

LAWRENCE

01-21-2022 LETTING ITEM 045

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT YEAR 2019 - 2200

STATION EQUATION

STA. 889+67.2 BK = STA. 890+00 AH

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.P. 332 (IL ROUTE 1)
SECTION (15BY)BR
PROJECT NHPP-8JWU(669)
BRIDGE REPLACEMENT
LAWRENCE COUNTY
C-97-086-18

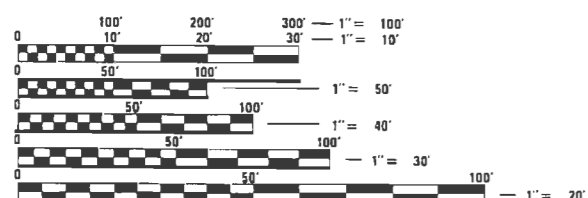
OLD STRUCTURE # 051-0008
NEW STRUCTURE # 051-2010
STATION 891+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	1
		ILLINOIS	CONTRACT NO. 74860	

D-97-047-18



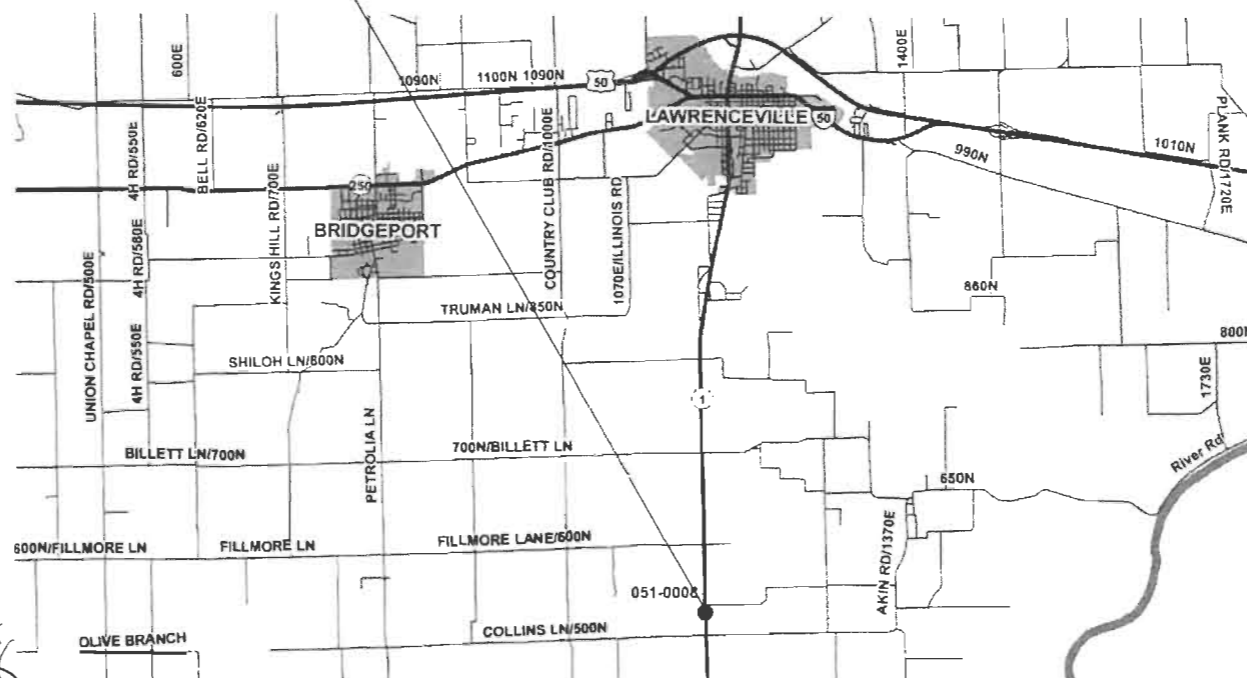
LOCATION OF SECTION INDICATED THIS: - [black rectangle]



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

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

Replaced 051-0008



GROSS LENGTH = 800 FT. = 0.15 MILE
NET LENGTH = 800 = 0.15 MILE

PROJECT ENGINEER: BRIAN LEWIS 217-342-8360
PROJECT MANAGER: MYRA OLTMAN 217-342-8246

CONTRACT NO. 74860

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *December 26* 20 *21*
Jeffrey P. Myer
REGIONAL ENGINEER

December 10 20 *21*
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 *21*
Stephen M. Lewis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

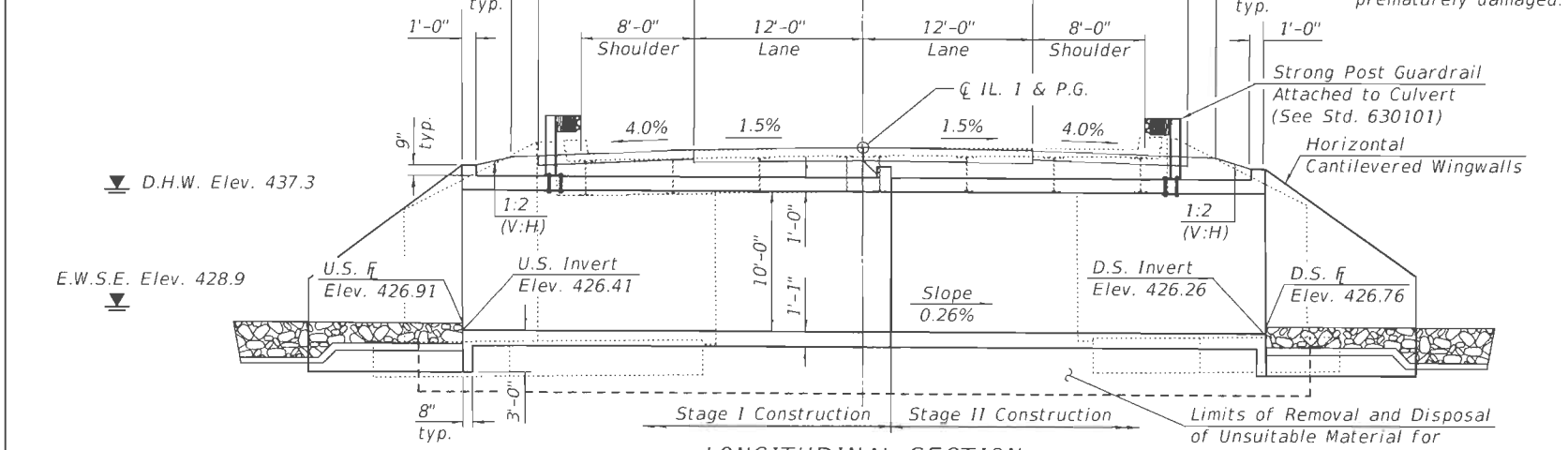
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REV. - MS

Benchmark: Chiseled square on NE corner of wingwall of existing S.N. 051-0008. Sta. 891+20, 22.0' Rt. Elev = 439.68
 Existing Structure: S.N. 051-0008 was originally constructed in 1924 under SBI Route 1 - Section 15 as a single span reinforced concrete thru girder with closed abutments on untreated timber piles. In 1956, the abutments were widened, and the superstructure was replaced with 30WF beams on 38'-0" bk. to bk. abutments. The superstructure is non-composite with a 42'-4" out-to-out deck and has 0° skew. The existing structure is to be removed and replaced. Traffic is to be maintained using stage construction.

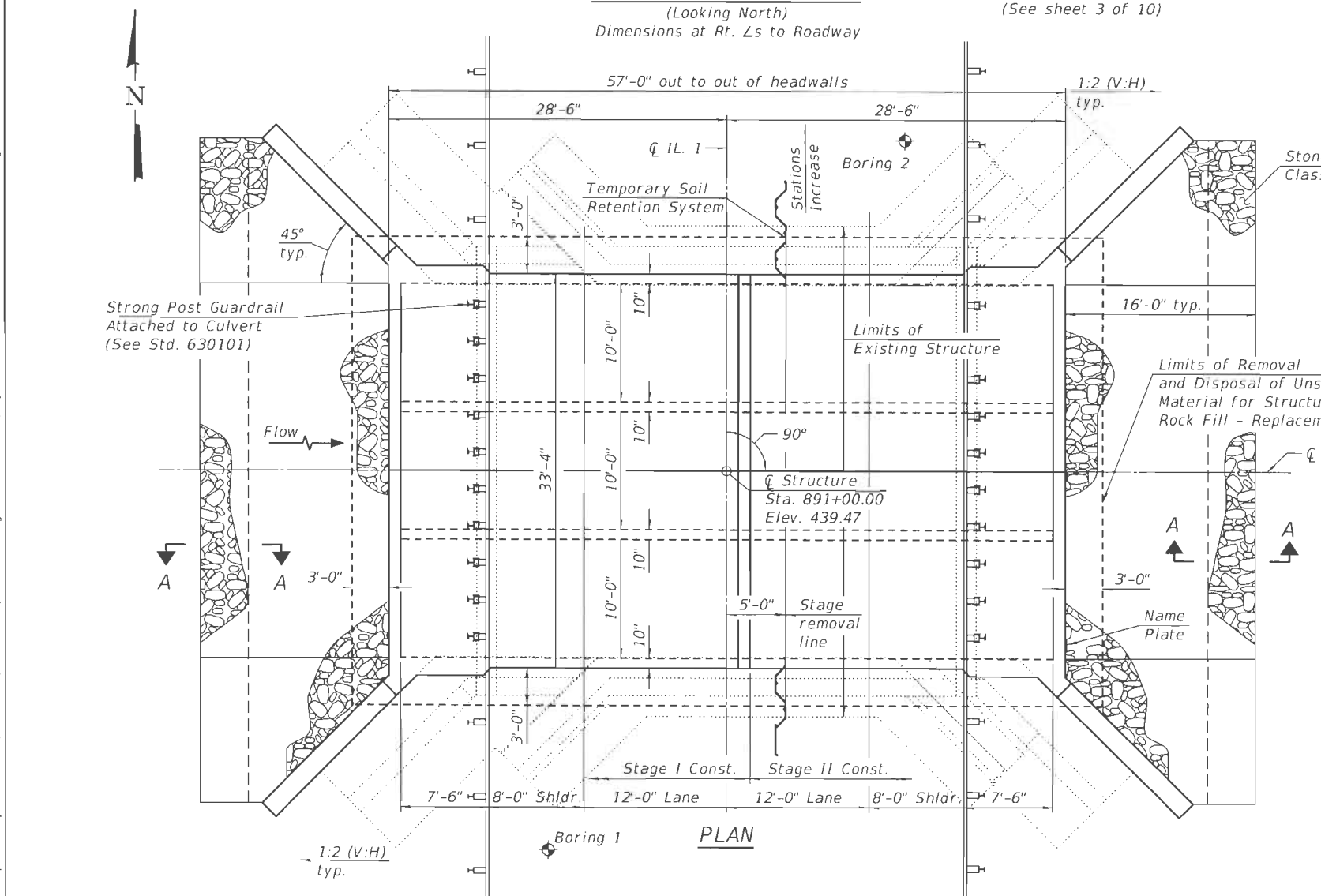
Precast alternate is not allowed.

No Salvage



LONGITUDINAL SECTION

(Looking North)
 Dimensions at Rt. Ls to Roadway



PLAN

GENERAL NOTES

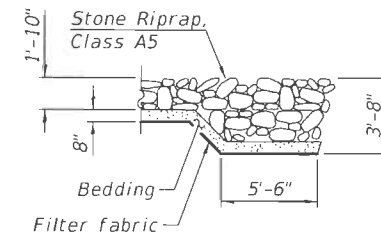
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

WATERWAY INFORMATION

Existing Overtopping Elev. 439.34 ft. at Sta. 881+45
 Drainage Area = 2.12 Sq. Mi. Proposed Overtopping Elev. 439.34 ft. at Sta. 881+45

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	10	894	233	260	435.6	0.8	0.0	436.4	435.6	
Design	50	1490	240	281	437.3	0.5	0.2	437.8	437.5	
Base	100	1770	240	281	437.7	1.2	0.6	438.9	438.3	
Overtopping (E)	140	1923	240	281	437.8	1.5	1.0	439.3	438.8	
Overtopping (P)	270	2175	240	281	438.0	1.6	1.2	439.6	439.2	
Max. Calc.	500	2470	240	281	438.1	1.7	1.6	439.8	439.7	

10-Year outlet velocity from existing structure = 3.8 fps
 10-Year outlet velocity from proposed structure = 3.4 fps



SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material, for Structures	Cu. Yd.	260
Stone Riprap, Class A5	Sq. Yd.	165
Filter Fabric	Sq. Yd.	165
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	48,700
Bar Splicers	Each	216
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	430
Concrete Box Culverts	Cu. Yd.	275.3
Rock Fill - Replacement	Ton	467
Membrane Waterproofing System for Buried Structures	Sq. Yd.	224
Strong Post Guardrail Attached to Culvert	Foot	75
Geocomposite Wall Drain	Sq. Yd.	224

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

LOADING HL-93

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

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - Stage Construction Details
- 3 - Temporary Soil Retention System
- 4 - Temporary Concrete Barrier
- 5 - Top & Bottom Slab
- 6 - Culvert Sections
- 7 - Wingwall Details
- 8 - Culvert Details
- 9 - Bar Splicer Assembly Details
- 10 - Soil Boring Logs

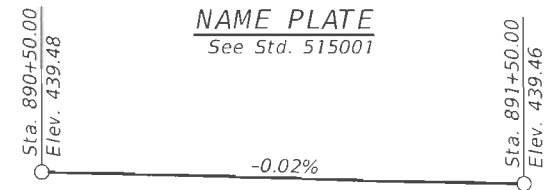
STATION 891+00.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 332 - SEC. (15BY)BR
 LOADING HL-93
 STRUCTURE NO. 051-2010

NAME PLATE

See Std. 515001

PROFILE GRADE

(Along CL. Rte. 1)

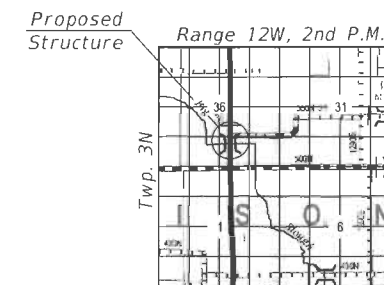


GENERAL PLAN & ELEVATION
 ILLINOIS ROUTE 1 OVER BIG SLOUGH
 F.A.P. RTE. 332 - SECTION (15BY)BR

LAWRENCE COUNTY

STATION 891+00.00

STRUCTURE NO. 051-2010



LOCATION SKETCH



EXPIRES 11-30-2022

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

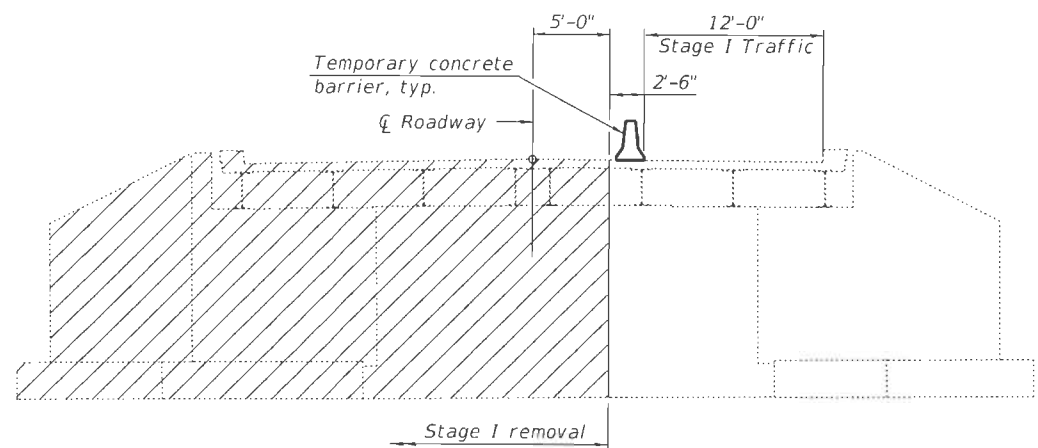
DESIGNED - HAMEED S. SALIH	EXAMINED - [Signature]	DATE - 12-10-2021
CHECKED - MICHAEL A. PAULIONIS	ENGINEER OF BRIDGE DESIGN	
DRAWN - DENNIS A. POP	PASSED - [Signature]	REVISOR -
CHECKED - H.S.S. / M.A.P. / D.H.C.	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -

SHEET 1 OF 10 SHEETS

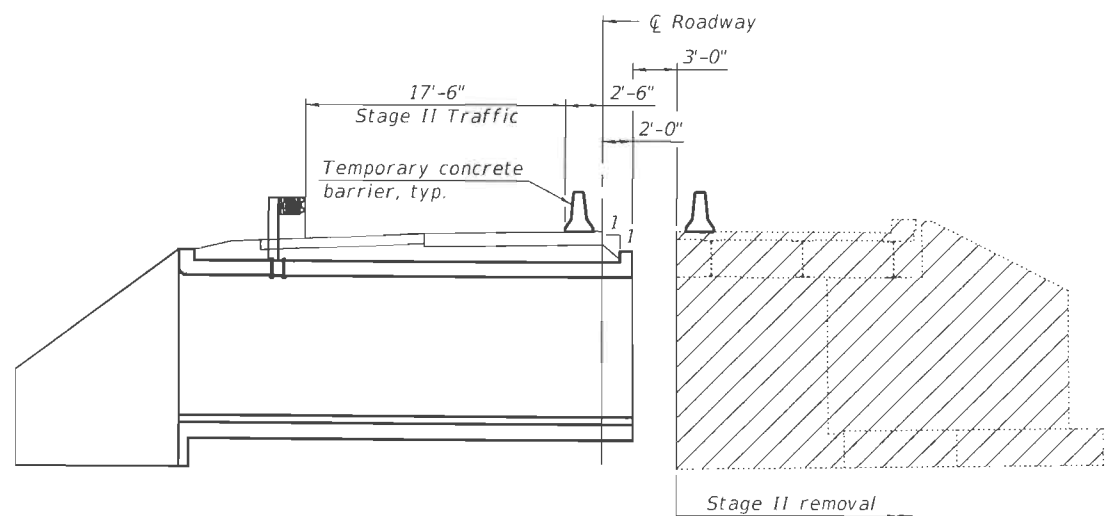
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	16
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

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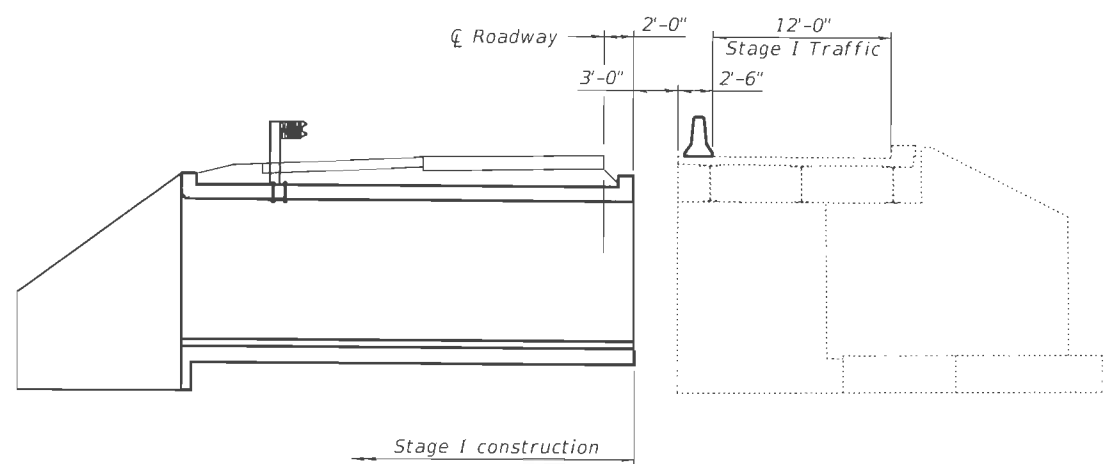
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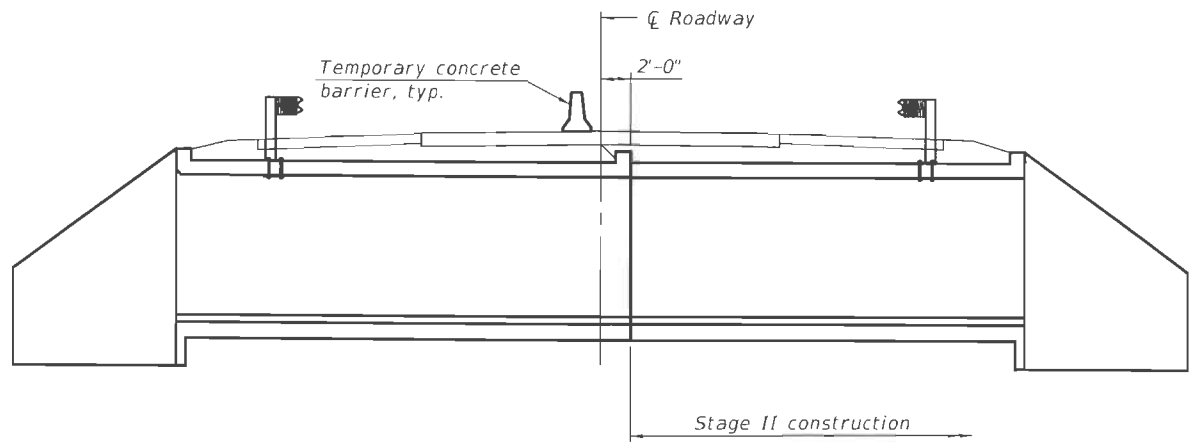
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Notes:
 Hatched areas indicate removal of existing structures.
 For quantity of temporary concrete barrier, see Roadway Plans. All cross sections are taken looking North.
 For details of Temporary Concrete Barrier see sheet 4 of 10.
 Removal of the substructure shall be according to Article 501.04 of the Standard Specifications.

DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED
 PASSED
 ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 10, 2021
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 051-2010**

SHEET 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	17
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

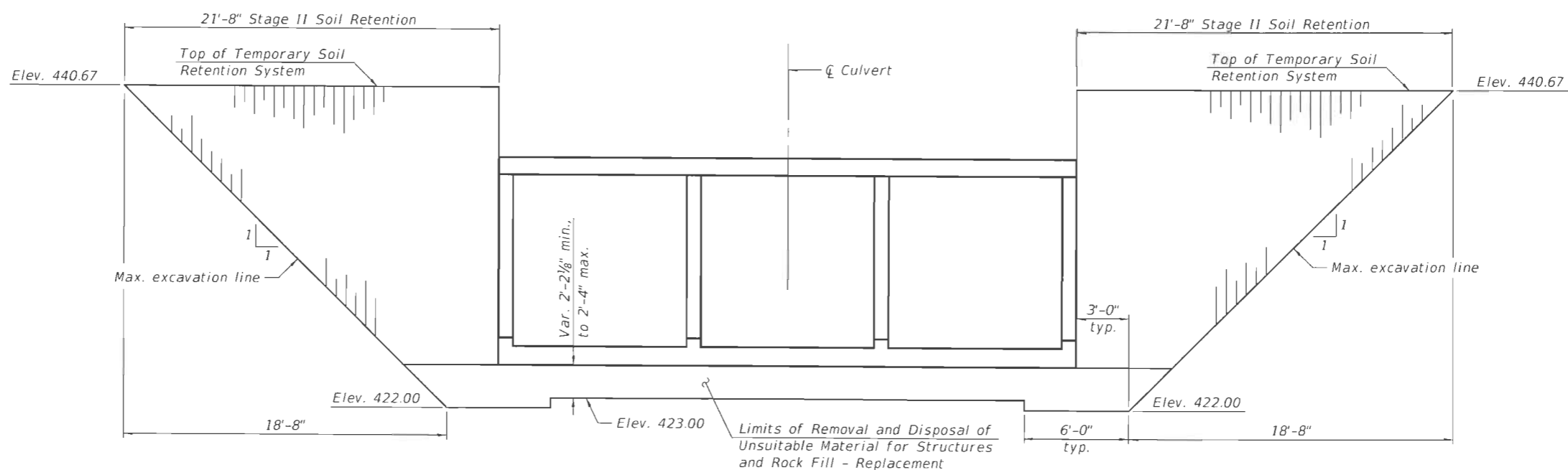


STAGE I TEMPORARY SOIL RETENTION SYSTEM

(Looking East - Horizontal dimensions are looking East along \bar{C} F.A.P. Rte. 332)

Note:

A cantilevered sheet piling design does not appear to be feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.



STAGE II TEMPORARY SOIL RETENTION SYSTEM

(Looking East - Horizontal dimensions are looking East along \bar{C} F.A.P. Rte. 332)

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CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	<i>Joanne F. [Signature]</i>	DATE -	DECEMBER 10, 2021
PASSED	<i>[Signature]</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

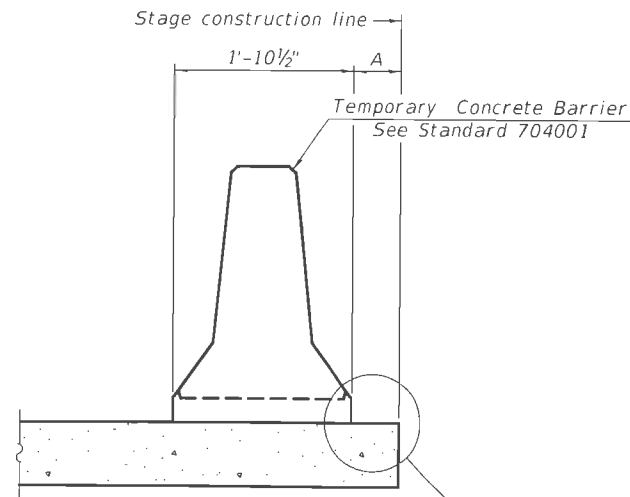
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 051-2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	18
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

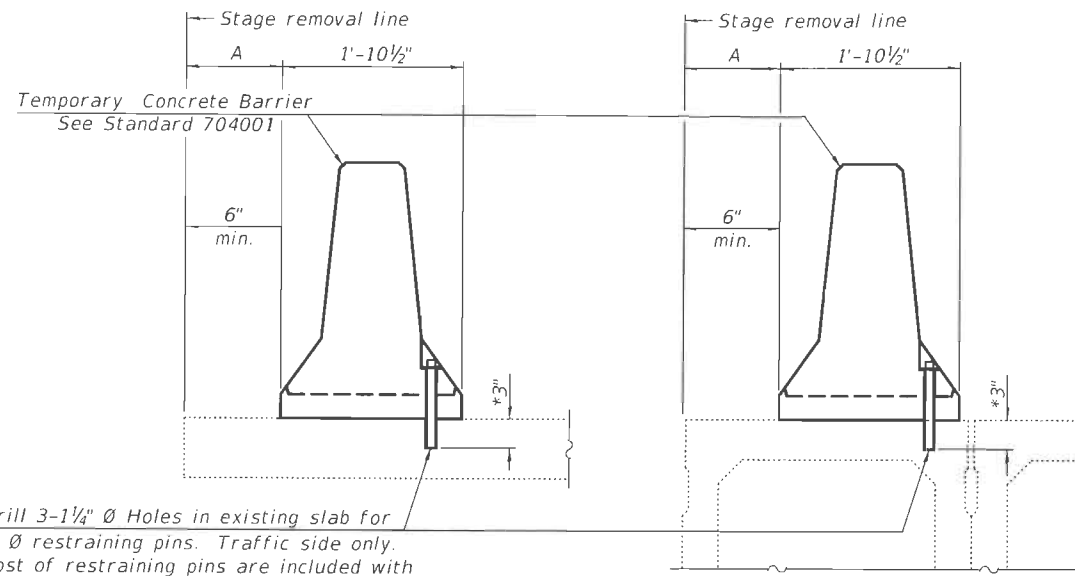
SHEET 3 OF 10 SHEETS

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

NEW SLAB OR NEW DECK BEAM

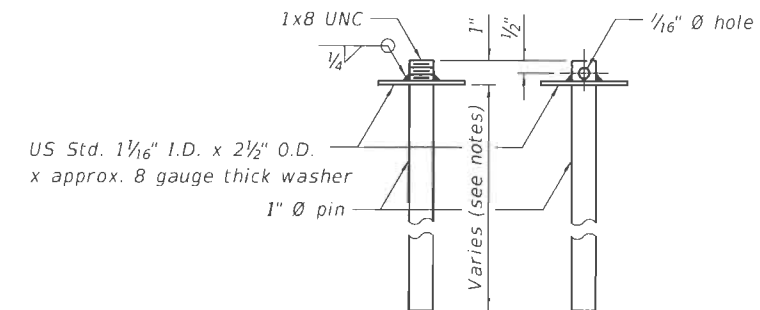


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

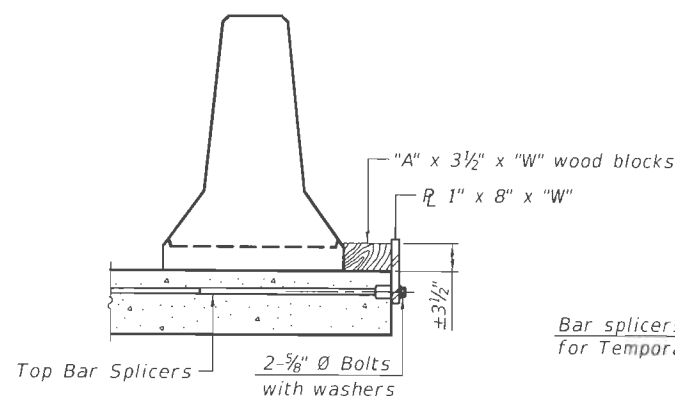
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

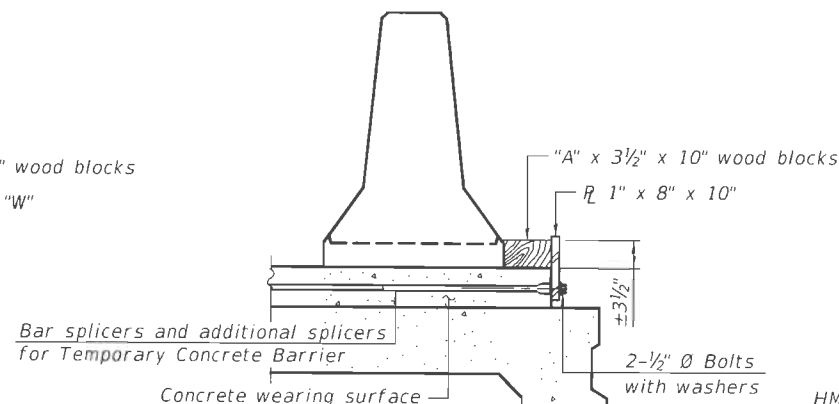


RESTRAINING PIN

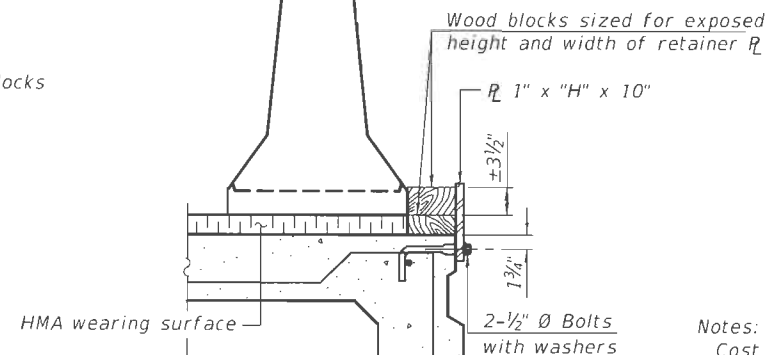
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



DETAIL I



DETAIL II

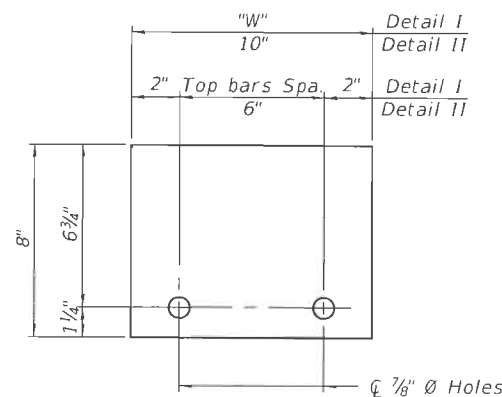


DETAIL III

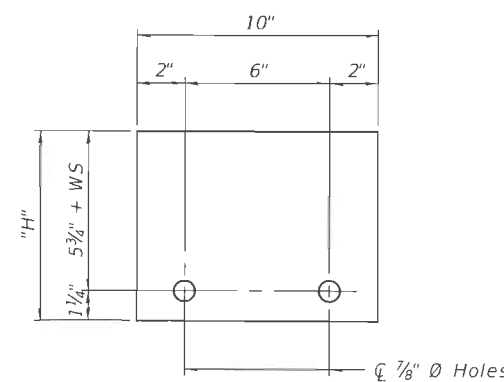
BAR SPLICER FOR #4 BAR - DETAIL III

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate $\frac{1}{2}$ of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



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



STEEL RETAINER R 1" x "H" x 10"
 (Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	DATE -	DECEMBER 10, 2021
PASSED	REVISD -	
	REVISD -	

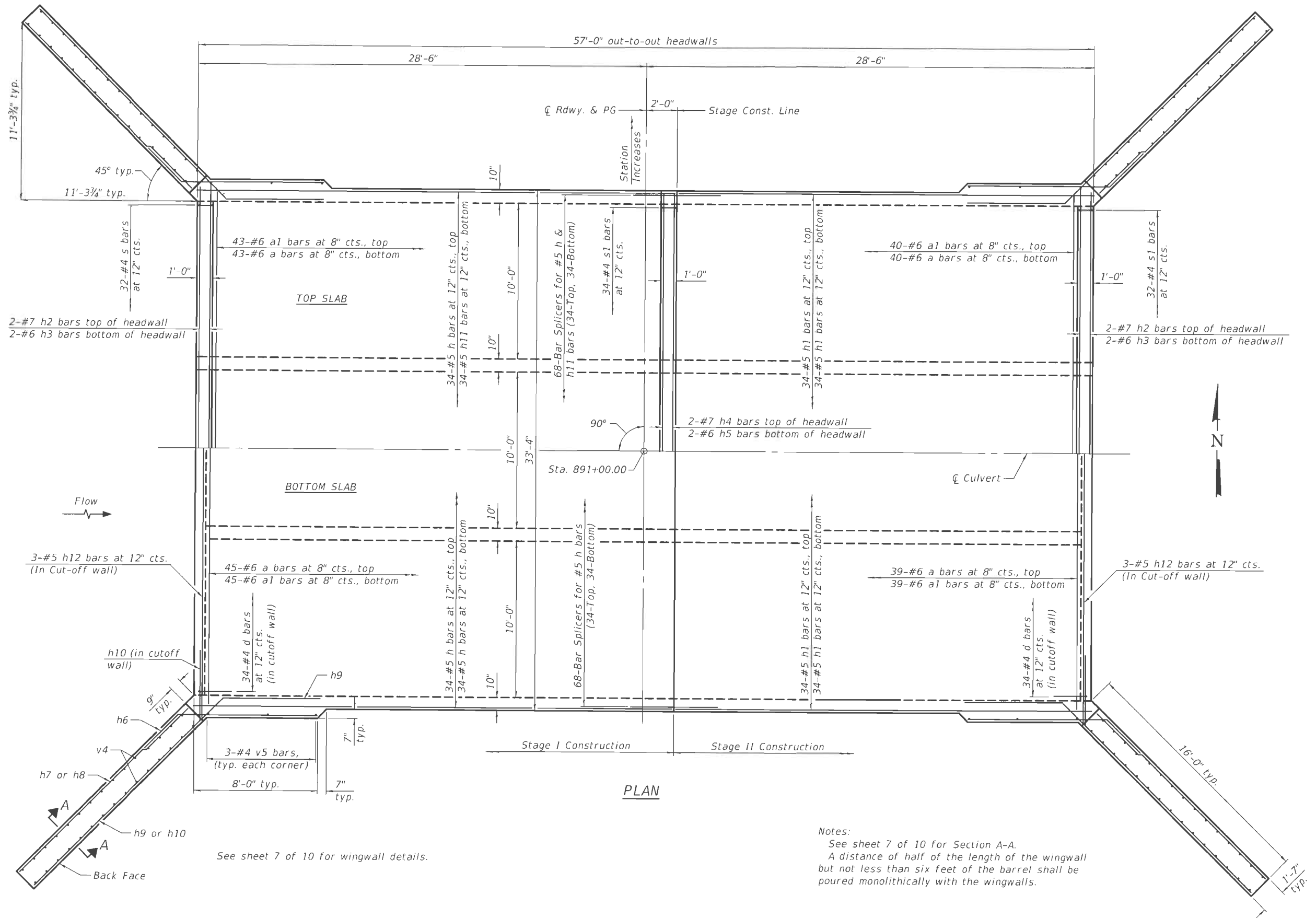
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 051-2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	19
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

SHEET 4 OF 10 SHEETS

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PLAN

Notes:
 See sheet 7 of 10 for Section A-A.
 A distance of half of the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

See sheet 7 of 10 for wingwall details.

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DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	<i>Joanne F. Joffe</i>	DATE -	DECEMBER 10, 2021
PASSED	<i>Carl Pop</i>	REVISD -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

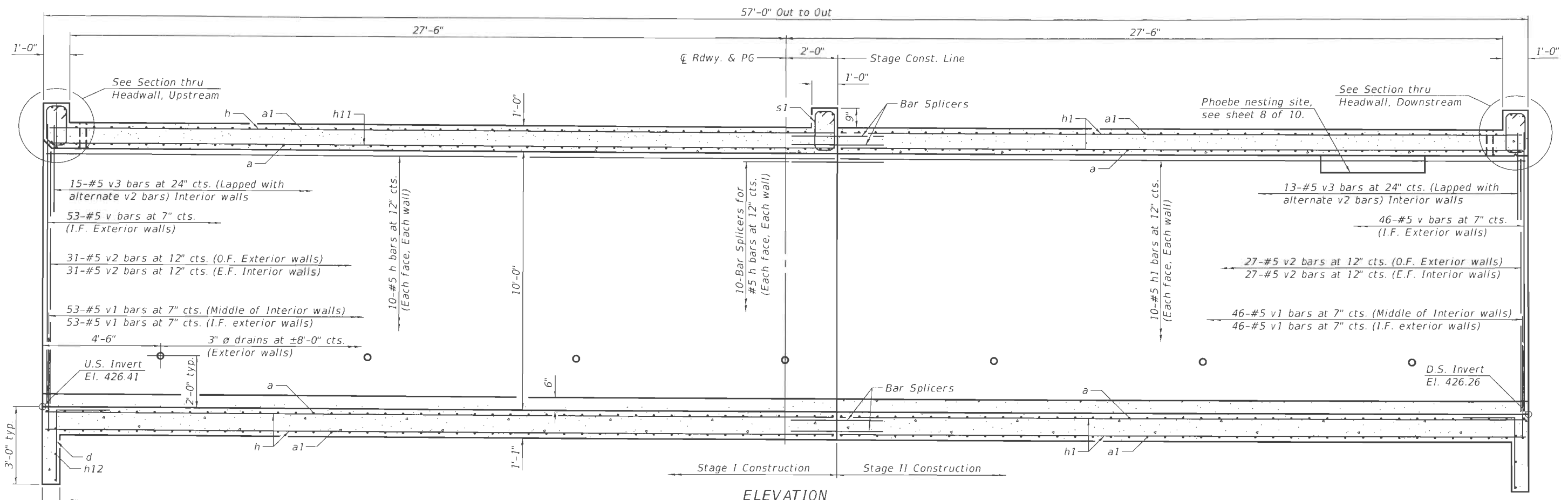
TOP & BOTTOM SLAB
 STRUCTURE NO. 051-2010

SHEET 5 OF 10 SHEETS

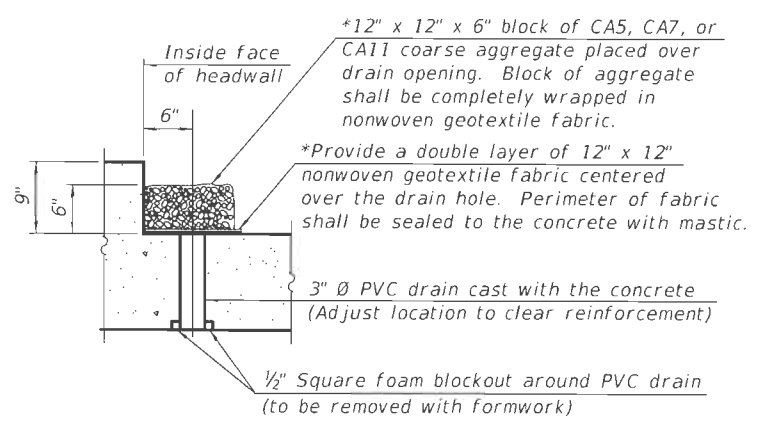
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	20
CONTRACT NO. 74860				

ILLINOIS FED. AID PROJECT

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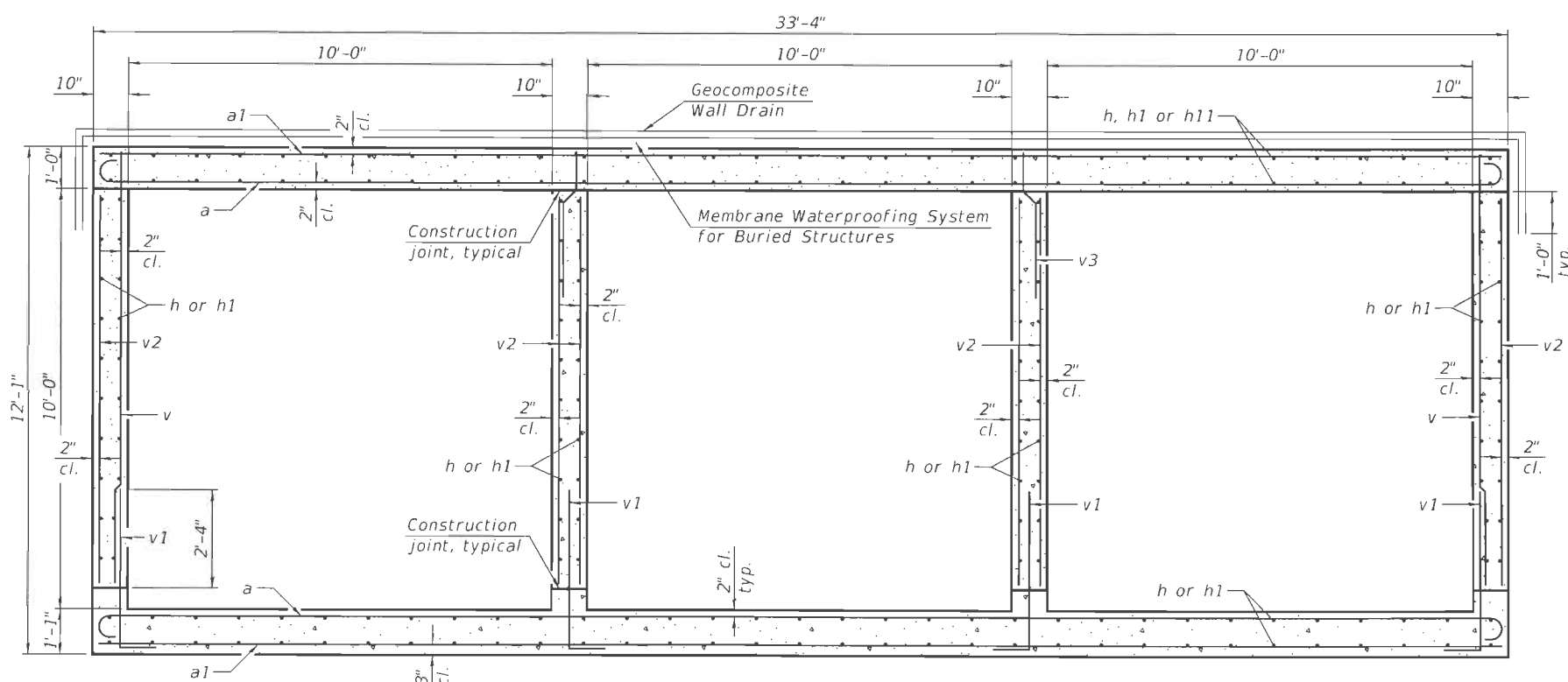
MINIMUM BAR LAP
 #5 Bar = 2'-2"



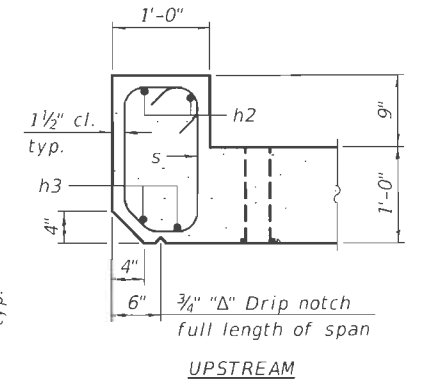
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

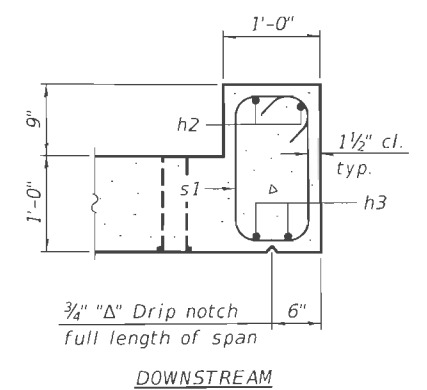
* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



SECTION THRU BARREL



UPSTREAM



DOWNSTREAM

SECTION THRU HEADWALL

DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Joanna F. Salih</i>
CHECKED - MICHAEL A. PAULIONIS	PASSED - <i>Carl Krogg</i>
DRAWN - DENNIS A. POP	
CHECKED - H.S.S./M.A.P./D.H.C.	

DATE - DECEMBER 10, 2021	REVISER -
REVISION -	REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS
 STRUCTURE NO. 051-2010

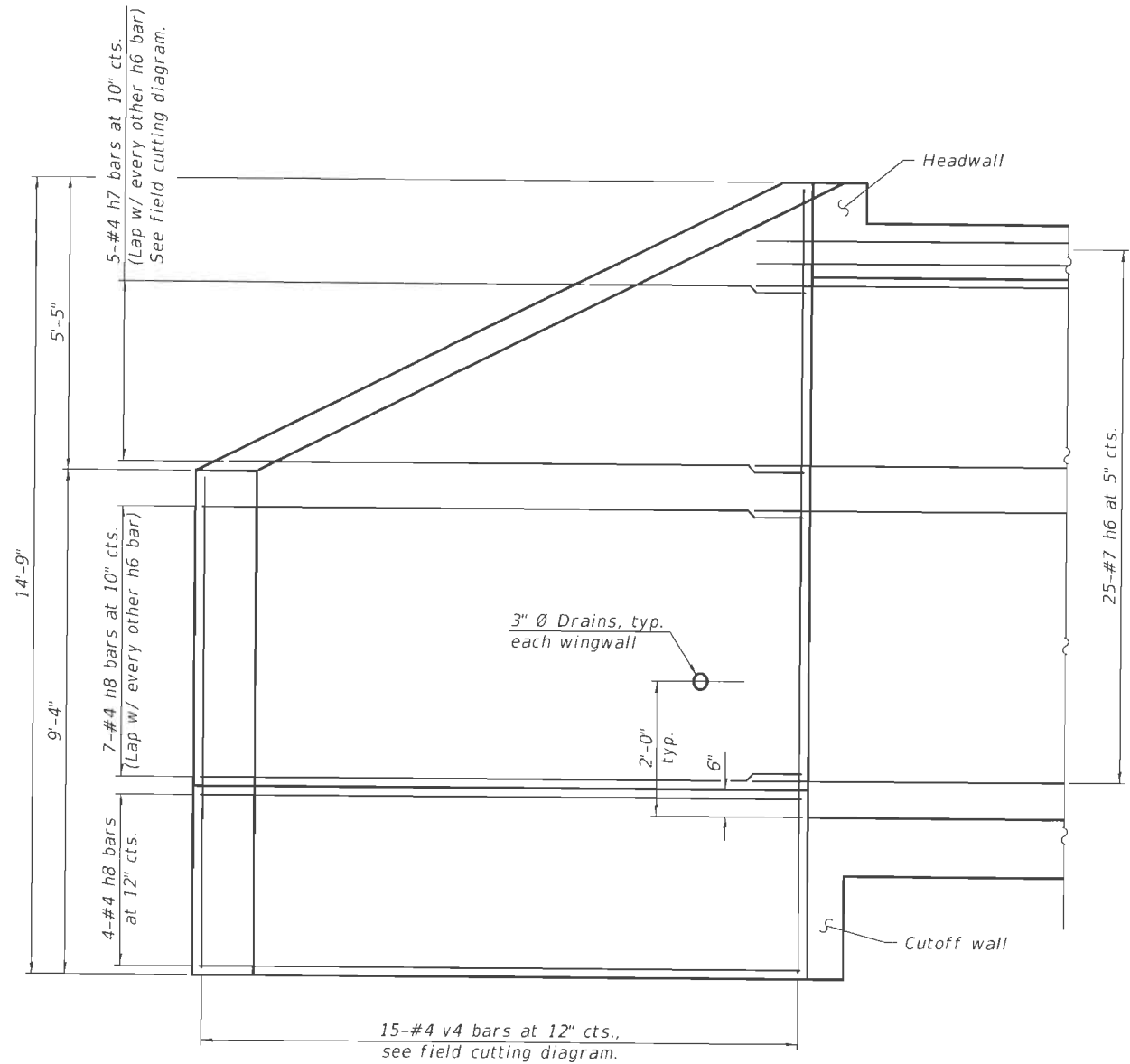
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CONTRACT NO. 74860				

SHEET 6 OF 10 SHEETS

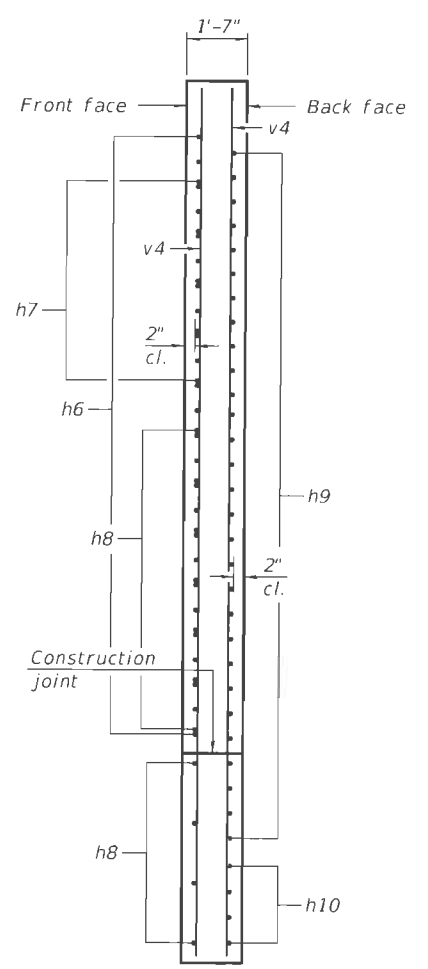
ILLINOIS FED. AID PROJECT

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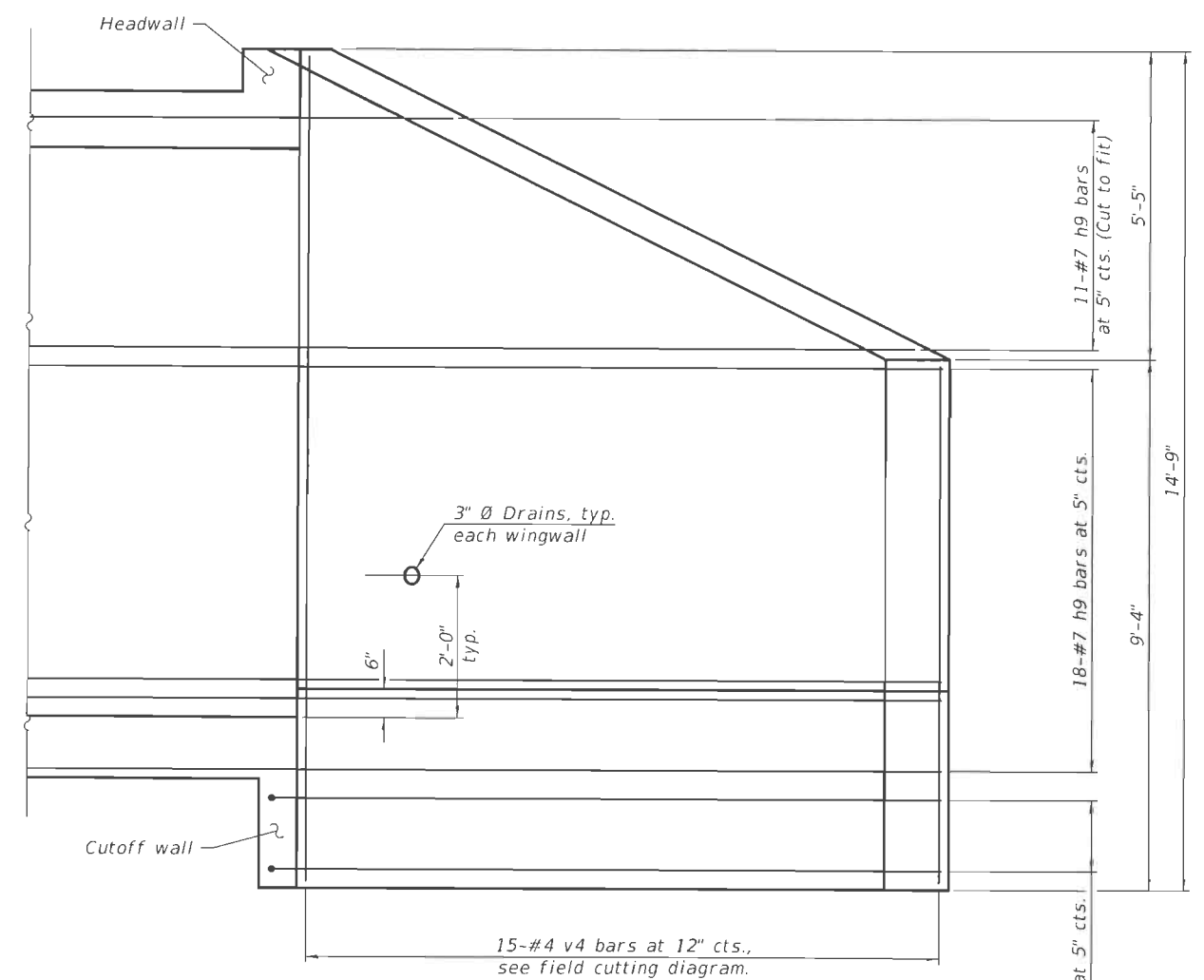
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ELEVATION
 (Showing reinforcement in the front face)



SECTION A-A



ELEVATION
 (Showing reinforcement in the back face)

DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	<i>Joanne F. Salih</i>	DATE -	DECEMBER 10, 2021
PASSED	<i>Carl Pappas</i>	REVISD -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

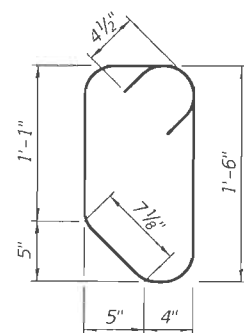
WINGWALL DETAILS
STRUCTURE NO. 051-2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	22
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

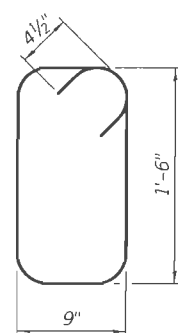
SHEET 7 OF 10 SHEETS

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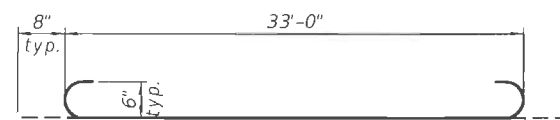
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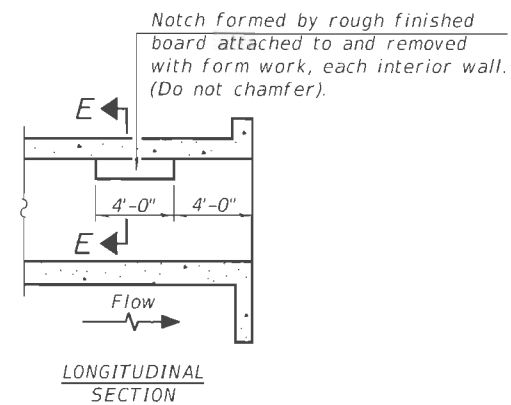
BAR s



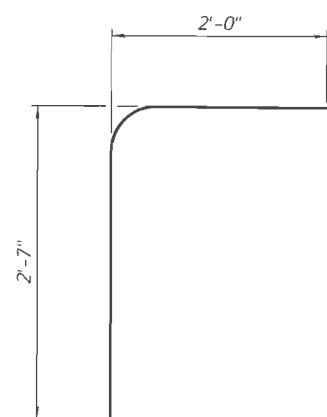
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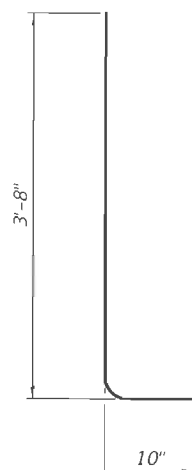
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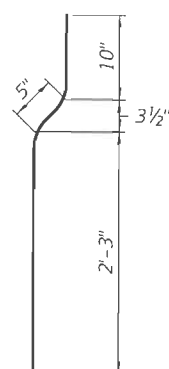
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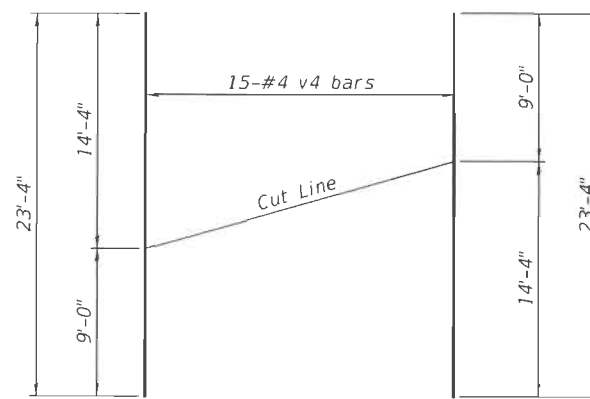
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BAR v1

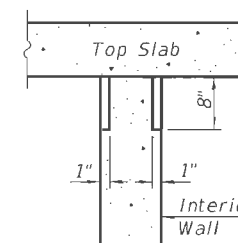


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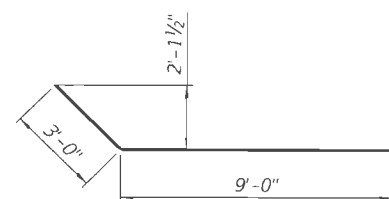
FIELD CUTTING DIAGRAM

(Order v4 bars full length. Cut as shown and use remainder of bars in opposite face of wingwall. Number of bars called out in the diagram is for one wingwall).

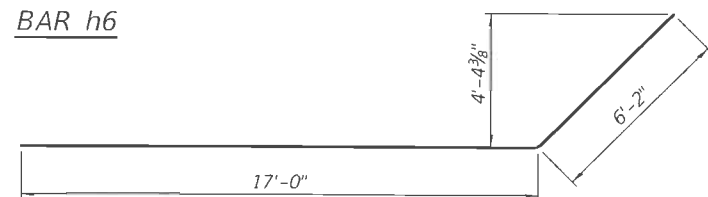


SECTION E-E

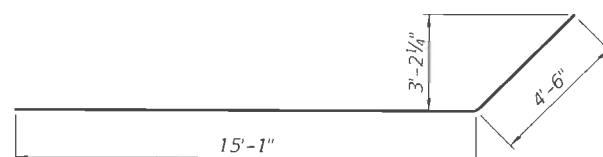
PHOEBE NESTING
 SITE DETAILS
 (Downstream End Only)



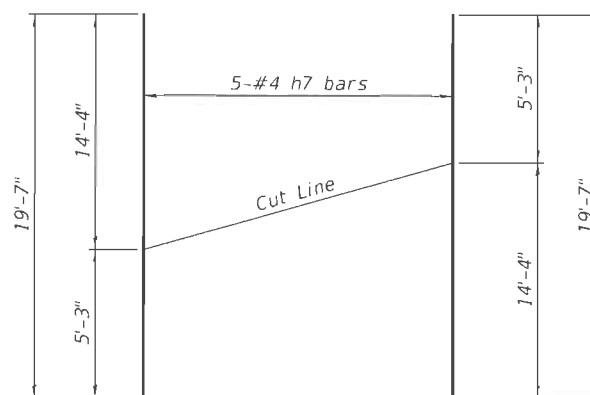
BAR h6



BAR h9



BAR h10



FIELD CUTTING DIAGRAM

(Order h7 bars full length. Cut as shown and use remainder of bars in opposite wingwall. Number of bars called out in the diagram is for two wingwalls).

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	167	#6	34'-4"	
a1	167	#6	33'-0"	
d	68	#4	4'-7"	
h	182	#5	30'-2"	
h1	216	#5	26'-2"	
h2	4	#7	33'-9"	
h3	4	#6	33'-9"	
h4	2	#7	33'-0"	
h5	2	#6	33'-0"	
h6	100	#7	12'-0"	
h7	10	#4	19'-7"	
h8	44	#4	14'-11"	
h9	116	#7	23'-2"	
h10	16	#7	19'-7"	
h11	34	#5	29'-11"	
h12	6	#5	33'-0"	
s	32	#4	5'-0"	
s1	66	#4	5'-3"	
v	198	#5	10'-2"	
v1	396	#5	4'-6"	
v2	348	#5	9'-2"	
v3	56	#5	3'-6"	
v4	60	#4	23'-4"	
v5	12	#4	10'-8"	
Concrete Box Culverts	Cu. Yd.	275.3		
Reinforcement Bars	Pound	48,700		

DESIGNED - HAMEED S. SALIH
 CHECKED - MICHAEL A. PAULIONIS
 DRAWN - DENNIS A. POP
 CHECKED - H.S.S./M.A.P./D.H.C.

EXAMINED
 PASSED

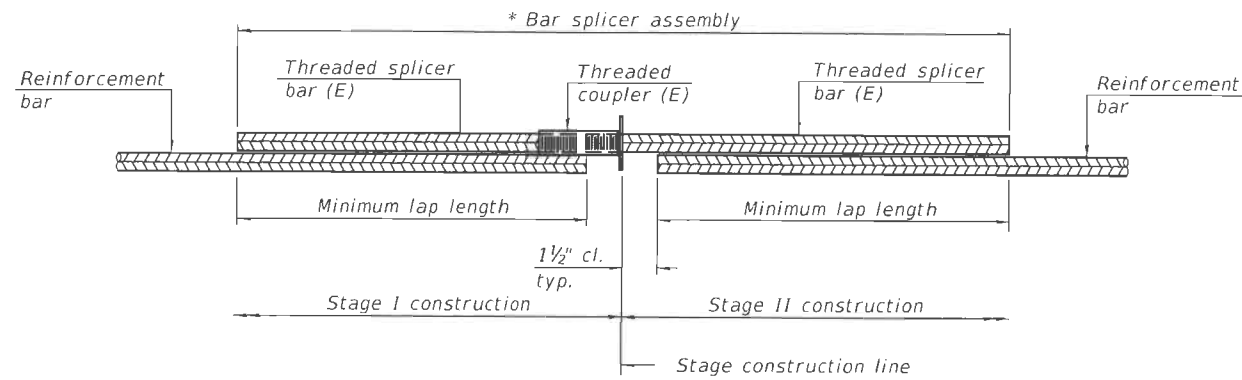
Joanne F. [Signature]
 ENGINEER OF BRIDGE DESIGN
 [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 10, 2021
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
 STRUCTURE NO. 051-2010

F.A.P. RTE. 332 SECTION (15BY)BR COUNTY LAWRENCE TOTAL SHEETS 38 SHEET NO. 23 CONTRACT NO. 74860 ILLINOIS FED. AID PROJECT

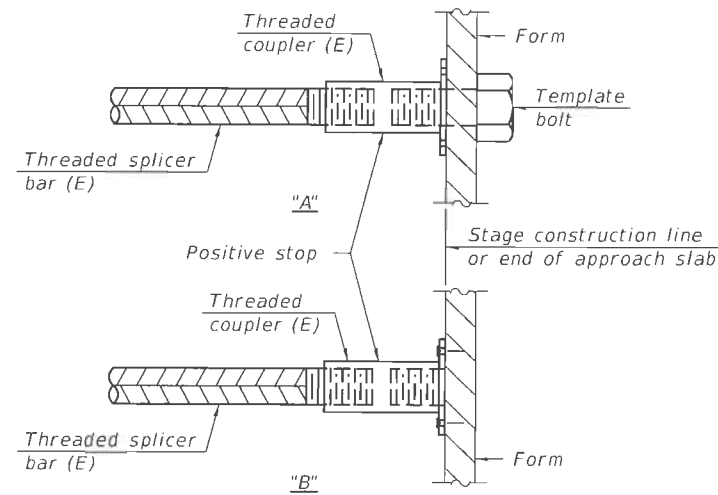


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Top slab	#5	68	2'-2"
Walls	#5	80	2'-9"
Bottom slab	#5	68	2'-2"

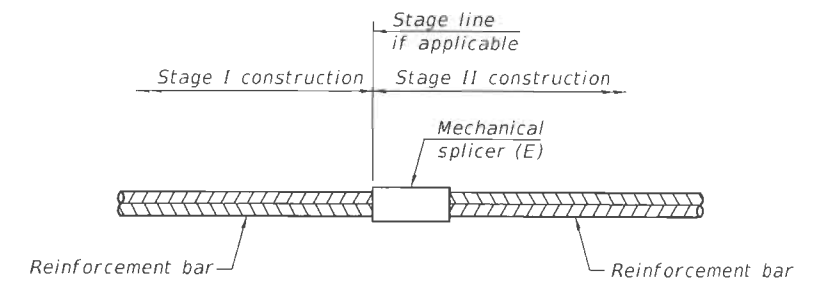


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

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

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

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

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

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BSD-1

1-1-2020

DESIGNED - HAMEED S. SALIH	EXAMINED
CHECKED - MICHAEL A. PAULIONIS	
DRAWN - DENNIS A. POP	PASSED
CHECKED - H.S.S. / M.A.P. / D.H.C.	

DATE - DECEMBER 10, 2021

 ENGINEER OF BRIDGES AND STRUCTURES

REVISD -
REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 051-2010**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	24
CONTRACT NO. 74860				

SHEET 9 OF 10 SHEETS

ILLINOIS FED. AID PROJECT

