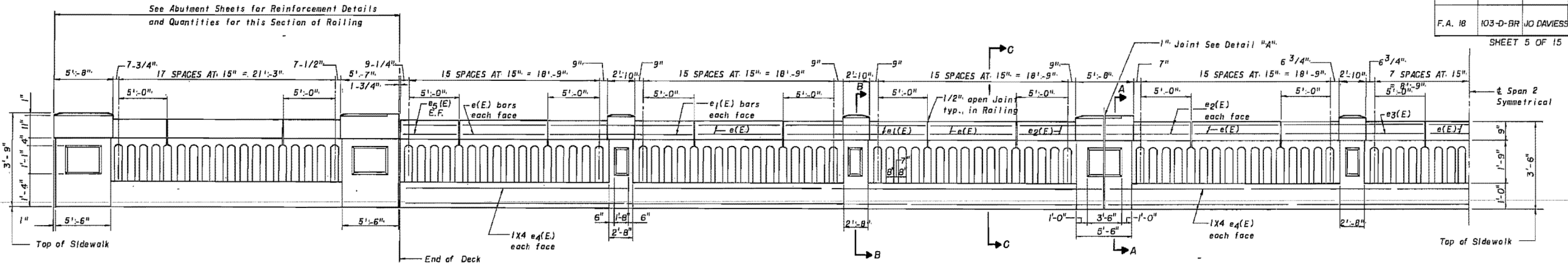


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 18	103-D-BR	JO DAVIESS	27	13

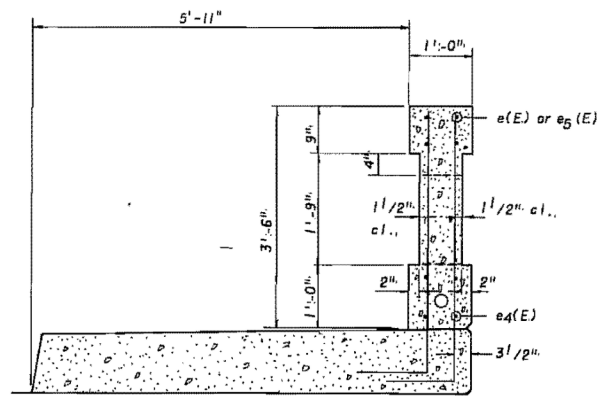
SHEET 5 OF 15



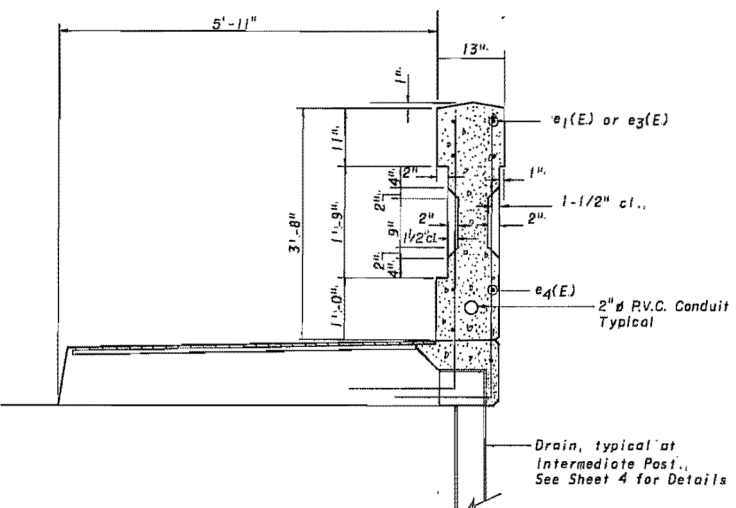
RAILING - EXTERIOR HALF ELEVATION

NOTE: 3-5/8"φ X 24" bolts (or rods with nut at bottom) shall be placed to match pattern for existing poles. All material shall be galv., per AASHTO M232. Provide 2 washers and 2 nuts at top - set thread after installation.

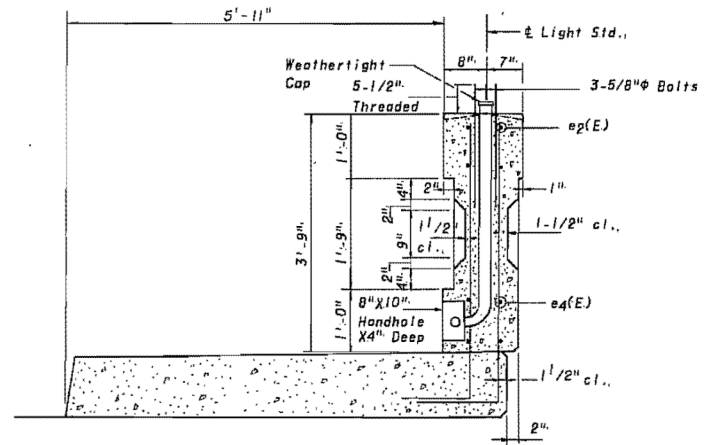
Cast of 5/8"φ bolts, nuts, 8 washers, 2"φ PVC conduit (schedule 40) & required fittings, and 8"X10" handholes shall be considered incidental to Class X Concrete.



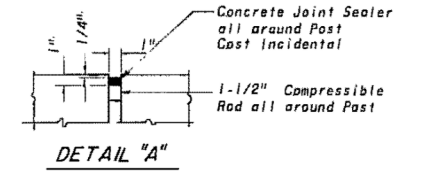
SECTION C-C THROUGH RAIL



SECTION B-B AT INTERMEDIATE POST



SECTION A-A AT LIGHT STANDARD POST

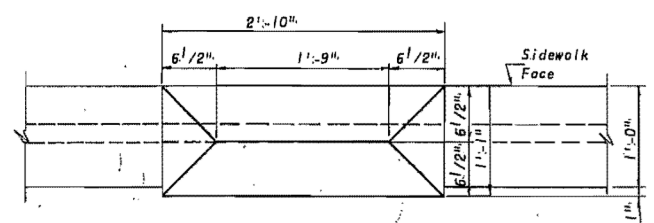


DETAIL "A"

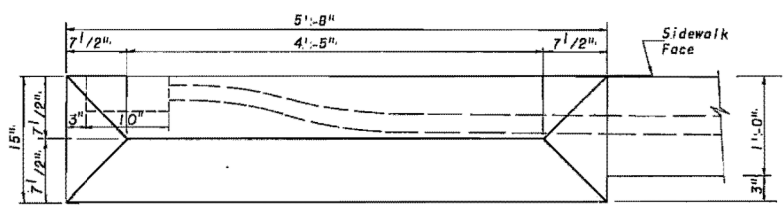
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e(E)	72	#4	8'-5"	—
e1(E)	32	#4	14'-0"	—
e2(E)	32	#4	8'-1"	—
e3(E)	16	#4	13'-8"	—
e4(E)	96	#4	18'-4"	—
e5(E)	16	#4	5'-6"	—

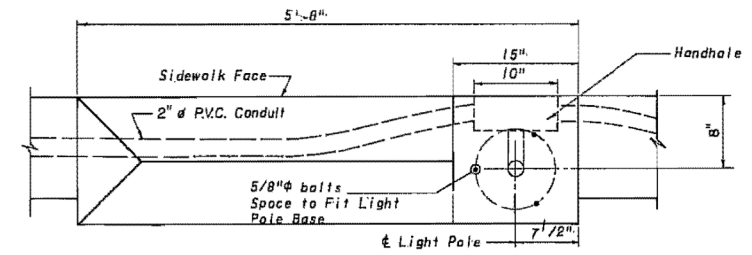
Class X Concrete	C. Y.	39.9
Reinf. Bars Epoxy Coat	Lbs.	2260



TOP VIEW AT INTERMEDIATE POST



TOP VIEW AT END POST

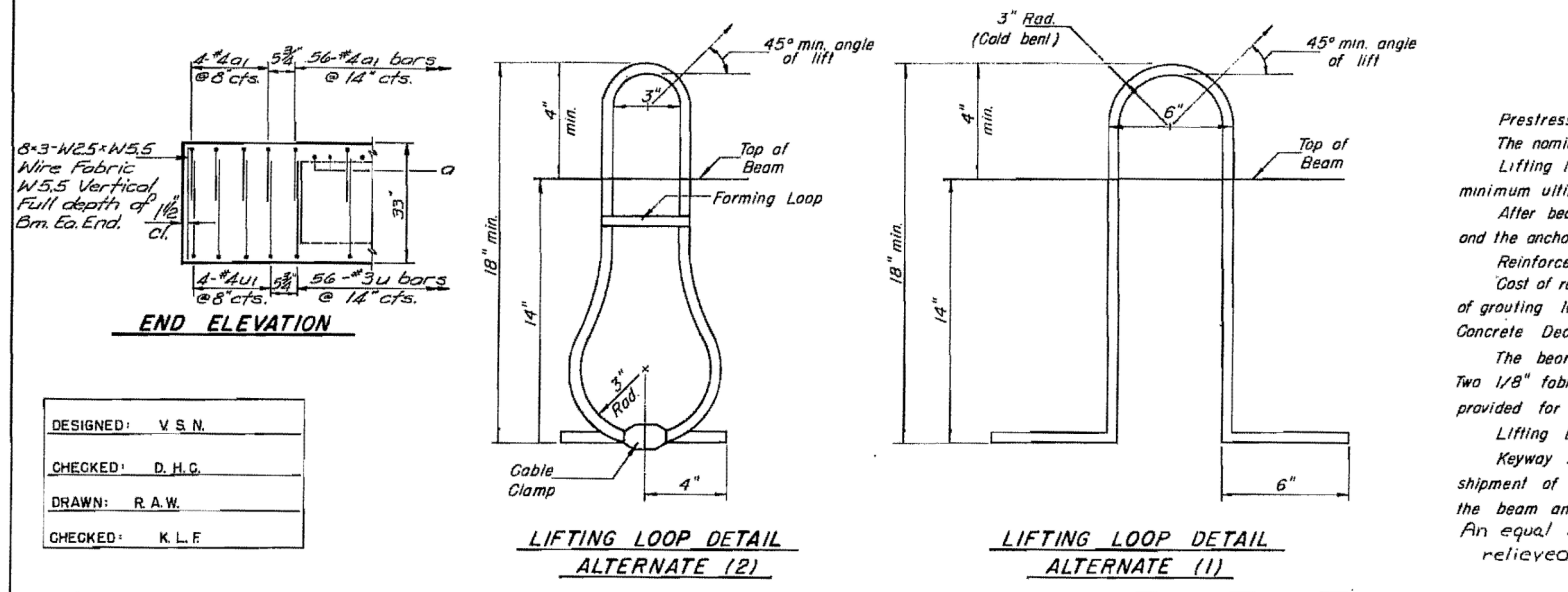
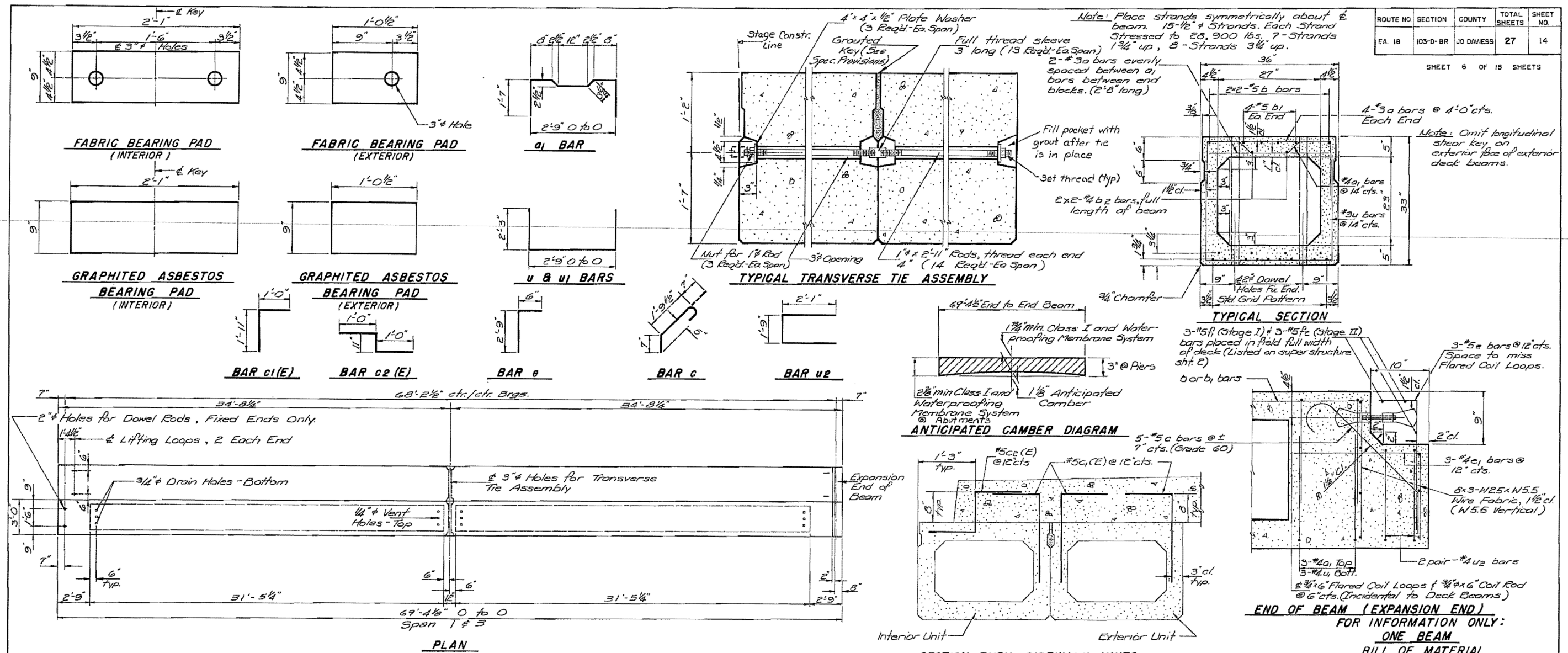


TOP VIEW AT LIGHT POLE

DESIGNED:	D.H.C.
CHECKED:	K.L.F.
DRAWN:	K.D.J.
CHECKED:	K.L.F.

RAILING
 F.A. RTE. 18 OVER APPLE RIVER
 SECTION 103-D-BR
 JO DAVIESS COUNTY
 STATION 259+08.20

FOR INFORMATION ONLY



SECTION THRU SIDEWALK UNITS
 NOTE: Vary spacing of C1(E) and C2(E) bars at drain locations to provide minimum 1'-2" either side of drain. See sheet 3 for drain spacing.

NOTES
 Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq in. Lifting loops shall be 3/4" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3-1/2" - 270 ksi strands. After beams have been erected, holes for the dowel anchors shall be drilled into the substructure (1 1/4") and the anchor dowels shall be grouted in place & cured 24 hrs (min) prior to grouting keyways. Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams." The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Lifting Loops shall be burned off after deck beams have been erected. Keyway surfaces shall be cleaned to remove oil or other bond breaking material prior to shipment of beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. An equal substitution of low-relaxation strands for the stress-relieved strands will be permitted.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d	110	#3	2'-8"	
o1	64	#4	6'-1"	
d	4	#5	35'-6"	
d1	8	#5	13'-10"	
d2	4	#4	35'-6"	
c	8	#5	3'-0"	
c1(E)	69	#5	2'-11"	
c2(E)	69	#5	2'-11"	
e	3	#5	3'-3"	
e1	3	#4	2'-6"	
u	56	#3	7'-3"	
u1	7	#4	7'-3"	
u2	4	#4	5'-11"	
u3	4	#4	5'-11"	
CLASS X CONCRETE CU YD 11.2				
REINFORCEMENT BARS POUND 950				
REINFORCEMENT BARS (E) POUND 420				
WEIGHT OF BEAM POUND 45,878				

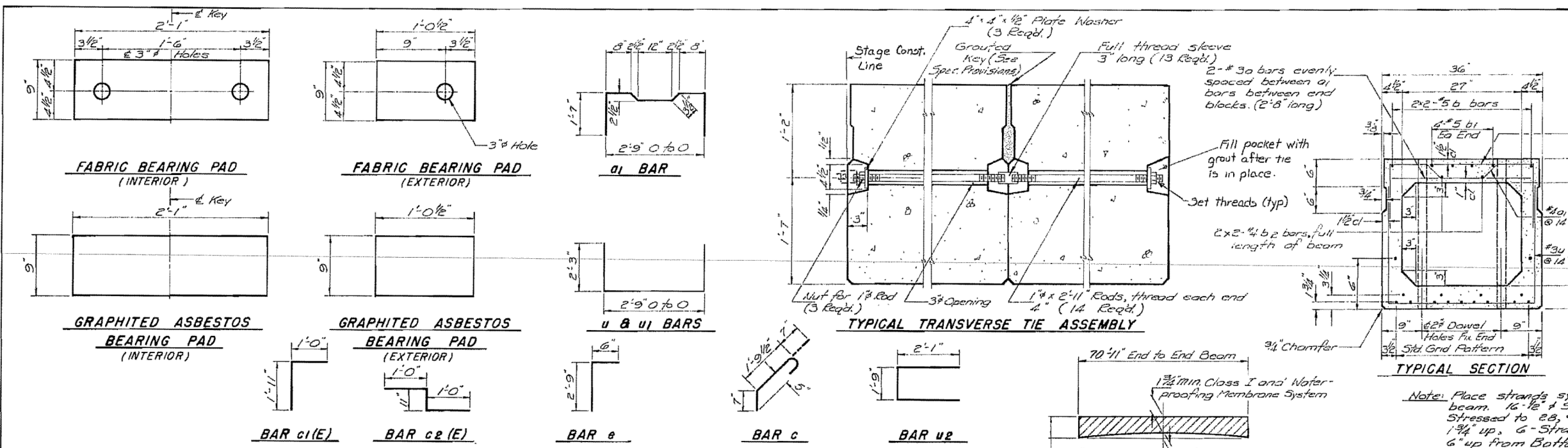
* BARS C1(E) & C2(E) REQUIRED FOR INTERIOR SIDEWALK UNITS.
 BARS DESIGNATED (E) ARE TO BE EPOXY COATED. SEE SPECIAL PROVISIONS.
 † BARS C, e, B1 & U2 REQUIRED FOR EXPANSION END OF BEAM ONLY.
 ** BAR C1(E) REQUIRED FOR EXTERIOR SIDEWALK UNITS.

SPAN 1 & 3
DETAILS PRECAST PRESTRESSED CONCRETE DECK BEAMS
 F.A. RTE. 18 OVER APPLE RIVER
 SECTION 103-D-BR
 JO DAVIESS COUNTY
 STATION 259+08.20

DESIGNED: V.S.N.
 CHECKED: D.H.C.
 DRAWN: R.A.W.
 CHECKED: K.L.F.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 18	103-D-BR	JO DAVIESS	27	15

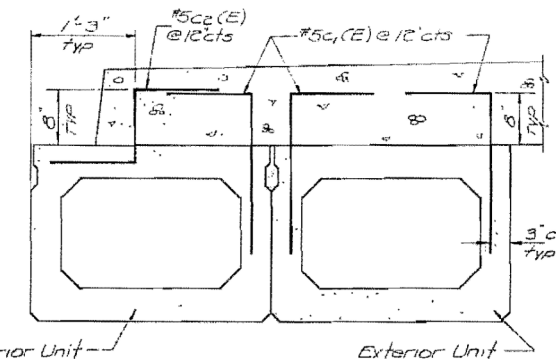
SHEET 7 OF 15 SHEETS



Note: Omit longitudinal shear key on exterior face of exterior deck beams.

Note: Place strands symmetrically about \bar{x} beam. 16-1/2" \pm 5 strands. Each strand stressed to 28,900 lbs. 5-Strands 1-3/4" up, 6-Strands 3/4" up, 2-Strands 6" up from bottom of beam.

ANTICIPATED CAMBER DIAGRAM



SECTION THRU SIDEWALK UNITS

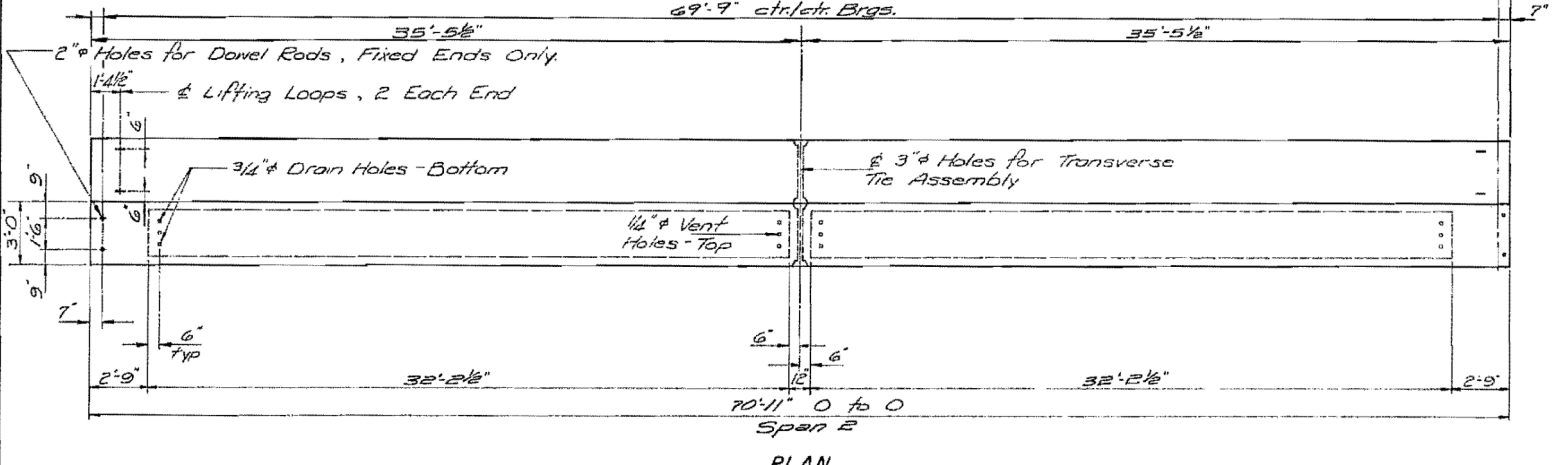
NOTE: Vary spacing of C1(E) and C2(E) bars at drain locations to provide minimum 1'-2" either side of \bar{x} drain. See sheet 3 for \bar{x} drain spacing.

NOTES

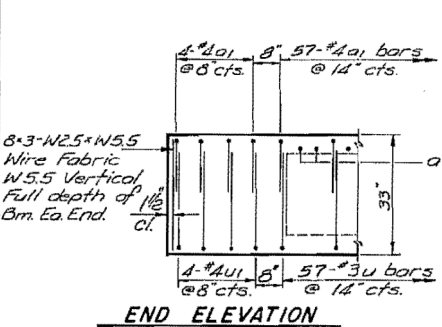
Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq in. Lifting loops shall be 3/4" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3-1/2" ϕ - 270 ksi strands. After beams have been erected, holes for the dowel anchors shall be drilled into the substructure (1 1/4" ϕ) and the anchor dowels shall be grouted in place & cured 24 hrs (min) prior to grouting keyways. Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. ** BAR C1(E) REQUIRED FOR EXTERIOR SIDEWALK UNITS. BARS DESIGNATED (E) ARE TO BE EPOXY COATED. SEE SPECIAL PROVISIONS.

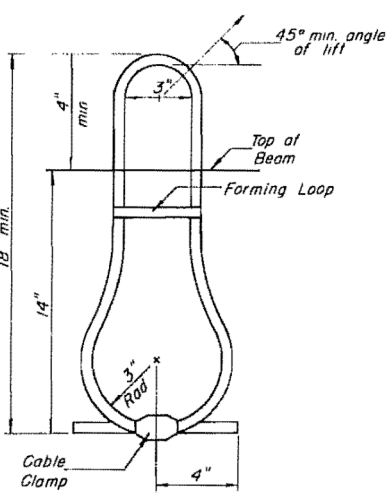
Lifting Loops shall be burned off after deck beams have been erected. Keyway surfaces shall be cleaned to remove oil or other bond breaking material prior to shipment of beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. An equal substitution of low-relaxation strands for the stress-relieved strands will be permitted.



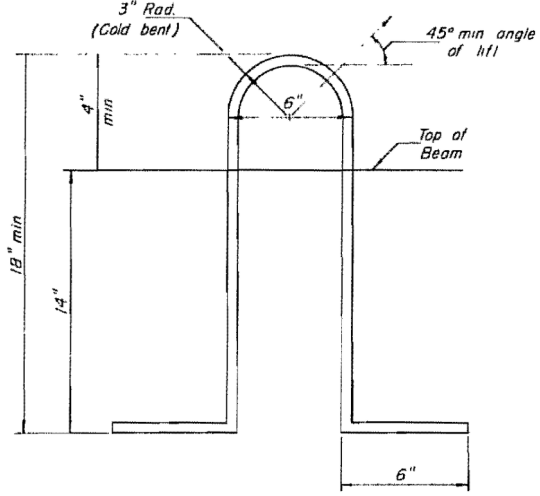
PLAN



END ELEVATION



LIFTING LOOP DETAIL ALTERNATE (2)



LIFTING LOOP DETAIL ALTERNATE (1)

DESIGNED:	V. S. N.
CHECKED:	D. H. G.
DRAWN:	R. A. W.
CHECKED:	K. L. F.

For Information Only: ONE BEAM BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
O	12	#3	2'-8"	
O1	68	#4	6'-1"	
b	4	#5	38'-3"	
D1	8	#5	14'-3"	
D2	4	#4	38'-3"	
C1(E)	71*	#5	2'-11"	
C2(E)	71*	#5	2'-11"	
U	57	#3	7'-3"	LJ
U1	8	#4	7'-3"	LJ
CLASS X CONCRETE		CU YD	11.5	
REINFORCEMENT BARS		POUND	840	
REINFORCEMENT BARS (E)		POUND	430	
WEIGHT OF BEAM		POUND	46,590	

* BARS C1(E) & C2(E) REQUIRED FOR INTERIOR SIDEWALK UNITS. BARS DESIGNATED (E) ARE TO BE EPOXY COATED. SEE SPECIAL PROVISIONS. ** BAR C1(E) REQUIRED FOR EXTERIOR SIDEWALK UNITS.

SPAN 2 DETAILS PRECAST PRESTRESSED CONCRETE DECK BEAMS

FA. RTE. 18 OVER APPLE RIVER SECTION 103-D-BR JO DAVIESS COUNTY STATION 259+08.20

FOR INFORMATION ONLY



USER NAME = dheber1ing	DESIGNED -	REVISED -
FILE NAME = 0430028-64E08.dgn	CHECKED -	REVISED -
PLOT SCALE = 0:2.00000 '1' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2013	CHECKED -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

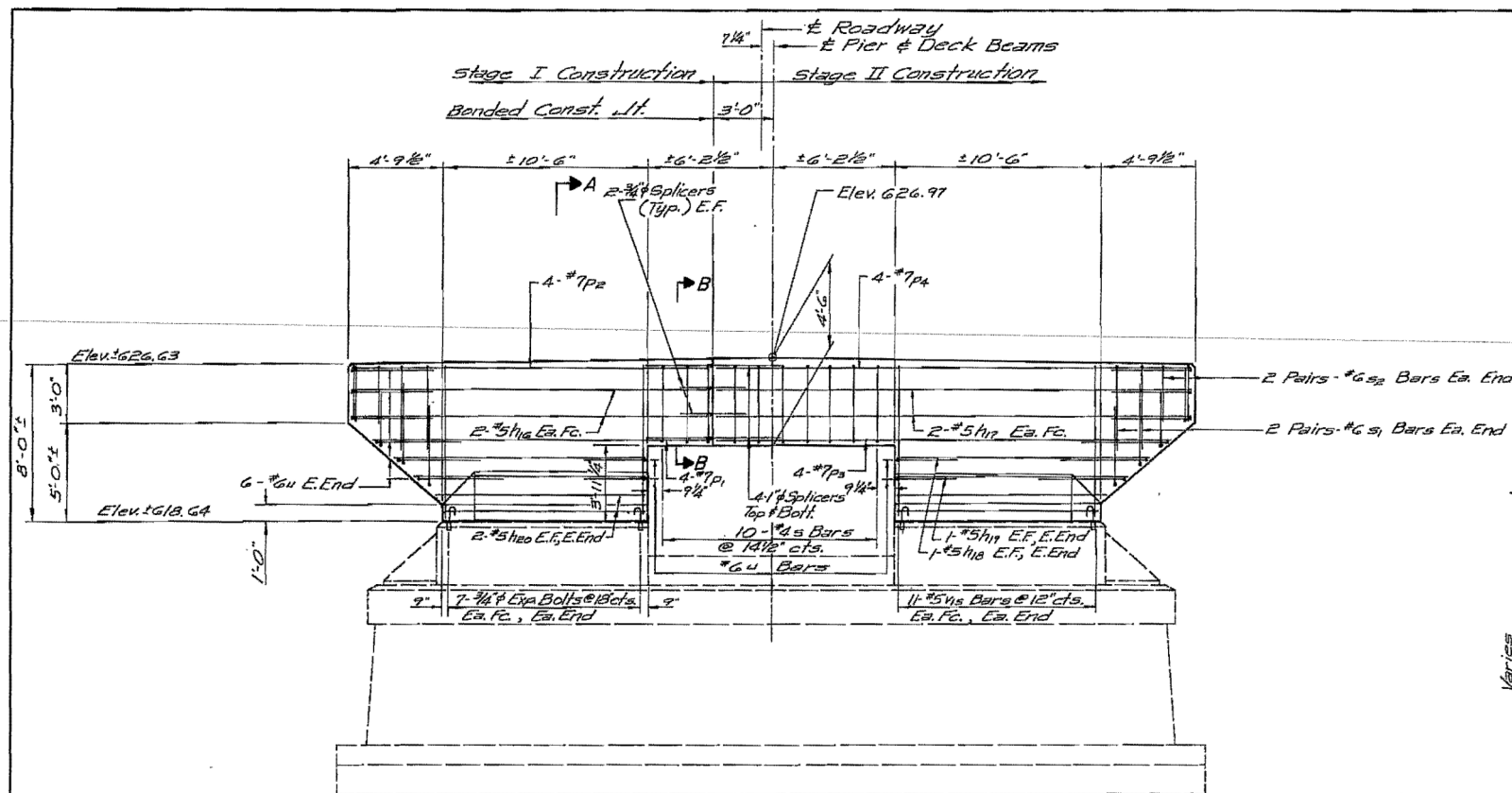
EXISTING PLANS STRUCTURE NO. 043-0080 SHEET NO. 53 OF 60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	103
CONTRACT NO. 64E08				

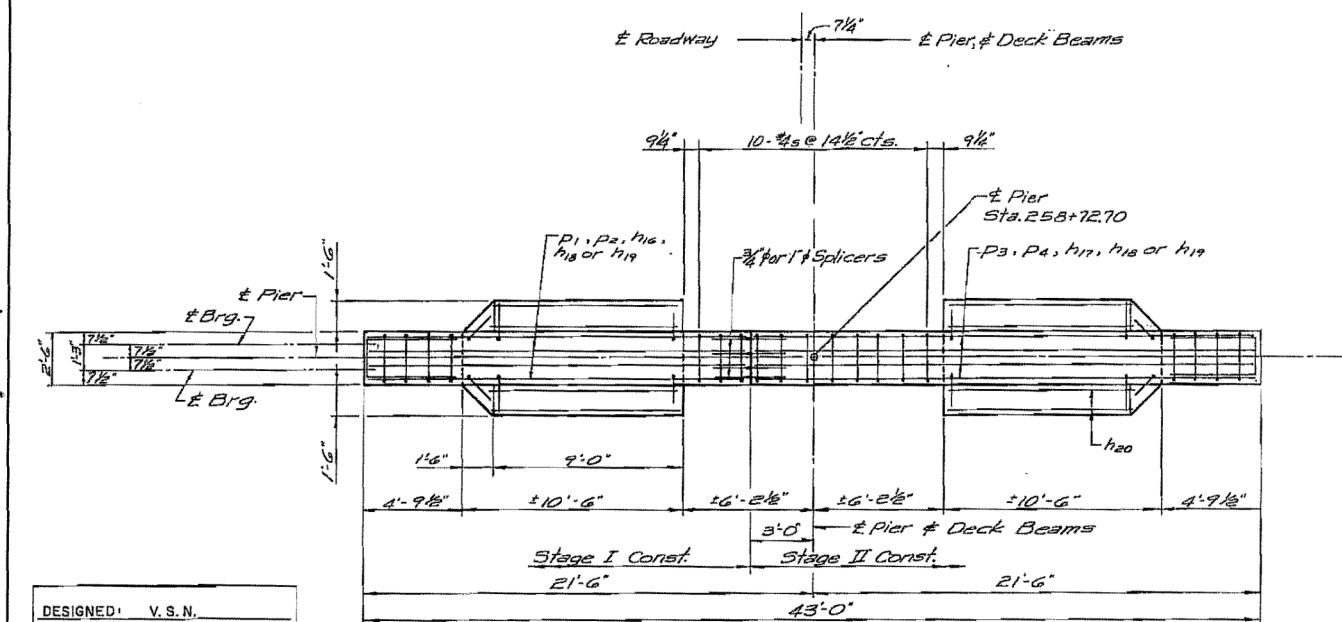
ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EA. 18	103-D-BR	JO DAVIESS	27	16

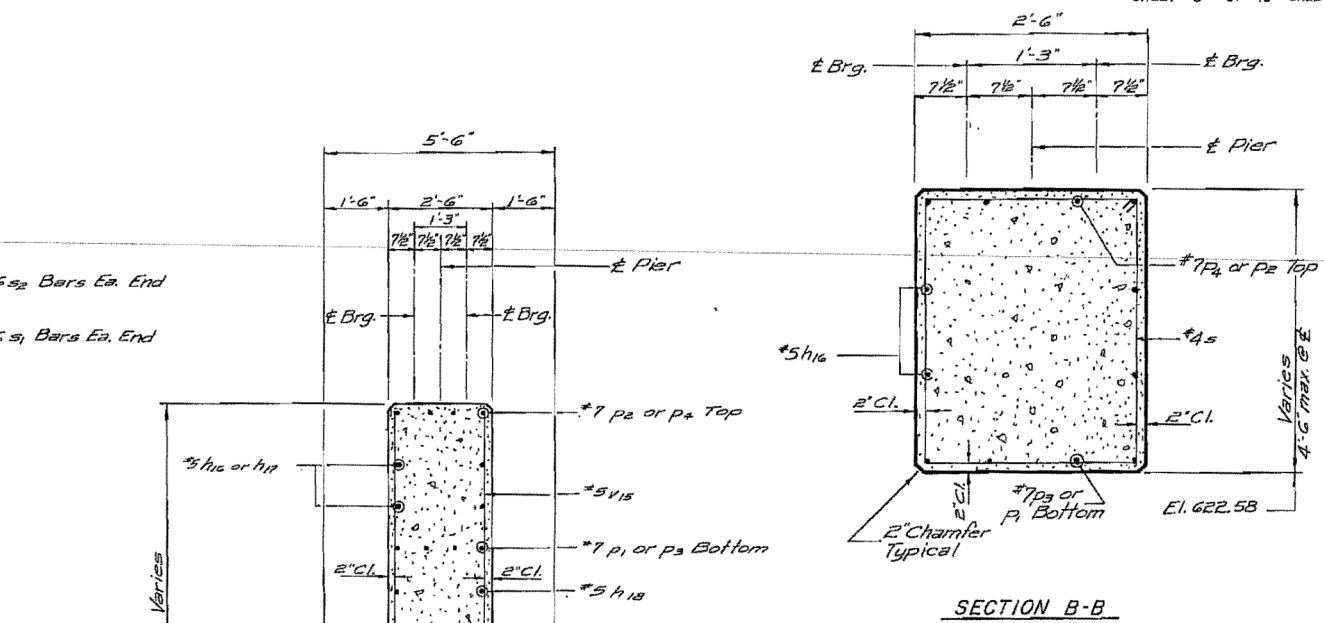
SHEET 8 OF 16 SHEETS



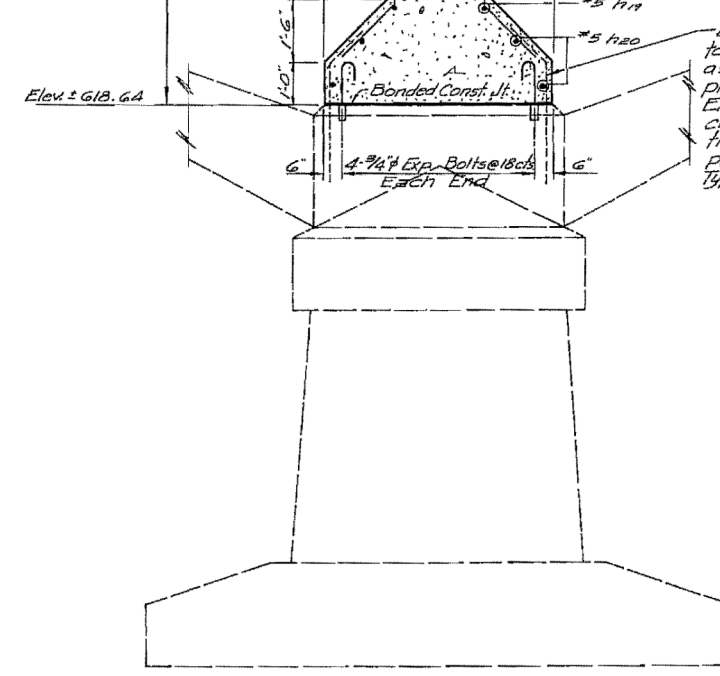
ELEVATION



PLAN



SECTION B-B



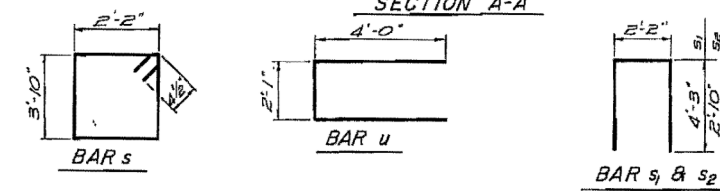
SECTION A-A

Existing #4 Dowels @ 12" cts. to remain in place to act as tie between existing and proposed construction. Existing dowels to be completely exposed and thoroughly cleaned before placement of new concrete. Typical each face.

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h16	#5	18'-2"	□
h17	#5	24'-2"	□
h18	#5	12'-10"	□
h19	#5	11'-10"	□
h20	#5	8'-9"	□
P1	#7	17'-0"	□
P2	#7	18'-2"	□
P3	#7	23'-0"	□
P4	#7	24'-2"	□
s	#4	15'-11"	□
s1	#6	13'-8"	□
s2	#6	10'-10"	□
u	#6	13'-1"	□
v15	#5	7'-6"	□
Class X Concrete		C.Y.	29.2
Reinforcement Bars		Lbs.	2090
Exp. Bolts #4		Each	52
Concrete Removal		C.Y.	27.3

Cost of #4 #1' Splicers is incidental to reinforcement. See sheet 12 for Splicer Details.



DESIGNED: V.S.N.
 CHECKED: D.H.C.
 DRAWN: R.A.W.
 CHECKED: K.L.F.

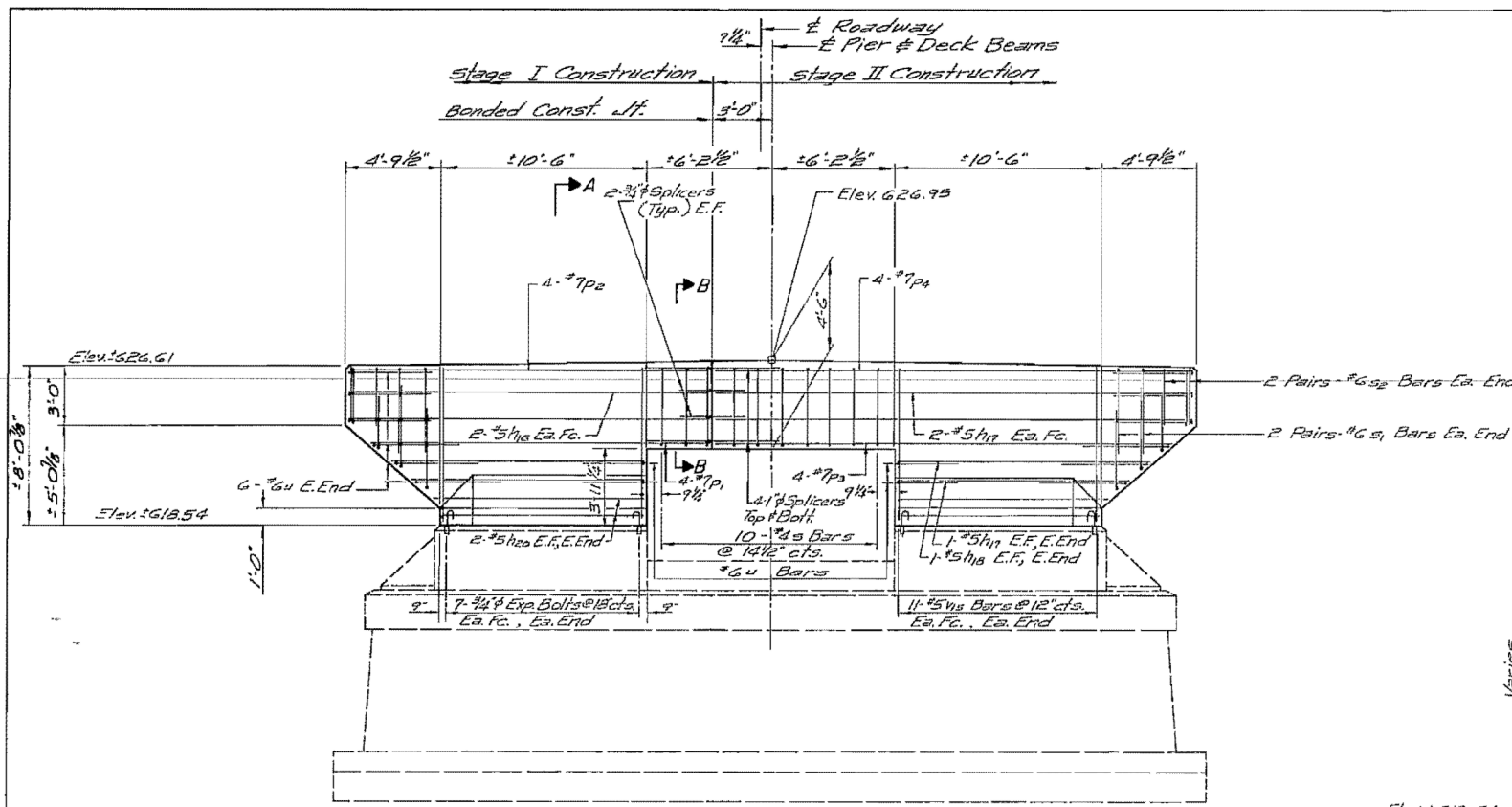
PIER NO. 1
 F.A. RTE. 18 OVER APPLE RIVER.
 SECTION 103-D-BR
 JO DAVIESS COUNTY
 STATION 259+08.20

FOR INFORMATION ONLY

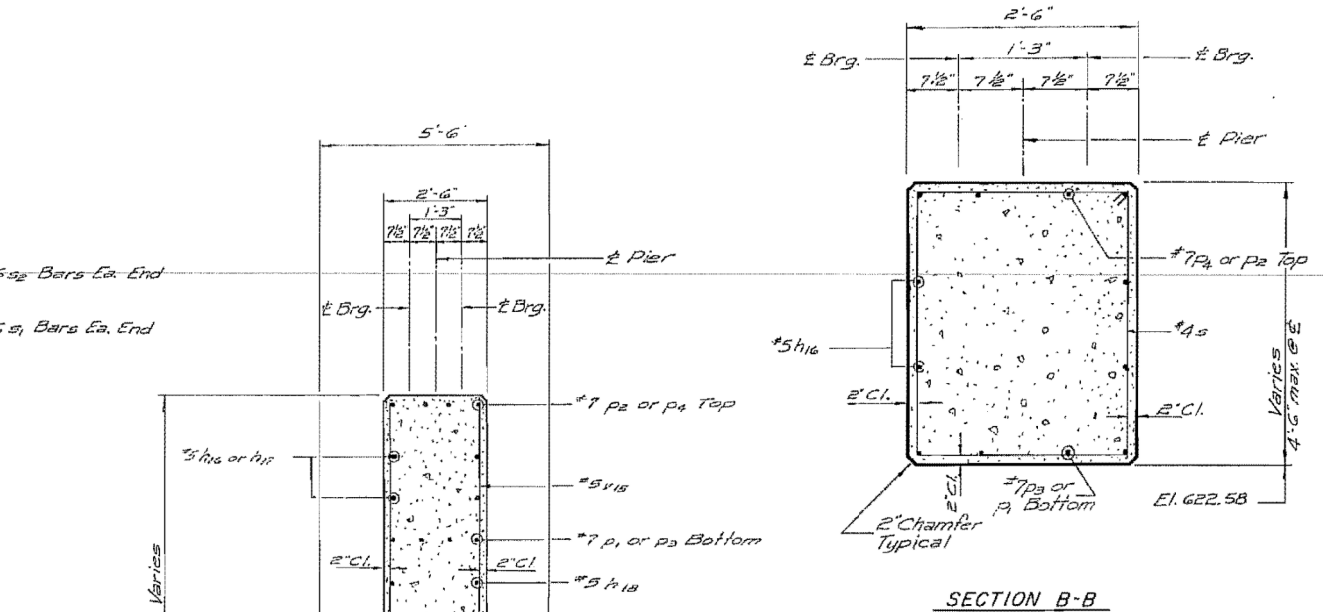
I. M. A. G. NO. 1930 / 0058

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 18	103-D-BR	JO DAVIESS	27	17

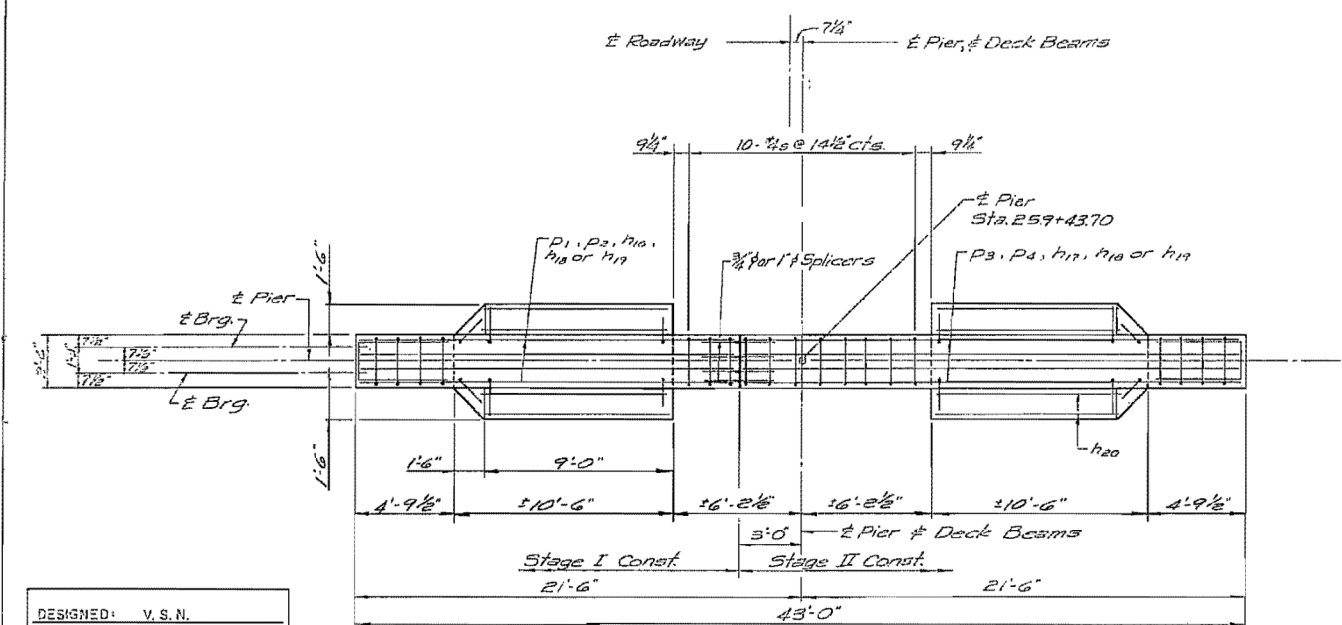
SHEET 9 OF 15 SHEETS



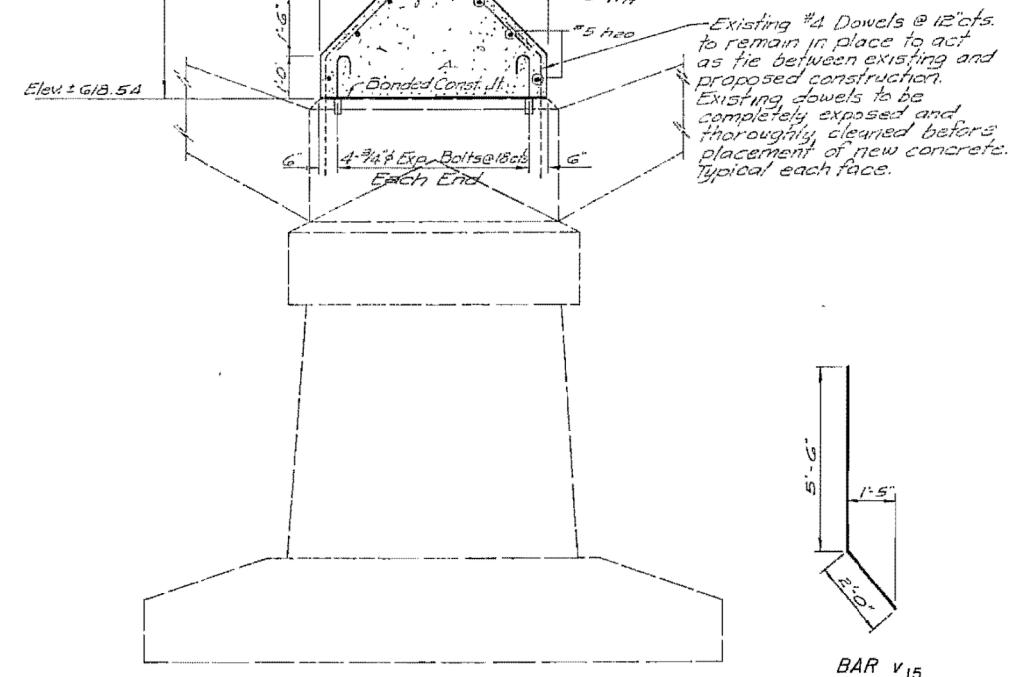
ELEVATION



SECTION B-B



PLAN



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h16	4	#5	18'-2"	—
h17	4	#5	24'-2"	—
h18	4	#5	12'-10"	—
h19	4	#5	11'-10"	—
h20	3	#5	8'-9"	—
P1	4	#7	17'-0"	—
P2	4	#7	18'-2"	—
P3	4	#7	23'-0"	—
P4	4	#7	24'-2"	—
S	10	#4	15'-11"	□
S1	8	#6	13'-8"	□
S2	8	#6	10'-10"	□
U	16	#6	13'-1"	—
V16	44	#5	7'-6"	—
Class X Concrete		C.Y.	29.2	
Reinforcement Bars		Lbs.	2090	
Exp. Bolts 3/4"		Each	32	
Concrete Removal		C.Y.	27.3	

Existing #4 Dowels @ 12' cts. to remain in place to act as tie between existing and proposed construction. Existing dowels to be completely exposed and thoroughly cleaned before placement of new concrete. Typical each face.

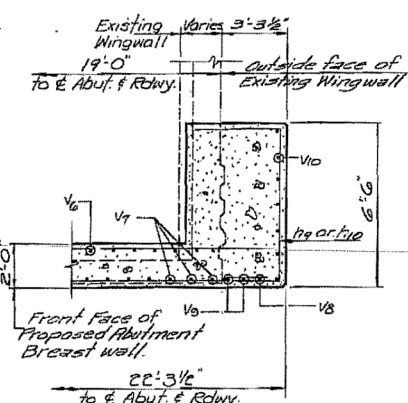
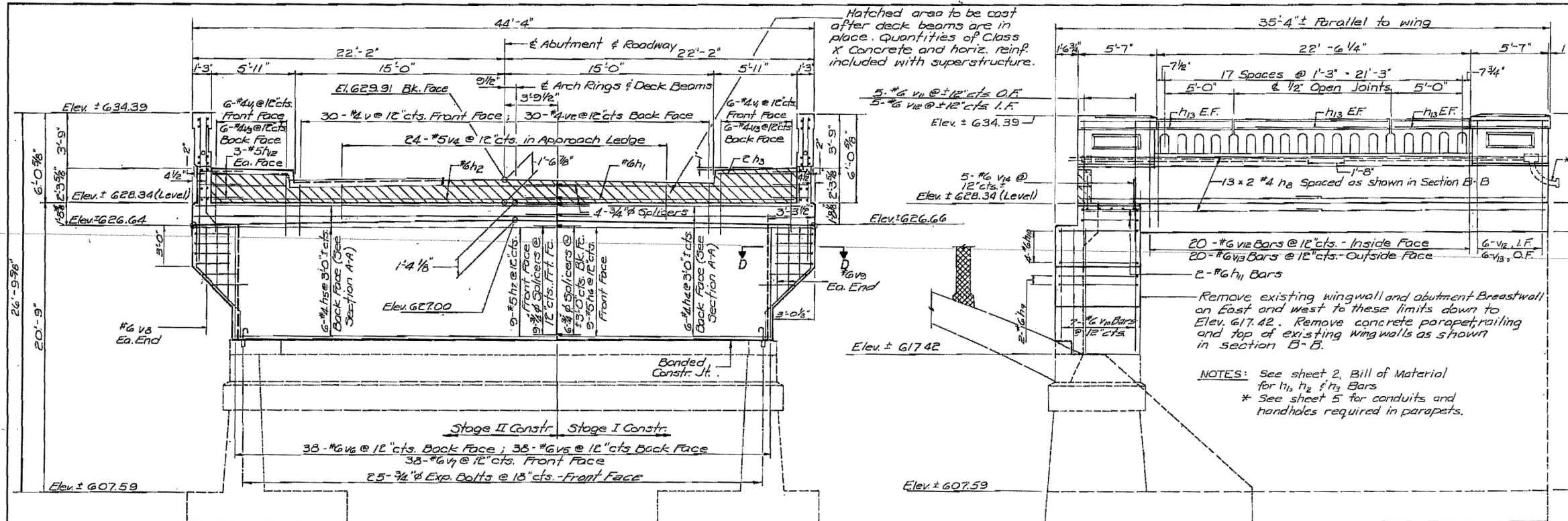
DESIGNED: V.S.N.
 CHECKED: D.H.C.
 DRAWN: R.A.W.
 CHECKED: K.L.F.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER NO. 2
 FA. RTE. 18 OVER APPLE RIVER.
 SECTION 103-D-BR
 JO DAVIESS COUNTY
 STATION 259 + 08.20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EA. 18	103-D-BR	JO DAVIESS	27	18

SHEET 10 OF 15 SHEETS



SECTION D-D

NORTH ABUT. BILL OF MATERIAL

Bar No.	Size	Length	Shape
h4	#4	17'-10"	---
h5	#4	25'-5"	---
h6	#5	17'-10"	---
h7	#5	25'-5"	---
h8	#4	17'-6"	---
h9	#6	10'-3"	---
h10	#6	14'-3"	---
h11	#4	8'-8"	---
h12	#5	3'-5"	---
h13	#4	10'-9"	---
v	#4	3'-3"	---
v1	#4	4'-2"	---
v2	#4	3'-2"	---
v3	#4	4'-0"	---
v4	#5	2'-6"	---
v5	#5	5'-5"	---
v6	#6	11'-0"	---
v7	#6	8'-2"	---
v8	#6	2'-8"	---
v9	#6	10'-5"	---
v10	#6	8'-7"	---
v11	#6	7'-10"	---
v12	#6	8'-3"	---
v13	#6	4'-10"	---
v14	#6	4'-10"	---

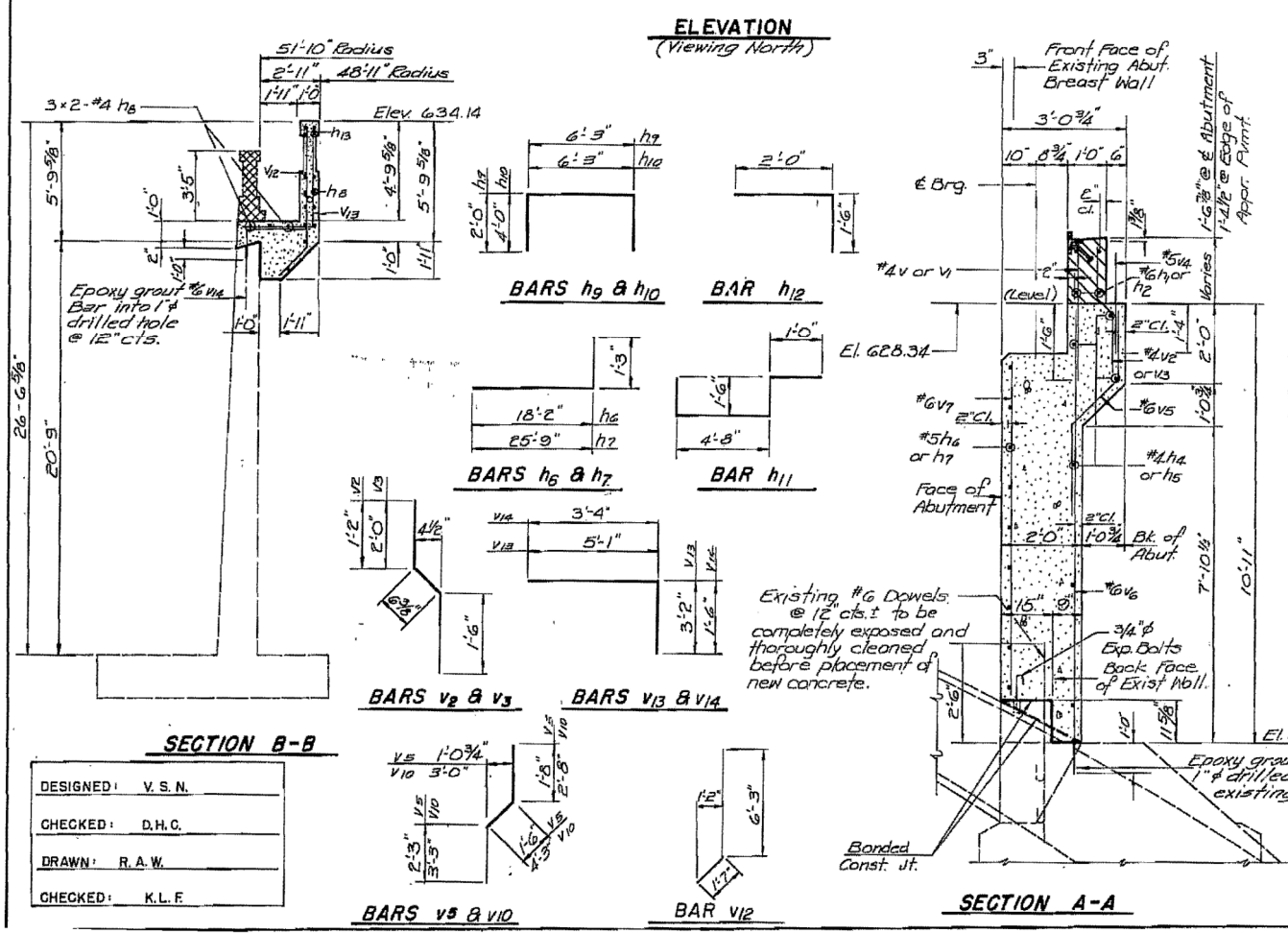
Class X Concrete C.Y. 65.6
 Reinforcement Bars LBS. 5640
 Exp. Bolts 3/4" # Each 25
 Concrete Removal C.Y. 20.7

Cost of 3/4" Splicers is incidental to reinforcement. See sheet 12 for Splicer Details.
 Bars indicated thus 5x2 cts. indicates 5 lines of bars with 2 lengths per line.

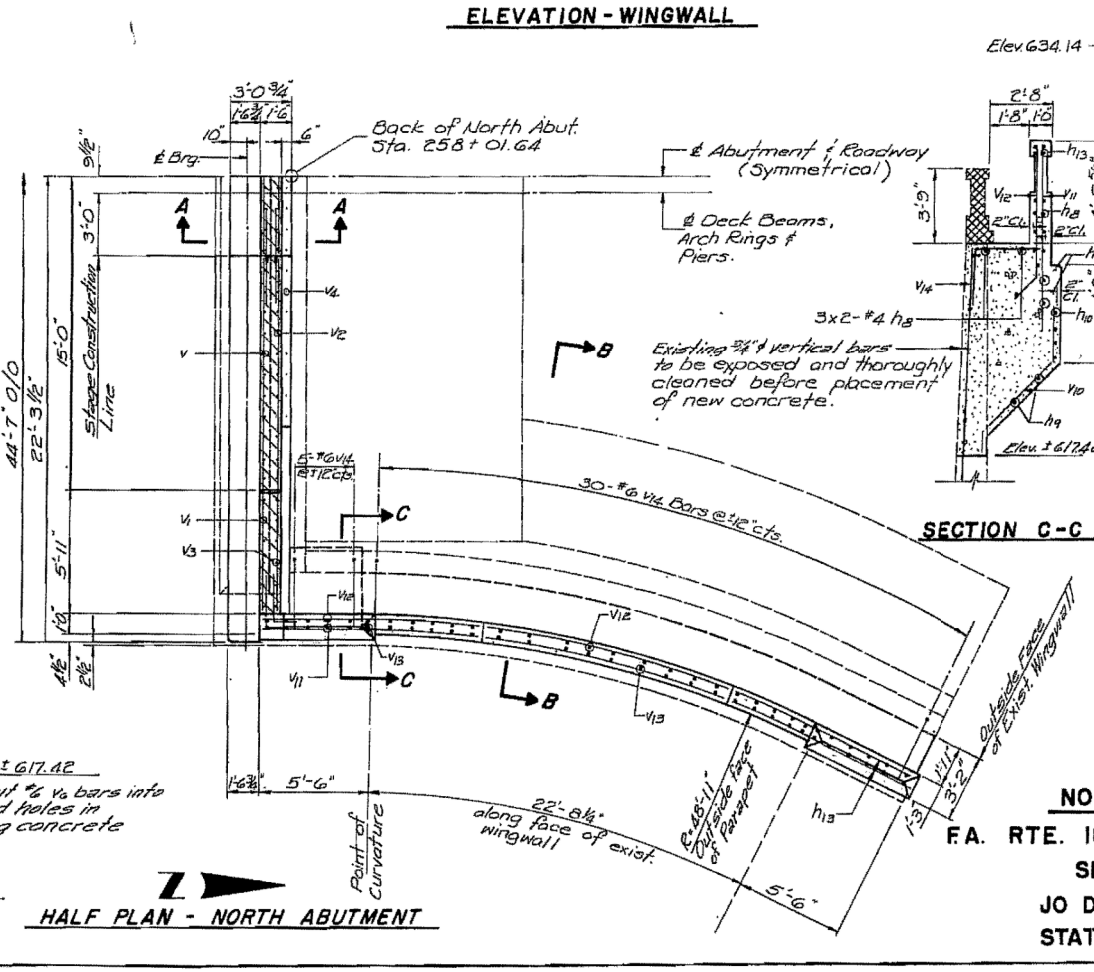
NORTH ABUTMENT

FA. RTE. 18 OVER APPLE RIVER
 SECTION 103-D-BR
 JO DAVIESS COUNTY
 STATION 259 + 08.20

FOR INFORMATION ONLY



SECTION A-A



SECTION B-B

HALF PLAN - NORTH ABUTMENT

DESIGNED:	V. S. N.
CHECKED:	D. H. C.
DRAWN:	R. A. W.
CHECKED:	K. L. F.



USER NAME =	dheber.ling	DESIGNED =	REVISOR =
FILE NAME =	0430028-64E08.dgn	CHECKED =	REVISOR =
PLOT SCALE =	0:2.00000 '1' / in.	DRAWN =	REVISOR =
PLOT DATE =	8/5/2013	CHECKED =	REVISOR =

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 STRUCTURE NO. 043-0080

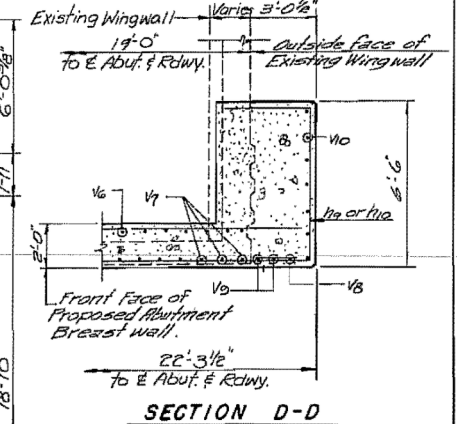
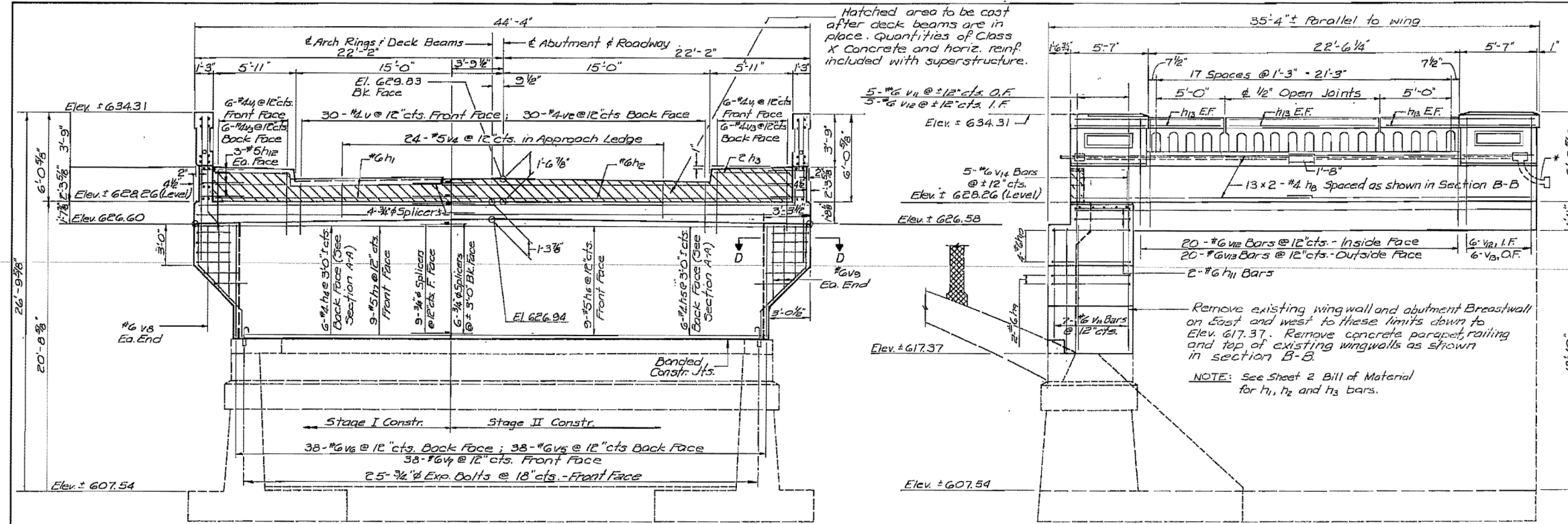
SHEET NO. 56 OF 60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	106

CONTRACT NO. 64E08
 ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 18	103-D-BR	JO DAVIESS	27	19

SHEET 11 OF 15 SHEETS



SOUTH ABUT BILL OF MATERIAL

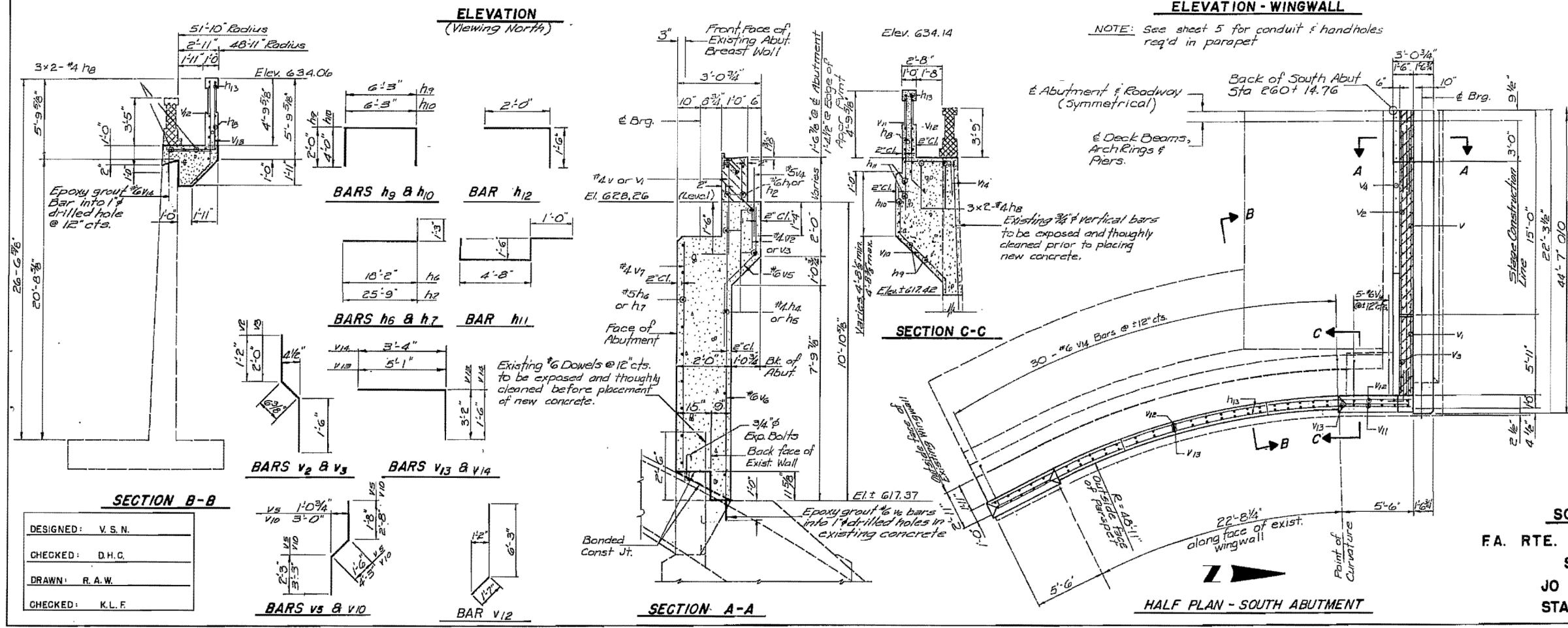
Bar	No.	Size	Length	Shape
h4	6	#4	17'-10"	---
h5	6	#4	25'-5"	---
h6	9	#5	17'-10"	---
h7	9	#5	25'-6"	---
h8	52	#4	17'-6"	---
h9	4	#6	10'-3"	---
h10	8	#6	14'-5"	---
h11	4	#6	8'-8"	---
h12	12	#5	3'-6"	---
h13	24	#4	10'-9"	---
v	30	#4	3'-3"	---
v1	12	#4	4'-2"	---
v2	30	#4	3'-2"	---
v3	12	#4	4'-0"	---
v4	24	#5	2'-6"	---
v5	38	#6	5'-5"	---
v6	38	#6	11'-0"	---
v7	38	#6	8'-2"	---
v8	2	#6	2'-8"	---
v9	4	#6	10'-6"	---
v10	14	#6	10'-2"	---
v11	10	#6	8'-7"	---
v12	62	#6	7'-10"	---
v13	52	#6	8'-3"	---
v14	70	#6	4'-10"	---

Class X Concrete	C.Y.	65.6
Reinforcement Bars	LBS.	5640
Exp. Bolts 3/4"	EACH	25
Concrete Removal	C.Y.	20.7
Handrail Conc.		

Cost of 3/4" Splicers is incidental to reinforcement. See sheet 12 for Splicer Details. Bars indicated thus 5x2 cts. indicates 5 lines of bars with 2 lengths per line.

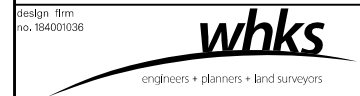
SOUTH ABUTMENT

FA. RTE. 18 OVER APPLE RIVER
SECTION 103-D-BR
JO DAVIESS COUNTY
STATION 259 + 08.20



DESIGNED:	V.S.N.
CHECKED:	D.H.G.
DRAWN:	R.A.W.
CHECKED:	K.L.F.

FOR INFORMATION ONLY



USER NAME = dheberling	DESIGNED =	REVISED =
FILE NAME = 0430028-64E08.dgn	CHECKED =	REVISED =
PLOT SCALE = 0:2.00000 '1' / in.	DRAWN =	REVISED =
PLOT DATE = 8/5/2013	CHECKED =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

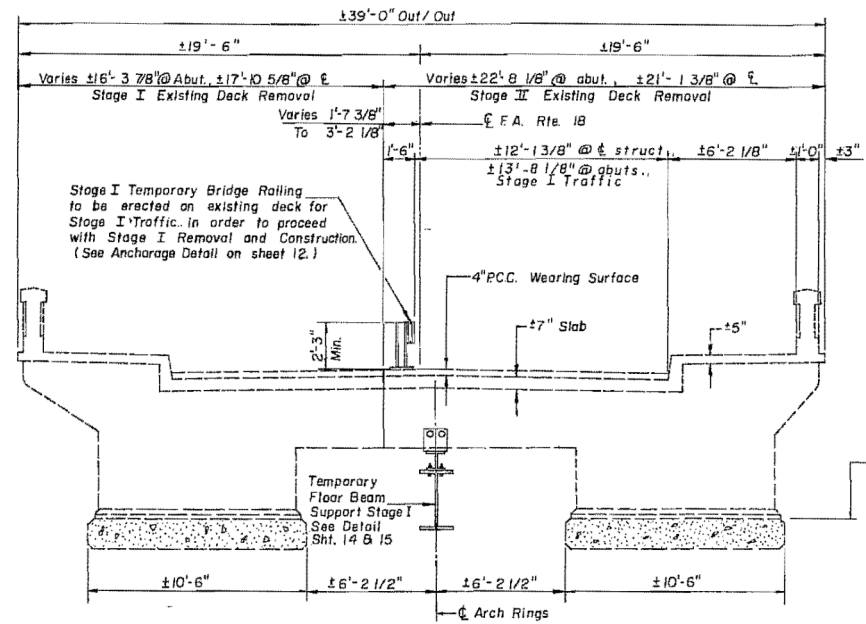
EXISTING PLANS
STRUCTURE NO. 043-0080
SHEET NO. 57 OF 60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	107

CONTRACT NO. 64E08
ILLINOIS FED. AID PROJECT

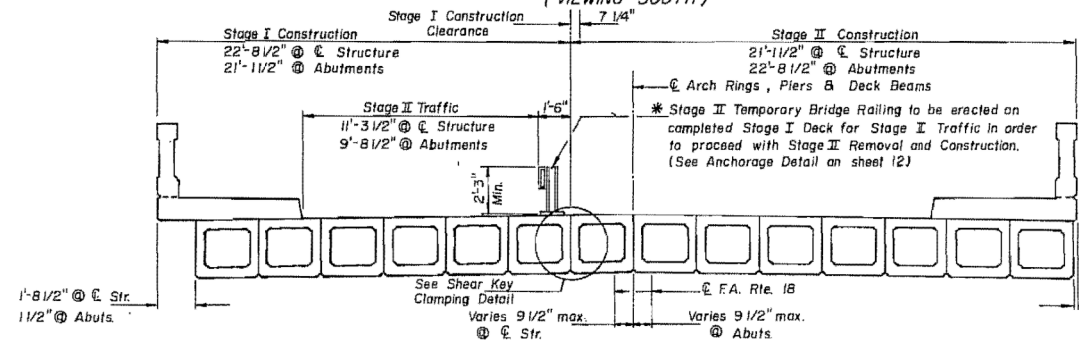
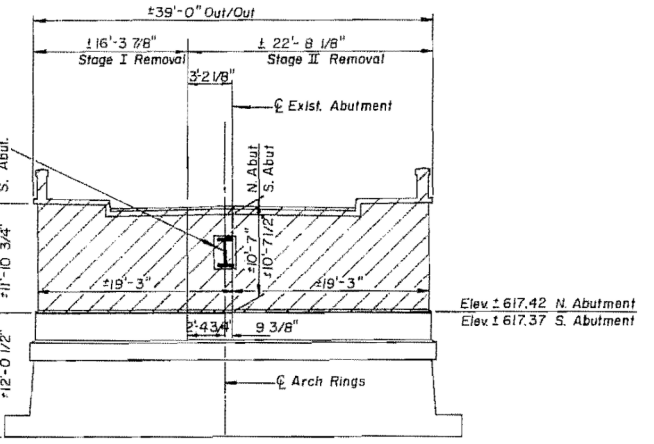
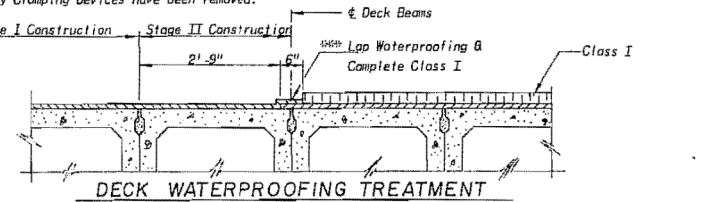
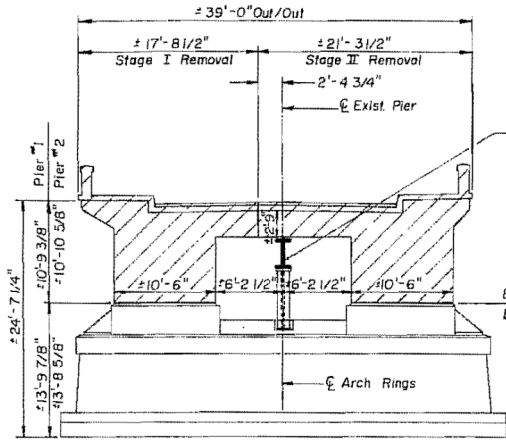
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 18	103-D-BR	JO DAVIESS	27	21

SHEET 13 OF 15 SHEETS



Remove Concrete and Reinforcement to 2\"/>

SPANDREL REMOVAL DETAIL AT TOP OF ARCH RING TYPICAL



* Remove Rail & Post material from Stage I Temporary Bridge Railing for reuse on the Stage II Temporary Railing.

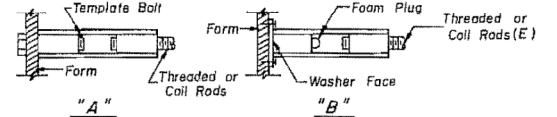
	3/4\"/>	
Root Diameter	0.625"	0.838"
Threaded Dist. "x"	1 1/2"	2 1/4"
Lap Length "L"	2'-2"	4'-9"
Tension Pull Out	10,124 Lbs.	18,201 Lbs.
Shear Strength	7,363 Lbs.	13,237 Lbs.

WELDED SECTIONS ONE PIECE SPLICER ALTERNATIVES

NOTES:

- Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the spliced reinforcement bars.
- Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the spliced reinforcement bars.
- Splicer rods shall extend minimum 1-1/2 inches into the couplers.
- All reinforcement bars shall be lapped and tied to the splicer rods.
- Splicer (Coupler) assembly in the slab shall be epoxy coated in accordance with the requirements for reinforcement bars.
- Other systems of similar design may be submitted to the engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

SECTION THRU SPLICER ASSEMBLY

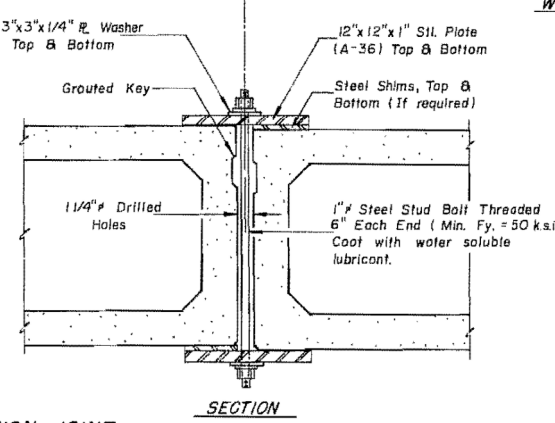
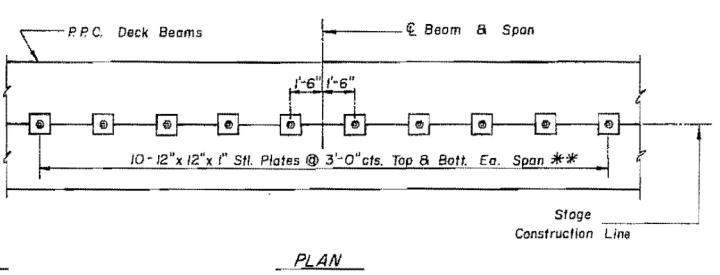
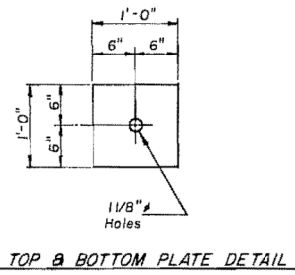


- "A": Set splicer by means of a template bolt.
- "B": Set splicer by nailing to wood forms or cementing to steel forms.
- "E": Indicates epoxy coating, see special provisions.

INSTALLATION AND SETTING METHODS

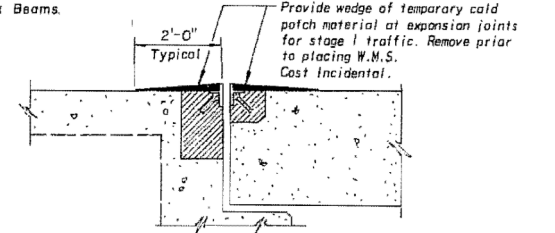
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STAGE CONSTRUCTION DETAILS
FA. RTE. 18 OVER APPLE RIVER
FA. RTE. 18, SEC. 103-D-BR
JO DAVIESS COUNTY
STATION 259+08.20



SHEAR KEY CLAMPING DETAILS AT STAGE CONSTRUCTION JOINT

NOTES: Cast incidental to Prec. Press. Concrete Deck Beams. See Stage Construction Details for Traffic Lane.



DESIGNED:	V. S. N.
CHECKED:	D. H. C.
DRAWN:	R. A. W.
CHECKED:	K. L. F.



USER NAME = dheberling	DESIGNED -	REVISED
FILE NAME = 0430028-64E08.dgn	CHECKED -	REVISED
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PLOT DATE = 8/5/2013	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 043-0080

SHEET NO. 58 OF 60 SHEETS

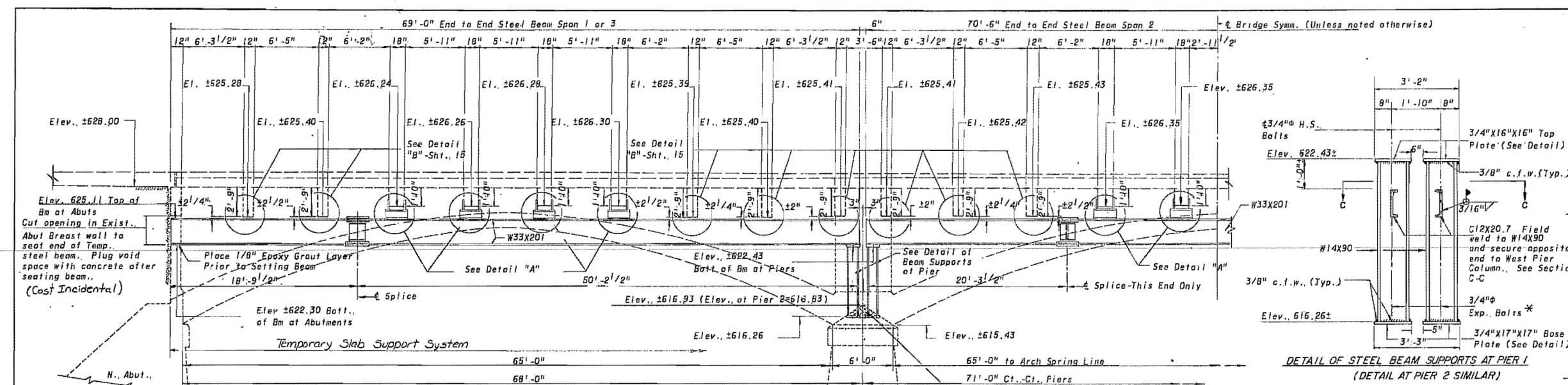
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308	103BR-4	JO DAVIESS	159	108

FOR INFORMATION ONLY

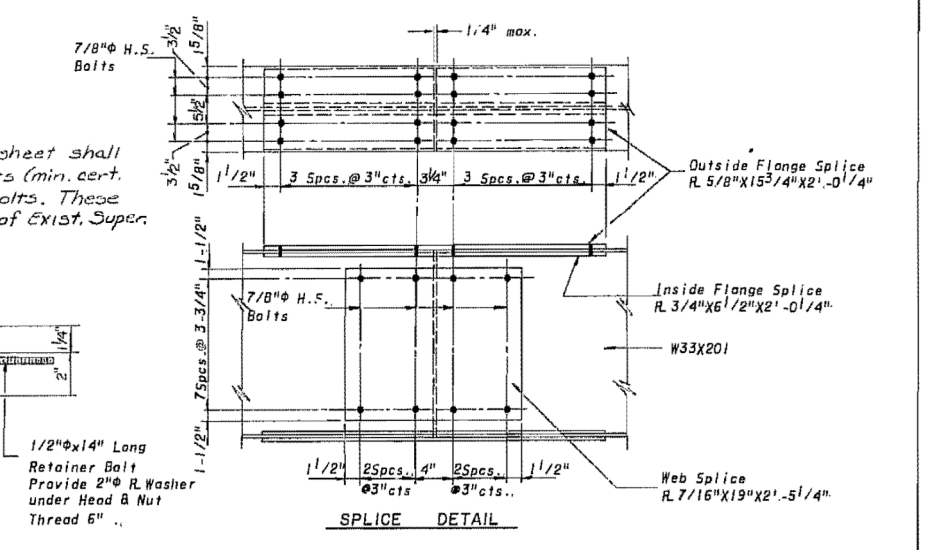
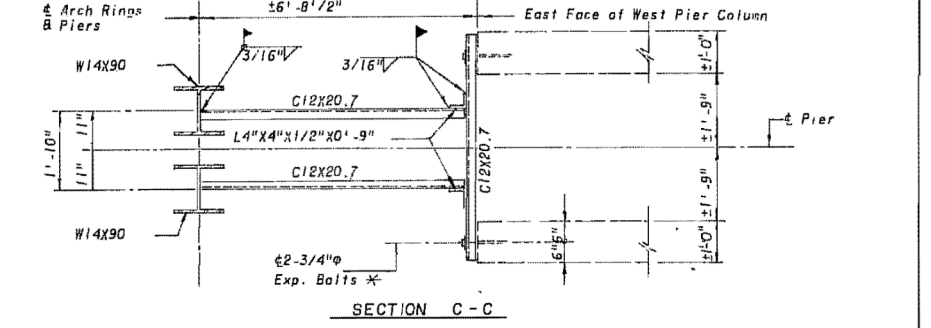
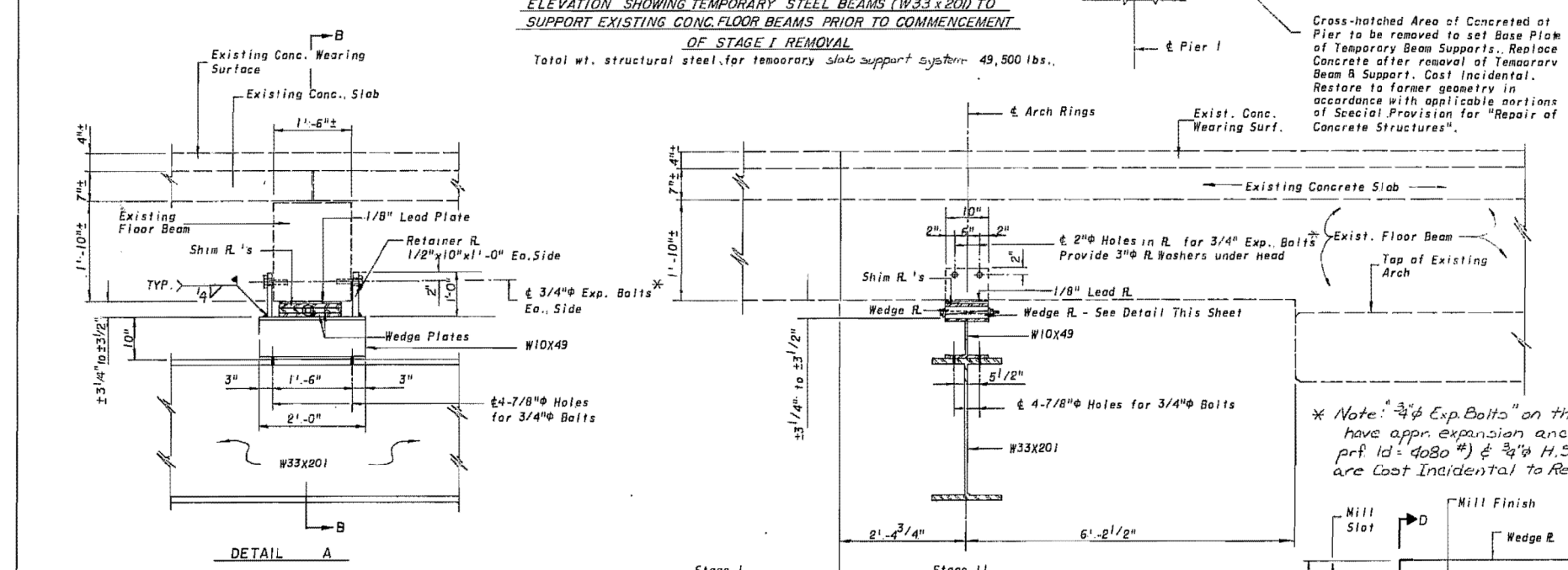
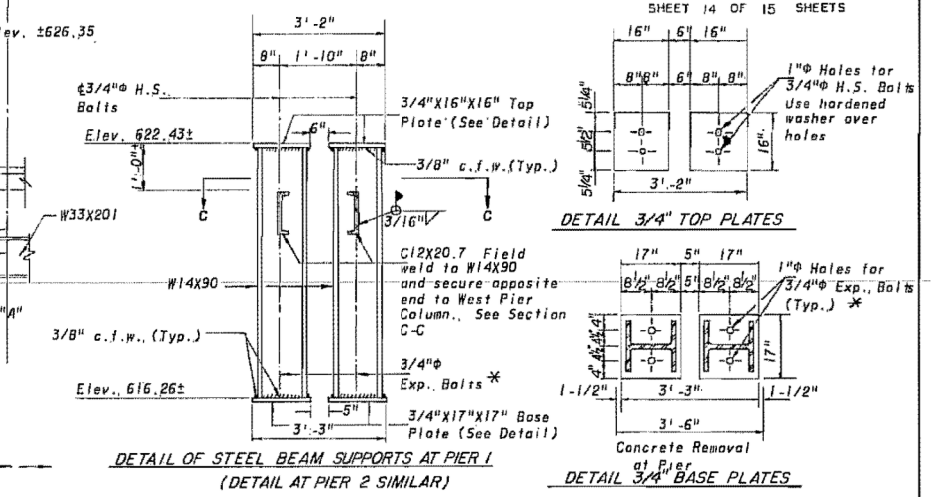
ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 18	103-D-BR	JO DAVIESS	27	22

SHEET 14 OF 15 SHEETS



ELEVATION SHOWING TEMPORARY STEEL BEAMS (W33x201) TO SUPPORT EXISTING CONC. FLOOR BEAMS PRIOR TO COMMENCEMENT OF STAGE I REMOVAL
Total wt. structural steel for temporary slab support system 49,500 lbs.



- SEQUENCE FOR ERECTION OF TEMPORARY STEEL BEAMS & STAGE I SUPERSTRUCTURE REMOVAL:**
- 1., Prior to commencing Stage I Superstructure Removal, temporary steel beams shall be erected to support the superstructure floor beams, in accordance with the details shown. The following sequence of operations is presented as an approved sequence. Alternate procedures meeting the approval of the Engineer may be used.
 - 2., Cut required openings in abutment breast walls and grout beam seats level to required elevations. Remove existing concrete at piers as shown on details and grout to required elevation for stub column bearings at piers.
 - 3., Move W33x201 in place under superstructure. Temporary support of W33x201 may be devised by shoring, providing cross framing between existing arches or any other method, all of which must meet the approval of the Engineer.
 - 4., Complete splice and install stub column supports at piers.
 - 5., Install W10x49 beam stubs under intermediate floor beams as shown.
 - 6., Insert bottom wedge plate and tack weld to W10x49 flange. Insert loosely top wedge plate, lead plate, and required shim plates at all floor beam locations.
 - 7., Proceeding in a symmetrical fashion about the centerline of each span drive wedge plates to tight fit under floor beams, tighten retaining bolt and repeat as required until tight fit has been obtained under all floor beams.
 - 8., After tight fit has been obtained under all floor beams in span, tack weld shim plates, wedge plates and W10x49 beam stub together to prevent slippage of assembly.
 - 9., Weld side retaining plates to intermediate load transfer assembly as shown on details, and install expansion anchor bolts through plates.
 - 10., Cost for furnishing and erecting temporary steel beams, supports, splices, shims, wedge plates and related work shall be included in the cost for "TEMPORARY SLAB SUPPORT SYSTEM".
 - 11., After erection of all temp. steel beams, Stage I Superstructure removal shall commence. Removal of the existing deck and spondrels shall begin at the center of each span and proceed longitudinally in a symmetrical fashion towards end supports. (Piers & Abuts)
 - 12., The Contractor is responsible for protecting the existing concrete arches during all phases of construction. Any temporary falsework on the arches shall be approved by the Engineer.
 - 13., Cost of removing & disposing of the temp. support system shall be incidental to "Temporary Slab Support System".

DESIGNED:	V. S. N.
CHECKED:	D. H. C.
DRAWN:	R. A. W.
CHECKED:	K. L. F.

* Note: "3/4" Exp. Bolts" on this sheet shall have appr. expansion anchors (min. cert. prf. 1d = 4080 #) & 3/4" H.S. bolts. These are Cost Incidental to Rem. of Exist. Super.

NOTE: Furnish and install 1/4"x10"x0'-10" Shim Plates as required.

TEMPORARY SLAB SUPPORT & STAGE CONSTRUCTION DETAILS
FA. RTE. 18 OVER APPLE RIVER
FA. RTE. 18, SEC. 103-D-BR
JO DAVIESS COUNTY
STATION 259+08.20

REVISED 1/6/83 JE



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PLOT DATE = 8/5/2013	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 043-0080
SHEET NO. 59 OF 60 SHEETS

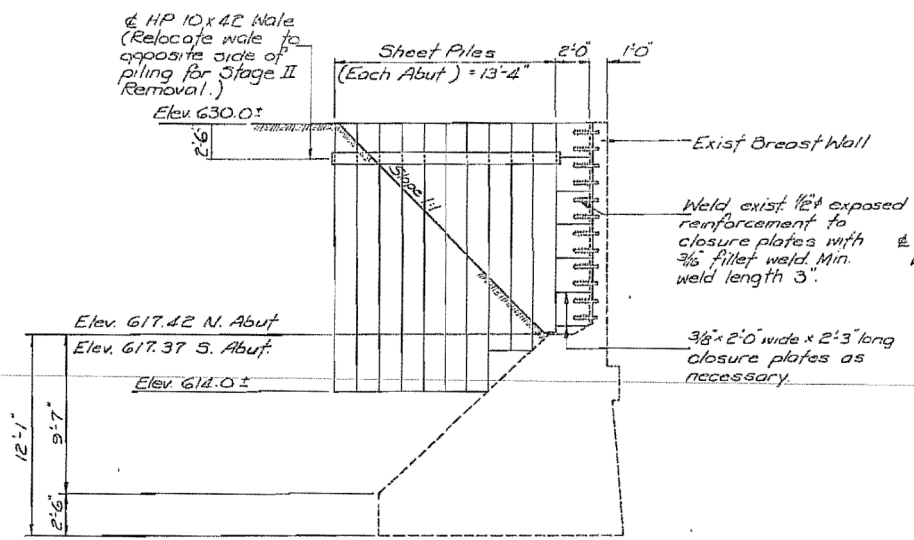
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	109

CONTRACT NO. 64E08
ILLINOIS FED. AID PROJECT

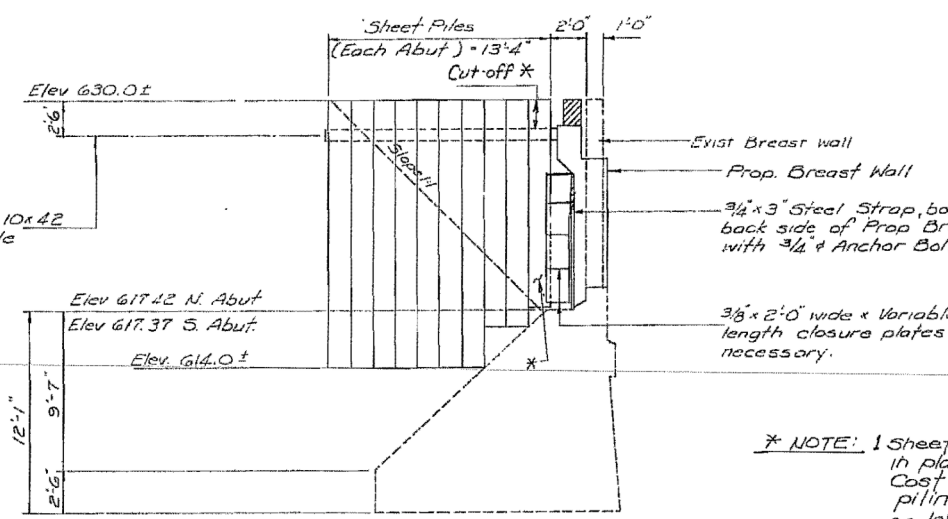
FOR INFORMATION ONLY

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SHEET 15 OF 15 SHEETS



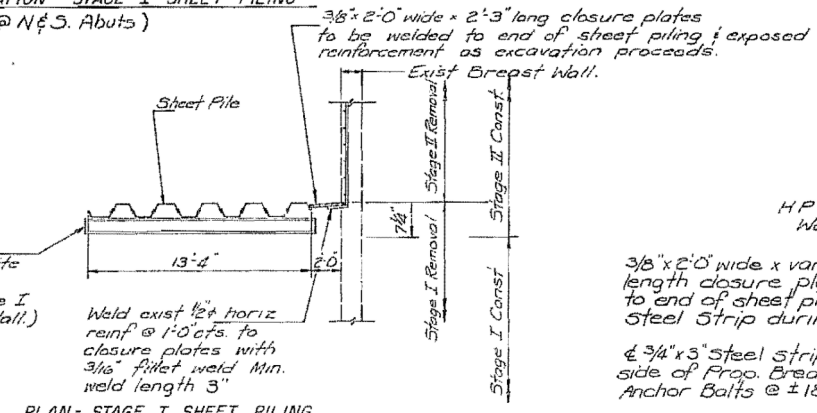
ELEVATION - STAGE I SHEET PILING
(Typ @ N & S Abuts)



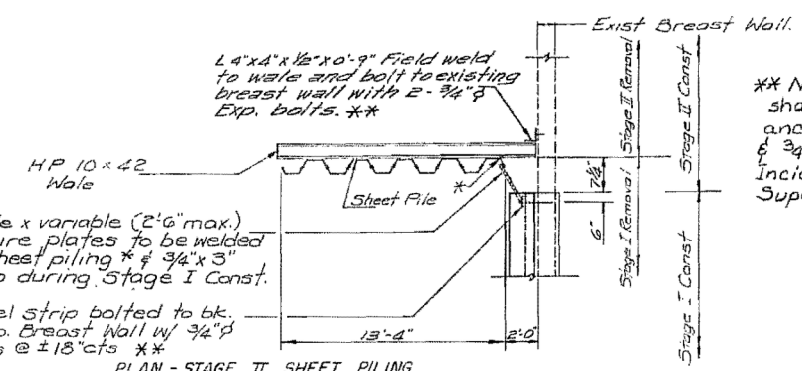
ELEVATION - STAGE II SHEET PILING
(Typ @ N & S Abut)

- Notes:**
- 1) Stage I closure plates welded to end of sheet pile shall not be removed until Stage I Construction is opened to traffic.
 - 2) Cost of Waling, connections & accessories are incidental to temp. sheet piling.
 - 3) Sheet piling shall have a minimum Section Modulus $S = 10.7 \text{ in.}^3$ per foot of wall.

* NOTE: 1 Sheet Pile, as indicated, must remain in place after Stage II Construction. Cost incidental to temporary sheet piling. Other sheeting may be removed or left in place at Contractor's option. All sheeting that remains shall be cut-off at elev 628.0 prior to placing the approach slab.



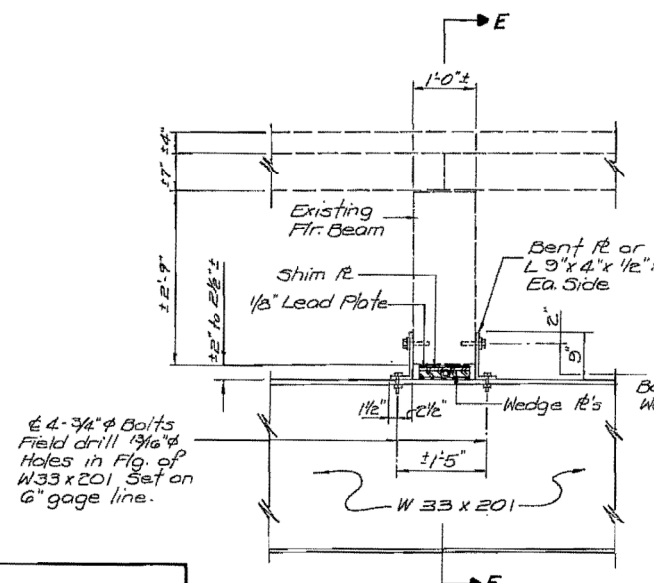
PLAN - STAGE I SHEET PILING



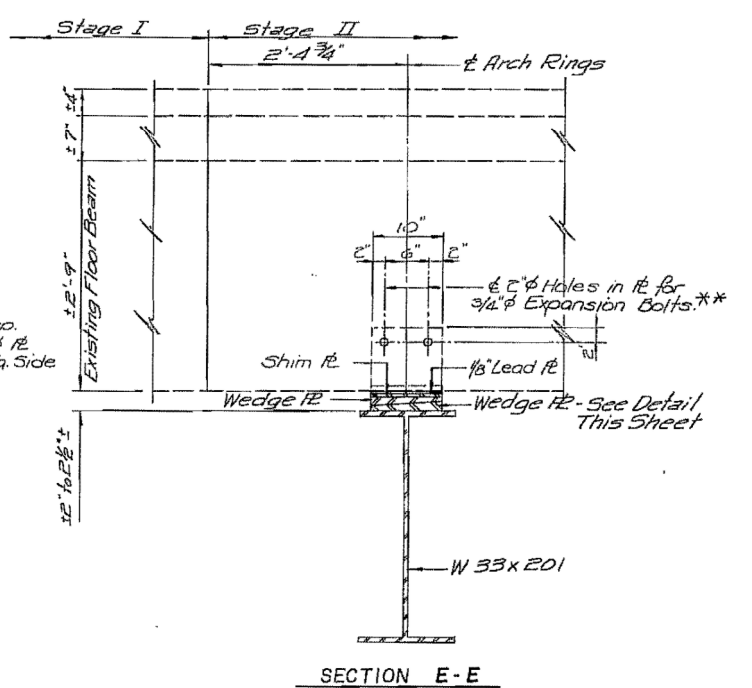
PLAN - STAGE II SHEET PILING

** Note: "3/4" Exp. Bolts" on this sheet shall consist of appr. expansion anchors (min. cert. prf. ld. = 9080#), & 3/4" H.S. bolts. These are Cost Incidental to Removal of Existing Superstructures.

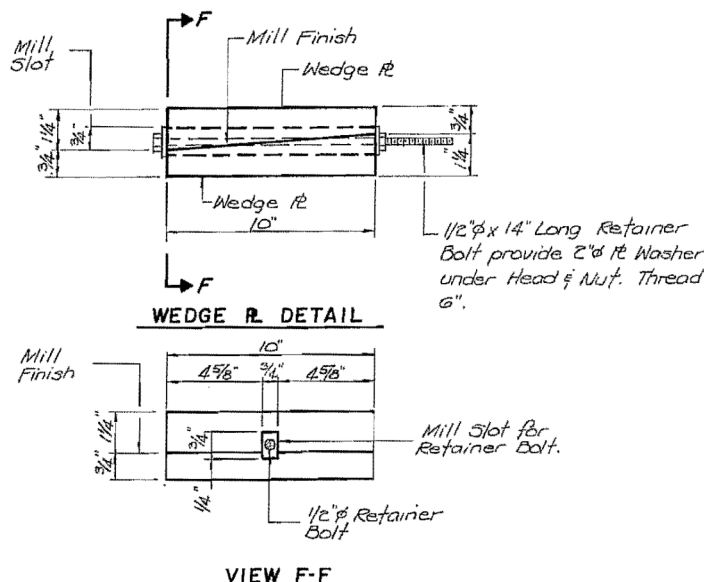
STAGE CONSTRUCTION - SHEET PILING DETAILS



DETAIL B
(Reference Sht 14)



SECTION E-E



WEDGE R DETAIL

VIEW F-F

NOTE: Furnish and install 1/4" x 10" x 0'-10" Shim Plates as required.

STAGE CONSTRUCTION DETAILS
F.A. RTE. 18 OVER APPLE RIVER
F.A. RTE. 18, SEC. 103-D-BR
JO DAVIESS COUNTY
STATION 259 + 08.20

DESIGNED:	V. S.N.
CHECKED:	D.H.C.
DRAWN:	R.A.W.
CHECKED:	K.L.F.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 043-0080

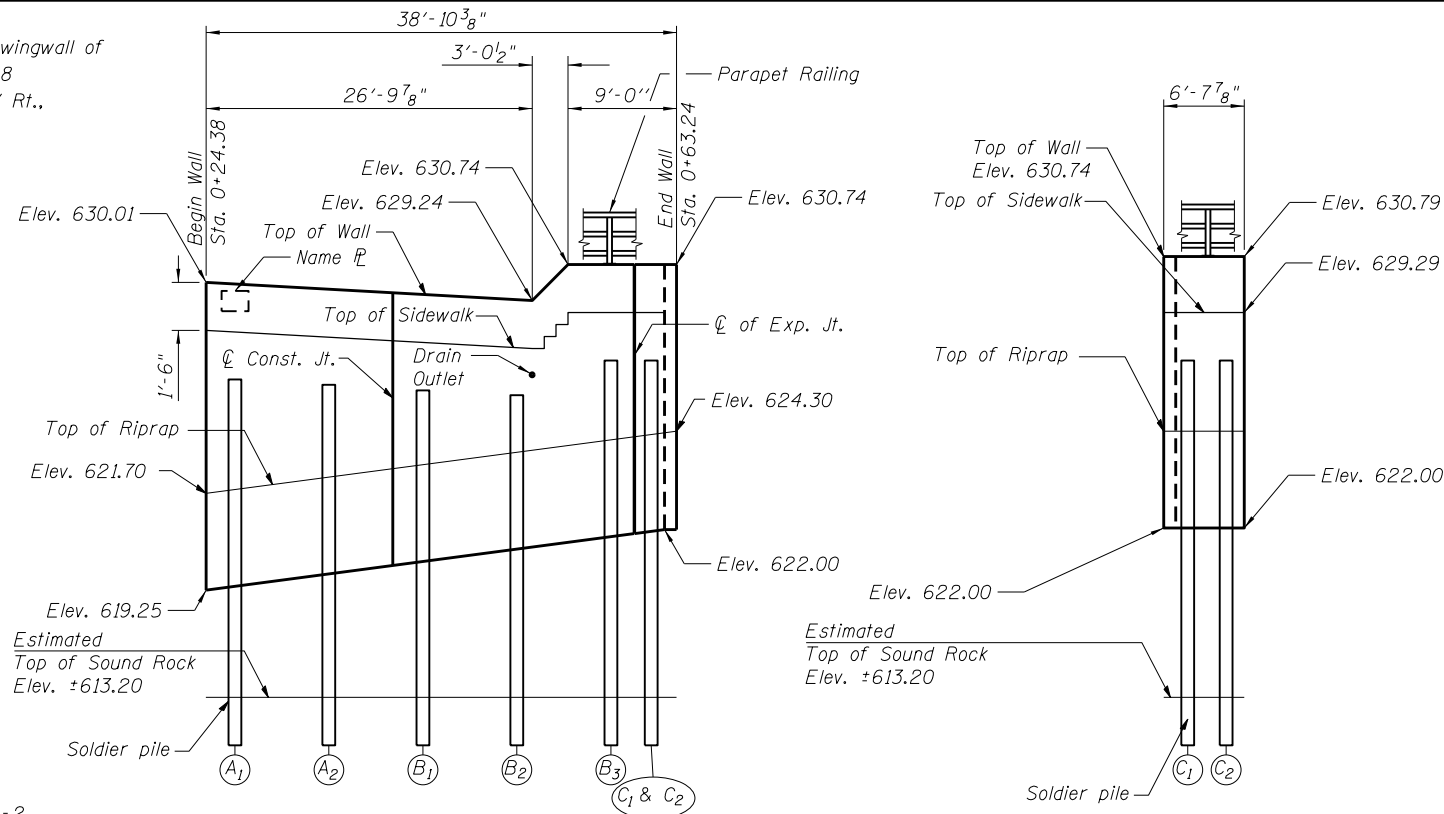
SHEET NO. 60 OF 60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	110

CONTRACT NO. 64E08

ILLINOIS FED. AID PROJECT

Bench Mark: Brass disc on the S.E. wingwall of Structure No. 043-0028
Sta. 318+60.35, 29.08' Rt., Elev. 634.33



STATION 318+50.36 LT
FAP RTE. 308 SEC. 103BR-4
BUILT 20XX
STR. NO. 043-7014

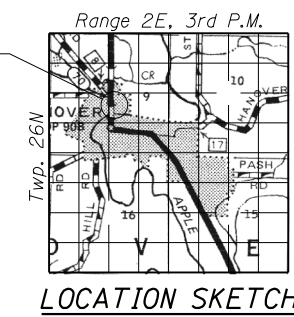
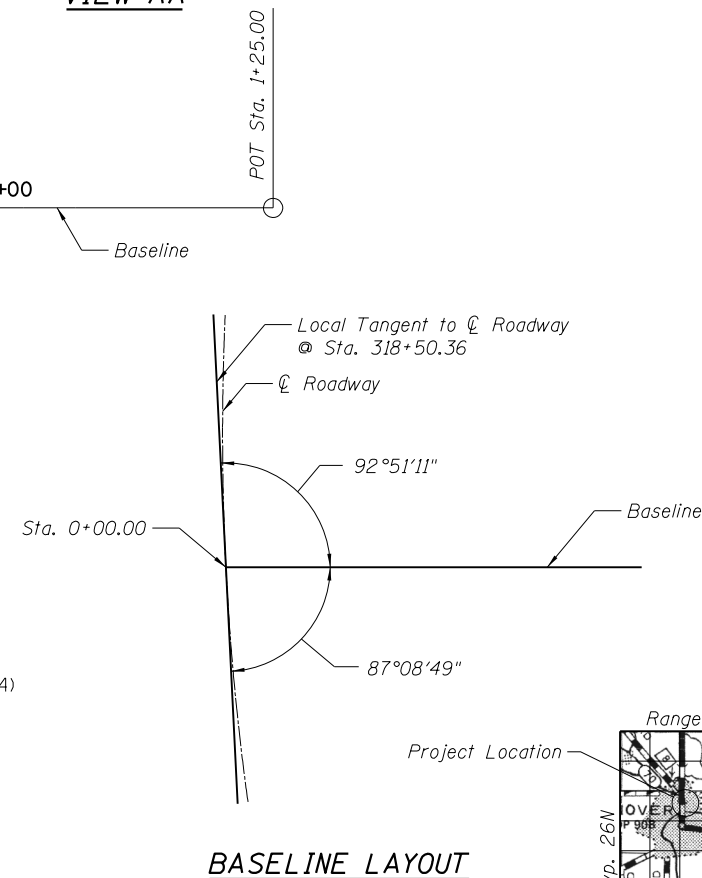
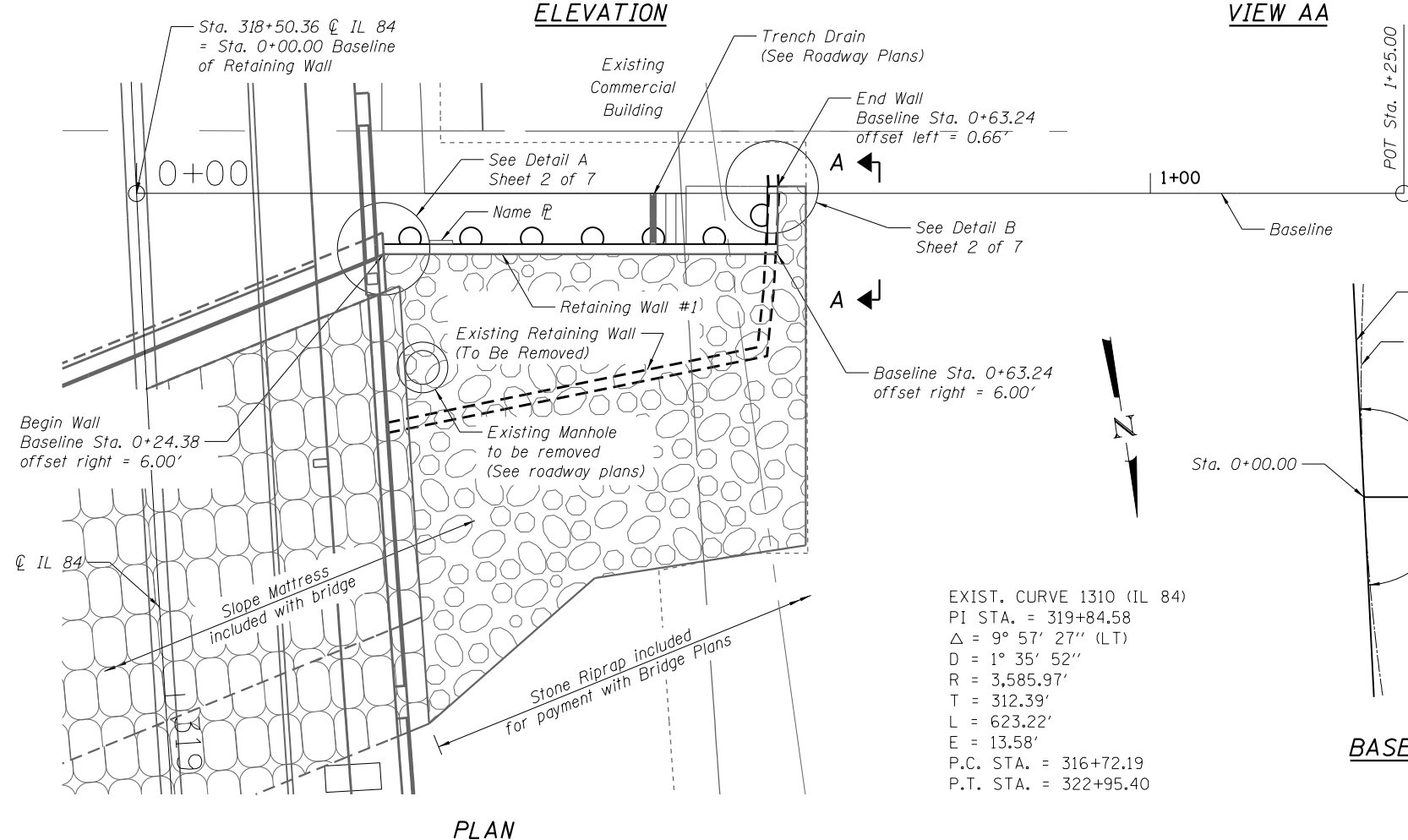
NAME PLATE
(See Dist. 2 Std. 88.2)

INDEX OF SHEETS

1. Plan and Elevation
2. General Notes, Cross Section
3. Panels A, B & C
4. Soldier Pile Wall Data
5. Soldier Pile Wall Details
6. Parapet Railing
7. Soil Borings

TOTAL BILL OF MATERIAL

ITEM	UNIT	Quantity
Structure Excavation	Cu. Yd.	60
Concrete Structures	Cu. Yd.	15.8
Stud Shear Connectors	Each	102
Reinforcement Bars, Epoxy Coated	Pound	2570
Parapet Railing	Foot	45
Geocomposite Wall Drain	Sq. Yd.	19
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	574
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	172
Retaining Wall Removal	Foot	48
Untreated Timber Lagging	Sq. Ft.	229
Furnishing Soldier Piles (Built-up Section)	Foot	18
Furnishing Soldier Piles (W Section)	Foot	99
Pipe Underdrains for Structures 4"	Foot	66
Name Plate	Each	1



DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition and 2010 Interims

DESIGN LOADING

Equivalent Fluid Lateral Soil Pressure = 50 lbs/cu.ft.
Surcharge load = 120 lbs/sq.ft.

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Soldier Piles)

GENERAL PLAN & ELEVATION
IL RTE 84 - RETAINING WALL #1

FAP ROUTE 308
SEC. 103BR-4
JO DAVIESS COUNTY
STA 318+50.36 LT

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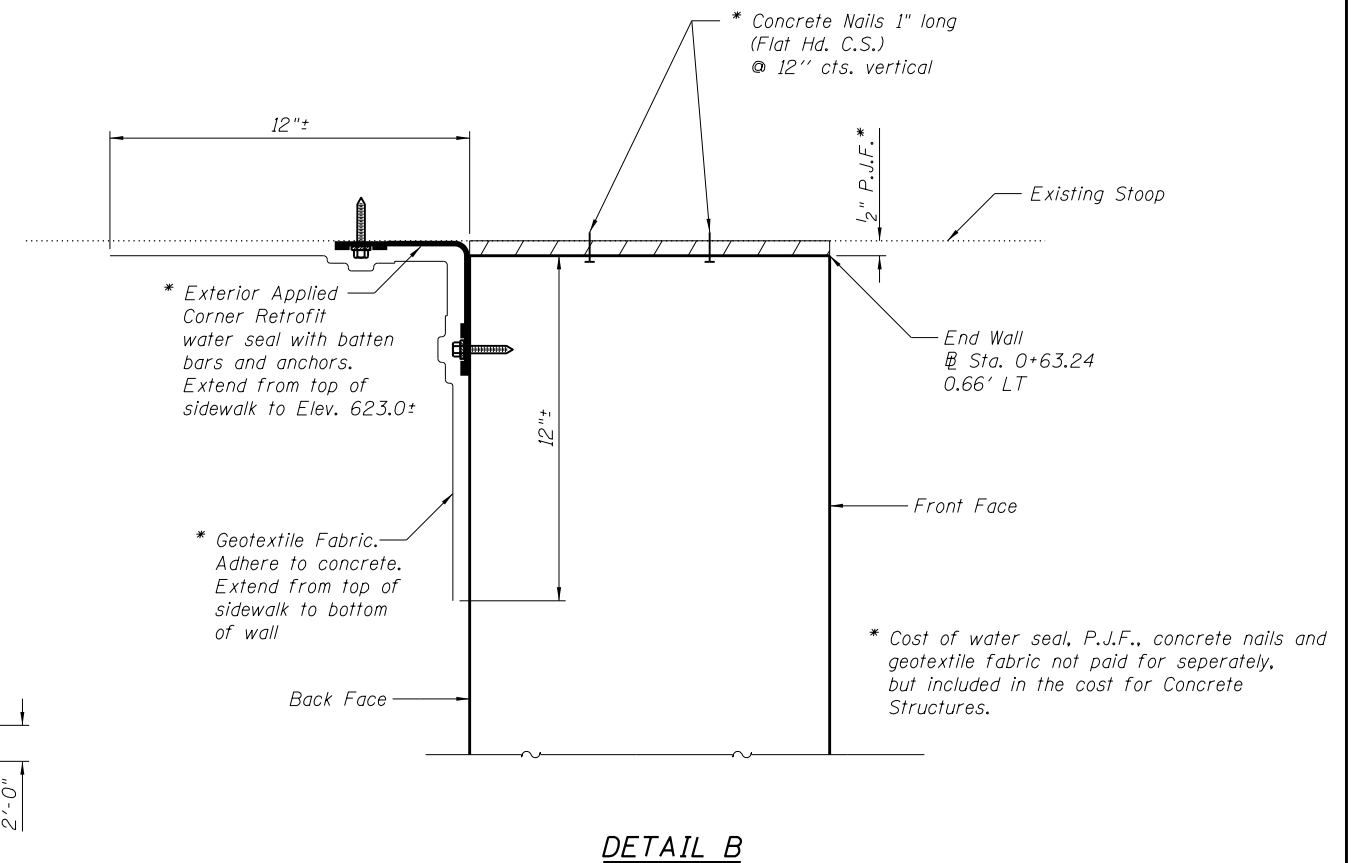
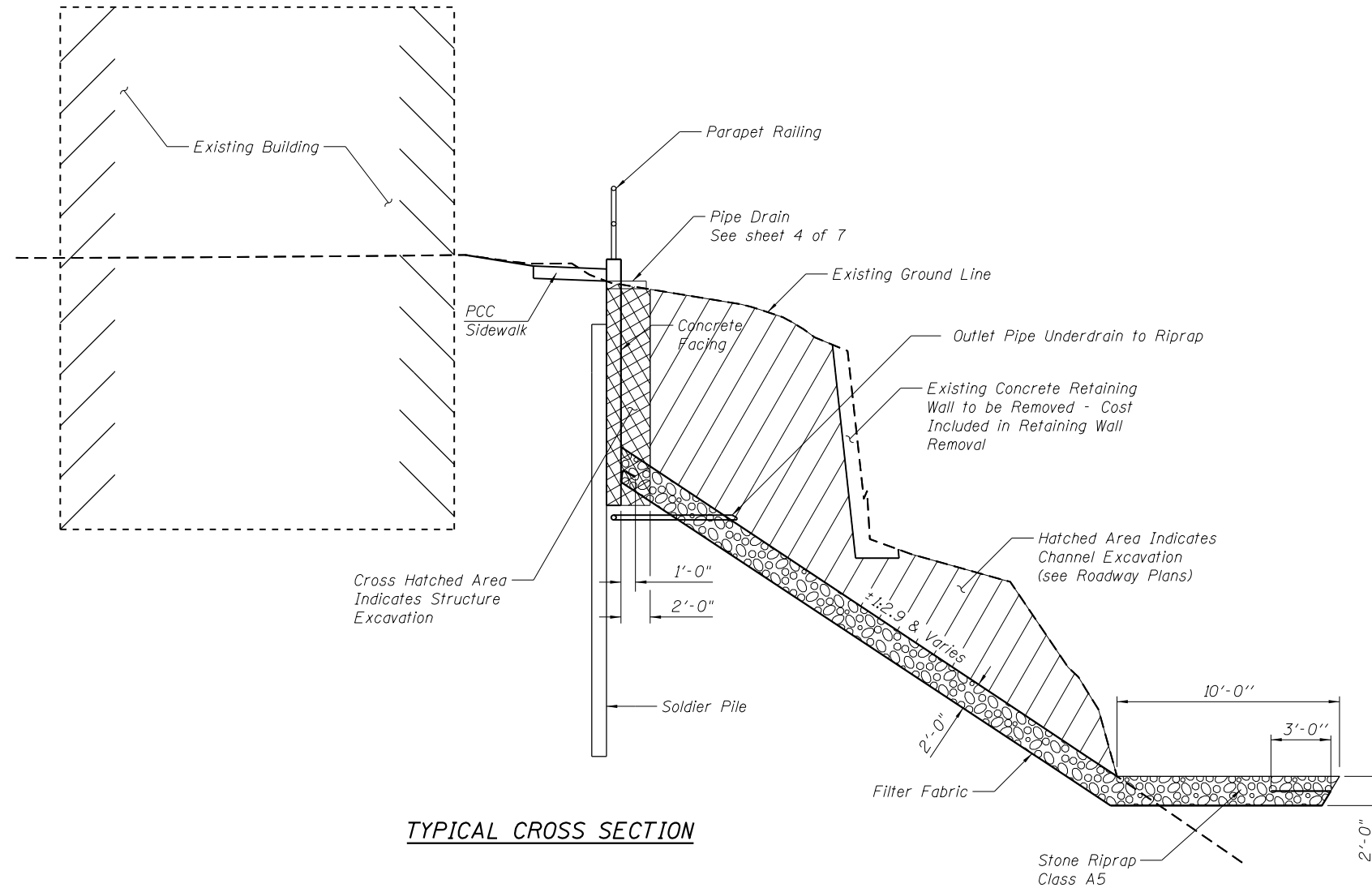
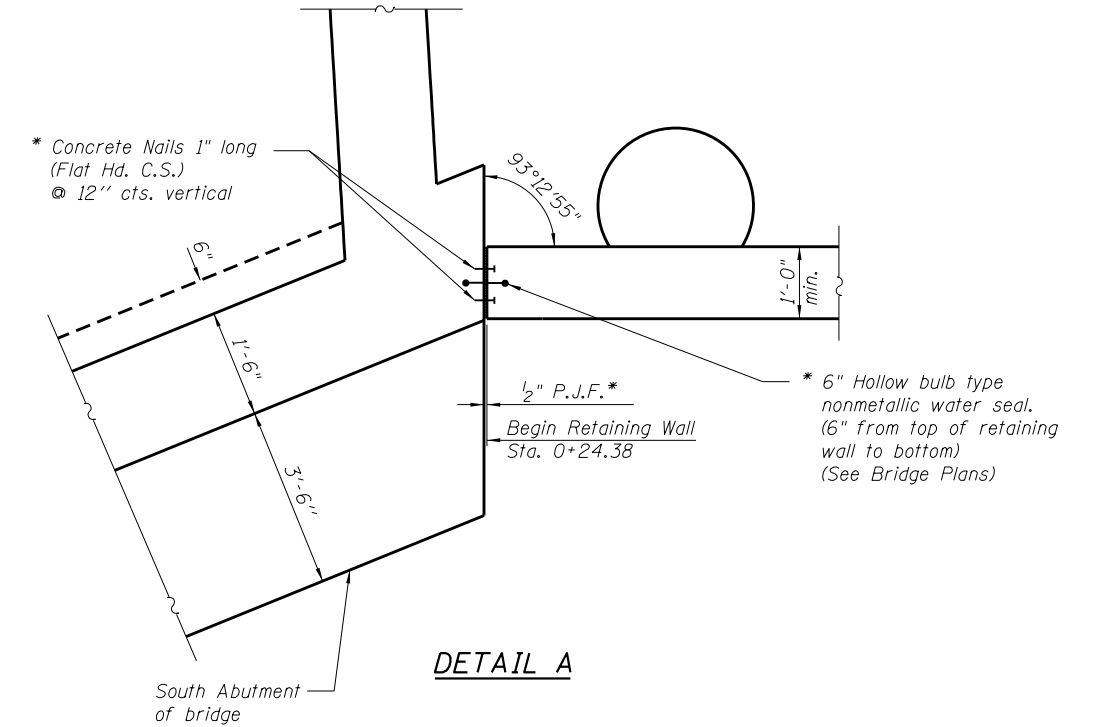
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	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
RETAINING WALL #1
SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	111
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				

- General Notes:**
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. All exposed concrete edges shall be bevelled $\frac{3}{4}$ ".
 3. Removal of the existing retaining wall and Construction of the proposed retaining wall shall be accomplished in accordance with the special provision for CONSTRUCTION VIBRATION AND MONITORING.
 4. The geocomposite wall drain shall be constructed according to section 591 of The Standard Specifications. The contractor shall insure that the bottom, sides and the top of edges are protected from soil entering or sealing the drain while placing the pervious fabric side of the drain towards the soil. Geocomposite wall drain shall be installed in stages as the excavation proceeds downward. Splicing should be minimized following proper splice practices to insure no long term soil contamination.
 5. The anticipated deflection at the top of wall during construction is estimated to be $\frac{3}{8}$ ". The concrete facing thickness is to be adjusted accordingly.
 6. The Contractor is responsible for the design and performance of the lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 p.s.i.
 7. Existing retaining wall shall remain in place until timber lagging is completed in the proposed retaining wall.



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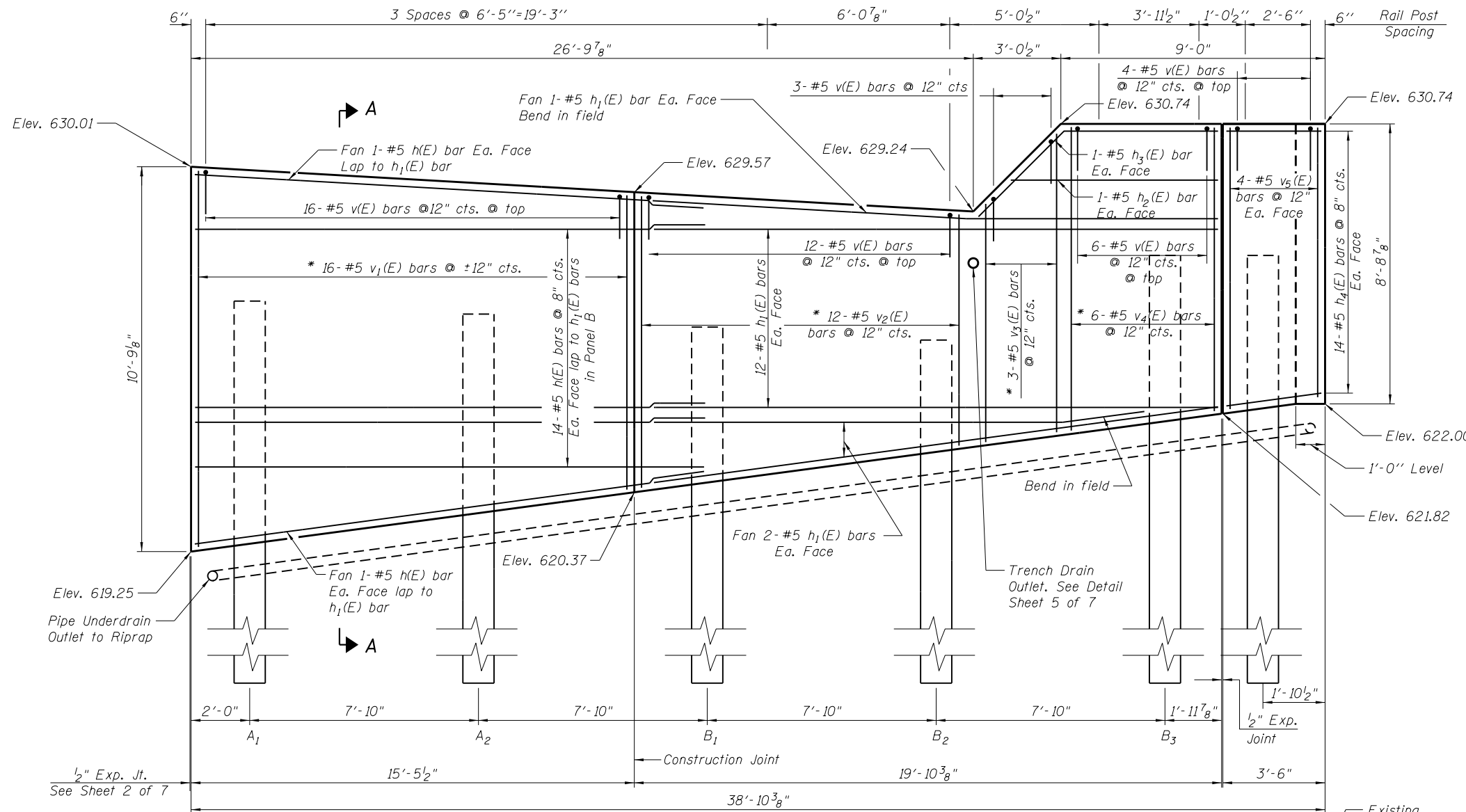
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, CROSS SECTION
 RETAINING WALL #1**

SHEET NO. 2 OF 7 SHEETS

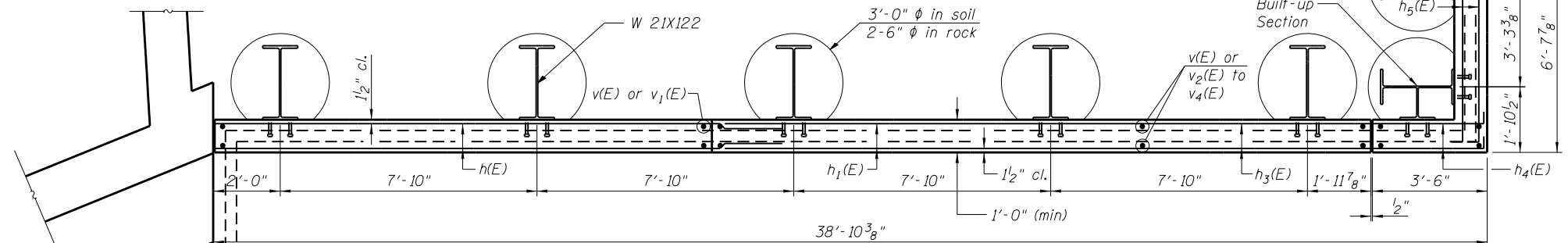
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	112
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT



**ELEVATION
PANEL A**

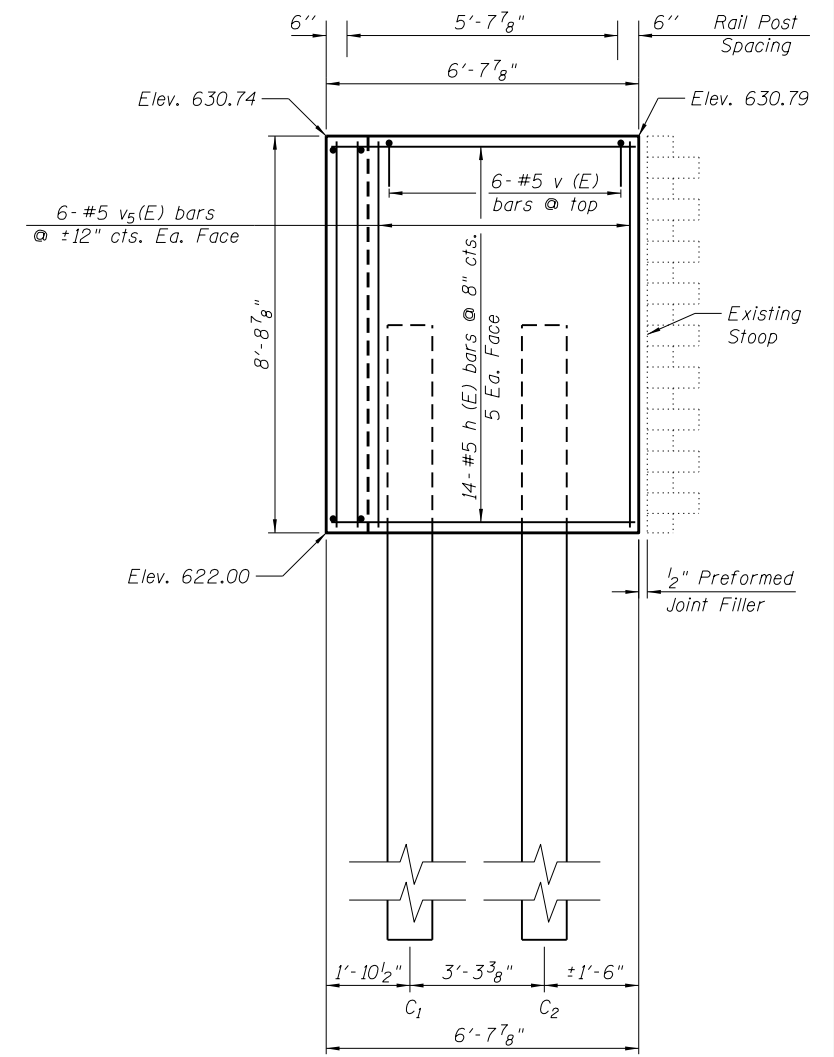
MINIMUM BAR LAP
#5 bar = 3'-8"



**PLAN
PANEL A**

**ELEVATION
PANEL B**

**PLAN
PANEL B**



**ELEVATION
PANEL C**

**PLAN
PANEL C**

TOTAL BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#5	19'-2"	—
h ₁ (E)	30	#5	19'-6"	—
h ₂ (E)	2	#5	6'-9"	—
h ₃ (E)	2	#5	8'-8"	—
h ₄ (E)	28	#5	4'-0"	—
h ₅ (E)	28	#5	7'-2"	—
v(E)	47	#5	2'-2"	—
v ₁ (E)	16	#5	19'-4"	—
v ₂ (E)	12	#5	16'-0"	—
v ₃ (E)	3	#5	16'-4"	—
v ₄ (E)	6	#5	16'-11"	—
v ₅ (E)	20	#5	8'-4"	—
Concrete Structures			Cu Yds.	15.8
Reinf. Bars Epoxy Ctd.			Lbs.	2570

* See Sheet 4 of 7 for Bar Cutting Diagram
Order bars full length. Cut as shown and use remainder of bars in opposite face.

See Sheet 4 of 7 for Section A-A.

For Expansion and Construction Joint details see sheet 5 of 7.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PANELS A, B & C
RETAINING WALL #1**

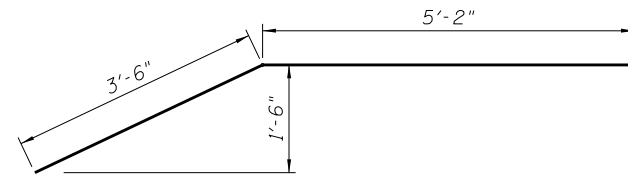
SHEET NO. 3 OF 7 SHEETS

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308	103BR-4	JO DAVIESS	159	113
CONTRACT NO. 64E08				

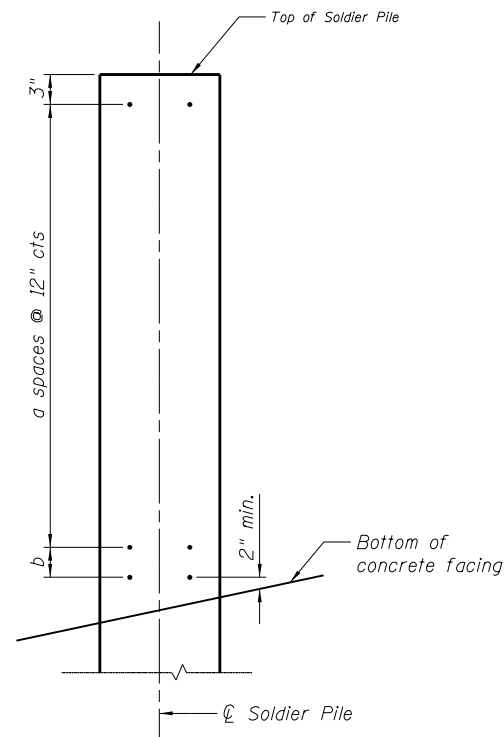
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SOLDIER PILE DATA

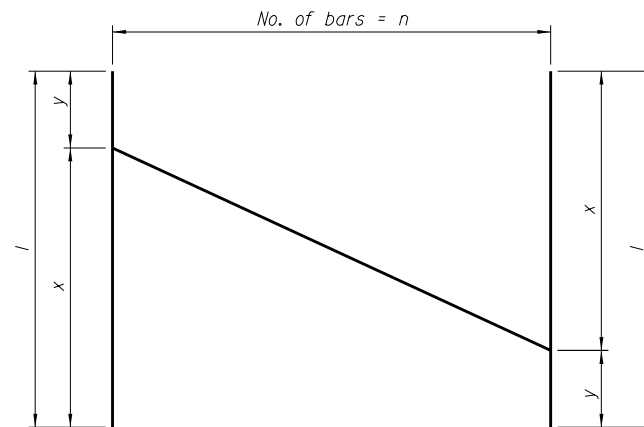
Panel	Soldier Pile Designation	Top of soldier Pile Elevation	Estimated Top of Rock Elevation	Bottom of Soldier Pile Elevation	Top of Concrete Encasement Elevation	Top of C.L.S.M. Elevation	Stud Shear Connector Data		
							a	b	Total/Pile
A	A ₁ (W Section)	626.70	615.20	610.20	619.80	626.10	6	9"	16
	A ₂ (W Section)	626.45	615.20	610.20	620.25	625.90	6	0	14
B	B ₁ (W Section)	626.21	615.20	610.20	620.70	625.67	5	0	12
	B ₂ (W Section)	625.96	615.20	610.20	621.15	625.44	4	4"	12
	B ₃ (W Section)	627.41	615.20	610.20	621.58	626.90	5	0	12
C	C ₁ (Built-Up Sect.)	627.41	615.20	610.20	621.78	626.90	5	0	24
	C ₂ (W Section)	627.45	615.20	610.20	621.78	626.90	5	0	12
Total									102



BAR h₃(E)



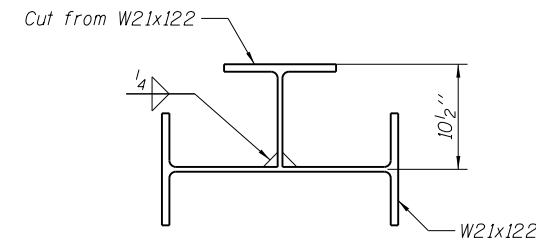
SHEAR STUD CONNECTOR SPACING



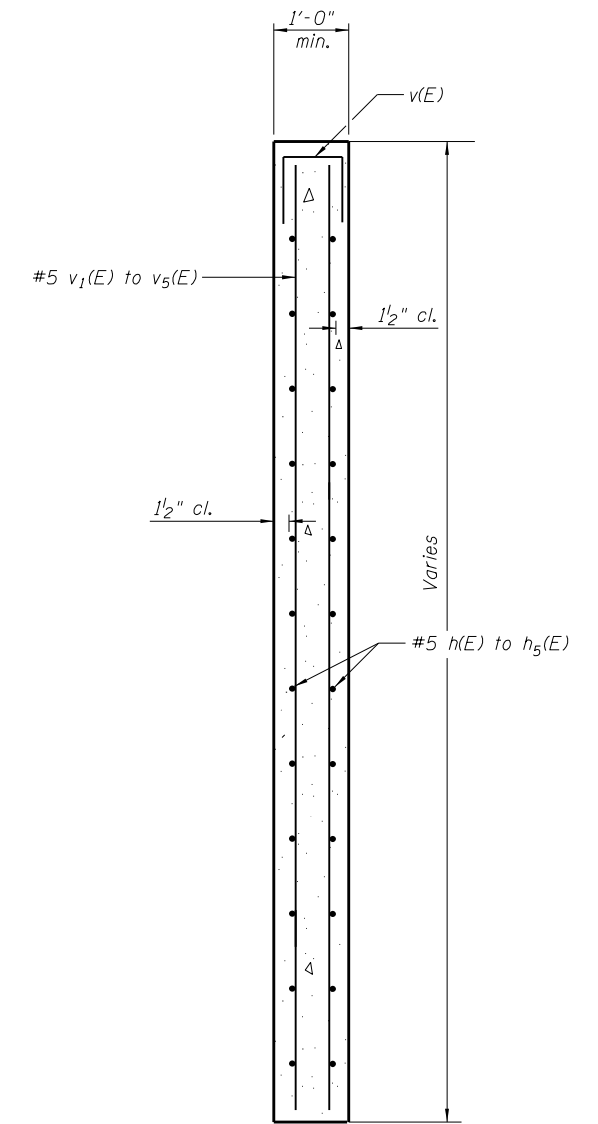
BAR CUTTING DIAGRAM

BAR DIMENSIONS

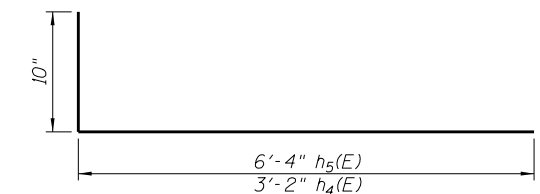
BAR	n	x	y	l
v ₁ (E)	16	10'-5"	8'-11"	19'-4"
v ₂ (E)	12	8'-6"	7'-6"	16'-0"
v ₃ (E)	3	8'-8"	7'-8"	16'-4"
v ₄ (E)	6	8'-8"	8'-3"	16'-11"



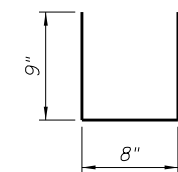
BUILT-UP SECTION



SECTION A-A



BARS h₄(E) to h₅(E)



BAR v(E)

FILE NAME = Z64E08-004-Soldier Pile Wall Data.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT...PDF...1x17...plc1g



USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

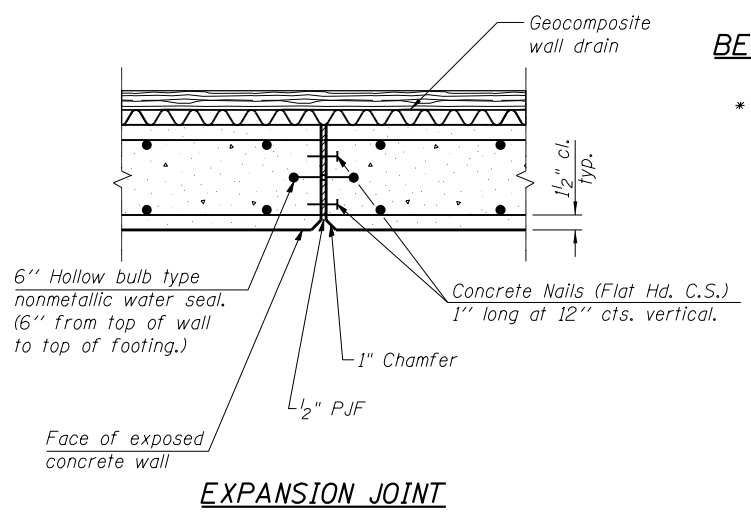
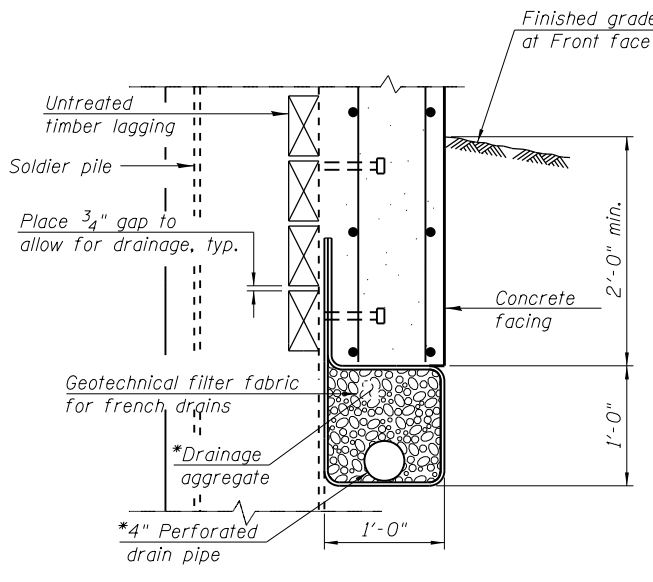
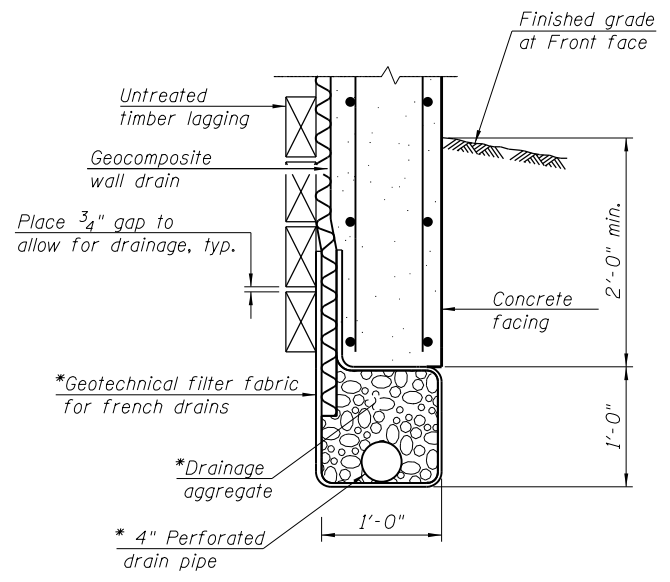
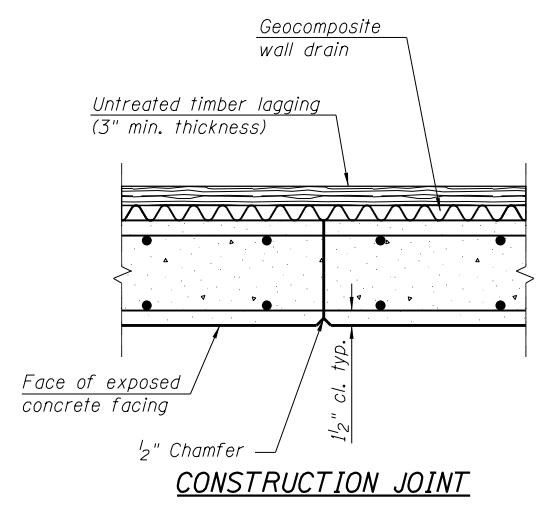
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOLDIER PILE WALL DATA
 RETAINING WALL #1**

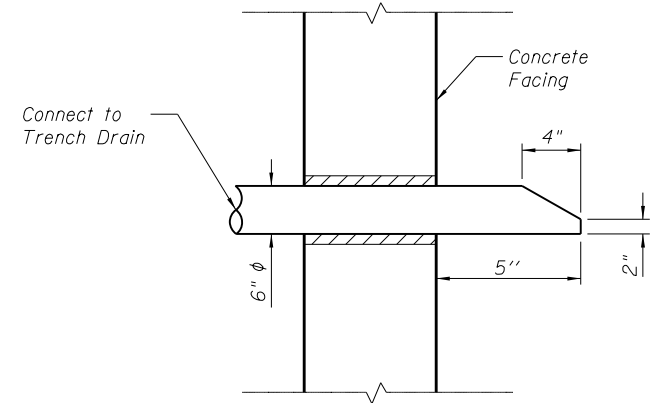
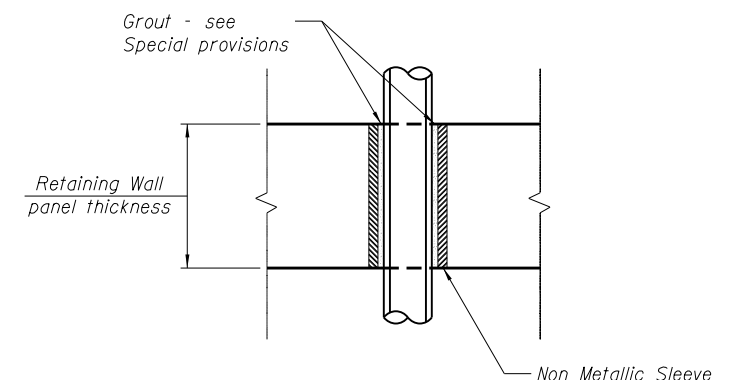
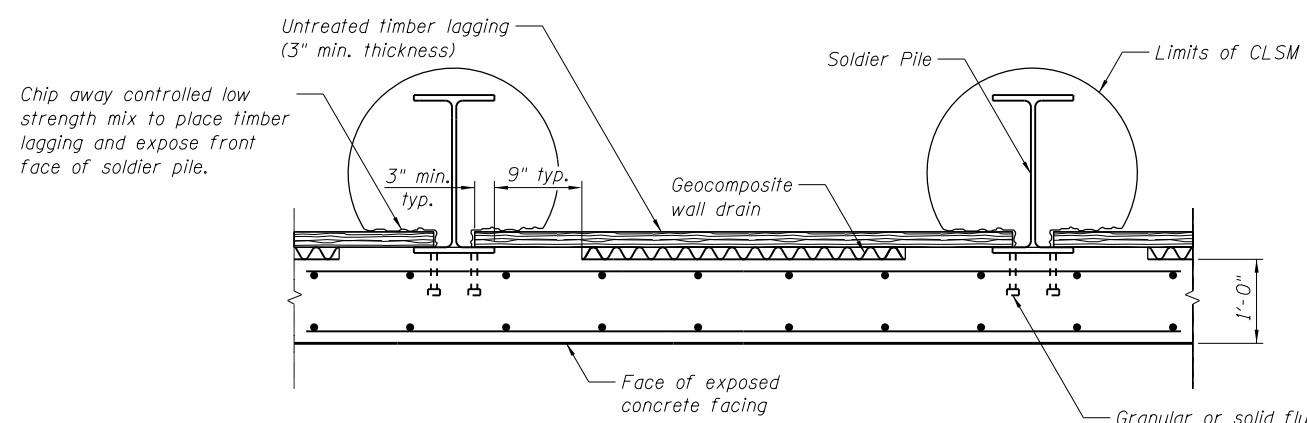
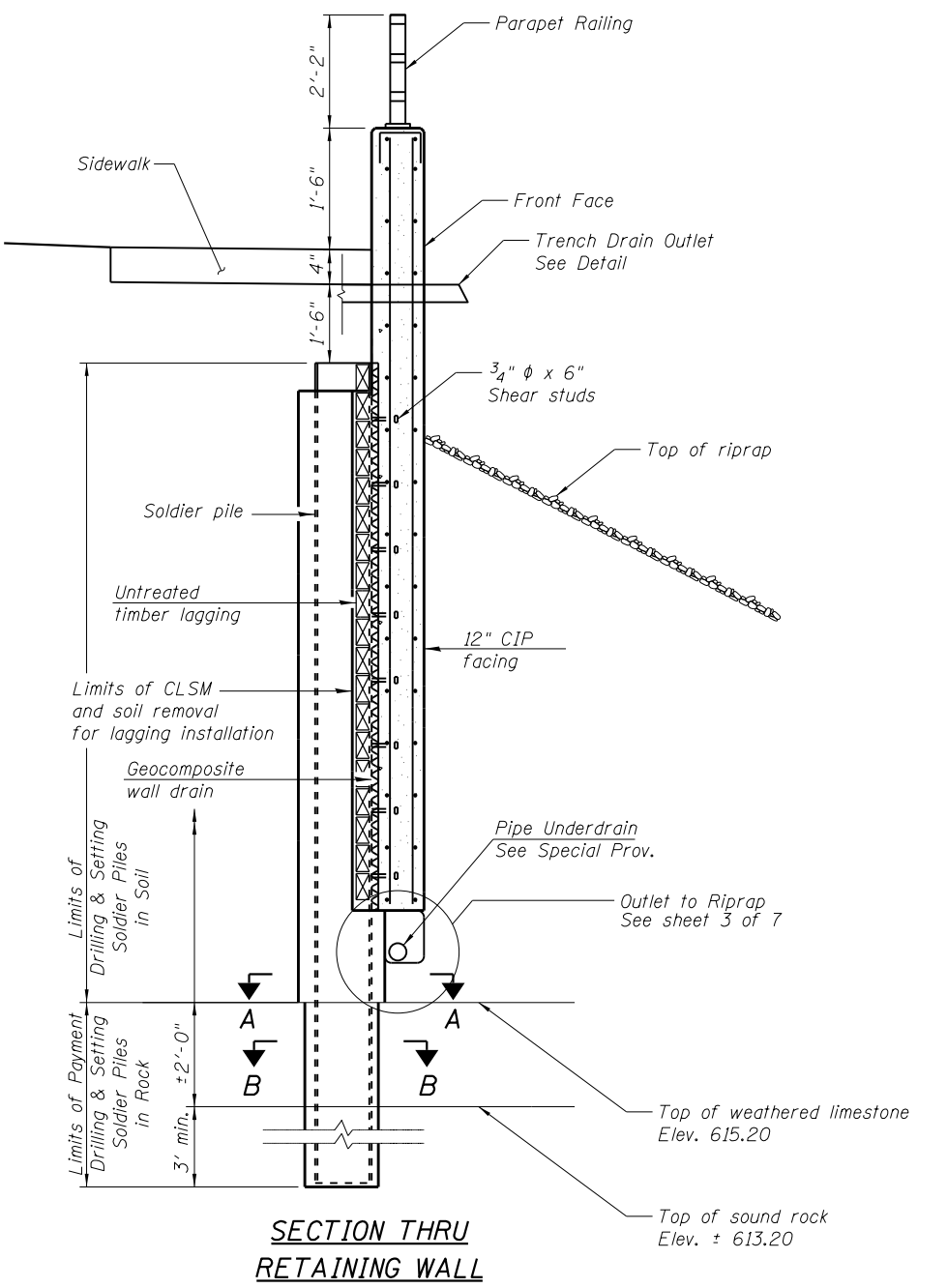
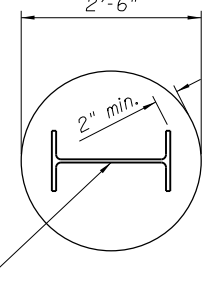
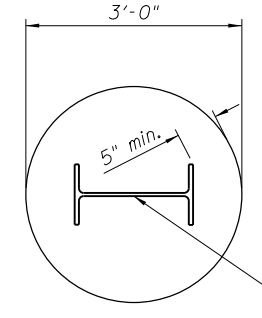
SHEET NO. 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	114
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT



* Cost included in Pipe Underdrains for Structures, 4"



TRENCH DRAIN OUTLET DETAIL

Granular or solid Flux filled headed stud conforming to Article 1006.32 of the Standard Specifications Automatically end welded.

FILE NAME = Z64E08-005-Soldier Pile Wall Detail.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT.PDF...11x17.pltcf9



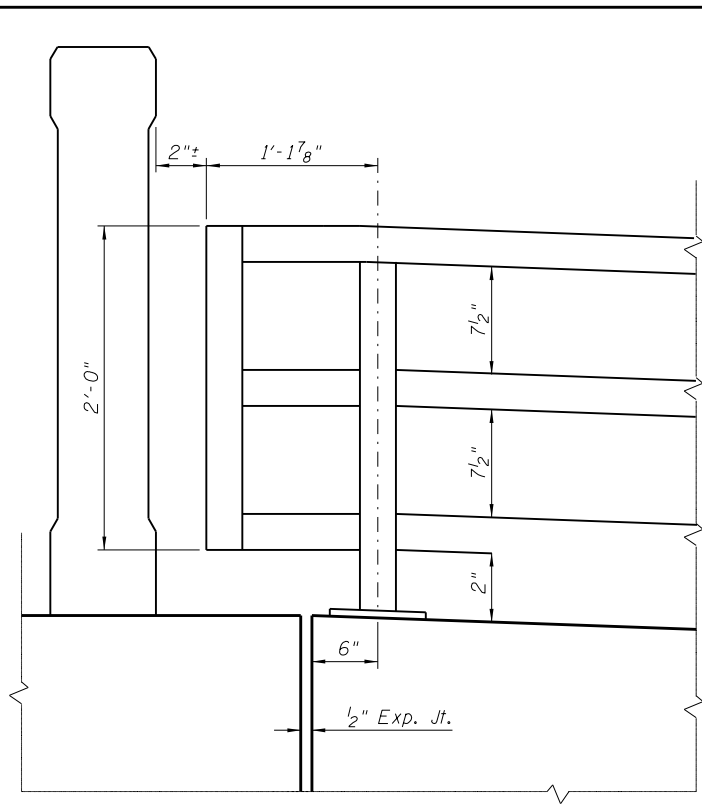
USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

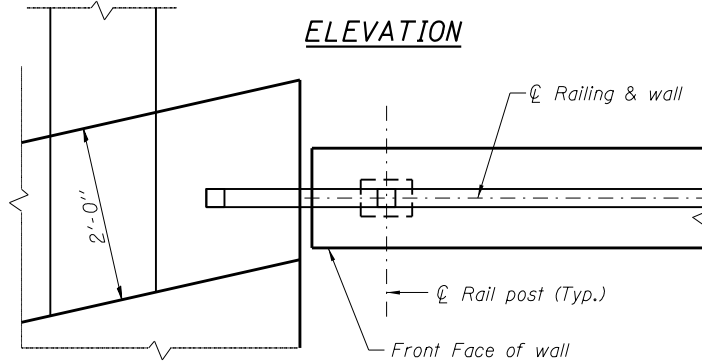
**SOLDIER PILE WALL DETAILS
 RETAINING WALL #1**

SHEET NO. 5 OF 7 SHEETS

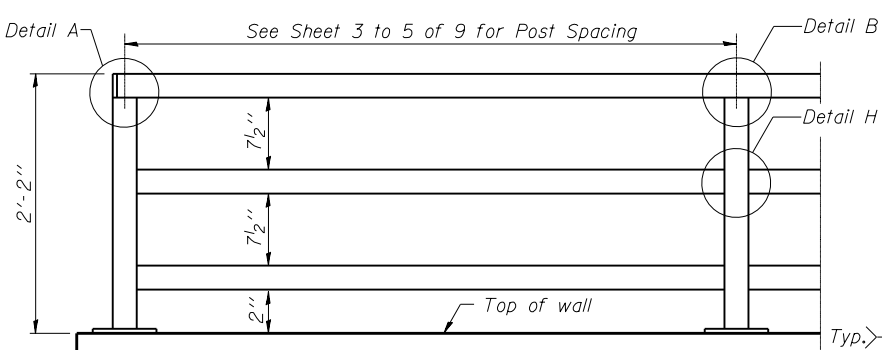
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	115
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				



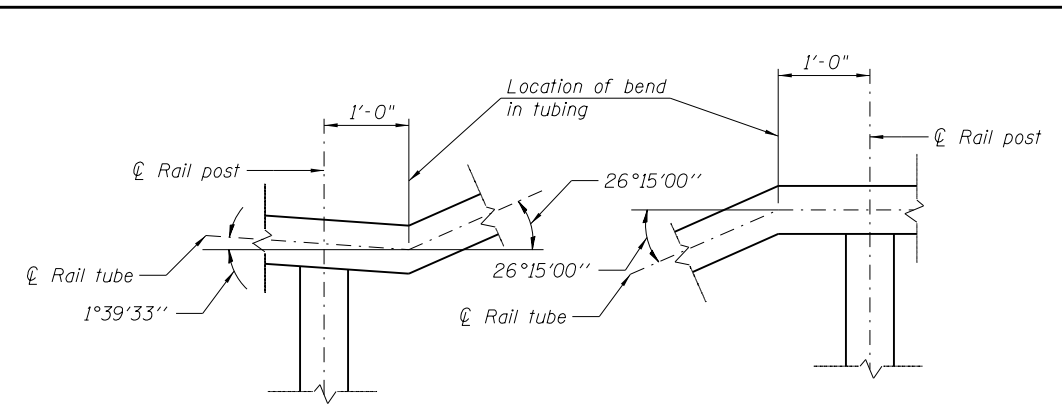
ELEVATION



PLAN

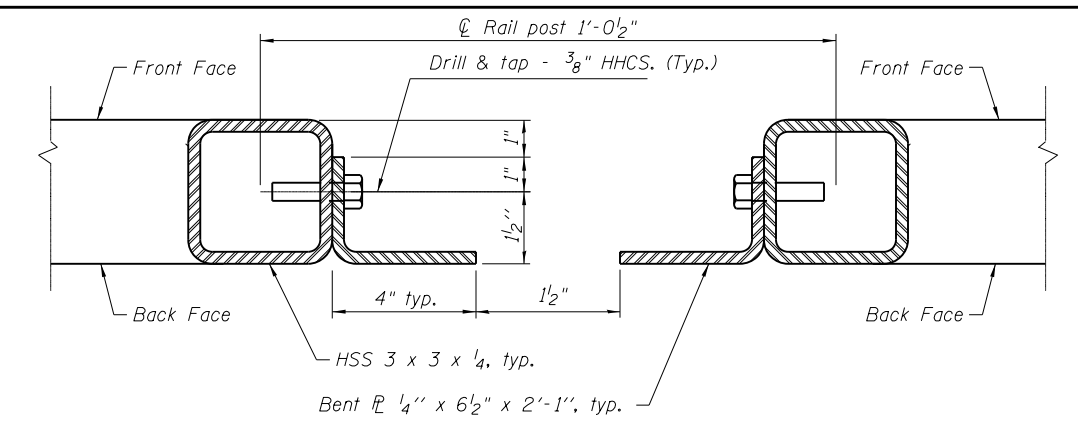


PARAPET RAILING ELEVATION
(Inside Face of Three Element Rail)



DETAIL D

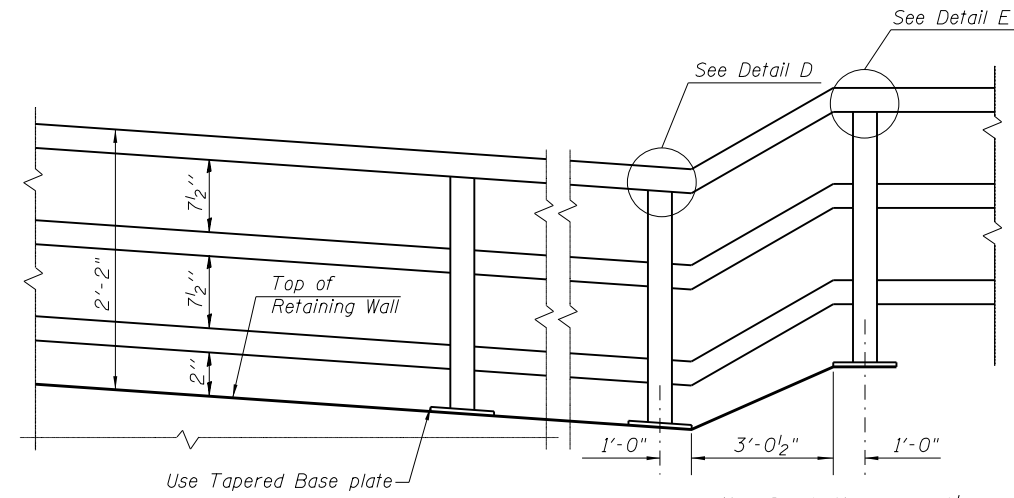
DETAIL E



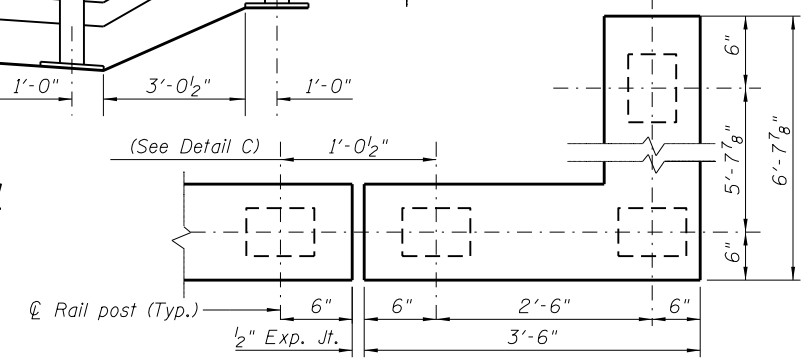
DETAIL A

DETAIL B

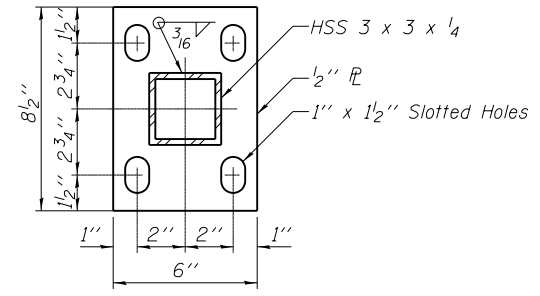
DETAIL H



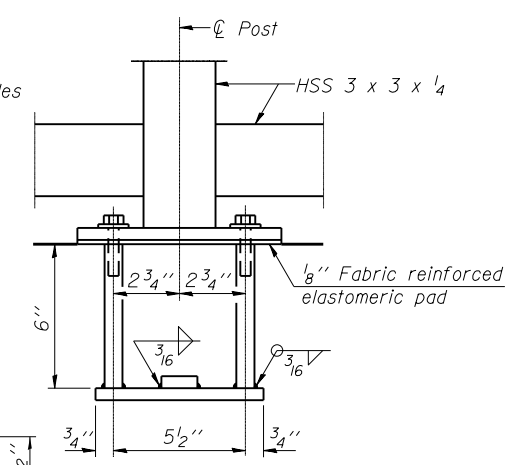
RETAINING WALL RAILING ELEVATION
(Inclined top of wall)



SECTION THRU PARAPET

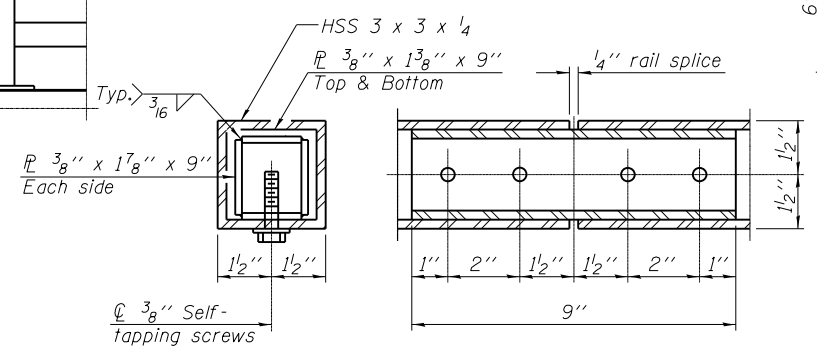


BASE PLATE



ANCHOR BOLT DETAILS

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



RAIL SPLICE

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	45

NOTE: All steel railing elements shall be galvanized according to article 509.05 of the Standard Specifications.

HHCS designates Hexagonal head cap screws
HHS designates hollow structural section.

FILE NAME = Z64E08-006-Railing.dgn
MODEL = Default
PLOT DRIVER = V8...IDOT...PDF...11x17.plt



USER NAME =	DESIGNED -	REVISED
PLOT SCALE =	CHECKED -	REVISED
PLOT DATE =	DRAWN -	REVISED
	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET RAILING
RETAINING WALL #1

SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	116

CONTRACT NO. 64E08
ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 3/22/10

ROUTE FA 308 DESCRIPTION P92-057-08 Bridge over Apple River, IL 84, 100' S. of S. Hanover Hill Road LOGGED BY W. Garza
 SECTION 103 BR-4 LOCATION Hanover Twp. - 9SW, SEC., TWP. 26N, RNG. 1W
 COUNTY JoDaviess DRILLING METHOD _____ HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	DEPTH (ft)	BLOWS (/ft)	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev. _____ ft	
					Stream Bed Elev. <u>78.50</u> ft	
BORING NO. <u>B-2</u> Station <u>318+30</u> Offset <u>9.00ft Lt CL</u> Ground Surface Elev. <u>99.00</u> ft					Groundwater Elev.:	
					First Encounter _____ ft	Upon Completion _____ ft
					After _____ Hrs.	_____ ft
8.5" Asphalt, 9" Concrete						
VERY STIFF dark brown LOAM	97.00	1				
		7	2.5	16.0		
	95.50	8	P			
STIFF gray SILTY CLAY LOAM		3				
	93.00	2	1.9	32.0		
		4	B			
MEDIUM tan SILTY LOAM		1				
	90.50	3	0.7	27.0		
		3	B			
STIFF tan SILTY CLAY LOAM with LIMESTONE fragments		3				
	88.00	5	1.0	28.0		
		6	P			
HARD tan CLAY		3				
	85.00	5	5.6	18.0		
		8	B			
VERY DENSE tan weathered LIMESTONE		7				
		100/5'				
Auger Refusal at 16'	83.00					
Borehole continued with rock coring.						

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)



ROCK CORE LOG

Date 3/22/10

ROUTE FA 308 DESCRIPTION P92-057-08 Bridge over Apple River, IL 84, 100' S. of S. Hanover Hill Road LOGGED BY W. Garza
 SECTION 103 BR-4 LOCATION Hanover Twp. - 9SW, SEC., TWP. 26N, RNG. 1W
 COUNTY JoDaviess CORING METHOD _____

STRUCT. NO. Station	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
BORING NO. <u>B-2</u> Station <u>318+30</u> Offset <u>9.00ft Lt CL</u> Ground Surface Elev. <u>99.00</u> ft							
Dolomite: light tan to gray, dense & mostly aphanitic. t.s.f.: 80.8 to 80.3		83.00	1	90	33	2.2	886.0
Dolomite: gray, as above, massively bedded, some pitting is apparent. t.s.f.: 75.5 to 75.1		78.00	2	100	72	2.2	663.0
Dolomite: as above t.s.f.: 70.1 to 69.6		73.00	3	100	52	1.2	1003.0
End of Boring		68.00					

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

FILE NAME = Z64E08-007-Bor-103BR-4.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT...PDF...11x17...e1c1g



USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
RETAINING WALL #1

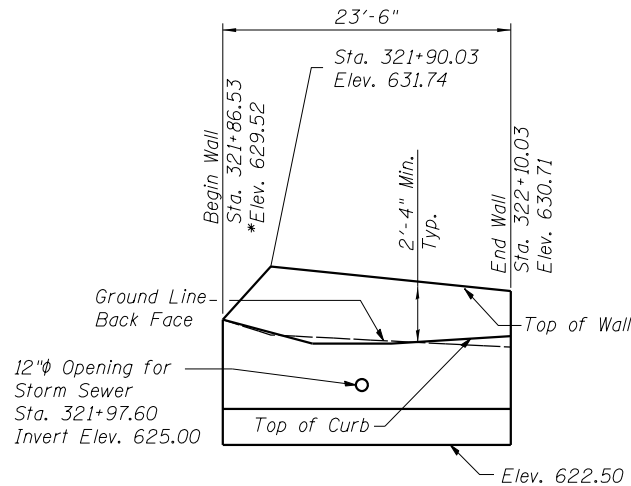
SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	117
CONTRACT NO. 64E08				

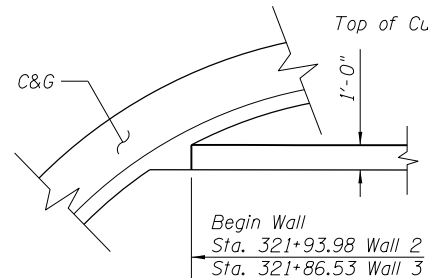
ILLINOIS FED. AID PROJECT

Bench Mark: Top North Bolt on rim of pipe hydrant at Southeast corner of Washington Street and Monroe Street. Elevation = 631.25

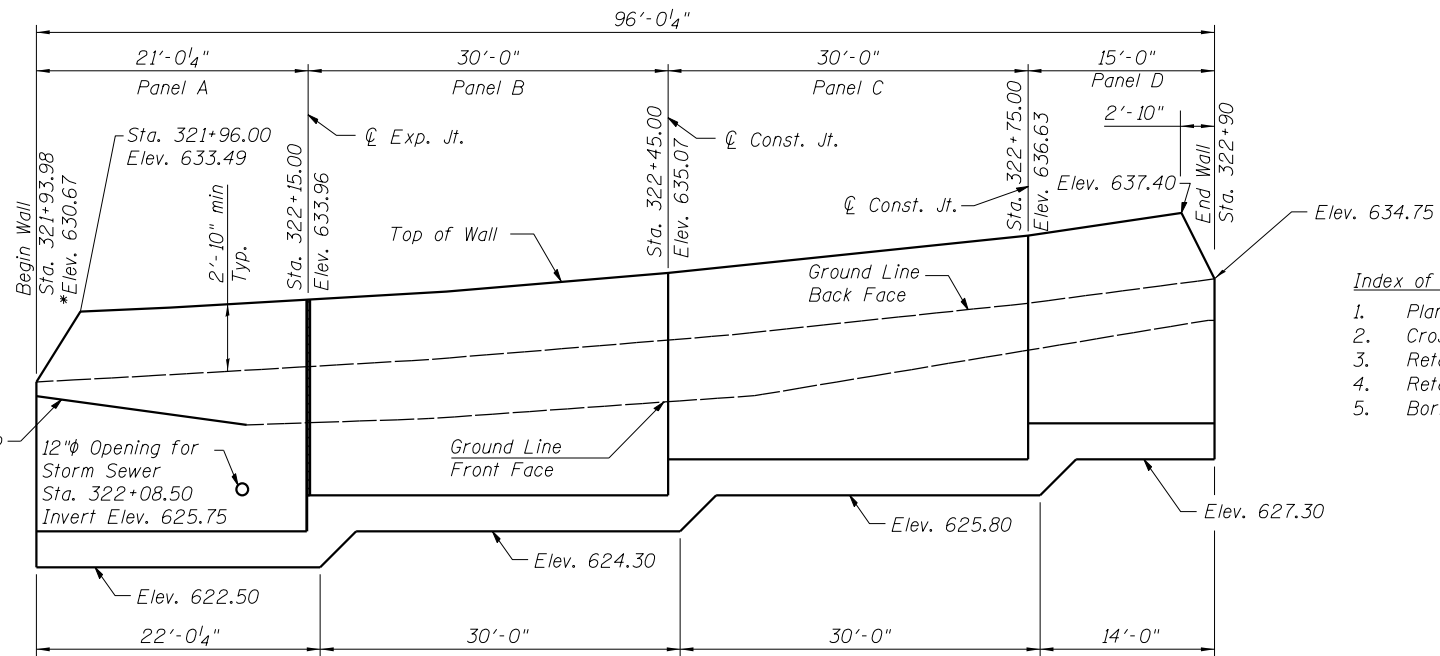
* Elevations are to coincide with top of Roadway C&G Elevation at that location



ELEVATION
Retaining Wall #3



DETAIL A



ELEVATION
Retaining Wall #2

Index of Sheets

1. Plan and Elevation
2. Cross Sections and Total Bill of Material
3. Retaining Wall #2 - Details
4. Retaining Wall #3 - Details
5. Boring Log

Construction of the proposed retaining wall shall be accomplished in accordance with the provisions of the special provision for CONSTRUCTION VIBRATION AND MONITORING.

DESIGN SPECIFICATIONS

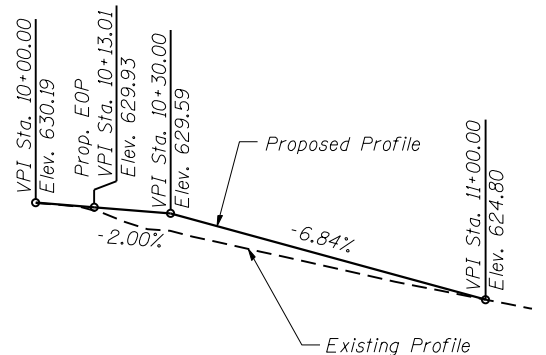
2010 AASHTO LRFD Bridge Design Specifications, 5th Edition and 2010 Interims

DESIGN LOADING

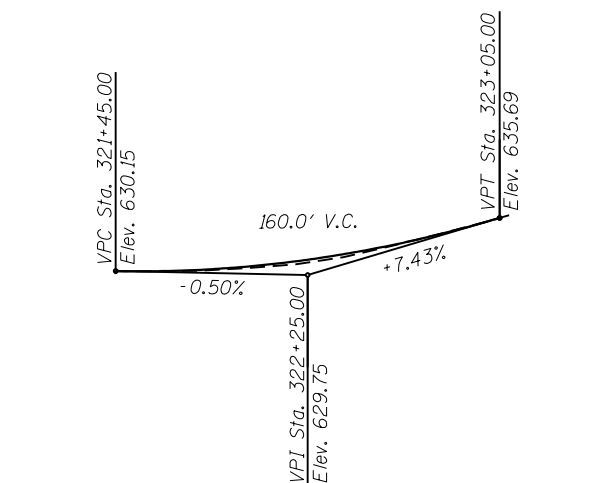
Equivalent Fluid Lateral Soil Pressure = 50 lbs/cu.ft.
Surcharge load of 120 lbs/sq.ft.

DESIGN STRESSES

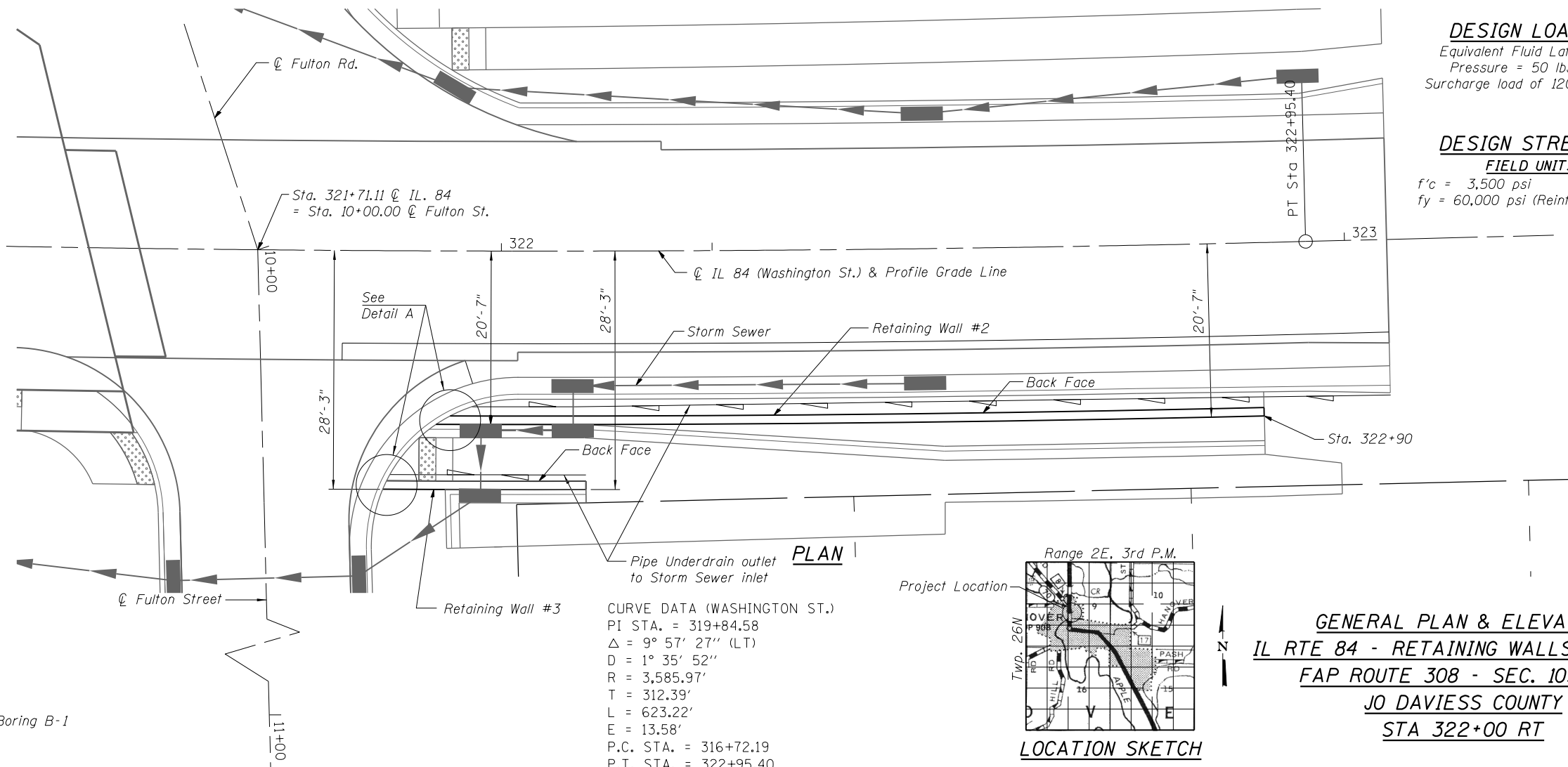
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)



PROFILE GRADE
ALONG C&G ROADWAY (FULTON STREET)

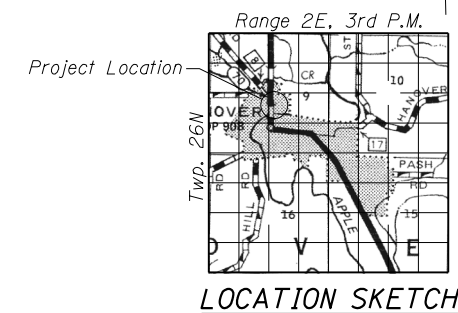


PROPOSED PROFILE GRADE
ALONG C&G ROADWAY (WASHINGTON STREET)



PLAN

CURVE DATA (WASHINGTON ST.)
PI STA. = 319+84.58
 $\Delta = 9^\circ 57' 27''$ (LT)
D = $1^\circ 35' 52''$
R = 3,585.97'
T = 312.39'
L = 623.22'
E = 13.58'
P.C. STA. = 316+72.19
P.T. STA. = 322+95.40



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL RTE 84 - RETAINING WALLS #2 & #3
FAP ROUTE 308 - SEC. 103BR-4
JO DAVIESS COUNTY
STA 322+00 RT

FILE NAME = Z64E08-001-GPE.dgn
MODEL = Default
PLOT DRIVER = VBA_IDOT_PDF_11x17.pltcf9



USER NAME = kchapman
PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 8/6/2013

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
RETAINING WALLS #2 & #3

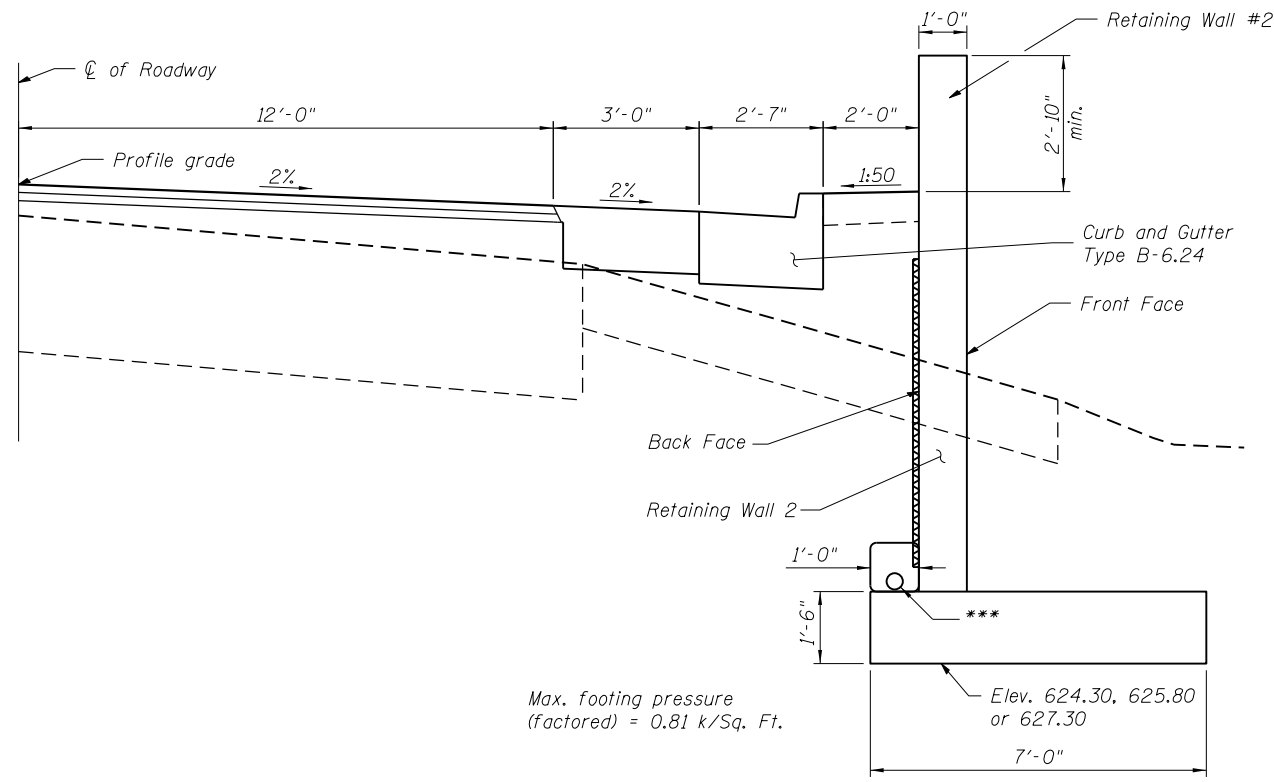
SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	118
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

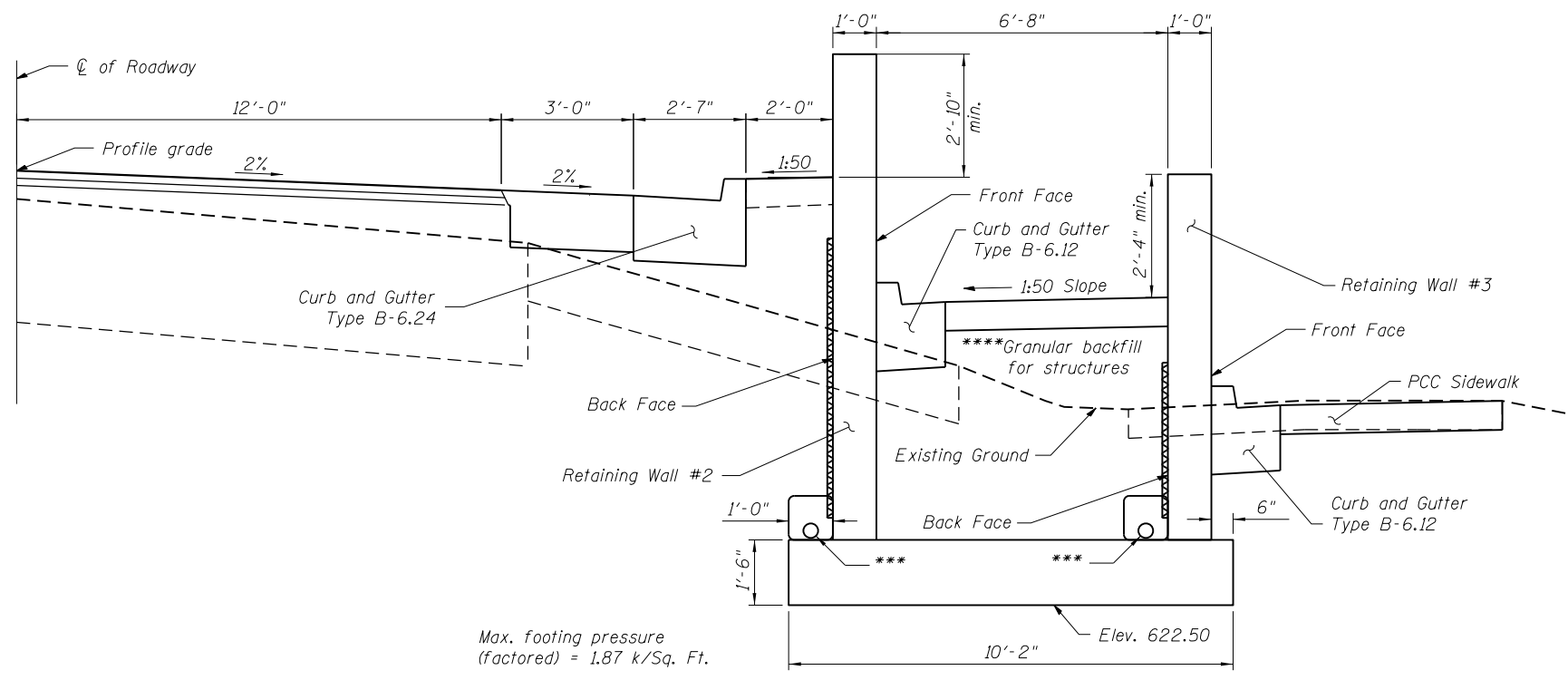
ITEM	UNIT	Quantity
Structure Excavation	Cu. Yd.	252
Concrete Structures	Cu. Yd.	85.8
Reinforcement Bars, Epoxy Coated	Pound	16,880
Geocomposite Wall Drain	Sq. Yd.	77
Granular Backfill for Structures	Cu. Yd.	95
Pipe Underdrains for Structures, 4"	Foot	140



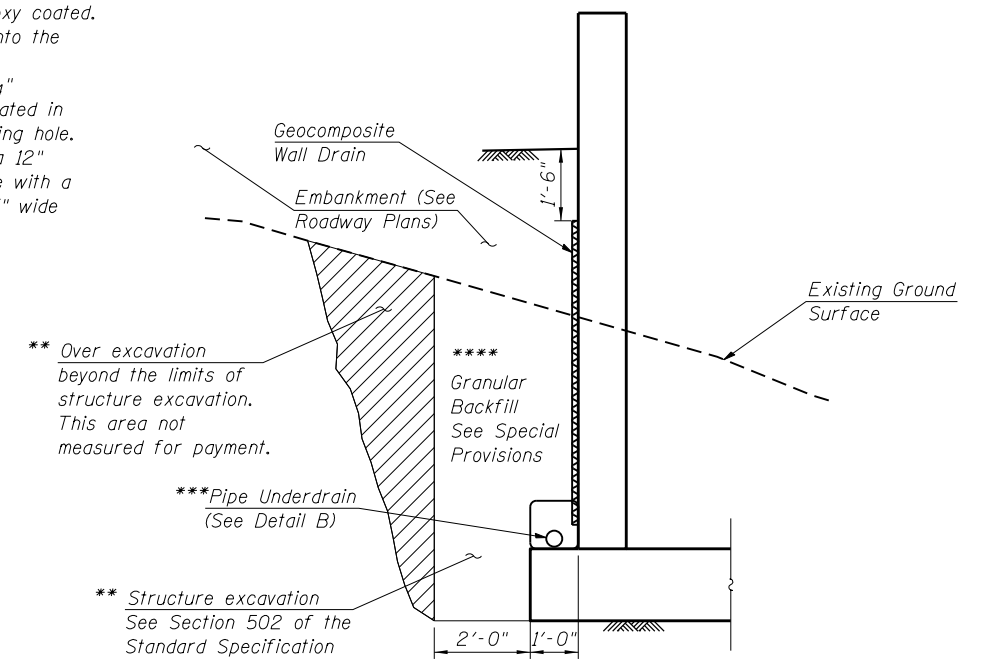
CROSS SECTION
(Near Panels B,C & D)

General Notes:

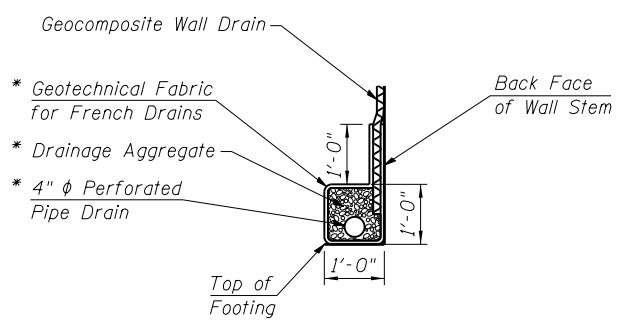
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Pipe Underdrains shall be connected to drain into the nearby inlets.
3. All exposed concrete edges shall be bevelled 3/4"
4. The opening for storm sewer shall be accommodated in the geocomposite wall drain by cutting a matching hole. The edge of the cut hole shall be covered by a 12" wide strip of geotextile fabric secured in place with a continuous application of contact adhesive or 3" wide plastic tape around the perimeter.



CROSS SECTION
(Near Panel A)



EXCAVATION & DRAIN DETAILS



DETAIL B

FILE NAME = Z64E08-002-Detail.dgn
MODEL = Default
PLOT DRIVER = V8...IDOT...PDF...11x17.plt



USER NAME = kchapman	DESIGNED -	REVISED
PLOT SCALE = 16x0.0000 '1' / in.	CHECKED -	REVISED
PLOT DATE = 8/6/2013	DRAWN -	REVISED
	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

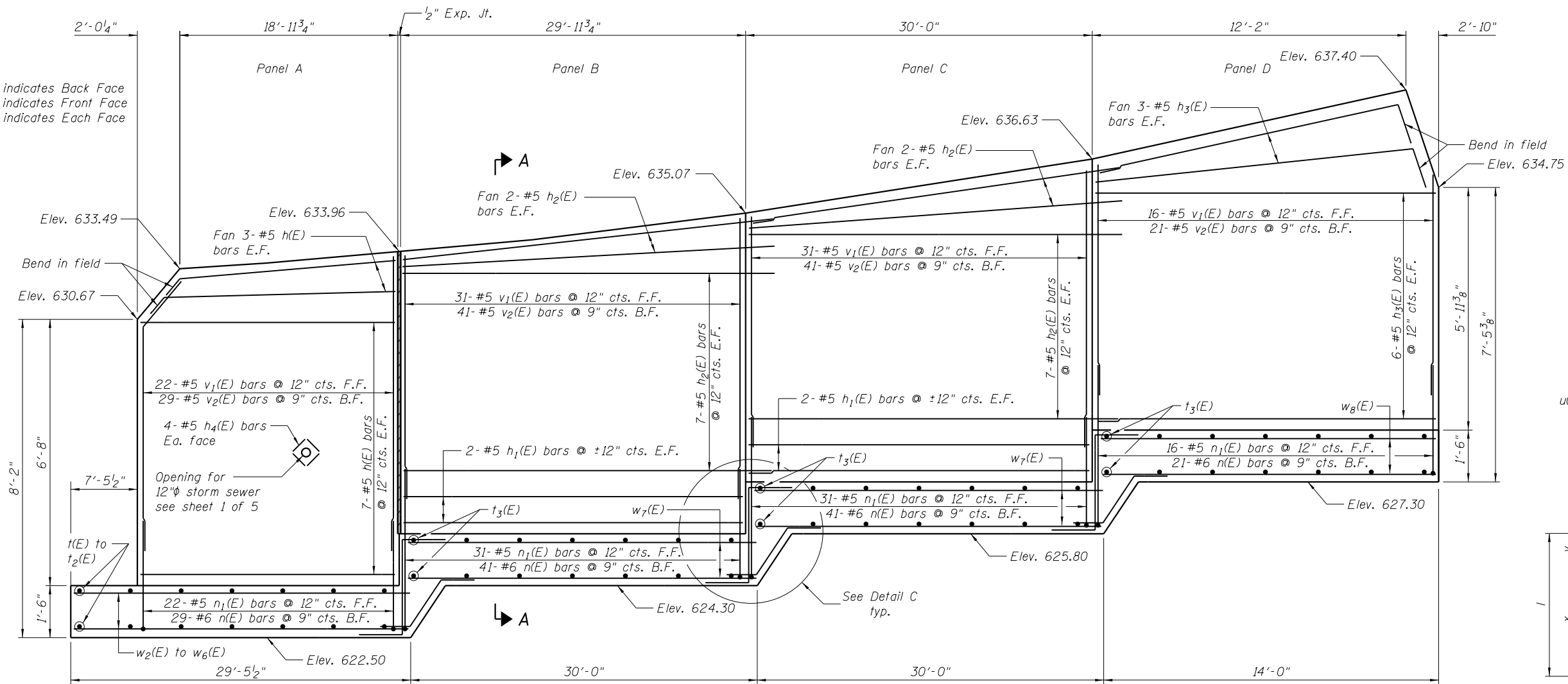
CROSS SECTIONS AND TOTAL BILL OF MATERIAL
RETAINING WALLS #2 & #3

SHEET NO. 2 OF 5 SHEETS

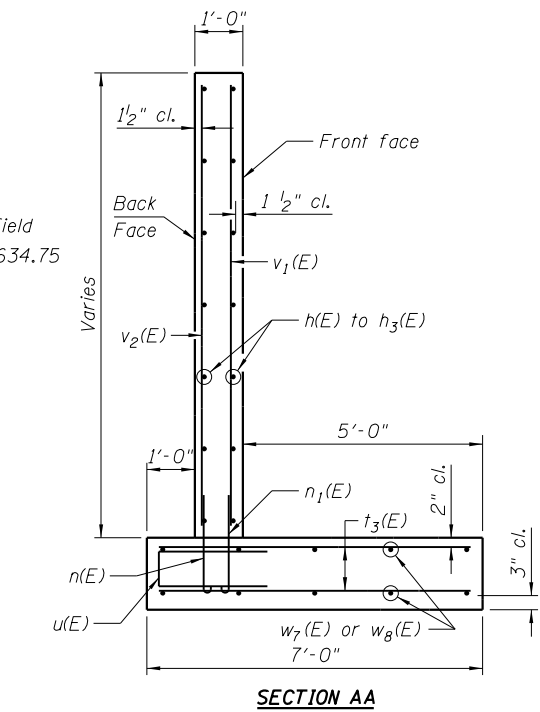
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	119
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

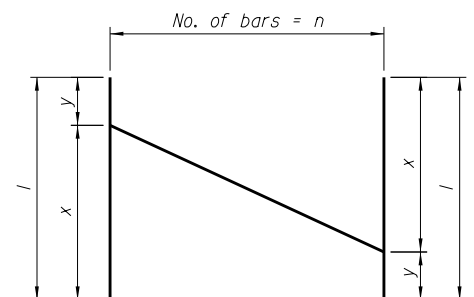
NOTE:
 B.F. indicates Back Face
 F.F. indicates Front Face
 E.F. indicates Each Face



ELEVATION



SECTION AA

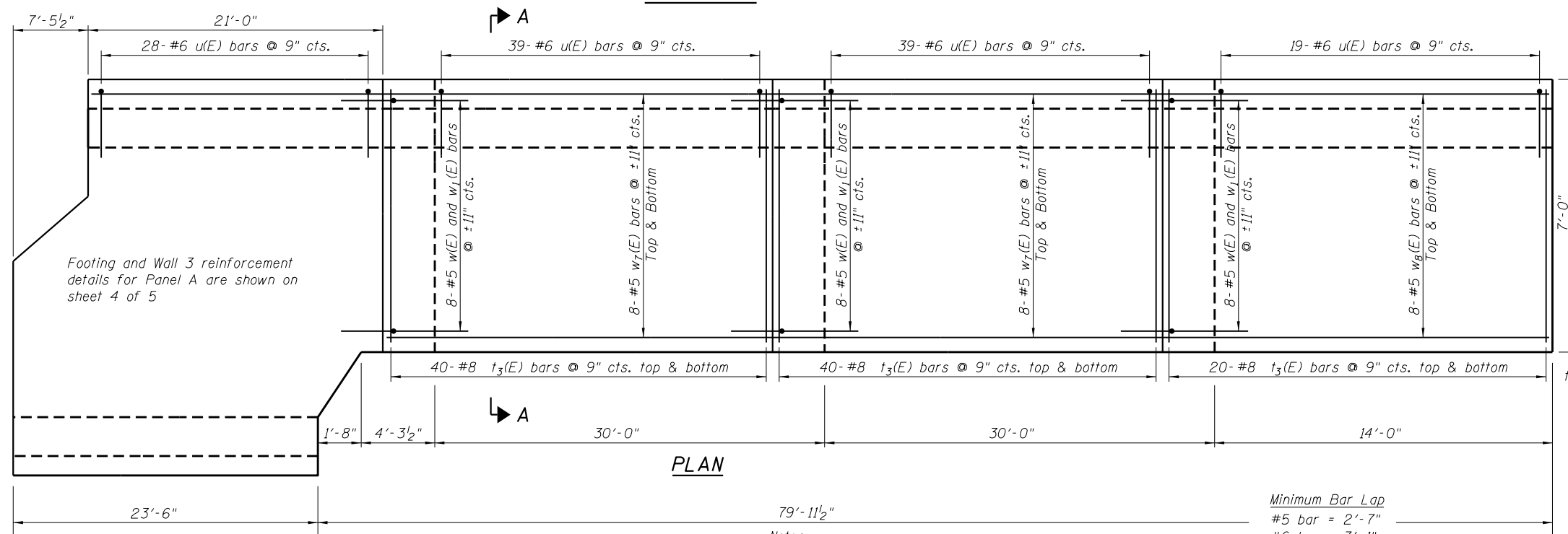


BAR CUTTING DIAGRAM

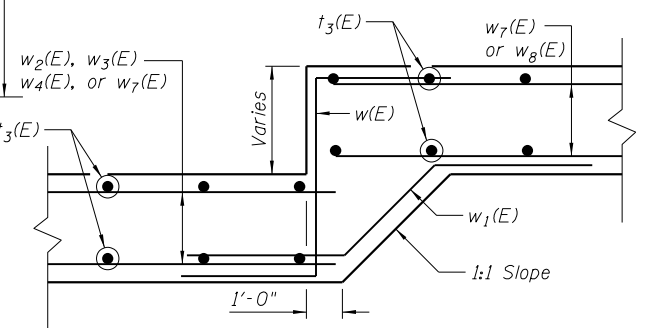
BAR CUTTING DIMENSIONS

BAR	n	x	y	l
t ₁ (E)	10	7'-0"	5'-3"	12'-3"
t ₂ (E)	3	8'-3"	7'-0"	15'-3"
w ₃ (E)	2	29'-0"	22'-0"	51'-0"
w ₅ (E)	2	24'-9"	23'-0"	47'-9"

* Order bars full length. Cut to fit as shown and use the remainder on the opposite face.



PLAN



DETAIL C

Notes:
 1. For Bar Details & Bill of Material see sheet 4 of 5

Minimum Bar Lap
 #5 bar = 2'-7"
 #6 bar = 3'-1"

FILE NAME = Z64E08-003-Rev Mat12.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT...PDF...11x17.plt



USER NAME = kchapman	DESIGNED -	REVISOR
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISION
PLOT DATE = 8/6/2013	DRAWN -	REVISION
	CHECKED -	REVISION

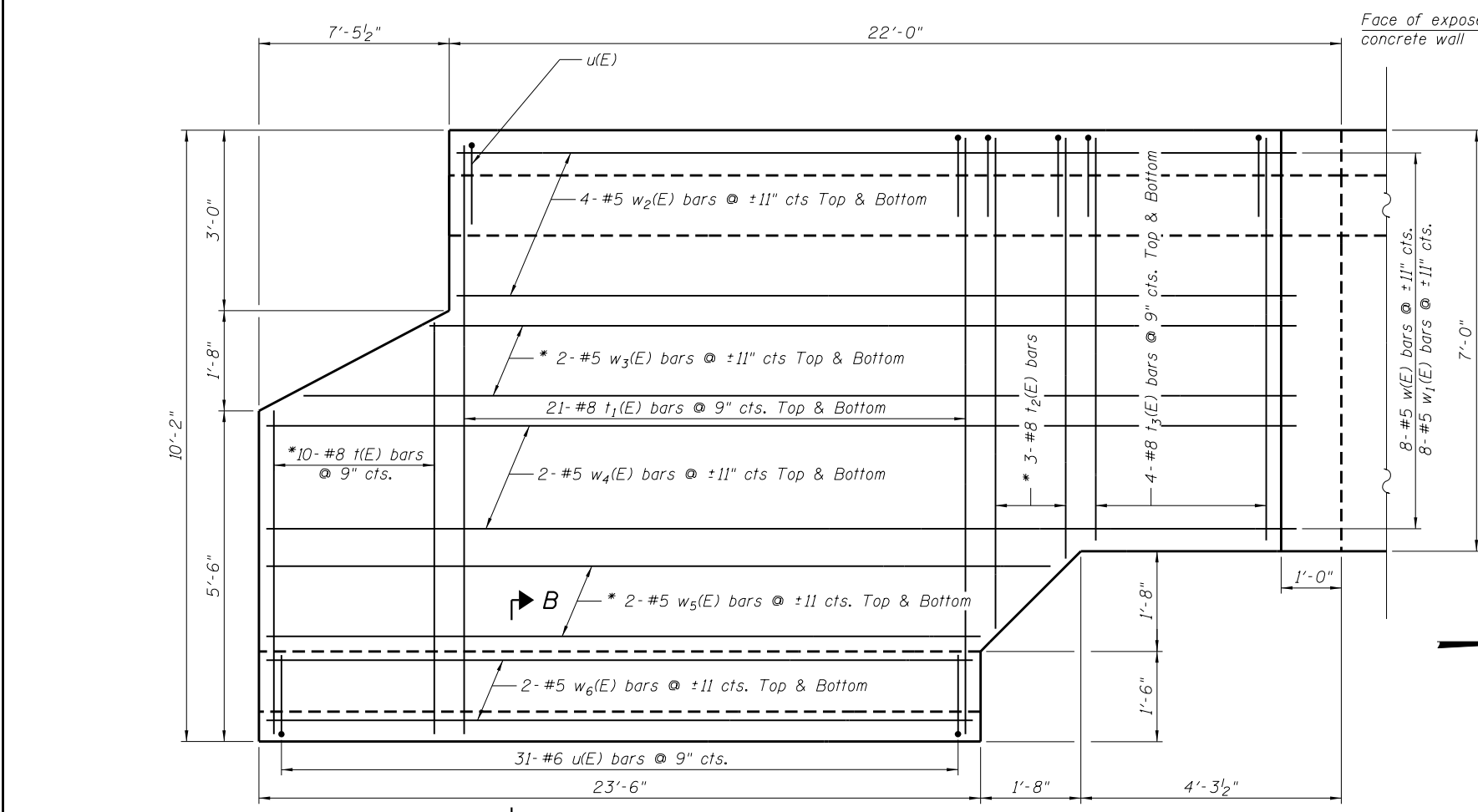
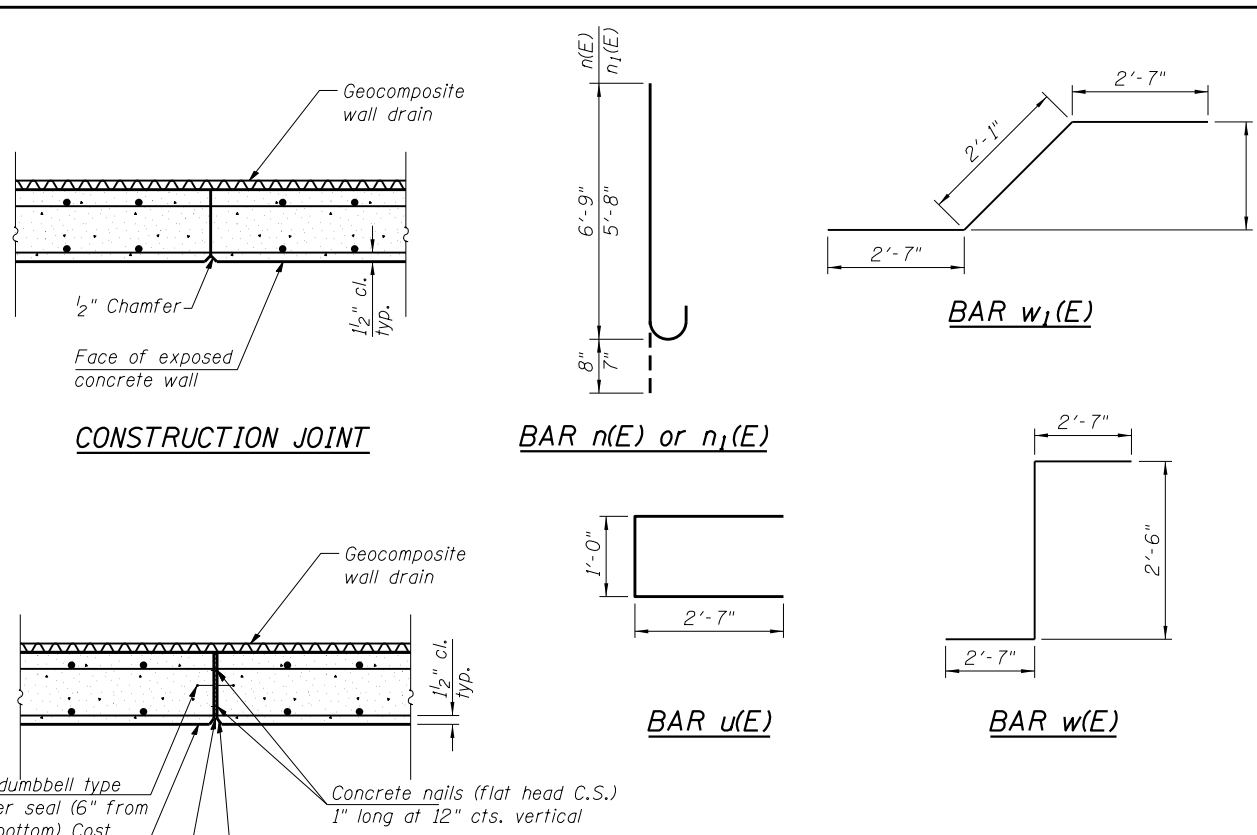
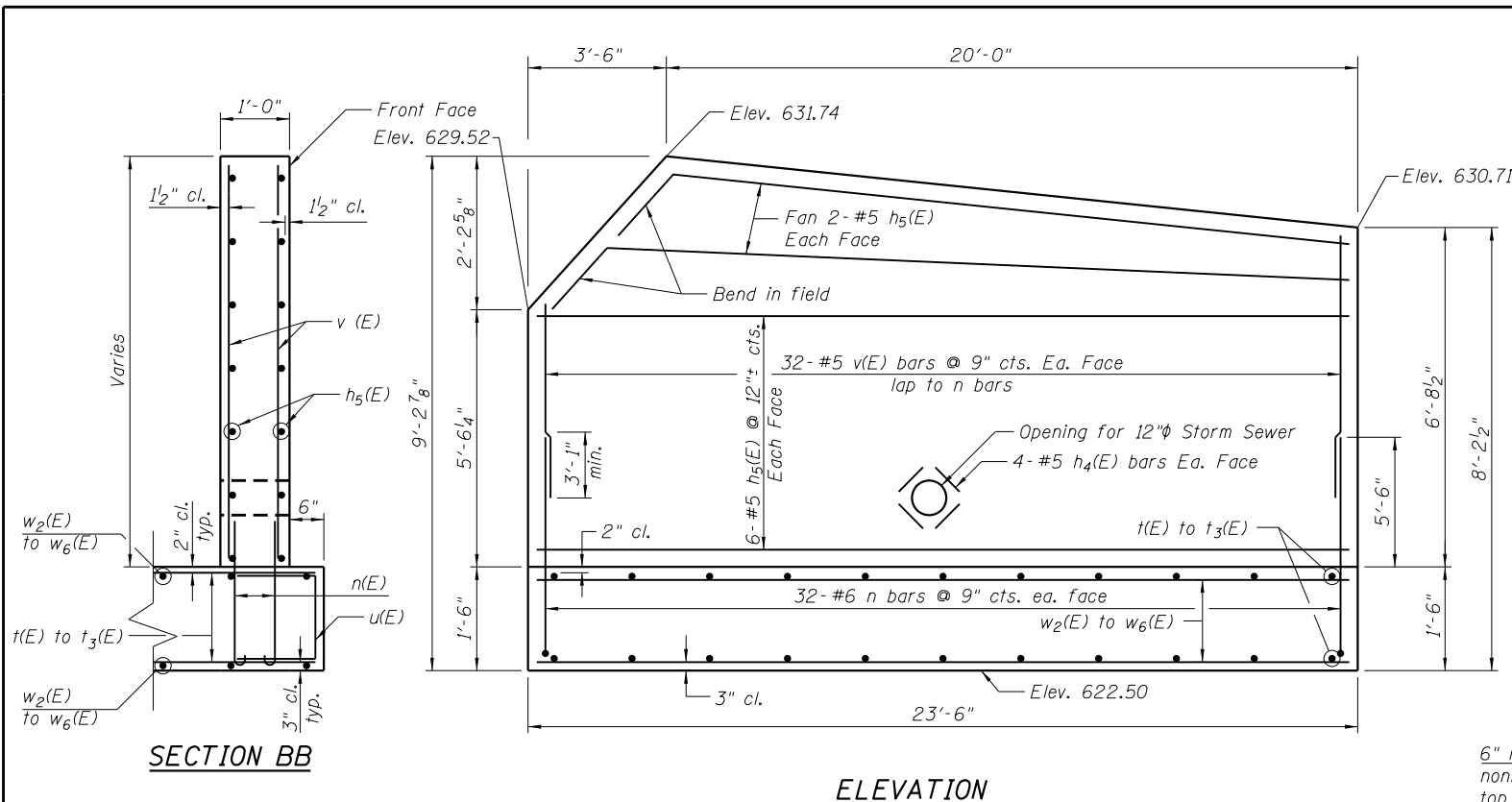
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL #2 - DETAILS
 RETAINING WALLS #2 & #3

SHEET NO. 3 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	120
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	20	#5	20'-8"	—
h1(E)	8	#5	29'-8"	—
h2(E)	36	#5	32'-6"	—
h3(E)	18	#5	14'-9"	—
h4(E)	16	#5	1'-6"	—
h5(E)	16	#5	23'-2"	—
n(E)	196	#6	7'-5"	U
n1(E)	100	#5	6'-3"	U
t(E)	10	#8	12'-3"	—
t1(E)	42	#8	9'-10"	—
t2(E)	3	#8	15'-3"	—
t3(E)	228	#8	6'-8"	—
u(E)	156	#6	6'-2"	□
v(E)	64	#5	5'-3"	—
v1(E)	100	#5	7'-9"	—
v2(E)	132	#5	7'-6"	—
w(E)	24	#5	7'-8"	—
w1(E)	24	#5	7'-3"	—
w2(E)	8	#5	20'-9"	—
w3(E)	2	#5	51'-0"	—
w4(E)	4	#5	28'-3"	—
w5(E)	2	#5	47'-9"	—
w6(E)	4	#5	23'-0"	—
w7(E)	32	#5	29'-8"	—
w8(E)	16	#5	14'-8"	—
Concrete Structures		Cu. Yd.	85.8	
Reinforcement Bar, Epoxy Coated		Lb.	16,880	

* See Bar Cutting Details on sheet 3 of 5

FILE NAME = Z64E08-004-Rev Wal13.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT...PDF...11x17.plt



USER NAME = kchapman	DESIGNED -	REVISD -
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISD -
PLOT DATE = 8/6/2013	DRAWN -	REVISD -
	CHECKED -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL #3 - DETAILS
 RETAINING WALLS #2 & #3

SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	121
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 3/16/10

ROUTE FA 308 DESCRIPTION P92-057-08 Bridge over Apple River, IL 84, 100' S. of S. Hanover Hill Road LOGGED BY W. Garza
SECTION 103 BR-4 LOCATION Hanover Twp. - 9SW, SEC. , TWP. 26N, RNG. 1W
COUNTY JoDaviess DRILLING METHOD _____ HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	Hrs.
					80.00	76.50				
BORING NO. <u>B-1</u>										
Station <u>321+39</u>										
Offset <u>55.00ft Rt CL</u>										
Ground Surface Elev. <u>96.30</u> ft										
brown SANDY LOAM				18.0						
	94.30	2								
STIFF brown SANDY LOAM		3	2.0	16.0						
	92.80	3	P							
STIFF brown SANDY CLAY LOAM		2								
	89.30	4	1.8	24.0						
		4	P							
MEDIUM brown SILTY CLAY LOAM		2	0.6	27.0						
	86.80	4	B							
STIFF brown SILTY CLAY LOAM		3	1.6	23.0						
	83.80	6	B							
Borehole continued with rock coring.		100/4*								

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)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

ROCK CORE LOG

Date 3/16/10

ROUTE FA 308 DESCRIPTION P92-057-08 Bridge over Apple River, IL 84, 100' S. of S. Hanover Hill Road LOGGED BY W. Garza
SECTION 103 BR-4 LOCATION Hanover Twp. - 9SW, SEC. , TWP. 26N, RNG. 1W
COUNTY JoDaviess CORING METHOD _____

STRUCT. NO.	DEPTH	CORING BARREL TYPE & SIZE	RECOVERY	R.Q.D.	CORE TIME	STRENGTH
Station	(ft)		(%)	(%)	(min/ft)	(tsf)
BORING NO. <u>B-1</u>		Core Diameter <u>2</u> in				
Station <u>321+39</u>		Top of Rock Elev. <u>83.80</u> ft				
Offset <u>55.00ft Rt CL</u>		Begin Core Elev. <u>83.30</u> ft				
Ground Surface Elev. <u>96.30</u> ft						
Dolomite: tan-gray, dense & occasionally pitted, top half is laminated and fissile.	1		100	28	2	666.0
t.s.f.: 80.9 to 80.4						
	78.30					
Dolomite: as above	2		100	30		451.0
t.s.f.: 74.6 to 74.1						
	73.30					
Dolomite: as above, though slightly more pitted & medium to thick bedded.	3		100	82	1.8	932.0
t.s.f.: 71.7 to 71.2						
	68.30					
End of Boring						

Color pictures of the cores _____
Cores will be stored for examination until _____

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = Z64E08-005-Boring-Log.dgn
MODEL = Default
PLOT DRIVER = V8...IDOT...PDF...1x17...e1e1g



USER NAME = kchapman	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE = 16x0.0000" 1' / in.	DRAWN -	REVISED
PLOT DATE = 8/6/2013	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
RETAINING WALLS #2 & #3

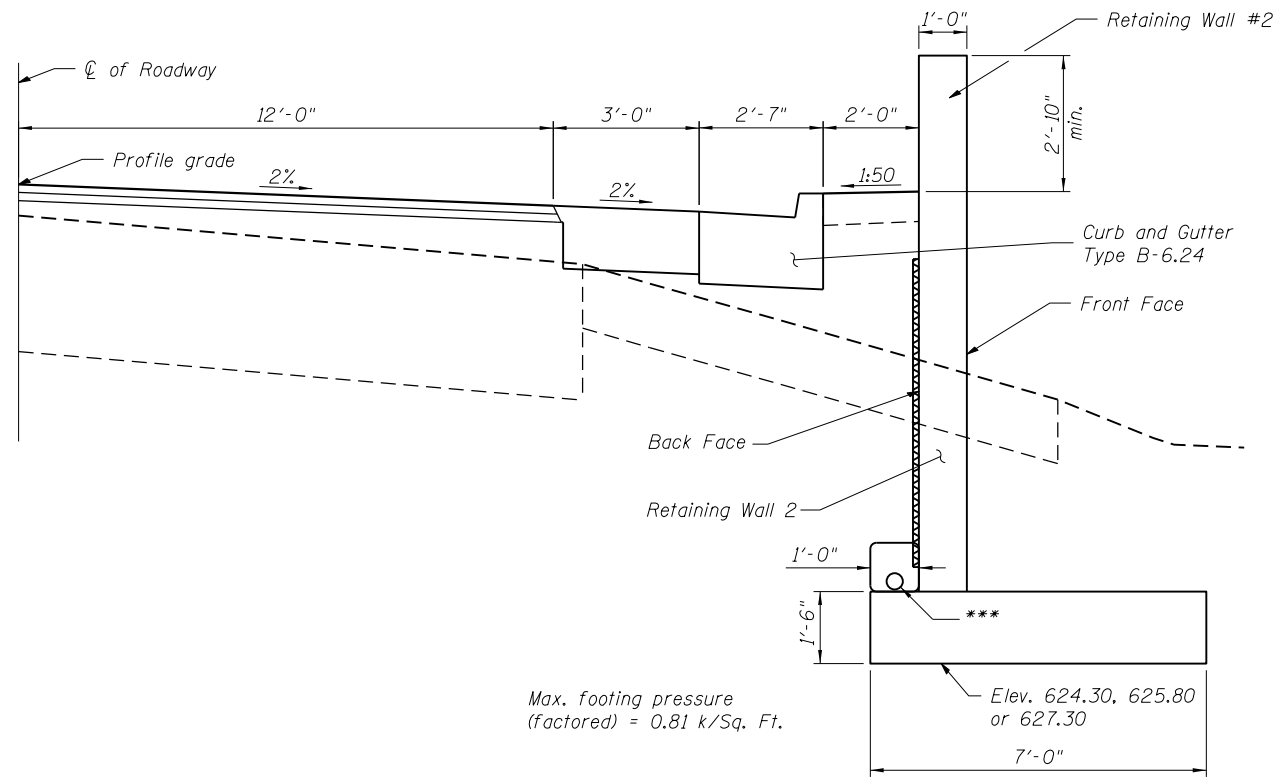
SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	122
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

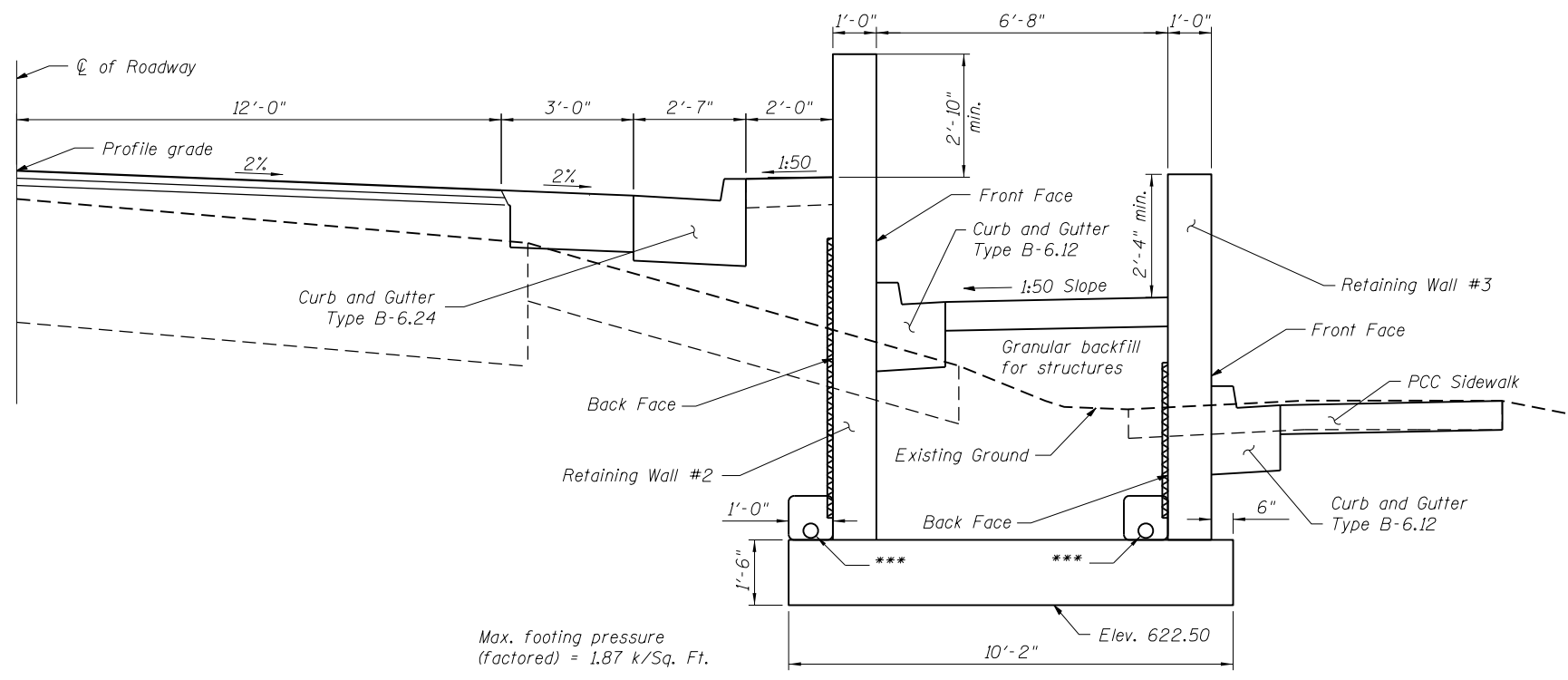
ITEM	UNIT	Quantity
Structure Excavation	Cu. Yd.	252
Concrete Structures	Cu. Yd.	85.8
Reinforcement Bars, Epoxy Coated	Pound	16,880
Geocomposite Wall Drain	Sq. Yd.	77
Granular Backfill for Structures	Cu. Yd.	95
Pipe Underdrains for Structures, 4"	Foot	140



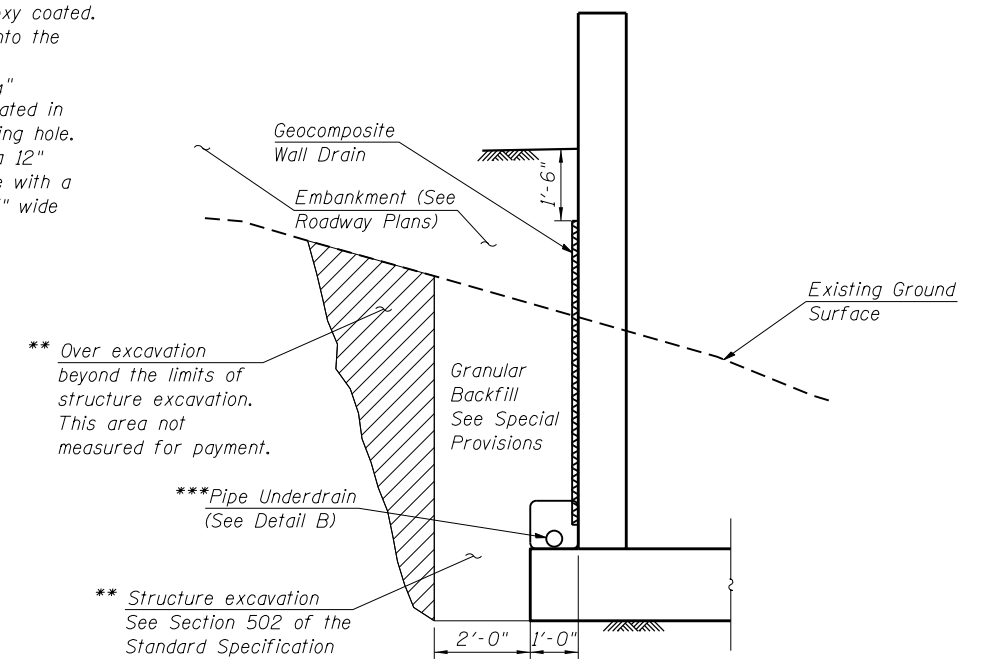
CROSS SECTION
(Near Panels B,C & D)

General Notes:

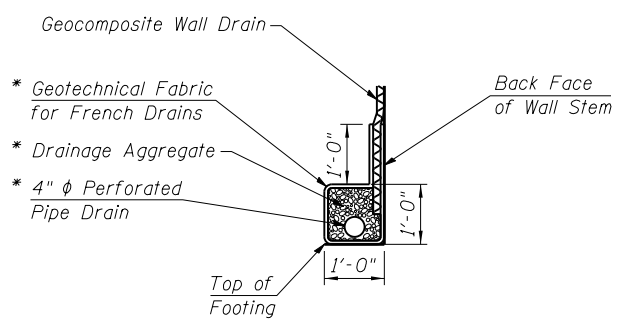
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Pipe Underdrains shall be connected to drain into the nearby inlets.
3. All exposed concrete edges shall be bevelled $\frac{3}{4}$ "
4. The opening for storm sewer shall be accommodated in the geocomposite wall drain by cutting a matching hole. The edge of the cut hole shall be covered by a 12" wide strip of geotextile fabric secured in place with a continuous application of contact adhesive or 3" wide plastic tape around the perimeter.



CROSS SECTION
(Near Panel A)



EXCAVATION & DRAIN DETAILS



DETAIL B

FILE NAME = Z64E08-002-Detail.dgn
MODEL = Default
PLOT DRIVER = V8...IDOT...PDF...11x17.pltcf9



USER NAME = S.Dulakis	DESIGNED -	REVISED
PLOT SCALE = 16x0.0000 '1' / in.	CHECKED -	REVISED
PLOT DATE = 7/25/2013	DRAWN -	REVISED
	CHECKED -	REVISED

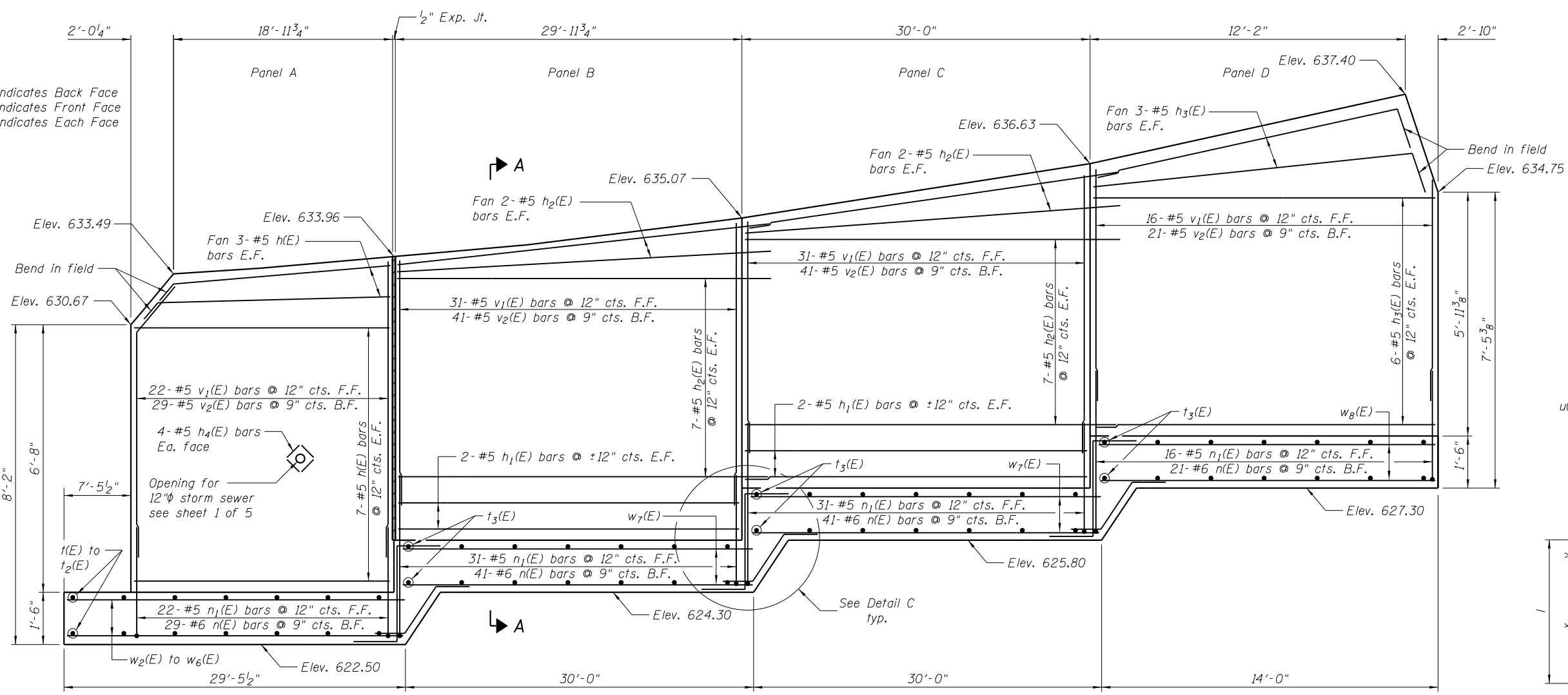
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS AND TOTAL BILL OF MATERIAL
RETAINING WALLS #2 & #3

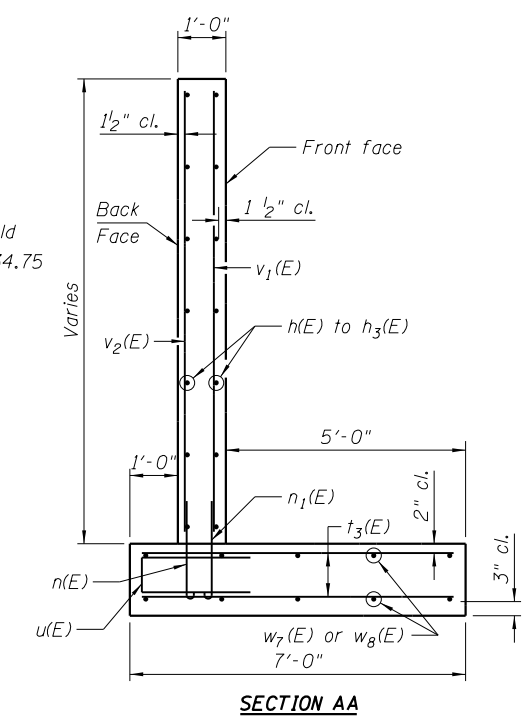
SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	119
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				

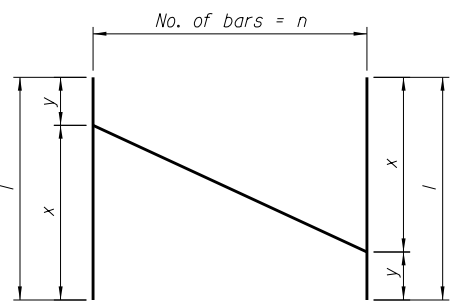
NOTE:
 B.F. indicates Back Face
 F.F. indicates Front Face
 E.F. indicates Each Face



ELEVATION



SECTION AA

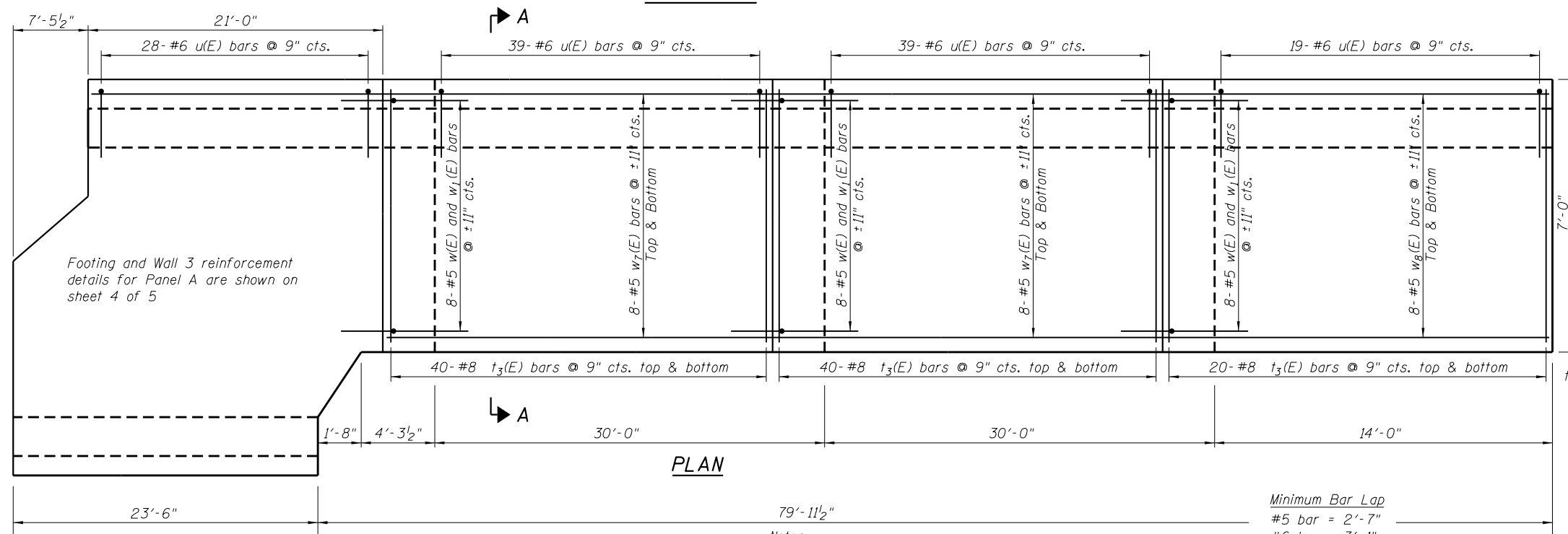


BAR CUTTING DIAGRAM

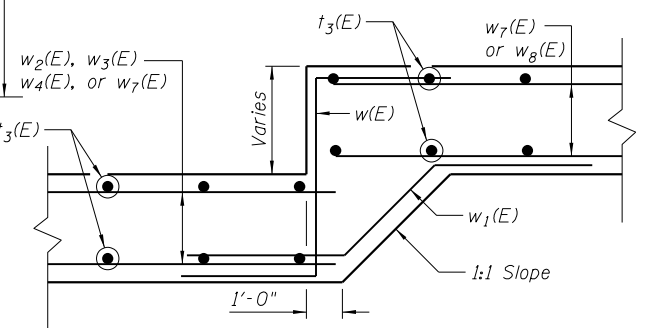
BAR CUTTING DIMENSIONS

BAR	n	x	y	l
t ₁ (E)	10	7'-0"	5'-3"	12'-3"
t ₂ (E)	3	8'-3"	7'-0"	15'-3"
w ₃ (E)	2	29'-0"	22'-0"	51'-0"
w ₅ (E)	2	24'-9"	23'-0"	47'-9"

* Order bars full length. Cut to fit as shown and use the remainder on the opposite face.



PLAN



DETAIL C

Minimum Bar Lap
 #5 bar = 2'-7"
 #6 bar = 3'-1"

Notes:
 1. For Bar Details & Bill of Material see sheet 4 of 5

FILE NAME = Z64E08-003-Rev Mat12.dgn
 MODEL = Default
 PLOT DRIVER = VBA_IIDOT_PDF_11x17.pltcf9



USER NAME = S.Dulakis	DESIGNED -	REVISD
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISD
PLOT DATE = 7/25/2013	DRAWN -	REVISD
	CHECKED -	REVISD

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

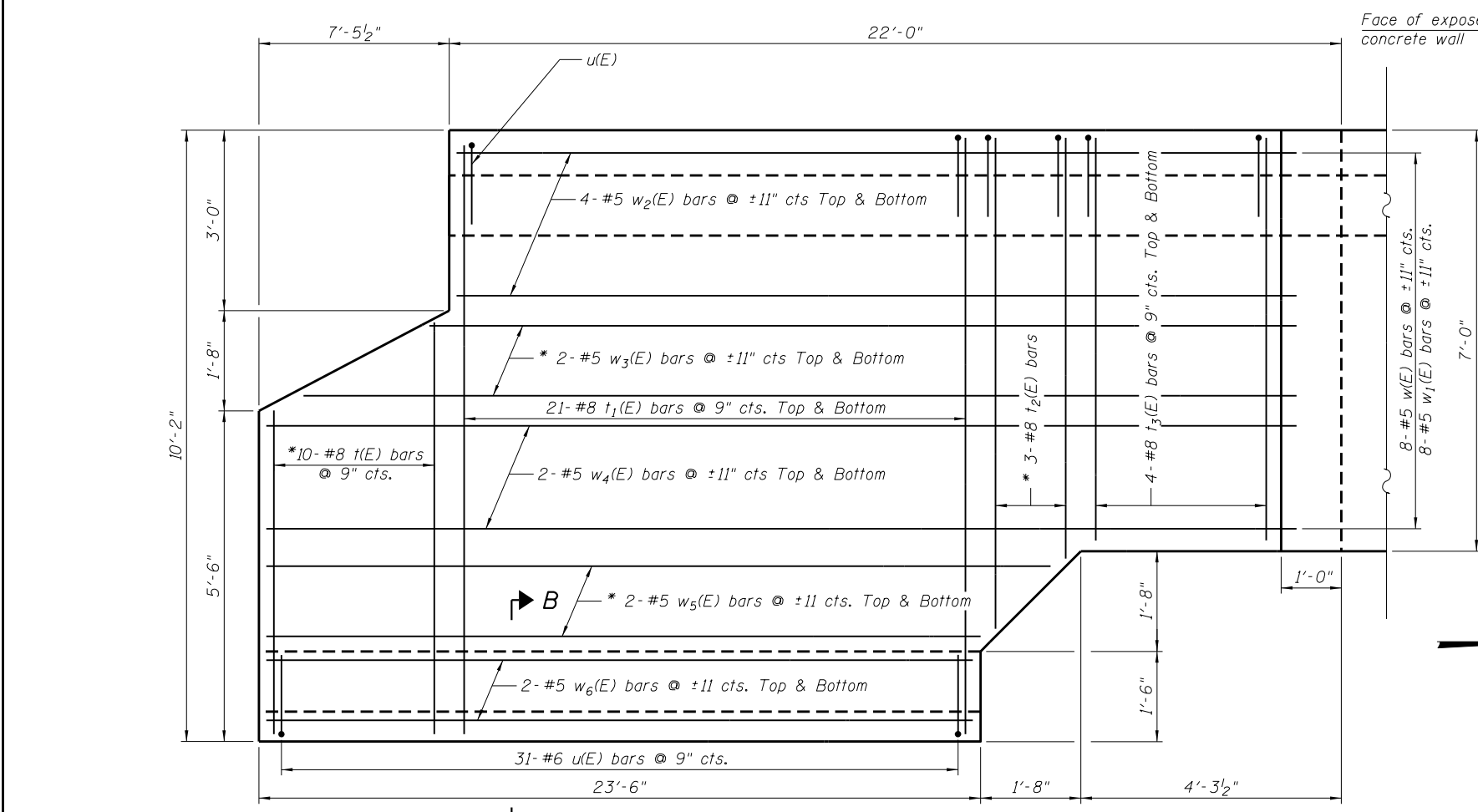
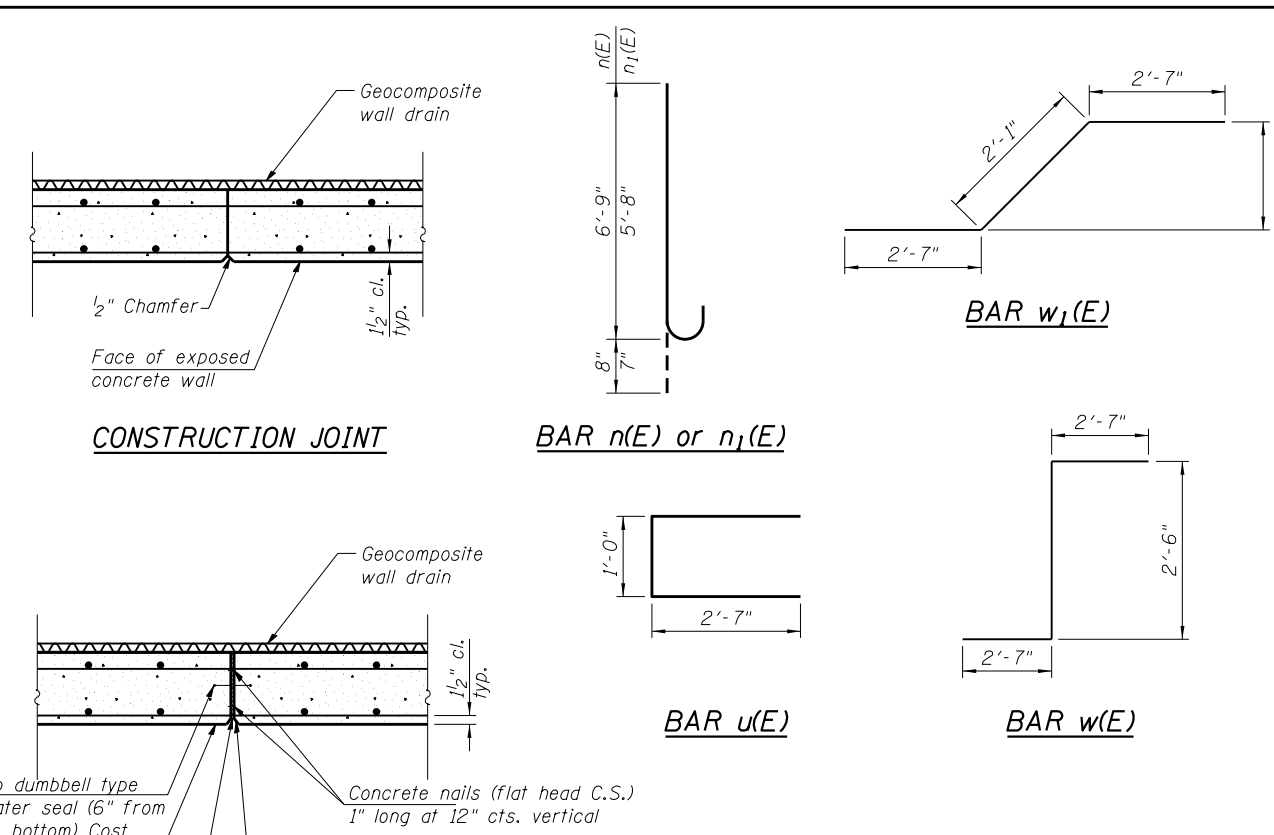
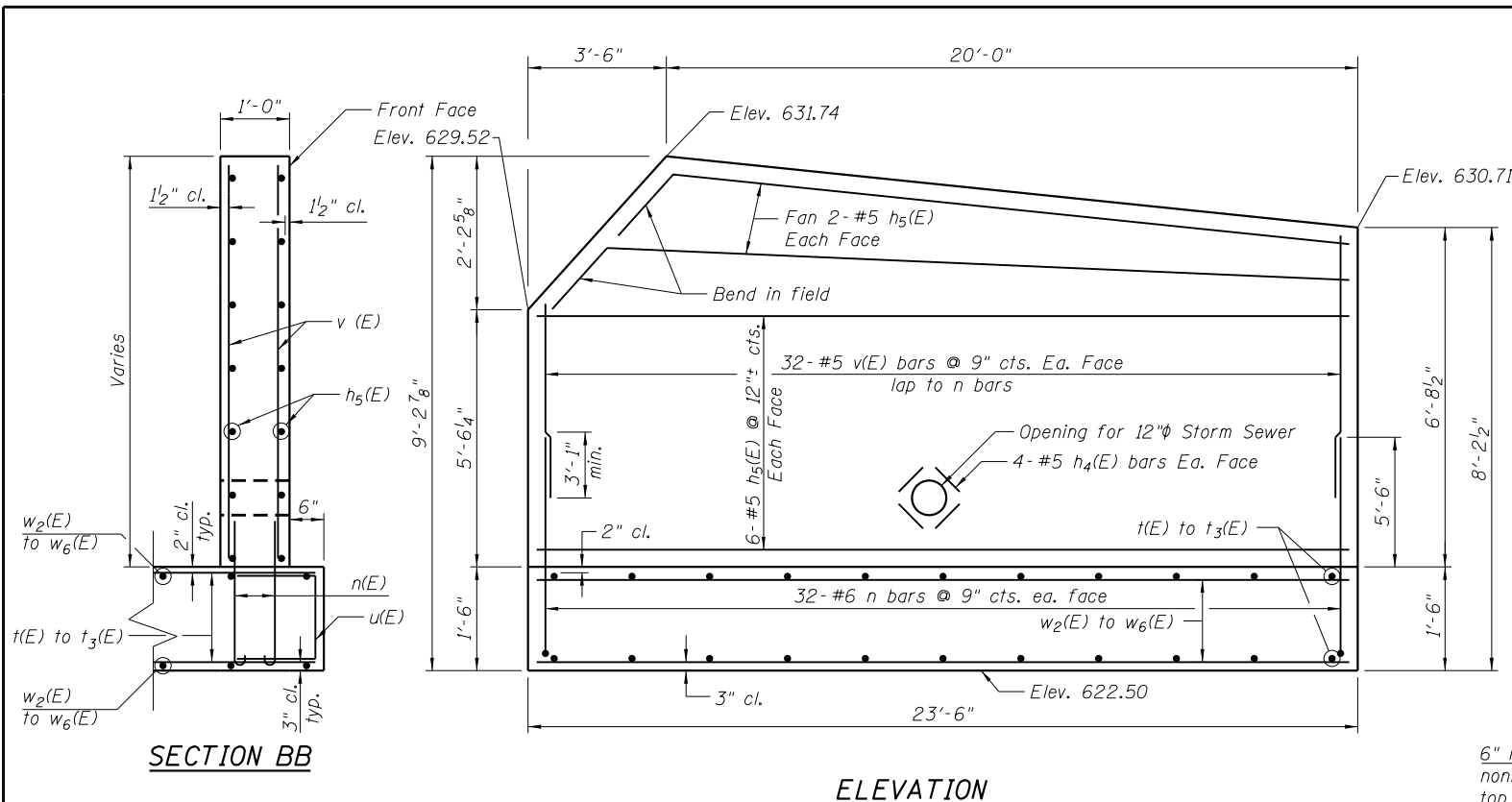
RETAINING WALL #2 - DETAILS
 RETAINING WALLS #2 & #3

SHEET NO. 3 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	120

CONTRACT NO. 64E08

ILLINOIS FED. AID PROJECT



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	20	#5	20'-8"	—
h1(E)	8	#5	29'-8"	—
h2(E)	36	#5	32'-6"	—
h3(E)	18	#5	14'-9"	—
h4(E)	16	#5	1'-6"	—
h5(E)	16	#5	23'-2"	—
n(E)	196	#6	7'-5"	U
n1(E)	100	#5	6'-3"	U
t(E)	10	#8	12'-3"	—
t1(E)	42	#8	9'-10"	—
t2(E)	3	#8	15'-3"	—
t3(E)	228	#8	6'-8"	—
u(E)	156	#6	6'-2"	C
v(E)	64	#5	5'-3"	—
v1(E)	100	#5	7'-9"	—
v2(E)	132	#5	7'-6"	—
w(E)	24	#5	7'-8"	L
w1(E)	24	#5	7'-3"	L
w2(E)	8	#5	20'-9"	—
w3(E)	2	#5	51'-0"	—
w4(E)	4	#5	28'-3"	—
w5(E)	2	#5	47'-9"	—
w6(E)	4	#5	23'-0"	—
w7(E)	32	#5	29'-8"	—
w8(E)	16	#5	14'-8"	—
Concrete Structures		Cu. Yd.	85.8	
Reinforcement Bar, Epoxy Coated		Lb.	16,880	

* See Bar Cutting Details on sheet 3 of 5

FILE NAME = Z64E08-004-Rev Wal13.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT...PDF...11x17.plt



USER NAME = S.Dulakis	DESIGNED -	REVISD -
PLOT SCALE = 16x0.0000' / in.	CHECKED -	REVISD -
PLOT DATE = 7/25/2013	DRAWN -	REVISD -
	CHECKED -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL #3 - DETAILS
 RETAINING WALLS #2 & #3

SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	121
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 3/16/10

ROUTE FA 308 DESCRIPTION P92-057-08 Bridge over Apple River, IL 84, 100' S. of S. Hanover Hill Road LOGGED BY W. Garza

SECTION 103 BR-4 LOCATION Hanover Twp. - 9SW, SEC. , TWP. 26N, RNG. 1W

COUNTY JoDaviess DRILLING METHOD _____ HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
Station	(ft)	(/6")	(tsf)	(%)	ft	ft	First Encounter ft Upon Completion ft After Hrs. ft
					80.00	76.50	
BORING NO. <u>B-1</u>							
Station <u>321+39</u>							
Offset <u>55.00ft Rt CL</u>							
Ground Surface Elev. <u>96.30</u> ft							
brown SANDY LOAM				18.0			
	94.30	2					
STIFF brown SANDY LOAM		3	2.0	16.0			
	92.80	3	P				
STIFF brown SANDY CLAY LOAM		2					
	-5	4	1.8	24.0			
		4	P				
	89.30	0					
MEDIUM brown SILTY CLAY LOAM		2	0.6	27.0			
	86.80	4	B				
	-10	2					
STIFF brown SILTY CLAY LOAM		3	1.6	23.0			
		6	B				
	83.80	100/4					
Borehole continued with rock coring.							
	-15						
	-20						

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)



ROCK CORE LOG

Date 3/16/10

ROUTE FA 308 DESCRIPTION P92-057-08 Bridge over Apple River, IL 84, 100' S. of S. Hanover Hill Road LOGGED BY W. Garza

SECTION 103 BR-4 LOCATION Hanover Twp. - 9SW, SEC. , TWP. 26N, RNG. 1W

COUNTY JoDaviess CORING METHOD _____

STRUCT. NO.	DEPTH	CORING BARREL TYPE & SIZE	RECOVERY	R.Q.D.	CORE TIME	STRENGTH
Station	(ft)	Core Diameter in Top of Rock Elev. ft Begin Core Elev. ft	(%)	(%)	(min/ft)	(tsf)
BORING NO. <u>B-1</u>						
Station <u>321+39</u>						
Offset <u>55.00ft Rt CL</u>						
Ground Surface Elev. <u>96.30</u> ft						
Dolomite: tan-gray, dense & occasionally pitted, top half is laminated and fissile.			1	100	28	2
t.s.f.: 80.9 to 80.4						
	-15					
	78.30					
Dolomite: as above			2	100	30	
t.s.f.: 74.6 to 74.1						
	-20					
	73.30					
Dolomite: as above, though slightly more pitted & medium to thick bedded.			3	100	82	1.8
t.s.f.: 71.7 to 71.2						
	-25					
	68.30					
End of Boring						
	-30					

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

FILE NAME = Z64E08-005-Boring-Log.dgn
 MODEL = Default
 PLOT DRIVER = V8...IDOT...PDF...1x17...1x19



USER NAME = S.Dulakis	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE = 16x0.0000" 1' / in.	DRAWN -	REVISED
PLOT DATE = 7/25/2013	CHECKED -	REVISED

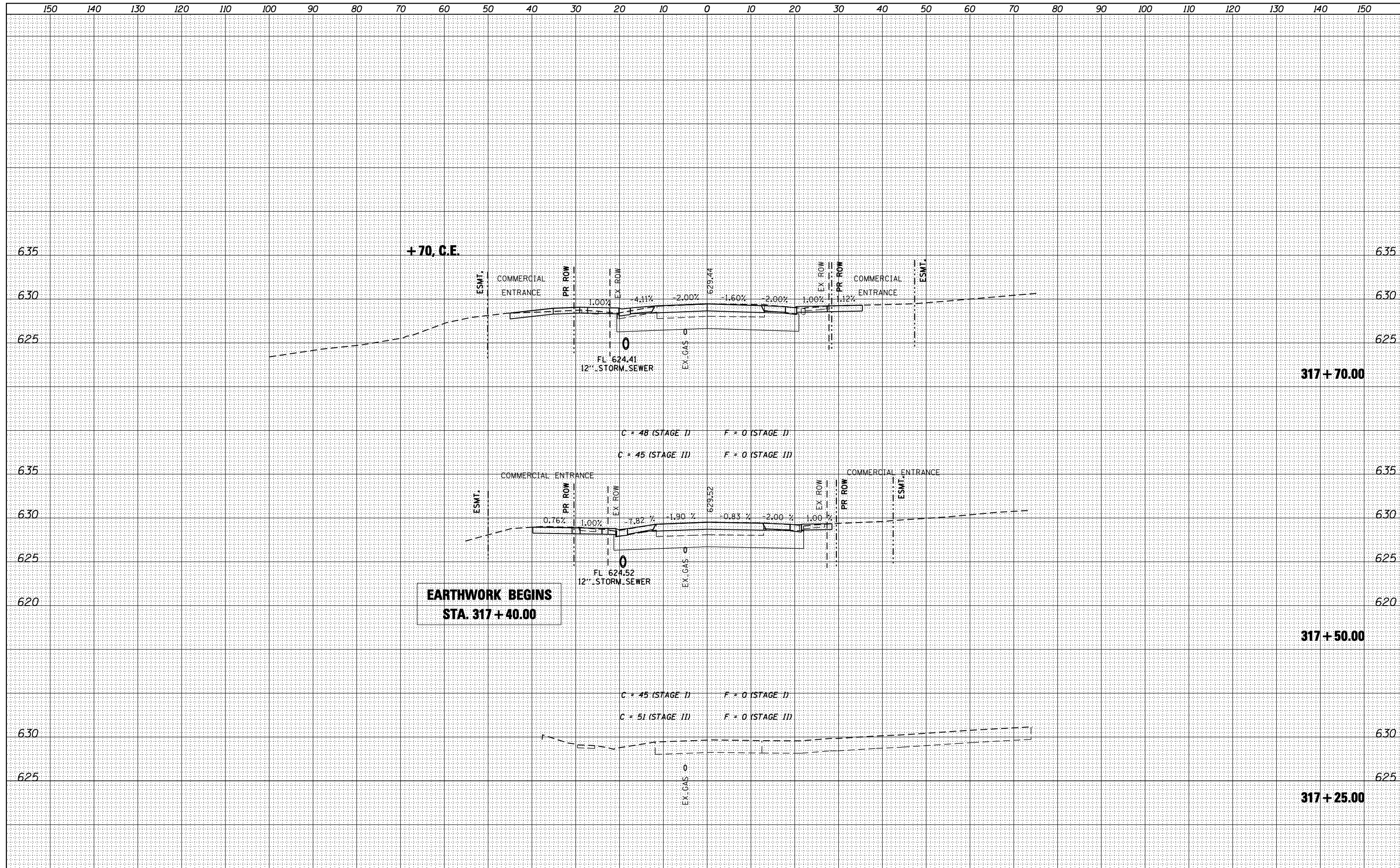
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
 RETAINING WALLS #2 & #3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	122
CONTRACT NO. 64E08			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



design firm
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USER NAME = g_jameson	DESIGNED -	REVISED -
FILE NAME = 264E08-SHT-XSEC-IL84.dwg	CHECKED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 8/5/2013	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - IL 84
IL 84 OVER APPLE RIVER**

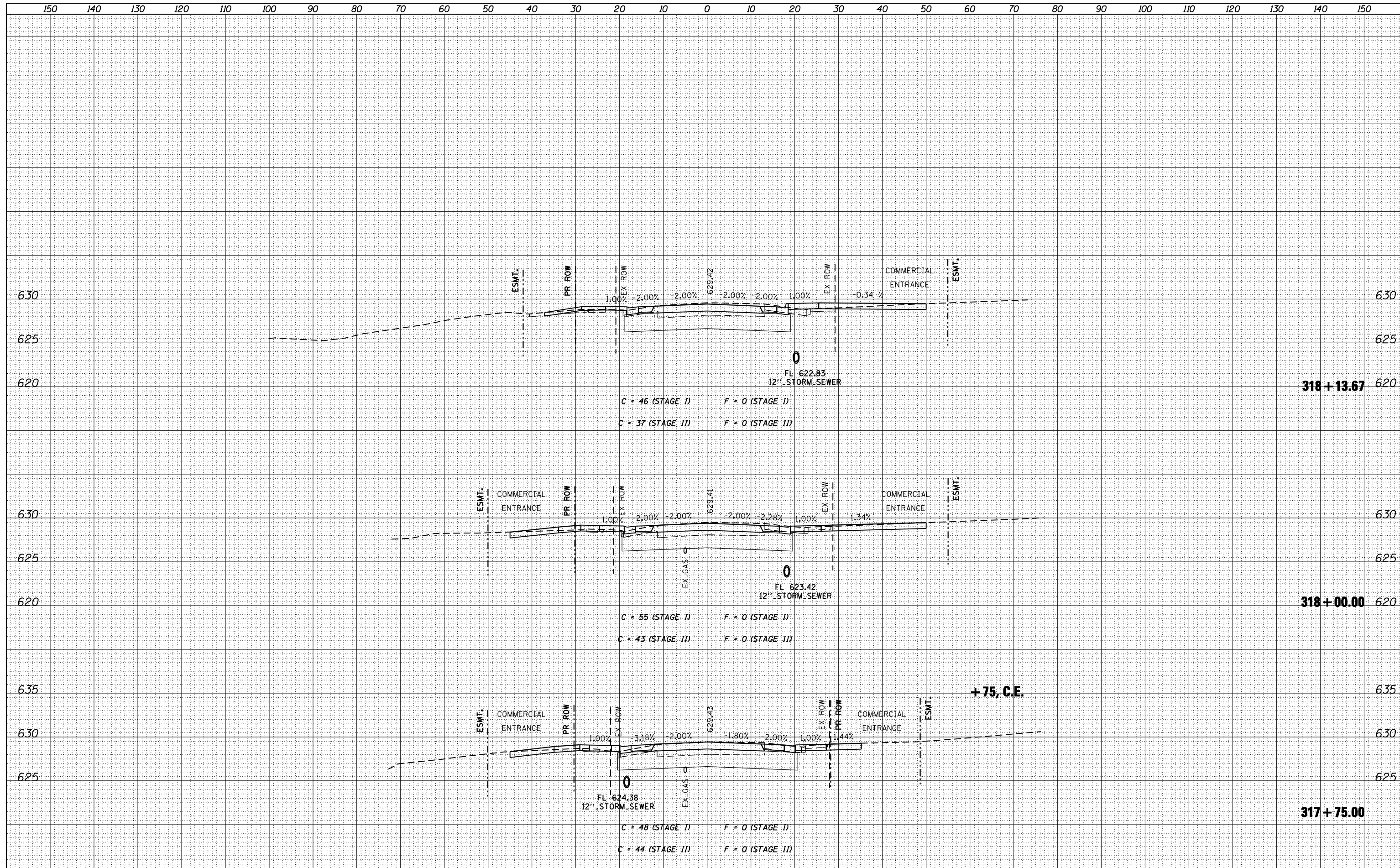
SCALE: 1" = 10' SHEET NO. 1 OF 5 SHEETS STA. 317+25.00 TO STA. 317+70.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	123
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



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USER NAME = g_jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-IL84.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

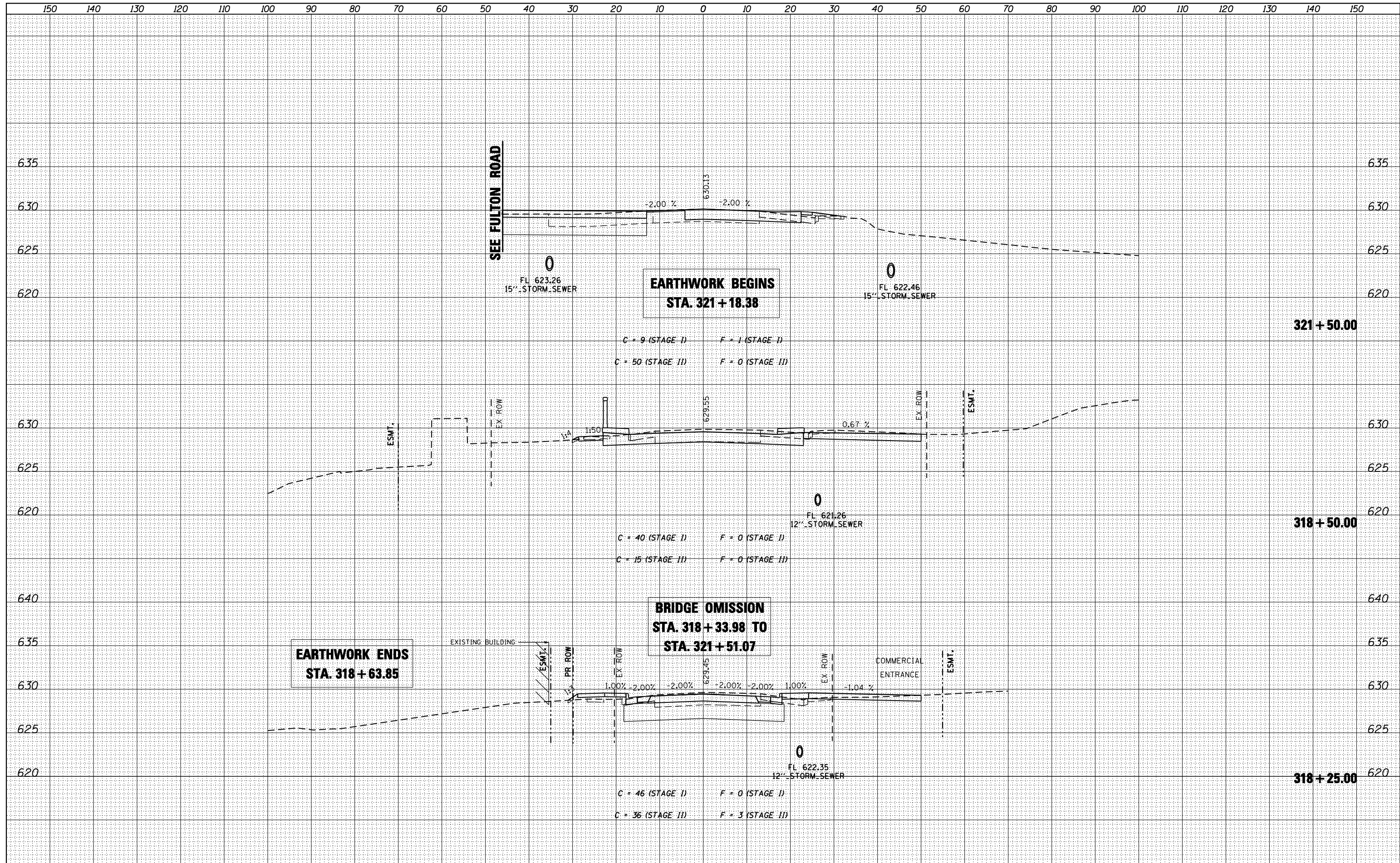
**CROSS SECTION - IL 84
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 2 OF 5 SHEETS STA. 317+75.00 TO STA. 318+13.67

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	124
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = g_jameson	DESIGNED -	REVISED -
FILE NAME = 264E08-SHT-XSEC-IL84.dwg	CHECKED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 8/5/2013	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - IL 84
IL 84 OVER APPLE RIVER**

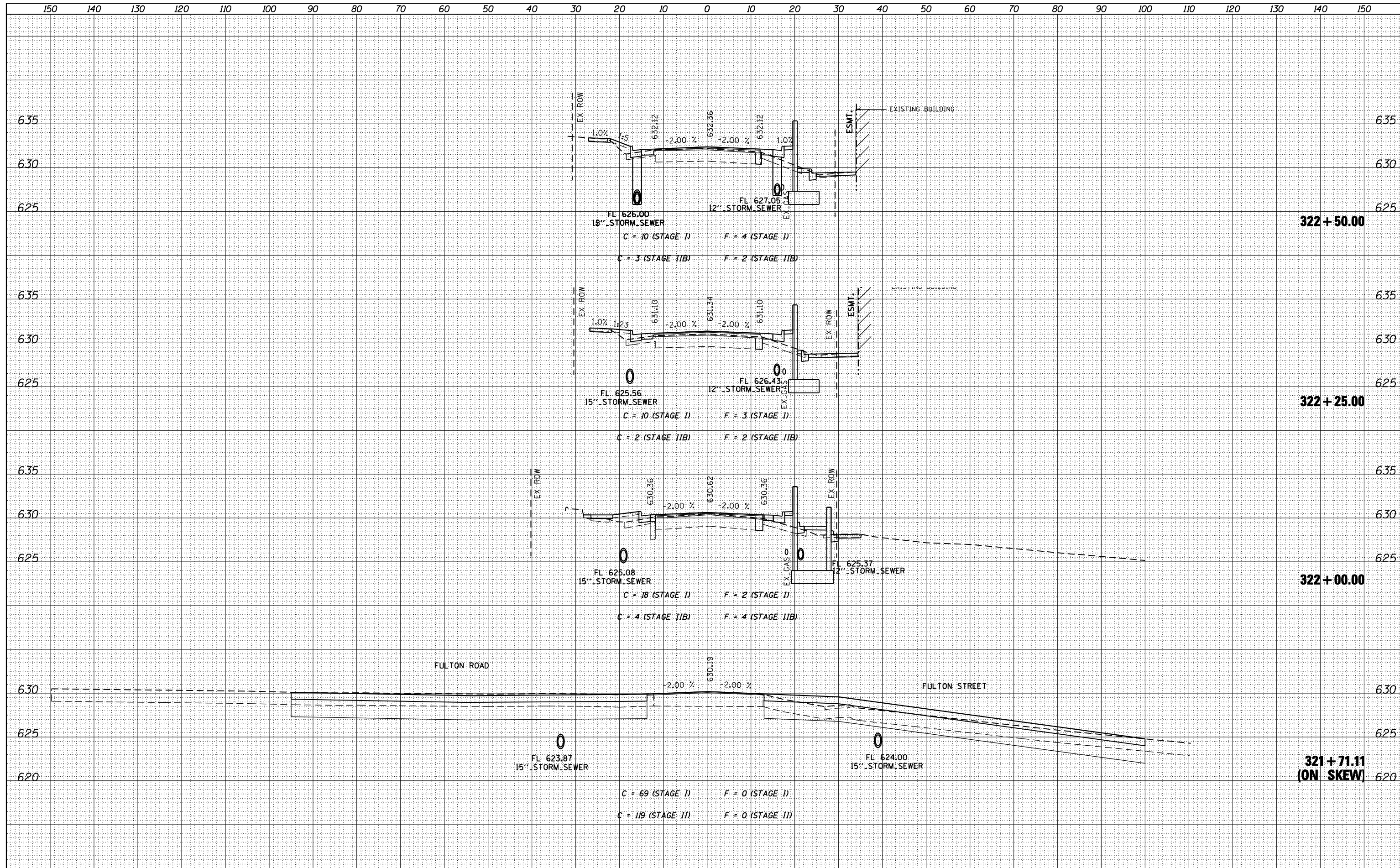
SCALE: 1" = 10' SHEET NO. 3 OF 5 SHEETS STA. 318+25.00 TO STA. 321+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	125
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

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

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



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USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-IL84.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - IL 84
IL 84 OVER APPLE RIVER**

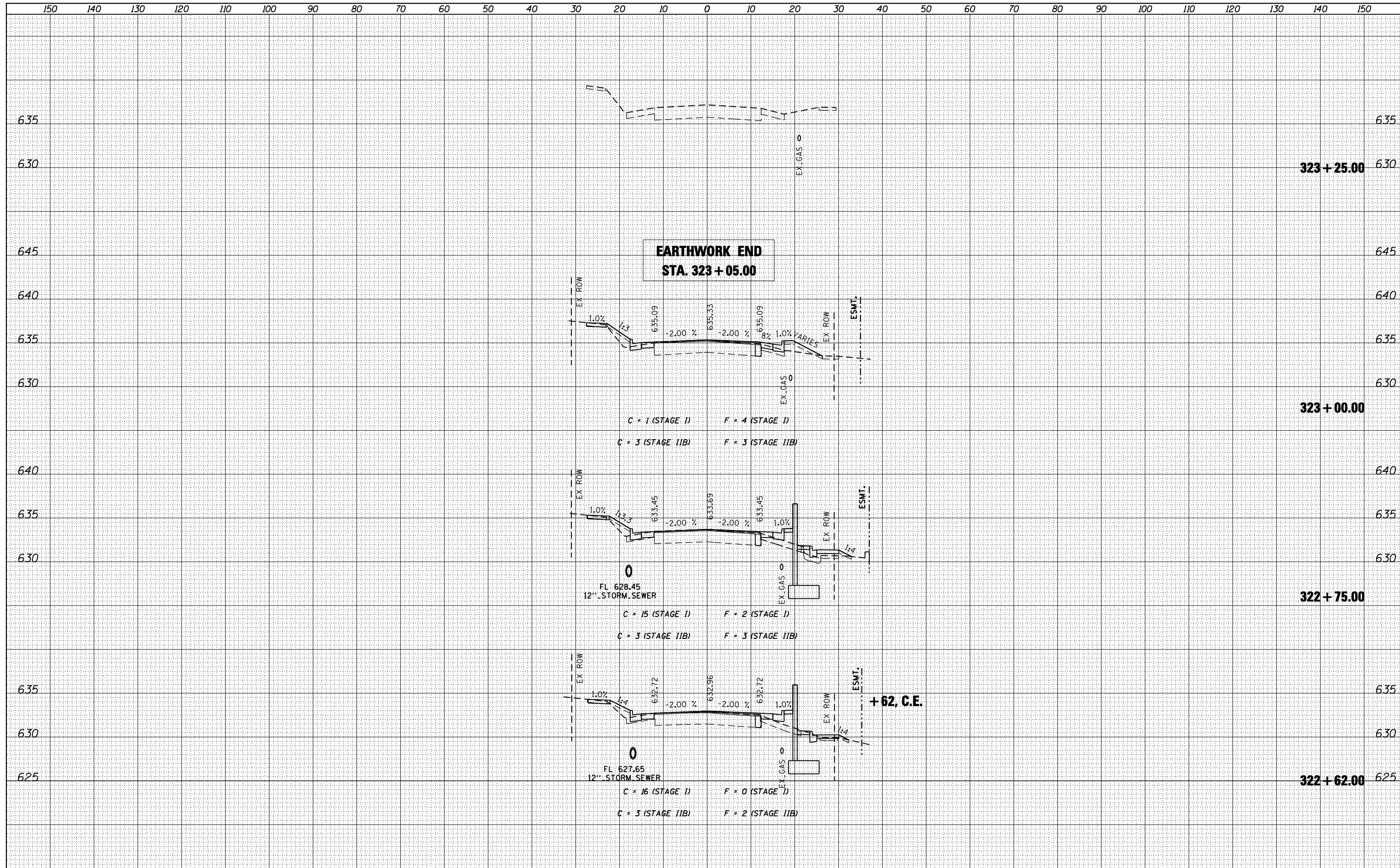
SCALE: 1" = 10' SHEET NO. 4 OF 5 SHEETS STA. 321+71.11 TO STA. 322+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	126
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

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

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



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USER NAME = g_jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-IL84.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

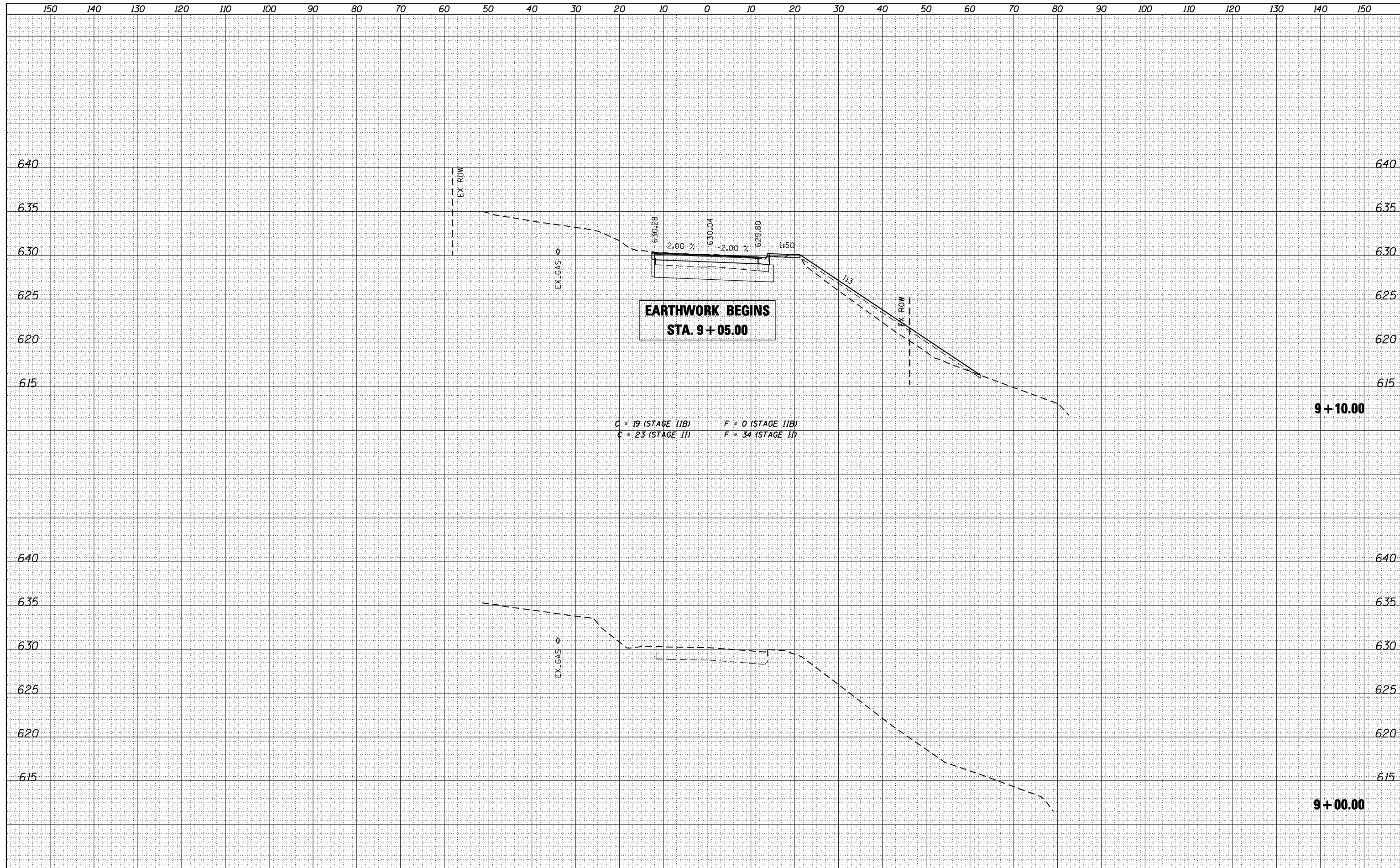
**CROSS SECTION - IL 84
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 5 OF 5 SHEETS STA. 322+62.00 TO STA. 323+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	127
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = g.jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-FULTON	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

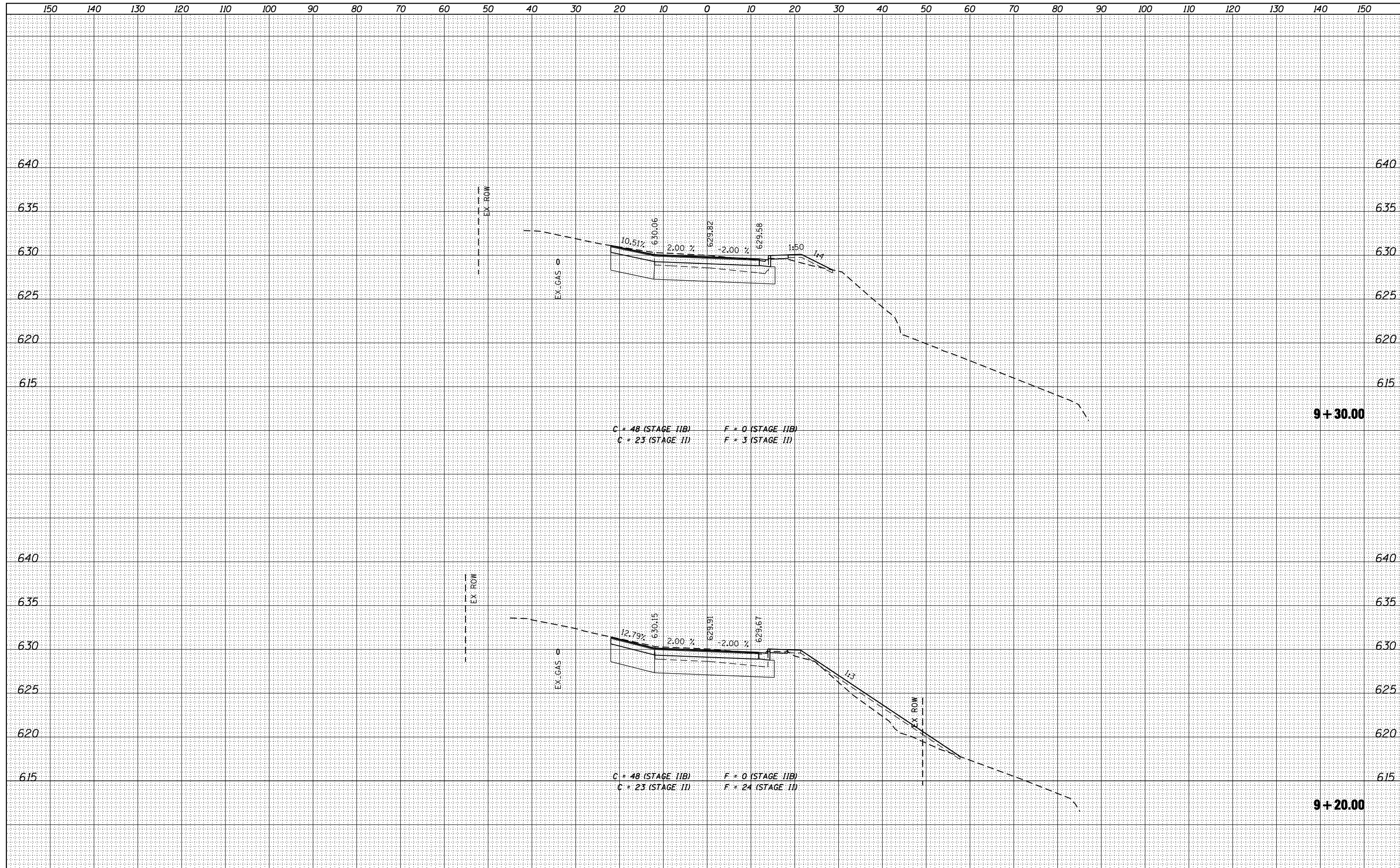
**CROSS SECTION FULTON ROAD / FULTON STREET
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 1 OF 6 SHEETS STA. 9+00.00 TO STA. 9+10.00

F.A.U. RTE. 308	SECTION 103BR-4	COUNTY JODAVIESS	TOTAL SHEETS 159	SHEET NO. 128
			CONTRACT NO. 64E08	
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = g_jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-FULTON	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

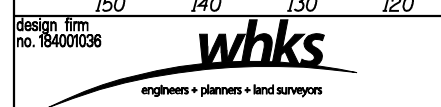
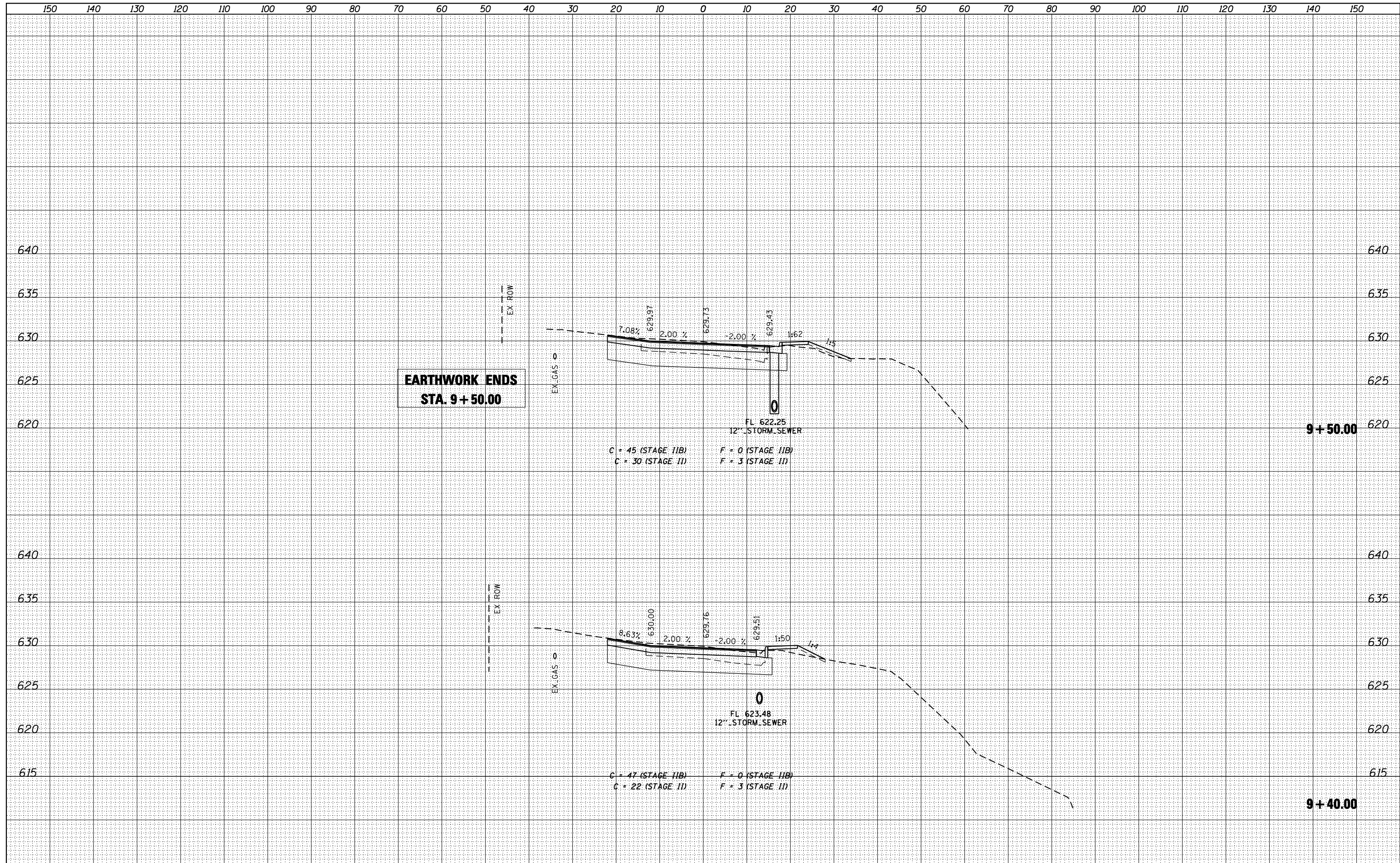
**CROSS SECTION FULTON ROAD / FULTON STREET
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 2 OF 6 SHEETS STA. 9+20.00 TO STA. 9+30.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	129
				CONTRACT NO. 64E08
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-FULTON	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION FULTON ROAD / FULTON STREET
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 3 OF 6 SHEETS STA. 9+40.00 TO STA. 9+50.00

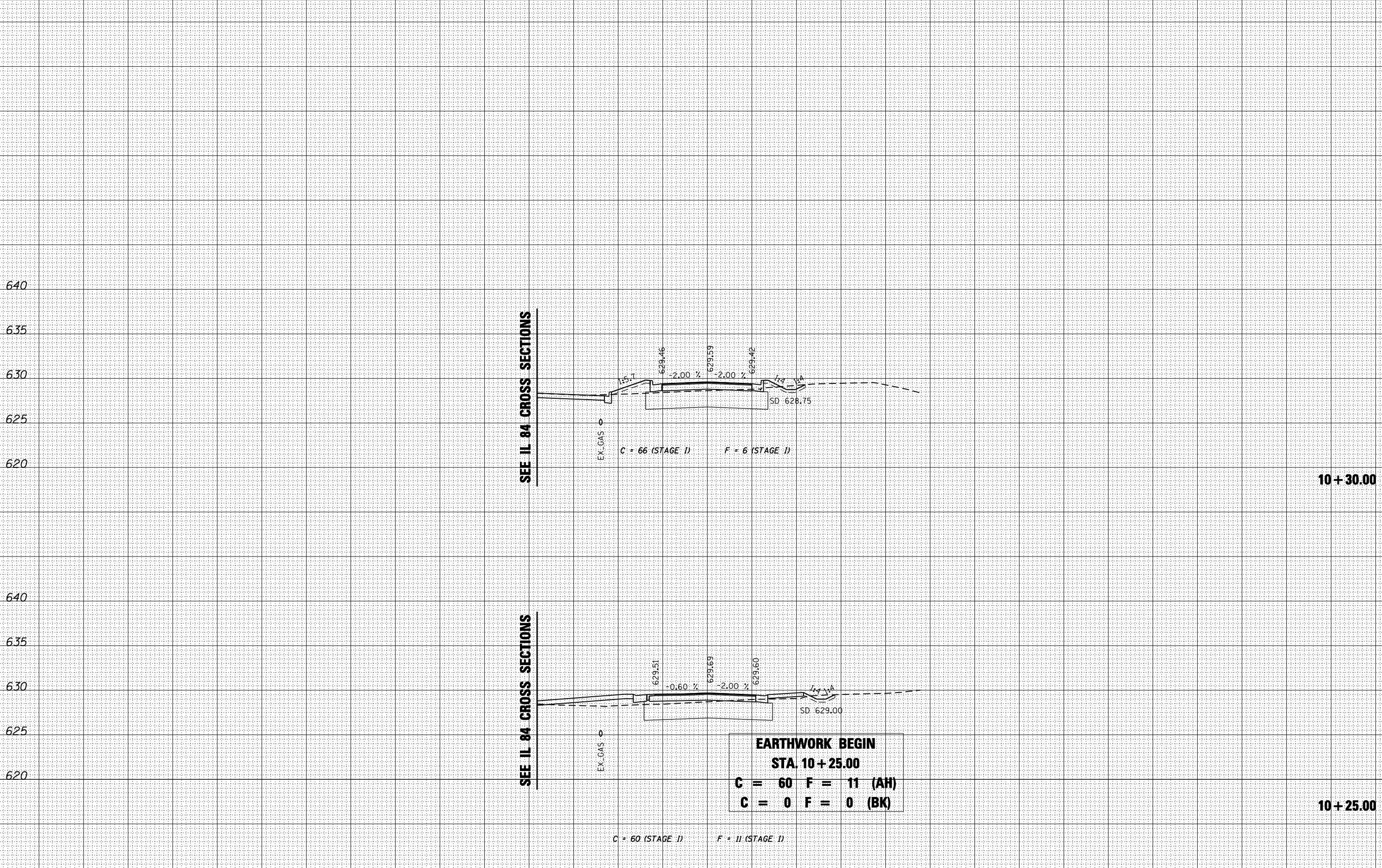
F.A.U. RTE. 308	SECTION 103BR-4	COUNTY JODAVIESS	TOTAL SHEETS 159	SHEET NO. 130
				CONTRACT NO. 64E08

ILLINOIS FED. AID PROJECT

BY	DATE

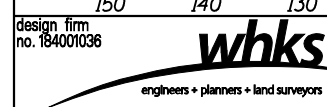
BY	DATE

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



10 + 30.00

10 + 25.00



USER NAME = g_jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-FULTON	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

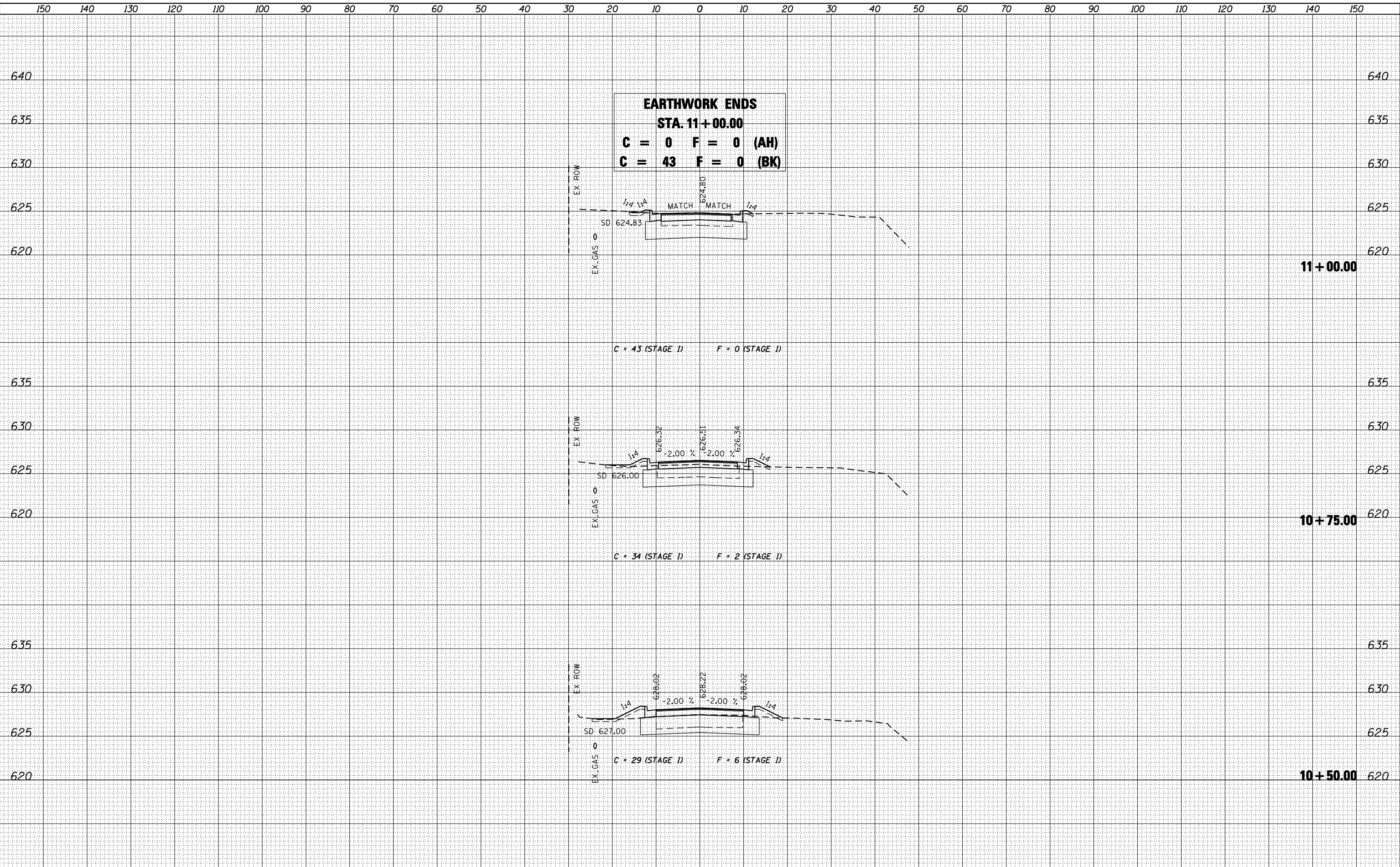
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION FULTON ROAD / FULTON STREET	
IL 84 OVER APPLE RIVER	
SCALE: 1" = 10'	SHEET NO. 4 OF 6 SHEETS
STA. 10+25.00	TO STA. 10+30.00

F.A.U. RTE. 308	SECTION 103BR-4	COUNTY JODAVIESS	TOTAL SHEETS 159	SHEET NO. 131
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

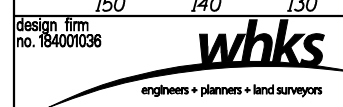


EARTHWORK ENDS
STA. 11+00.00
C = 0 F = 0 (AH)
C = 43 F = 0 (BK)

C = 43 (STAGE 1) F = 0 (STAGE 1)

C = 34 (STAGE 1) F = 2 (STAGE 1)

C = 29 (STAGE 1) F = 6 (STAGE 1)



USER NAME = g.jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-FULTON	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION FULTON ROAD / FULTON STREET
IL 84 OVER APPLE RIVER

SCALE: 1" = 10' SHEET NO. 5 OF 6 SHEETS STA. 10+50.00 TO STA. 11+00.00

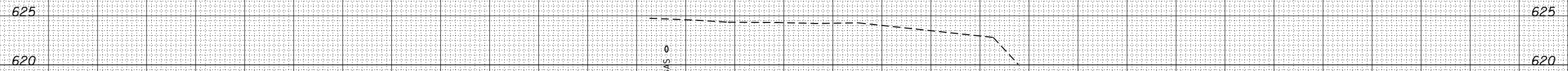
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	132
				CONTRACT NO. 64E08

ILLINOIS FED. AID PROJECT

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

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

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



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USER NAME = g.jameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-FULTON	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION FULTON ROAD / FULTON STREET
IL 84 OVER APPLE RIVER**

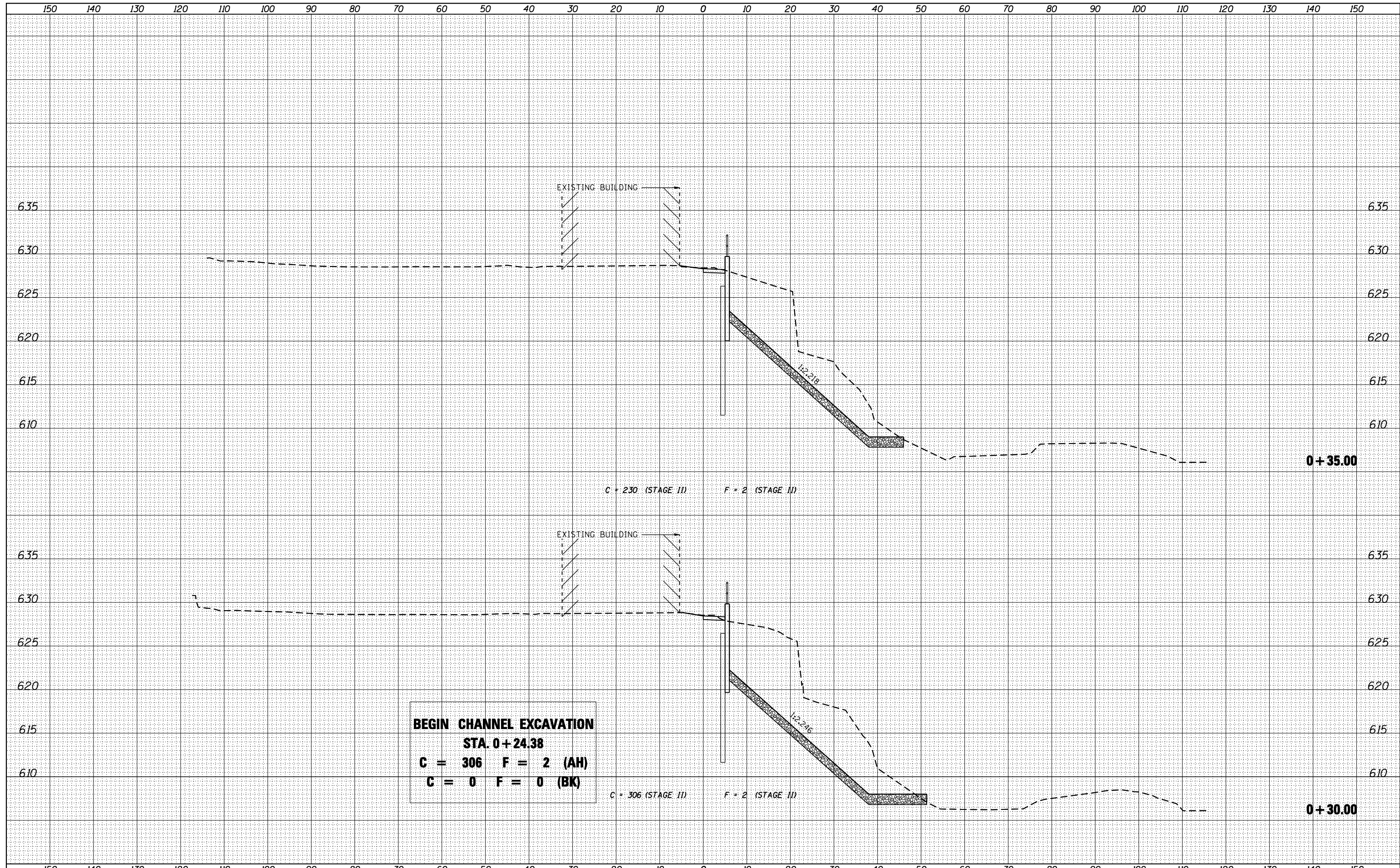
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	133
CONTRACT NO. 64E08				

ILLINOIS FED. AID PROJECT

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

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



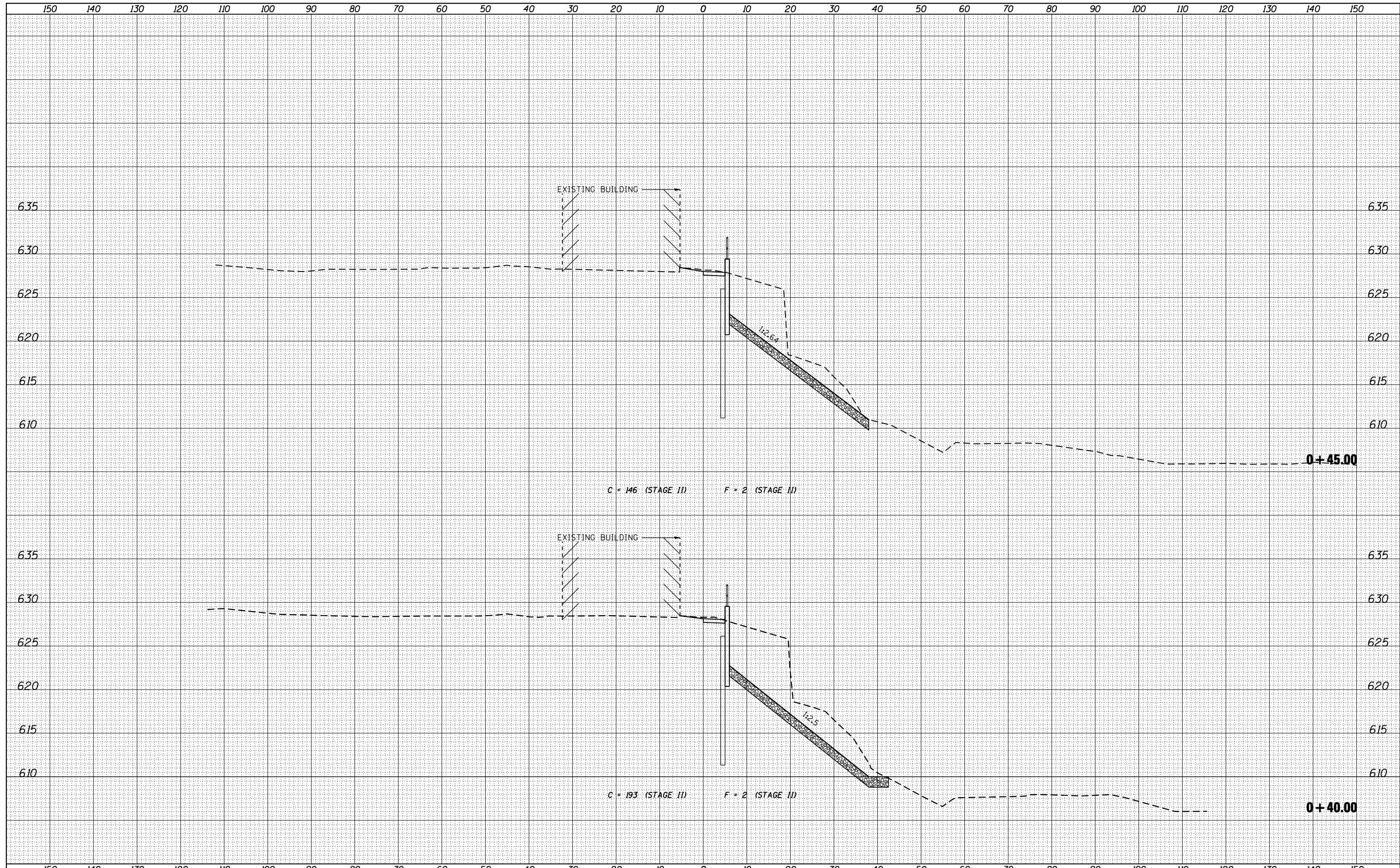
BEGIN CHANNEL EXCAVATION
STA. 0+24.38
C = 306 F = 2 (AH)
C = 0 F = 0 (BK)

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FILE NAME = 264E08-SHT-XSEC-WALL.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	134
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				

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

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



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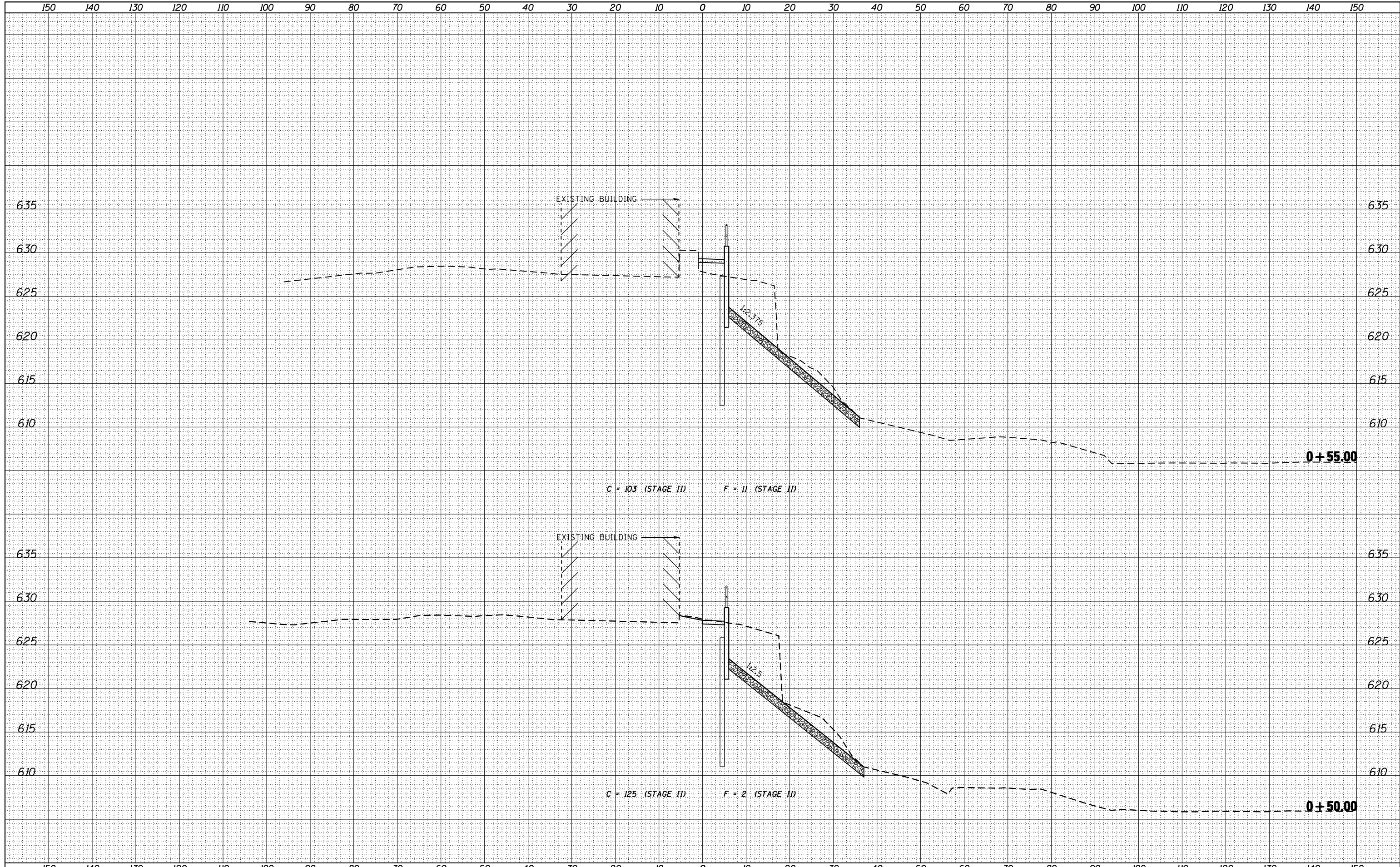
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PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHWEST RETAINING WALL
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 2 OF 5 SHEETS STA. +40.00 TO STA. +45.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	135
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				



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

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

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USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = 264E08-SHT-XSEC-WALL.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

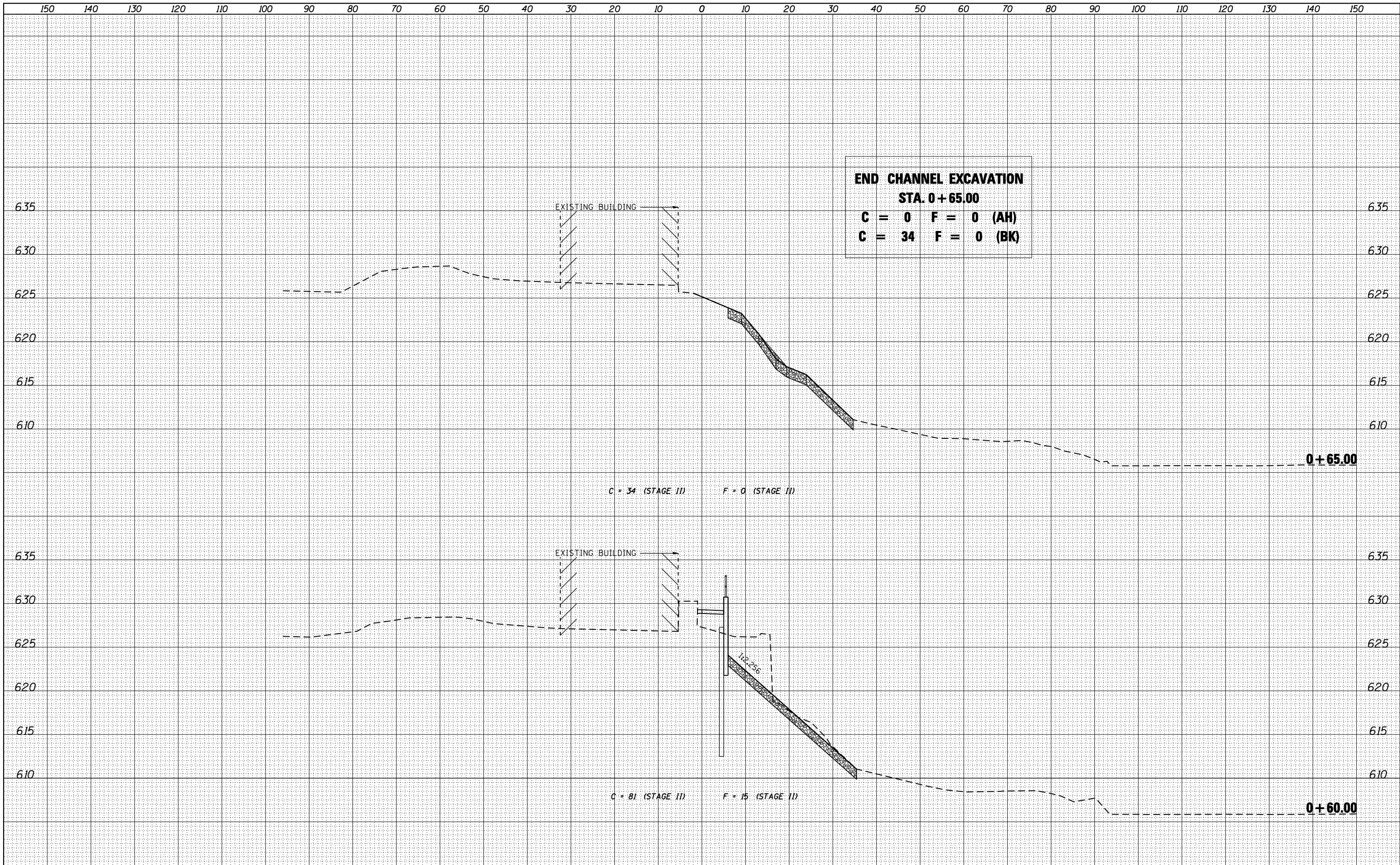
**CROSS SECTION - SOUTHWEST RETAINING WALL
IL 84 OVER APPLE RIVER**

SCALE: 1" = 10' SHEET NO. 3 OF 5 SHEETS STA. +50.00 TO STA. +55.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	136
CONTRACT NO. 64E08				ILLINOIS FED. AID PROJECT

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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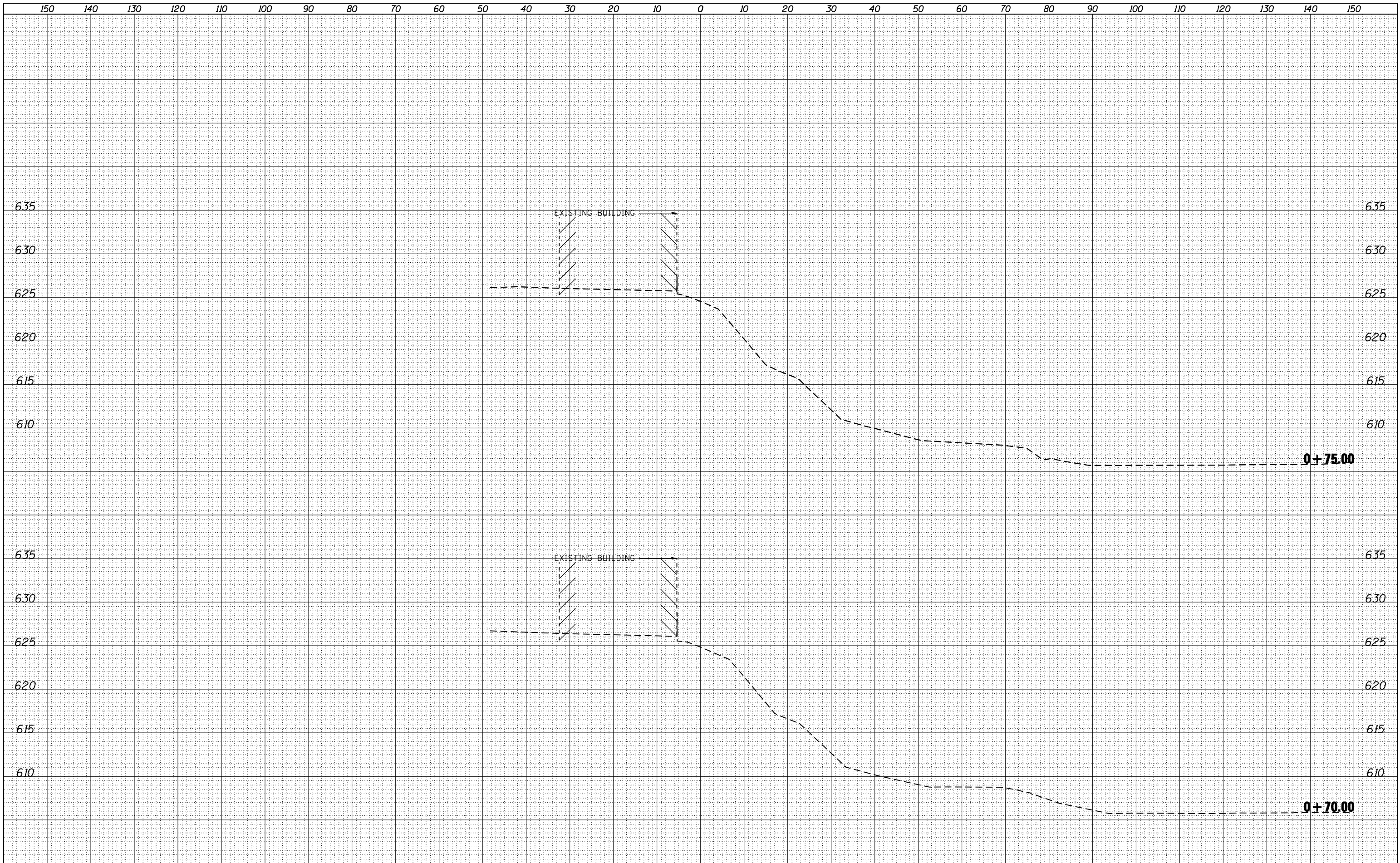
END CHANNEL EXCAVATION
STA. 0+65.00
C = 0 F = 0 (AH)
C = 34 F = 0 (BK)

C = 34 (STAGE II) F = 0 (STAGE II)

C = 81 (STAGE II) F = 15 (STAGE II)

USER NAME = gjameson	DESIGNED -	REVISED
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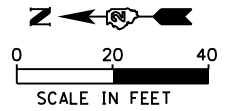
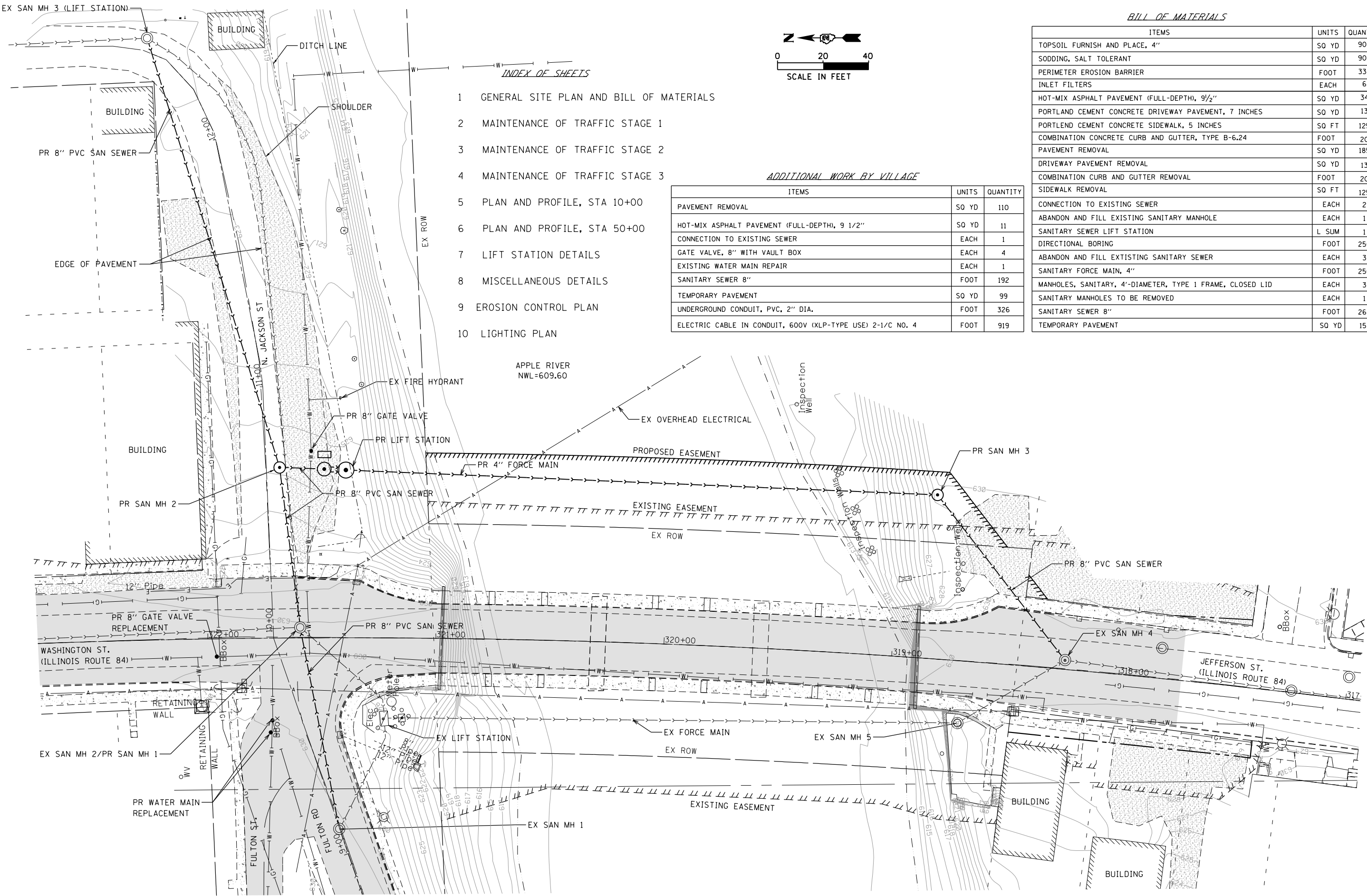
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JODAVIESS	159	137
				CONTRACT NO. 64E08



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

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

design firm no. 184001036 whks engineers • planners • land surveyors	<table border="1"> <tr><td>USER NAME = gjameson</td><td>DESIGNED -</td><td>REVISED</td></tr> <tr><td>FILE NAME = 264E08-SHT-XSEC-WALL.dwg</td><td>CHECKED -</td><td>REVISED</td></tr> <tr><td>PLOT SCALE = 20.0000 ' / IN.</td><td>DRAWN -</td><td>REVISED</td></tr> <tr><td>PLOT DATE = 8/5/2013</td><td>CHECKED -</td><td>REVISED</td></tr> </table>	USER NAME = gjameson	DESIGNED -	REVISED	FILE NAME = 264E08-SHT-XSEC-WALL.dwg	CHECKED -	REVISED	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED	PLOT DATE = 8/5/2013	CHECKED -	REVISED	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>CROSS SECTION - SOUTHWEST RETAINING WALL IL 84 OVER APPLE RIVER</p>	<table border="1"> <tr> <th>F.A.U. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>308</td> <td>103BR-4</td> <td>JODAVIESS</td> <td>159</td> <td>138</td> </tr> </table>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	308	103BR-4	JODAVIESS	159	138
USER NAME = gjameson	DESIGNED -	REVISED																								
FILE NAME = 264E08-SHT-XSEC-WALL.dwg	CHECKED -	REVISED																								
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED																								
PLOT DATE = 8/5/2013	CHECKED -	REVISED																								
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																						
308	103BR-4	JODAVIESS	159	138																						
		<p>SCALE: 1" = 10' SHEET NO. 5 OF 5 SHEETS STA. +70.00 TO STA. +75.00</p>		<p>CONTRACT NO. 64E08 ILLINOIS FED. AID PROJECT</p>																						



- INDEX OF SHEETS
- 1 GENERAL SITE PLAN AND BILL OF MATERIALS
 - 2 MAINTENANCE OF TRAFFIC STAGE 1
 - 3 MAINTENANCE OF TRAFFIC STAGE 2
 - 4 MAINTENANCE OF TRAFFIC STAGE 3
 - 5 PLAN AND PROFILE, STA 10+00
 - 6 PLAN AND PROFILE, STA 50+00
 - 7 LIFT STATION DETAILS
 - 8 MISCELLANEOUS DETAILS
 - 9 EROSION CONTROL PLAN
 - 10 LIGHTING PLAN

ADDITIONAL WORK BY VILLAGE

ITEMS	UNITS	QUANTITY
PAVEMENT REMOVAL	SO YD	110
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/2"	SO YD	11
CONNECTION TO EXISTING SEWER	EACH	1
GATE VALVE, 8" WITH VAULT BOX	EACH	4
EXISTING WATER MAIN REPAIR	EACH	1
SANITARY SEWER 8"	FOOT	192
TEMPORARY PAVEMENT	SO YD	99
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	326
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4	FOOT	919

BILL OF MATERIALS

ITEMS	UNITS	QUANTITY
TOPSOIL FURNISH AND PLACE, 4"	SO YD	905
SODDING, SALT TOLERANT	SO YD	905
PERIMETER EROSION BARRIER	FOOT	338
INLET FILTERS	EACH	6
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/2"	SO YD	34
PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCHES	SO YD	13
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCHES	SO FT	125
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	20
PAVEMENT REMOVAL	SO YD	185
DRIVEWAY PAVEMENT REMOVAL	SO YD	13
COMBINATION CURB AND GUTTER REMOVAL	FOOT	20
SIDEWALK REMOVAL	SO FT	125
CONNECTION TO EXISTING SEWER	EACH	2
ABANDON AND FILL EXISTING SANITARY MANHOLE	EACH	1
SANITARY SEWER LIFT STATION	L SUM	1
DIRECTIONAL BORING	FOOT	256
ABANDON AND FILL EXISTING SANITARY SEWER	EACH	3
SANITARY FORCE MAIN, 4"	FOOT	256
MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3
SANITARY MANHOLES TO BE REMOVED	EACH	1
SANITARY SEWER 8"	FOOT	263
TEMPORARY PAVEMENT	SO YD	151

FILE NAME: G:\Projects\2012\12-159A\CADD_Drawing\12-159A - Site Plan.dgn
 USER NAME: tizerst



DESIGNED -	REVISD -
DRAWN - YG	REVISD -
CHECKED - TMH	REVISD -
DATE - 09/14/12	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 84
OVER APPLE RIVER

GENERAL SITE PLAN AND
BILL OF MATERIALS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	139
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 1 OF 10 SHEETS STA. TO STA.

LEGEND

- AREA OF CONSTRUCTION
- DRUMS WITH WARNING LIGHTS PER IDOT STANDARD 701901-02
- ⊗ BARRICADE, TYPE 3
- ⊕ BARRICADE, TYPE 1 OR 2
- FLAGGER WITH TRAFFIC CONTROL SIGN
- ⊞ SIGN ON PORTABLE SUPPORT

NOTE: ADDITIONAL "ROAD CONSTRUCTION AHEAD" SIGN TO BE PLACED ON FRANKLIN ST. BETWEEN MADISON AVE. AND JEFFERSON ST. FOR EASTBOUND TRAFFIC.

TRAFFIC CONTROL STAGING PLAN

LANE CLOSURE TO FOLLOW IDOT STANDARD 701501-06 FOR UNDIVIDED, 2 LANE URBAN LANE CLOSURES.

ROAD CLOSURES TO FOLLOW IDOT STANDARD 701501-06 FOR TRAFFIC CONTROL DEVICES.

FLAGGER TRAFFIC CONTROL, TEMPORARY SIGNAGE, DRUMS, AND BARRICADES TO FOLLOW IDOT STANDARDS 701901-02 FOR TRAFFIC CONTROL DEVICES.

ALL TRAFFIC CONTROL DEVICES WILL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD). AT ALL TIMES DURING CONSTRUCTION, ALL PROPERTIES WILL HAVE ACCESS AT THE END OF EVERY WORKDAY.

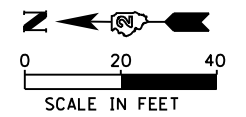
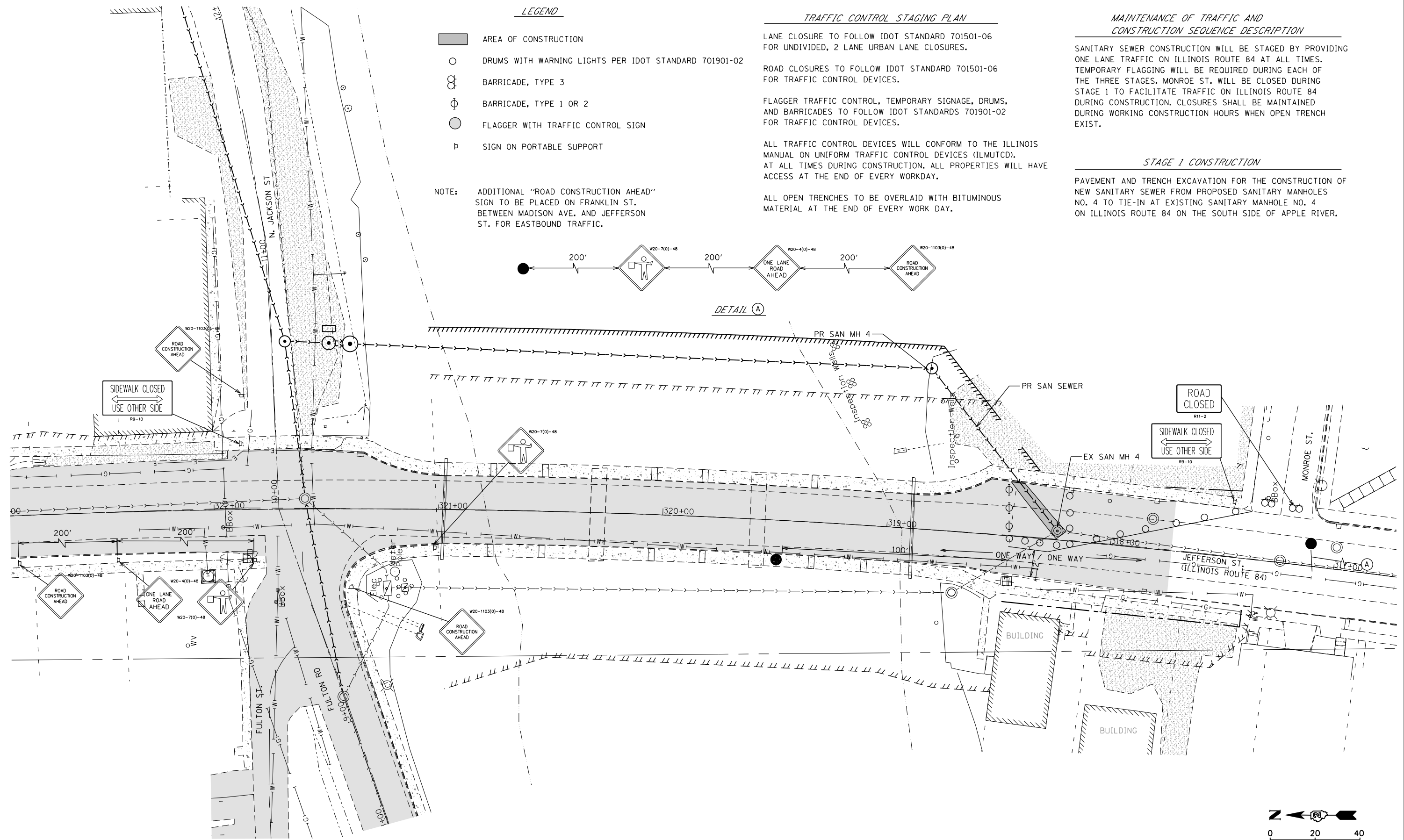
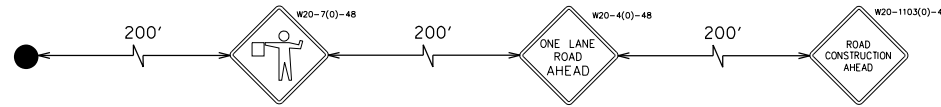
ALL OPEN TRENCHES TO BE OVERLAID WITH BITUMINOUS MATERIAL AT THE END OF EVERY WORK DAY.

MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE DESCRIPTION

SANITARY SEWER CONSTRUCTION WILL BE STAGED BY PROVIDING ONE LANE TRAFFIC ON ILLINOIS ROUTE 84 AT ALL TIMES. TEMPORARY FLAGGING WILL BE REQUIRED DURING EACH OF THE THREE STAGES. MONROE ST. WILL BE CLOSED DURING STAGE 1 TO FACILITATE TRAFFIC ON ILLINOIS ROUTE 84 DURING CONSTRUCTION. CLOSURES SHALL BE MAINTAINED DURING WORKING CONSTRUCTION HOURS WHEN OPEN TRENCH EXIST.

STAGE 1 CONSTRUCTION

PAVEMENT AND TRENCH EXCAVATION FOR THE CONSTRUCTION OF NEW SANITARY SEWER FROM PROPOSED SANITARY MANHOLES NO. 4 TO TIE-IN AT EXISTING SANITARY MANHOLE NO. 4 ON ILLINOIS ROUTE 84 ON THE SOUTH SIDE OF APPLE RIVER.



FILE NAME: G:\Microstation\2012\12-159A\CADD Drawings\12-159A - Traffic Control.dgn



USER NAME = tliezert	DESIGNED -	REVISED -
	DRAWN - TJL	REVISED -
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PLOT DATE = 7/24/2013	DATE - 09/14/12	REVISED -

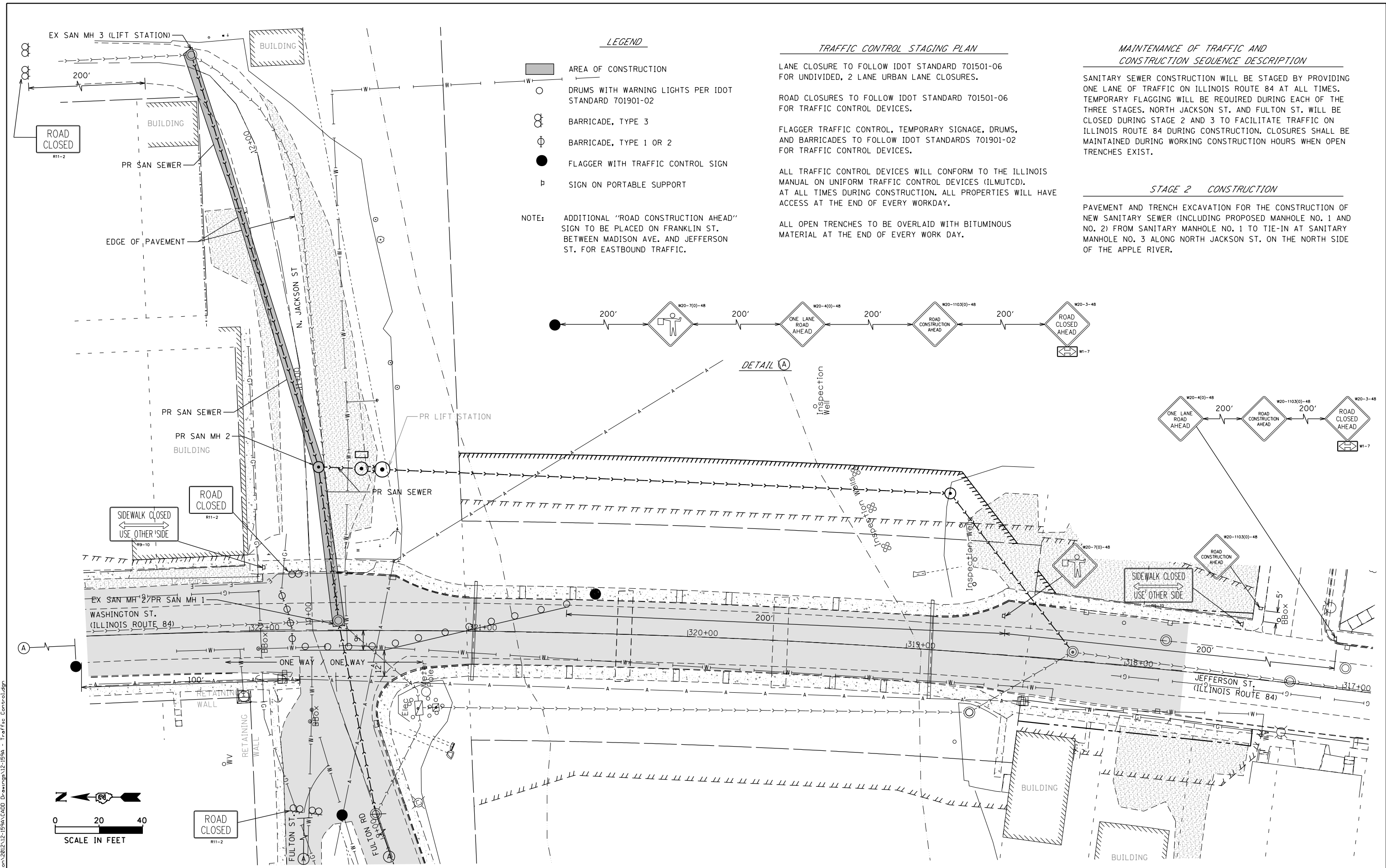
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

**MAINTENANCE OF TRAFFIC
STAGE 1**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	140
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 2 OF 10 SHEETS STA. TO STA.



LEGEND

- AREA OF CONSTRUCTION
- DRUMS WITH WARNING LIGHTS PER IDOT STANDARD 701901-02
- BARRICADE, TYPE 3
- BARRICADE, TYPE 1 OR 2
- FLAGGER WITH TRAFFIC CONTROL SIGN
- SIGN ON PORTABLE SUPPORT

NOTE: ADDITIONAL "ROAD CONSTRUCTION AHEAD" SIGN TO BE PLACED ON FRANKLIN ST. BETWEEN MADISON AVE. AND JEFFERSON ST. FOR EASTBOUND TRAFFIC.

TRAFFIC CONTROL STAGING PLAN

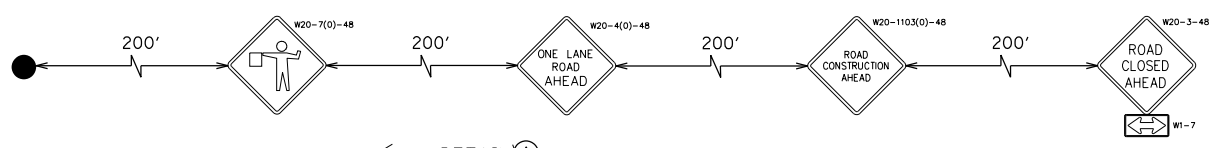
LANE CLOSURE TO FOLLOW IDOT STANDARD 701501-06 FOR UNDIVIDED, 2 LANE URBAN LANE CLOSURES.

ROAD CLOSURES TO FOLLOW IDOT STANDARD 701501-06 FOR TRAFFIC CONTROL DEVICES.

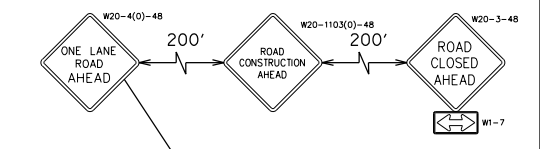
FLAGGER TRAFFIC CONTROL, TEMPORARY SIGNAGE, DRUMS, AND BARRICADES TO FOLLOW IDOT STANDARDS 701901-02 FOR TRAFFIC CONTROL DEVICES.

ALL TRAFFIC CONTROL DEVICES WILL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD). AT ALL TIMES DURING CONSTRUCTION, ALL PROPERTIES WILL HAVE ACCESS AT THE END OF EVERY WORKDAY.

ALL OPEN TRENCHES TO BE OVERLAID WITH BITUMINOUS MATERIAL AT THE END OF EVERY WORK DAY.



DETAIL (A)

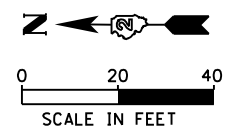


MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE DESCRIPTION

SANITARY SEWER CONSTRUCTION WILL BE STAGED BY PROVIDING ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 84 AT ALL TIMES. TEMPORARY FLAGGING WILL BE REQUIRED DURING EACH OF THE THREE STAGES. NORTH JACKSON ST. AND FULTON ST. WILL BE CLOSED DURING STAGE 2 AND 3 TO FACILITATE TRAFFIC ON ILLINOIS ROUTE 84 DURING CONSTRUCTION. CLOSURES SHALL BE MAINTAINED DURING WORKING CONSTRUCTION HOURS WHEN OPEN TRENCHES EXIST.

STAGE 2 CONSTRUCTION

PAVEMENT AND TRENCH EXCAVATION FOR THE CONSTRUCTION OF NEW SANITARY SEWER (INCLUDING PROPOSED MANHOLE NO. 1 AND NO. 2) FROM SANITARY MANHOLE NO. 1 TO TIE-IN AT SANITARY MANHOLE NO. 3 ALONG NORTH JACKSON ST. ON THE NORTH SIDE OF THE APPLE RIVER.



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DATE - 09/14/12	REVISOR -	

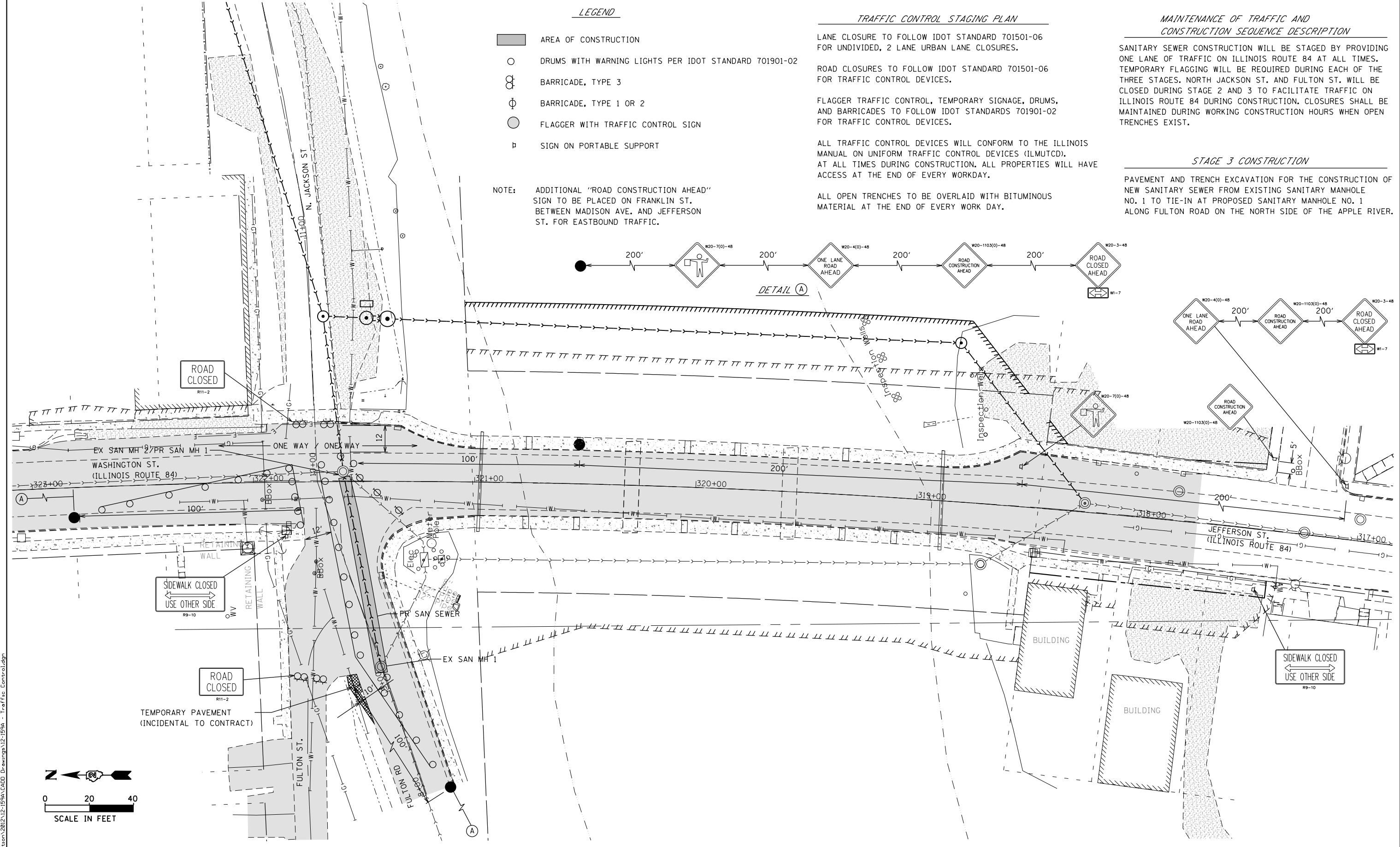
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

**MAINTENANCE OF TRAFFIC
STAGE 2**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVISS	159	141
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 3 OF 10 SHEETS STA. TO STA.



LEGEND

- AREA OF CONSTRUCTION
- DRUMS WITH WARNING LIGHTS PER IDOT STANDARD 701901-02
- ⊗ BARRICADE, TYPE 3
- ⊕ BARRICADE, TYPE 1 OR 2
- ⊙ FLAGGER WITH TRAFFIC CONTROL SIGN
- ▣ SIGN ON PORTABLE SUPPORT

NOTE: ADDITIONAL "ROAD CONSTRUCTION AHEAD" SIGN TO BE PLACED ON FRANKLIN ST. BETWEEN MADISON AVE. AND JEFFERSON ST. FOR EASTBOUND TRAFFIC.

TRAFFIC CONTROL STAGING PLAN

LANE CLOSURE TO FOLLOW IDOT STANDARD 701501-06 FOR UNDIVIDED, 2 LANE URBAN LANE CLOSURES.

ROAD CLOSURES TO FOLLOW IDOT STANDARD 701501-06 FOR TRAFFIC CONTROL DEVICES.

FLAGGER TRAFFIC CONTROL, TEMPORARY SIGNAGE, DRUMS, AND BARRICADES TO FOLLOW IDOT STANDARDS 701901-02 FOR TRAFFIC CONTROL DEVICES.

ALL TRAFFIC CONTROL DEVICES WILL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD). AT ALL TIMES DURING CONSTRUCTION, ALL PROPERTIES WILL HAVE ACCESS AT THE END OF EVERY WORKDAY.

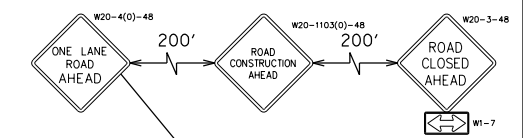
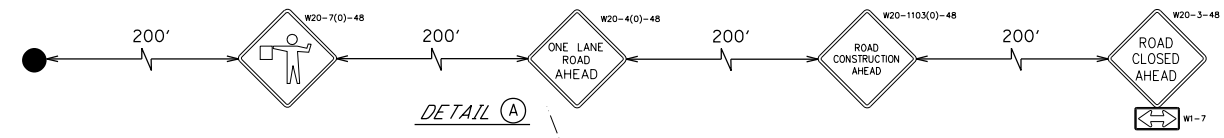
ALL OPEN TRENCHES TO BE OVERLAID WITH BITUMINOUS MATERIAL AT THE END OF EVERY WORKDAY.

MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE DESCRIPTION

SANITARY SEWER CONSTRUCTION WILL BE STAGED BY PROVIDING ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 84 AT ALL TIMES. TEMPORARY FLAGGING WILL BE REQUIRED DURING EACH OF THE THREE STAGES. NORTH JACKSON ST. AND FULTON ST. WILL BE CLOSED DURING STAGE 2 AND 3 TO FACILITATE TRAFFIC ON ILLINOIS ROUTE 84 DURING CONSTRUCTION. CLOSURES SHALL BE MAINTAINED DURING WORKING CONSTRUCTION HOURS WHEN OPEN TRENCHES EXIST.

STAGE 3 CONSTRUCTION

PAVEMENT AND TRENCH EXCAVATION FOR THE CONSTRUCTION OF NEW SANITARY SEWER FROM EXISTING SANITARY MANHOLE NO. 1 TO TIE-IN AT PROPOSED SANITARY MANHOLE NO. 1 ALONG FULTON ROAD ON THE NORTH SIDE OF THE APPLE RIVER.



FILE NAME: G:\Information\2012\12-159A\CADD Drawings\12-159A - Traffic Control.dgn



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PLOT SCALE = 40.0000' / in.	DRAWN - TJL	REVISED -
PLOT DATE = 8/6/2013	CHECKED - TMH	REVISED -
	DATE - 09/14/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

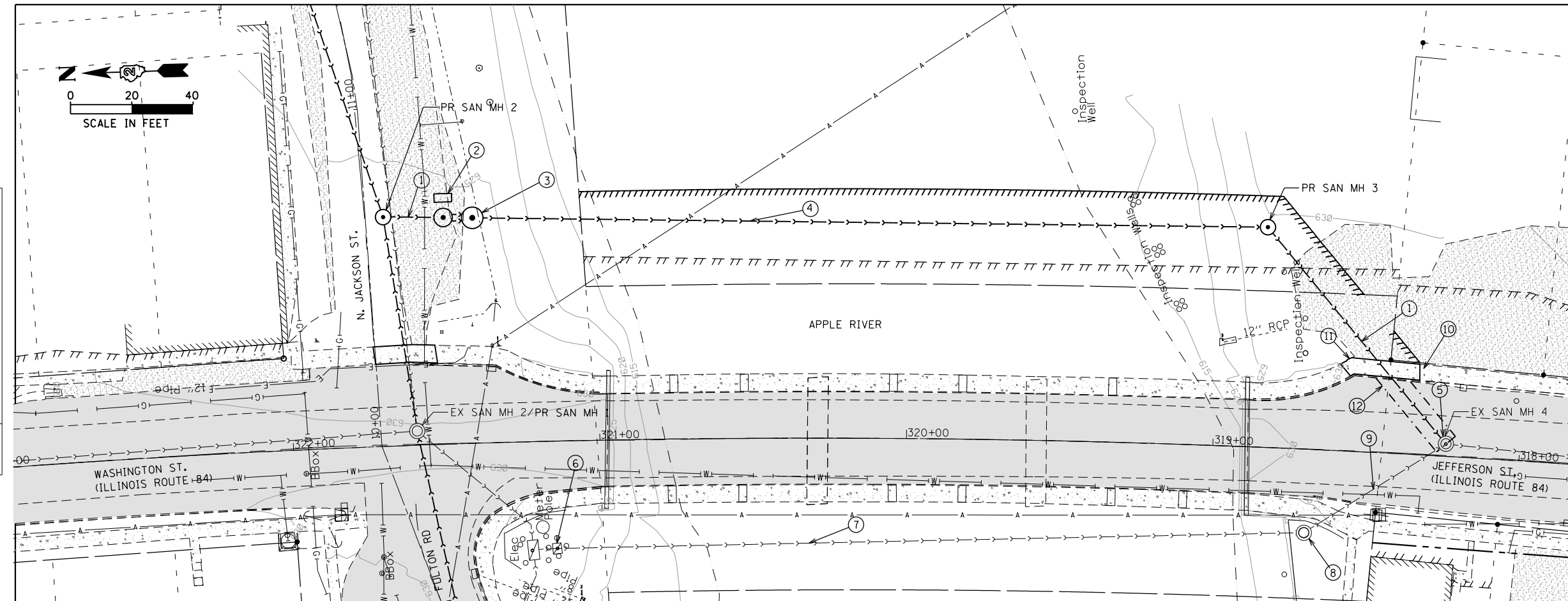
**MAINTENANCE OF TRAFFIC
STAGE 3**

SCALE: 1"=20' SHEET NO. 4 OF 10 SHEETS STA. TO STA.

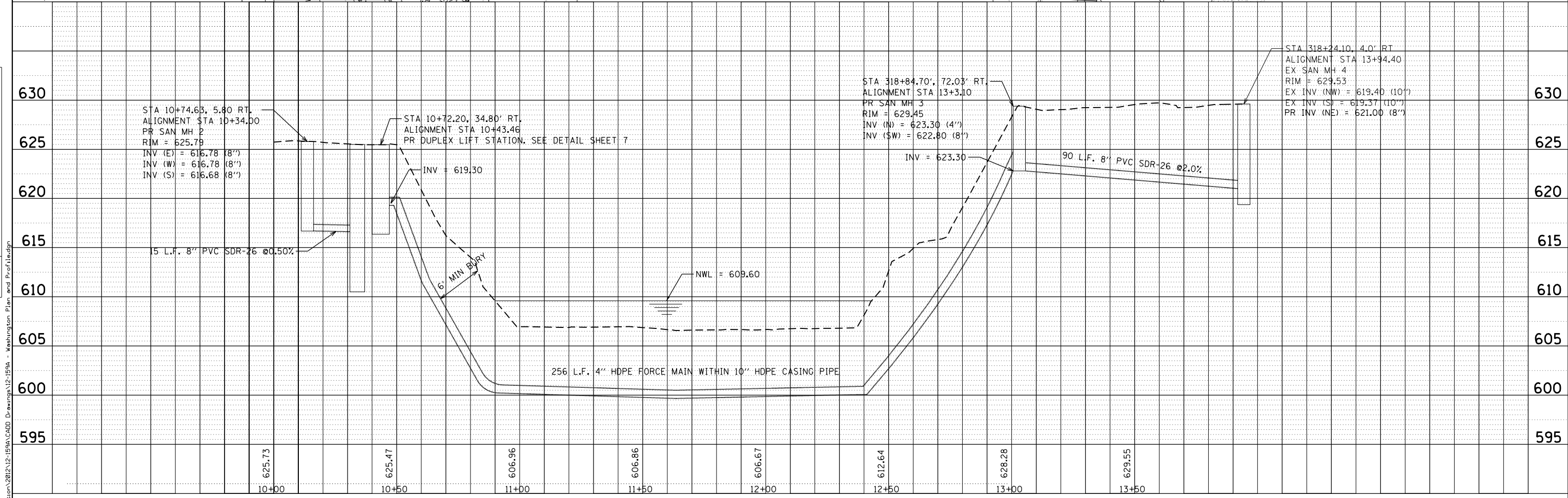
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	142
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	



- ### KEY NOTES
1. PROPOSED 105 LF OF 8" PVC SDR-26 SANITARY SEWER.
 2. PROPOSED ELECTRICAL PANEL MOUNTING STRUCTURE. SEE DETAIL SHEET 7
 3. PROPOSED DUPLEX LIFT STATION. SEE DETAIL SHEET 7.
 4. PROPOSED 256 LF OF 4" HDPE SANITARY FORCE MAIN WITHIN 10" HDPE CASING PIPE.
 5. CONNECTION TO EXISTING MANHOLE (CORE DRILL & RUBBER BOOT), MANHOLE CLEANING/VACUUM INCIDENTAL TO CONTRACT.
 6. EXISTING LIFT STATION TO BE ABANDONED. SEE SHEET 6.
 7. EXISTING 4" FORCE MAIN WITHIN 10" CASING TO BE ABANDONED.
 8. EXISTING SANITARY MANHOLE TO BE ABANDONED. EXISTING PIPES SHALL BE PLUGGED WITH 2' BULKHEAD OF CONCRETE. REMOVE TOP SECTION OF MANHOLE TO 18" BELOW GRADE, FILL WITH GRAVEL AND CAP WITH 6" CONCRETE SLAB. FILL TO GRADE WITH TOPSOIL AND SEED DISTURBED AREAS.
 9. EXISTING 10" SANITARY SEWER TO BE ABANDONED. ABANDONED IN PLACE SANITARY SEWER UNDER CURB & GUTTER OR PAVEMENT SECTIONS SHALL BE FILLED WITH FLOWABLE FILL (CLSM) ART 1019.
 10. 125 SF PCC SIDEWALK, 5"
 11. 20 FT COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.
 12. LIMITS OF PROPOSED TEMPORARY PAVEMENT. SEE DETAIL SHEET 8.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

**PLAN AND PROFILE STA.
10+00 LIFT STATION**

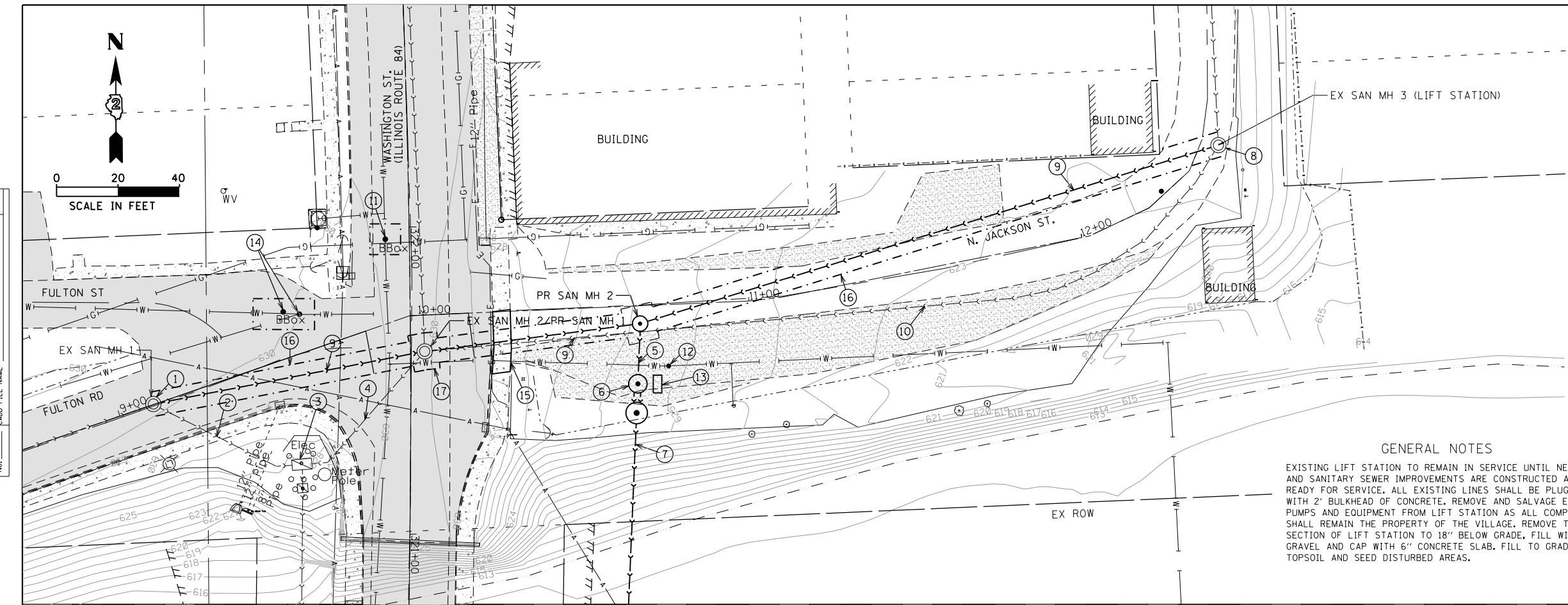
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308	103 BR-4	JO DAVIESS	159	143
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 5 OF 10 SHEETS STA. TO STA.

FILE NAME: G:\Microstation\2012\12-159A\CADD Drawings\12-159A - Washington Plan and Profile.dgn

DATE	
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NOTED	
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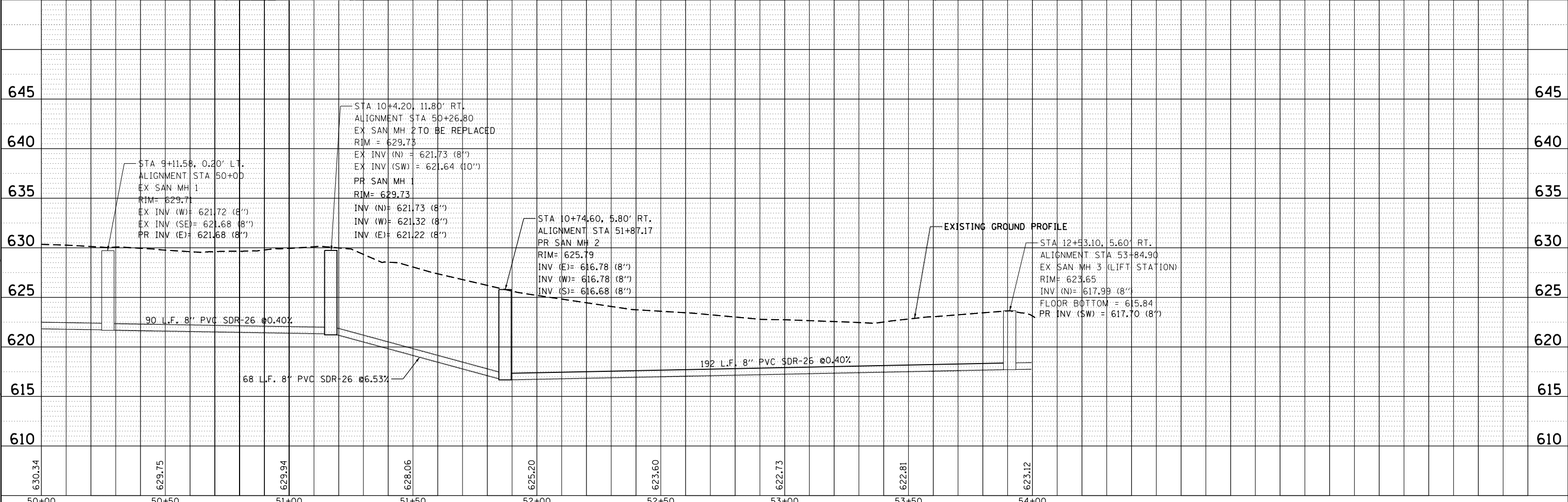
DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



- KEY NOTES**
1. CONNECTION TO EXISTING MANHOLE (COREDRILL & RUBBER BOOT).
 2. EXISTING 8" SANITARY SEWER TO BE ABANDONED. LINE SHALL BE FILLED WITH GRAVEL AND 2" BULKHEAD OF CONCRETE.
 3. EXISTING LIFT STATION TO BE ABANDONED. SEE GENERAL NOTES.
 4. EXISTING 10" SANITARY SEWER TO BE ABANDONED. ABANDONED IN PLACE SANITARY SEWER UNDER CURB & GUTTER OR PAVEMENT SECTION SHALL BE FILLED WITH FLOWABLE FILL (CLSM) ART 1019.
 5. PROPOSED SANITARY SEWER. SEE SHEET 5.
 6. PROPOSED DUPLEX STATION. SEE DETAIL SHEET 7.
 7. PROPOSED SANITARY FORCE MAIN. SEE SHEET 5.
 8. CONNECTION TO EXISTING MANHOLE (CORE DRILL & RUBBER BOOT), MANHOLE CLEANING/VACUUM INCIDENTAL TO CONTRACT. EXISTING LIFT STATION PUMPS AND EQUIPMENT SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE VILLAGE. A CONCRETE FILLET SHALL BE PLACED IN THE MANHOLE BOTTOM FOR PROPOSED FLOW DIRECTION.
 9. PROPOSED 350 LF OF 8" PVC SDR-26 SANITARY SEWER.
 10. EXISTING 2" FORCE MAIN TO BE ABANDONED.
 11. EXISTING 4" GATE VALVE AND BOX TO BE REPLACED.
 12. PROPOSED 8" GATE VALVE AND BOX.
 13. PROPOSED ELECTRICAL PANEL MOUNTING STRUCTURE. SEE DETAIL SHEET 7.
 14. EXISTING 8" WATER MAIN, VALVES AND FITTING TO BE REPLACED. SEE DETAIL SHEET 8.
 15. 13 50 YD PCC DRIVEWAY, 7"
 16. LIMITS OF PROPOSED TEMPORARY PAVEMENT. SEE DETAIL SHEET 8.
 17. LIMITS OF PROPOSED HMA PAVEMENT (FULL-DEPTH). SEE DETAIL SHEET 8.

GENERAL NOTES

EXISTING LIFT STATION TO REMAIN IN SERVICE UNTIL NEW LIFT AND SANITARY SEWER IMPROVEMENTS ARE CONSTRUCTED AND READY FOR SERVICE. ALL EXISTING LINES SHALL BE PLUGGED WITH 2" BULKHEAD OF CONCRETE. REMOVE AND SALVAGE EXISTING PUMPS AND EQUIPMENT FROM LIFT STATION AS ALL COMPONENTS SHALL REMAIN THE PROPERTY OF THE VILLAGE. REMOVE TOP SECTION OF LIFT STATION TO 18" BELOW GRADE, FILL WITH GRAVEL AND CAP WITH 6" CONCRETE SLAB. FILL TO GRADE WITH TOPSOIL AND SEED DISTURBED AREAS.



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	DATE - 09/14/12	REVISED -

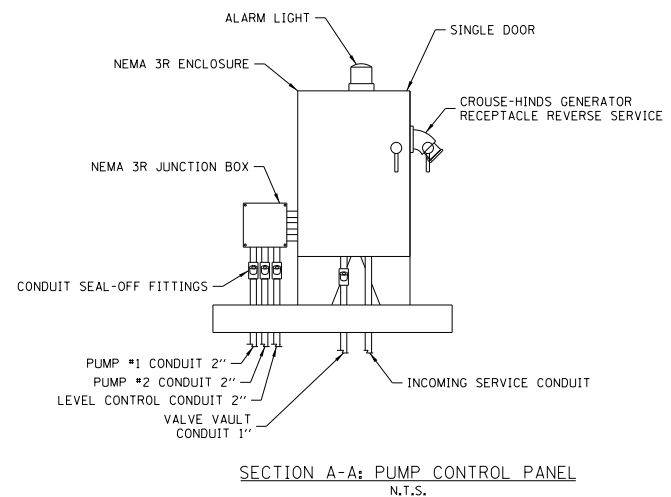
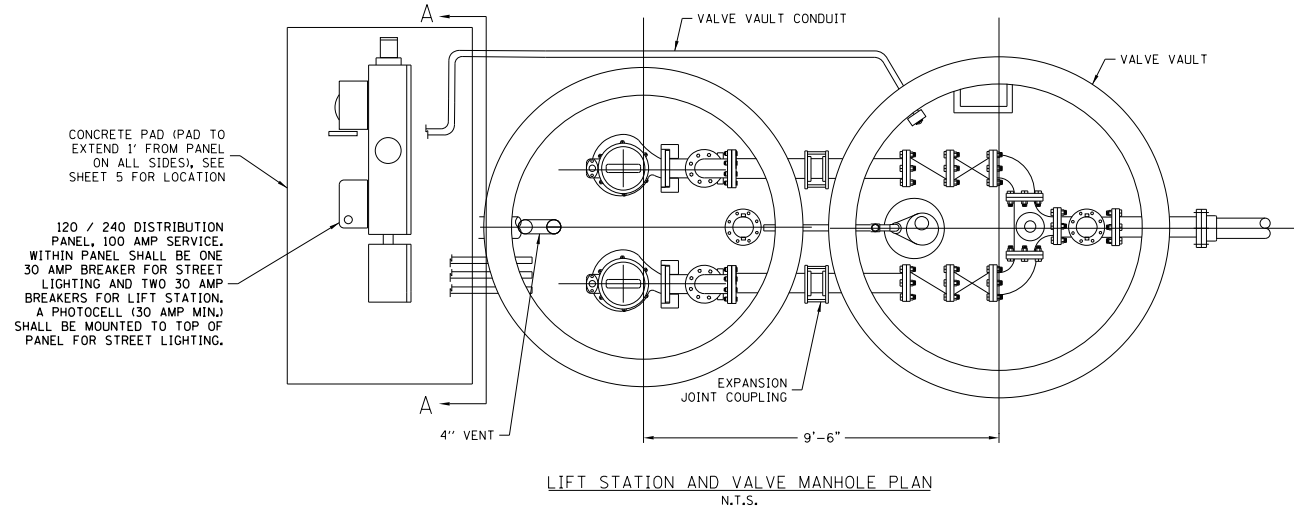
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

**PLAN AND PROFILE STA.
50 + 00 LIFT STATION**

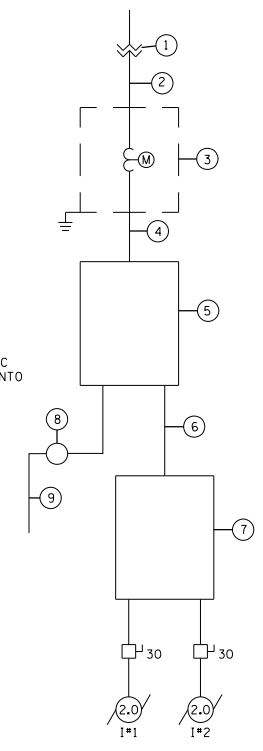
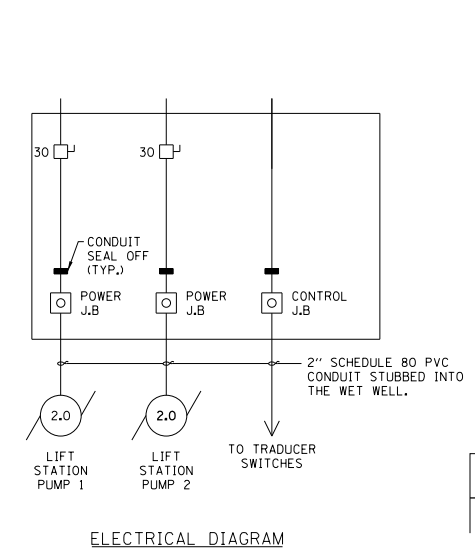
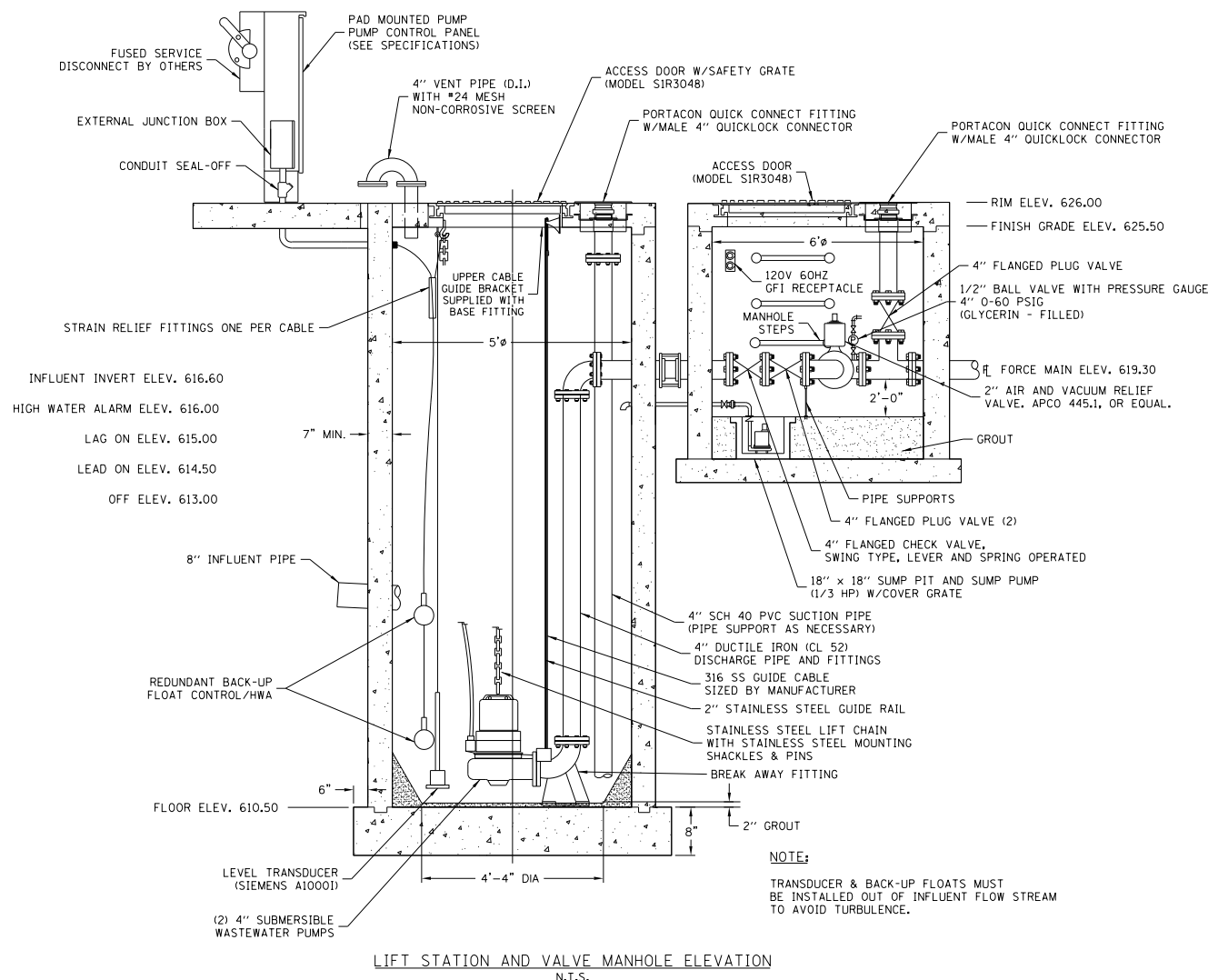
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	144
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 6 OF 10 SHEETS STA. TO STA.



PUMP SPECIFICATIONS		INCOMING SERVICE	
GROUND FOS PUMP MODEL	SLV.30.40.20.A.EX.4.61J	VOLTS	230
DESIGN CAPACITY	150 GPM @ 19 TDH	AMPS	100
IMPELLER	6-11/16" trim	PHASE	3
HORSEPOWER	2.0	HERTZ	60
RPM	1750	WIRE	3

- GENERAL NOTES:**
- PUMP SUCTION AND DISCHARGE SHALL BE 4" DIAMETER. PUMPS SHALL BE CAPABLE OF PASSING 3" DIAMETER SPHERES. SEE SPECIFICATIONS.
 - LIFT STATION SHALL BE CONSTRUCTED OF PREFABRICATED CONCRETE STRUCTURES. SEE SPECIFICATIONS.
 - ALL ELECTRICAL MOTORS & WIRING SHALL COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE EDITION.
 - LINK-SEAL SHALL BE USED FOR ALL PIPE PENETRATES WITH STRUCTURES.



- KEY NOTES**
- EXISTING POLE-MOUNTED TRANSFORMERS BY VILLAGE.
 - 240 VAC - 3 PHASE - WIRE BY VILLAGE
 - METER BASE / FUSED DISCONNECT BY VILLAGE
 - 4 - #4, 1 - #4 EG, 2" C
 - 120 / 240 DISTRIBUTION PANEL, 100 AMP SERVICE
 - 3 - #6, 1 - #10 EG, 1" C.
 - PUMP CONTROL PANEL SUPPLIED BY PUMP MANUFACTURER. INSTALLED BY ELECTRICAL CONTRACTOR.
 - STREET LIGHT PHOTO CELL (30 AMP)
 - 2 - #4, 1 - #4 EG, 2" C FOR STREET LIGHTING

NOTE:
TRANSDUCER & BACK-UP FLOATS MUST BE INSTALLED OUT OF INFLUENT FLOW STREAM TO AVOID TURBULENCE.

FILE NAME: G:\projects\station\2012\159A\CADD Drawings\12-159A - Detail.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 04-00020

USER NAME = tizer	DESIGNED - TMH	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - YG	REVISED -
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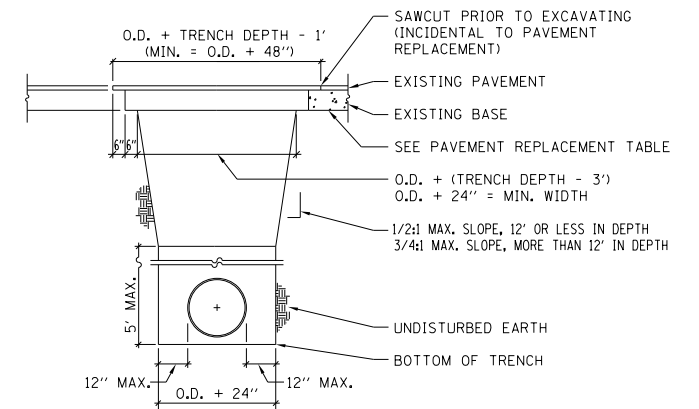
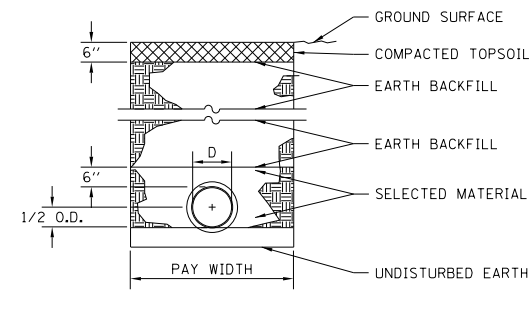
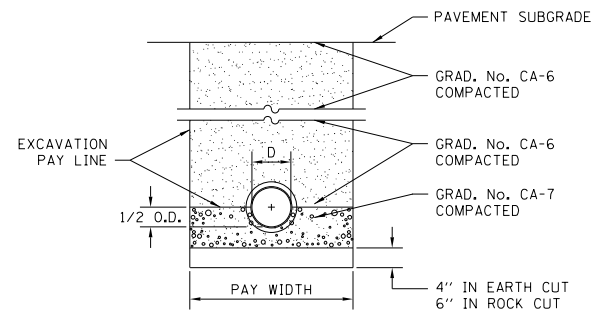
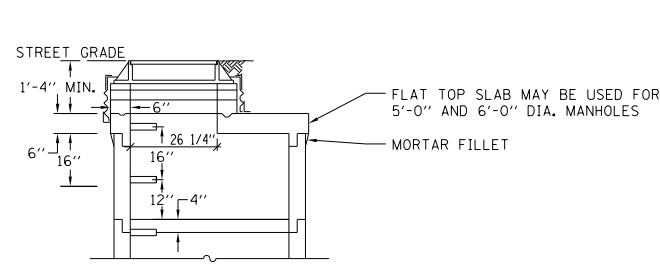
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

LIFT STATION DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	145
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 7 OF 10 SHEETS STA. TO STA.



PAY WIDTH:

4.17'	FOR 12"
3.97'	FOR 10"
3.78'	FOR 8"
3.58'	FOR 6"
3.58'	FOR 4"

PAY WIDTH:

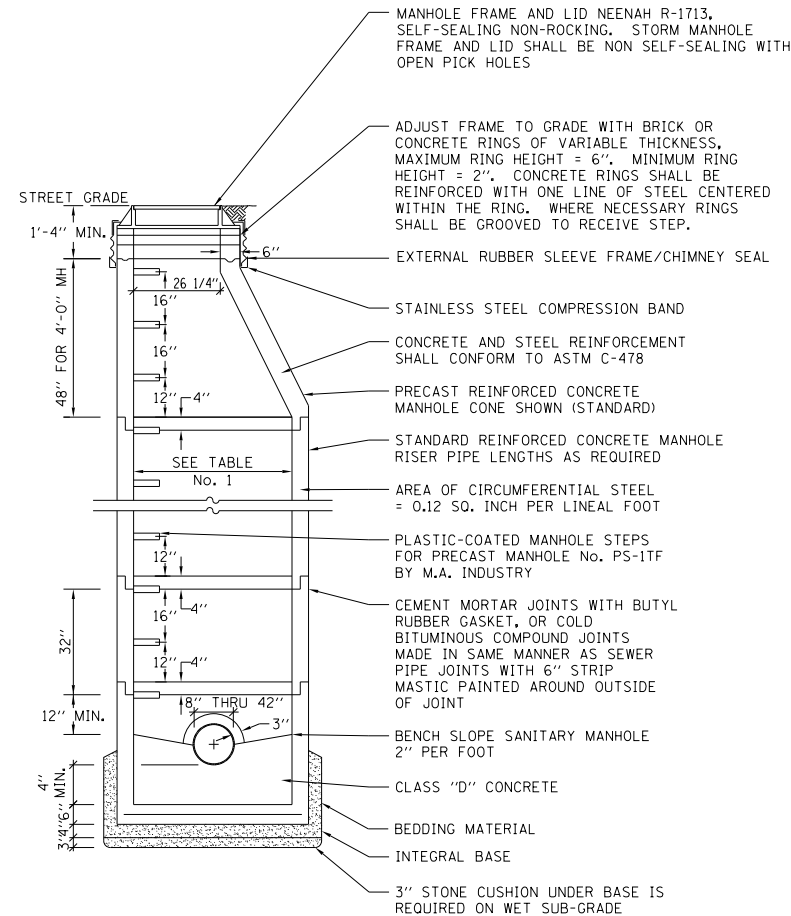
4.56'	FOR 16"
4.17'	FOR 12"
3.97'	FOR 10"
3.78'	FOR 8"
3.58'	FOR 6"
3.58'	FOR 4"

**SANITARY SEWER TRENCH SECTION
IN PAVED AREAS AND DRIVEWAYS**

**SANITARY SEWER MAIN TRENCH SECTION
IN GRASSED AREAS**

N.T.S.

N.T.S.

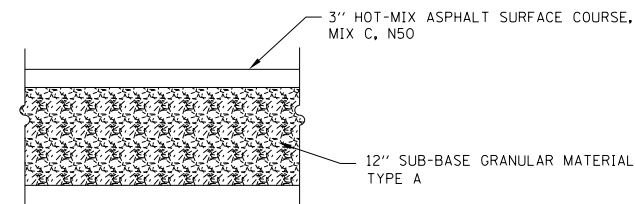


NOTE: TYPE I FRAME/ CHIMNEY JOINT REQUIRED ON ALL SANITARY MANHOLES UNLESS OTHERWISE SPECIFIED. TYPE III JOINT REQUIRED IN ALL STORM MANHOLES

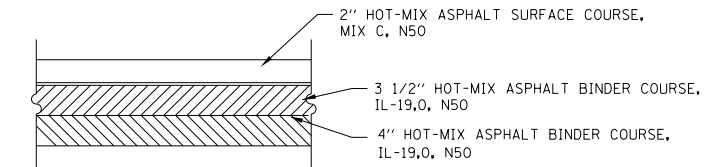
TABLE No. 1

PIPE DIA.	MH DIA.	WALL THICKNESS
8" THRU 30"	4'-0"	5"
36"	5'-0"	6"
42"	6'-0"	7"

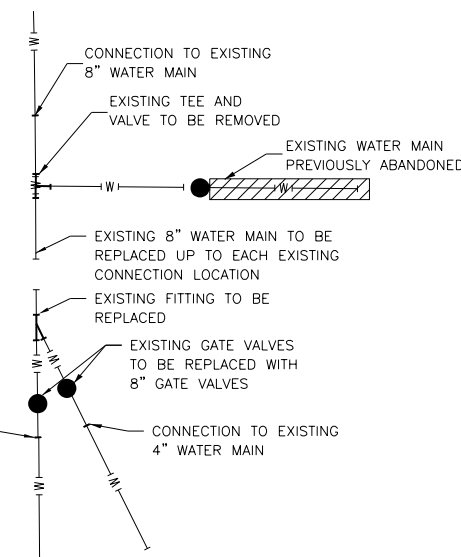
PRECAST MANHOLE
N.T.S.



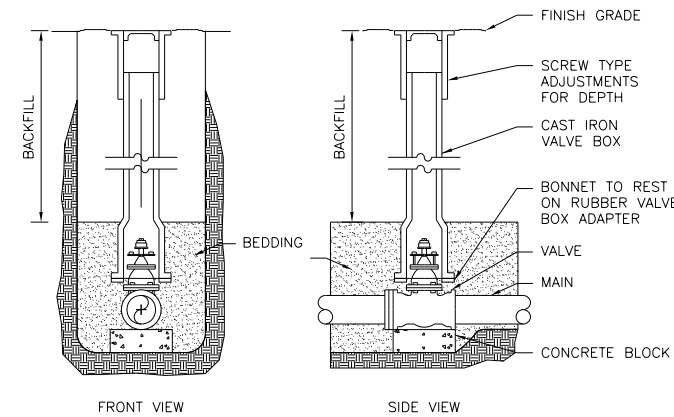
TEMPORARY PAVEMENT
N.T.S.



HMA PAVEMENT (FULL-DEPTH)
STATION 9+80.00-10+19.00
N.T.S.

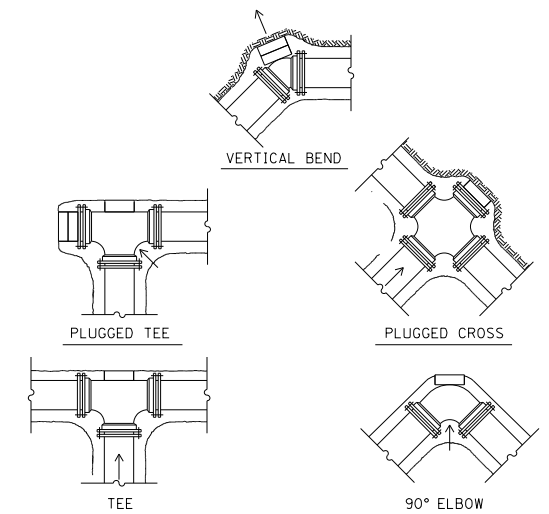


PROPOSED WATER MAIN REPLACEMENT
N.T.S.



NOTES:
VALVE AND BOX SHALL INCLUDE VALVE, VALVE BOX, BLOCKING AND ANY ADJUSTMENTS NEEDED TO MATCH FINISH GRADE. THIS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR THE TYPE OF VALVE AND BOX AS INDICATED ON THE PLANS.

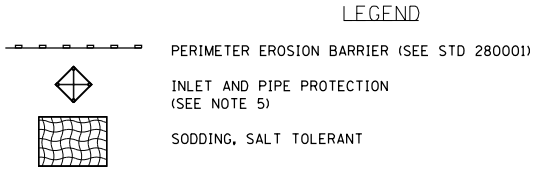
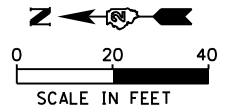
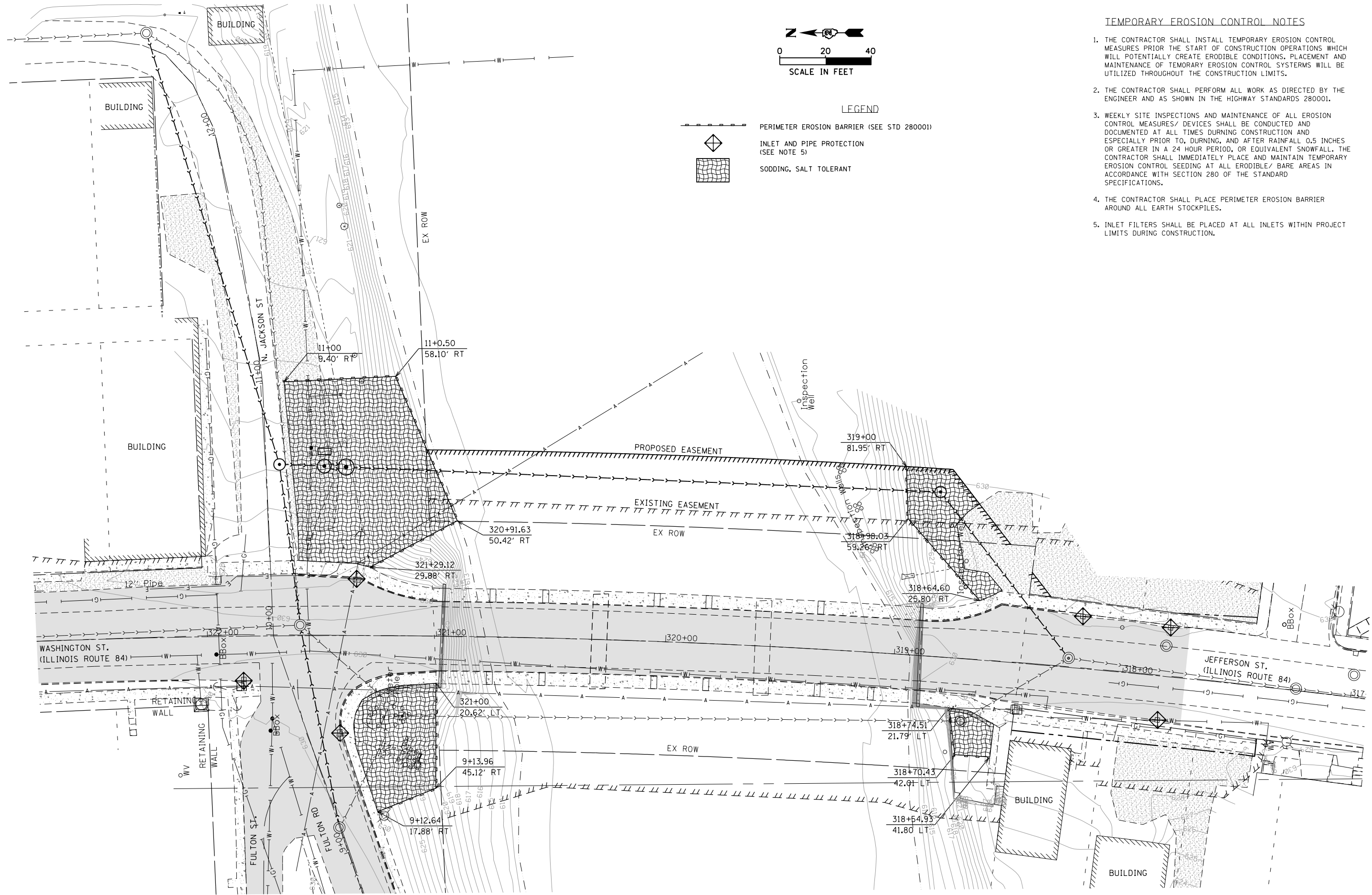
VALVE & BOX INSTALLATION
N.T.S.



THRUST BLOCK INSTALLATION
N.T.S.

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FILE NAME: G:\projects\2012\12-159A\CADD_Drawing\12-159A - Erosion Control Plans.dwg



- TEMPORARY EROSION CONTROL NOTES**
1. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
 2. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN THE HIGHWAY STANDARDS 280001.
 3. WEEKLY SITE INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES/ DEVICES SHALL BE CONDUCTED AND DOCUMENTED AT ALL TIMES DURING CONSTRUCTION AND ESPECIALLY PRIOR TO, DURING, AND AFTER RAINFALL 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. THE CONTRACTOR SHALL IMMEDIATELY PLACE AND MAINTAIN TEMPORARY EROSION CONTROL SEEDING AT ALL ERODIBLE/ BARE AREAS IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.
 4. THE CONTRACTOR SHALL PLACE PERIMETER EROSION BARRIER AROUND ALL EARTH STOCKPILES.
 5. INLET FILTERS SHALL BE PLACED AT ALL INLETS WITHIN PROJECT LIMITS DURING CONSTRUCTION.



USER NAME = tizerst	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - YG	REVISED -
PLOT DATE = 8/6/2013	CHECKED - TMH	REVISED -
	DATE - 09/14/12	REVISED -

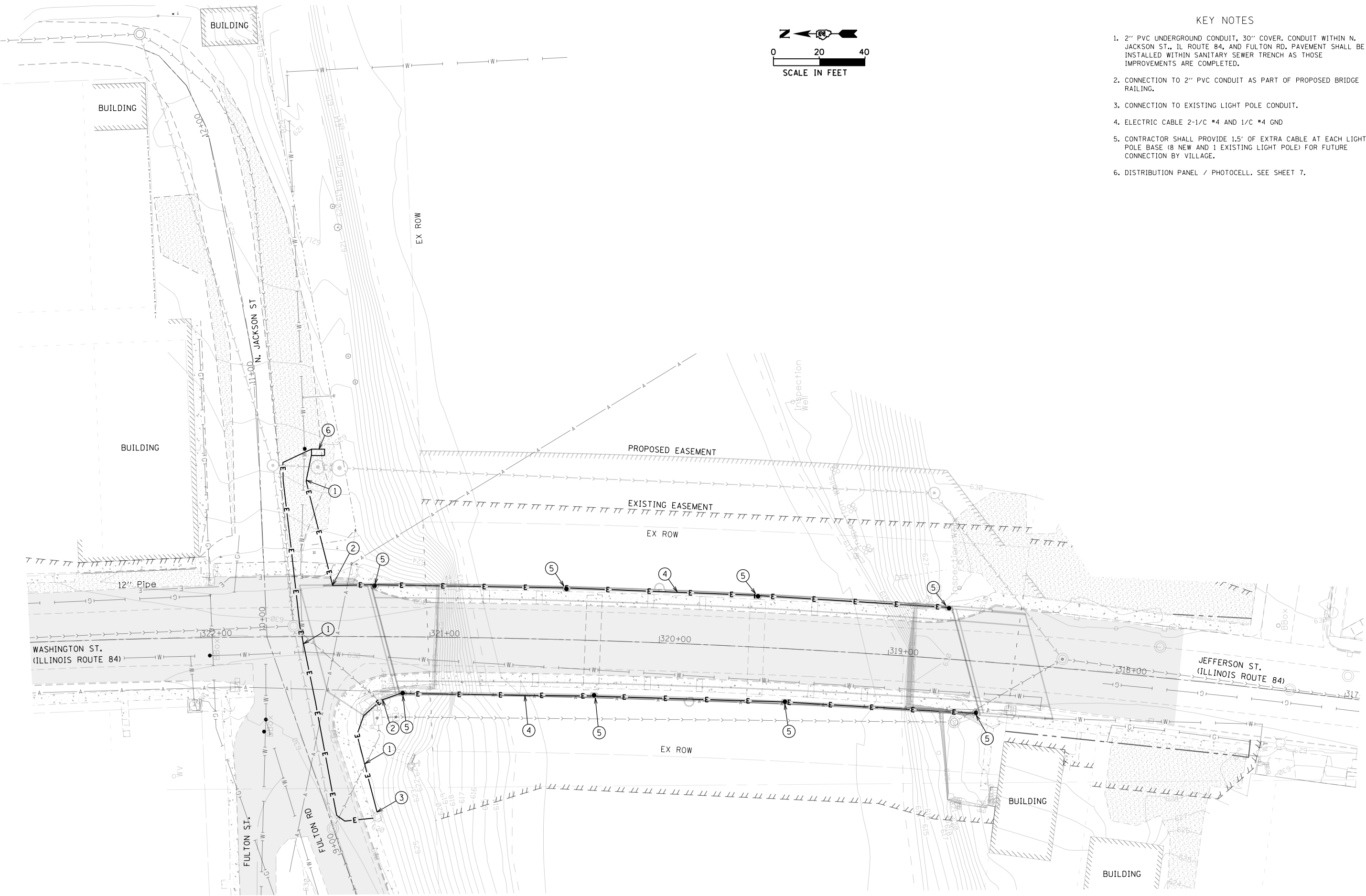
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 84
OVER APPLE RIVER**

EROSION CONTROL PLAN

SCALE: 1"=20' SHEET NO. 9 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	147
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



- KEY NOTES**
1. 2" PVC UNDERGROUND CONDUIT, 30" COVER, CONDUIT WITHIN N. JACKSON ST., IL ROUTE 84, AND FULTON RD. PAVEMENT SHALL BE INSTALLED WITHIN SANITARY SEWER TRENCH AS THOSE IMPROVEMENTS ARE COMPLETED.
 2. CONNECTION TO 2" PVC CONDUIT AS PART OF PROPOSED BRIDGE RAILING.
 3. CONNECTION TO EXISTING LIGHT POLE CONDUIT.
 4. ELECTRIC CABLE 2-1/C #4 AND 1/C #4 GND
 5. CONTRACTOR SHALL PROVIDE 1.5' OF EXTRA CABLE AT EACH LIGHT POLE BASE (8 NEW AND 1 EXISTING LIGHT POLE) FOR FUTURE CONNECTION BY VILLAGE.
 6. DISTRIBUTION PANEL / PHOTOCELL. SEE SHEET 7.

FILE NAME: G:\Projects\2012\12-159A\CADD_Drawing\12-159A - Lighting Plan.dgn
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PLOT DATE = 7/24/2013	CHECKED - TMH	REVISED -
	DATE - 09/14/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

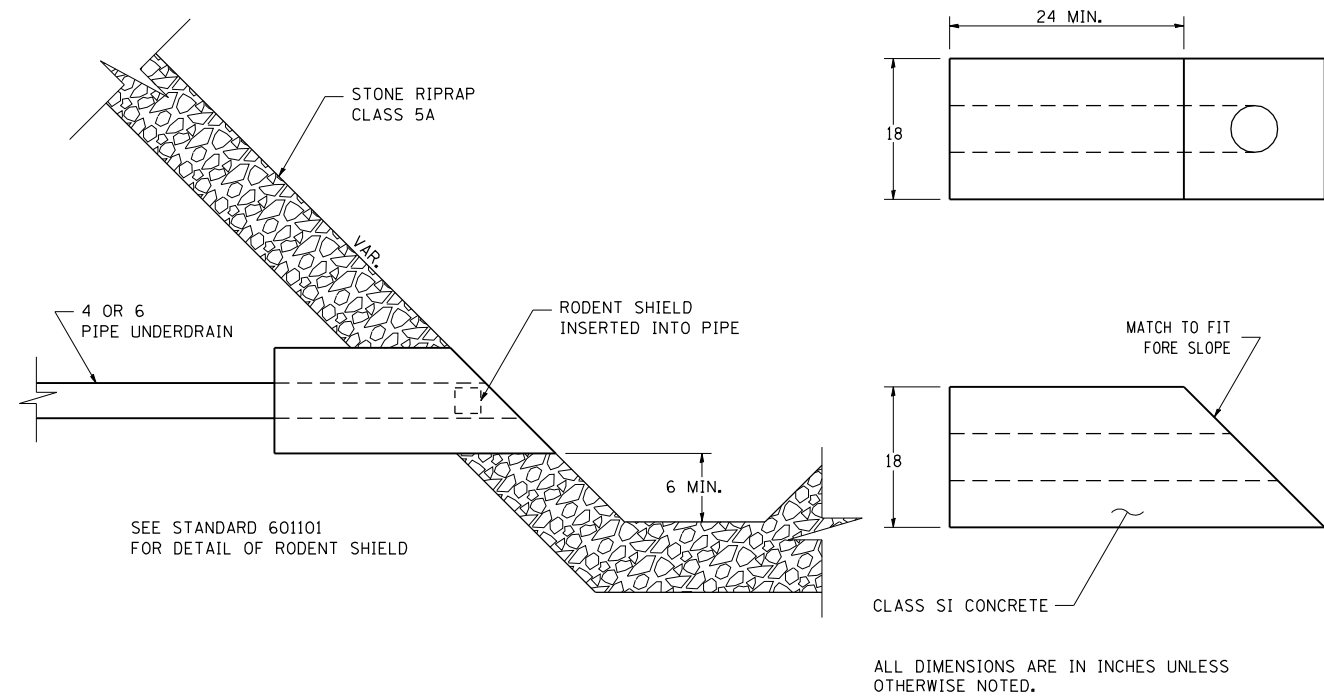
**IL ROUTE 84
 OVER APPLE RIVER**

LIGHTING PLAN

SCALE: 1"=20' SHEET NO. 10 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103 BR-4	JO DAVIESS	159	148
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

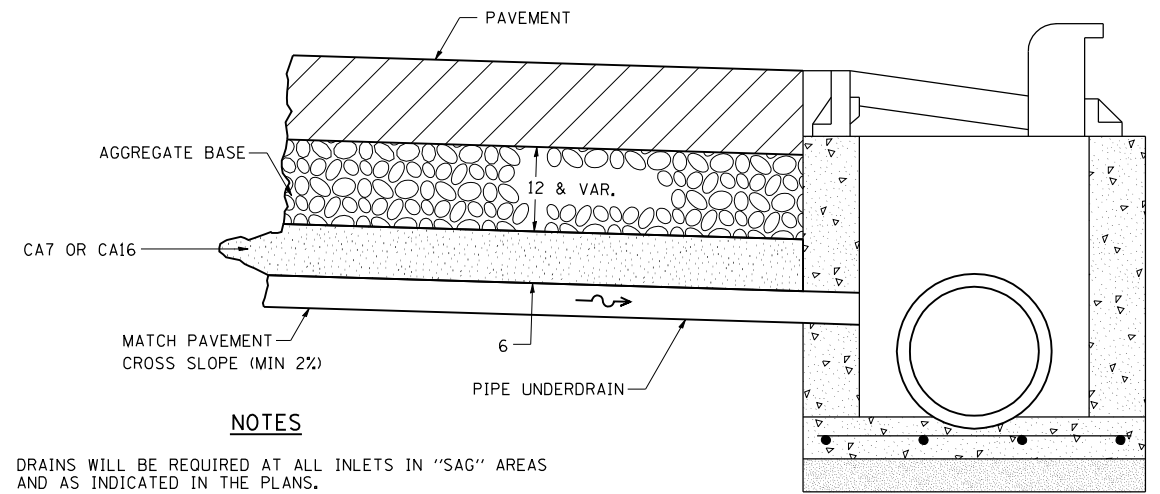
CONCRETE HEADWALLS FOR PIPE DRAINS



REVISED - 10-03-11

CONCRETE HEADWALLS FOR PIPE DRAINS 27.4

DRAIN FOR AGGREGATE BASES IN URBAN AREAS



NOTES

DRAINS WILL BE REQUIRED AT ALL INLETS IN "SAG" AREAS AND AS INDICATED IN THE PLANS.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

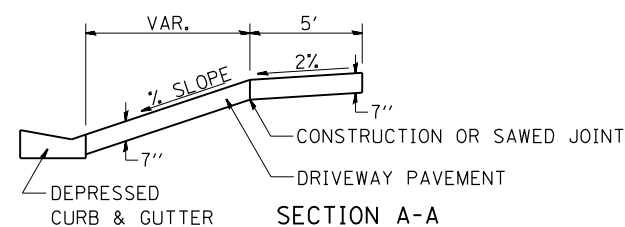
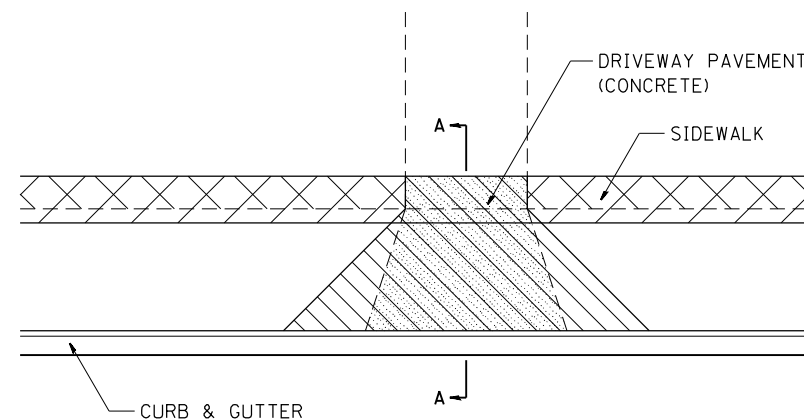
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-05-11

DRAIN FOR AGGREGATE BASES IN URBAN AREAS 88.4

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.

REVISED - 10-03-11

SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS 35.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 24 x 24

4 CAPITAL LETTERS - BLACK

1/2 BORDER - BLACK

WHITE REFLECTIVE - TYPE AP HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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

REGION 2 / DISTRICT 2 STANDARD

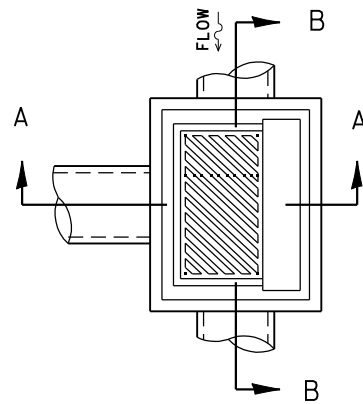
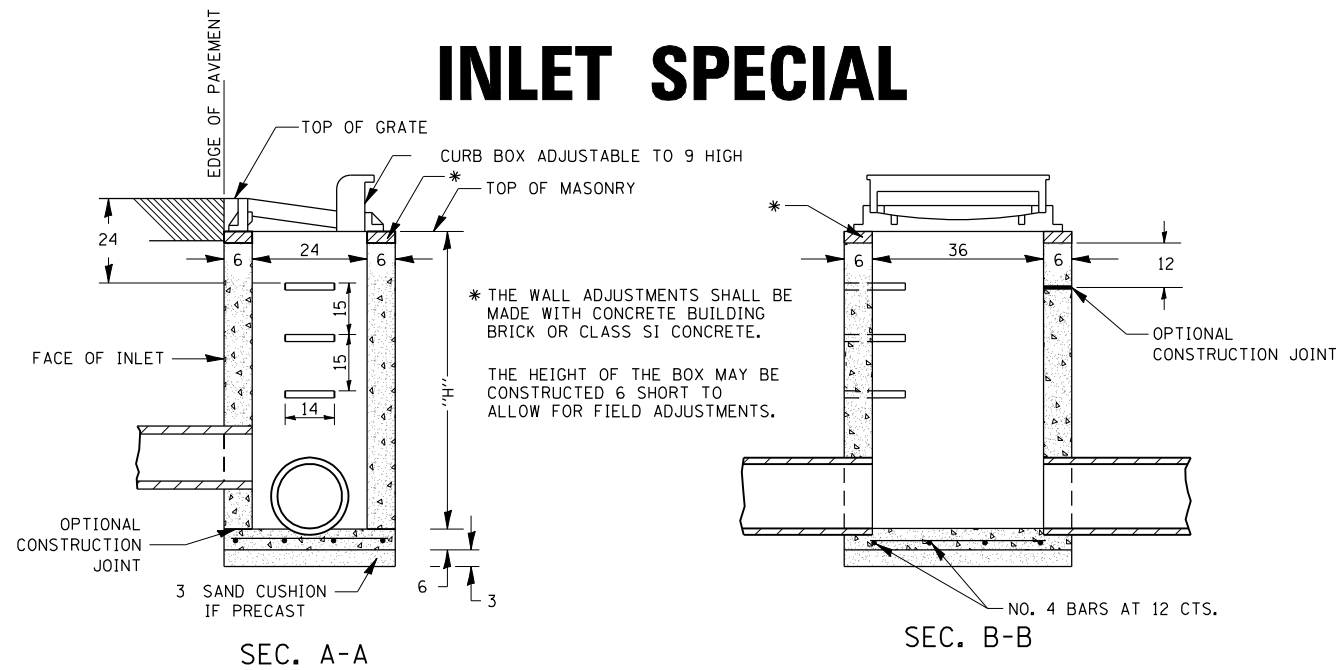
SCALE: 102.3636 1/4" = 1' SHEET NO. 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	149
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E08	

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

PLOT DATE = 8/5/2013

INLET SPECIAL

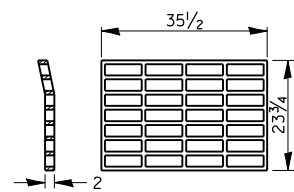


DETAIL OF FRAME & GRATE

NOTES

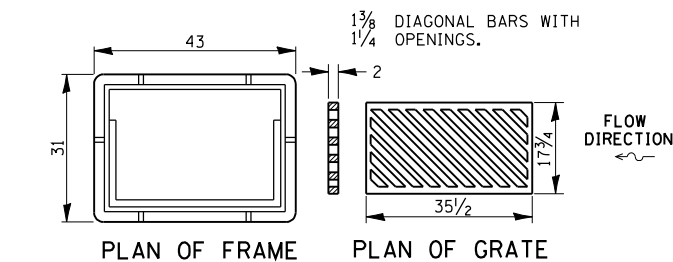
CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.



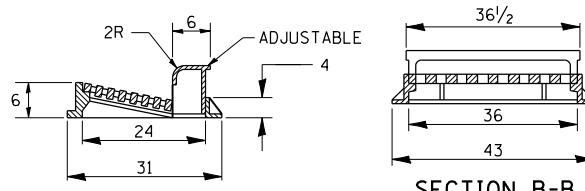
PLAN OF GRATE *

* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



PLAN OF FRAME

PLAN OF GRATE

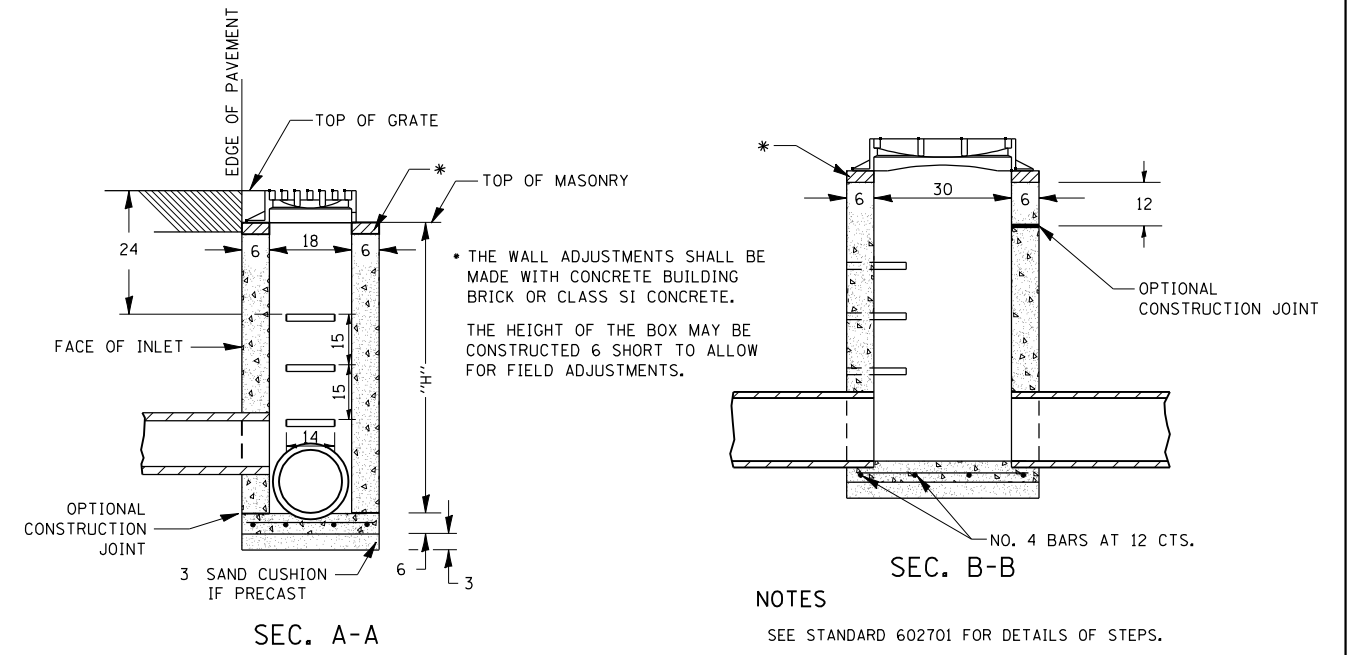


SECTION A-A

SECTION B-B

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INLET SPECIAL NO. 2



NOTES

- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
- THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.
- ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.
- STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FOOT.
- INLET SPECIAL NO. 2 SHALL MATCH THE EXISTING STORM SEWER AS SHOWN ON THE PLANS.

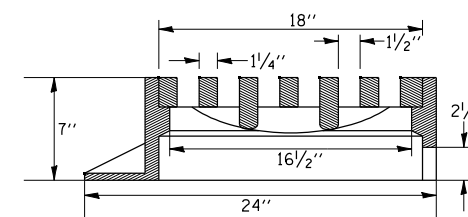
DETAIL OF FRAME & GRATE

NOTES

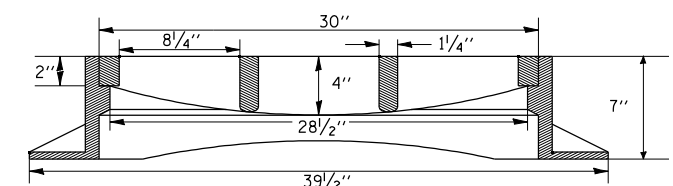
CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO.2 SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) REINFORCEMENT BARS, AND REMOVAL OF ANY EXCESS STORM SEWER..

NEENAH - R-3461 OR EQUIVALENT



SEC. A-A



SEC. B-B

REVISED - 10-13-11

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

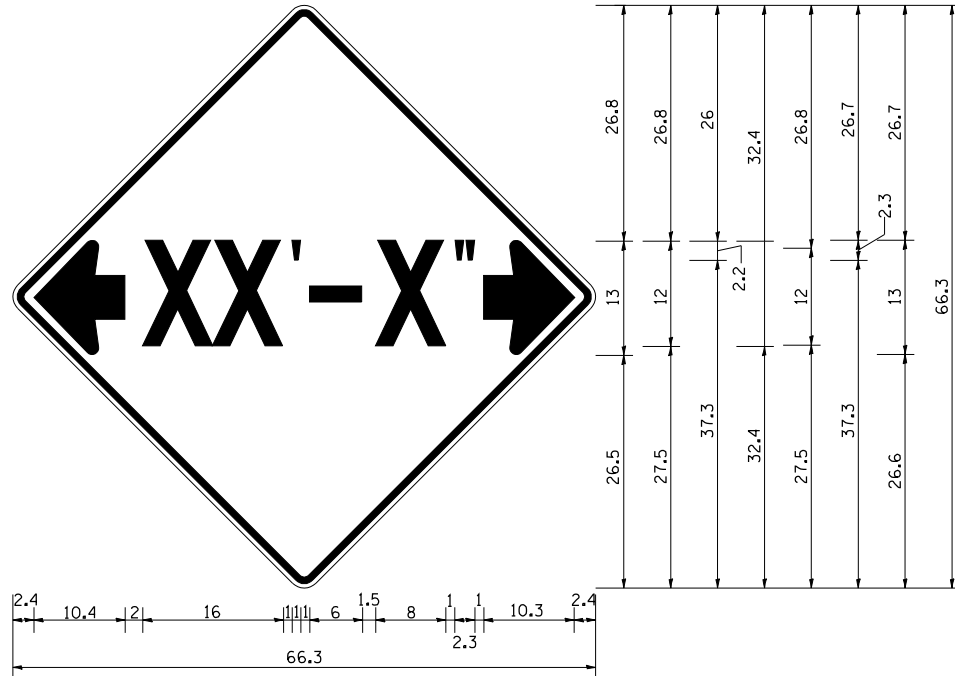
REGION 2 / DISTRICT 2 STANDARD

SCALE: 102.3636 "/ IN. SHEET NO. 2 OF 12 SHEETS STA. TO STA.

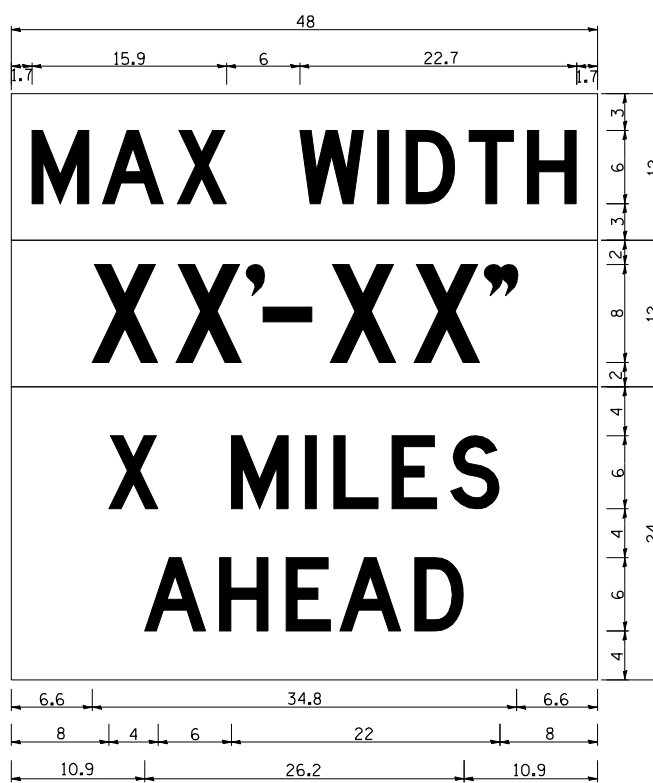
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	150
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E08	

PLOT DATE = 8/5/2013

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

 No border, Black on Orange;
 [XX'-XX''] D;

 No border, Black on White;
 [X MILES] D; [AHEAD] D;

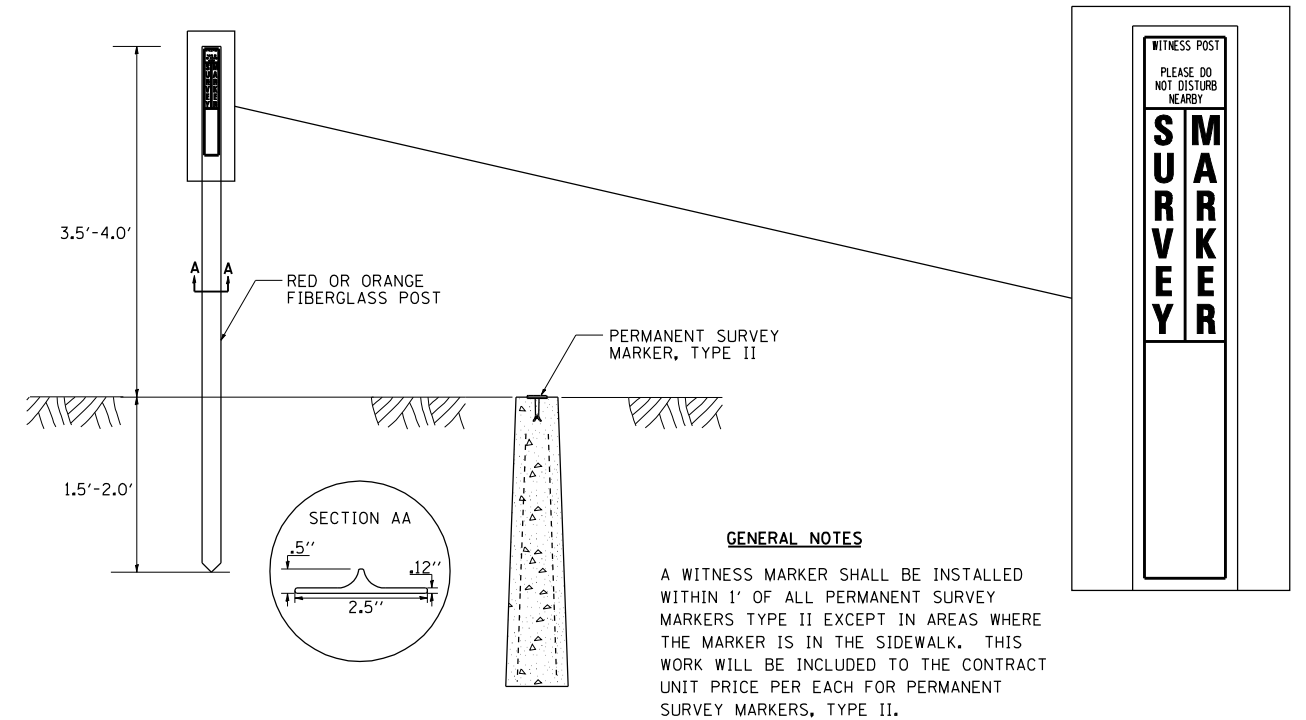
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

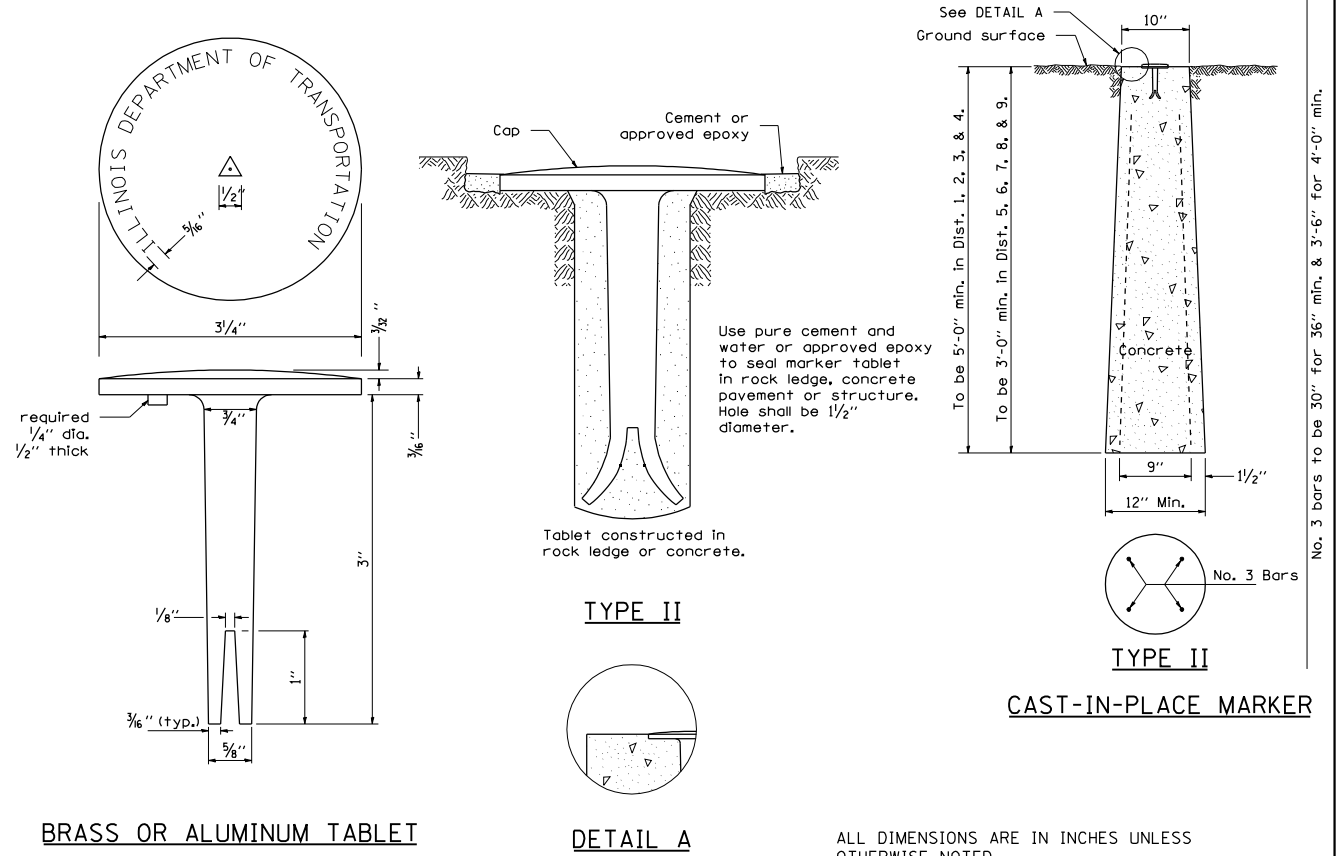
PLOT DATE = 8/5/2013

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



GENERAL NOTES
 A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

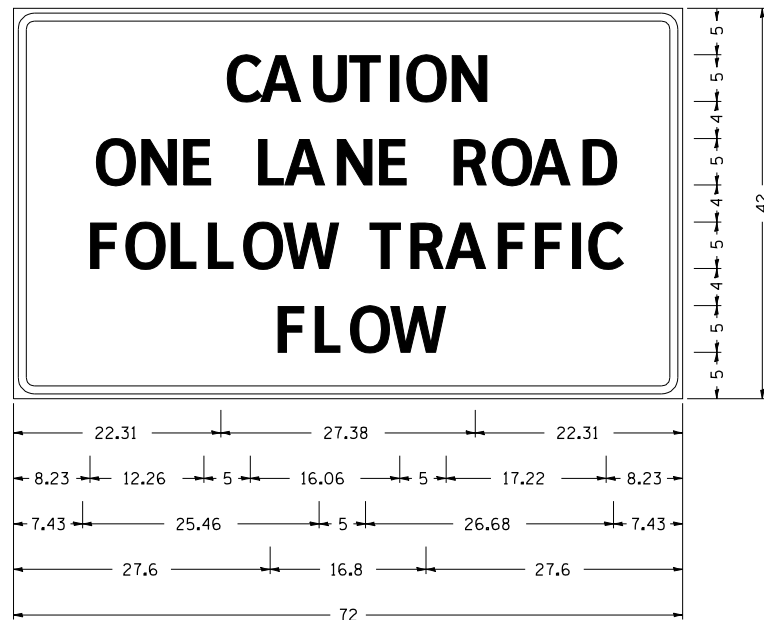
PERMANENT SURVEY MARKERS, TYPE II



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		308	103BR-4	JO DAVIESS	159	151
REVISED -		CONTRACT NO. 64E08				
REVISED -		SCALE: 102.3636 "/>				

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting :
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04													
5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05										
5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23									
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

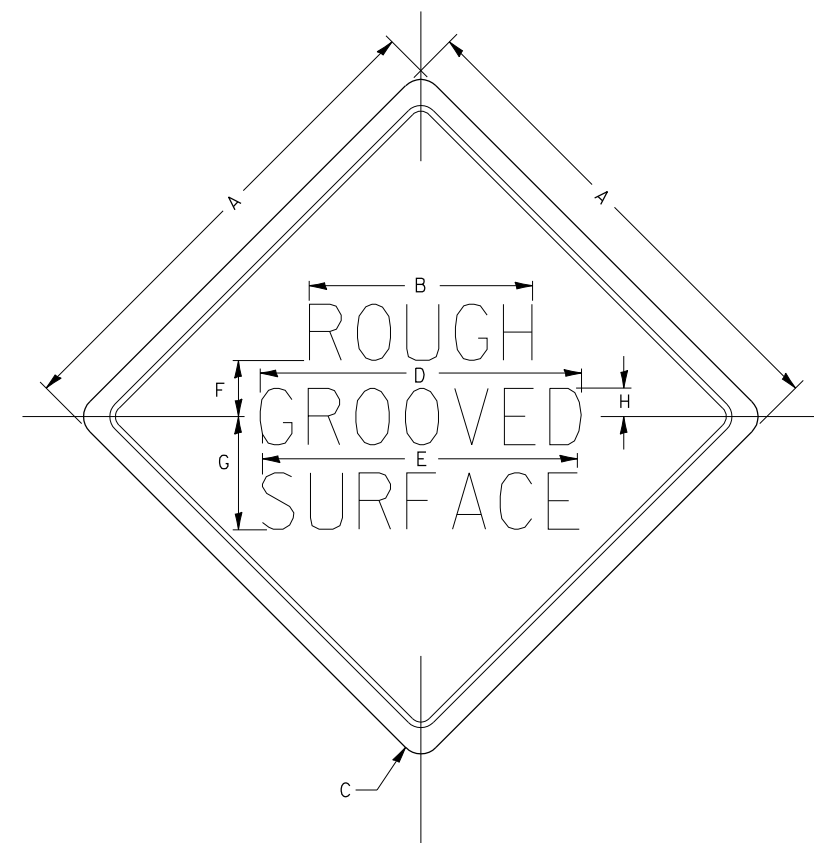
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-14-11

PLOT DATE = 8/5/2013

ROUGH GROOVED SURFACE SIGN

ILLINOIS STANDARD W8-I107
 SIGN PANEL TYPE 1



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

GENERAL NOTES

SIGN PANELS AND FACE MATERIALS SHALL BE ACCORDING TO SECTION 720 OF THE STANDARD SPECIFICATIONS

METAL POSTS SHALL BE IN ACCORDANCE WITH STD. 720011.

ALL MOUNTING HARDWARE SHALL BE ALUMINUM, STAINLESS STEEL, ZINC OR CADMIUM PLATED STEEL AND SHALL BE INCLUDED TO THE COST OF THE INSTALLATION.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

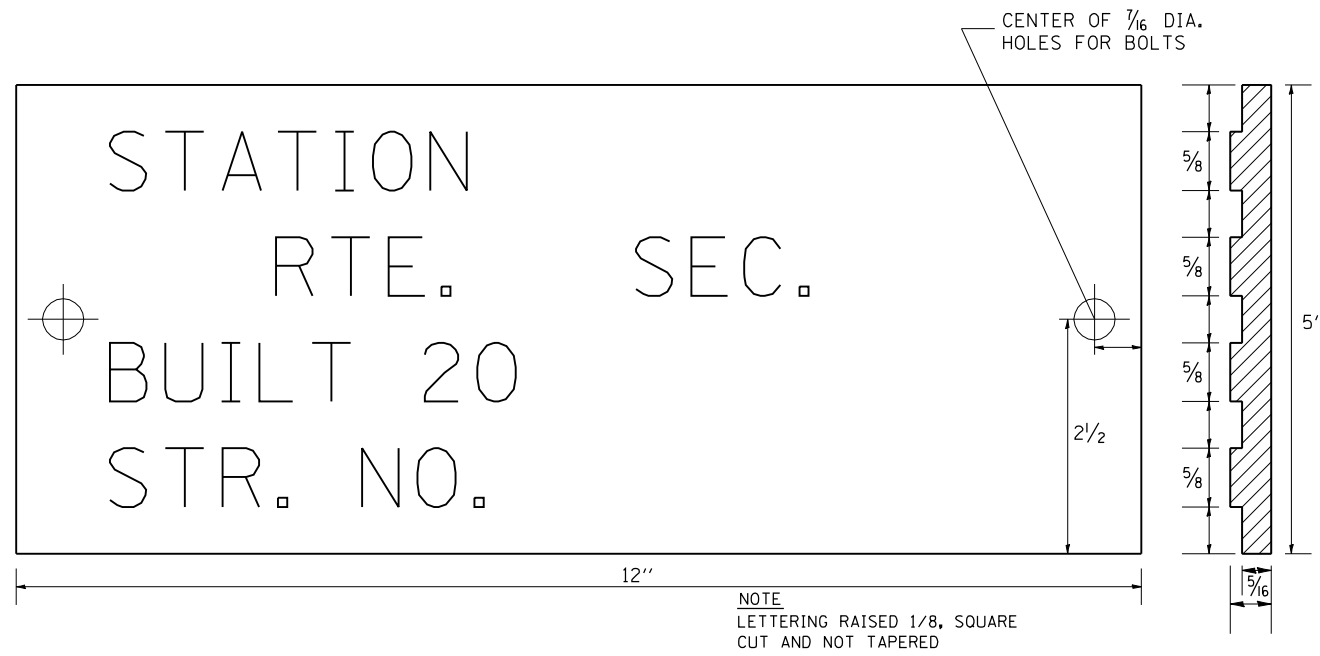
SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48x48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
48x48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES.

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		308	103BR-4	JO DAVIESS	159	152
REVISED -		CONTRACT NO. 64E08				
REVISED -		SCALE: 1/8" = 1'-0"	SHEET NO. 4 OF 12 SHEETS		STA.	TO STA.

NAME PLATE FOR RETAINING WALL



DESIGNERS NOTE

NAME PLATES SHALL BE FURNISHED & INSTALLED ACCORDING TO SECTION 515 OF THE STANDARD SPECIFICATIONS, EXCEPT 2 BOLTS SHALL BE USE TO FASTEN THE PLATE TO THE RETAINING WALL.

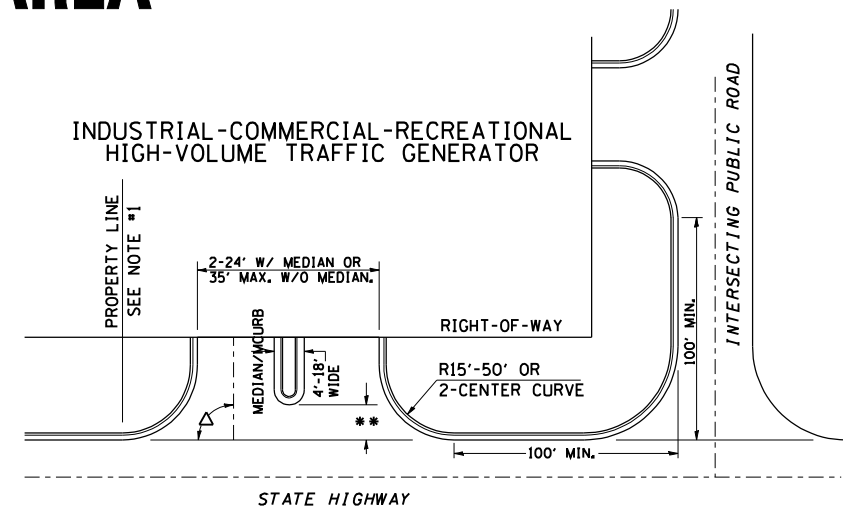
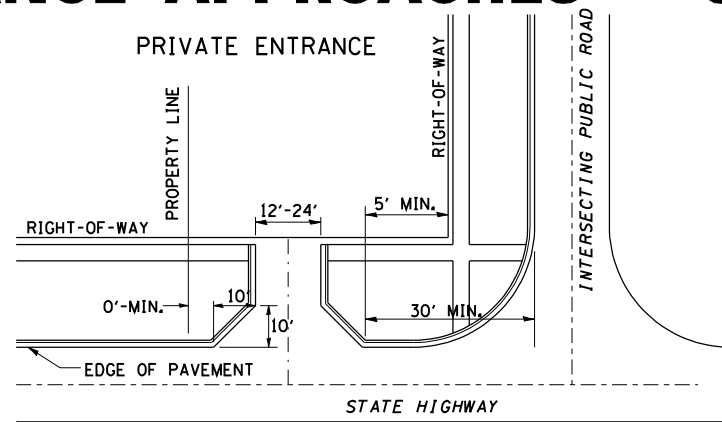
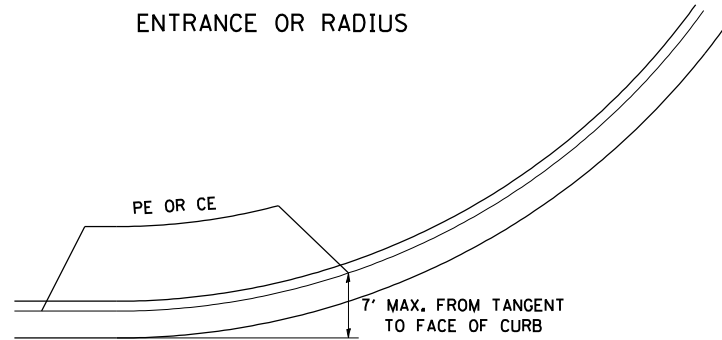
INCLUDE A PAY ITEM FOR NAME PLATES.

REVISED - 5-27-09

PLOT DATE = 8/5/2013

REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		308	103BR-4	JO DAVIESS	159	152A
REVISED -		CONTRACT NO. 64E08				
REVISED -		SCALE: 102.3636' = 1" SHEET NO. 5 OF 12 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

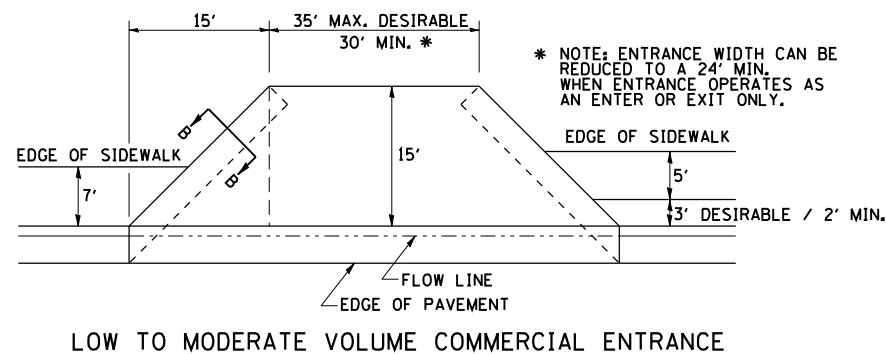
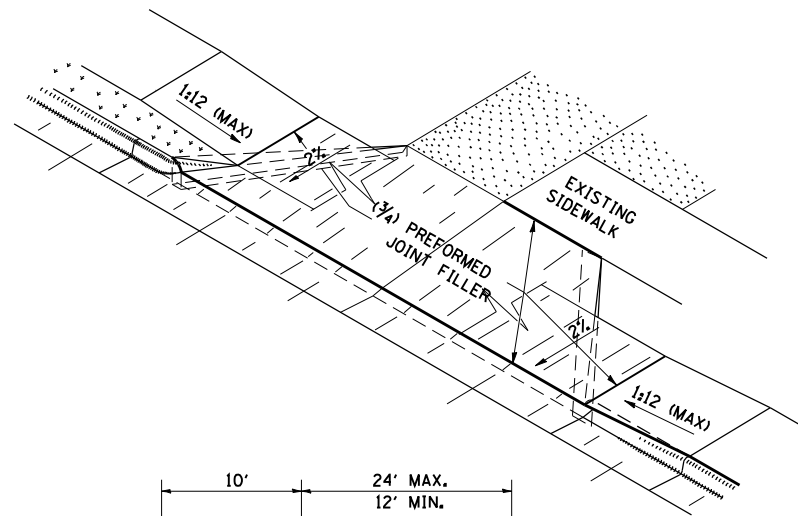
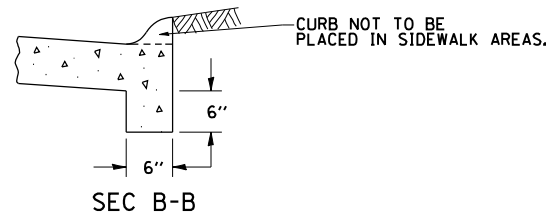
ENTRANCE APPROACHES – URBAN AREA



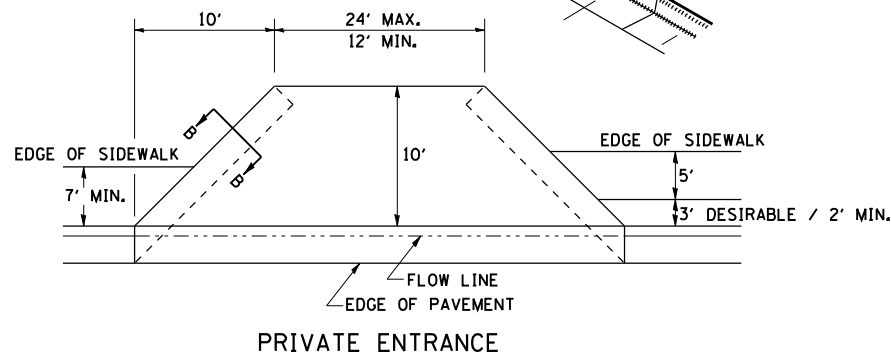
A MINIMUM OF 440 FEET SHALL BE MAINTAINED BETWEEN CENTER LINES OF ADJACENT DRIVEWAYS.
 Δ 90° DESIRABLE, 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS.
 60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.

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

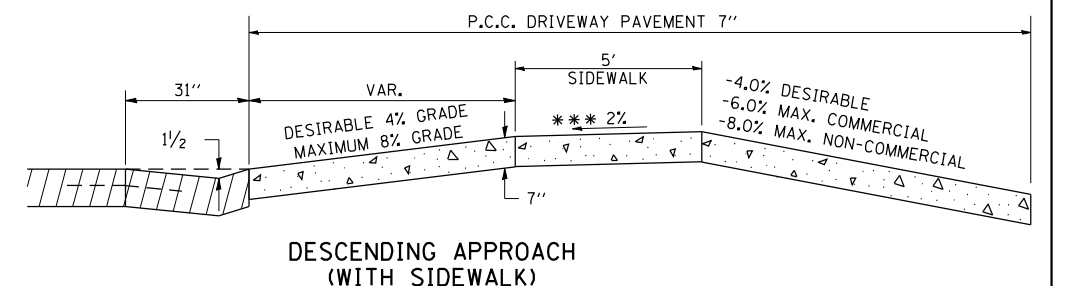
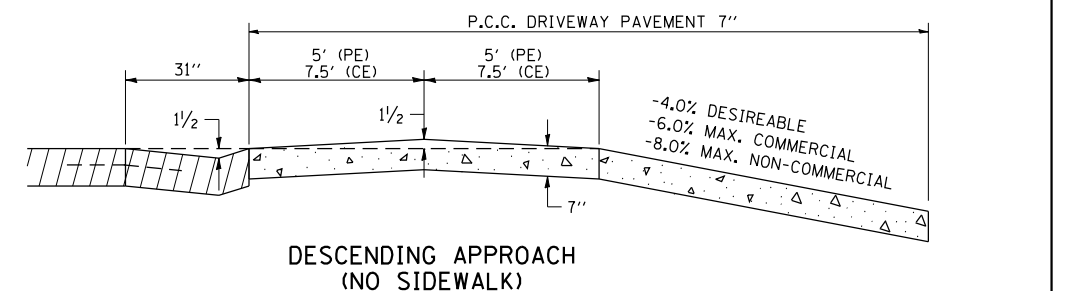
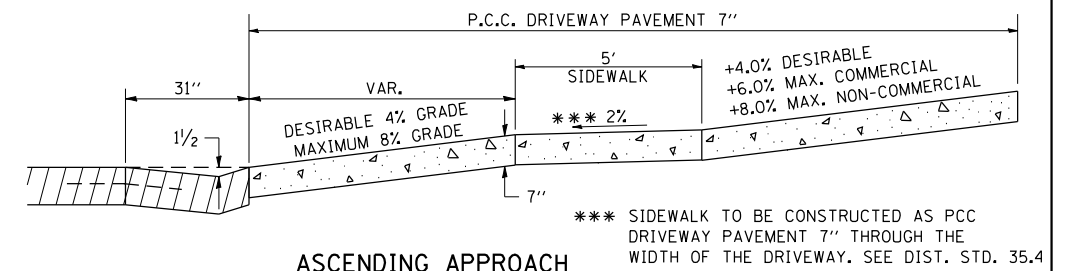
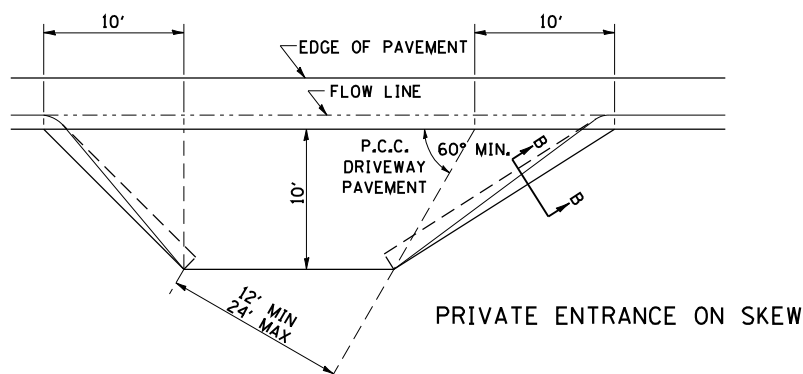
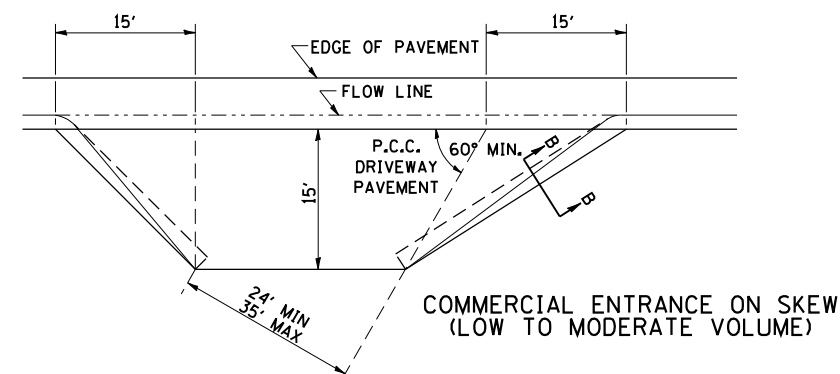
** 4'-10" IF HIGHWAY CURBED.
 AT EDGE OF SHOULDER IF HIGHWAY UNCURBED.



* NOTE: ENTRANCE WIDTH CAN BE REDUCED TO A 24' MIN. WHEN ENTRANCE OPERATES AS AN ENTER OR EXIT ONLY.



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



FILE NAME = L:\Jobs\1DOT-D-2\7308\01\CADD\CADD Sheets	USER NAME = gjameson VZ64E08-SHT-D2-STANDARDS.dgn	DESIGNED - DRAWN -	REVISED - 12-07-10 REVISED -
PLOT SCALE = 1/8" = 1'-0"	PLOT DATE = 8/5/2013	CHECKED - DATE -	REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 6 OF 12 SHEETS STA. TO STA.

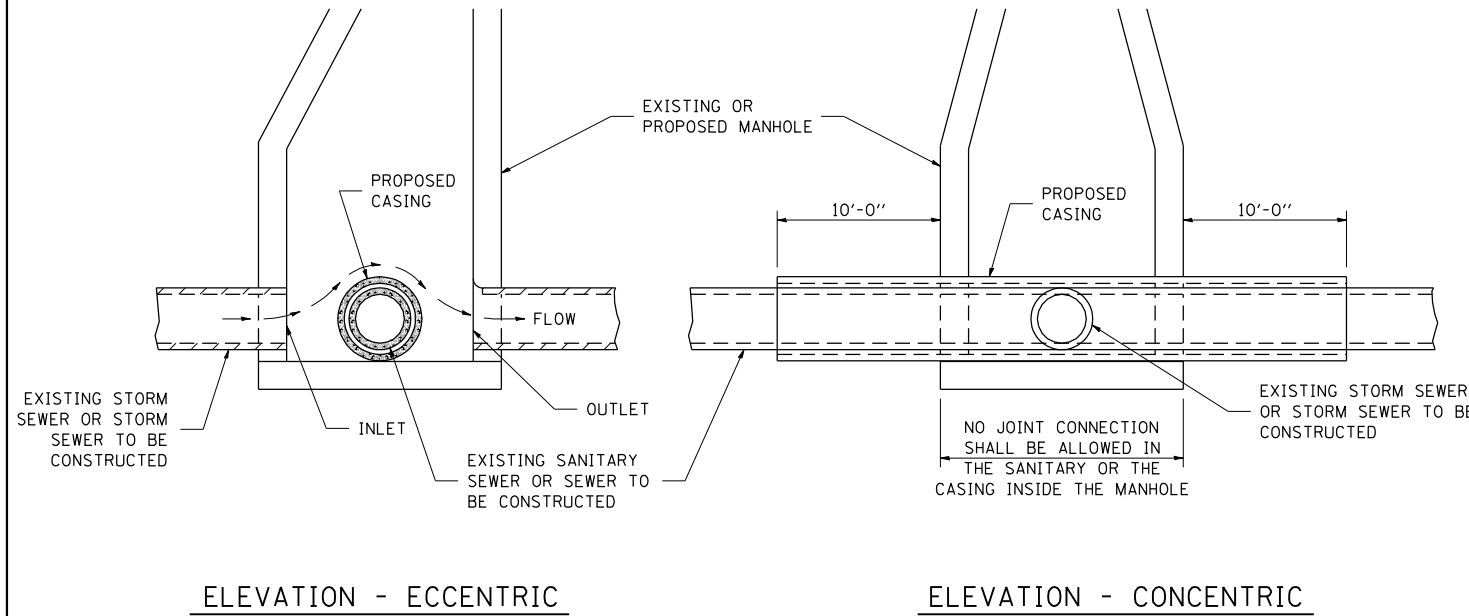
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	153
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E08	

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.

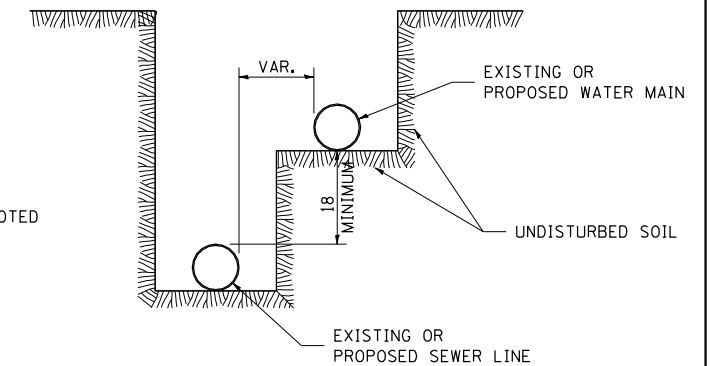
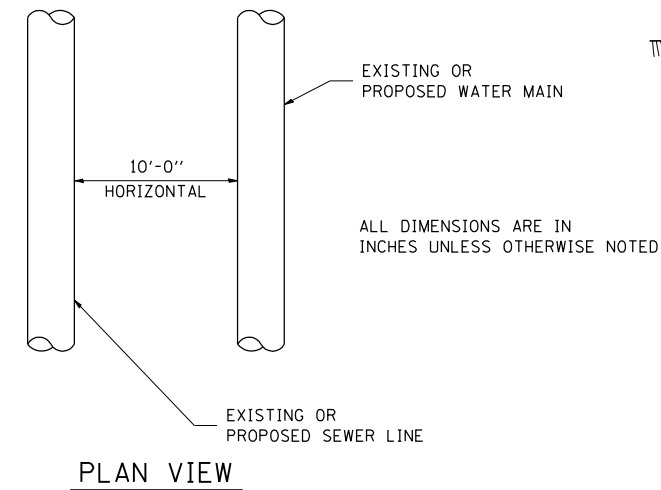
WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10'-0" FROM EXISTING WATER (OR SEWER) DETAILS BELOW SHALL APPLY.



AT GRADE CROSSING OF SANITARY AND STORM SEWER

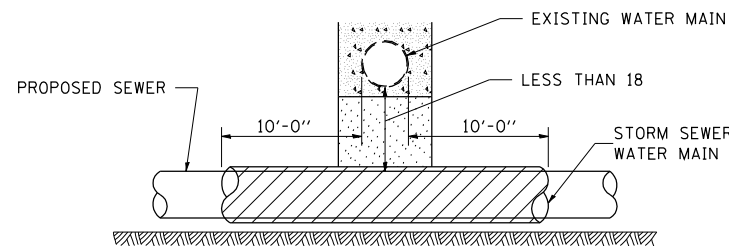
CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

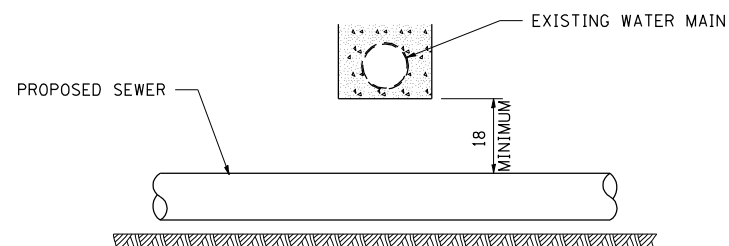


WATER AND SEWER HORIZONTAL SEPARATION REQUIREMENTS

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



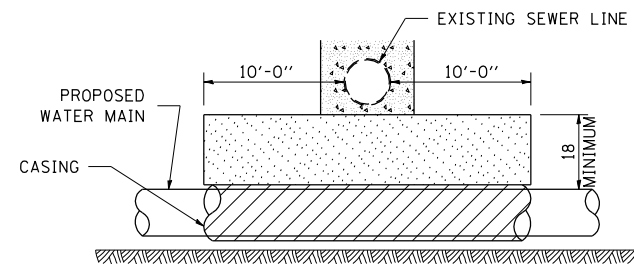
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

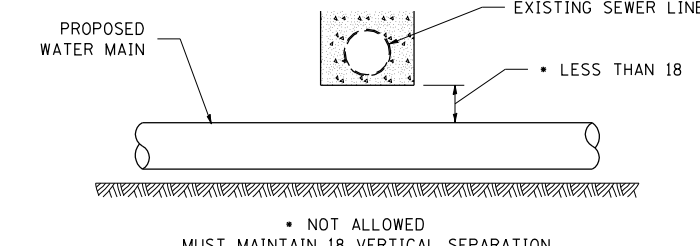
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

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

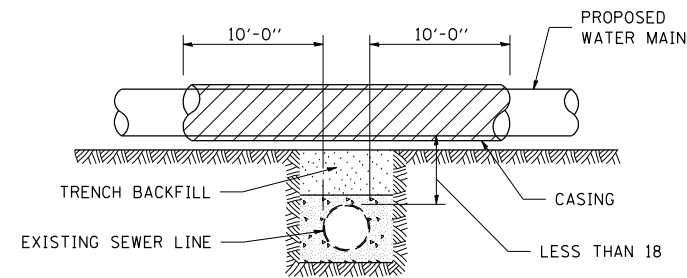
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY



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

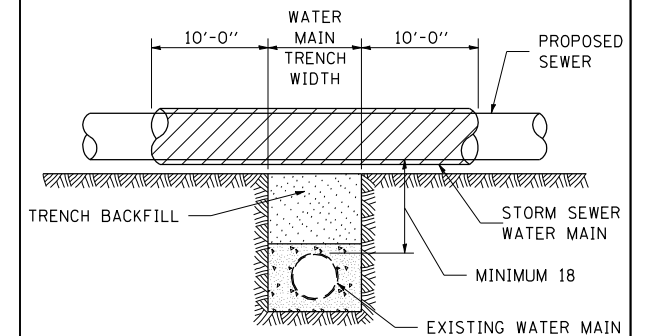


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLEING 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

FILE NAME =	USER NAME = gjameson	DESIGNED -	REVISED - 10-17-11
L:\Jobs\10107-D-2\7308\01\CADD\CADD Sheets\Z64E08-SHT-D2-STANDARDS.dgn		DRAWN -	REVISED -
PLOT SCALE = 102.3636 / IN.		CHECKED -	REVISED -
PLOT DATE = 8/5/2013		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

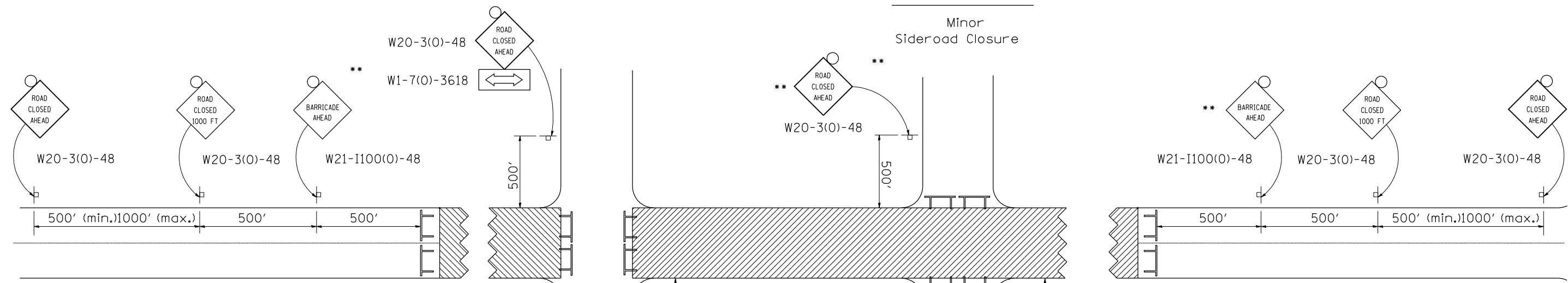
SCALE: SHEET NO. 7 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	154
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 64E08	

TRAFFIC CONTROL FOR ROAD CLOSURE

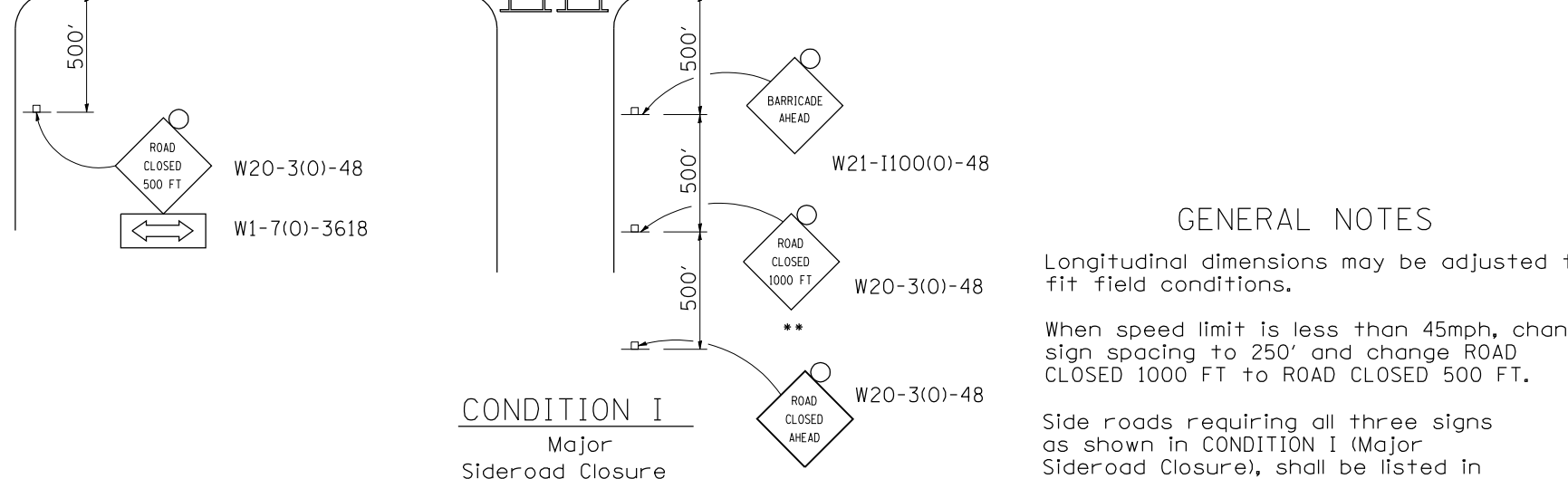
CONDITION II

Minor Sideroad Closure

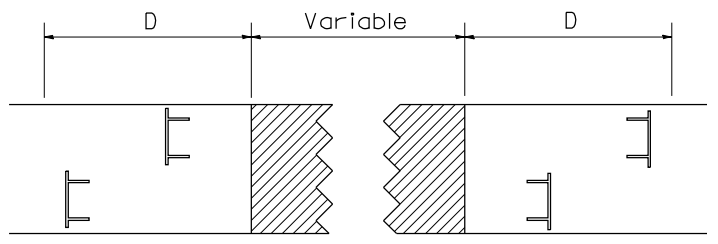


CONDITION I

Major Sideroad Closure






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.

SYMBOLS

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

GENERAL NOTES

- Longitudinal dimensions may be adjusted to fit field conditions.
- When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.
- Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

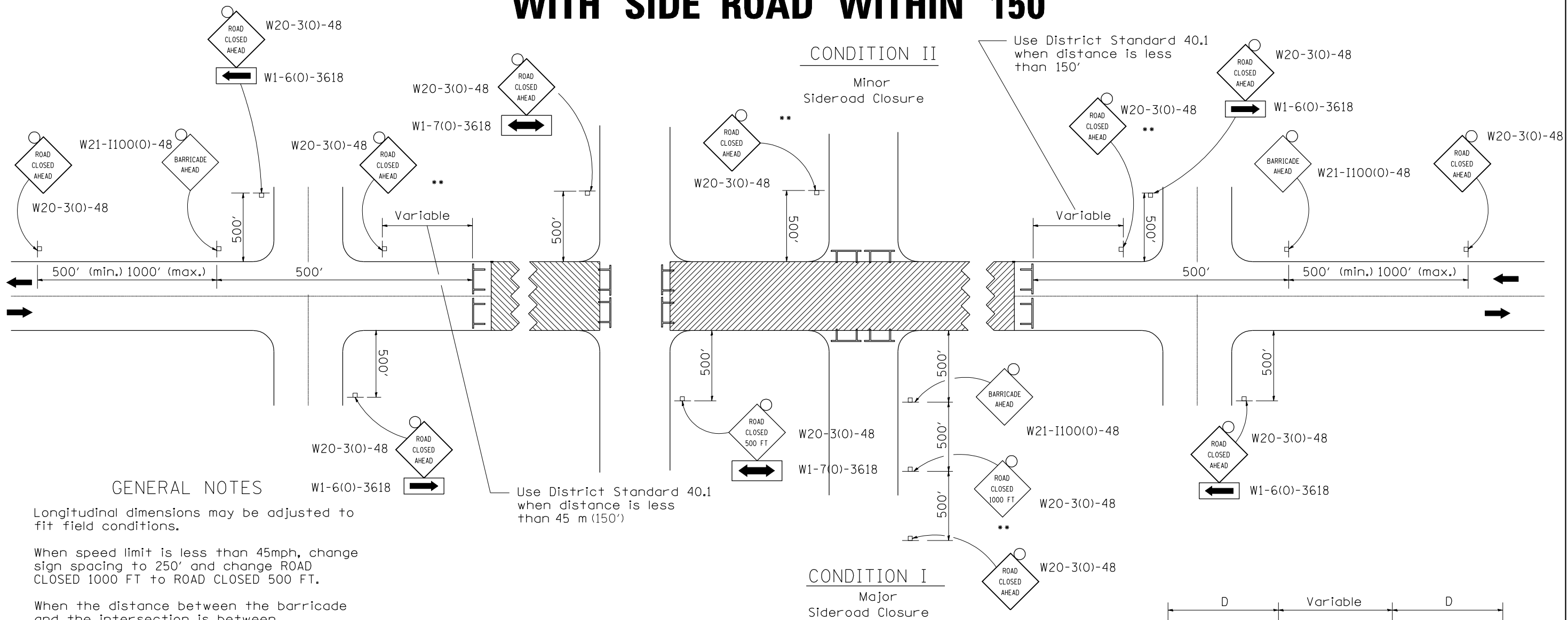
** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME =	USER NAME = gjameson	DESIGNED -	REVISED - 10-17-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L:\Jobs\DOT-D-2\7308.01\CADD\CADD Shee	\Z64E08-SHT-D2.STANDARDS.dgn	DRAWN -	REVISED -			308	103BR-4	JO DAVIESS	159	155	
	PLOT SCALE = 1/8" = 1' IN.	CHECKED -	REVISED -			CONTRACT NO. 64E08					
	PLOT DATE = 8/5/2013	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TRAFFIC CONTROL FOR ROAD CLOSURE WITH SIDE ROAD WITHIN 150'



GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

When the distance between the barricade and the intersection is between 1500' and 2000', the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 2000', an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.

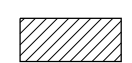


Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown above in Road Closed to thru traffic.

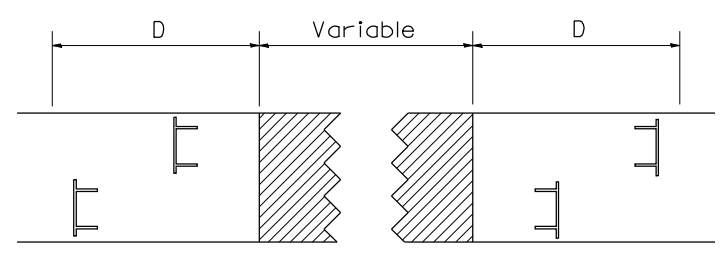
Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

Use District Standard 40.1 when distance is less than 45 m (150')

SYMBOLS

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

All dimensions are in inches unless otherwise shown.

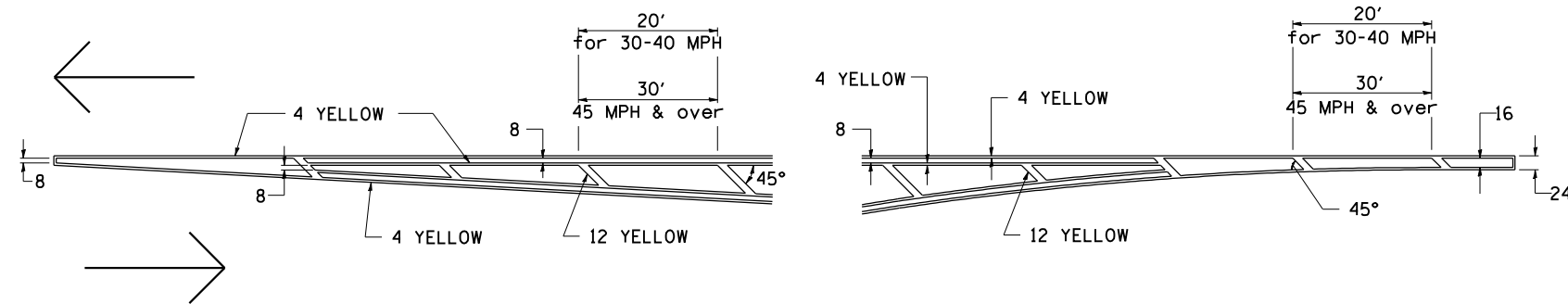


**TYPICAL APPLICATION
FOR ROAD CLOSURE
WITH SIDE ROAD WITHIN
150' OF CLOSURE**

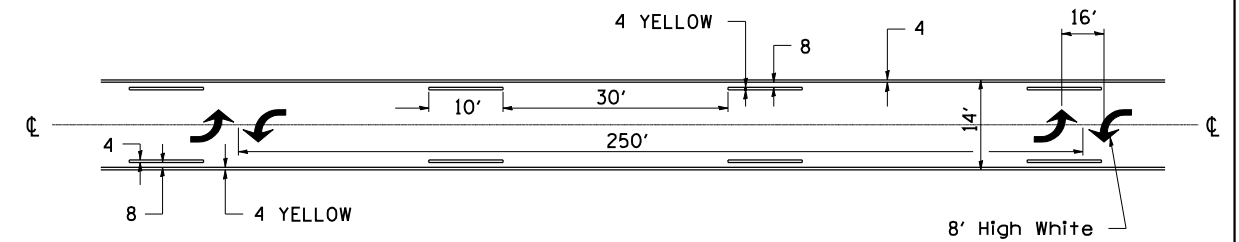
FILE NAME =	USER NAME = gjameson	DESIGNED -	REVISED - 10-17-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L:\Jobs\1DOT-D-2\7308.01\CADD\CADD Sheets	1264E08-SHT-D2-STANDARDS.dgn	DRAWN -	REVISED -			308	103BR-4	JO DAVIESS	159	156	
	PLOT SCALE = 1/8" = 1' IN.	CHECKED -	REVISED -			CONTRACT NO. 64E08					
	PLOT DATE = 8/5/2013	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

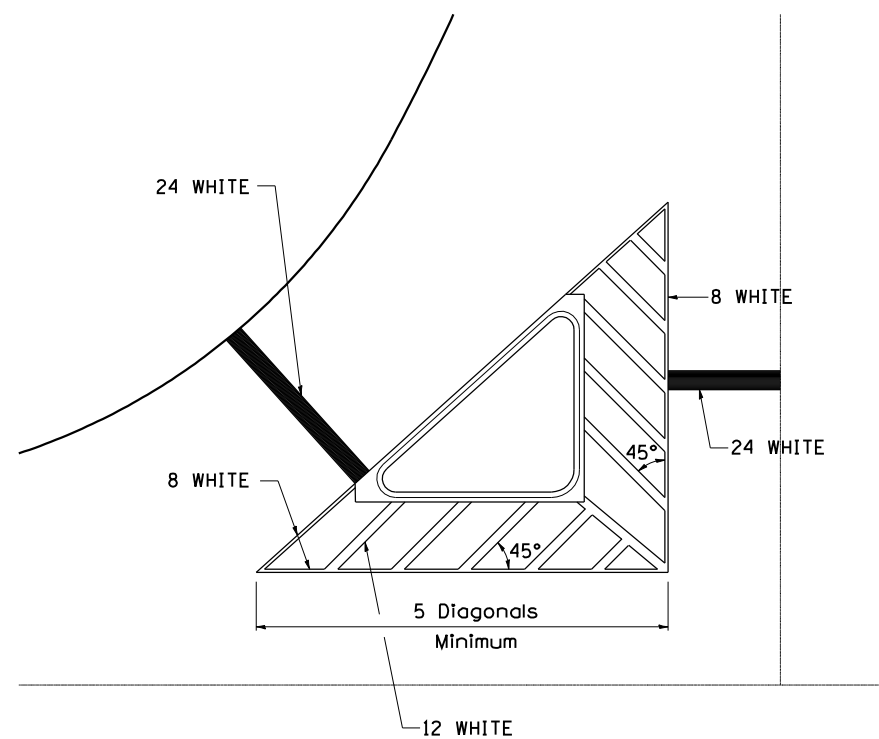


MEDIAN PAVEMENT MARKING

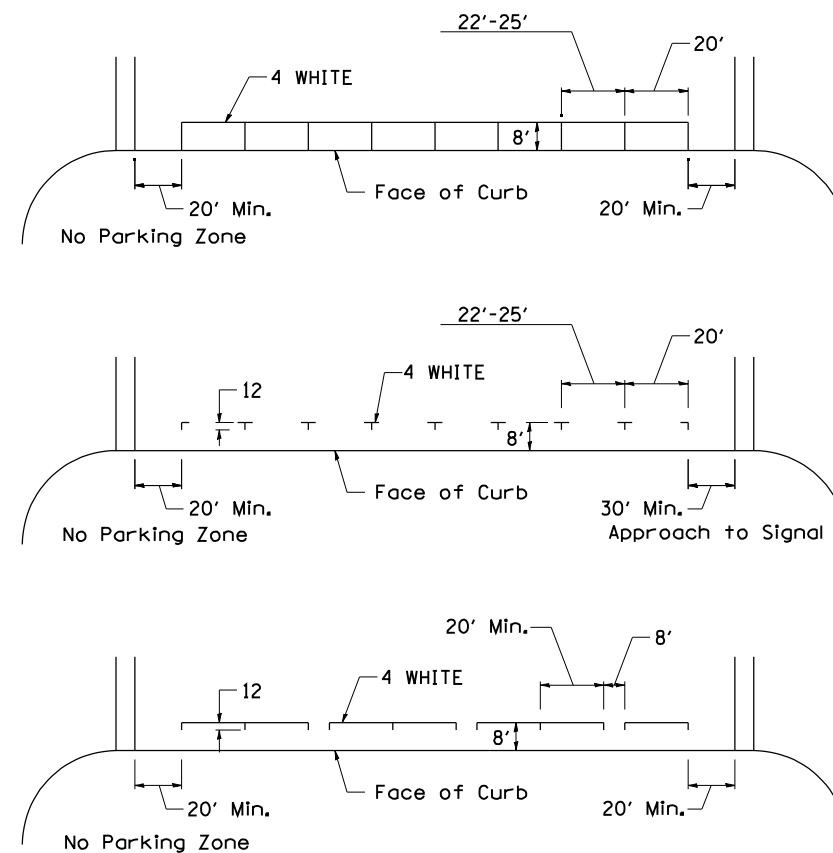


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

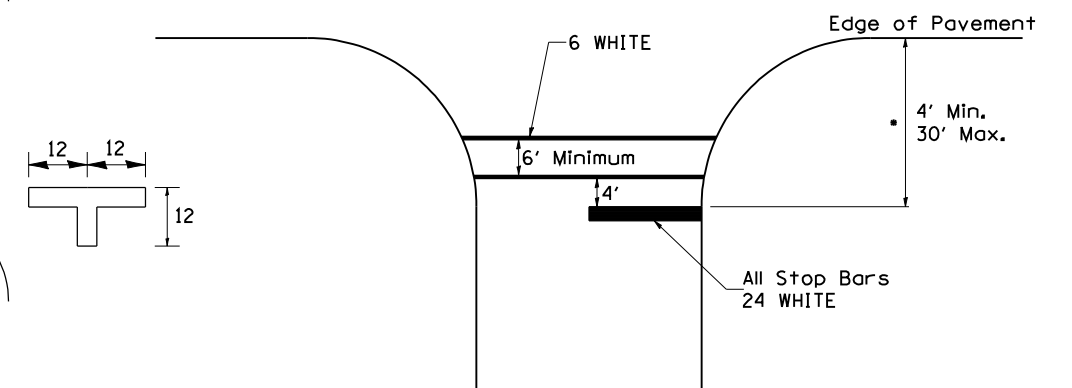


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

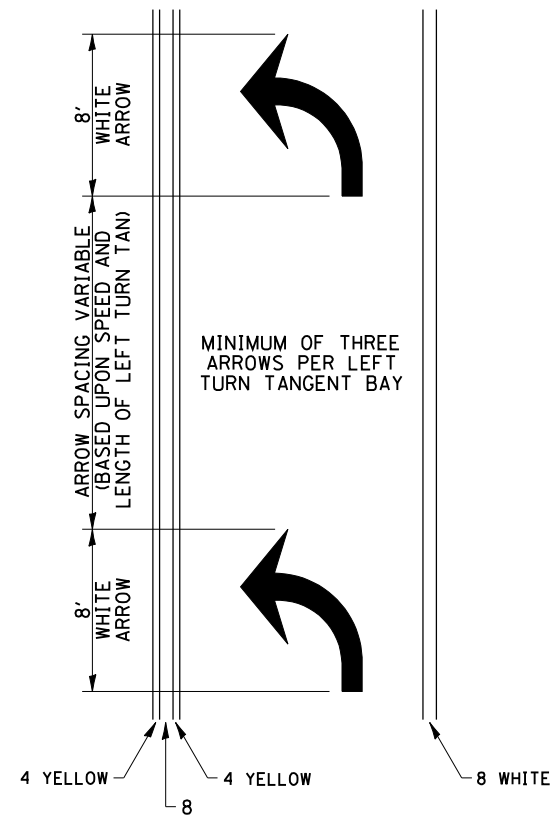


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = gjameson	DESIGNED -	REVISED - 3-05-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L:\Jobs\IDOT-D-2\7308.01\CADD\CADD Sheets	\Z64E08-SHT-D2.STANDARDS.dgn	DRAWN -	REVISED -			308	103BR-4	JO DAVIESS	159	157	
	PLOT SCALE = 1/8" = 1' IN.	CHECKED -	REVISED -			CONTRACT NO. 64E08					
	PLOT DATE = 8/5/2013	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS

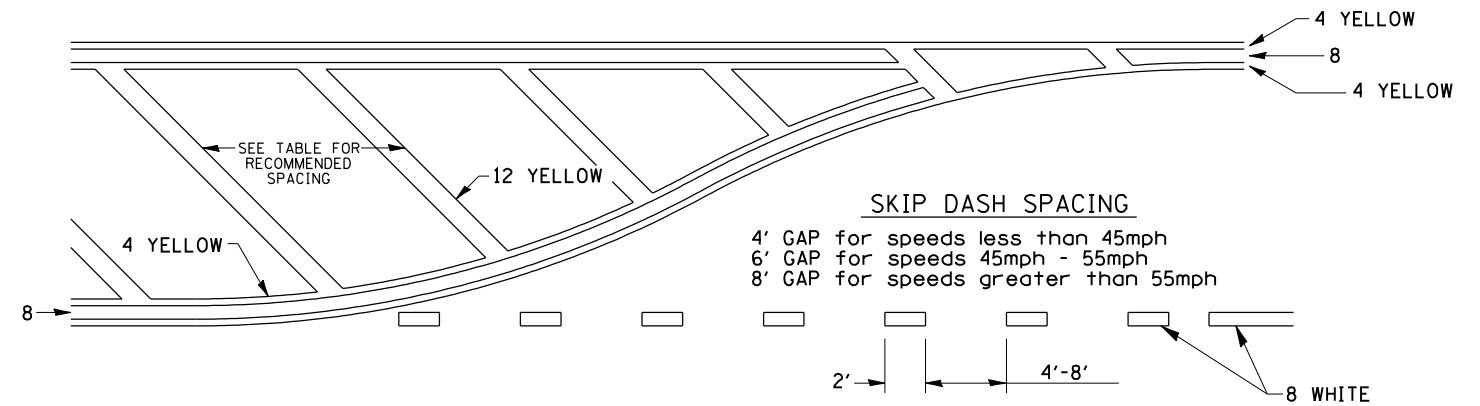
ARROW LAYOUT



- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

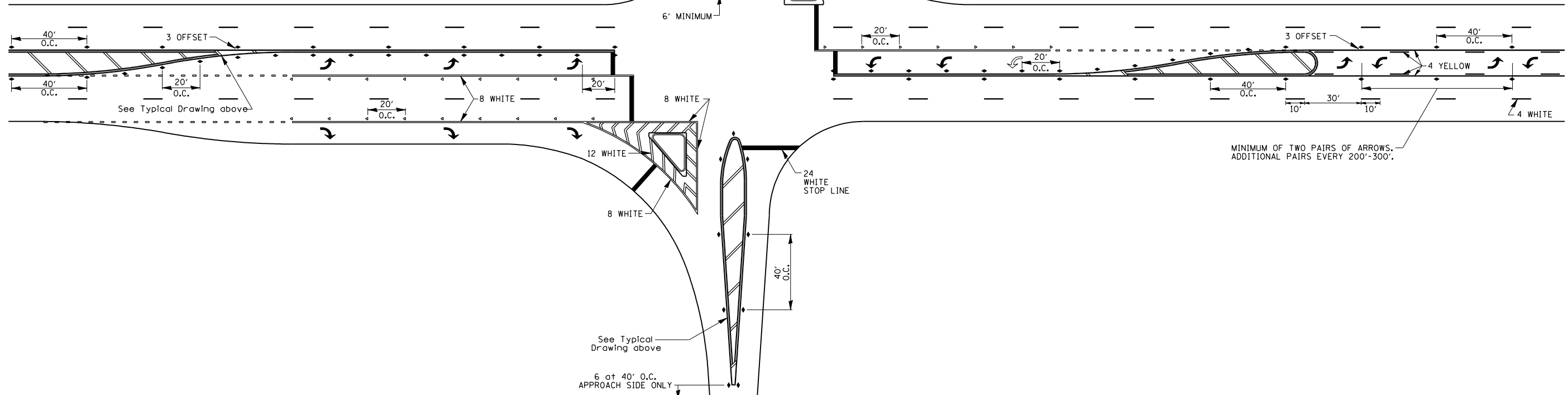
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

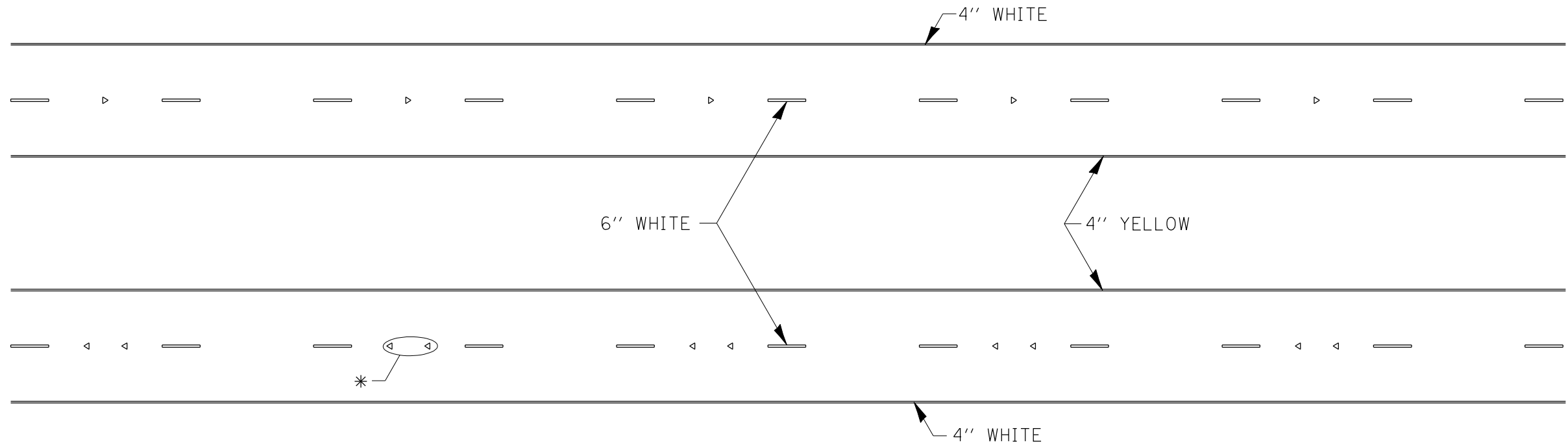
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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.



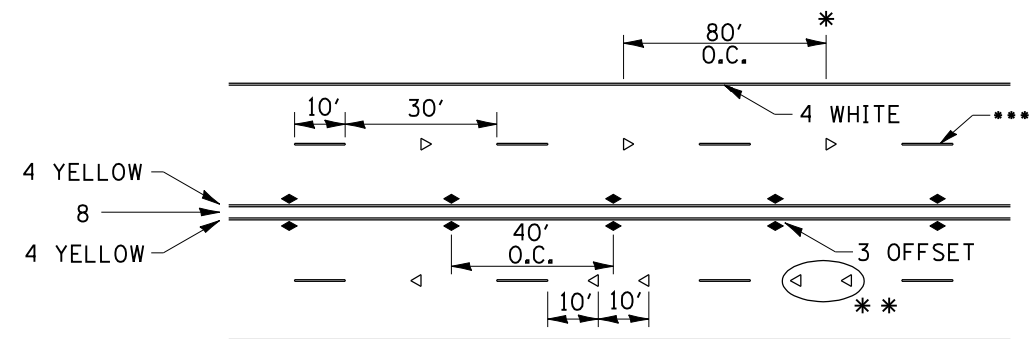
FILE NAME =	USER NAME = gjameson	DESIGNED -	REVISED - 3-05-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L:\Jobs\1DOT-D-2\7308.01\CADD\CADD Sheets	\Z64E08-SHT-D2-STANDARDS.dgn	DRAWN -	REVISED -			308	103BR-4	JO DAVIESS	159	158	
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -			CONTRACT NO. 64E08					
	PLOT DATE = 8/5/2013	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED

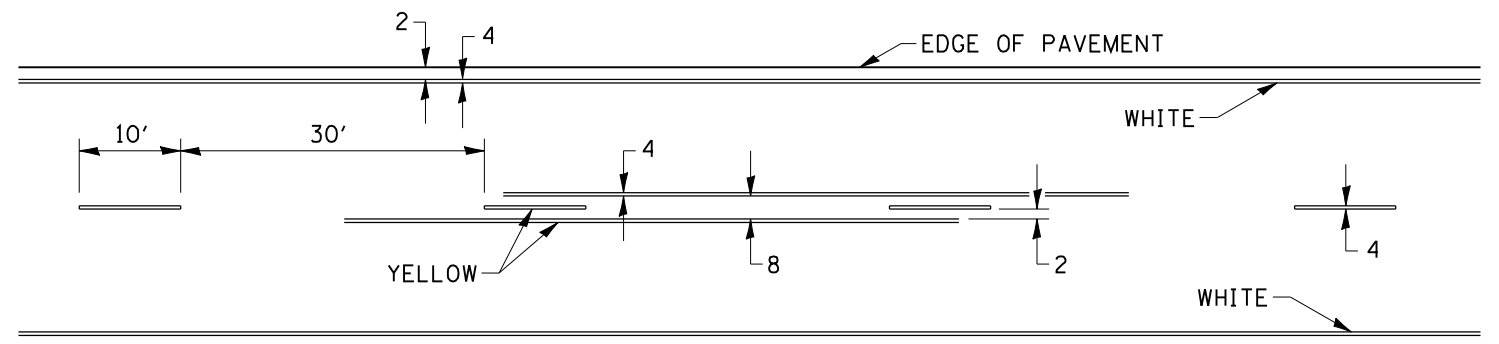


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT \geq 20,000
- CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE SPEED LIMIT 40 MPH AND OVER USE 6" LINE

MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

FILE NAME =	USER NAME = gjameson	DESIGNED -	REVISED - 11-28-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L:\Jobs\1DOT-D-2\7308.01\CADD\CADD Shee	\Z64E08-SHT-D2-STANDARDS.dgn	DRAWN -	REVISED -			308	103BR-4	JO DAVIESS	159	159	
	PLOT SCALE = 102.3636' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E08					
	PLOT DATE = 8/5/2013	DATE -	REVISED -			SCALE:	SHEET NO. 12 OF 12 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT