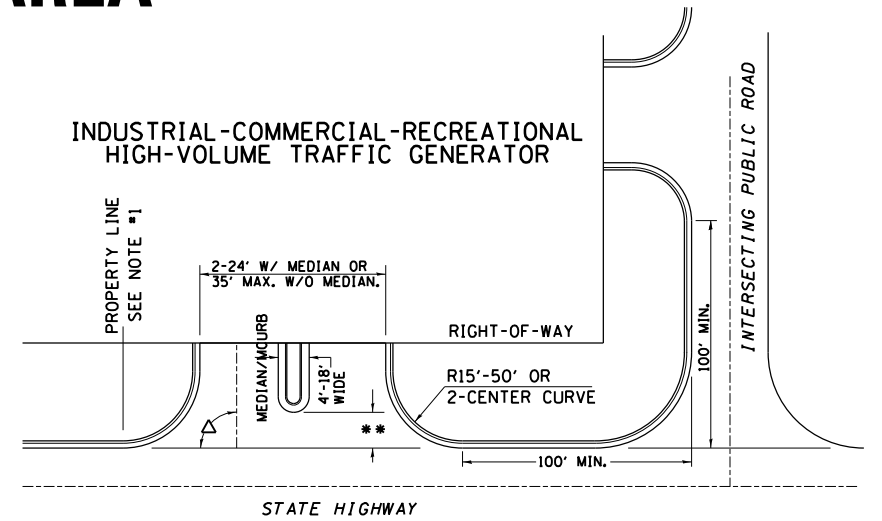
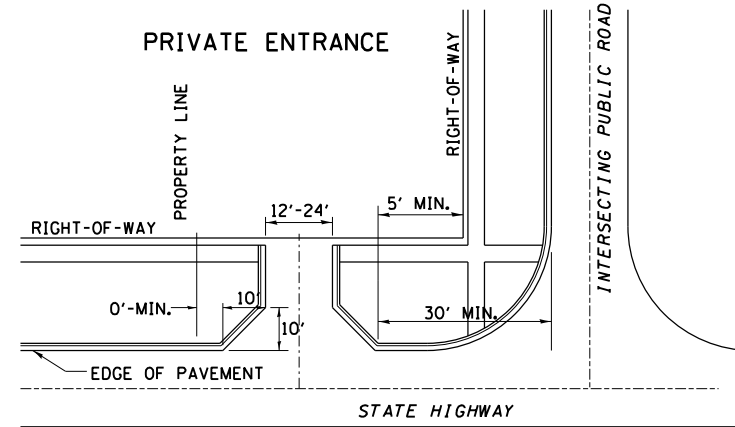
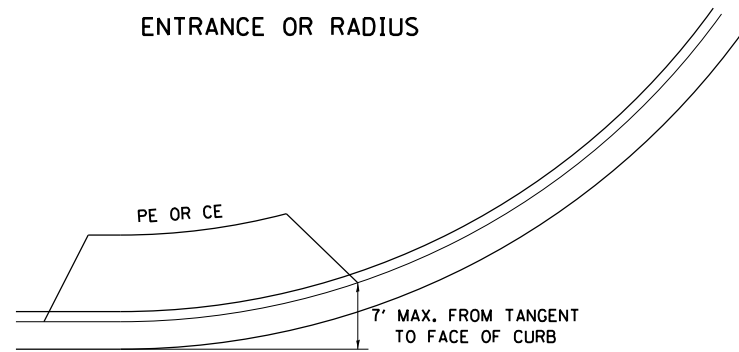
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1545
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

ENTRANCE APPROACHES – URBAN AREA

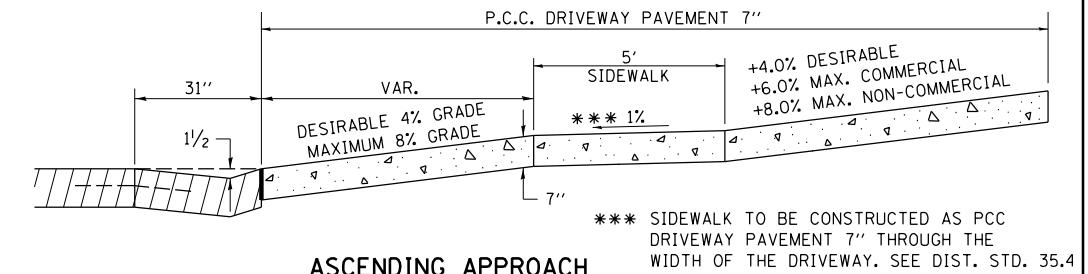
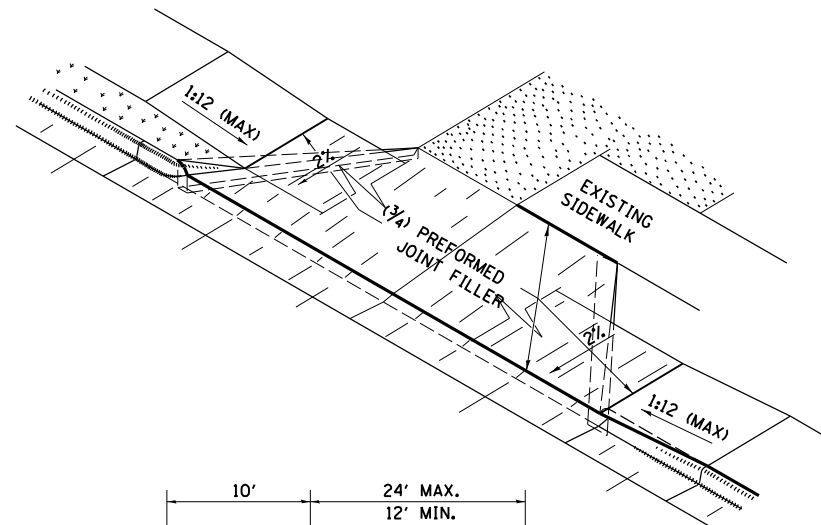
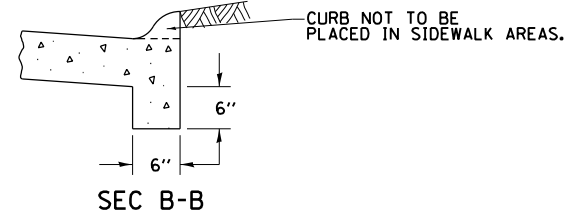
ENTRANCE OR RADIUS



A MINIMUM OF 440 FEET SHALL BE MAINTAINED BETWEEN CENTER LINES OF ADJACENT DRIVEWAYS.
 Δ 90° DESIRABLE, 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS.
 60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.

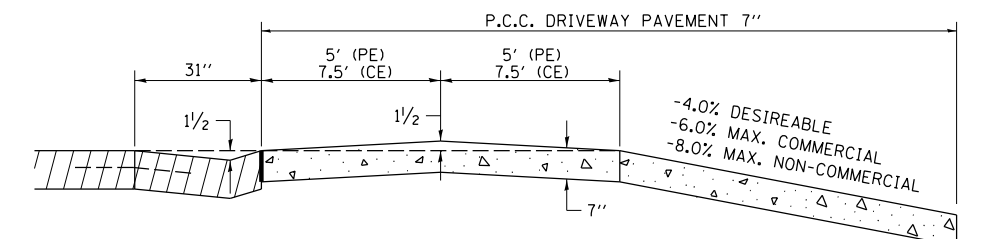
NOTE: #1 ENCROACHMENT ON THE ADJACENT PROPERTY OWNER LAND REQUIRES HIS OR HER WRITTEN APPROVAL.

** 4'-10" IF HIGHWAY CURBED.
 AT EDGE OF SHOULDER IF HIGHWAY UNCURBED.

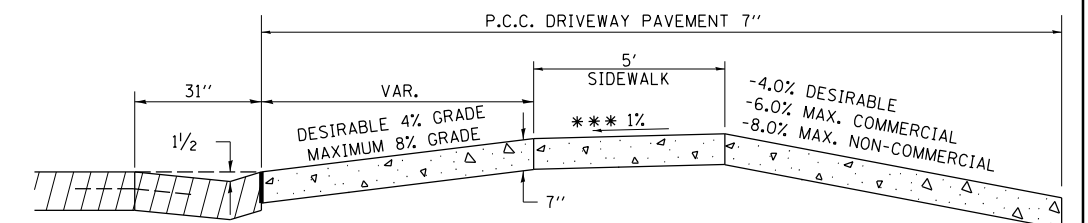


ASCENDING APPROACH

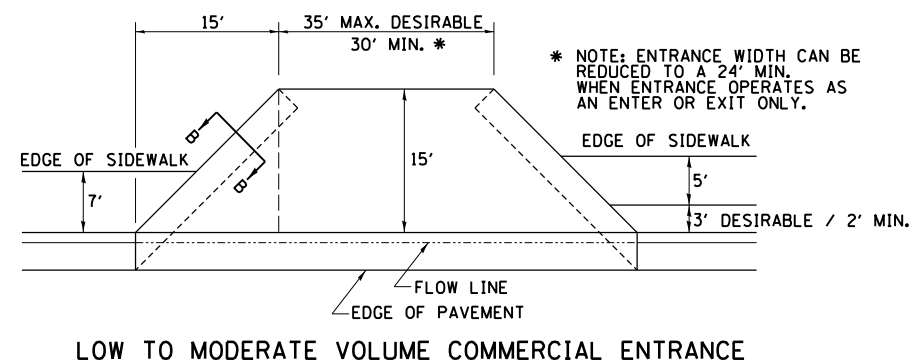
*** SIDEWALK TO BE CONSTRUCTED AS PCC DRIVEWAY PAVEMENT 7" THROUGH THE WIDTH OF THE DRIVEWAY. SEE DIST. STD. 35.4



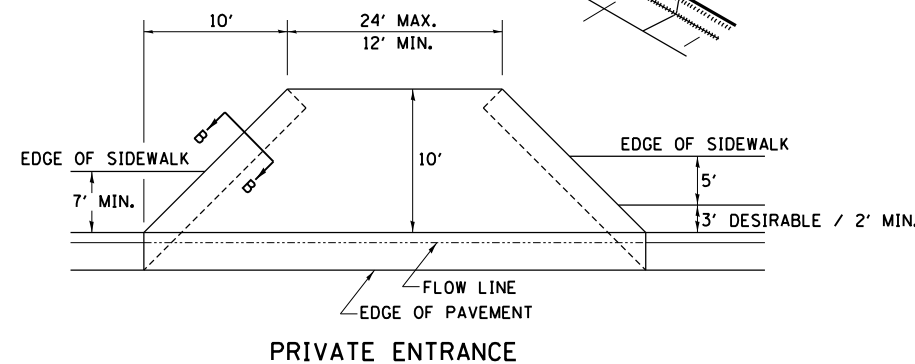
DESCENDING APPROACH (NO SIDEWALK)



DESCENDING APPROACH (WITH SIDEWALK)

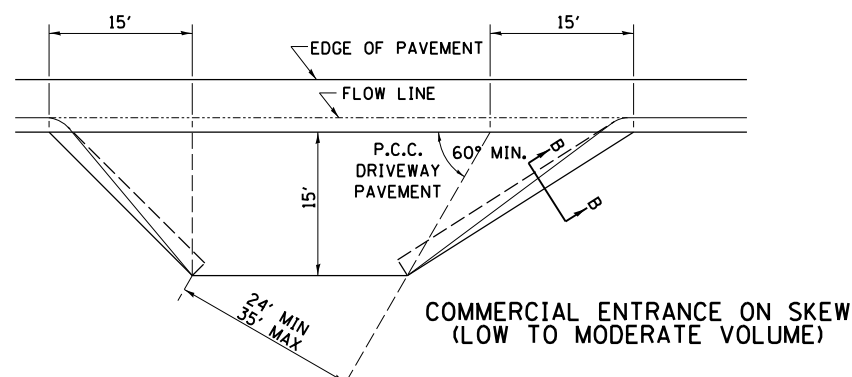


LOW TO MODERATE VOLUME COMMERCIAL ENTRANCE

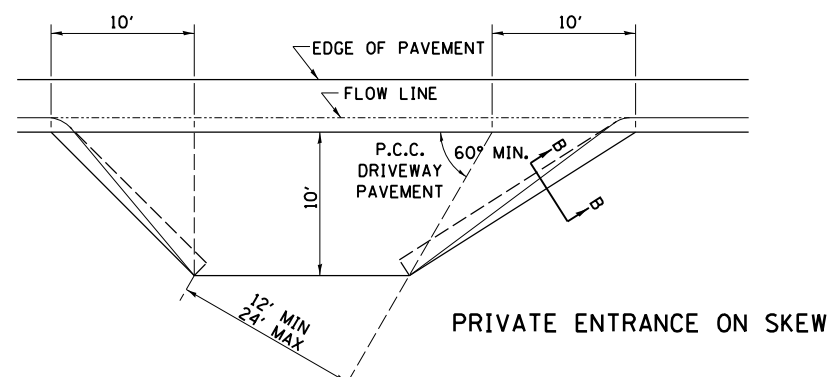


PRIVATE ENTRANCE

NOTE: CURVED ENTRANCE RETURNS MAY BE USED FOR LOW TO MODERATE VOLUME LOCATIONS WITH REVIEW ON A CASE-BY-CASE BASIS.



COMMERCIAL ENTRANCE ON SKEW (LOW TO MODERATE VOLUME)



PRIVATE ENTRANCE ON SKEW

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
D2CONCD-HP5-sht-details30M.dgn	hehrn01663	-	6-27-14
		DRAWN -	REVISED -
		-	12-07-10
PLOT SCALE =	CHECKED -	REVISED -	
	-	-	
PLOT DATE =	DATE -	REVISED -	
3/22/2017	3/23/2017	-	

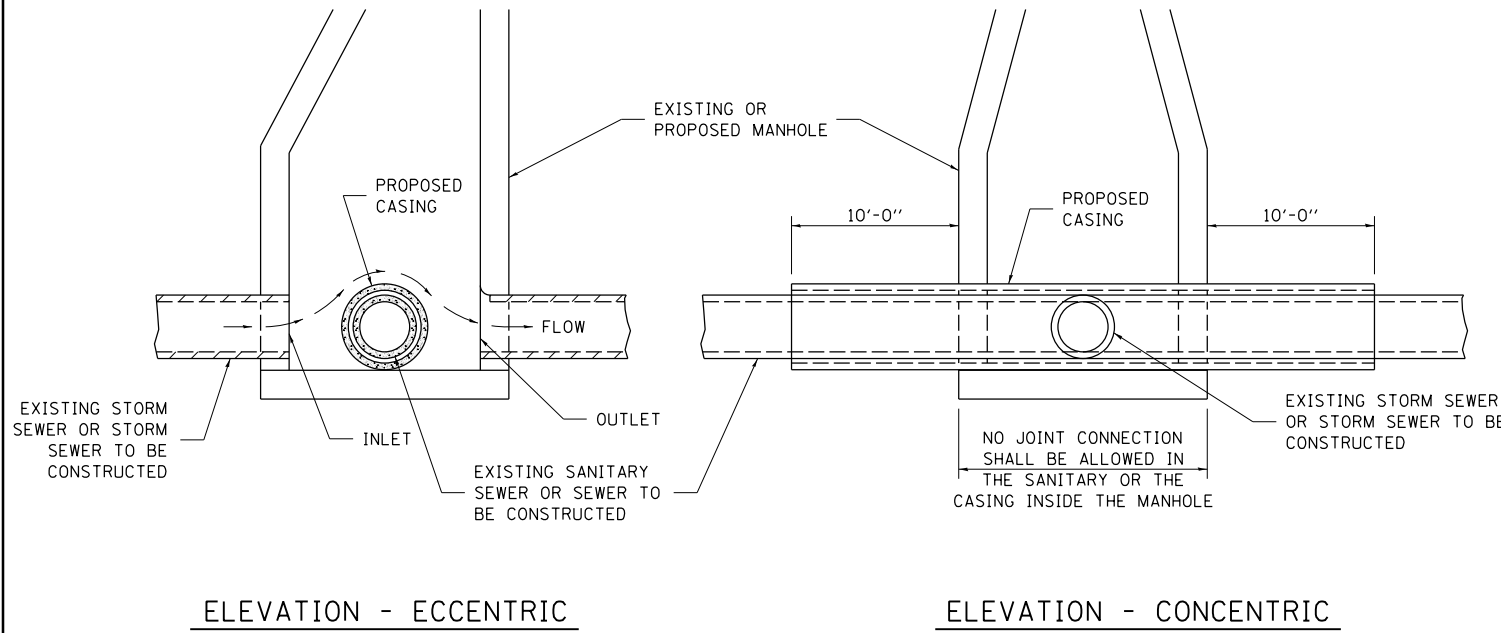
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1546
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

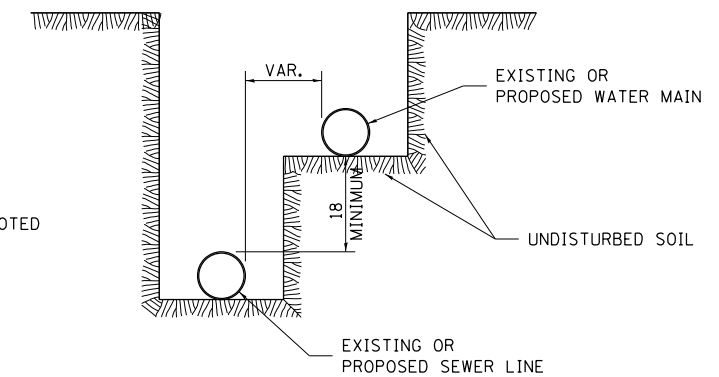
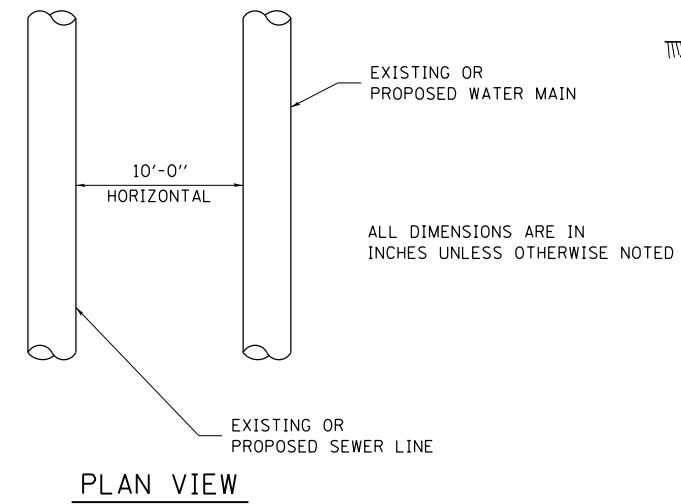
SEWER AND WATER MAIN CROSSINGS



THIS DETAIL IS FOR UNKNOWN UTILITIES UNLESS QUANTITIES ARE INCLUDED IN THE PLANS THE EXTRA WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10'-0" OR MORE FROM EXISTING WATER (OR SEWER) NO SPECIAL CONSTRUCTION REQUIRED.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10'-0" FROM EXISTING WATER (OR SEWER) DETAILS BELOW SHALL APPLY.

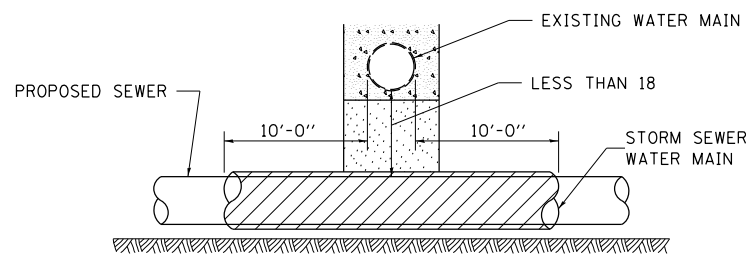


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

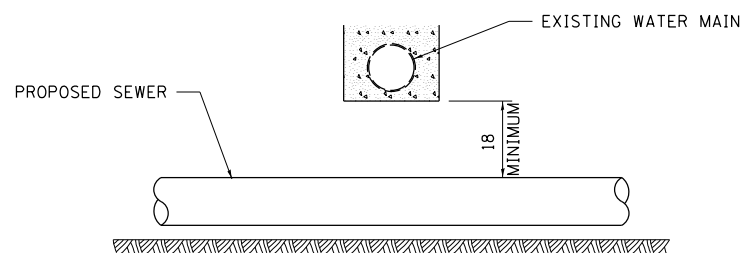
AT GRADE CROSSING OF SANITARY AND STORM SEWER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN
 PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH



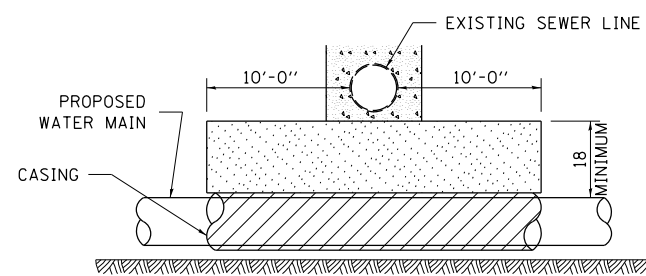
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

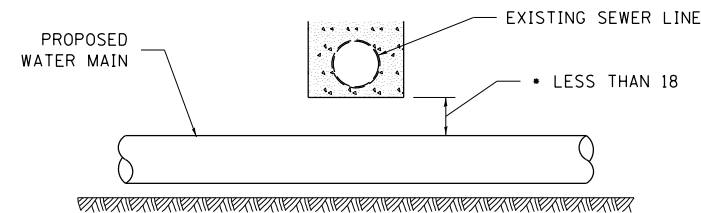
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT
 PLACE TRENCH BACKFILL FOR 10 FT. ON EITHER SIDE OF SEWER LINE



CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY

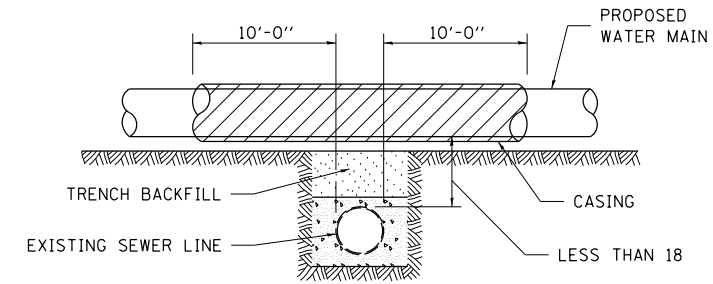


• NOT ALLOWED
 MUST MAINTAIN 18 VERTICAL SEPARATION

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER

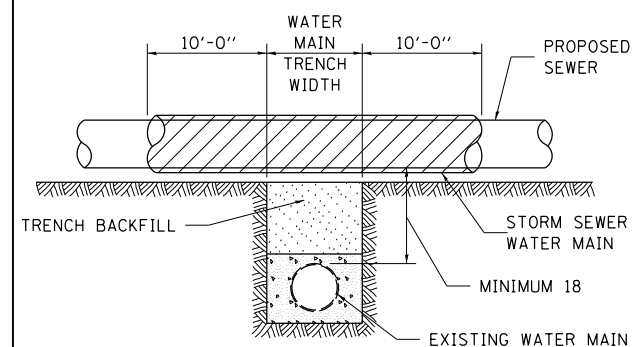


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH MINIMUM 18 VERTICAL SEPARATION

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME = hehn01663	DESIGNED -	REVISED - 10-17-11
D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 3/23/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

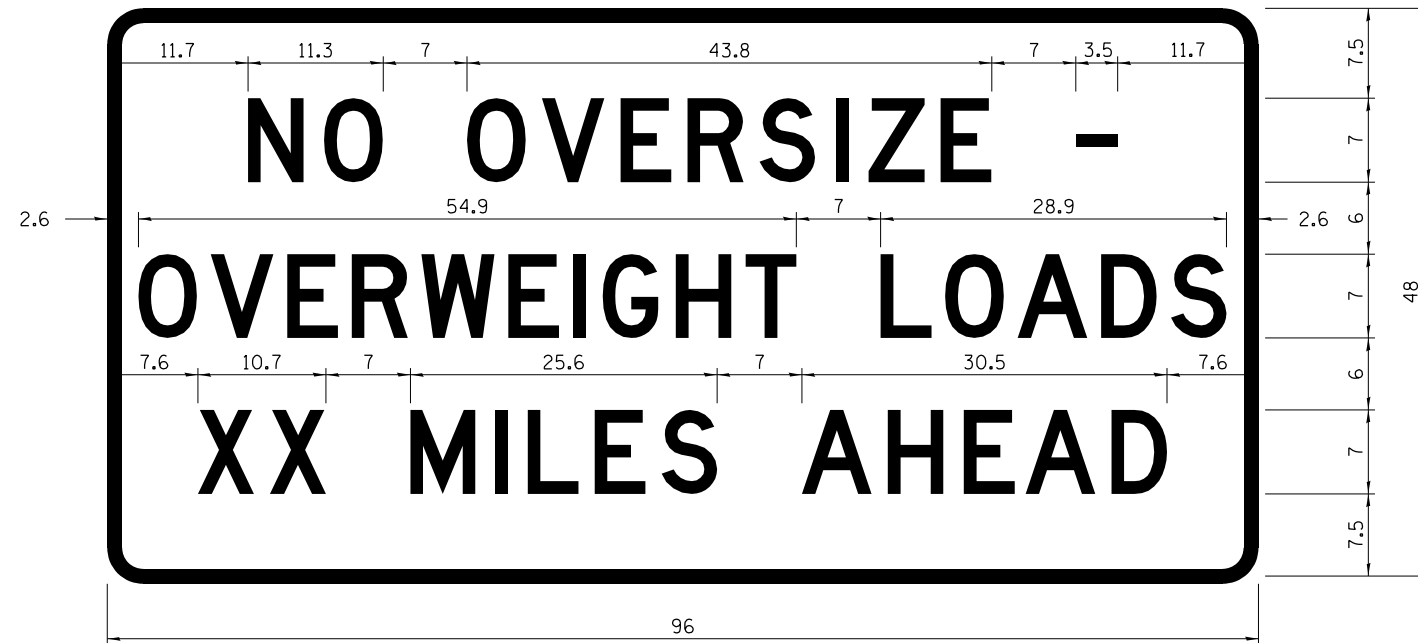
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1547
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

WORK ZONE SIGN DETAILS

STOP LINE SIGN FOR TEMPORARY SIGNALS

ROAD CLOSED TO OVERSIZED LOADS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border; [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D; Table of letter and object lefts.

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.



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LAYOUT	
DRAWN	
REVIEWED	

FILE NAME = D2CONCD-HPS-sht-details30M.dgn	USER NAME = hehn01663	DESIGNED -	REVISED - 3-02-16
		DRAWN -	REVISED -
		CHECKED -	REVISED -
PLOT DATE = 3/22/2017	DATE = 3/23/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

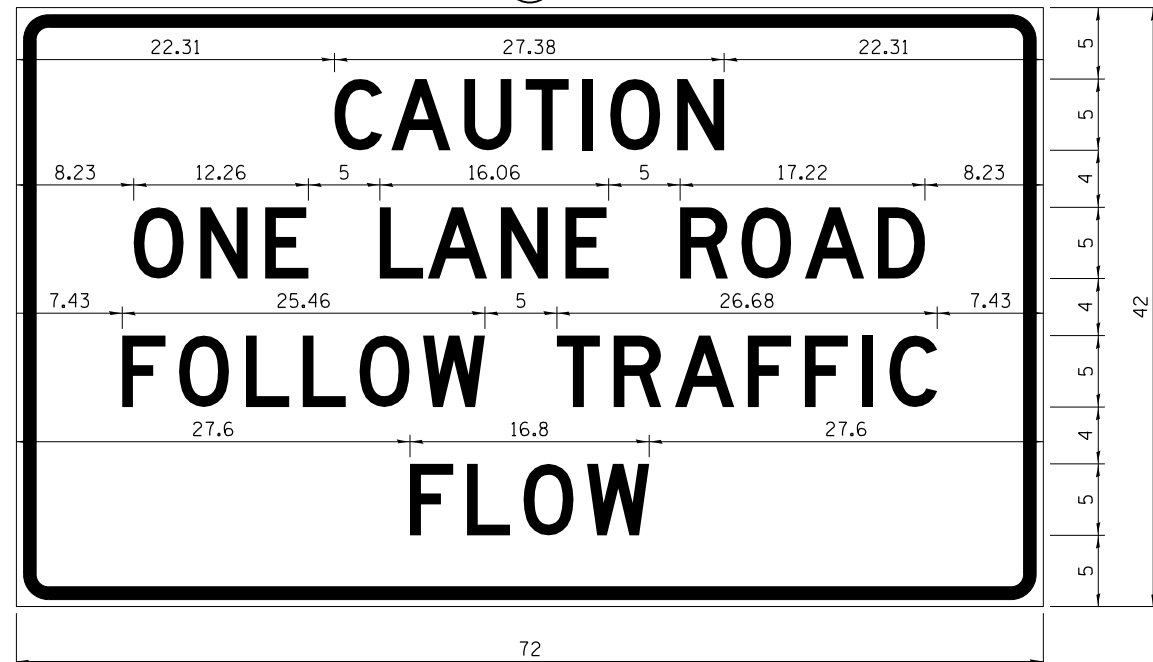
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-10HR, HBR-1, HBR-2)	ROCK ISLAND	2042	1550
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	A	U	T	I	O	N	22.31						
3.36	3.36	0.62	4.18	0.94	3.36	0.94	3.04	0.94	0.78	1.17	3.52	1.17	3.36	22.31

8.23	O	N	E	
3.51	1.17	3.36	1.18	3.04

5.00	L	A	N	E		
3.05	0.31	4.18	0.94	3.36	1.17	3.05

5.00	R	O	A	D			
3.36	0.93	3.52	0.94	4.18	0.93	3.36	8.23

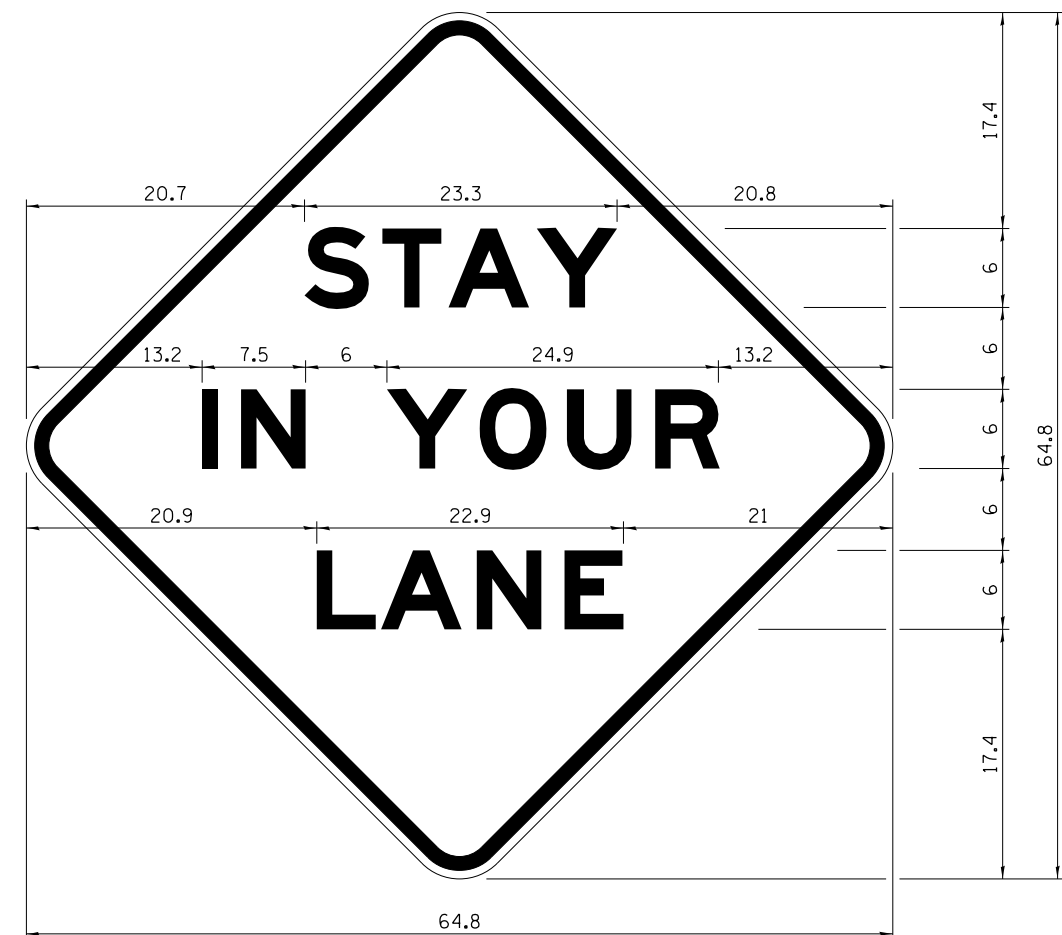
7.43	F	O	L	L	O	W				
3.04	0.94	3.52	1.17	3.04	0.94	3.05	0.94	3.51	0.94	4.37

5.00	T	R	A	F	F	I	C						
3.05	0.94	3.36	0.94	4.18	0.93	3.05	0.94	3.04	0.94	0.78	1.18	3.35	7.43

27.60	F	L	O	W			
3.05	0.94	3.04	0.94	3.52	0.93	4.38	27.60

Sign not to scale

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.



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LAYOUT	
DRAWN	
REVIEWED	

FILE NAME = D2CONCD-HPS-sht-details30M.dgn	USER NAME = hehr@1663	DESIGNED -	REVISED - 3-02-16
		DRAWN -	REVISED -
		CHECKED -	REVISED -
PLOT DATE = 3/22/2017	DATE - 3/23/2017		

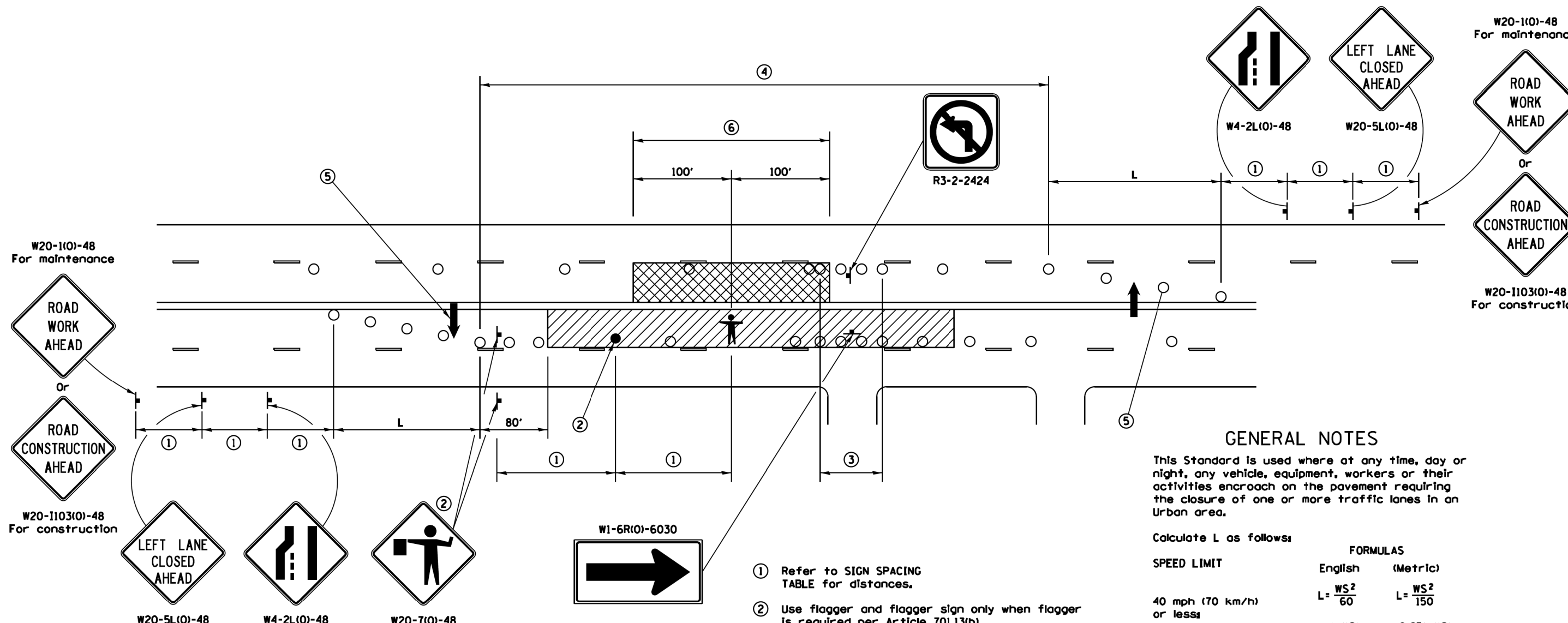
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-10HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1551
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

URBAN LANE INSIDE CLOSURE, MULTILANE, 2-WAY, WITH MOUNTABLE MEDIAN



GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an Urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).
S = Normal posted speed mph (km/h).

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

Lane closures in the opposite direction shall be removed when no workers are present.

Cones or reflectorized cones shall not be used during hours of darkness.

This Traffic Control detail shall be included in the cost of Traffic Control and Protection Standard 701606.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Use flagger and flagger sign only when flagger is required per Article 701.13(b).
- ③ Devices at 10' centers from edge of radius return to edge of radius return when left turns are prohibited due to actively working in the intersection.
- ④ Cones at 20' (6 m) centers for 250' (75 m). Additional cones may be placed at 40' (12 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled (excluding devices in intersections).
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑥ No equipment, materials, vehicles, or other hazards are allowed in the closed lane in the opposite direction within 100' of a worker on foot.

SYMBOLS

- WORK AREA
- CLOSED LANE
- ARROW BOARD
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- CONE, DRUM OR BARRICADE
- FLAGGER WITH TRAFFIC CONTROL SIGN.
- WORKER ON FOOT

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

LAYOUT
DRAWN
REVIEWED

FILE NAME = D2CONCD-HP5-sht-details30M.dgn	USER NAME = hehm01663	DESIGNED -	REVISED - 1-05-16
		DRAWN -	REVISED - 7-22-14
		CHECKED -	REVISED -
		DATE - 3/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

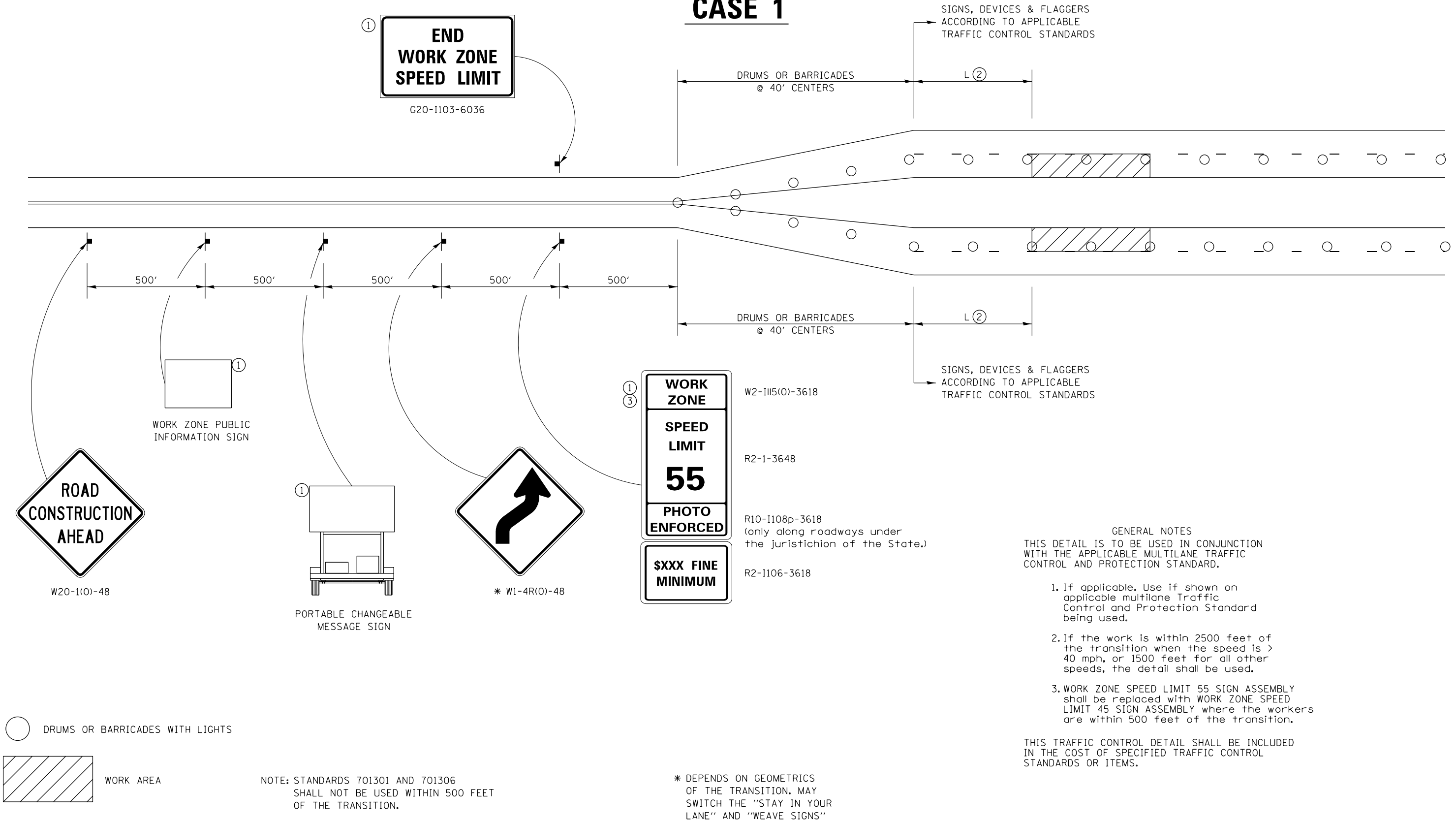
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1552
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 1



- GENERAL NOTES**
- THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.
1. If applicable, use if shown on applicable multilane Traffic Control and Protection Standard being used.
 2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
 3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

* DEPENDS ON GEOMETRICS OF THE TRANSITION. MAY SWITCH THE "STAY IN YOUR LANE" AND "WEAVE SIGNS"

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME = petke00954	DESIGNED -	REVISED - 4-20-17
D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED - 1-05-16
		CHECKED -	REVISED - 8-27-13
		DATE - 3/23/2017	REVISED - 1-16-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

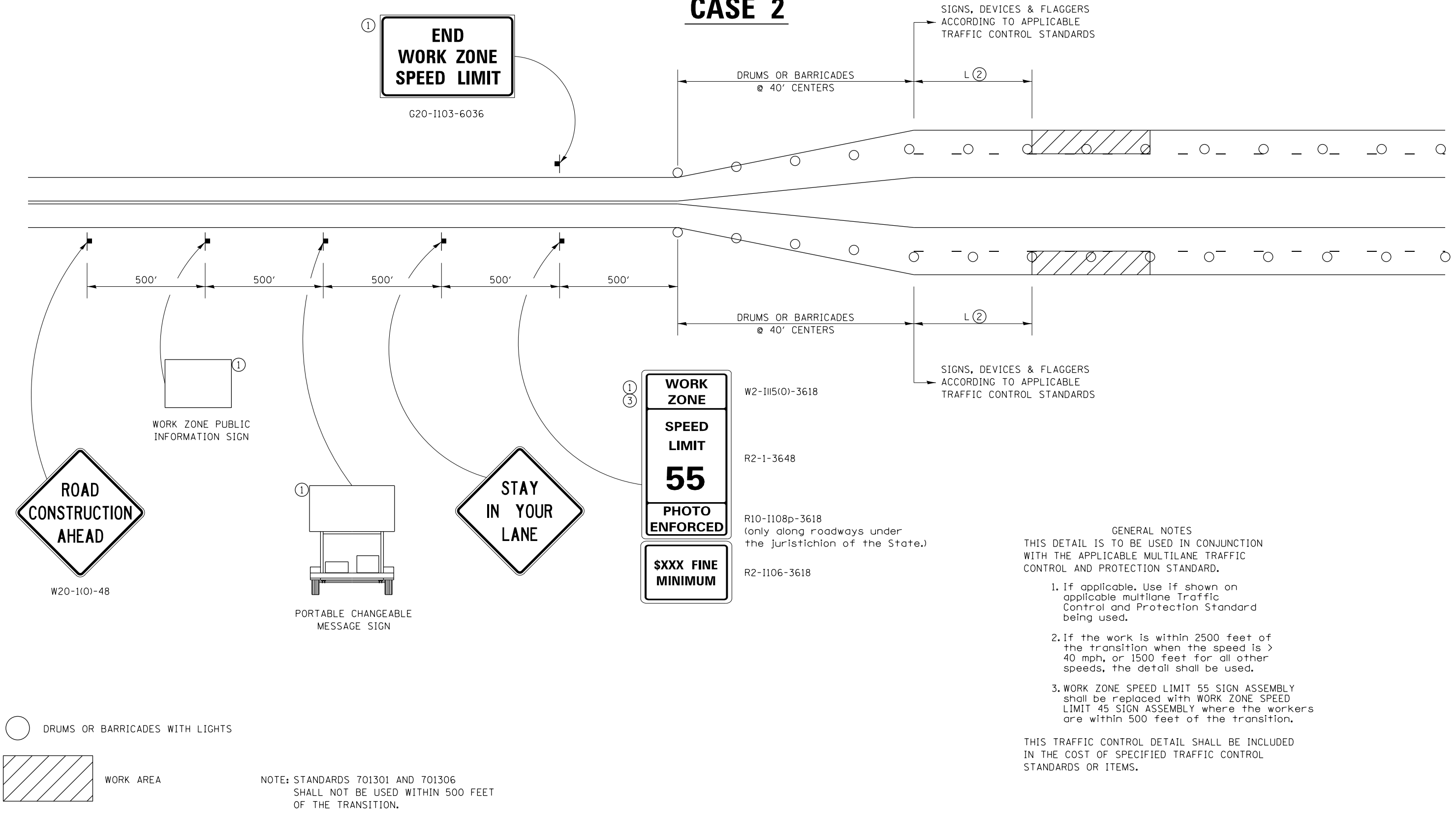
REGION 2 / DISTRICT 2 STANDARD

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1553
CONTRACT NO. 64E26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 2



LAYOUT	DRAWN	REVIEWED

FILE NAME =	USER NAME = petke00954	DESIGNED -	REVISED - 4-20-17
D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED - 1-05-16
		CHECKED -	REVISED - 8-27-13
		DATE - 3/23/2017	REVISED - 1-16-13

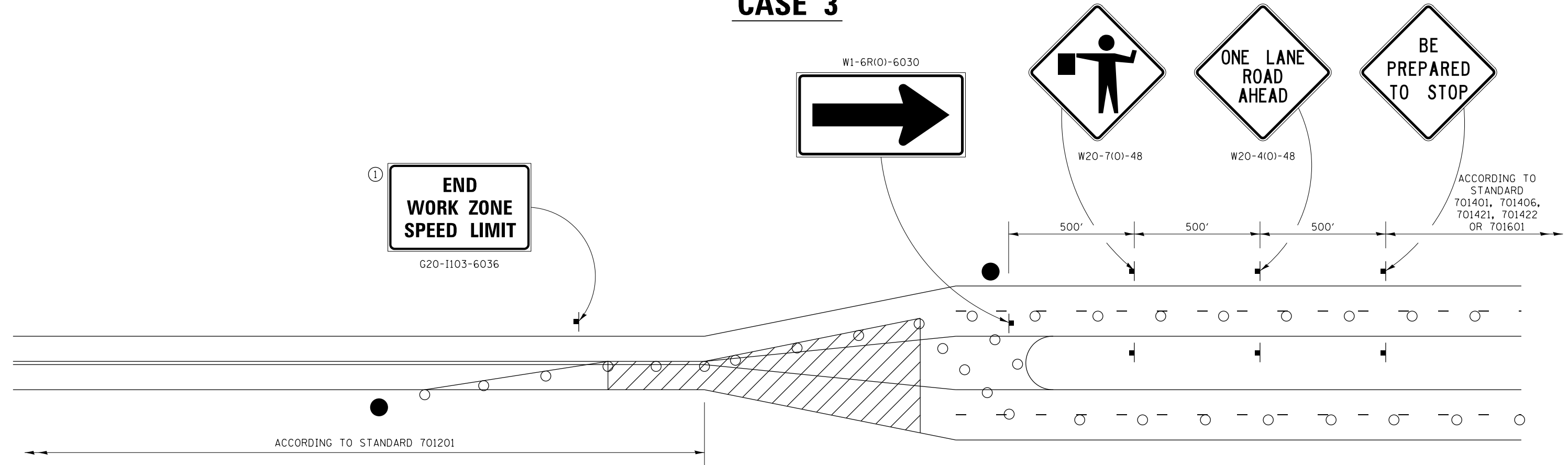
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1554
CONTRACT NO. 64E26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 3



GENERAL NOTES
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable, Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

- FLAGGER WITH TRAFFIC CONTROL SIGN
- DRUMS OR BARRICADES WITH LIGHTS
- WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

LAYOUT
DRAWN
REVIEWED

FILE NAME =	USER NAME = petke00954	DESIGNED -	REVISED - 4-20-17
D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED - 1-05-16
		CHECKED -	REVISED - 8-27-13
		DATE - 3/23/2017	REVISED - 3-05-12

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

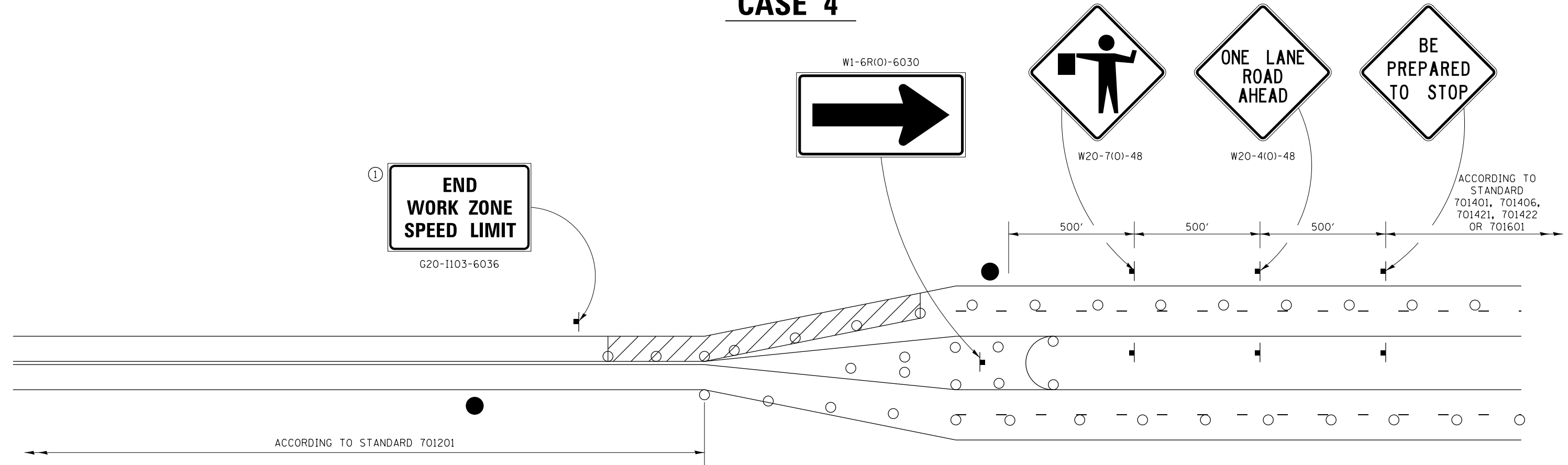
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1555
CONTRACT NO. 64E26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 4



GENERAL NOTES
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable, Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

● FLAGGER WITH TRAFFIC CONTROL SIGN

○ DRUMS OR BARRICADES WITH LIGHTS

WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

LAYOUT
DRAWN
REVIEWED

FILE NAME = D2CONCD-HP5-sht-details30M.dgn	USER NAME = petke00954	DESIGNED - DRAWN -	REVISED - REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 4/24/2017	DATE - 3/23/2017	REVISED - 3-05-12	

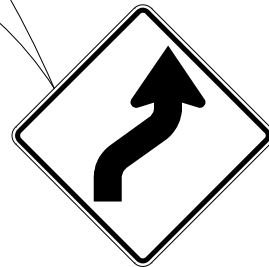
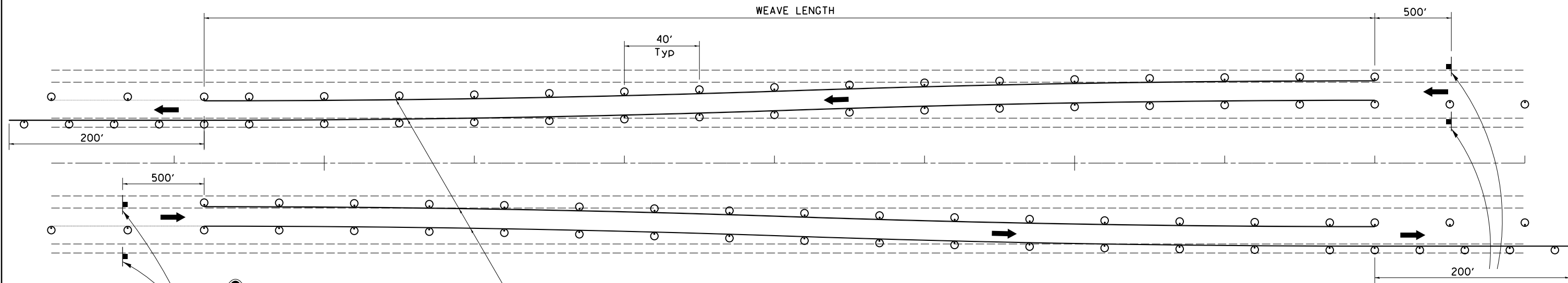
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

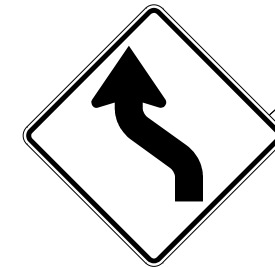
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1556
CONTRACT NO. 64E26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL TYPICAL WEAVE



W1-4R(O)-48

Temporary Pavement Marking required if Typical Weave is used for 14 days or more.



W1-4L(O)-48

SYMBOLS

- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- SIGN

STANDARD WEAVE CONDITIONS FOR DIFFERENT SPEED LIMITS

POSTED SPEED LIMIT	WEAVE LENGTH
65 MPH OR HIGHER	780 FT.
55 MPH	660 FT.
45 MPH	540 FT.

GENERAL NOTES:

USE ON LONG 4-LANE PROJECTS WHERE THE CONTRACTOR MAY CHANGE A PORTION OF THE WORK TO THE OPPOSITE LANE.

USE WHERE THE PROJECT IS ADJACENT TO ANOTHER AND THE CONTRACTOR COULD BE WORKING ON DIFFERENT LANES.

TEMPORARY PAVEMENT MARKING SHALL BE USED WHEN TYPICAL WEAVE IS USED FOR 14 DAYS OR MORE.

TRAFFIC CONTROL TYPICAL WEAVE SHALL BE INCLUDED IN THE COST OF THE SPECIFIC TRAFFIC CONTROL STANDARDS OF ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

LAYOUT	DRAWN	REVIEWED

FILE NAME =	USER NAME = hehn01663	DESIGNED -	REVISED - 1-05-16
D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED - 6-27-14
		CHECKED -	REVISED - 8-27-13
		DATE - 3/23/2017	REVISED - 10-17-11

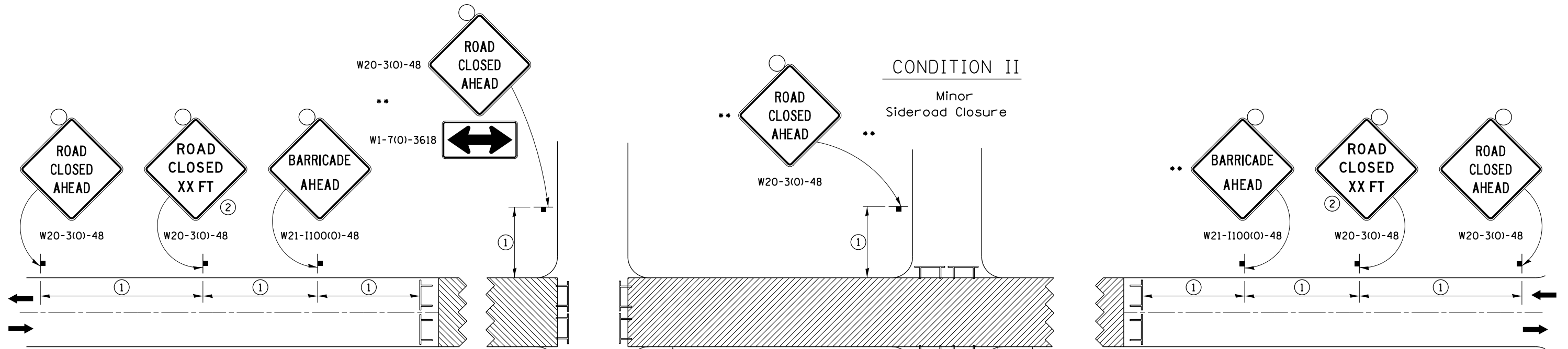
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD




SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1557
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

TRAFFIC CONTROL FOR ROAD CLOSURE



SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

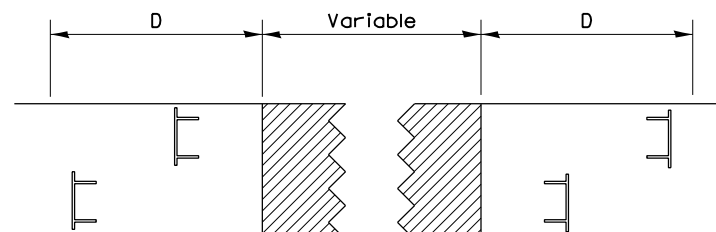
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

LAYOUT
DRAWN
REVIEWED

FILE NAME =	USER NAME = hehm01663	DESIGNED -	REVISED - 1-05-16
D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED - 8-27-13
		CHECKED -	REVISED - 10-17-11
		DATE - 3/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

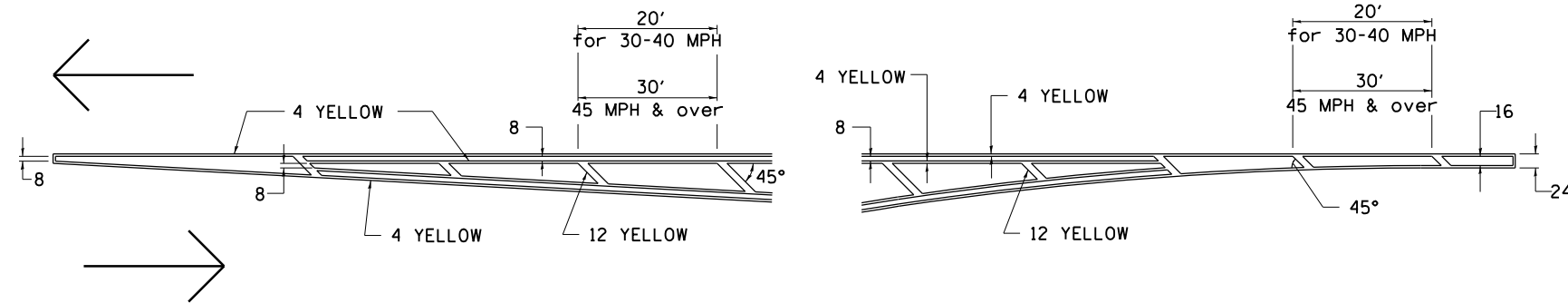
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1558
CONTRACT NO. 64E26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

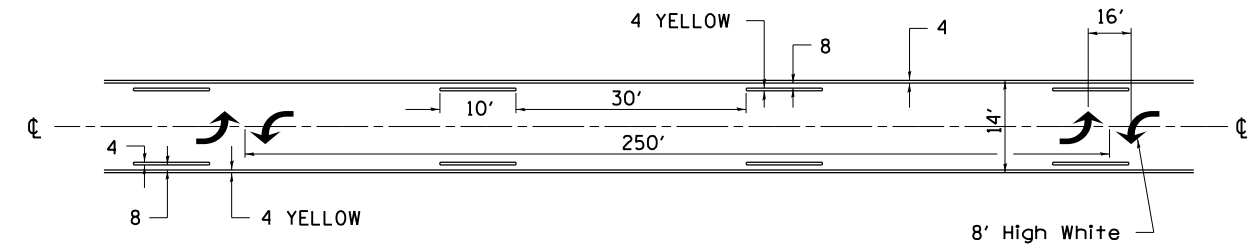
TYPICAL APPLICATION FOR ROAD CLOSURE

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

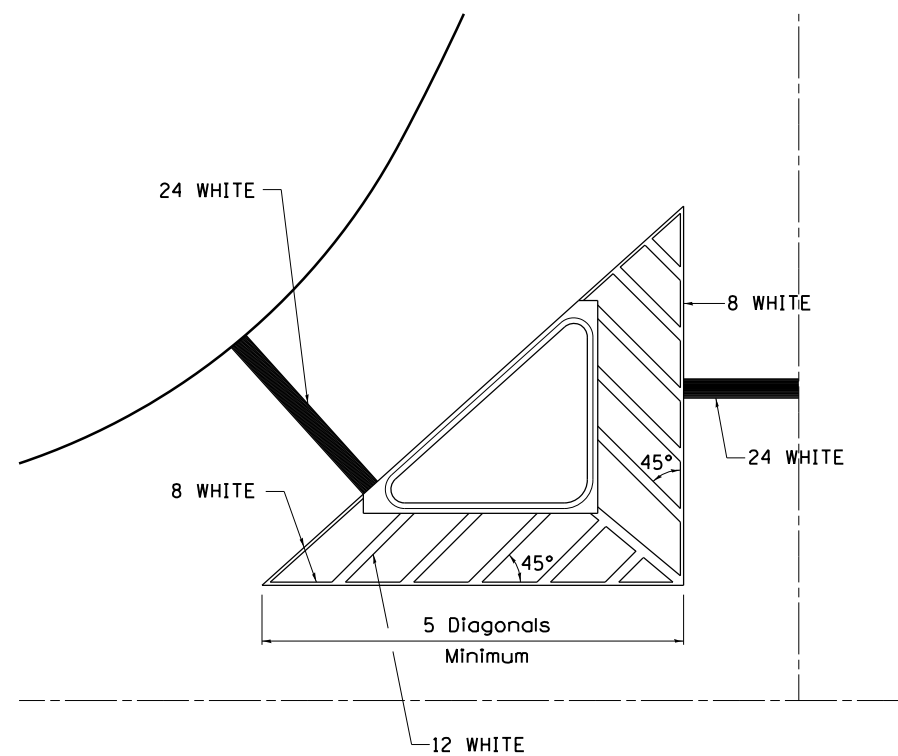


MEDIAN PAVEMENT MARKING



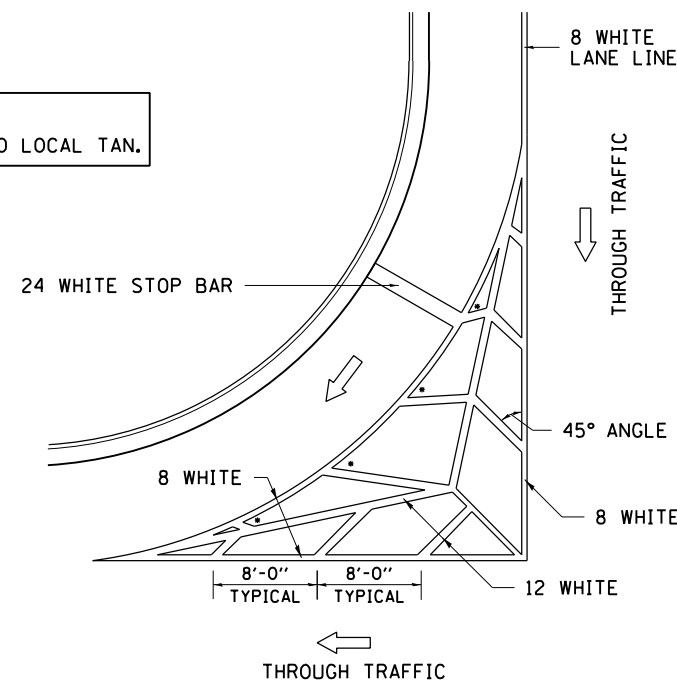
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



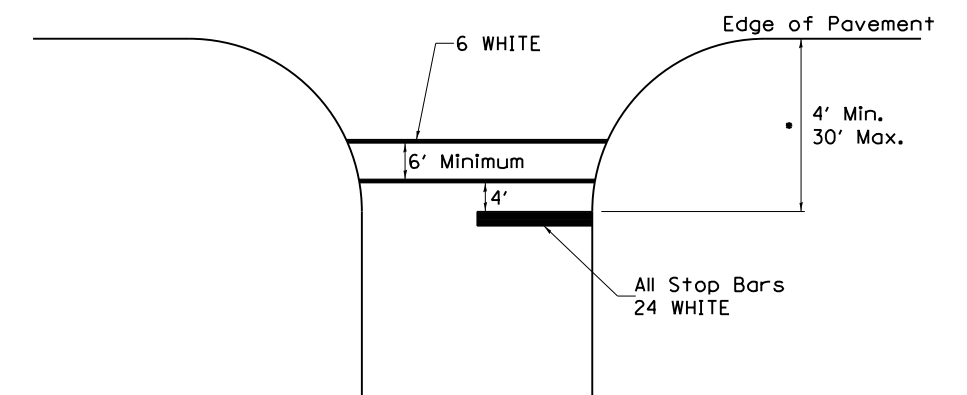
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

LAYOUT
DRAWN
REVIEWED

FILE NAME =	USER NAME = hehm01663	DESIGNED -	REVISED - 6-27-14
D2CONCD-HPS-sht-details30M.dgn		DRAWN -	REVISED - 3-05-12
		CHECKED -	REVISED -
		DATE - 3/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

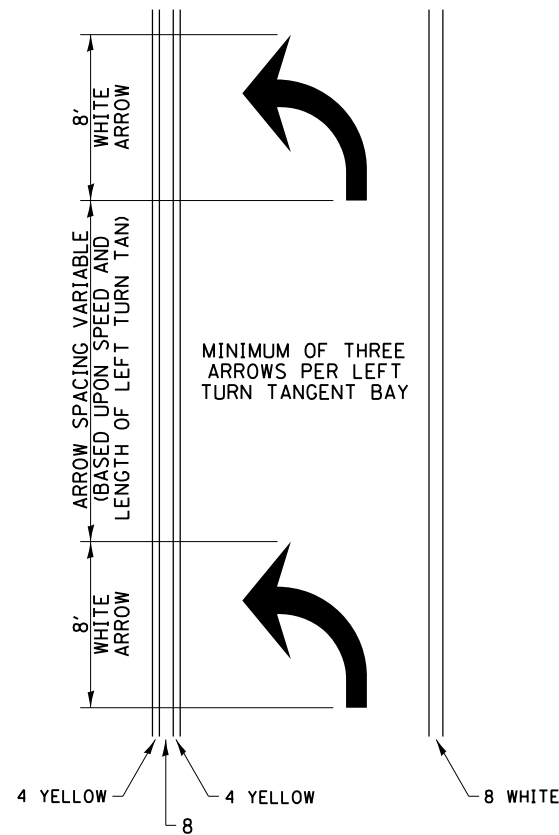
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1559
CONTRACT NO. 64E26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

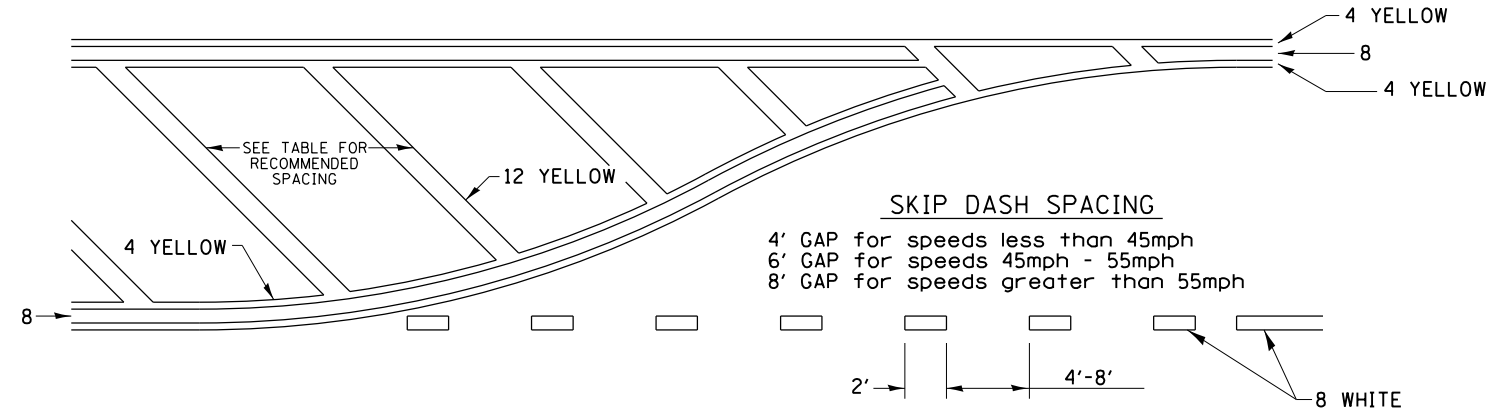
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

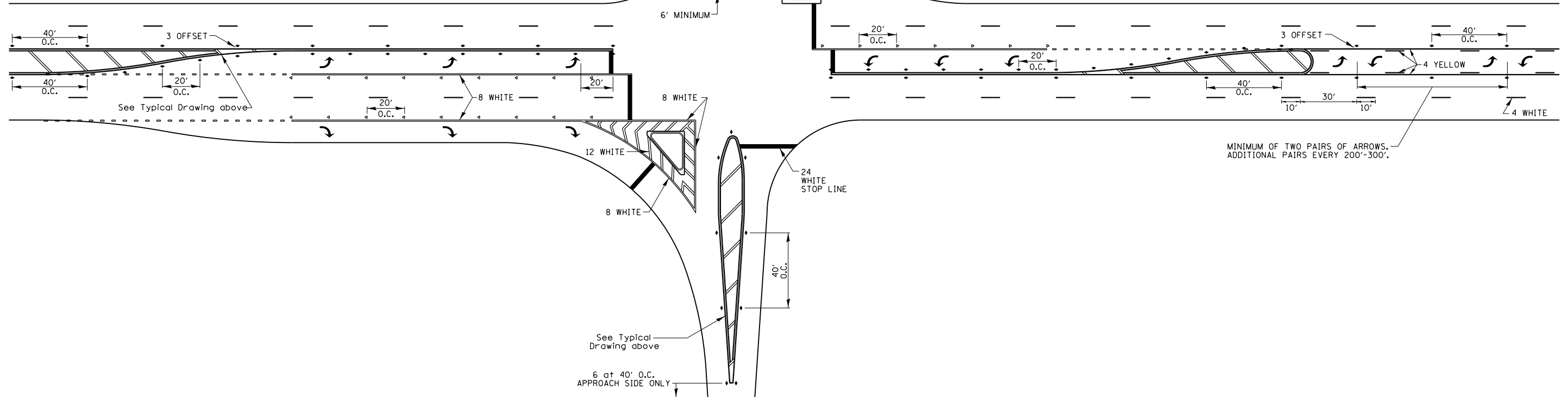
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME = hehn01663	DESIGNED -	REVISED - 6-27-14
D2CONCD-HPS-sht-details30M.dgn		DRAWN -	REVISED - 3-05-12
		CHECKED -	REVISED -
		DATE - 3/23/2017	REVISED -

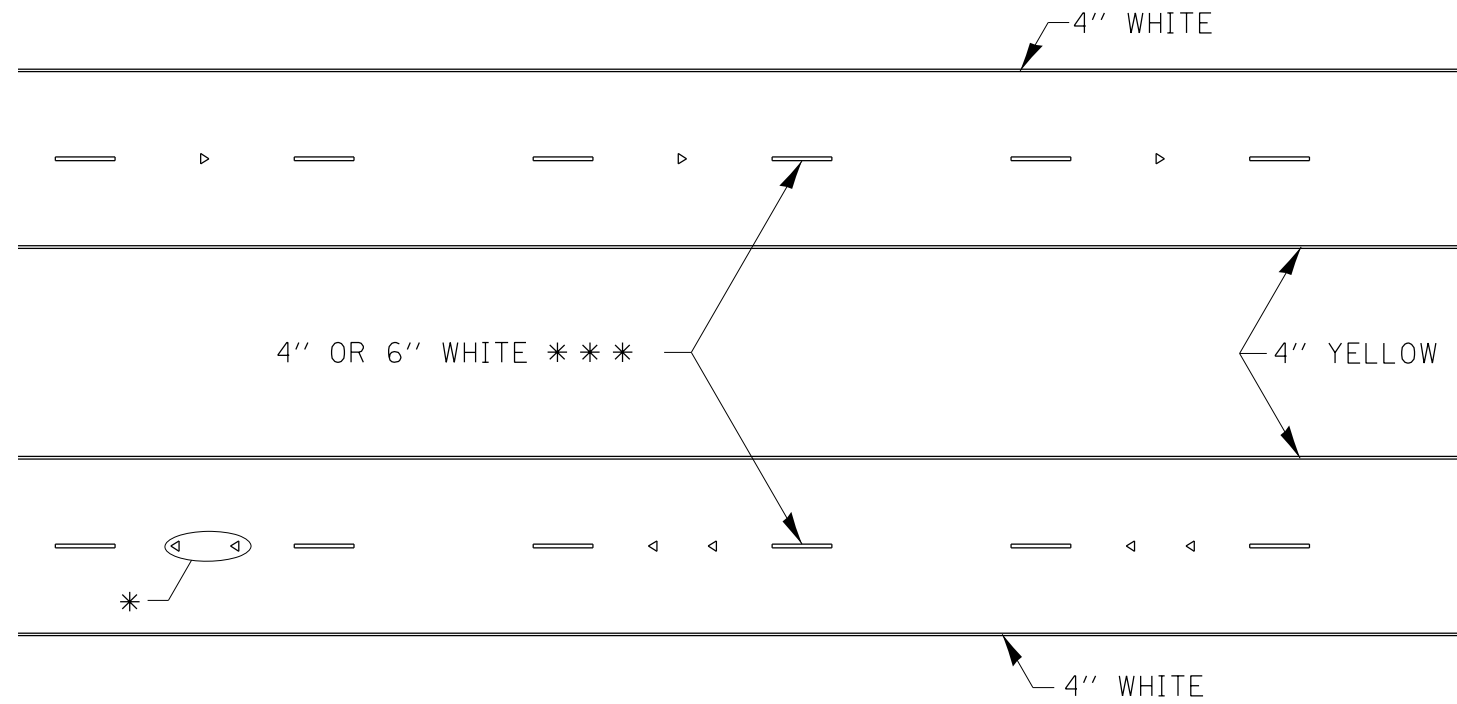
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

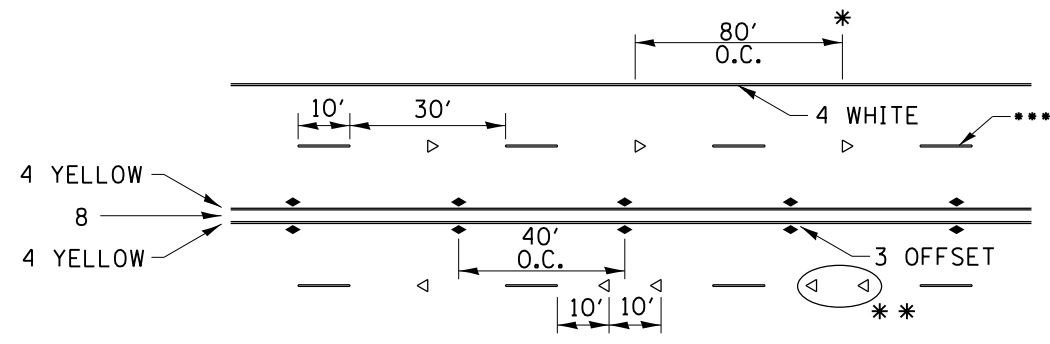
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1560
CONTRACT NO. 64E26				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



• REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

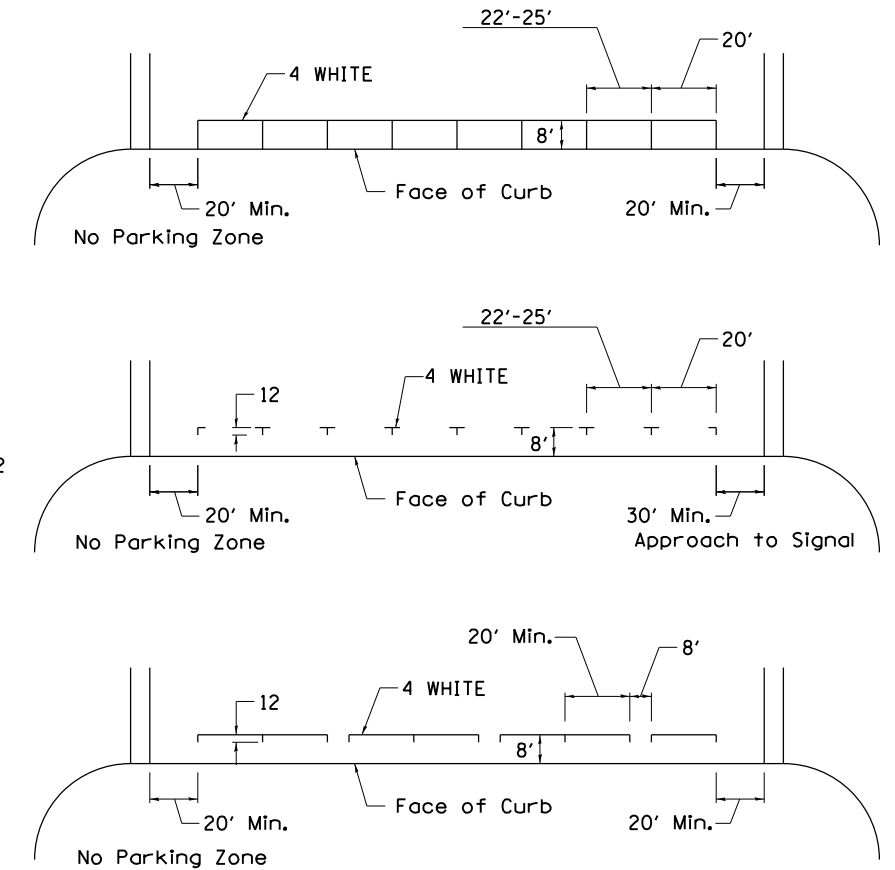
•• USE DOUBLE MARKERS WHEN ADT ≥ 20,000

••• CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

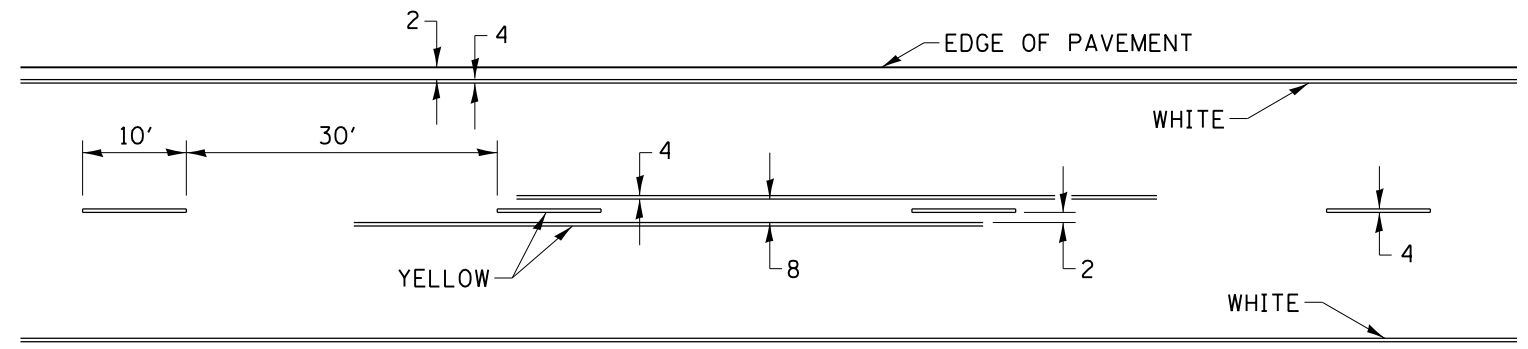
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME = hehm01663	DESIGNED -	REVISED - 6-27-14
D2CONCD-HPS-sht-details30M.dgn		DRAWN -	REVISED - 8-27-13
		CHECKED -	REVISED - 11-28-12
		DATE - 3/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

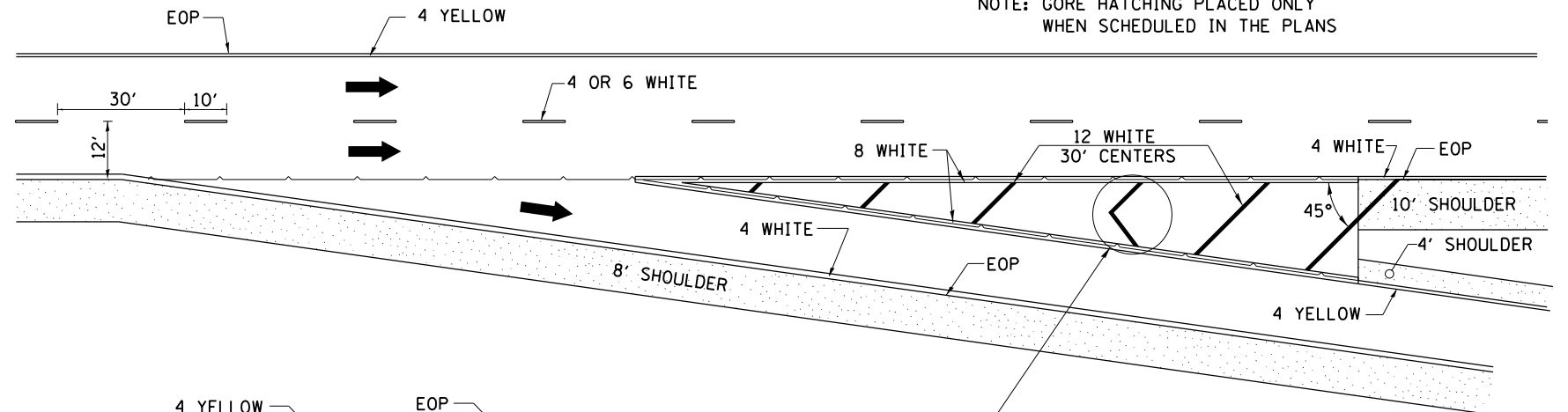
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1561
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

PAINING DETAILS

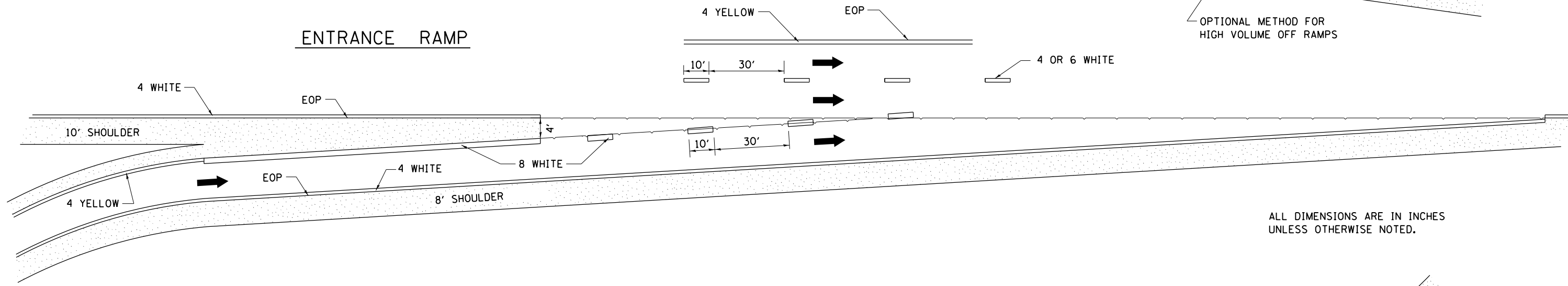
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

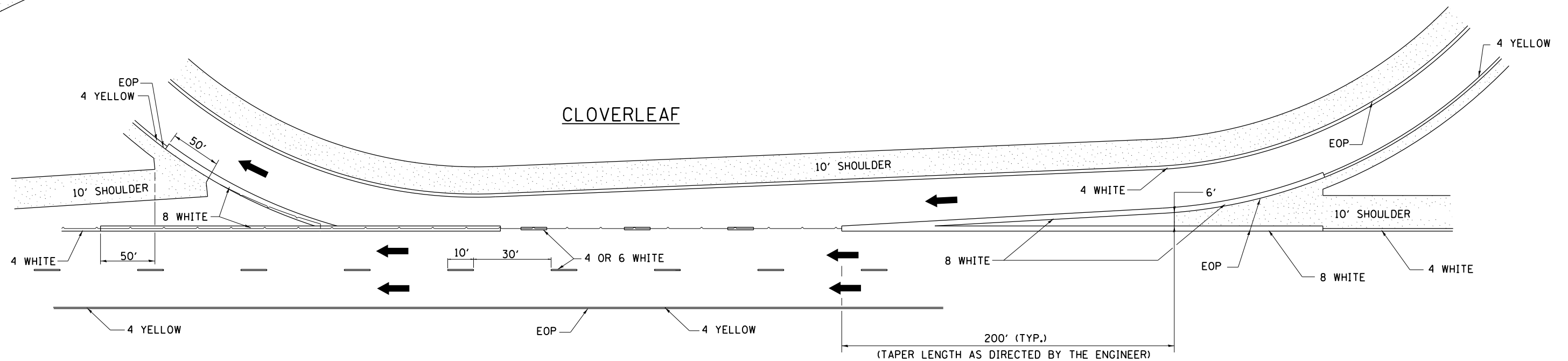


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
D2CONCD-HP5-sht-details30M.dgn	hehm01663	-	8-27-13
		DRAWN -	REVISED -
		-	10-18-11
PLOT SCALE =	CHECKED -	REVISED -	
	-	-	
PLOT DATE =	DATE -	REVISED -	
3/22/2017	3/23/2017	-	

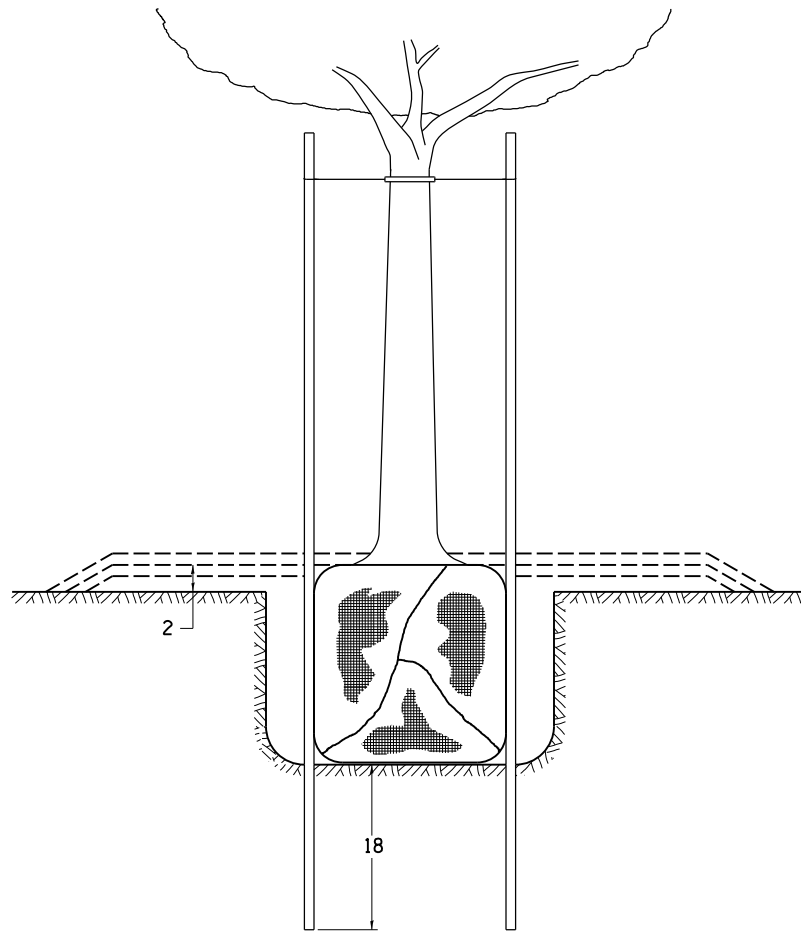
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

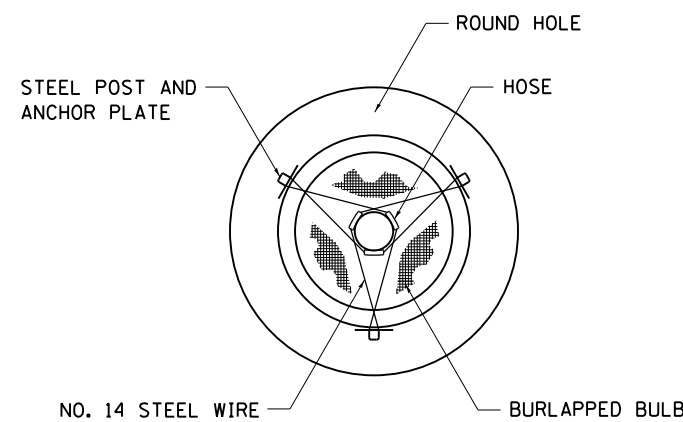
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1562
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

DETAILS OF PLANTING AND BRACING TREES

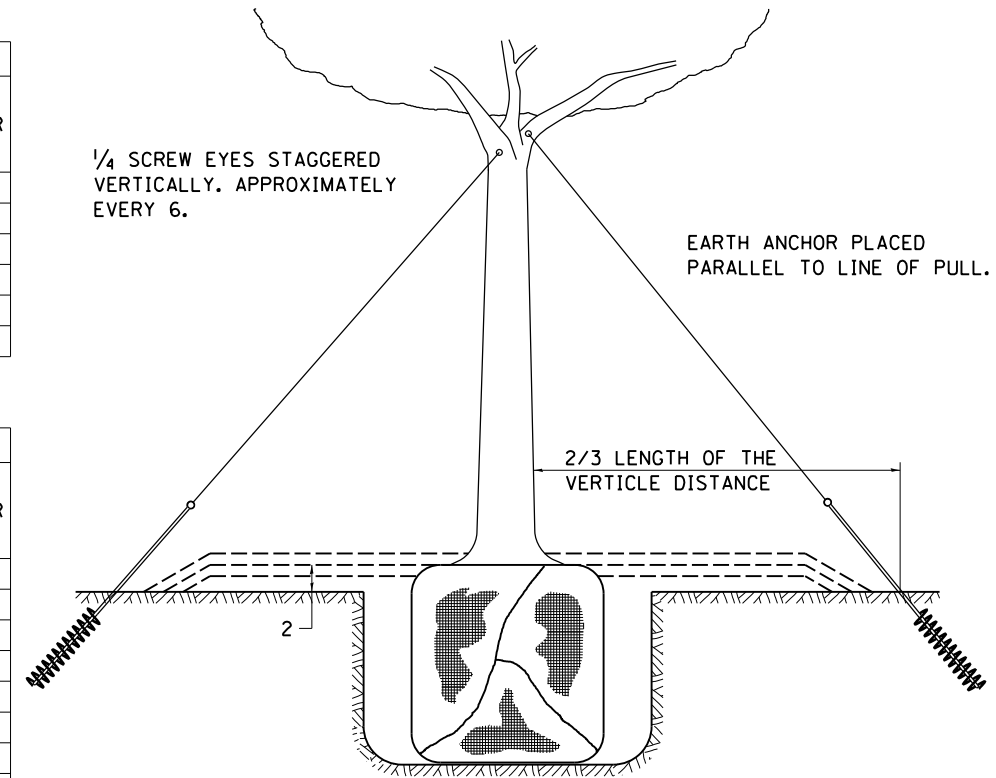
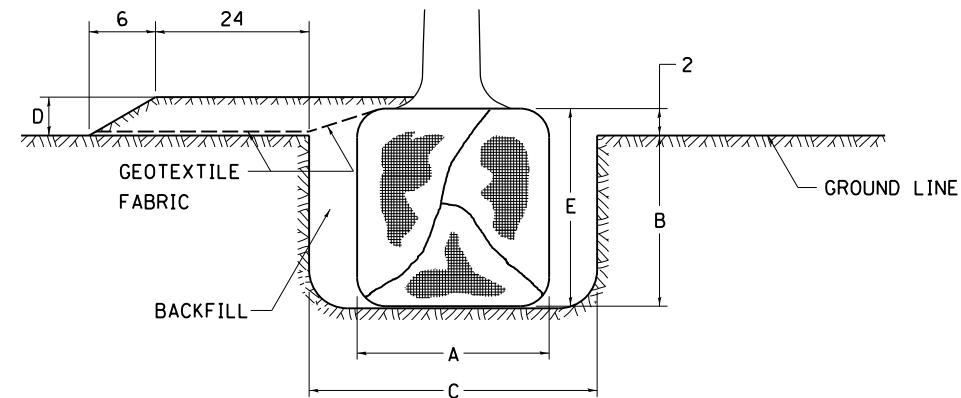


TREES SMALLER THAN 4 1/2 IN DIAMETER

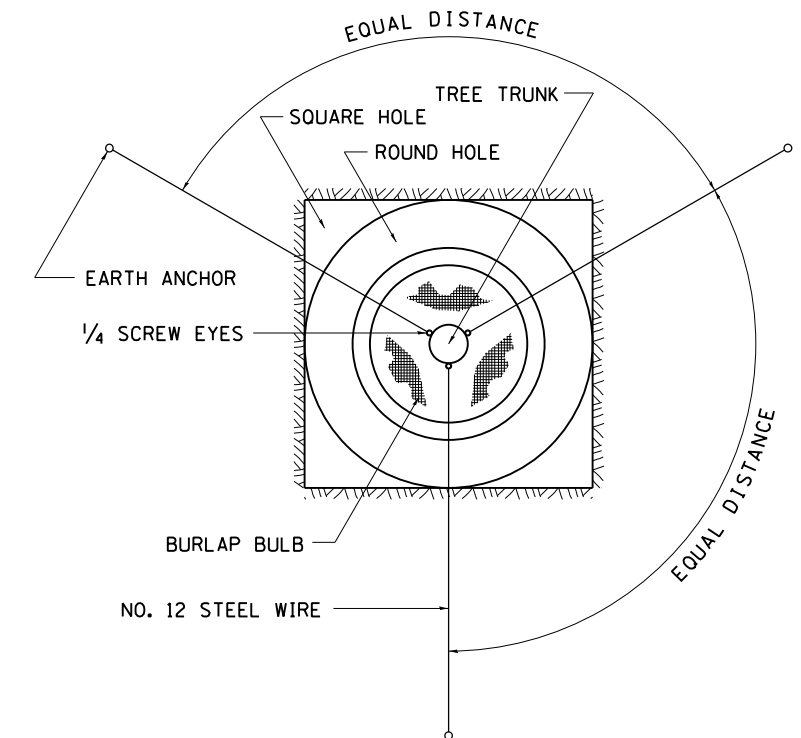


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

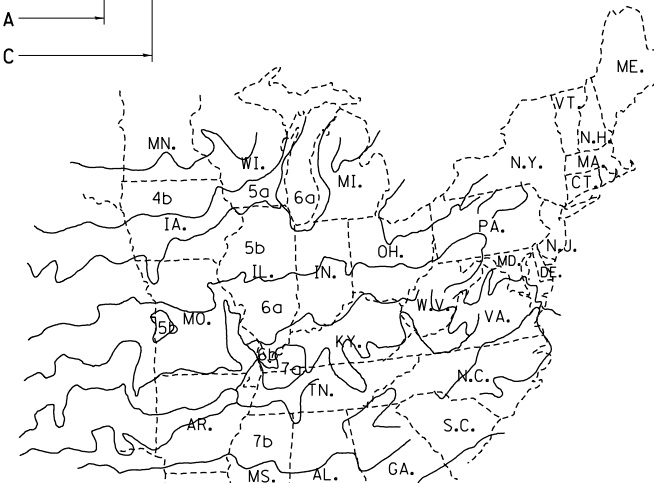
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38



TREES OVER 4 1/2 IN DIAMETER



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1563
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

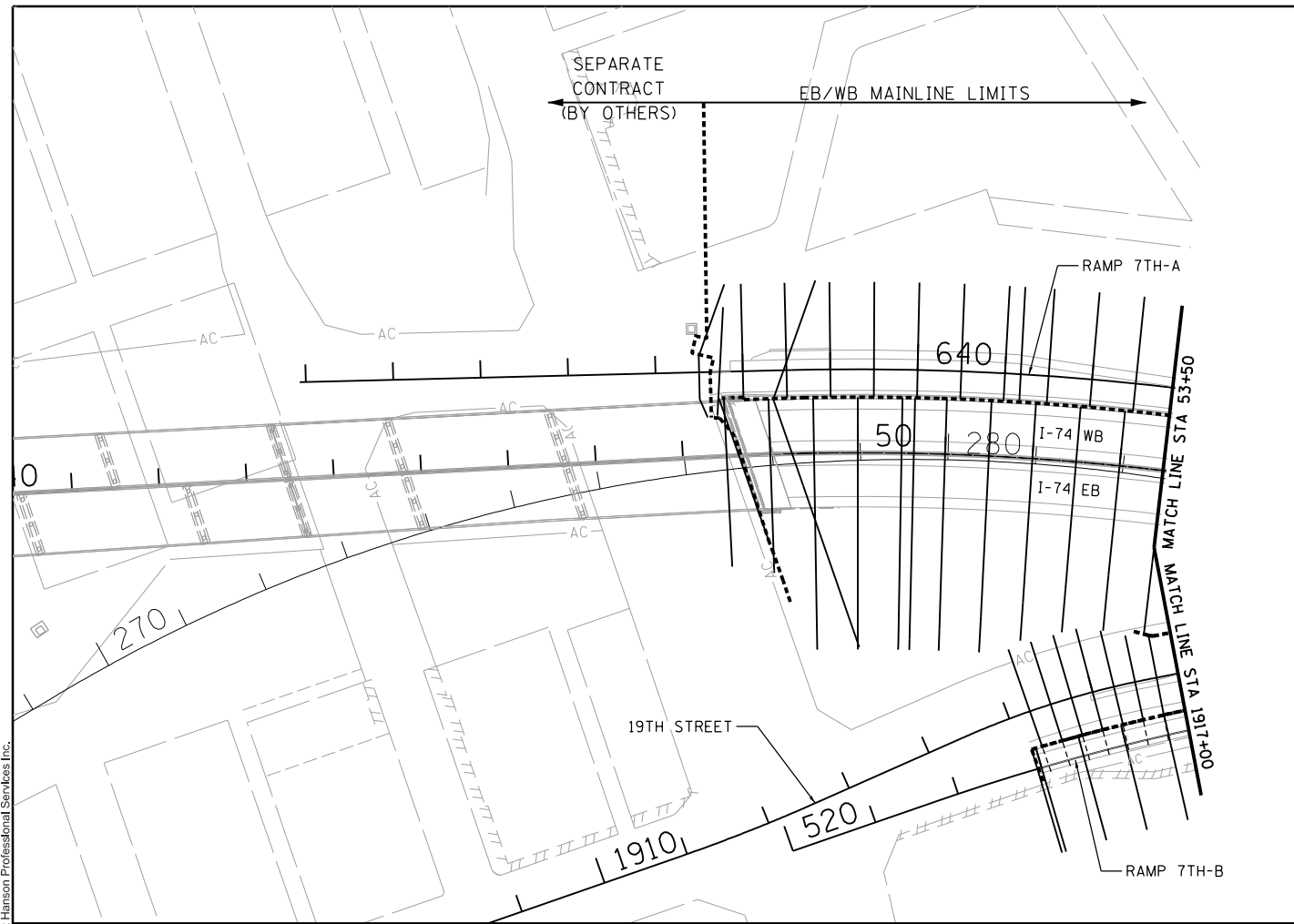
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D2CONCD-HP5-sht-details30M.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 3/23/2017	REVISED -



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SEPARATE CONTRACT (BY OTHERS) EB/WB MAINLINE LIMITS

----- MATCHLINE BOUNDARY BETWEEN CROSS SECTIONS
NOTE:
CROSS SECTIONS NOT PROVIDED ON BRIDGE STRUCTURES



LAYOUT	CBP	7/22/2011
DRAWN	CBP	5/25/2013
REVIEWED	RLT	5/5/2015

FILE NAME = D2CONCD-HP5-sht-misc02M.dgn

USER NAME = hehm01663
PLOT SCALE = 1" = 100'
PLOT DATE = 3/22/2017

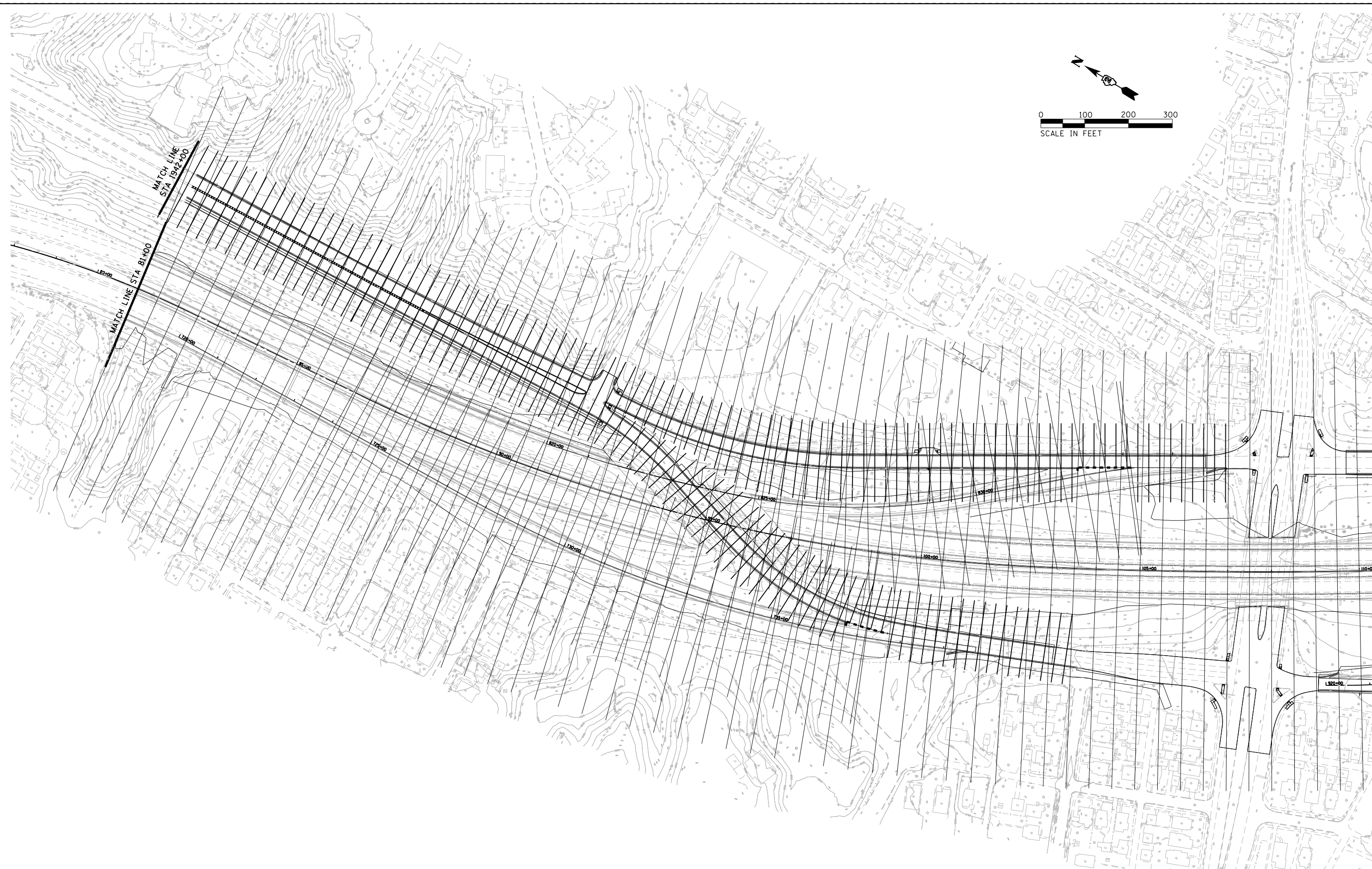
DESIGNED - CBP
DRAWN - CBP
CHECKED - RLT
DATE - 3/23/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LOCATIONS AND LIMITS
I-74 MAINLINE, RAMPS & LOCAL ROADS**
SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1564
CONTRACT NO. 64E26			MISC-01	
ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 3/22/2017	DATE - 3/23/2017	REVISED -

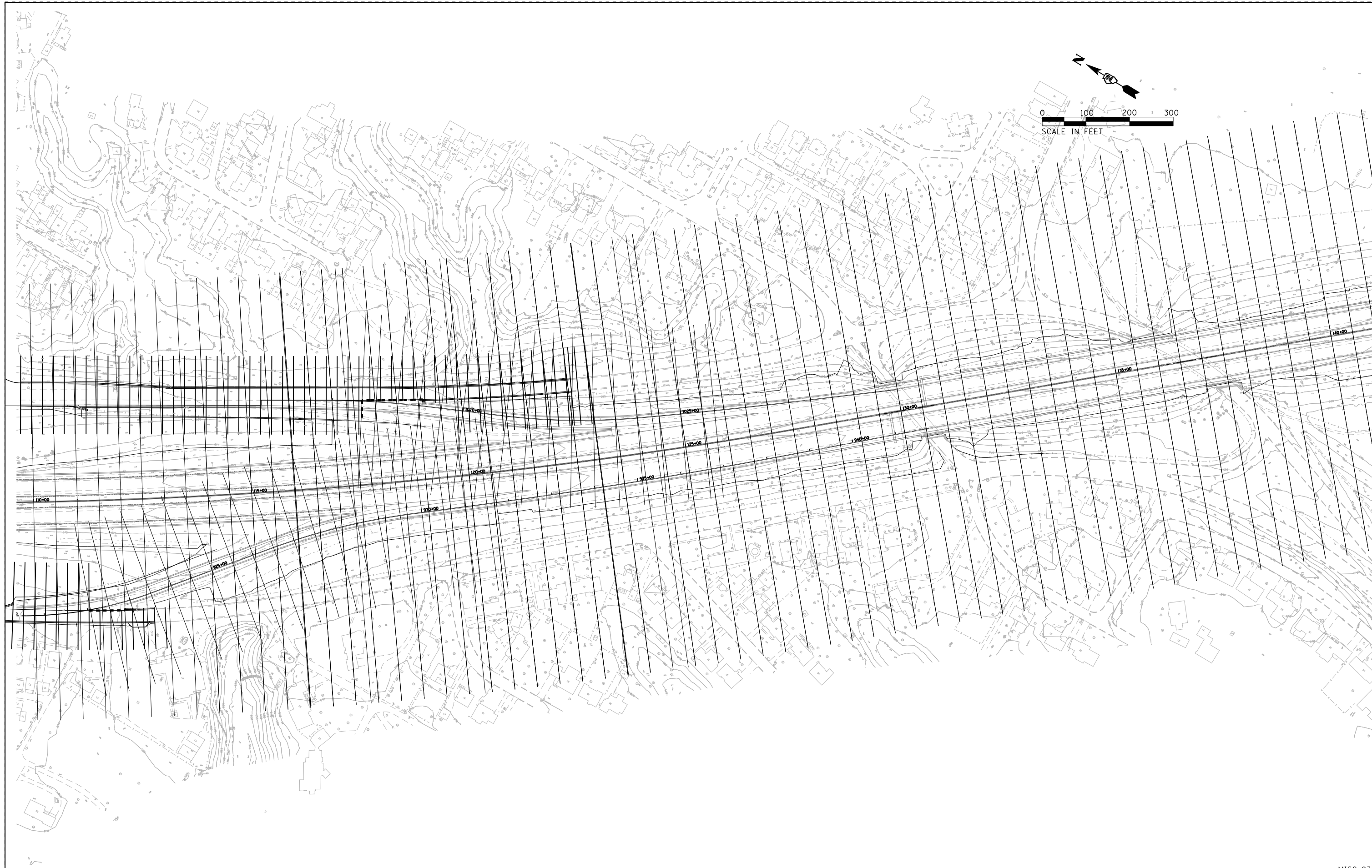
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS				
LOCATIONS AND LIMITS				
I-74 MAINLINE, RAMPS & LOCAL ROADS				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1)HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1565
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

MISC-02
 • (81-1)R-1 & 81-1)HBR, HBR-1, HBR-2)

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450



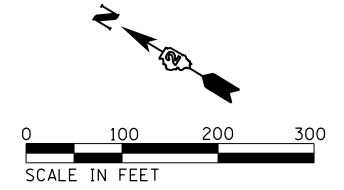
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	PLOT DATE = 3/22/2017	CHECKED -	REVISED -
		DATE - 3/23/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS LOCATIONS AND LIMITS I-74 MAINLINE, RAMPS & LOCAL ROADS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1566
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

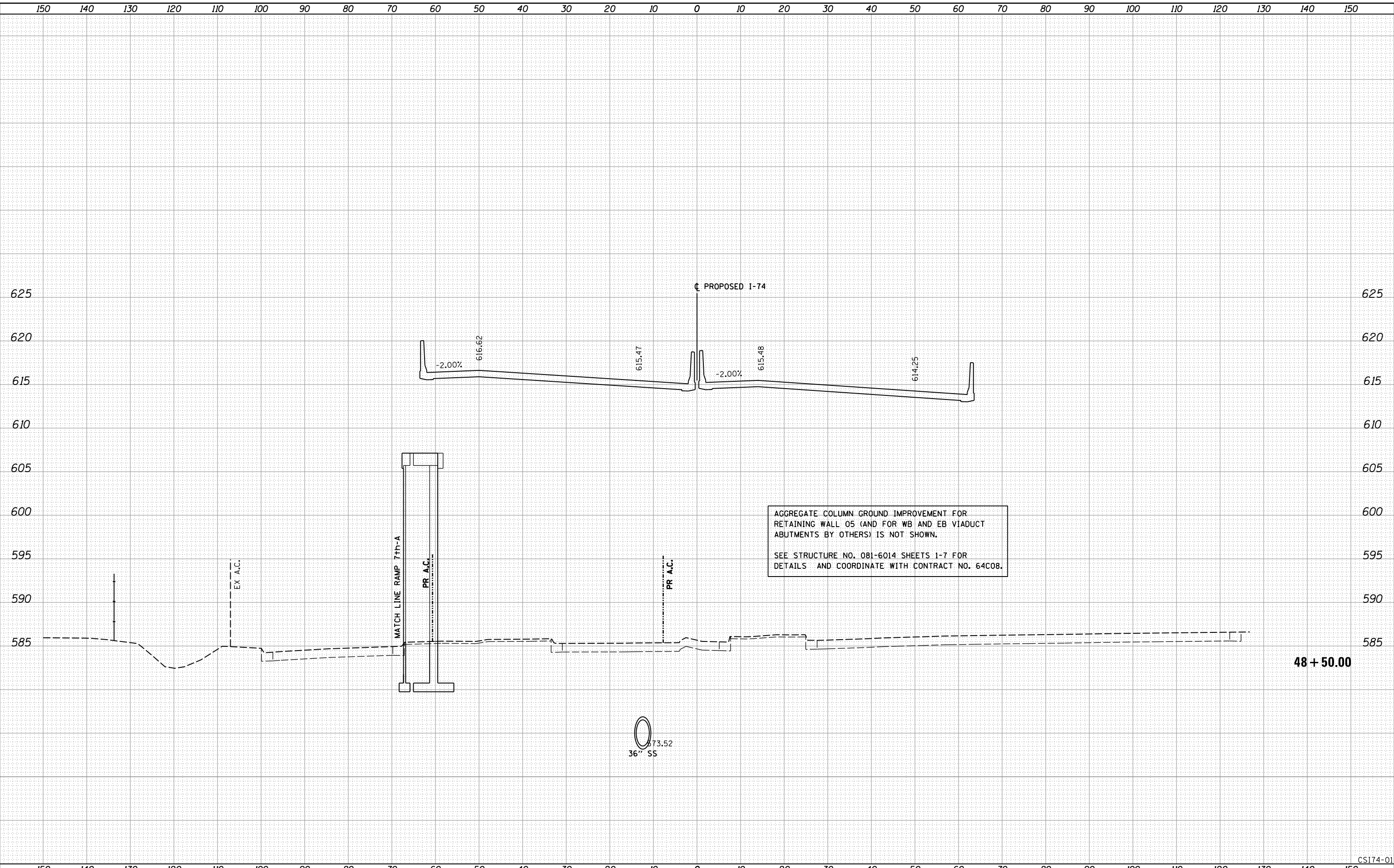
MISC-03



FILE NAME = ... \D2CONCD-ABC-sht-XSLocation03.dgn	USER NAME = jtorcj	DESIGNED - BMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS LOCATIONS AND LIMITS I-74 MAINLINE, RAMPS & LOCAL ROADS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 3/22/2017	CHECKED -	REVISED -											
		DATE - 3/23/2017	REVISED -											
											MISC-04 CONTRACT NO. 64E26 ILLINOIS FED. AID PROJECT			



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCD-HPS-sht-xssht01M.dgn	USER NAME =	hehr01663	DESIGNED -	CBP	REVISED -	
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				CHECKED -	MTH/JJW	REVISED -	
				DATE -	3/23/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-74 MAINLINE

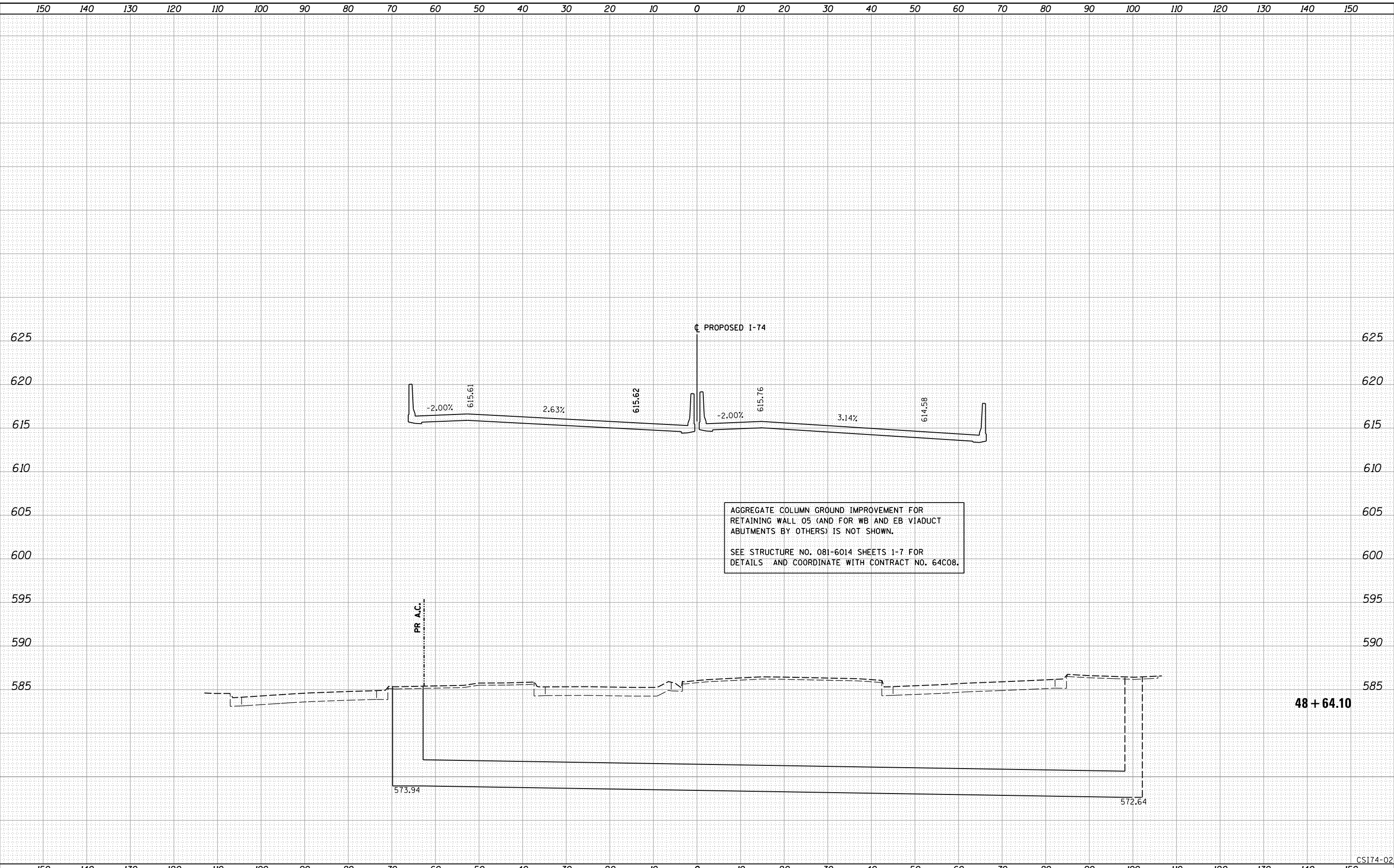
SCALE: SHEET NO. 1 OF 171 SHEETS STA. 48+50.00 TO STA. 48+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1568
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

CS174-01



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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				CHECKED -	MTH/JJW	REVISED -	
				DATE -	3/23/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-74 MAINLINE

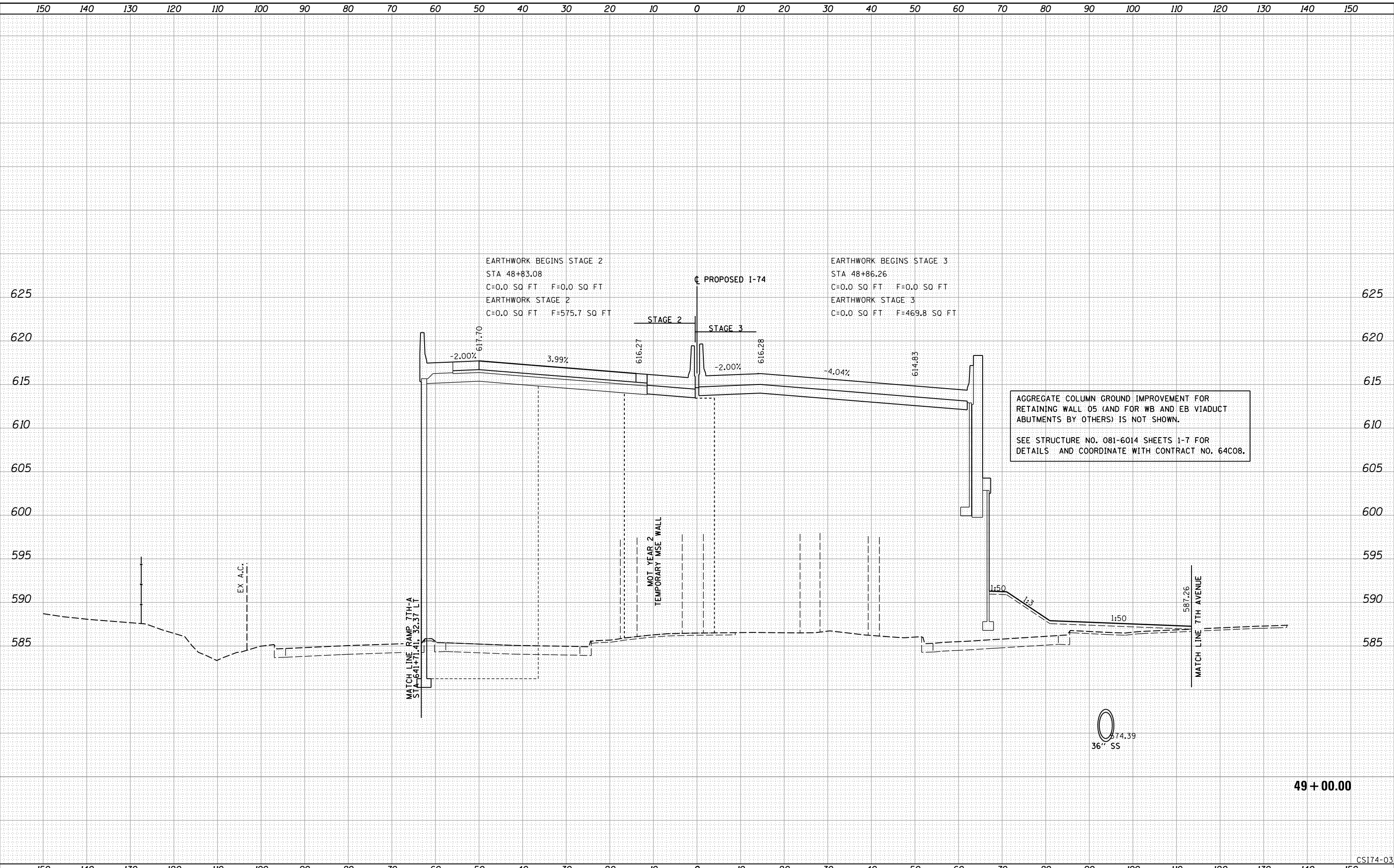
SCALE: SHEET NO. 2 OF 171 SHEETS STA. 48+64.10 TO STA. 48+64.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1569
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

CS174-02



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49 + 00.00

CSI74-03

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn	USER NAME =	hehr01663	DESIGNED -	RLT	REVISED -	
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		DATE -	3/23/2017	REVISED -			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

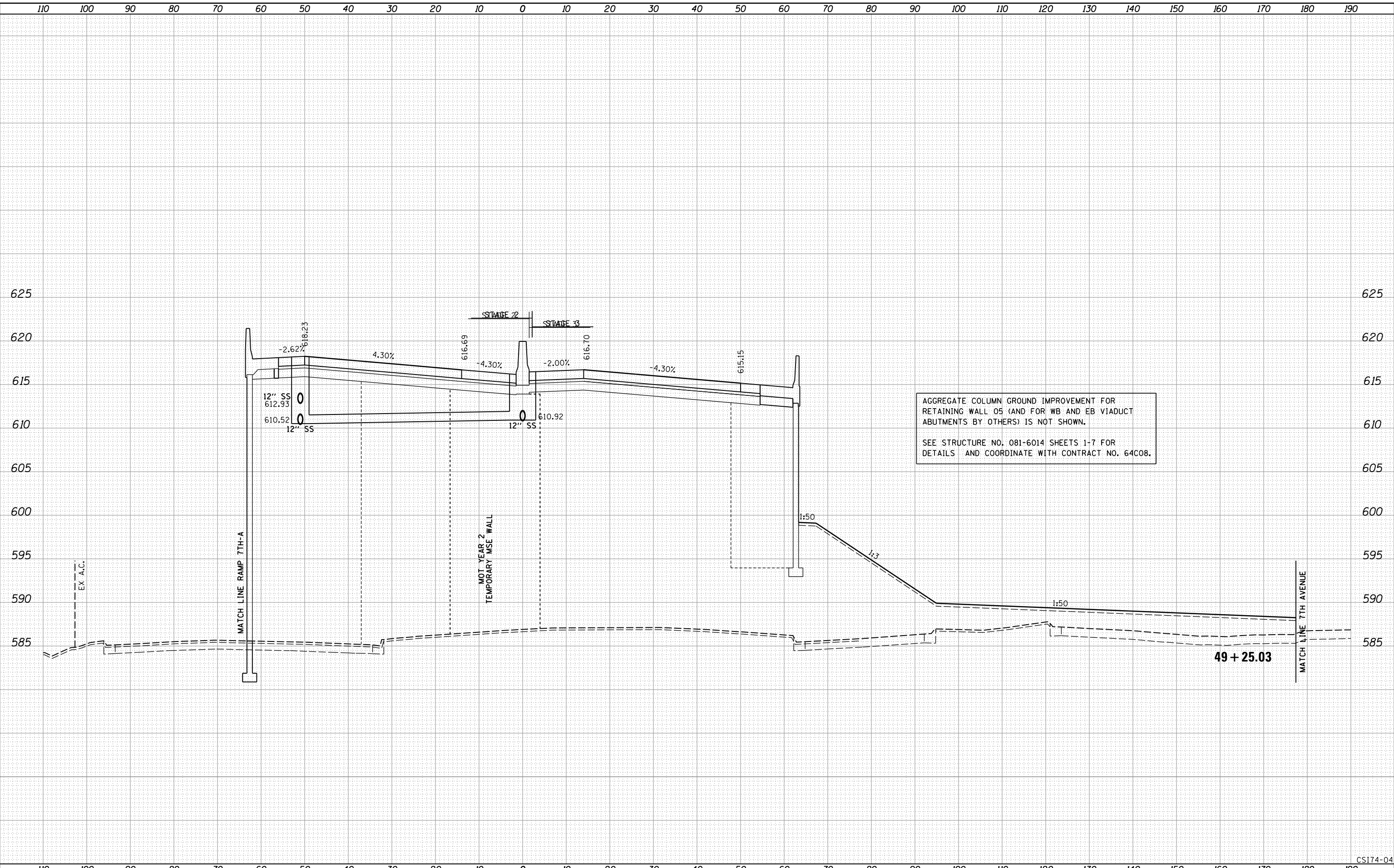
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 3 OF 171 SHEETS STA. 49+00.00 TO STA. 49+00.00

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1570
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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PLOT SCALE =		CHECKED -	MTH/JJW	REVISIED -		REVISIED -	
PLOT DATE =	3/22/2017	DATE -	3/23/2017	REVISIED -		REVISIED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 4 OF 171 SHEETS STA. 49+25.03 TO STA. 49+25.03

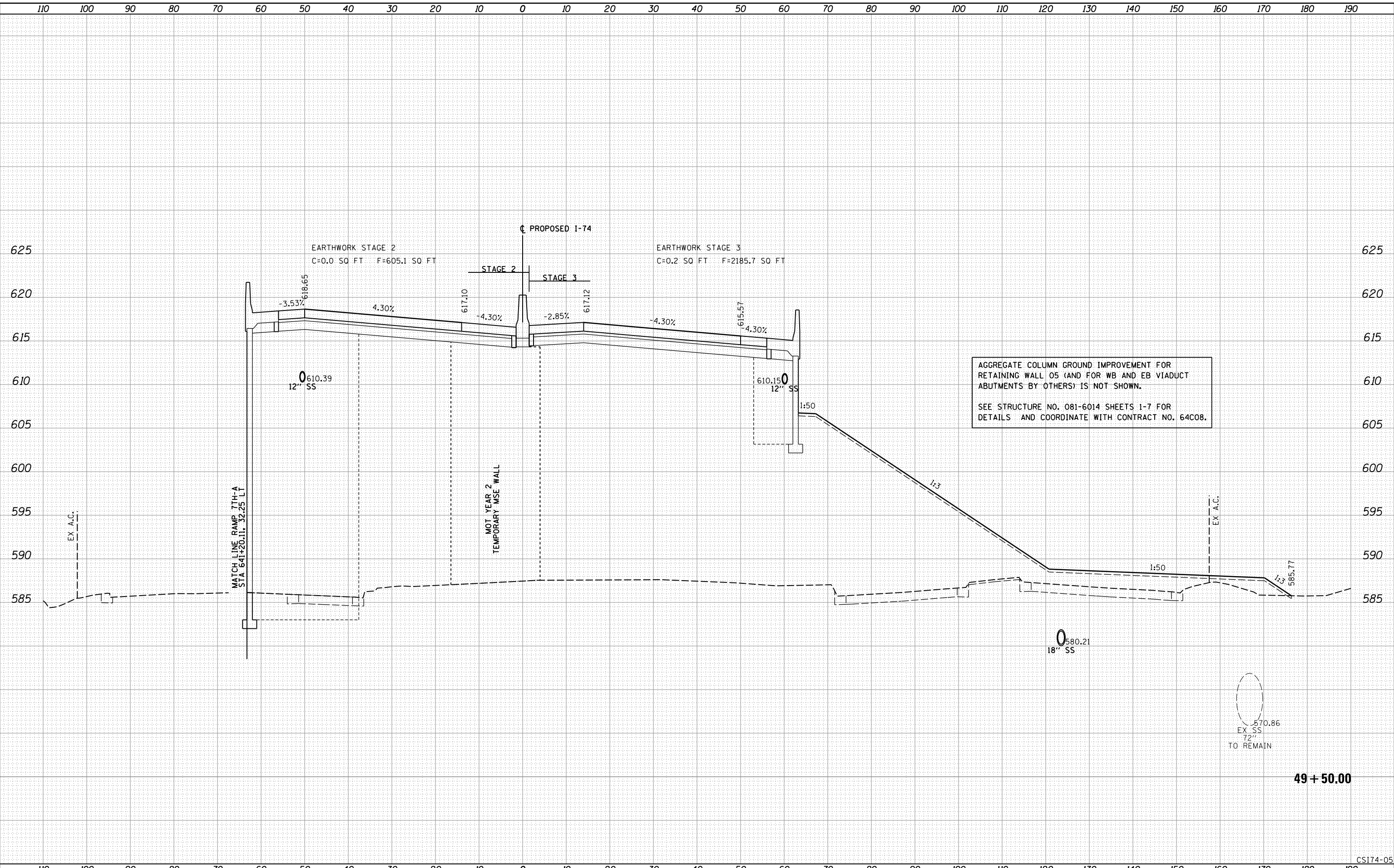
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1571
			CONTRACT NO. 64E26	

ILLINOIS FED. AID PROJECT

CS174-04



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49 + 50.00

CSI74-05

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME = D2CONCO-HPS-sht-xssht01M.dgn
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DESIGNED	- RLT	REVISED	-
DRAWN	- RLT	REVISED	-
CHECKED	- MTH/JJW	REVISED	-
DATE	- 3/23/2017	REVISED	-

PLOT SCALE =	DATE = 3/23/2017
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

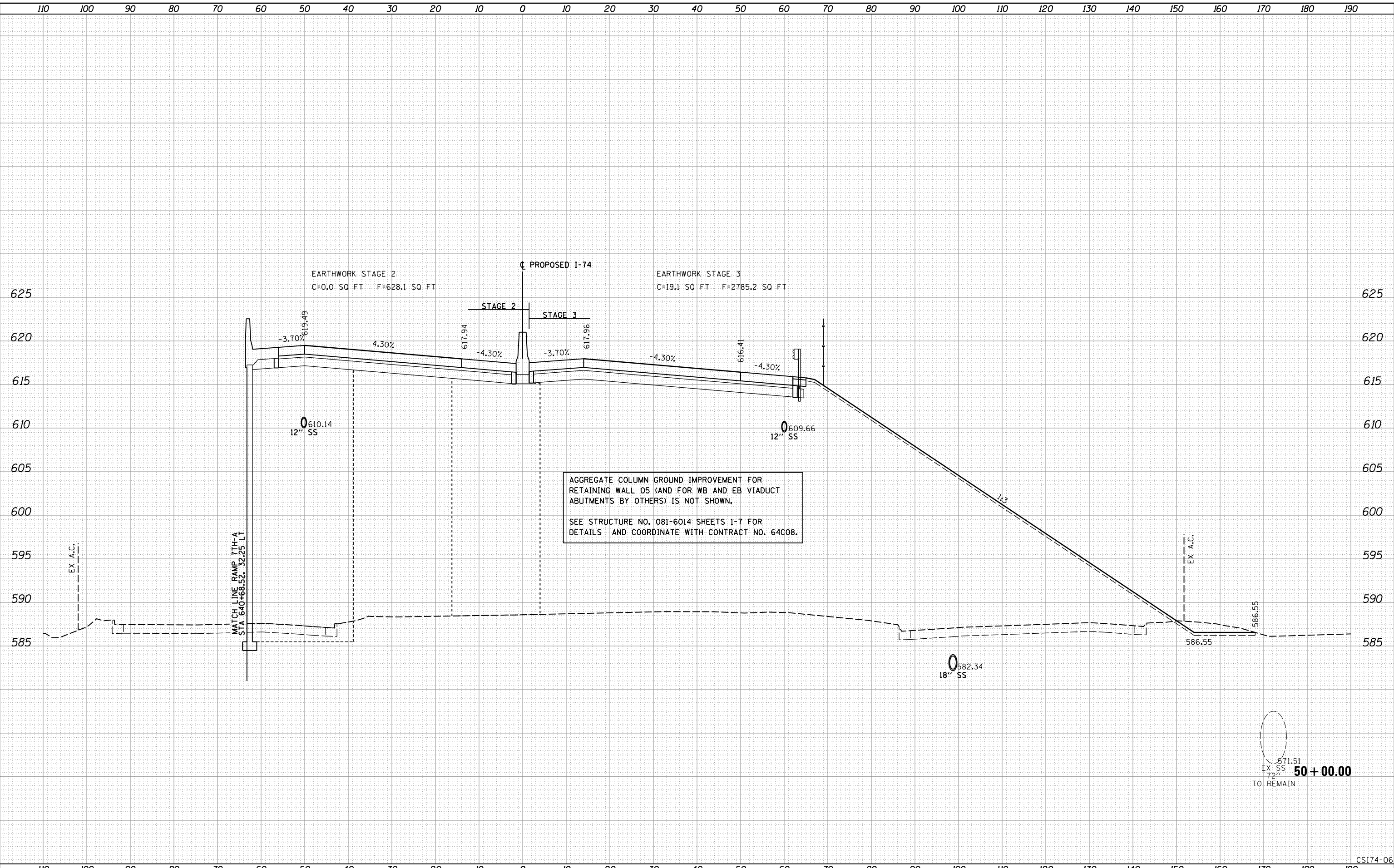
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 5 OF 171 SHEETS STA. 49+50.00 TO STA. 49+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1572
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCD-HPS-sht-xssht01M.dgn
USER NAME =	hehr01663
DESIGNED -	RLT
DRAWN -	RLT
PLOT SCALE =	
CHECKED -	MTH/JJW
PLOT DATE =	3/22/2017
DATE -	3/23/2017
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 6 OF 171 SHEETS STA. 50+00.00 TO STA. 50+00.00

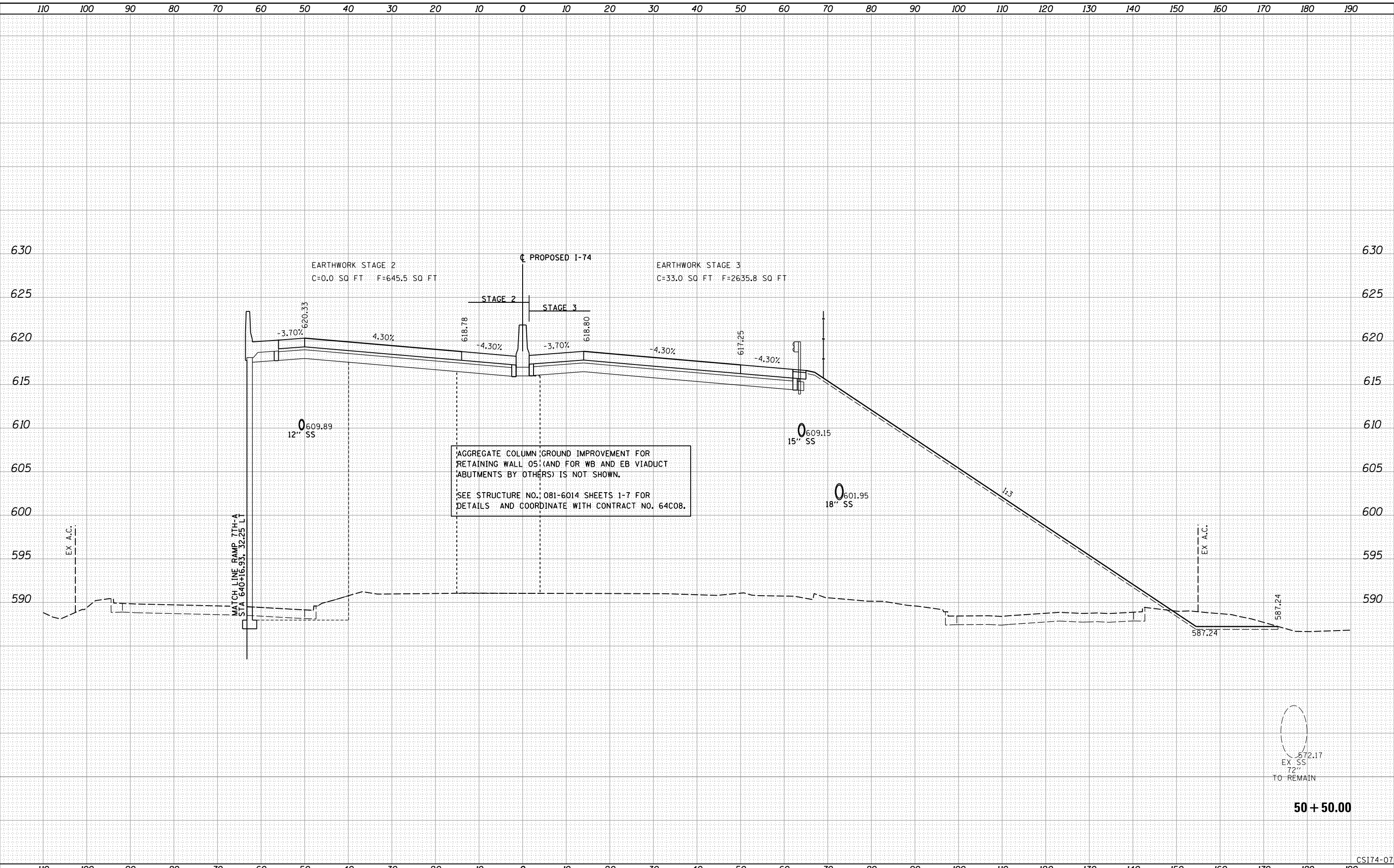
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1573
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

571.51
EX SS
72"
TO REMAIN
50 + 00.00

CS174-06



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572.17
EX SS
72"
TO REMAIN

50 + 50.00

CSI74-07

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCD-HPS-sht-xssht01M.dgn
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USER NAME =	hehrn01663
DESIGNED -	RLT
DRAWN -	RLT
CHECKED -	MTH/JJW
DATE -	3/23/2017

REVISED -	
REVISED -	
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REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

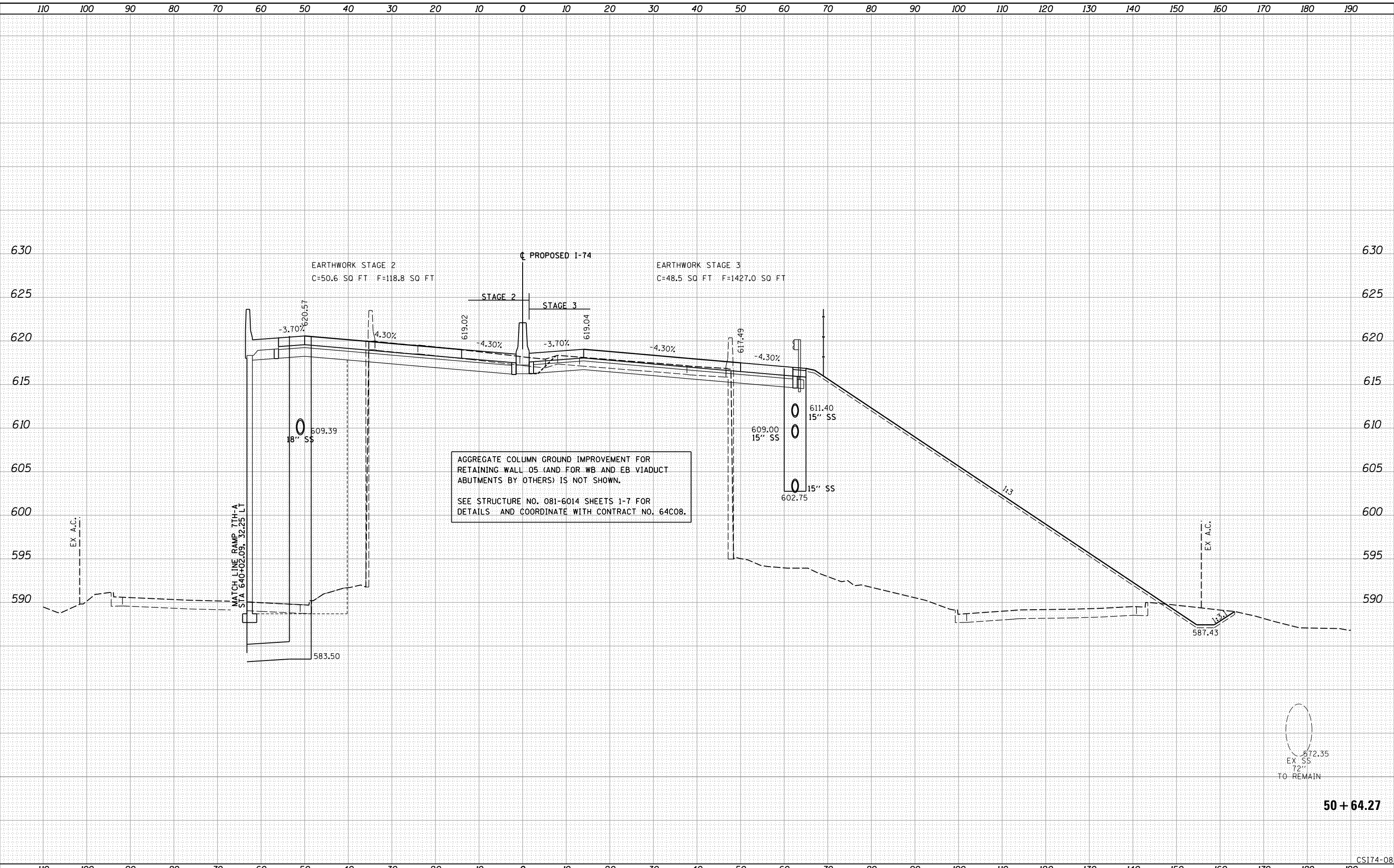
CROSS SECTIONS
I-74 MAINLINE

SCALE: SHEET NO. 7 OF 171 SHEETS STA. 50+50.00 TO STA. 50+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1574
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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50 + 64.27

CS174-08

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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				CHECKED -	MTH/JJW	REVISED -	
				DATE -	3/23/2017	REVISED -	

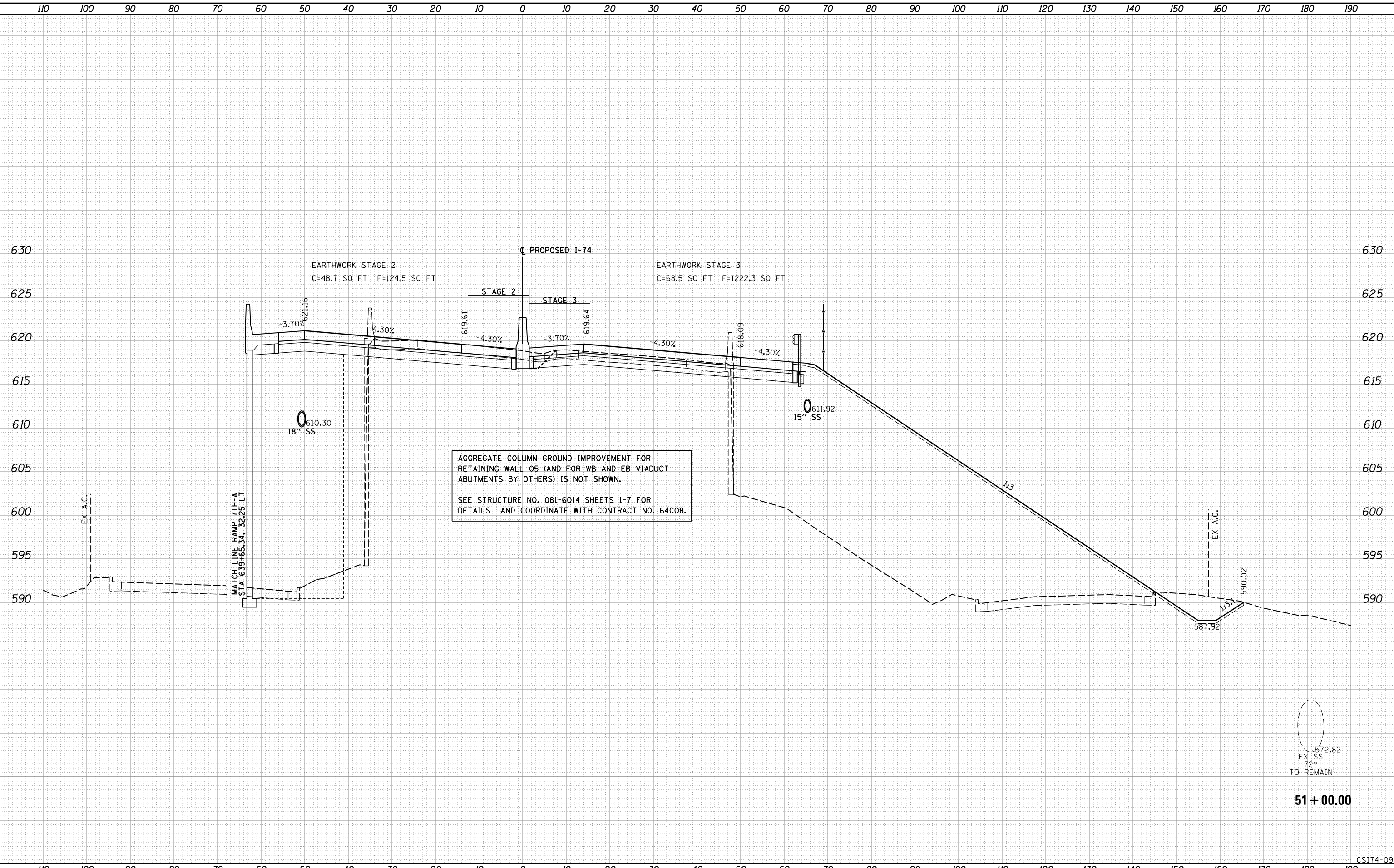
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS I-74 MAINLINE			
SCALE:	SHEET NO. 8 OF 171 SHEETS	STA. 50+64.27	TO STA. 50+64.27

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1575
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME = D2CONCD-HPS-sht-xssht01M.dgn
 USER NAME = hehr01663

DESIGNED	-	RLT	REVISED	-
DRAWN	-	RLT	REVISED	-
CHECKED	-	MTH/JJW	REVISED	-
DATE	-	3/23/2017	REVISED	-

PLOT SCALE =
 PLOT DATE = 3/22/2017

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 I-74 MAINLINE**

SCALE: SHEET NO. 9 OF 171 SHEETS STA. 51+00.00 TO STA. 51+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1576
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

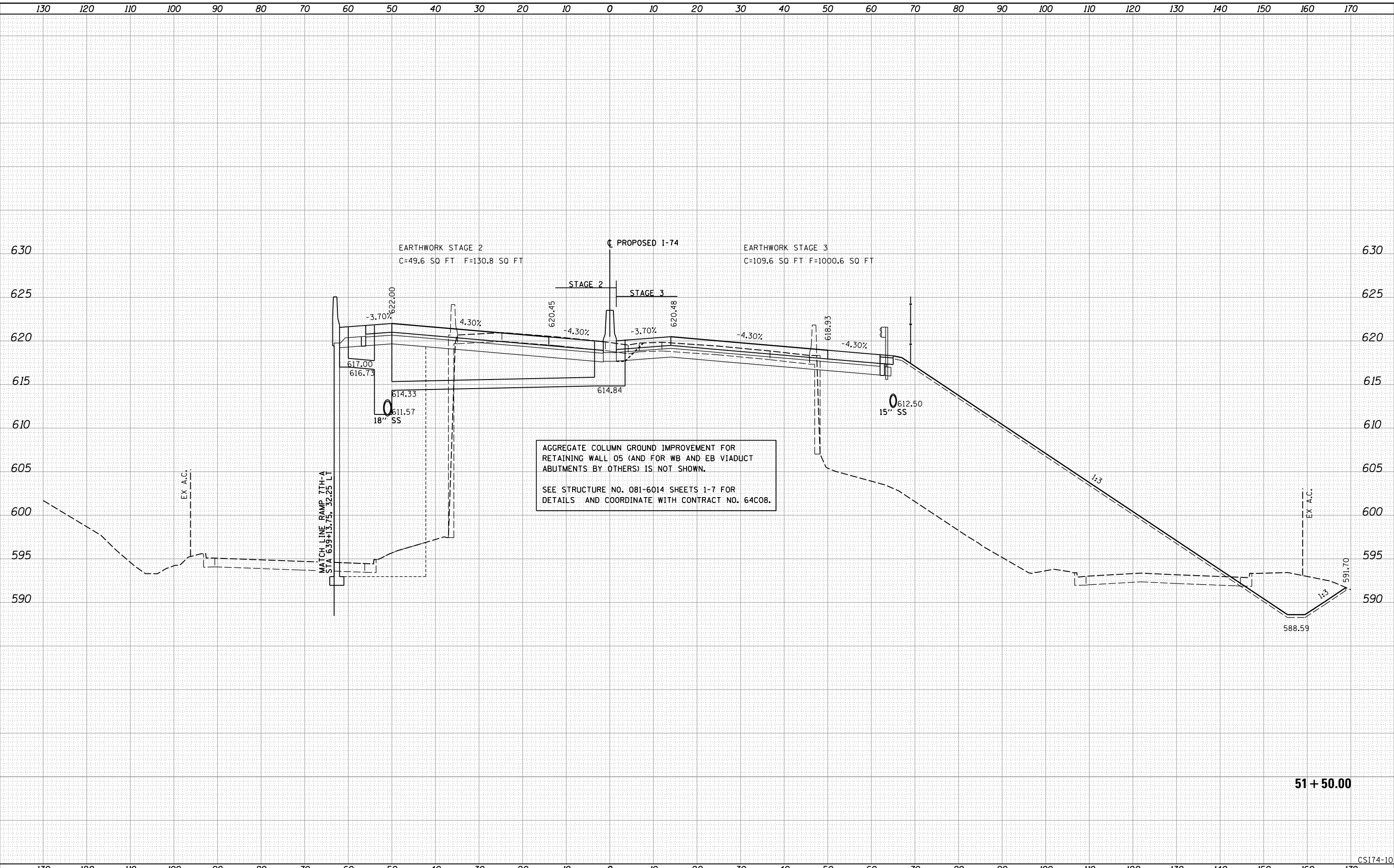
572.82
 EX. SS
 72"
 TO REMAIN

51 + 00.00

CSI74-09



© Copyright Hanson Professional Services Inc.



51 + 50.00

CS174-10

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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				DATE -	3/23/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

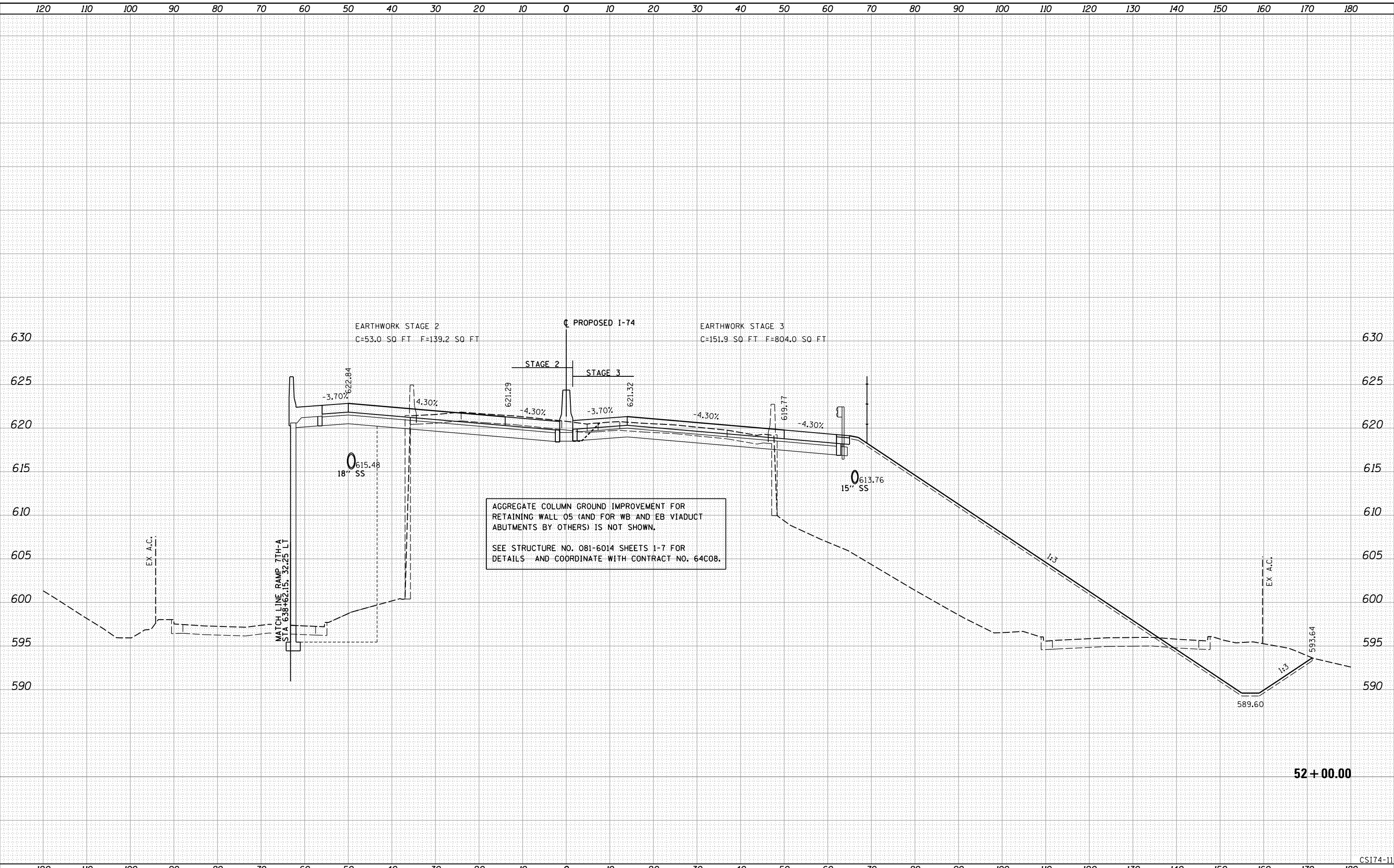
CROSS SECTIONS
I-74 MAINLINE

SCALE: SHEET NO. 10 OF 171 SHEETS STA. 51+50.00 TO STA. 51+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1577
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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52 + 00.00

CSI74-11

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME = D2CONCO-HPS-sht-xssht01M.dgn
 USER NAME = hehm01663

DESIGNED	-	RLT	REVISED	-
DRAWN	-	RLT	REVISED	-
CHECKED	-	MTH/JJW	REVISED	-
DATE	-	3/23/2017	REVISED	-

PLOT SCALE =	
PLOT DATE =	3/22/2017

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

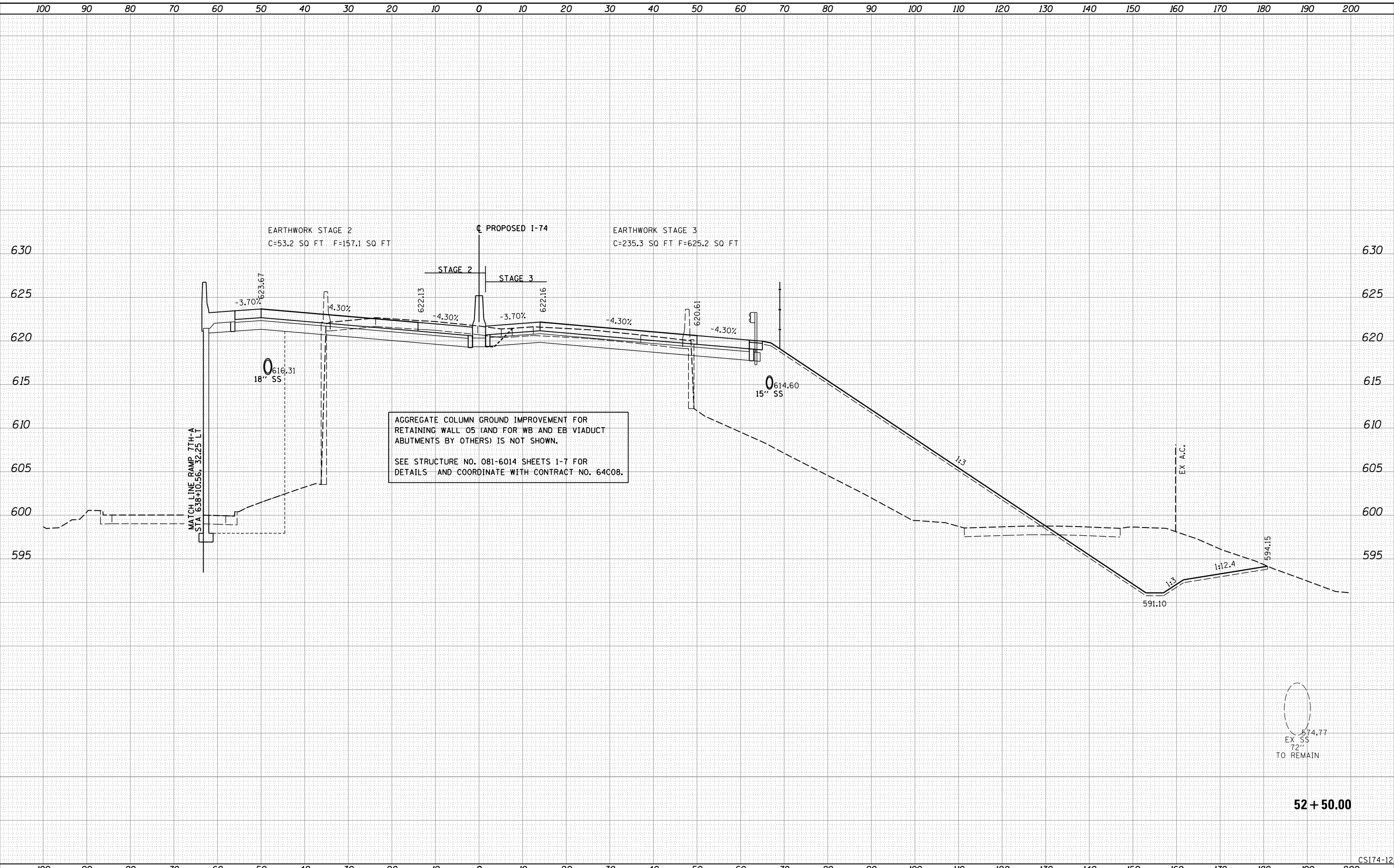
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 11 OF 171 SHEETS STA. 52+00.00 TO STA. 52+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1578
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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AGGREGATE COLUMN GROUND IMPROVEMENT FOR RETAINING WALL 05 (AND FOR WB AND EB VIADUCT ABUTMENTS BY OTHERS) IS NOT SHOWN.
SEE STRUCTURE NO. 081-6014 SHEETS 1-7 FOR DETAILS AND COORDINATE WITH CONTRACT NO. 64C08.

674.77
EX SS
72"
TO REMAIN

52 + 50.00

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn
USER NAME =	hehr01663
DESIGNED -	RLT
DRAWN -	RLT
PLOT SCALE =	
CHECKED -	MTH/JJW
PLOT DATE =	3/22/2017
DATE -	3/23/2017
REVISIED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-74 MAINLINE

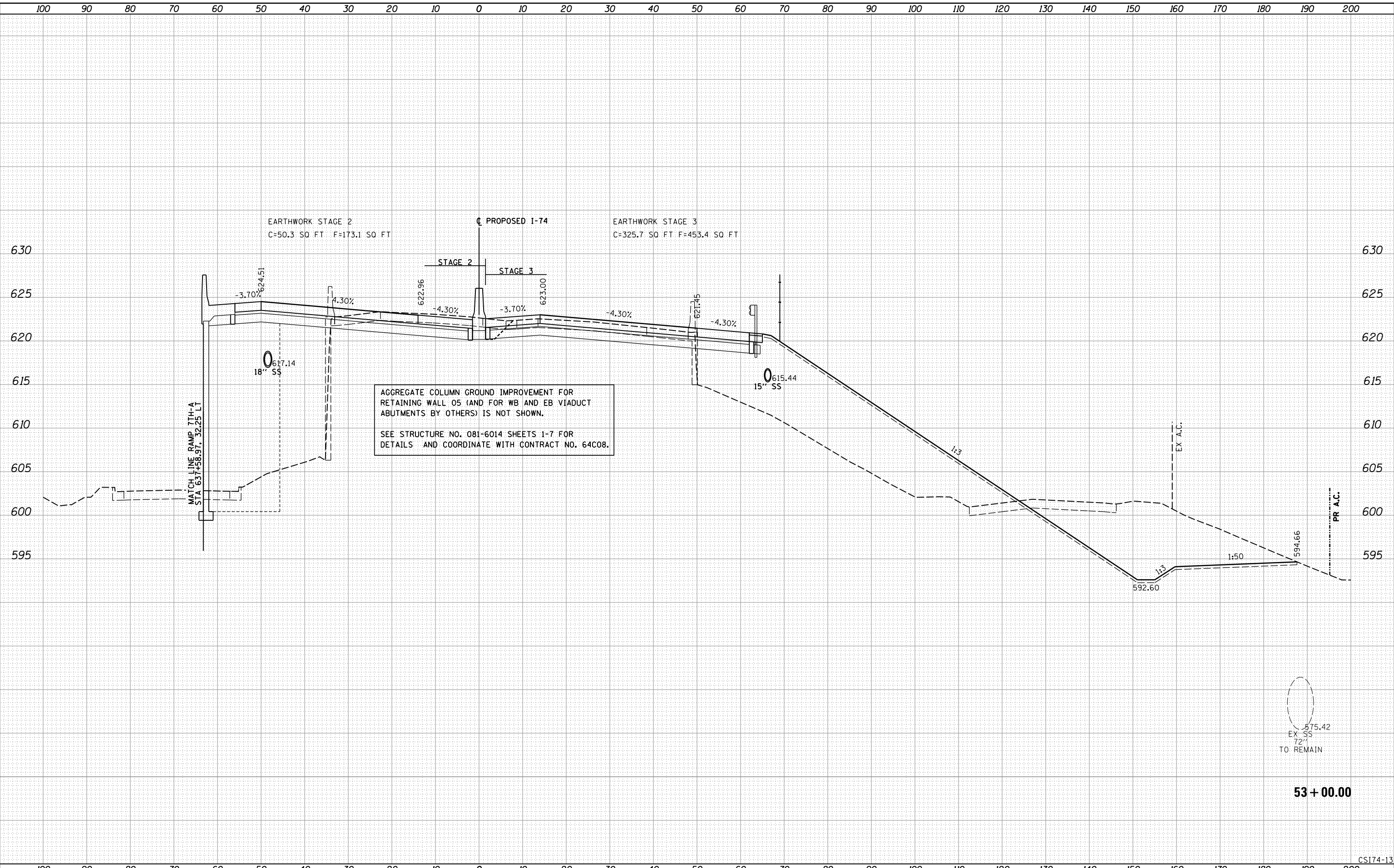
SCALE: SHEET NO. 12 OF 171 SHEETS STA. 52+50.00 TO STA. 52+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1579
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

CS174-12



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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				DRAWN -	RLT	REVISED -	
				CHECKED -	MTH/JJW	REVISED -	
				DATE -	3/23/2017	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 13 OF 171 SHEETS STA. 53+00.00 TO STA. 53+00.00

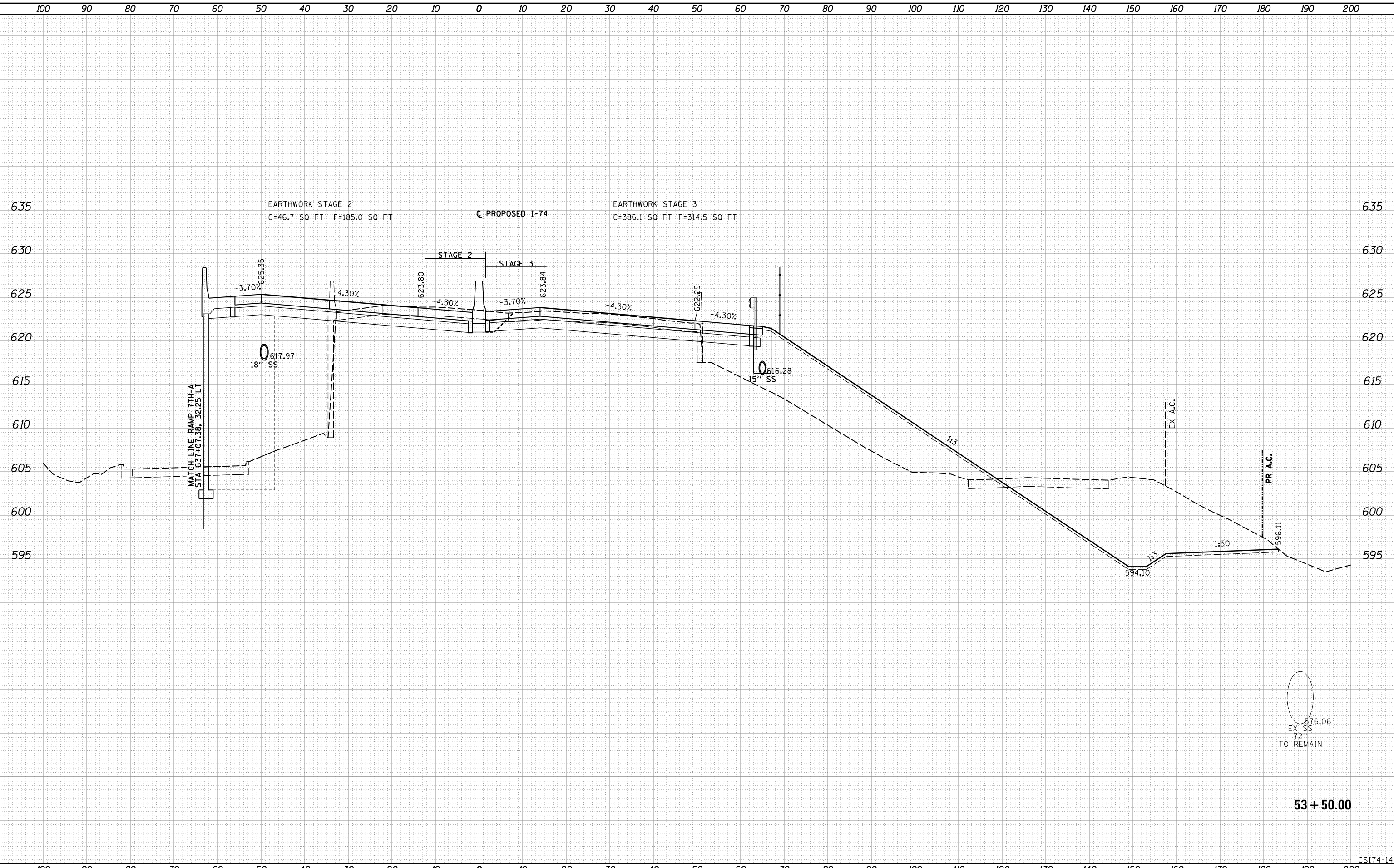
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1580
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

53 + 00.00

CS174-13



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53 + 50.00

CS174-14

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn
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USER NAME =	hehr01663
DESIGNED -	RLT
DRAWN -	RLT
CHECKED -	MTH/JJW
DATE -	3/23/2017

REVISED -	
REVISED -	
REVISED -	
REVISED -	

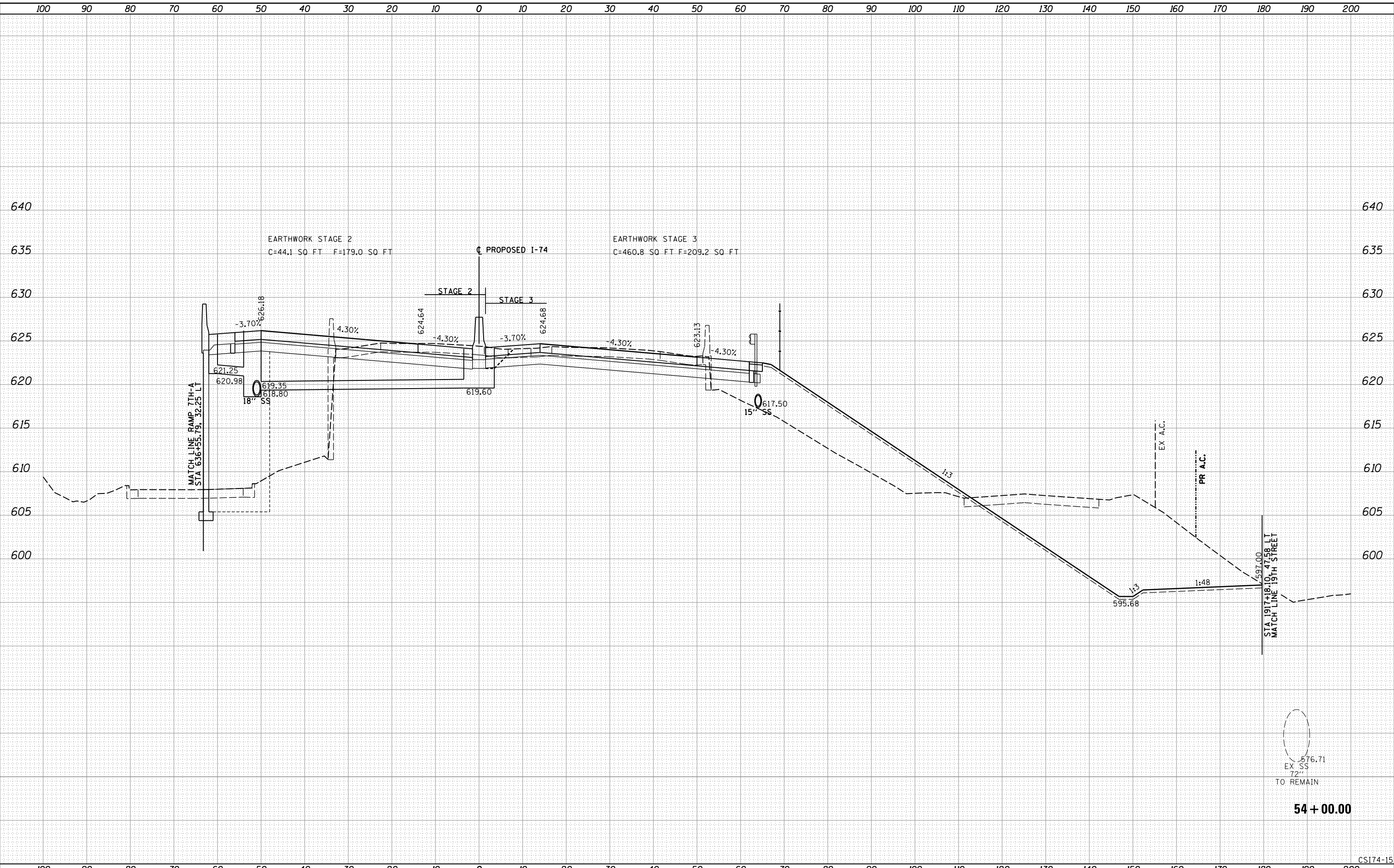
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
I-74 MAINLINE	
SCALE:	SHEET NO. 14 OF 171 SHEETS STA. 53+50.00 TO STA. 53+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1581
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn
USER NAME =	hehrn01663
DESIGNED -	RLT
DRAWN -	RLT
PLOT SCALE =	
CHECKED -	MTH/JJW
DATE -	3/23/2017

DESIGNED -	RLT	REVISED -	
DRAWN -	RLT	REVISED -	
CHECKED -	MTH/JJW	REVISED -	
DATE -	3/23/2017	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 15 OF 171 SHEETS STA. 54+00.00 TO STA. 54+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1582
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

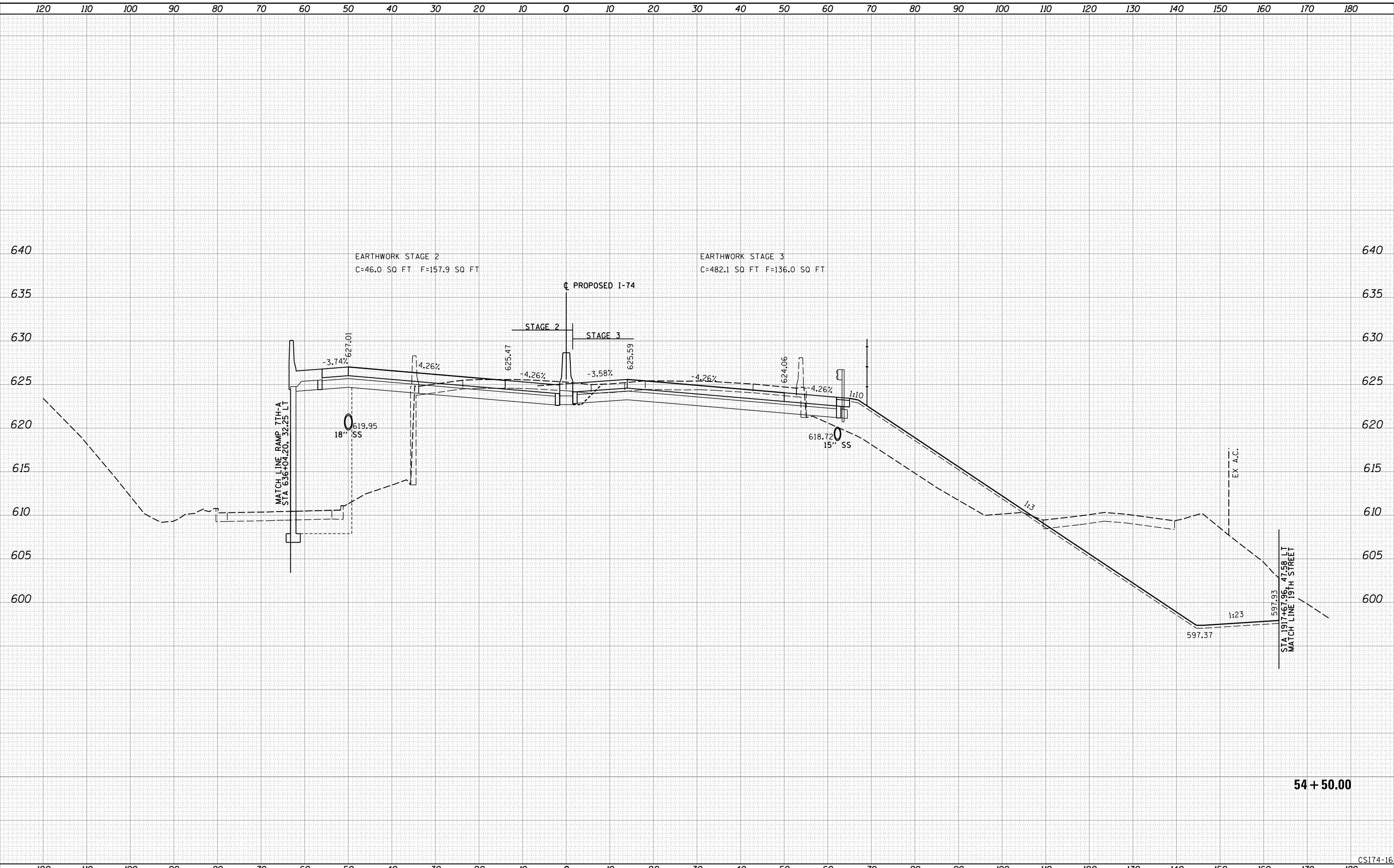
576.71
EX. SS
72"
TO REMAIN

54 + 00.00

CS174-15



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54 + 50.00

CS174-16

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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		PLOT DATE =	3/22/2017				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

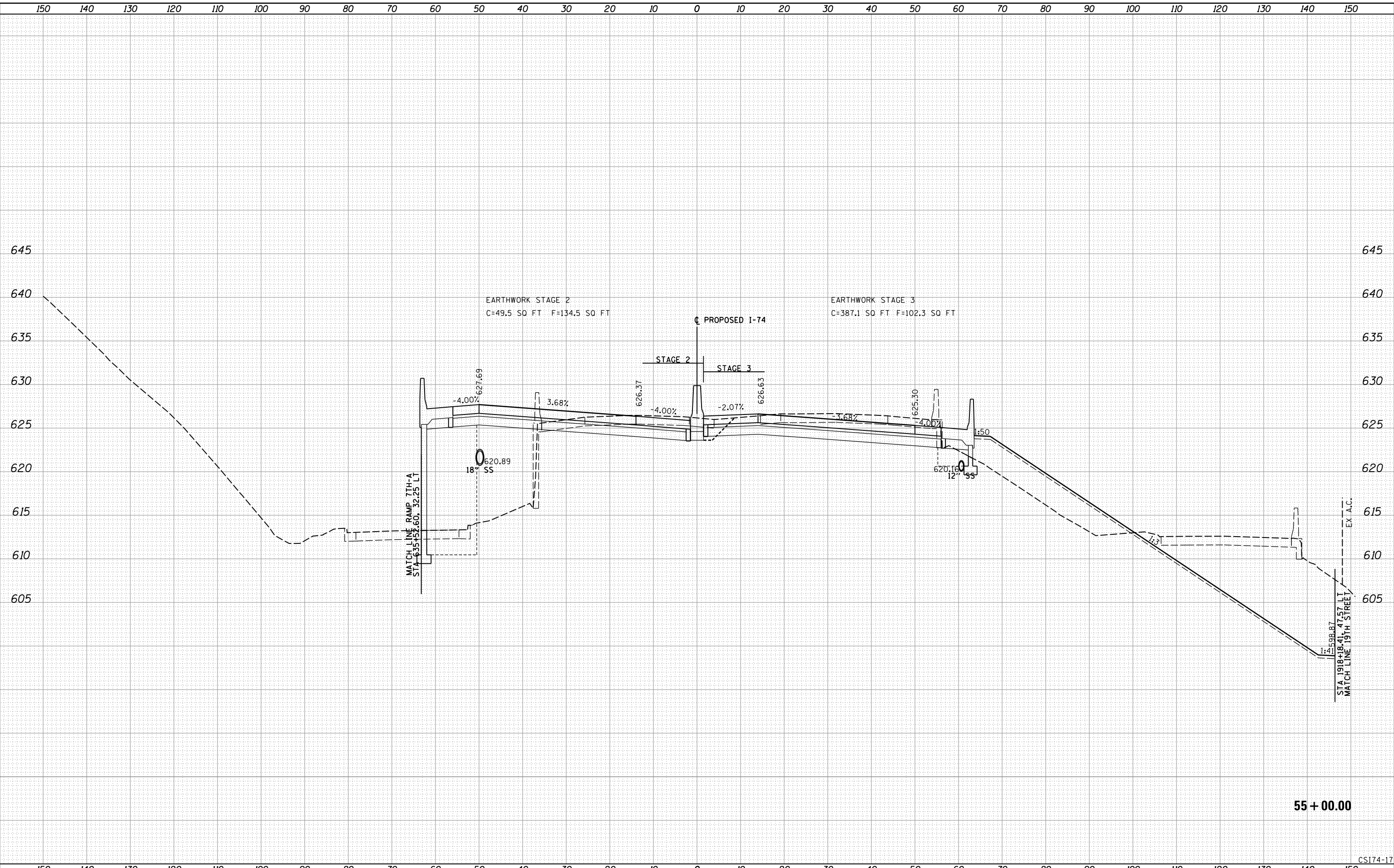
CROSS SECTIONS
I-74 MAINLINE

SCALE: SHEET NO. 16 OF 171 SHEETS STA. 54+50.00 TO STA. 54+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1583
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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55 + 00.00

CS174-17

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn	USER NAME =	hehrn01663	DESIGNED -	RLT	REVISED -	
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		PLOT DATE =	3/22/2017	DATE -	3/23/2017	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

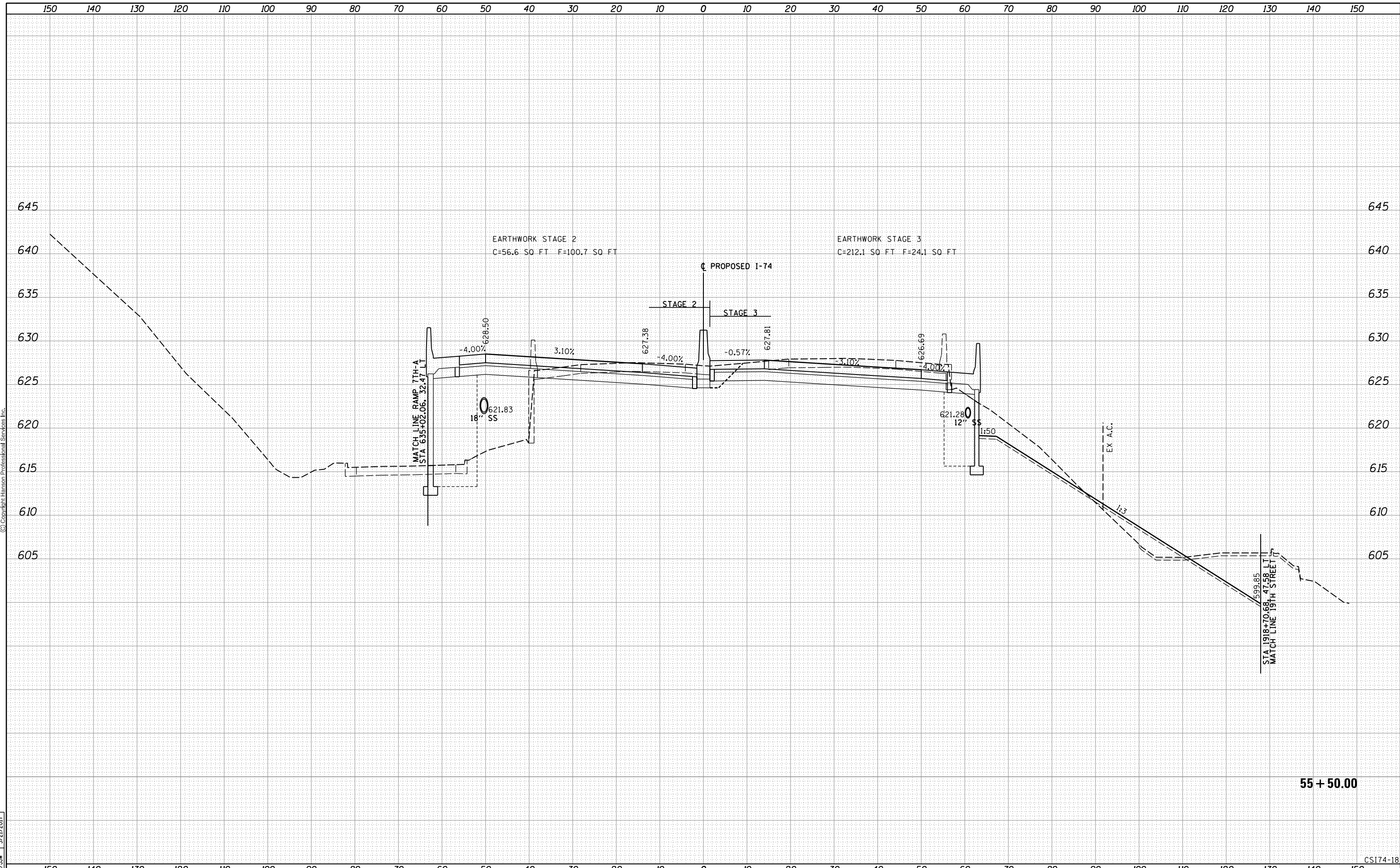
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 17 OF 171 SHEETS STA. 55+00.00 TO STA. 55+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1584
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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55 + 50.00

CS174-18

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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				DATE -	3/23/2017	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

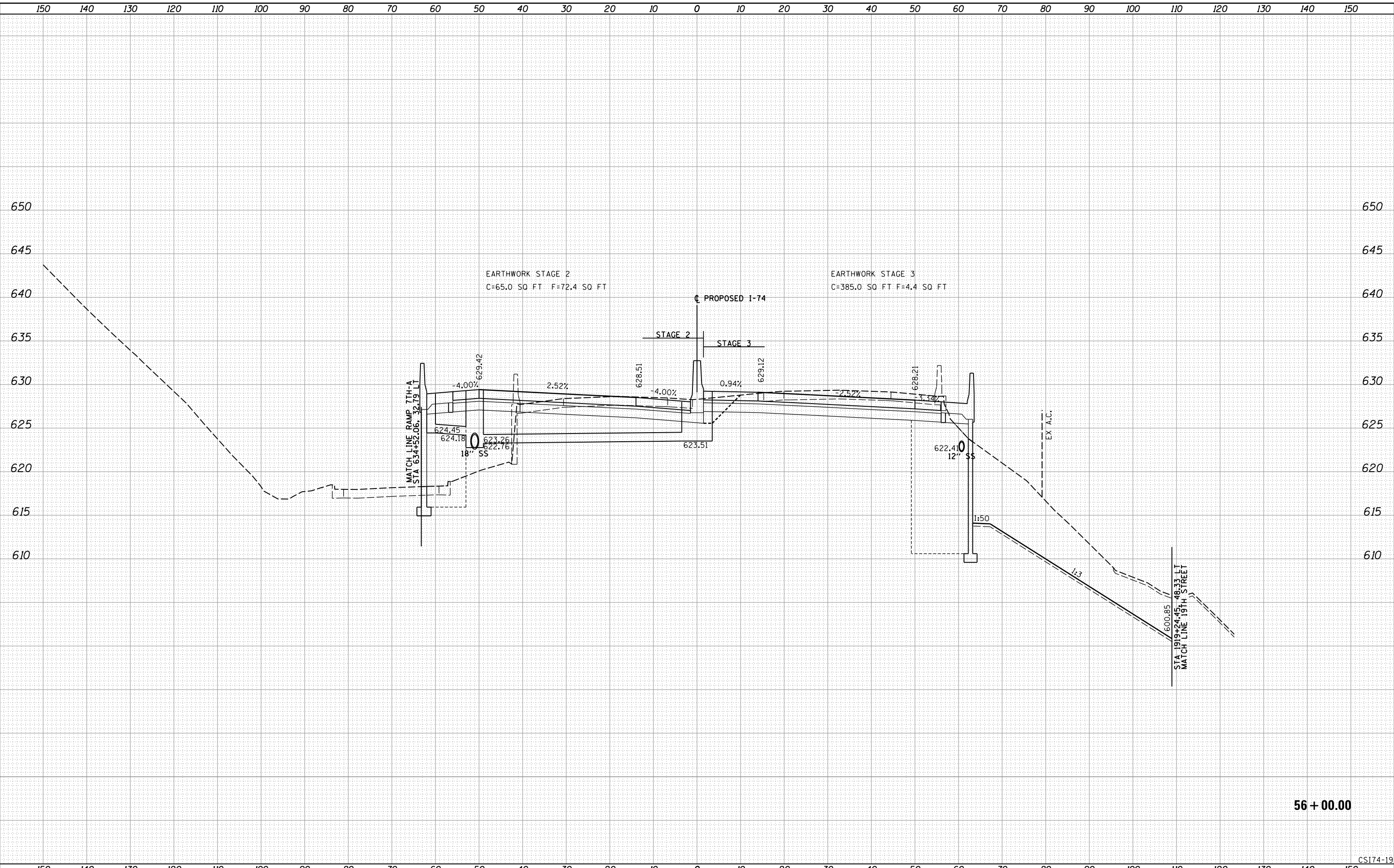
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 18 OF 171 SHEETS STA. 55+50.00 TO STA. 55+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1 & 81-1HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1585
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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56 + 00.00

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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CHECKED -	MTH/JJW
DATE -	3/23/2017
REVISIED -	
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REVISIED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

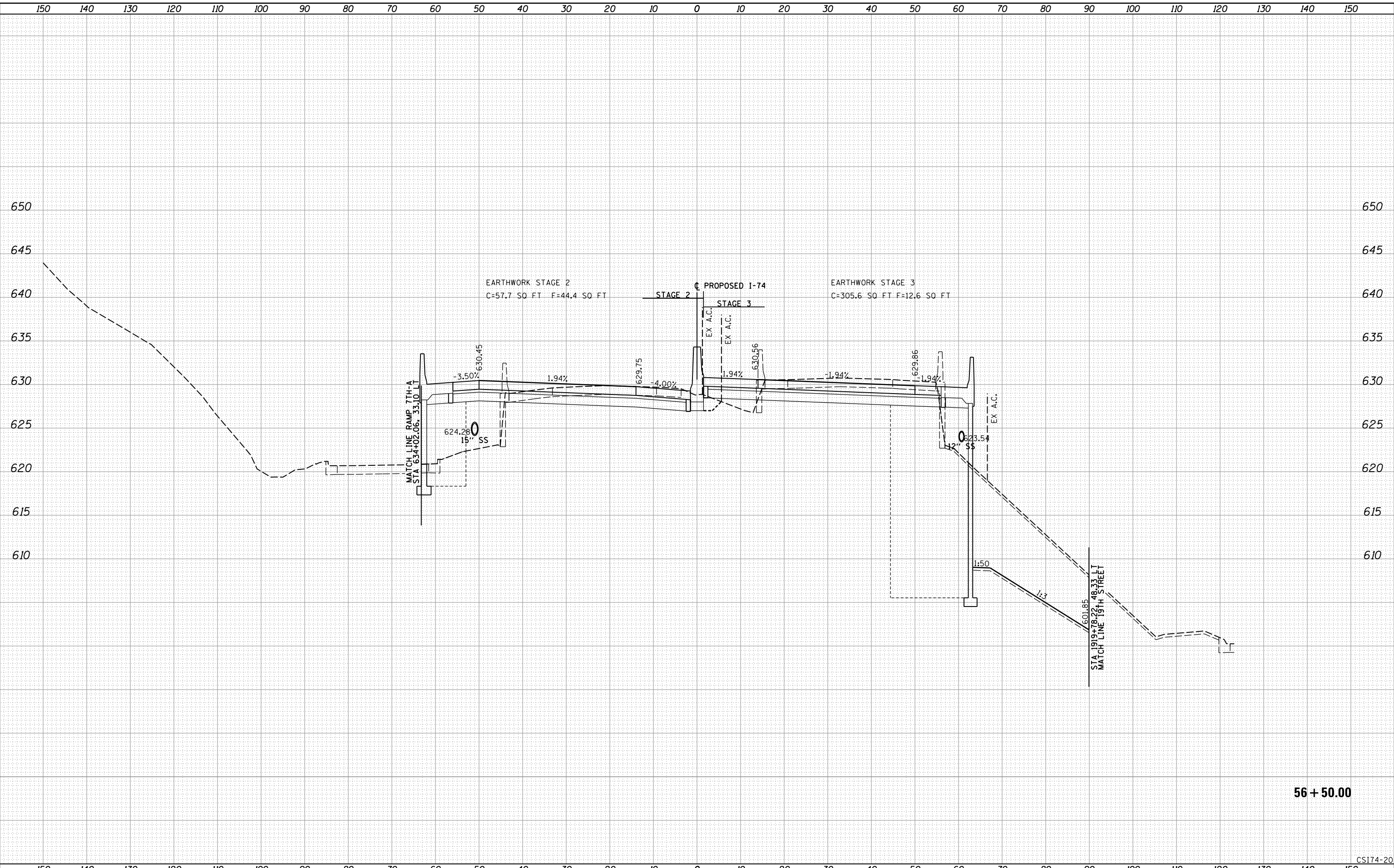
SCALE: SHEET NO. 19 OF 171 SHEETS STA. 56+00.00 TO STA. 56+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1586
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

CS174-19



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56 + 50.00

CSI74-20

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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				CHECKED -	MTH/JJW	REVISED -	
				DATE -	3/23/2017	REVISED -	

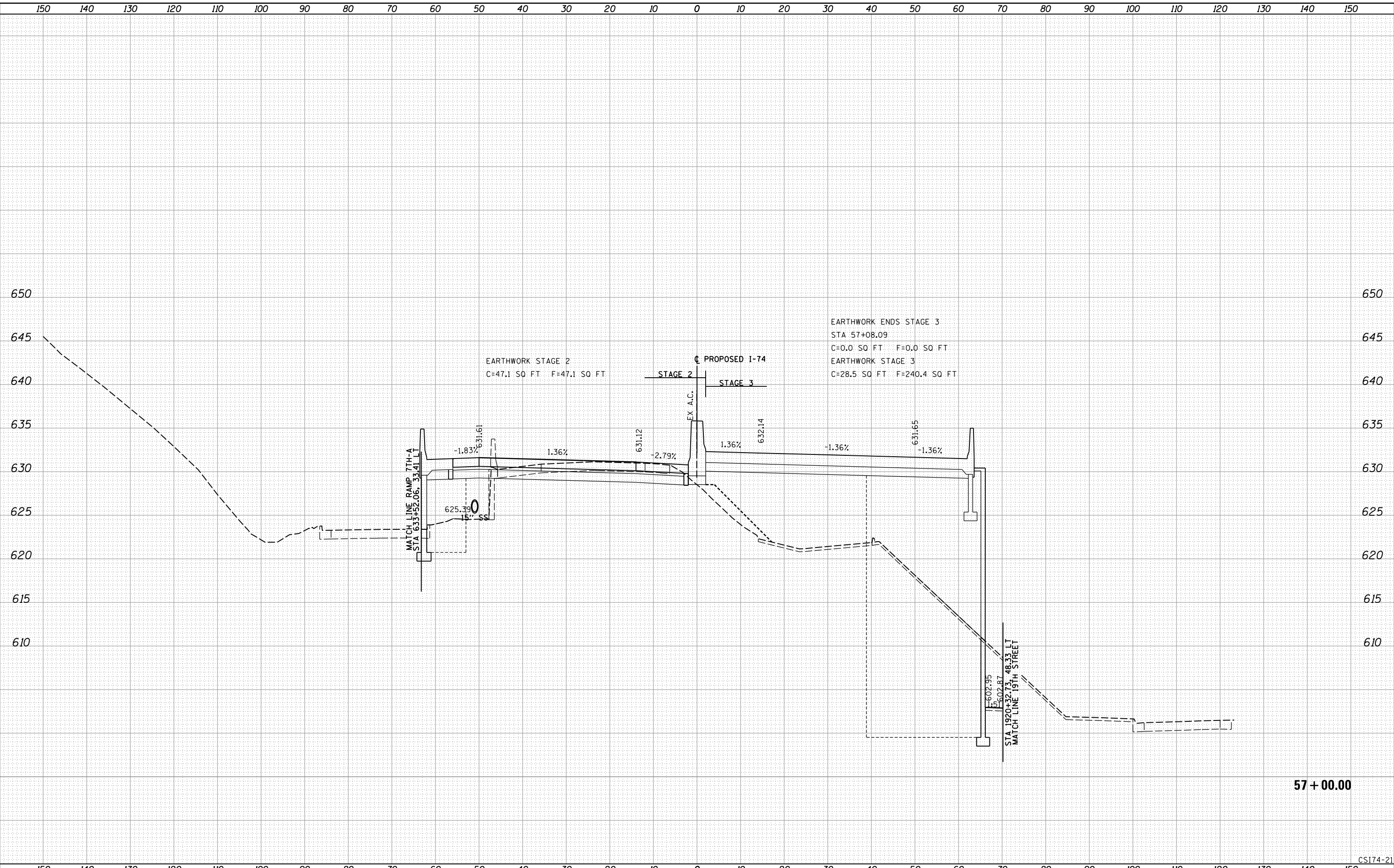
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
I-74 MAINLINE	
SCALE:	SHEET NO. 20 OF 171 SHEETS STA. 56+50.00 TO STA. 56+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1587
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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57 + 00.00

CS174-21

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

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CHECKED -	MTH/JJW
DATE -	3/23/2017

REVISED -	
REVISED -	
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REVISED -	

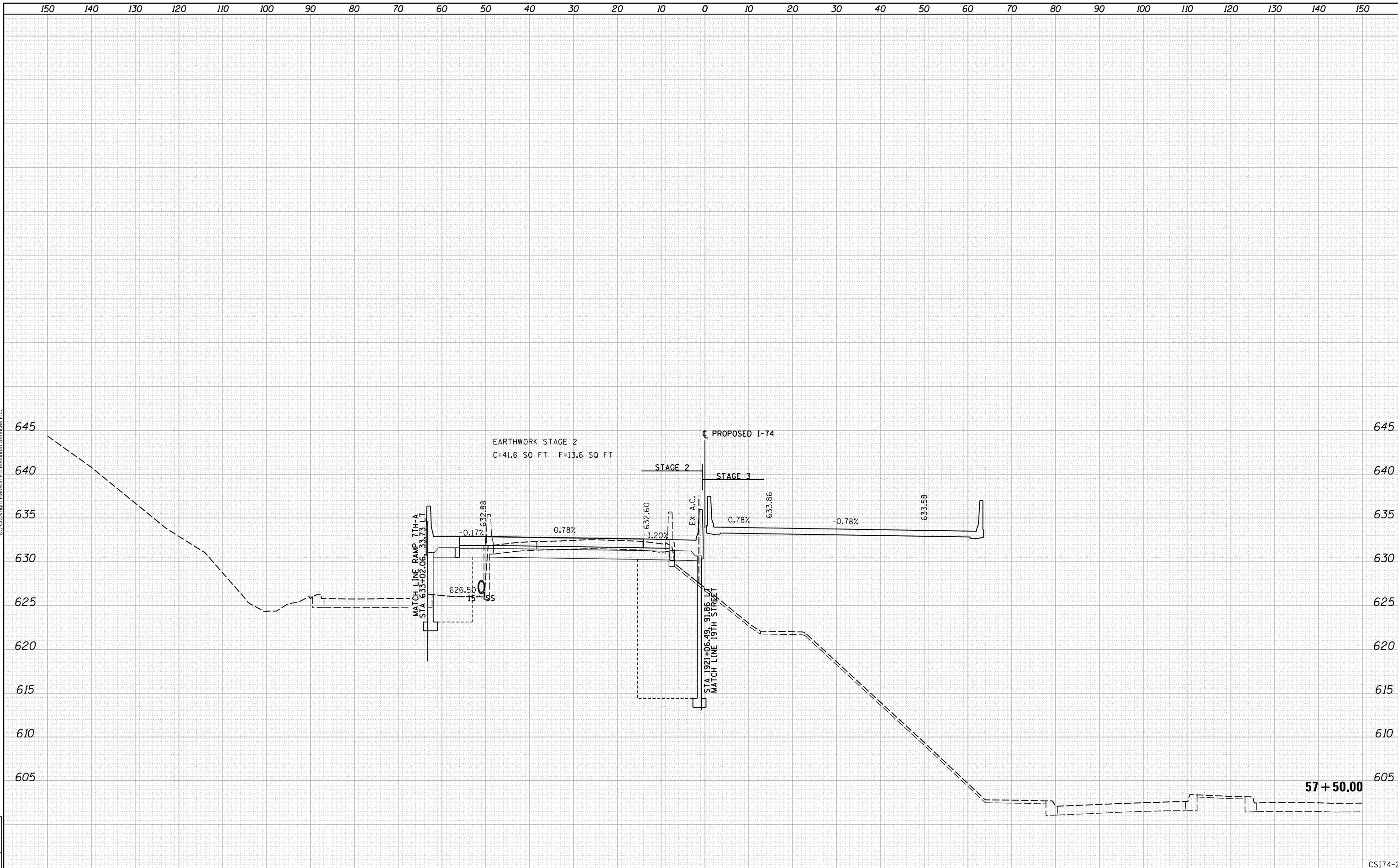
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
I-74 MAINLINE	
SCALE:	SHEET NO. 21 OF 171 SHEETS STA. 57+00.00 TO STA. 57+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1588
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



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57 + 50.00

CS174-22

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn
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CHECKED -	MTH/JJW
DATE -	3/23/2017
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PLOT DATE =	3/22/2017

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

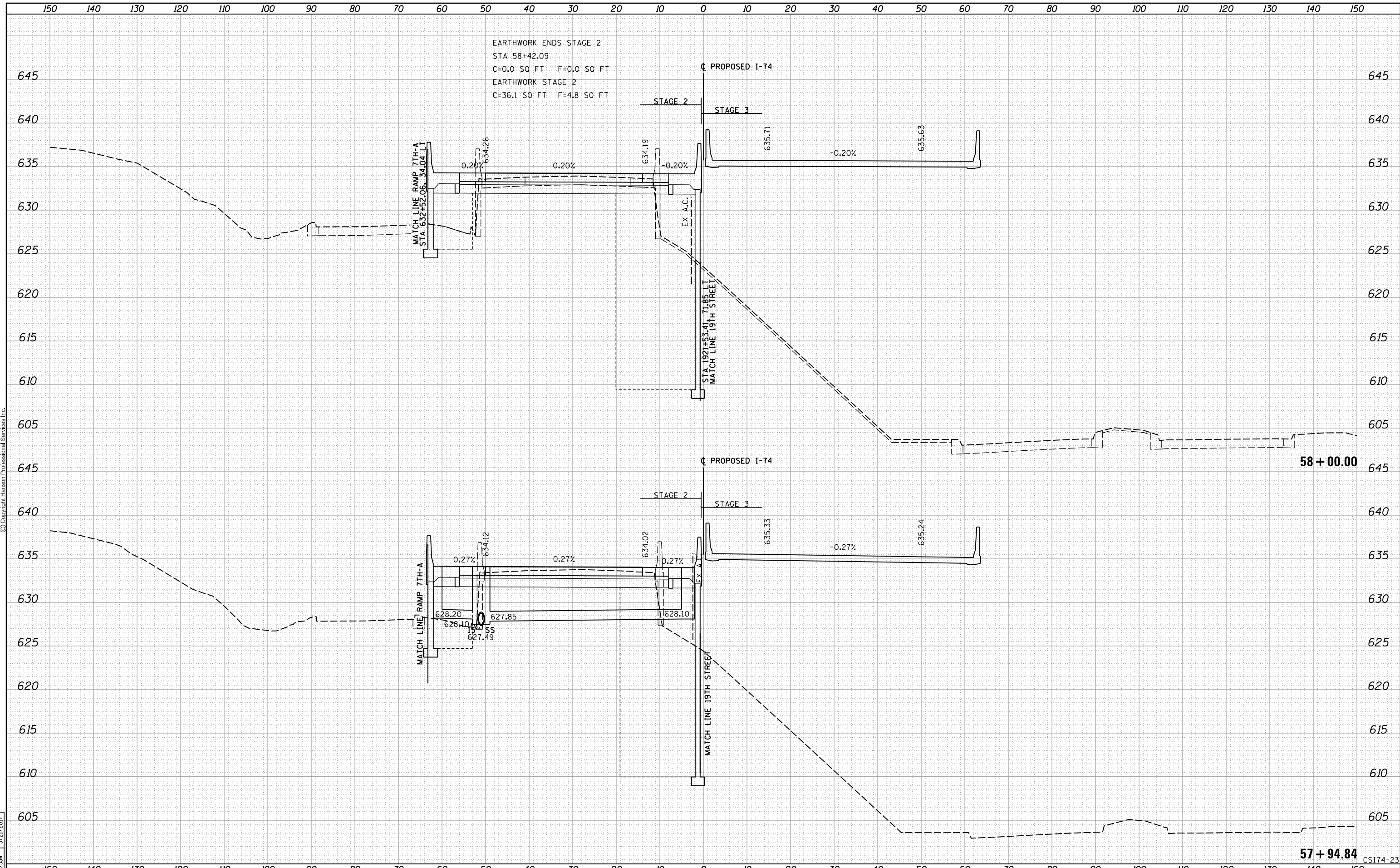
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 22 OF 171 SHEETS STA. 57+50.00 TO STA. 57+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1589
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME = D2CONCO-HPS-sht-xssht01M.dgn
 USER NAME = hehr01663

DESIGNED - RLT	REVISD -
DRAWN - RLT	REVISD -
CHECKED - MTH/JJW	REVISD -
DATE - 3/23/2017	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

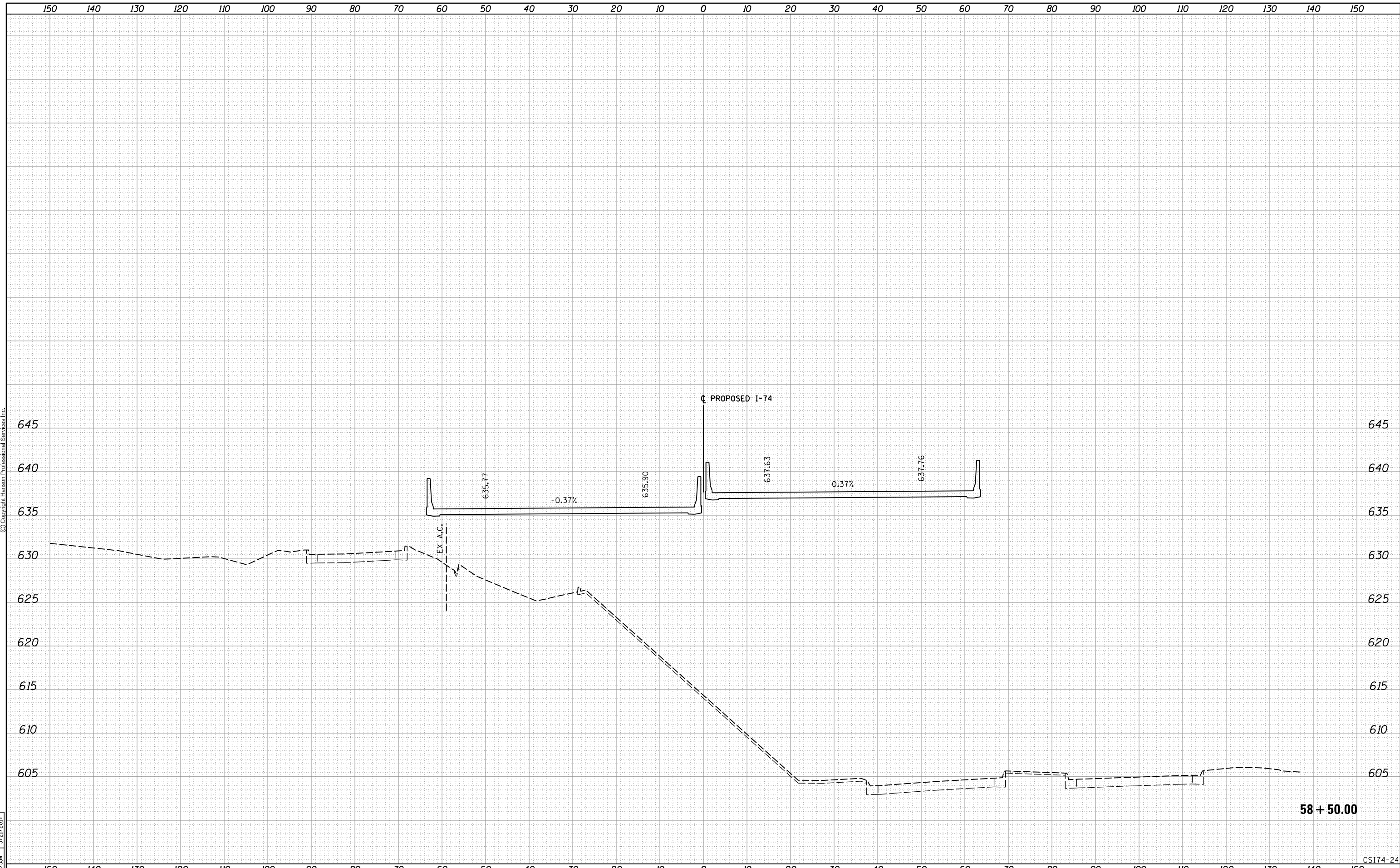
SCALE: SHEET NO. 23 OF 171 SHEETS STA. 58+00.00 TO STA. 57+94.84

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1590
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

57 + 94.84 CS174-23



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCD0-HPS-sht-xssht01M.dgn	USER NAME =	hehrn01663	DESIGNED -	RLT	REVISED -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 24 OF 171 SHEETS STA. 58+50.00 TO STA. 58+50.00

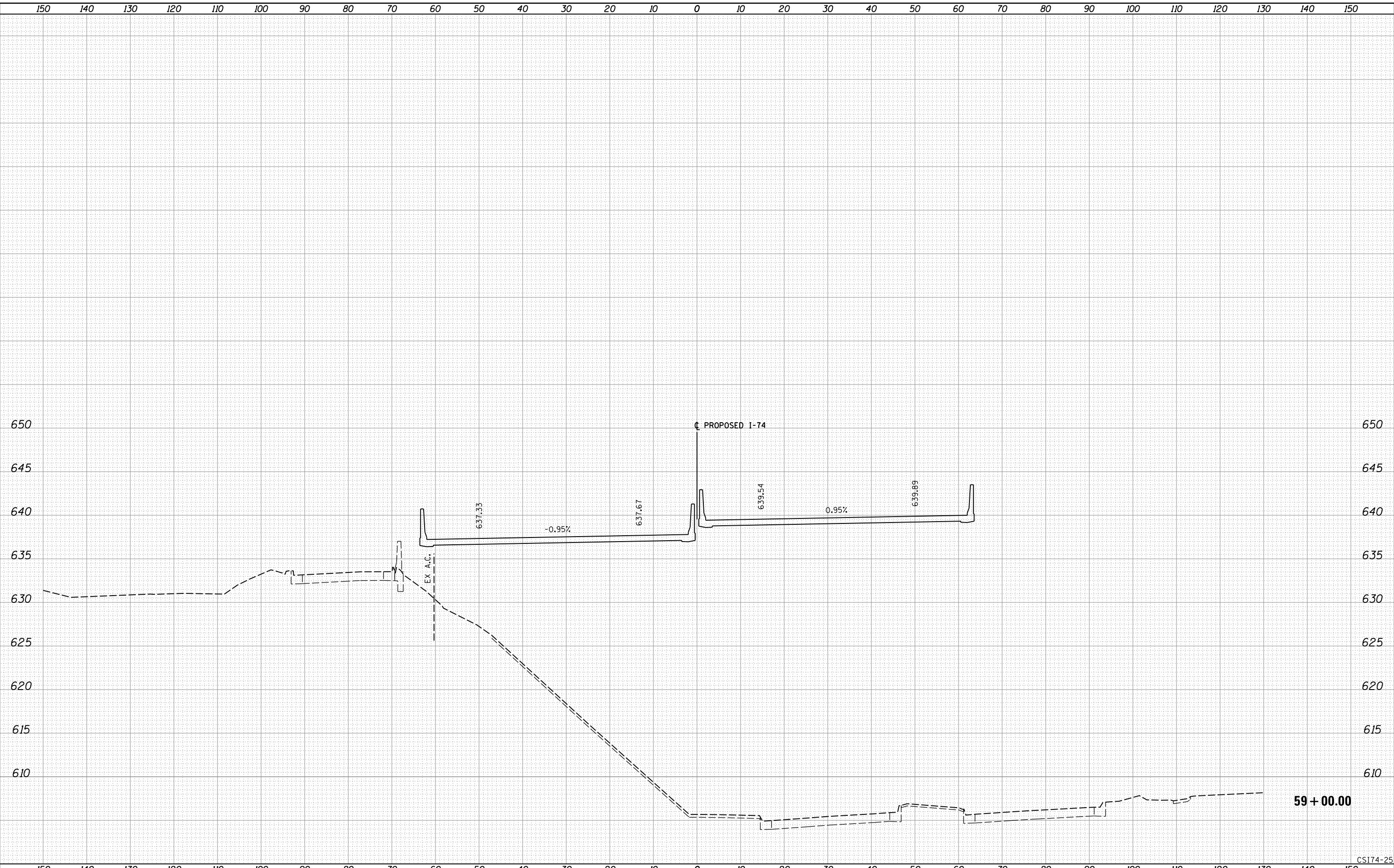
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1591
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

58 + 50.00

CS174-24



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn
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USER NAME =	hehrn01663
DESIGNED -	RLT
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CHECKED -	MTH/JJW
DATE -	3/23/2017

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 25 OF 171 SHEETS STA. 59+00.00 TO STA. 59+00.00

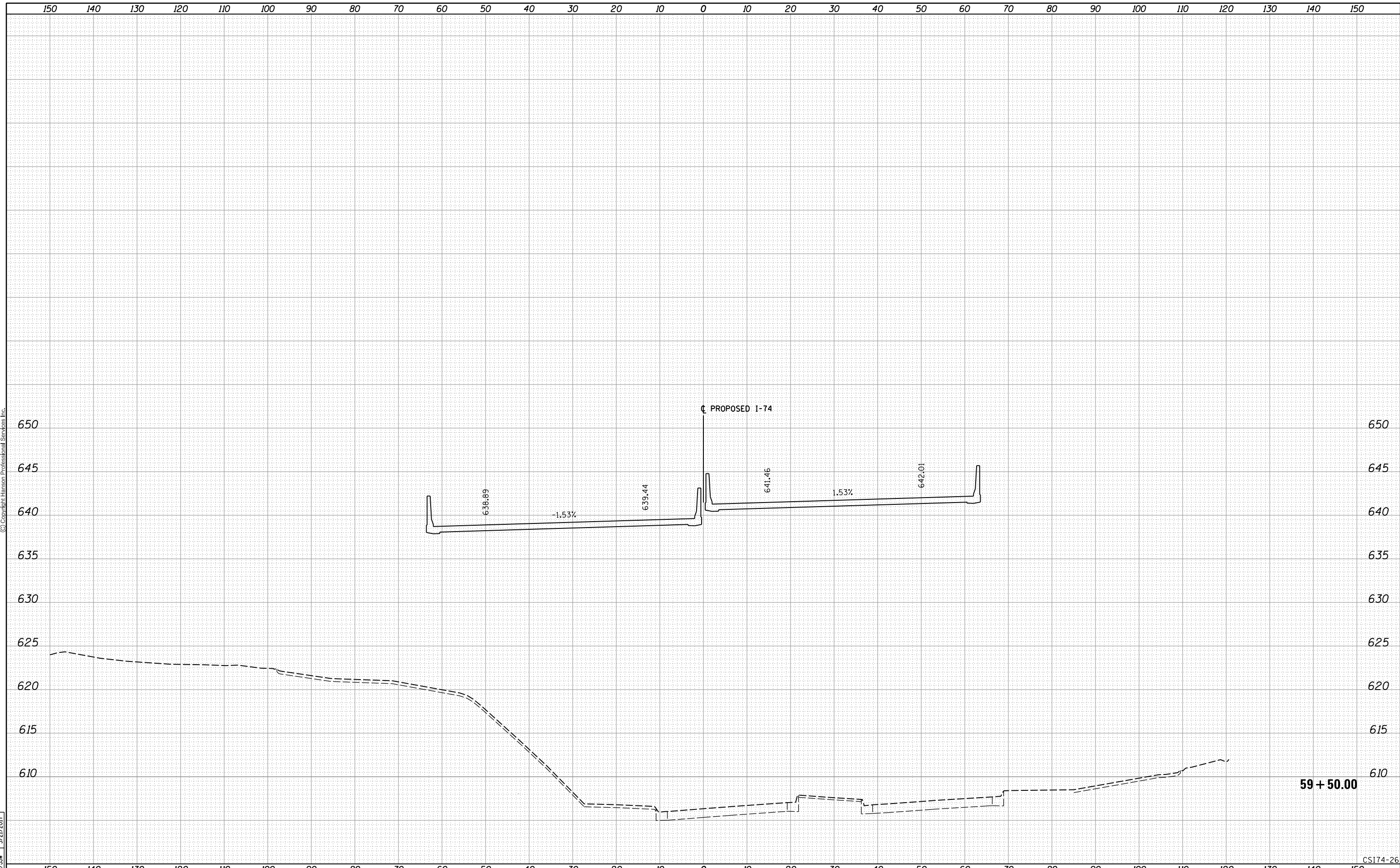
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1592
CONTRACT NO.			64E26	
ILLINOIS FED. AID PROJECT				

59 + 00.00

CS174-25



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONC0-HPS-sht-xssht01M.dgn	USER NAME =	hehr01663	DESIGNED -	RLT	REVISED -	
		DRAWN -	RLT	CHECKED -	MTH/JJW	REVISED -	
		PLOT SCALE =		DATE -	3/23/2017	REVISED -	
		PLOT DATE =	3/22/2017				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

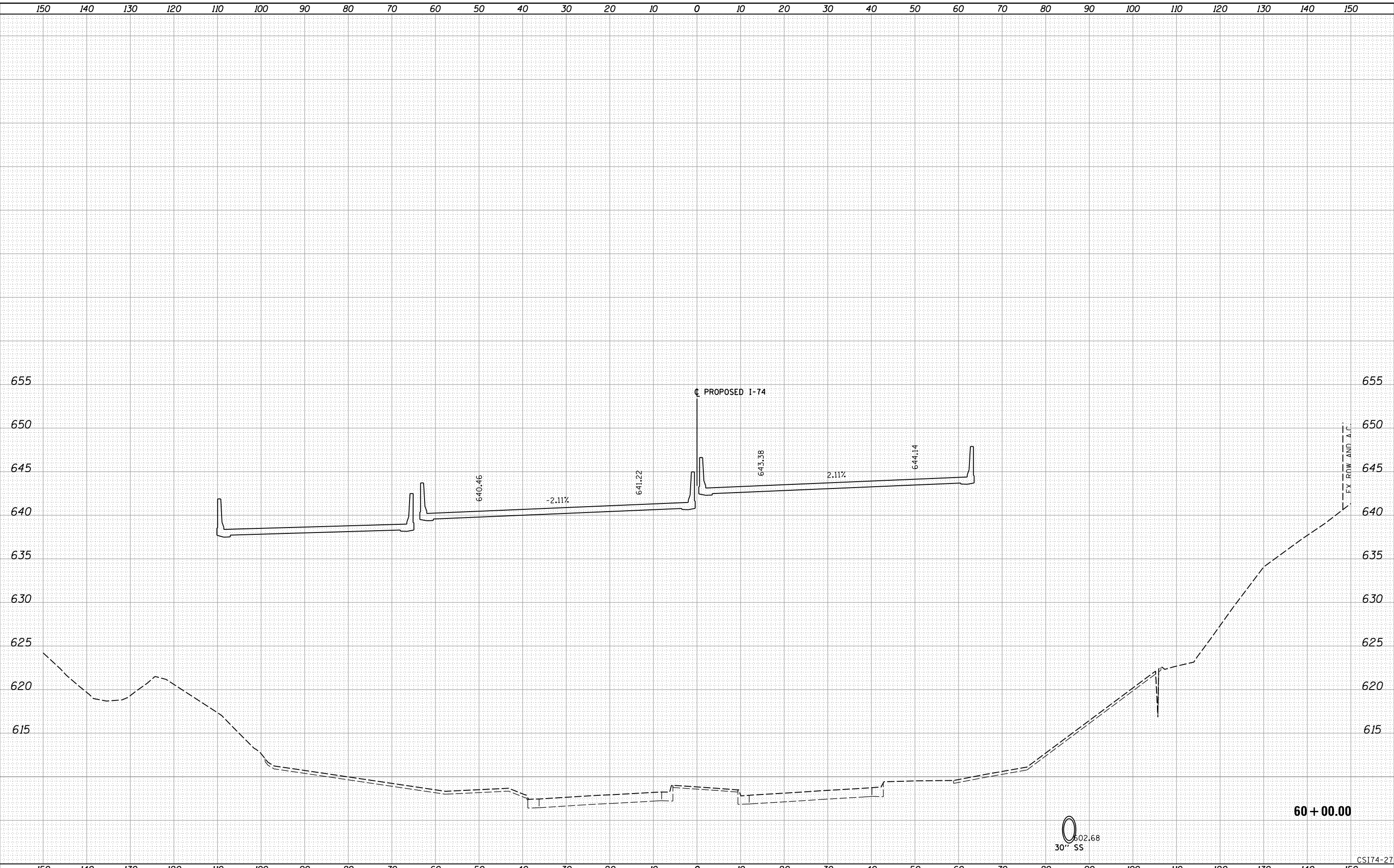
SCALE: SHEET NO. 26 OF 171 SHEETS STA. 59+50.00 TO STA. 59+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1593
CONTRACT NO.			64E26	
ILLINOIS FED. AID PROJECT				

CSI74-26



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCD-HPS-sht-xssht01M.dgn	USER NAME =	hehrn01663	DESIGNED -	RLT	REVISED -	
		DRAWN -	RLT	CHECKED -	MTH/JJW	REVISED -	
		PLOT SCALE =		DATE -	3/23/2017	REVISED -	
		PLOT DATE =	3/22/2017				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 27 OF 171 SHEETS STA. 60+00.00 TO STA. 60+00.00

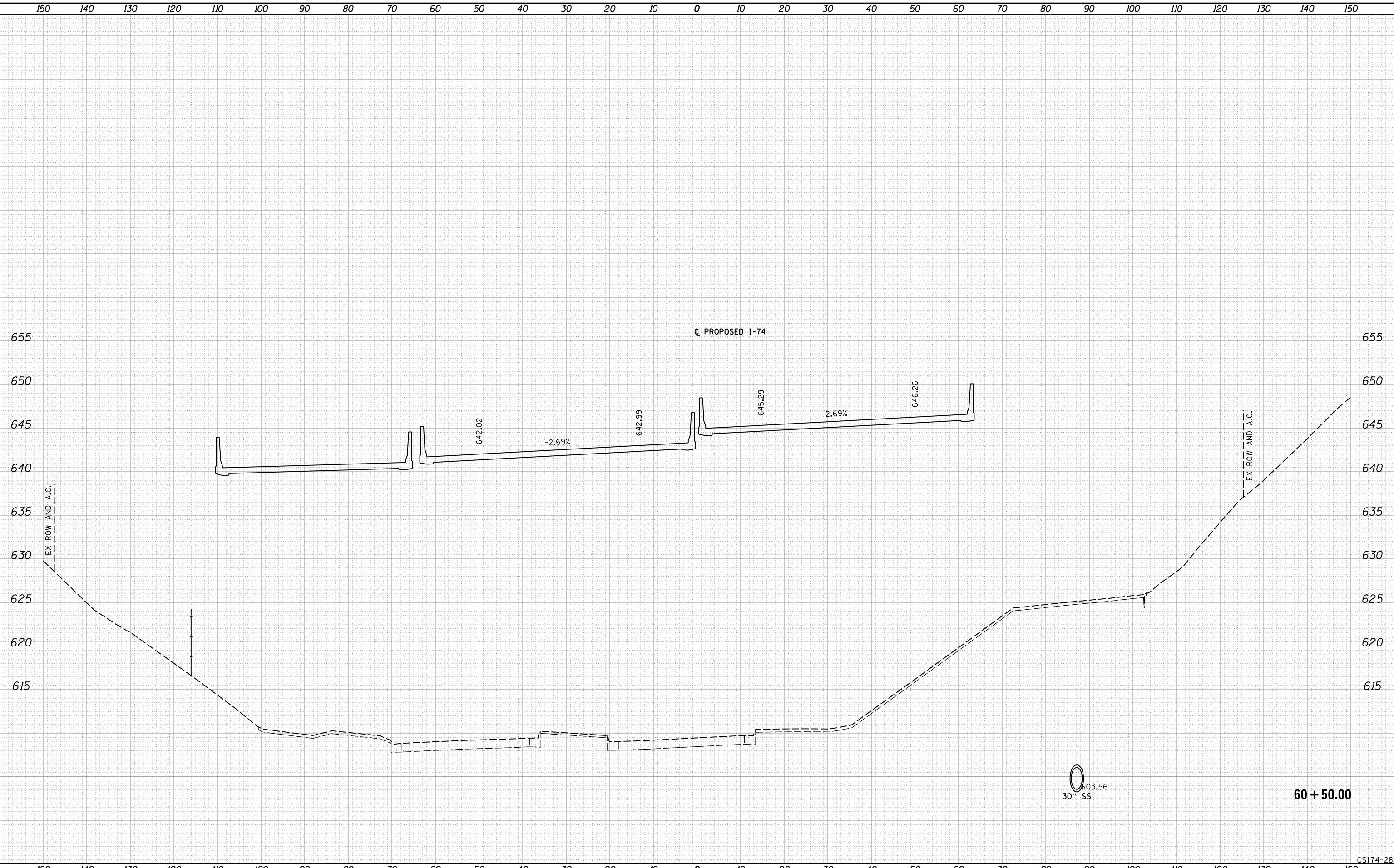
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1594
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

60 + 00.00

CS174-27



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCD-HPS-sht-xssht01M.dgn
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USER NAME =	hehrn01663
DESIGNED -	RLT
DRAWN -	RLT
CHECKED -	MTH/JJW
DATE -	3/23/2017

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 28 OF 171 SHEETS STA. 60+50.00 TO STA. 60+50.00

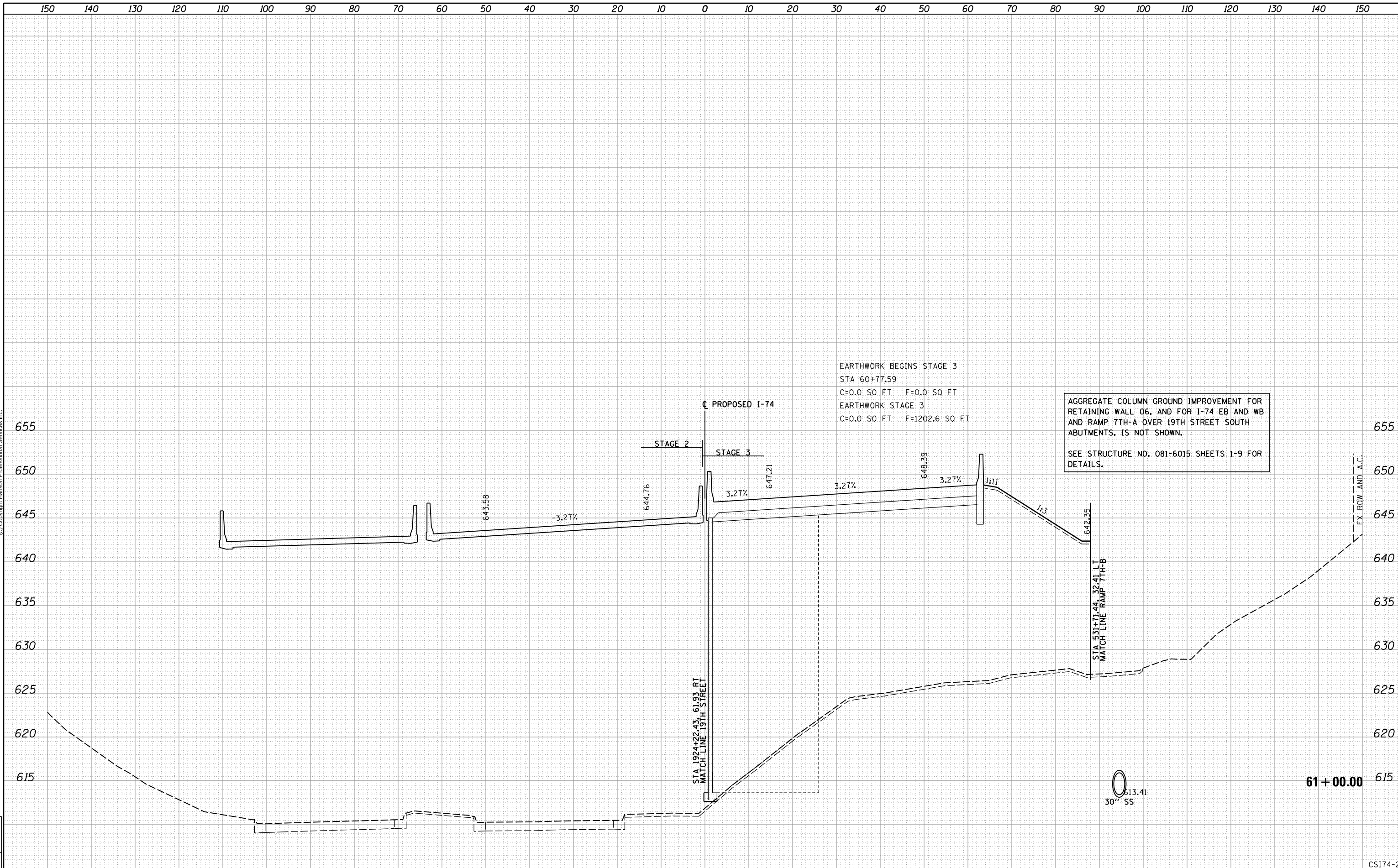
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1 & 81-1(H)R, HBR-1, HBR-2)	ROCK ISLAND	2042	1595
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

60 + 50.00

CS174-28



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME = D2CONCO-HPS-sht-xssht01M.dgn
 USER NAME = hehrn01663

DESIGNED - RLT	REVISD -
DRAWN - RLT	REVISD -
CHECKED - MTH/JJW	REVISD -
DATE - 3/23/2017	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

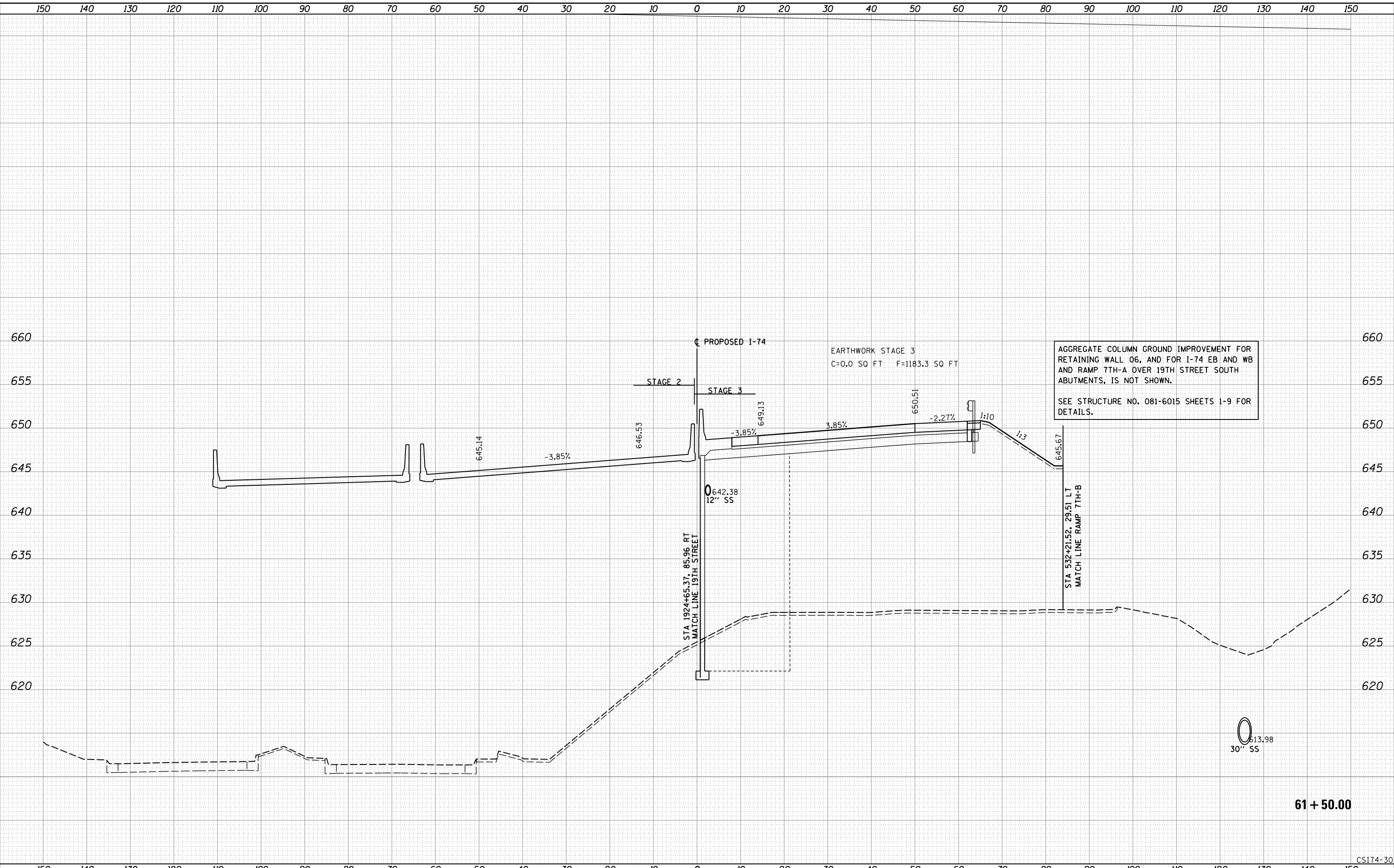
SCALE: SHEET NO. 29 OF 171 SHEETS STA. 61+00.00 TO STA. 61+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1596
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

CS174-29



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LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssht01M.dgn	USER NAME =	hehrn01663	DESIGNED -	RLT	REVISED -	
PLOT SCALE =		CHECKED -	MTH/JJW	REVISED -		DATE -	3/23/2017
PLOT DATE =	3/22/2017	DATE -	3/23/2017	REVISED -			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 30 OF 171 SHEETS STA. 61+50.00 TO STA. 61+50.00

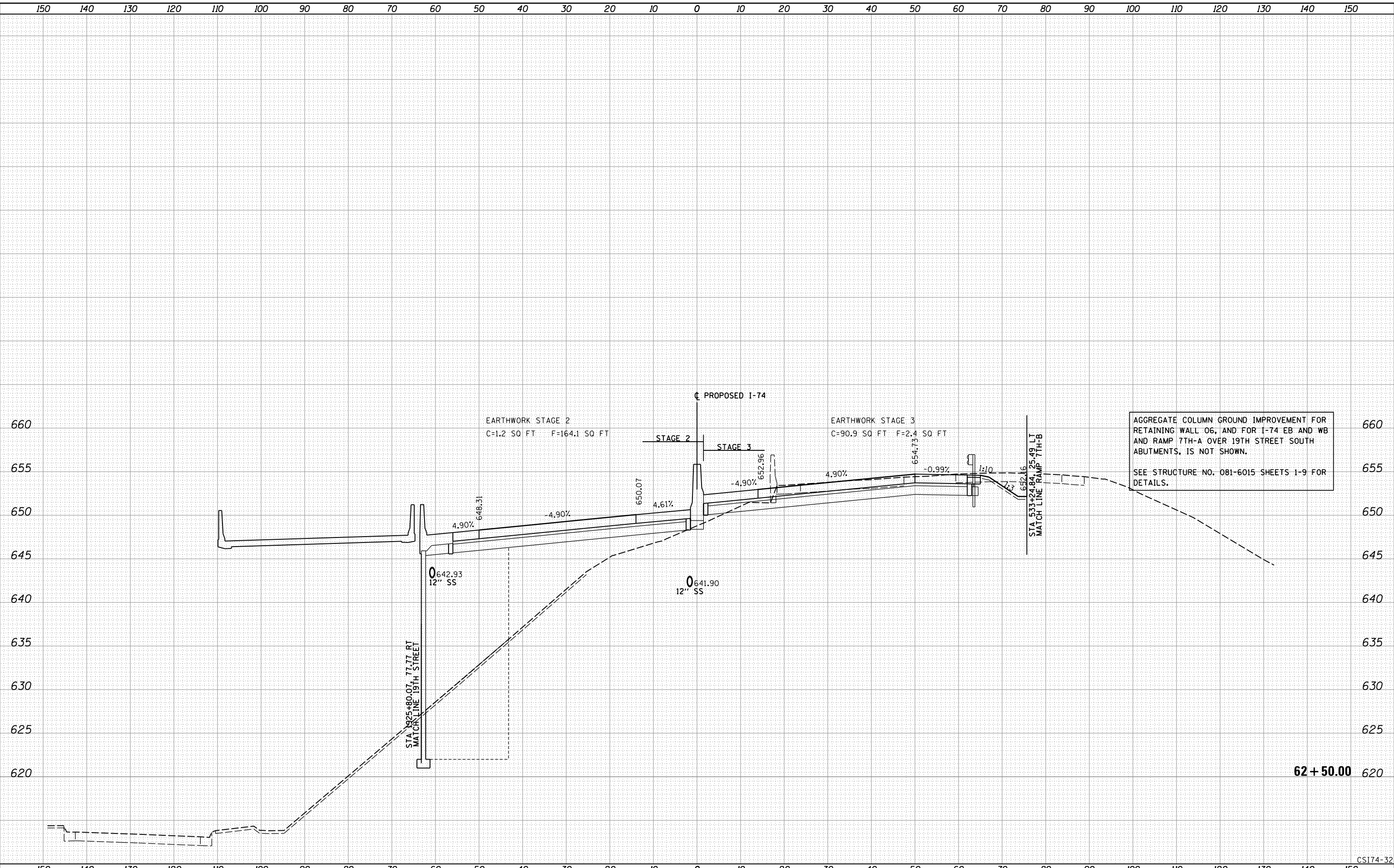
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1597
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

61 + 50.00

CSI74-30



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62 + 50.00

CSI174-32

LAYOUT	RLT	7/22/2011
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME = D2CONCO-HPS-sht-xssh01M.dgn
 USER NAME = hehr01663

DESIGNED - RLT	REVISED -
DRAWN - RLT	REVISED -
CHECKED - MTH/JJW	REVISED -
DATE - 3/23/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

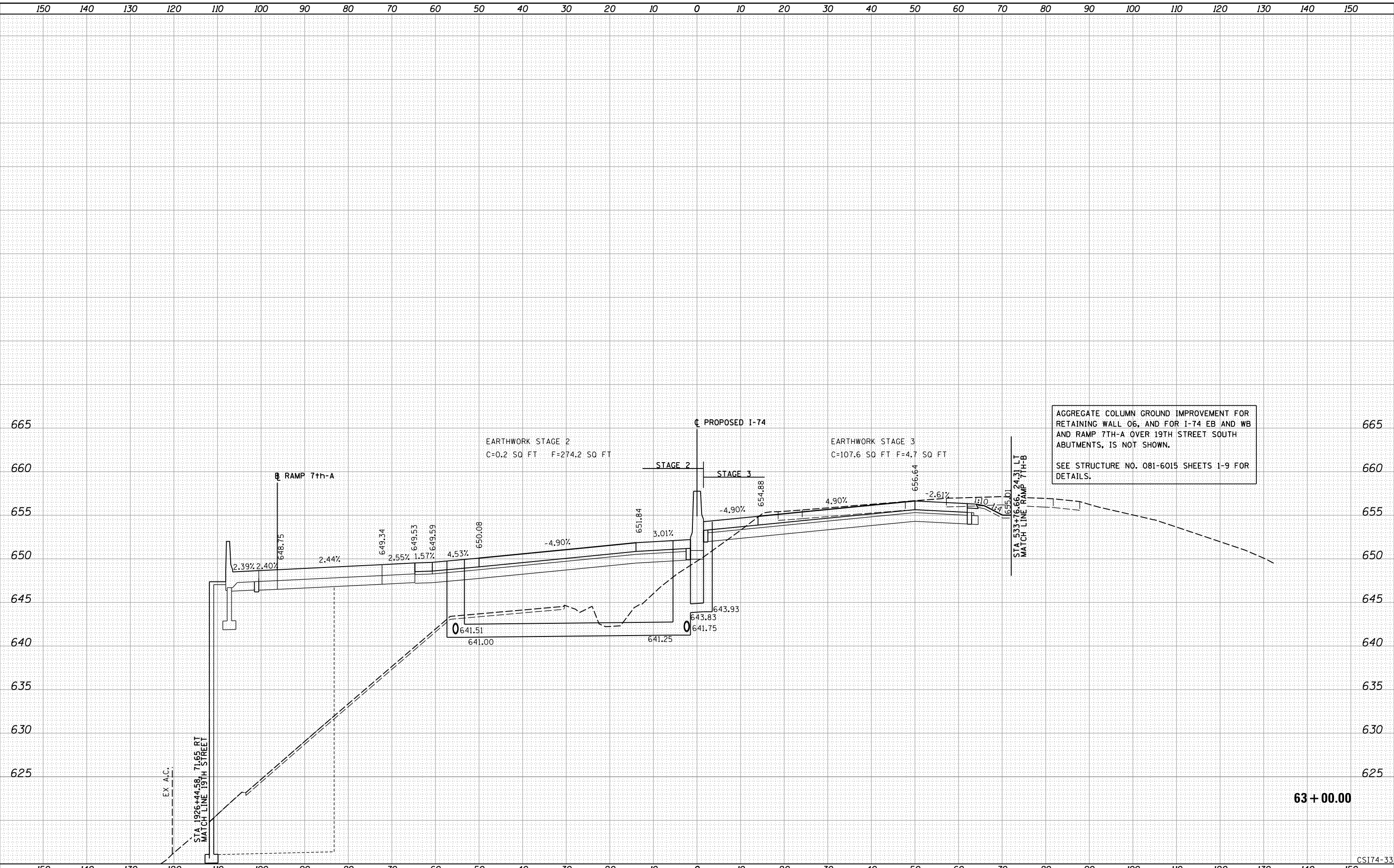
**CROSS SECTIONS
I-74 MAINLINE**

SCALE: SHEET NO. 32 OF 171 SHEETS STA. 62+50.00 TO STA. 62+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1599
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	



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63 + 00.00

CS174-33

LAYOUT	RLT	7/22/2017
DRAWN	RLT	2/8/2016
REVIEWED	MTH/JJW	3/21/2017

FILE NAME =	D2CONCO-HPS-sht-xssh01M.dgn
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USER NAME =	hehrn01663
DESIGNED -	RLT
DRAWN -	RLT
CHECKED -	MTH/JJW
DATE -	3/23/2017
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REVIS	
REVIS	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS I-74 MAINLINE	
SCALE:	STA. 63+00.00 TO STA. 63+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1 & 81-11HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1600
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	